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**PERMIT VIC/L21
OFFSHORE GIPPSLAND BASIN
VICTORIA
AUSTRALIA**

**PATRICIA-2
WELL COMPLETION REPORT
BASIC DATA
VOLUME 1**

Prepared by:
Ross Tolliday
October, 2002

CONFIDENTIAL

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Exploration Manager

Date:


18 June 2003

CONFIDENTIAL

**PATRICIA-2
 BASIC DATA REPORT
 Volume 1A**

TABLE OF CONTENTS

WELL SUMMARY CARD – PATRICIA-2	iii
1.0 WELL SUMMARY	1
1.1 OPERATIONAL SUMMARY	1
1.2 CASING	2
2.0 SAMPLING	2
2.1 DITCH CUTTINGS	2
2.2 SIDEWALL CORES	3
2.3 CONVENTIONAL CORES	3
2.4 FORMATION FLUIDS	3
2.5 WELL TESTING	4
3.0 GEOLOGY	5
3.1 GEOLOGICAL SUMMARY	5
3.2 BIOSTRATIGRAPHY	10
4.0 HYDROCARBON SHOWS	11
4.1 OIL FLUORESCENCE SHOWS	11
4.2 GAS SHOWS	11
5.0 LOGGING AND SURVEYS	12
5.1 MUD LOGS	12
5.2 WIRELINE LOGS	12
5.3 WIRELINE FORMATION TESTS	12
5.4 VELOCITY SURVEY	12
5.5 FEWD	12
5.6 WELLHEAD LOCATION and TRAJECTORY	13
5.7 SITE SURVEY	13
6.0 SAMPLE ANALYSES	14
6.1 OIL ANALYSES	14
6.2 GAS ANALYSES	14
6.3 WATER ANALYSES	14

List of Figures

- Figure 1 Well Location Map
Figure 2 Completion Schematic

List of Tables

- Table 1 Casing Summary
Table 2 Cuttings Samples – Interval Summary
Table 3 Cuttings Sample Distribution Summary
Table 4 Summary of Drilling Gas
Table 5 FEWD Log Summary
Table 6 Mud Data
Table 7 Summary of Gas Analysis

List of Appendices

- Appendix 1 Rig Positioning Report – Thales
Appendix 2 Drilling Operations End of Well Report - OMV
Appendix 3 Cuttings Description Report – OMV
Appendix 4 Final Mudlogging Report – Baker Hughes Inteq
Appendix 5 Gas Analysis Report-Core Laboratories
Appendix 6 DST - Well Test Data Report - Expro
Appendix 7 Daily Geological Reports – OMV
Appendix 8 LWD Operations Report - Sperry
Appendix 9 Directional Drilling Report - Sperry
Appendix 10 Site Survey Report - Thales

List of Enclosures

- Enclosure 1 Formation Evaluation Log – Baker Hughes Inteq
Enclosure 2 Drilling Data Log – Baker Hughes Inteq
Enclosure 3 Pressure Evaluation Log – Baker Hughes Inteq
Enclosure 4 Pressure Summary Plot – Baker Hughes Inteq



LOCATION MAP

GIPPSLAND BASIN

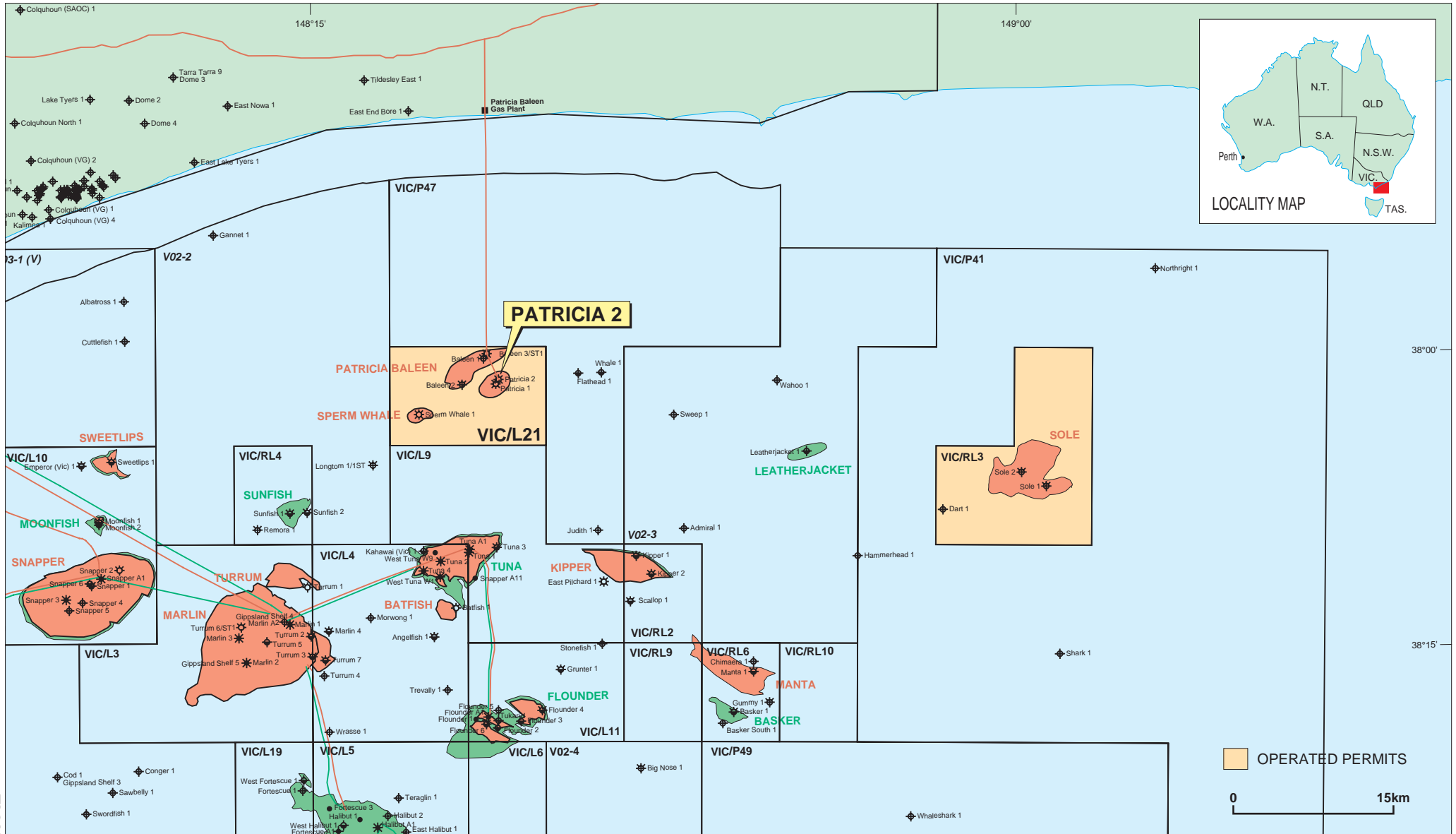


FIGURE 1

WELL SUMMARY CARD – PATRICIA-2

WELL	PATRICIA-2	SPUD	16:00 hrs, 20 th June, 2002
WELL TYPE	Horizontal Development	TD REACHED	01:00 hrs, 28 th June, 2002
BLOCK/LICENCE	VIC/L21	RIG RELEASE	00:45 hrs, 9 th July, 2002
RIG	Ocean Bounty	COMPLETION	Excluder 2000 sand screen from 896.9 m (-701.0 mTVDSS) to 1384.51 m (-701.0 mTVDSS)
WATER DEPTH	52.5 m (LAT)	STATUS	Suspended Gas Production Well
RT	25.0 m above LAT	TRAP TYPE	Structural Anticline
TD	1385.0 m (-676.2 mTVDSS)	OPERATOR	Basin Oil Pty. Ltd.

SURFACE LATITUDE	38° 01' 39.95" S	SURFACE Y coord	5 790 098.7 mN
SURFACE LONGITUDE	148° 26' 57.78" E	SURFACE X coord	627 207.7 mE
OBJECTIVE (heel)	5 789 889.1 mN	OBJECTIVE (toe)	5 789 566.5 mN
Y co-ord		Y co-ord	
OBJECTIVE (heel)	626 942.6 mE	OBJECTIVE (toe)	626 533.0 mE
X co-ord		X coord	
SEISMIC REFERENCE	Surface: Inline 403, Xline 3688 Objective: Inline 417, Xline 3552 (Baleen 3D 2000)	Spheroid/Datum	ANS/AGD 66
		ZONE	AMG Zone 55 (CM 147° East)

REMARKS

Patricia-2 was drilled as a horizontal gas development well located within the Patricia gas field in permit VIC/L21. The main objectives of the well were to drill horizontally through the reservoir and complete a 500 m production interval. The well was tested over the interval 896.9 mMDRT to 1385.0 mMDRT and flowed 28.2 MMscf/d gas.

HOLE SIZE mm (inch)	CASING SIZE mm (inch)	SHOE DEPTH mMDRT (mTVDSS)	TYPE	LOT Sg (MWE)
914 (36)	762x508 (30x20)	111.5	X-52	N/A
444.5 (17 ½)	340 (13 3/8)	327.1 (-300.7)	K-55	1.73 (FIT)
311 (12 ¼)	244.5 (9 5/8)	872.4 (-675.9)	L-80	1.4 (FIT)
216 (8 ½)	168 (6 5/8)	1384.51 (-676.1)	Production liner (Excluder 2000 sand Screen)	N/A

MUD DATA			
LWD RUN	1	2	3
TYPE	Seawater/Hi vis	KCl/PHPA/GLYCOL	FLO-PRO
DENSITY (sg)	1.06	1.08	1.12
VISCOSITY(sec/qt)	100.0	54.0	60.0
FLUID LOSS(mptm)		5.6	4.8
PH		8.7	9.5
Rm (ohmm)		0.18 @ 21.0°C	0.10 @ 19.4°C
Rmf (ohmm)		0.12 @ 21.0°C	0.09 @ 19.4°C
Rmc (ohmm)		0.28 @ 21.0°C	0.06 @ 19.4°C
Chlorides (ppm)		35000	72000
KCl (%wt)		5.0	3.0
Glycol (%vol)		3.0	-

PERFORATIONS: Excluder 2000 sand Screens from 896.91mMDRT (676.3 mTVDSS) to 1385mMDRT (676.2 mTVDSS)

DRILL STEM TESTS			
DST	Flow rate	Choke mm (in)	GOR
1	28.2 MMscf/d Dry Gas	No choke, Max flow	N/A

NO CORES WERE CUT IN PATRICIA-2

NO WIRELINE LOGS WERE RUN IN PATRICIA-2

LWD LOGS

LOG TYPE	RUN	INTERVAL mMDRT	BHT °C , DATE, TIME	COMMENTS mm (inch)
DGR/EWRP4/DM/DDS	1	111.5 – 334.0	17, 21/6/02, 1432 hrs	444 (17 ½) hole
DGR/EWRP4/DM/DDS	2	334.0 – 884.0	53, 25/6/02, 1842 hrs	311(12 ¼) hole
DGR/EWRP4/SLD/CNP/PM	3	884.0 – 1385.0 (total depth)	47, 28/6/02, 1144 hrs	216 (8 ½) hole

1.0 WELL SUMMARY

1.1 OPERATIONAL SUMMARY

The semi-submersible Ocean Bounty was towed a short distance from the previous well, Baleen-3/ST1, to the Patricia-2 location. The rig arrived on location and dropped the first anchor (# 6) at 03:40 hrs, 20th June, 2002. After all anchors were run and tensioned, the well was spudded at 16:00 hrs on the 20th June, 2002.

The final Thales Geosolutions GPS surface rig position (Appendix 1) for Patricia-2 is

Datum:	AGD 66
Latitude:	38° 01' 39.95" S
Longitude:	148° 26' 57.78" E
Projection:	AMG Zone 55, (CM 147° E)
Easting:	627 207.7 mE
Northing:	5 790 098.7 mN

This position was 1.6 metres on a bearing of 304° (T) from the intended location. The final rig heading was 260° (T).

The final rig elevations were:

RT – SL:	25.0 m
Water Depth (LAT):	52.5 m (Note: MSL is approximately 0.6 m above LAT)
RT - Sea bed:	77.5 m

Patricia-2 was drilled as a horizontal gas development well and was located within the Patricia gas field in permit VIC/L21, which is approximately 285 Nautical Miles from Geelong and 140 Nautical Miles from Port Welshpool (Figure 1). The Patricia-2 surface location was NW of Patricia-1 and the final bottom hole (toe) location was SW of Patricia-1 (Figure 2).

The main objectives of the well were to drill horizontally through the reservoir and complete a 500.0 m production interval. The plan was to test the well and determine well deliverability, estimate initial reservoir pressures, acquire flowing pressure data and obtain representative gas samples. This was achieved.

After spudding, the 36" (914 mm) hole was drilled from the seabed at 77.5 mMDRT to 111.5 mMDRT where a 30"x20" (762 mm x 508 mm) conductor was run to 111.5 mMDRT and cemented. The 20" (508 mm) shoe track was drilled out and a 17 1/2" (444.5 mm) hole was drilled riser less from 111.5 mMDRT to 334.0 mMDRT. This section was drilled with seawater and hi vis mud sweeps with returns to the sea floor. The 13 3/8" (340 mm) casing was run with the shoe set at 327.0 mMDRT and then cemented. A production xmas tree was run and pressure tested successfully. The BOPs and marine riser were then run.

The 12 1/4" (311 mm) BHA was made up and run in the hole. New formation was drilled from 334.0 mMDRT to 337.0 mMDRT and a Formation Integrity Test (FIT) was performed to an equivalent mud weight of 1.73 sg. The 12 1/4" (311 mm) hole was then drilled and the well deviated from 337.0 mMDRT to 884.0 mMDRT (-676.2 mTVDSS) (section TD). The last survey taken at 884.0 mMDRT (-676.3 mTVDSS) was 85.2° with an azimuth of 229.0°. After a wiper trip and circulating the hole clean, the 9 5/8" (244.5 mm) casing was run and cemented with the casing shoe at 872.0

mMDRT (-675.9 mTVDSS). Next the 8 ½" (216 mm) drilling assembly was made up and run in the hole. The shoe and 3.0 m of new formation from 884.0 mMDRT to 887.0 mMDRT were then drilled. An FIT was performed up to an equivalent mud weight of 1.4 sg. The well was then drilled horizontally to a total depth of 1385.0 mMDRT (-676.2 mTVDSS), which was reached at 01:00 hrs, 28th June, 2002.

A 6 5/8" (168 mm) production liner consisting of Excluder 2000" sand screens and a 5" (127 mm) completion string were run and landed. The well was tested and a maximum flow of 28.2 MMscf/d was recorded. The well was suspended, anchors were pulled and the rig was released at 00:45 hrs, 9th July, 2002.

Further details are included in the Drilling Operations End of Well Report (Appendix 2).

1.2 CASING

Three casing strings and a production liner were run in the Patricia-2 well. The 30"x20" (762x508 mm) casing was set at 111.5 mMDRT on 20th June, 2002 after the 36" hole was drilled. The 17 ½" hole was drilled to 334.0 mMDRT (-307.5 mTVDSS). The 13 3/8" (340 mm) casing was set at 327.0 mMDRT (-300.6 mTVDSS) on 21st June, 2002 and the BOPs run and landed on 22nd June. The hole was drilled and deviated in the next 12 ¼" (311 mm) section to a depth of 884.0 mMDRT (-676.3 mTVDSS). The 9 5/8" (244.5 mm) casing was landed at 872.0 mMDRT (-675.9 mTVDSS) on 26th June, 2002.

The well was completed at a total depth of 1385.0 mMDRT (-676.2 mTVDSS) with 6 5/8" (168 mm) production liner. The liner shoe was set at 1384.5 mMDRT (-676.2 mTVDSS) on 30th June, 2002.

A summary of casing run in the well is in Figure 3 and is shown below in Table 1.

Hole Size mm (inch)	Casing Size mm (inch)	Shoe Depth mMDRT (mTVDSS)	Type	LOT Sg(MWE)
914 (36)	762x508 (30x20)	111.5	X-52	N/A
444.5 (17 ½)	340 (13 3/8)	327.0 (-300.6)	K-55	1.73 (FIT)
311 (12 ¼)	244.5 (9 5/8)	872.0 (-676.3)	L-80	1.4 (FIT)
216 (8 ½)	168 (6 5/8)	1384.5 (-676.2)	Production liner (Excluder 2000 sand screen)	N/A

2.0 SAMPLING

2.1 DITCH CUTTINGS

Five sets of cuttings were collected over the intervals 334.0 mMDRT to 1385.0 mMDRT in Patricia-2 (see Table 2). The sample intervals were varied from 5 m to 10 m according to the drilling rate of penetration and section depths.

The cuttings were described and the report is included in Appendix 3.

TABLE 2 – Cuttings Samples Interval summary	
Depth (mMDRT)	Interval
334 - 340	6m
340 - 350	5m
350 - 360	10m
360 - 370	5m
370 - 400	10m
400 - 430	5m
430 - 500	10m
500 - 620	5m
620 - 640	10m
640 - 670	5m
670 - 850	10m
850 - 890	5m
890 - 1380	10m
1380 - 1385	5m

The cuttings were packed in boxes and distributed as per Table 3. For more details see the Final Mudlogging Report in Appendix 4.

TABLE 3 - Cuttings Sample Distribution Summary			
Sample type	No. Sets	Quantity per sample (g)	Distributed to:-
Washed & dried-samplex trays	1	5	OMV
Washed & dried-A	1	100	OMV
Washed & dried-B	1	100	AGSO
Washed & dried-C	1	100	VDNRE
Washed & dried-D	1	100	TRINITY
Washed & dried-E	1	100	SANTOS

2.2 SIDEWALL CORES

No sidewall cores were shot during Patricia-2.

2.3 CONVENTIONAL CORES

No conventional cores were taken in Patricia-2.

2.4 FORMATION FLUIDS

Three 20 Litre surface gas samples were recovered from the separator gas line during testing and were analysed by Core Laboratories in Perth. The compositional analyses report is in Appendix 5.

No wireline formation tests or samples were attempted in Patricia-2.

2.5 WELL TESTING

The Patricia-2 well was production-tested between 3rd - 5th July 2002 in order to clean the well up prior to suspension and to determine key well and reservoir parameters from the bottom hole pressure response. The actual test duration was 58 hours (excluding operational downtime and time waiting on daylight), as compared to the pre-test programme of 52 hours. A short initial flow and pressure build-up was conducted to determine the static reservoir pressure prior to testing.

The well was beaned-up to maximum choke to promote effective clean-up of the entire horizontal production interval. A coiled tubing-conveyed temperature logging pass was conducted to investigate any potential flow anomalies within the horizontal section.

At maximum choke, a maximum flow rate of 28.2 MMscf/d was measured (upstream choke pressure of 632 psia) through the test separator.

See Appendix 6 for DST report by Expro.

3.0 GEOLOGY

3.1 GEOLOGICAL SUMMARY

Patricia-2 penetrated a sedimentary sequence which included the following Gippsland Basin stratigraphy as described from cuttings:

Marine argillaceous limestones and limestones with minor lime muds:	334.0 – 700.0 mMDRT
Marine lime muds, clays and very fine muddy limestones:	700.0 – 770.0 mMDRT
Marine green clays, lime muds, clays and very fine muddy limestones:	770.0 – 819.0 mMDRT
Very fine to fine silty sandstones and minor lime muds:	819.0 – 885.0 mMDRT
Very fine to fine silty and sideritic sandstones and sandstones:	885.0 – 1290.0 mMDRT
Sandstones and argillaceous sandstones:	1290.0 – 1385.0 mMDRT

Interval summaries are presented in the Daily Geological Reports in Appendix 7. More detailed descriptions of the Patricia-2 stratigraphy were made from drill cuttings and are included as Appendix 3. Returns above 334.0 mMDRT were to the sea floor.

High gas readings were recorded while drilling through the reservoir with a maximum of 12.5% while drilling at 843.0 mMDRT. No hydrocarbon fluorescence was observed in the well.

A summary of the lithologies penetrated in Patricia-2 appears below.

Seafloor – 334.0 mMDRT

No samples taken – returns to seabed

334.0 to 400.0 mMDRT

Sequence of interbedded ARGILLACEOUS CALCILUTITE and ARGILLACOUS CALCISILTITE

ARGILLACEOUS CALCILUTITE: (40 - 100%) white to very light grey, light bluish grey, light olive grey, very soft to soft, amorphous, sticky in part, 10 to 15% fossil fragments and forams (coral debris, bryozoa, spicules, shell fragments, forams), 10 to 25% siliceous clay content, 10 to 20% calcisilt, grades to **argillaceous calcisiltite** in part, trace fine dark green glauconite.

ARGILLACEOUS CALCISILTITE: (0 - 60%) white to very light grey, light bluish grey, light olive grey, very soft to soft, amorphous, 10 to 15% fossil fragments and forams (coral debris, bryozoa, spicules, shell fragments, forams), 15 to 30% siliceous clay content, 5 to 10% micrite, trace to 5% very fine to fine calcite grains, trace fine dark green glauconite, grades to **argillaceous calcilutite** in part.

400.0 to 490.0 mMDRT

Interbedded ARGILLACEOUS CALCISILTITE and CALCILUTITE grading to ARGILLACEOUS CALCILUTITE

ARGILLACEOUS CALCISILTITE: (50-90%) light to light medium grey, light to medium olive grey, trace orange, soft, dispersive in parts, firm in parts amorphous, 5 to 10% fossil fragments (coral debris, bryozoa, spicules, shell fragments, forams), 20 to 35% siliceous clay content, recrystallised calcite

in parts, 5 to 10% fine, clear to orange calcite grains, trace very fine dark green glauconite, trace soft disseminated pyrite, grades to **argillaceous calcilutite**.

CALCILUTITE: (10-50%) very light to light medium grey, light to medium olive grey, soft, dispersive in parts, amorphous, trace to 5% fossil fragments and forams, 15-20% siliceous clay content, 5 to 10% calcisilt, trace very fine dark green glauconite, grades to **argillaceous calcilutite**.

490.0-520.0 mMDRT

ARGILLACEOUS CALCISILTITE with interbedded MARL

ARGILLACEOUS CALCISILTITE: (60-90%) light to light medium grey, light to medium olive grey, trace dark grey, soft to occasionally firm, dispersive in parts, firm in parts, amorphous, 5% fossil fragments, 20-35% siliceous clay content, 5 to 10% fine, clear to orange calcite & recrystallised grains, trace very fine dark green glauconite, trace soft disseminated pyrite, grades to **argillaceous calcilutite**.

MARL: (10-40%) very light to light medium grey, light to medium olive grey, very soft, dispersive in parts, amorphous, 5% fossil fragments and forams, 30-40% siliceous clay content, trace to 5% calcisilt, trace very fine dark green glauconite, grades to **argillaceous calcilutite**.

520.0 to 590.0 mMDRT

Predominantly a CALCISILTITE sequence with interbeds of CALCARENITE and MARL

CALCISILTITE: (40 - 75%) very light to light medium grey, light to medium olive grey, soft to occasionally firm, amorphous, 5% fossil fragments, 10 to 15% siliceous clay content, 10 to 20% fine clear to orange calcite & recrystallised grains, trace very fine dark green glauconite, trace soft disseminated pyrite, grades to **calcarenite**.

MARL: (20 - 40%) very light to light grey, light to medium olive grey, very soft, dispersive in parts, amorphous, 5% fossil fragments and forams, 30 to 40% siliceous clay content, trace to 5% calcisilt, trace very fine dark green glauconite, grades to **argillaceous calcilutite**.

CALCARENITE: (0 - 30%) very light to light medium grey, white in parts, soft to firm, amorphous, silt to very fine clear to very light grey calcite grains, 5% fossil fragments, 10 to 15% siliceous clay content, trace very fine dark green glauconite, trace soft disseminated pyrite.

590.0-700.0 mMDRT

Sequence of ARGILLACEOUS CALCISILTITES interbedded with CALCARENITE and MARL

ARGILLACEOUS CALCISILTITE: (45 - 70%) very light to light medium grey, light to medium olive grey, soft to occasionally firm, trace to 5% fossil fragments, 10 to 25% siliceous clay content, 10 to 20% fine grained calcite & recrystallised grains, trace very fine dark green glauconite, trace disseminated pyrite, grades to **calcarenite**.

CALCARENITE: (5 - 30%) very light to light medium grey, white in parts, soft to firm, silt to fine clear to very light grey calcite grains, 5% fossil fragments, 5 to 10% siliceous clay content, trace very fine dark green glauconite, trace soft disseminated pyrite.

MARL: (10 - 45%) white to very light to light grey, light to medium olive grey, very soft, dispersive in parts, amorphous, trace to 5% fossil fragments and forams, 20 to 30% siliceous clay content, trace to 5% calcisilt, trace very fine dark green glauconite, trace disseminated and rare nodular pyrite, commonly grades to **argillaceous calcilutite**.

700.0-770.0 mMDRT

MARL with interbedded ARGILLACEOUS CALCISILTITE

MARL: (40-90%) light grey, light to medium olive grey, minor dark grey, soft, amorphous to blocky, 5 to 10% fossil fragments and forams, 20 to 40% siliceous clay content, trace to 5% calcisilt, trace to 5% fine to medium dark green glauconite, trace disseminated and nodular pyrite. Grades to **calcareous claystone**.

ARGILLACEOUS CALCISILTITE: (10-60%) very light to medium grey, light to medium olive grey, soft to occasionally firm, blocky, trace to 5% fossil fragments, 15 to 25% siliceous clay content, 10 to 15% fine grained calcite & recrystallised grains, trace very fine dark green glauconite, trace disseminated and nodular pyrite, grades to **calcarenite**.

770.0-819.0 mMDRT

Interbedded CALCAREOUS CLAYSTONE, MARL and GREENSAND with minor ARGILLACEOUS CALCISILTITE

CALCAREOUS CLAYSTONE: (40-70%) light to medium greyish brown, light grey, light brownish yellow in parts, soft, amorphous to blocky, 15 to 25% calcareous content, 0 to 5% calcisilt, 1 to 10% fine to medium dark green glauconite, trace to 5% siderite(?) nodules.

MARL: (10 - 60%) light grey, light to medium olive grey, minor dark grey, soft amorphous to blocky, 5% fossil fragments and forams, 20 to 35% siliceous clay content, trace to 5% calcisilt, 1 to 3% fine to medium dark green glauconite, trace disseminated and nodular pyrite. Grades to **calcareous claystone**.

GLAUCONITIC SANDSTONE (GREENSAND): (0 - 30%) medium to very dark green, firm, soft in parts, very fine to medium glauconite, sub angular to sub rounded. Increasing towards base of interval.

ARGILLACEOUS CALCISILTITE: (0 - 10%) very light to medium grey, light to medium olive grey, soft to occasionally firm, blocky, trace to 5% fossil fragments, 15 to 25% siliceous clay content, 10 to 15% fine grained calcite & recrystallised grains, trace very fine dark green glauconite, trace disseminated and nodular pyrite, grades to **calcarenite**.

819.0-885.0 mMDRT

SILTY SANDSTONE with minor CALCAREOUS CLAYSTONE

SILTY SANDSTONE: (50 - 95%) light to dark yellowish brown, loose and friable, minor firm, clear to translucent quartz grains, very fine to fine, poorly to moderately sorted, sub angular to sub rounded, 15 to 25% quartz silt, 5 to 15% argillaceous content, 1 to 3% glauconite, trace to 1% mica, trace to 5% siderite nodules, trace multicoloured lithics, fair to good inferred porosity, no fluorescence.

CALCAREOUS CLAYSTONE: (5 - 50%) light to medium greyish brown, light grey, light brownish yellow, soft, firm in parts, amorphous to blocky, 10 to 25% calcareous content, 5 to 10% calcisilt, 5 to 15% fine to medium dark green glauconite. Grades to **claystone**.

885.0-960.0 mMDRT

Massive SILTY SANDSTONE

SILTY SANDSTONE: (100%) light to dark yellowish brown, greyish brown, loose and friable to hard cemented (siderite?) aggregates, clear to translucent quartz grains, very fine to fine, trace medium, poorly to moderately sorted, sub angular to sub rounded, 15 to 30% quartz silt, 5 to 15% argillaceous content, trace to 2% glauconite, trace to 1% mica, trace to 3% siderite nodules, trace multicoloured lithics, nil to trace forams, fair to very good inferred porosity, no fluorescence.

960.0-1060.0 mMDRT

SILTY SANDSTONE grading to SANDSTONE

SILTY SANDSTONE: (100%) light to dark yellowish brown, greyish brown, loose and friable to rare hard cemented (siderite?) aggregates, clear to translucent quartz grains, very fine to fine, trace medium, poorly to moderately sorted, sub angular to sub rounded, 15 to 25% quartz silt, 5% argillaceous content, trace to 1% glauconite, trace to 1% mica, trace siderite nodules, trace multicoloured lithics, nil to trace forams, fair to good inferred porosity, no fluorescence. Grades to **sandstone**.

1060.0-1180.0 mMDRT

Massive ARGILLACEOUS and SILTY SANDSTONE

ARGILLACEOUS / SILTY SANDSTONE (100%): light to dark yellowish brown, medium greyish brown, 5 to 10% friable to hard cemented siderite aggregates, clear to translucent quartz grains, very fine to fine, trace medium, poorly to moderately sorted, angular to sub rounded, 20 to 30% quartz silt, 15 to 25% argillaceous content, trace to 1% glauconite, trace to 1% mica, trace multicoloured lithics, trace nodular pyrite, nil to trace forams, fair inferred porosity, no fluorescence.

1180.0-1290.0 mMDRT

SILTY SANDSTONE grading to (Argillaceous) SIDERITIC SANDSTONE

SILTY SANDSTONE: (80%) light to dark yellowish brown, medium greyish brown, dominantly loose and friable, trace hard cemented (siderite?) aggregates, clear to translucent quartz grains, very fine to fine, moderately sorted, angular to sub rounded, 15 to 25% quartz silt, 10% argillaceous content (suspect clay content being dispersed into mud system), trace to 1% glauconite, trace to 2% mica, trace to 2% siderite nodules, trace multicoloured lithics, trace nodular pyrite, nil to trace forams, fair to good inferred porosity, no fluorescence.

SIDERITIC / ARGILLACEOUS SANDSTONE: (20%) light to commonly dark yellowish brown, dark greyish brown, dominantly loose and friable, common hard cemented (siderite?) aggregates, clear to translucent quartz grains, very fine to fine, rare medium, poor to moderately sorted, angular to sub rounded, 15 to 20% quartz silt, 15 to 30% argillaceous content (suspect clay content being dispersed into mud system), trace to 1% glauconite, trace to 1% mica, 15 to 25% siderite nodules, trace multicoloured lithics, trace nodular pyrite, nil to trace forams, fair inferred porosity, no fluorescence.

1290.0-1385.0 mMDRT

Massive SANDSTONE grading to ARGILLACEOUS SANDSTONE

SANDSTONE: (70%) light to medium yellowish brown, medium greyish brown, dominantly loose and friable, clear to translucent quartz grains, very fine to fine, moderately sorted, angular to sub rounded, 10 to 15% quartz silt, 10% argillaceous content (suspect clay content being dispersed into mud system), trace to 1% glauconite, trace to 2% mica, trace siderite nodules, trace multicoloured lithics, trace nodular pyrite, nil to trace forams, good inferred porosity, no fluorescence. Grades to **argillaceous sandstone**.

ARGILLACEOUS SANDSTONE: (30%) light to medium yellowish brown, medium greyish brown, dominantly loose and friable, clear to translucent quartz grains, very fine to fine,

moderately sorted, angular to sub rounded, 10 to 15% quartz silt, 15 to 30% argillaceous content (suspect clay content being dispersed into mud system), trace to 1% glauconite, trace to 2% mica, trace to 5% dark yellowish brown siderite nodules, trace multicoloured lithics, trace nodular pyrite, nil to trace forams, fair to good inferred porosity, no fluorescence.

3.2 BIOSTRATIGRAPHY

No palynology or micropaleontology was undertaken in Patricia-2.

4.0 HYDROCARBON SHOWS

4.1 OIL FLUORESCENCE SHOWS

No oil fluorescence shows were observed in Patricia-2.

4.2 GAS SHOWS

Mud gas was first recorded from 334.0 mMDRT; however, it was not until below 400.0 mMDRT that the gas readings rose above zero. The maximum gas recorded was 12.5% at 843.0 mMDRT. Only methane (C₁) was recorded throughout the drilling.

The mud gas is plotted on the Formation Evaluation Log (Enclosure 1). No Gas Ratio log was plotted as only C₁ was ever recorded.

A summary of drilled gas is presented in Table 4.

TABLE 4 - Summary of Drilling Gas							
INTERVAL (mMDRT)	Total Gas (%)	C ₁ (ppm)	C ₂ (ppm)	C ₃ (ppm)	iC ₄ (ppm)	nC ₄ (ppm)	C ₅ (ppm)
334 - 400	Nil						
400 - 496	0 – 0.02	0 - 155					
496 – 762	0.01 – 0.16	47 - 1529					
762 – 815	0.06 – 0.26	554 - 2355					
815 - 884	0.29 – 12.47	2309 - 99532					
884 - 1385	0.12 – 7.95	1583 - 60017					

5.0 LOGGING AND SURVEYS

5.1 MUD LOGS

Baker Hughes Inteq provided conventional mud logging services integrated with a computerised data logging and processing system.

The BHI unit was operated continuously throughout the well. The following logs were provided and are included as Enclosures: a Formation Evaluation Log (Enclosure 1), a Drilling Data Log (Enclosure 2), a Pressure Evaluation Log (Enclosure 3) and a Pressure Summary Plot (Enclosure 4). No Gas Ratio Log is enclosed as only C1 was recorded.

The BHI Daily reports are included in Appendix 8 and the final BHI Logging report is included in Appendix 3.

5.2 WIRELINE LOGS

No Wireline Logs were run in Patricia-2.

5.3 WIRELINE FORMATION TESTS

No wireline formation pressure tests were run in Patricia-2.

5.4 VELOCITY SURVEY

No Velocity Survey was undertaken in Patricia-2.

5.5 LWD

A summary of LWD runs is in Table 5 and the LWD operations report is in Appendix 8. Mud data for log analyses is in Table 6.

TABLE 5 - LWD LOG SUMMARY					
TOOL	LOG TYPE	DATE	RUN	INTERVAL mMDRT	COMMENTS
8" tools	DGR/EWRP4/ DM/DDS	21/6/02	1	111.5 – 334.0	444mm (17 ½") hole size
8" tools	DGR/EWRP4/ DM/DDS	23-25/6/02	2	334.0 – 884.0	311mm (12 ¼") hole size
6 3/4" tools	DGR/EWRP4/ SLD/CNP/PM	25-28/6/02	3	884.0 – 1385.0	216mm (8 ½").hole size

TABLE 6 - MUD DATA			
LWD RUN	1	2	3
TYPE	Seawater/Hi vis	KCl/PHPA/GLYCOL	FLO-PRO
DENSITY (sg)	1.06	1.08	1.12
VISCOSITY(sec/qt)	100.0	54.0	60.0
FLUID LOSS(mptm)		5.6	4.8
pH		8.7	9.5
Rm (ohmm)		0.18/21.00°C	0.10/19.4°C
Rmf (ohm)		0.12/21.00°C	0.09/19.4°C
Rmc (ohmm)		0.28/21.00°C	0.06/19.4°C
Chlorides (ppm)		35000	72000
KCl (%wt)		5.0	3.0
Glycol (%vol)		3.0	-

5.6 WELLHEAD LOCATION and TRAJECTORY

The Thales rig positioning report is included in Appendix 1. The Sperry Sun borehole trajectory surveys are in Appendix 9.

5.7 SITE SURVEY

A site survey was undertaken by Thales Geosolutions (Australasia) Limited between 15th to 19th March, 2002 to investigate the suitability of the Patricia-2 location for the positioning of a semi-submersible drill rig prior to drilling. The resultant report is presented in Appendix 10.

6.0 SAMPLE ANALYSES

6.1 OIL ANALYSES

No oil was observed, recovered or analysed from Patricia-2.

6.2 GAS ANALYSES

Three 20 Litre surface gas samples from the separator line were submitted to Core Laboratories for analyses and the report is contained in Appendix 5.

A summary of the average gas composition analyses is presented in Table 7.

Component	H ₂ S	CO ₂	N ₂	C ₁	C ₂	C ₃	iC ₄	nC ₄	iC ₅	nC ₅	C ₆₊
Mol %	0.00	1.38	0.69	97.59	0.33	0.01	Trace	Trace	0	0	0

Trace = detected but less than 0.005mol%.

6.3 WATER ANALYSES

No water was recovered and no analyses were conducted.



OMV Australia



The Thales logo is displayed in white, uppercase letters on a dark blue rectangular background. The letter 'A' features a small teal dot above it. The background of the entire page is a blue-toned image of a world map with a wavy, water-like texture.

THALES

**Patricia-2 Positioning Report of
the Ocean Bounty**

**Prepared for
OMV Australia Pty Ltd**

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Prepared for



OMV AUSTRALIA PTY LTD

DOCUMENT TITLE : PATRICIA-2 POSITIONING REPORT OF THE OCEAN BOUNTY

CLIENT : OMV AUSTRALIA PTY LTD

LOCATION : GIPPSLAND BASIN, BASS STRAIT

PERMIT : VIC/L21

REPORT REF. : 3382A3

REPORT REV NO. : 0

REPORT ISSUE DATE : 26 JUNE 2002

SURVEY DATE : 13 – 21 JUNE 2002

CONTENTS

	Page No.
Location Diagram	
Abstract	
1. RESULTS	5
1.1 Final Differential GPS Position of the Ocean Bounty Drillstem at the Patricia-2 Location	5
1.2 Ocean Bounty Anchor Positions	7
2. SAFETY	8
3. SUMMARY	9
3.1 Requirements	9
3.2 Summary of Events	10
4. EQUIPMENT ANALYSIS	12
4.1 Equipment Performance	12
5. EQUIPMENT CHECKS AND CALIBRATIONS	13
5.1 Differential GPS Check Fix	13
5.2 Gyrocompass Calibration	14
6. GEODETIC PARAMETERS	15
6.1 Datums	15
6.2 Projection	15
6.3 Datum Transformation	15
7. EQUIPMENT DESCRIPTIONS	16
7.1 GNS2	16
7.2 Global Positioning System (GPS)	17
7.3 SkyFix/SkyFix Spot Differential GPS (DGPS)	19
7.4 Trimble Series 4000 GPS Receiver	21
7.5 MultiFix 3	22
7.6 Tracs TDMA	25
7.7 S.G. Brown 1000S Gyrocompass	26
8. PERSONNEL AND EQUIPMENT	27
8.1 Personnel	27
8.2 Equipment	28
9. DISTRIBUTION	29

APPENDICES

- A - FINAL DIFFERENTIAL GPS DRILLSTEM POSITION AT PATRICIA-2
- B - GNS2 STATIC DIFFERENTIAL GPS FIX GRAPHS
- C - RUN LINE GRAPHICS OF ANCHOR HANDLING VESSELS
- D - OCEAN BOUNTY ANCHOR PATTERN DETAILS AT PATRICIA-2
- E - OCEAN BOUNTY ANCHOR CATENARY CALCULATIONS
- F - GYROCOMPASS CALIBRATION REPORT
- G - DIFFERENTIAL GPS CHECK
- H - OCEAN BOUNTY OFFSET DIAGRAM
- I - PACIFIC SENTINEL AND PACIFIC CONQUEROR OFFSET DIAGRAMS
- J - GNS2 CONFIGURATION FILE PRINTOUT
- K - DAILY REPORT SHEETS

LOCATION DIAGRAM



ABSTRACT

This report details the positioning services provided by Thales GeoSolutions (Australasia) Limited (Thales), prior to and during the positioning of the semi-submersible drilling rig Ocean Bounty at the Patricia-2 location for OMV Australia Pty Ltd (OMV).

Positioning of the Ocean Bounty during the approach to and at the Patricia-2 location was provided by Thales' SkyFix Spot Differential GPS (DGPS) interfaced to Thales' Multifix 3 multiple reference station positioning software and Thales' GNS2 rig move software. The two anchor handling vessels (AHVs), Pacific Sentinel and Pacific Conqueror were positioned using Thales' Tracs/TugNav Vessel Tracking System (VTS). The Ocean Bounty was positioned at the Patricia-2 location at 0420 on 20 June 2002.

Intended Patricia-2 Location

The co-ordinates of the intended Patricia-2 location were provided by OMV as follows:

Datum: AGD66

Latitude : 38° 01' 39.975" South
Longitude : 148° 26' 57.831" East

Projection: AMG Zone 55, CM 147° East

Easting : 627 209.00m
Northing : 5 790 097.80m

Rig Positioning Tolerance : ± 5m

Intended Rig Heading : 257.0° (T)

Final Differential GPS Drillstem Position at the Patricia-2 Location

The final Differential GPS Position of the Ocean Bounty drillstem at the Patricia-2 location was computed from data observed between 0602 and 0702 on 21 June 2002. The final position was as follows:

Datum: AGD66

Latitude : 38° 01' 39.946" South
Longitude : 148° 26' 57.777" East

Projection: AMG Zone 55, CM 147° East

Easting : 627 207.69m
Northing : 5 790 098.71m

The final Differential GPS drillstem position is 1.59m on a bearing of 303.9° (T) from the intended Patricia-2 location.

Final Rig Heading : 260.1° (T)

All times quoted in this report are Eastern Standard Time (UTC + 10.0 hours).

1. RESULTS

1.1 FINAL DIFFERENTIAL GPS POSITION OF THE OCEAN BOUNTY DRILLSTEM AT THE PATRICIA-2 LOCATION

The Ocean Bounty was positioned at the Patricia-2 location at 0420 on 20 June 2002.

The final Differential GPS position of the Ocean Bounty drillstem at the Patricia-2 location, was determined using Thales' MultiFix 3 positioning software interfaced to a Trimble 4000 DS GPS receiver, with differential corrections being provided by Thales' SkyFix Spot Differential GPS services.

The final fix routine, within Thales' GNS2 rig move software version 2.35, was used to compute the final Differential GPS position of the drillstem at the Patricia-2 location. A total of 720 position fixes were recorded at 5 second intervals between 0602 and 0702 on 21 June 2002.

Refer to Appendix A for the GNS2 final Differential GPS position printouts at the Patricia-2 location. Associated graphs are located in Appendix B.

Differential corrections from the SkyFix reference stations in Melbourne, Sydney and Adelaide were used in the MultiFix 3 software computations to derive the Differential GPS position.

The final surface co-ordinates for the Patricia-2 Ocean Bounty drillstem location, determined from Differential GPS observations were as follows:

Total number of samples used = 720.

The computed antenna position was as follows:

GPS Antenna Position

Datum: WGS84

Latitude	:	38° 01' 34.600" South	(S.D. 0.26m)
Longitude	:	148° 27' 00.928" East	(S.D. 0.46m)
Ellipsoidal Height	:	42.40m	(S.D. 0.65m)

Transforming the above WGS84 co-ordinates to AGD66 co-ordinates using the parameters in section 6, gives the following antenna co-ordinates:

GPS Antenna Position

Datum: AGD66

Latitude	:	38° 01' 40.127" South
Longitude	:	148° 26' 56.406" East
Ellipsoidal Height	:	49.32m

By applying a distance of 33.90m on a bearing of 80.6° (T) from the antenna position, the following drillstem co-ordinates were calculated:

Final Differential GPS Position of the Drillstem at the Patricia-2 Location

Datum: AGD66

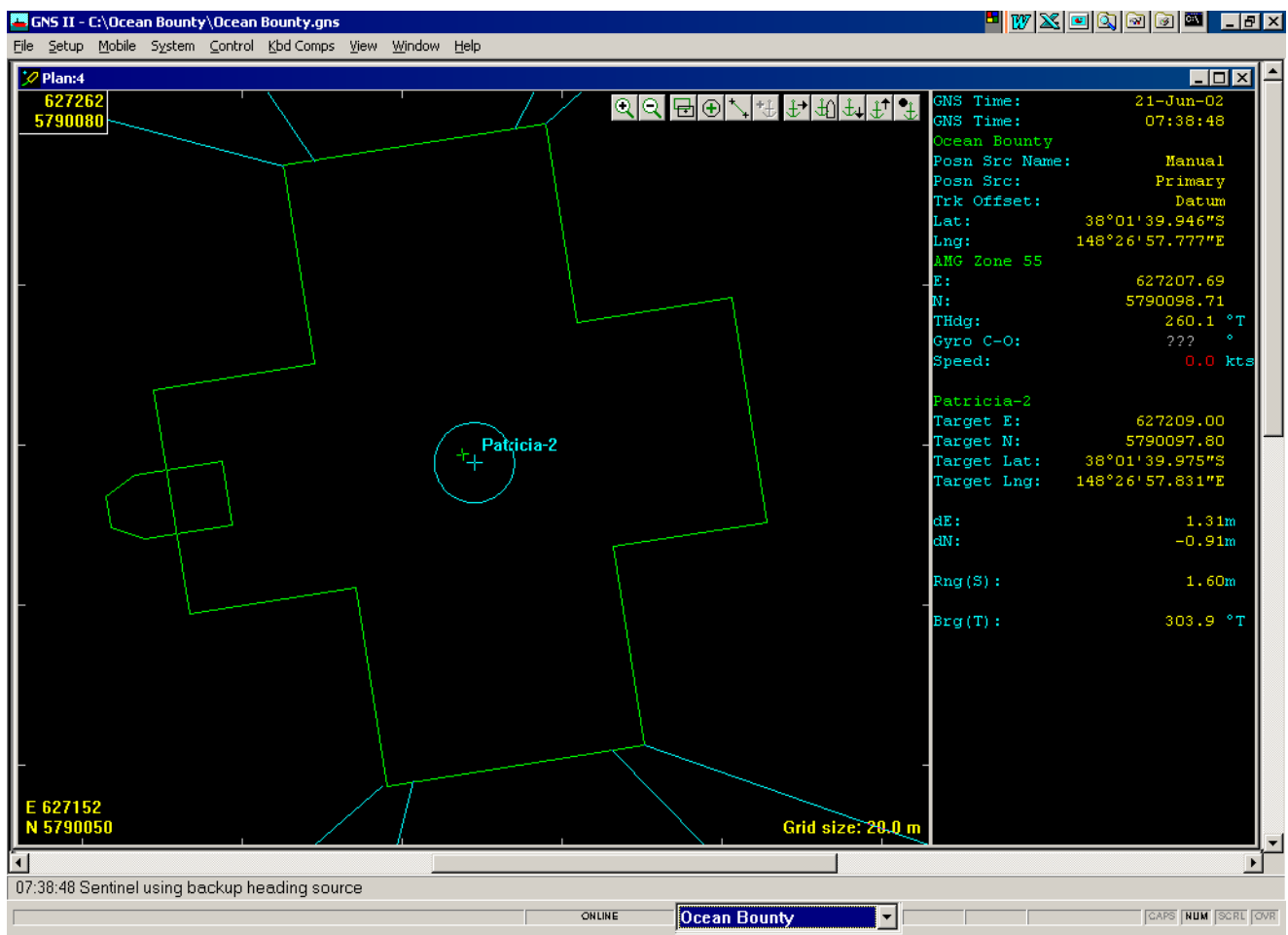
Latitude : 38° 01' 39.946" South
Longitude : 148° 26' 57.777" East

Projection: AMG Zone 55, CM 147° East

Easting : 627 207.69m
Northing : 5 790 098.71m

This final Differential GPS position of the drillstem is 1.59m on a bearing of 303.9° (T) from the intended Patricia-2 location.

Final Rig Heading : 260.1° (T)



Skyfix Spot Differential GPS Position and Intended Position at the Patricia-2 Location

1.2 OCEAN BOUNTY ANCHOR POSITIONS

Deployed anchor positions were derived from the computed anchor function within the GNS2 software. The function takes into account the length of anchor chain out, water depth, anchor tension and the wet weight of anchor chain to compute the deployed anchor positions. The final anchor positions are tabulated below:

Datum: AGD66 Projection: AMG Zone 55, CM 147° East

Anchor	Intended Anchor Position		Final Anchor Position	
	Easting (m)	Northing (m)	Easting (m)	Northing (m)
Anchor 1	626 785	5 788 756	627 015	5 789 358
Anchor 2	626 187	5 789 139	626 540	5 789 484
Anchor 3	625 884	5 790 553	626 321	5 790 362
Anchor 4	626 272	5 791 148	626 730	5 790 799
Anchor 5	627 633	5 791 440	627 630	5 790 919
Anchor 6	628 231	5 791 056	628 269	5 791 087
Anchor 7	628 534	5 789 643	628 059	5 789 774
Anchor 8	628 146	5 789 048	627 785	5 789 486

Difference of final anchor positions from the intended anchor positions.

Anchor	Dropped by	Eastings (m)	Northings (m)
Anchor 1	P.Sentinel	+230.2	+602.3
Anchor 2	P.Conqueror	+353.7	+344.4
Anchor 3	P.Conqueror	+437.6	-190.9
Anchor 4	P.Conqueror	+458.1	-348.6
Anchor 5	P.Conqueror	-3.4	-521.2
Anchor 6	Ocean Bounty	+37.6	+30.5
Anchor 7	P.Sentinel	-475.1	+130.8
Anchor 8	P.Sentinel	-360.8	+437.9

Horizontal distance and bearing from the Ocean Bounty fairleads to the final anchor positions.

Anchor	Easting (m)	Northing (m)	Bearing (T)	Horizontal Distance (ft)
1	627 015.06	5 789 358.05	194.0°	2377
2	626 540.43	5 789 483.61	228.0°	2862
3	626 321.15	5 790 361.85	283.8°	2931
4	626 729.85	5 790 799.27	324.4°	2649
5	627 629.74	5 790 918.68	27.2°	2898
6	628 268.89	5 791 086.91	47.1°	4642
7	628 059.36	5 789 773.64	108.3°	2881
8	627 785.48	5 789 485.62	135.0°	2635

Ocean Bounty anchor details are located in Appendices C, D and E of this report.

2. SAFETY

A pre-rig move meeting was held at Thales' Perth offices on 7 June 2002. Thales personnel N. Mackay, P. Malatzky and S. Bradley were present. During the meeting safety procedures were discussed including correct operation and handling of equipment. It was also confirmed that personnel had been issued with the appropriate safety equipment.

All Thales personnel attended DOGC's daily pre-tour meetings and the weekly safety meeting on 19 June 2002.

A fire and abandon rig drill was held onboard the Ocean Bounty on 16 June 2002, all Thales personnel participated and reported promptly to their stations, remaining there until the all clear was given.

Should an incident occur, Thales' procedures require the incident to be recorded on the appropriate forms and Thales' QA & Safety Manager to be notified immediately. The QA & Safety Manager will initiate a full and thorough investigation with corrective action being introduced to prevent further incidents.

There were no incidents involving Thales personnel during this project. Thales personnel carried out their duties at all times in accordance with Company and Statutory Regulations and Guidelines.

When demobilising the Ocean Bounty, all equipment was packed securely in the designated area where they would not cause obstructions. All heavy or fragile boxes were clearly labelled to avoid accidents during handling.

A project debrief was also held at Thales' Perth offices on 24 June 2002. During the meeting the safety procedures that had been undertaken were discussed and reviewed. It was noted that all personnel had taken due care and as a result there had been no incidents.

3. SUMMARY

3.1 REQUIREMENTS

Thales GeoSolutions (Australasia) Limited were contracted by OMV Australia Pty Ltd to provide personnel and positioning equipment consisting of Thales' SkyFix Spot Differential GPS for the rig move of the Ocean Bounty to the Patricia-2 location.

The project requirements were as follows:

- (a) Provide real-time positioning of the semi-submersible drilling rig Ocean Bounty and the anchor handling vessels Pacific Sentinel and Pacific Conqueror during the anchor recovery at the Baleen-3 location.
- (b) Provide real-time positioning of the semi-submersible drilling rig Ocean Bounty and the anchor handling vessels Pacific Sentinel and Pacific Conqueror, during transit to the Patricia-2 location.
- (c) Differential GPS Positioning of the Ocean Bounty at the Patricia-2 location.
- (d) Real-time positioning (including GNS2 fixing/logging/streaming) of the Ocean Bounty and the Pacific Sentinel and Pacific Conqueror during anchor deployment operations at the Patricia-2 location.
- (e) Determine the final Differential GPS position of the Ocean Bounty drillstem at the Patricia-2 location using a Multiple Reference Station Differential GPS solution.
- (f) The provision of a comprehensive positioning report containing the final Differential GPS position of the Ocean Bounty drillstem and anchors at the Patricia-2 location.

The positioning requirements were as follows:

- (a) Intended Patricia-2 location was supplied by OMV as follows:

Datum: AGD66

Latitude : 38° 01' 39.975" South
Longitude : 148° 26' 57.831" East

Projection: AMG Zone 55, CM 147° East

Easting : 627 209.00m
Northing : 5 790 097.80m

- (b) Positioning tolerance : ± 5m
- (c) Intended rig heading : 257.0° (T)

3.2 SUMMARY OF EVENTS

All times quoted are in Eastern Standard Time (UTC + 10.0 hours).

13 June 2002

- 0915 Thales personnel Paul Malatzky (PM) and Steve Bradley (SB) depart Perth Domestic Airport for Melbourne.
- 1600 Advised by Thales operations in Perth, transfer to rig delayed until Saturday 15 June 2002.

14 June 2002

Stand by for transfer to Ocean Bounty at Baleen-3 location.

15 June 2002

- 1205 Depart Essendon airport for the Ocean Bounty at the Baleen-3 location.
- 1315 Arrive onboard the Ocean bounty at the Baleen-3 location.
- 1600 Confirm with client representative Bill Edmonds, intended Patricia-2 location to be AGD66 co-ordinates 38° 01' 39.97" South 148° 26' 57.83" East, AMG Zone 55, 627 209.00m East 5 790 097.80m North.
- 1800 Commence mobilisation of Thales equipment.
- 1930 Thales equipment operational.

16 June 2002

- 0720 Commence solar azimuth observations.
- 0730 Conclude solar azimuth observations.
- 0800 Calculate gyrocompass C-O value of +0.5 and enter into GNS II.
- 0930 Thales systems including TRACS in fully operational. Flux gate compass on Conqueror faulty.
- 1230 PM and SB attend the pre-rig move meeting onboard the Ocean Bounty. Procedure of the move discussed. Anchor 6 confirmed as run in anchor, distance of 2nm. All advised of location of Patricia-1 well head. Anchor recovery expected to commence 1800hrs
- 1800 Anchor recovery delayed.
- 2230 Thales personnel participate in the fire and abandon rig drill onboard the Ocean Bounty.

17 June 2002

Standby for anchor recovery to commence.

18 June 2002

Standby for anchor recovery operations to commence. ROV to complete subsea work, weather marginal and affecting operations.

19 June 2002

- 0422 Commence anchor recovery operations.
- 0855 # 2 PCC parts from wire.
- 1005 Conqueror collects # 2 chain with "J" hook and chases out.
- 1155 Anchor recovery operations temporarily halted. ROV to return to water.
- 1235 Ocean Bounty manoeuvres near Baleen-3 to assist ROV operations.
- 1300 PM attends the weekly safety meeting onboard the Ocean Bounty.
- 1944 Recommence anchor recovery operations.

20 June 2002

- 0030 Ocean Bounty departs the Baleen-3 location.
- 0200 Ocean Bounty commences 2nm run in to Patricia-2 location.
- 0340 Anchor deployment commences.
- 0420 Ocean Bounty over the Patricia-2 location.
- 1115 Anchor deployment completed.
- 1130 Ocean Bounty positioning over the Patricia-2 location.
- 1500 Rig position accepted by client representative Bill Edmonds, spud in commences.
- 2020 Commence final fix at the Patricia-2 location. GNS II Streaming activated.
- 2027 STOP final fix, rig maneuvering to stab back in.

21 June 2002

- 0602 Commence final fix at the Patricia-2 location.
- 0702 Conclude final fix at the Patricia-2 location. The datum is 1.59m @ 303.9° T from the intended Patricia-2 location. Position accepted by client representative Bill Edmonds.

4. EQUIPMENT ANALYSIS

4.1 EQUIPMENT PERFORMANCE

During the positioning of the semi-submersible rig Ocean Bounty from the Baleen-3 location to the Patricia-2 location, no significant problems were encountered with Thales' equipment or software.

An intermittent fault was experienced with the Fluxgate Compass onboard the Pacific Conqueror, this was overcome by the vessel heading being entered manually during anchor recovery and deployment.

Thales personnel were transferred to the Pacific Conqueror and this fault was corrected prior to the completion of the project.

5. EQUIPMENT CHECKS AND CALIBRATIONS

5.1 DIFFERENTIAL GPS CHECK FIX

A Differential GPS check fix of the drillstem position of the Ocean Bounty at the Baleen-3 location was computed using SkyFix Spot Differential GPS. 120 fixes were taken. Appendix G contains the results of the check fix of the Ocean Bounty drillstem position at the Baleen-3 location.

The published Differential GPS co-ordinates of the Ocean Bounty drillstem position at the Baleen-3 location are as follows:

Datum : AGD66

Latitude : 38° 00' 20.986" South
Longitude : 148° 26' 34.415" East

Projection : AMG Zone 55, CM 147° East

Easting : 626 675.86m
Northing : 5 792 541.30m

The computed Differential GPS check fix co-ordinates of the Ocean Bounty drillstem position is as follows:

Datum : AGD66

Latitude : 38° 00' 20.884" South
Longitude : 148° 26' 34.394" East

Projection : AMG Zone 55, CM 147° East

Easting : 626 675.39m
Northing : 5 792 544.46m

The Differential GPS check fix of the Ocean Bounty drillstem position is 3.20m on a bearing of 350.7°(T) from the published Ocean Bounty drillstem position at the Baleen-3 location.

The client representative queried the Differential GPS check fix result. Further investigation revealed the rig had heaved in 15ft of chain on winches 3 and 4 which mirrored the indicated position of the Differential GPS check.

The client representative reviewed all geodetic parameters an antenna offsets at which time Thales' equipment was accepted as operating correctly.

5.2 GYROCOMPASS CALIBRATION

The S.G. Brown 1000S gyrocompass installed onboard the Ocean Bounty was calibrated on 16 June 2002 using a marine sextant. A series of measurements of the horizontal angle between the centreline of the rig and the sun was observed while accurately recording local time at the instant of each observation. The gyrocompass heading was simultaneously recorded within GNS2 data files.

Thales' Solar Observation software was used to determine the azimuth of the sun for each observation. The observed horizontal angle was applied to the sun's azimuth to determine the true heading of the rig. Each Computed (C) true heading was then compared with the Observed (O) gyrocompass heading to determine the Computed minus Observed (C-O) value for the gyrocompass. The C-O value in GNS2 was set to zero prior to conducting the gyrocompass calibration.

Observation Date : 16 June 2002

Average Local Time (HMS)	Average Horizontal Angle (DMS)	Azimuth Sun (DMS)	Azimuth RO (DMS)	Calculated (C) True Heading (D.D)	Observed (O) True Heading (D.D)	C-O (D.D)
7:20:05	163° 25' 12"	060° 39' 32"	257° 14' 20"	257.2°	256.7°	0.5°
7:20:35	163° 17' 12"	060° 34' 58"	257° 17' 46"	257.3°	256.8°	0.5°
7:21:00	163° 13' 48"	060° 31' 09"	257° 17' 21"	257.3°	256.8°	0.5°
7:21:45	163° 02' 36"	060° 24' 17"	257° 21' 41"	257.4°	256.8°	0.6°
7:22:25	163° 19' 48"	060° 18' 10"	256° 58' 22"	257.0°	256.7°	0.3°
7:23:05	162° 37' 24"	060° 12' 02"	257° 34' 38"	257.6°	256.2°	1.4°
7:23:35	163° 01' 48"	060° 07' 26"	257° 05' 38"	257.1°	256.8°	0.3°
7:24:00	162° 26' 36"	059° 59' 46"	357° 33' 10"	257.6°	257.0°	0.6°
7:25:10	162° 50' 12"	059° 52' 51"	257° 02' 39"	257.0°	256.7°	0.3°
7:25:52	162° 37' 12"	059° 46' 23"	257° 09' 11"	257.2°	256.8°	0.4°

Mean C-O = +0.5°

The mean C-O of +0.5° was input into the GNS2 navigation software. See Appendix F for the gyrocompass calibration results.

6. GEODETIC PARAMETERS

Co-ordinates listed in this report are referenced to the Australian Geodetic Datum 1966 (AGD66). The Global Positioning System (GPS) is referenced to the World Geodetic System 1984 (WGS84).

6.1 DATUMS

Datum : **AGD66**
Spheroid : Australian National Spheroid
Semi-major Axis (a) : 6 378 160.000m
Semi-minor Axis (b) : 6 356 774.719m
Eccentricity Squared (e^2) : 0.006 694 542
Flattening (f) : 298.25

Datum : **ITRF 92 (Epoch 1994.0) WGS84 G730**
Spheroid : WGS84
Semi-major Axis (a) : 6 378 137.000m
Semi-minor Axis (b) : 6 356 752.314m
Eccentricity Squared (e^2) : 0.006 694 380
Flattening (f) : 298.257 223 563

6.2 PROJECTION

Projection Name : **Australian Map Grid 1966 (AMG66)**
Projection Type : Universal Transverse Mercator
AMG Zone : 55
Central Meridian (CM) : 147° East
Scale factor on the CM : 0.9996
False Easting : 500 000m
False Northing : 10 000 000m
Latitude of Origin : 0° (Equator)
Unit of Measure : International Metre

6.3 DATUM TRANSFORMATION

The following 7-parameter datum transformation was used by the GNS2 software to convert WGS84 co-ordinates to AGD66 co-ordinates:

Dx	=	+123.314m
Dy	=	+47.223m
Dz	=	- 136.594m
Rx	=	+0.264"
Ry	=	+0.322"
Rz	=	+0.270"
Scale	=	+1.384 p.p.m.

The sign convention in Thales' GNS survey software used is that used by the US Department of Defense and by Higgins, where a positive rotation about the Z axis is an anti-clockwise movement of the X and Y axes (when viewed from the North Pole looking towards the center of the Earth).

7. EQUIPMENT DESCRIPTIONS

7.1 GNS2

GNS2 (General Navigation System) is Thales' third generation of On-line Navigation Survey Control software. It has been written by Thales' Software Support Group in C++ for operation under Windows® 95 or Windows® 98 or Windows® NT. GNS2 adheres to the operation and dialogue conventions of the Microsoft Windows® environment. Attention has been paid to preserving a consistent operator interface, while at the same time modifying individual dialogue boxes to reflect specific logical circumstances. It has been designed for operation with a pointing device such as a mouse or a tracker ball but control can still be effected in case of the absence or failure of such a device.

The program has the ability to accommodate a large number and variety of mobiles, including surface vessels/ships, anchor handling vessels, tugs, barges, ROVs, towfish, aircraft, vehicles and submersibles etc. The only limiting factors on the number of mobiles that can be tracked in GNS2 are the number of input/output serial communication ports available on the computer and the computer's memory.

For the input/output (I/O) of navigation and sensor data, GNS2 employs intelligent multi-channel serial communications boards to expand a computer's serial input/output facility. Currently GNS2 can support up to 26 communication (Comm) ports, which would consist of the computer's two internal Comm ports and three 8 channel serial communications boards fitted in the computer's internal expansion slots.

If Least Squares Computations (LSCs) are employed for positional calculations, whether two-dimensional (2D), three-dimensional (3D) or altitude aided, GNS2 uses standard iteration routines for the minimisation of residuals using 'variation of co-ordinate' algorithms. The number of positioning systems/computations that GNS2 can handle, is only limited by the number of I/O serial communication ports available on the computer and the computer's memory.

All input observables are accepted on interrupt. Screen updates and other internal triggers are paced to once per second but time critical activities occur at discrete moments as required.

The GNS2 application workspace can extend beyond the display area, which is normally restricted to a single monitor connected to the computer. By using one or more multiple VGA cards, an enlarged display area can spread across multiple monitors.

Currently GNS2 can display 14 different types of view windows. Several copies of the same type of view window can be invoked at any one time. This may be required when several mobiles are being tracked and a Plan, Helmsman's or Bullseye display are required for each one or when the data on several Comm ports are to be viewed simultaneously. Each window can be individually sized to optimise use of the available display area.

GNS2 can be operated in 2 modes; GNS2 Master or GNS2 Remote. GNS2 Master has the full functionality of GNS2. GNS2 Remote is run on a separate computer and allows independent configuration of the graphics display and its associated numeric information. GNS2 Remote is operated on Anchor Handling Vessels or anywhere where positional information is required. (eg. Vessel Masters, ROV Pilots, Winch Control Stations). The link between GNS2 Master and GNS2 Remote can be via a telemetry link or hard wired cable.

7.2 GLOBAL POSITIONING SYSTEM (GPS)

System Description

The NAVSTAR GPS (Navigational Satellite Timing and Ranging Global Positioning System) is a USA Military all-weather, space-based positioning system that transmits signals from a constellation of satellites orbiting the Earth. It is capable of providing suitably equipped users worldwide with accurate three-dimensional positions on, or near, the Earth's surface. The accuracy of these determined positions can vary from a few millimetres to several 10's of metres depending on the GPS receiver and on the method of data acquisition and processing. System design consists of three integrated parts: the Ground Control Segment, the Space Segment and the User Segment.

The operational space segment consists of 24 production satellites and 3 active spares; the term Space Vehicle (SV) is used as a synonym for satellite. The satellites are in high orbits, at approximately 20,200km, having an orbit period of 12 hours. They are arranged in 6 orbital planes, inclined at 55 degrees with near circular orbits. The configuration provides complete 4-satellite (3D) coverage worldwide.

GPS Observations

There are two important types of GPS observations (observables): Pseudo-range and Carrier Phase. Carrier phase is sometimes also referred to as carrier beat phase. Pseudo-range techniques are generally used for navigation. In high-precision baseline surveying the carrier phase is used. Although the (undifferenced) phase can be used directly, it has become common practice, at least in surveying applications, to process certain linear combinations of the original carrier phase observations (double differences and triple differences).

Pseudo-ranges

The pseudo-range is a measure of the distance between the satellite and the receiver at the epochs of transmission and reception of the signals. The transit time of the signals is measured by comparing (correlating) identical pseudo-random noise (PRN) codes generated by the satellite and by the receiver. A code-tracking loop within the receiver shifts the internal replica of the PRN code in time until maximum correlation occurs. The codes generated at the receiver are derived from the receiver's own clock, and the codes of the satellite transmissions are generated by the satellite system of clocks. It follows that unavoidable timing errors in both the satellite and the receiver clock will cause the measured quantity (pseudo-range) to differ from the geometric distance.

Where instantaneous positions are required, pseudo-range is the preferred observable. Given the satellite ephemeris (i.e. the position of the satellite at the epoch of transmission), there are seven unknowns: two clock errors, three receiver co-ordinates and the ionospheric and tropospheric delays. The effect of the satellite clock error is negligible for the typical navigation solution, particularly considering that the time errors are indistinguishable from the ionospheric and tropospheric delays. The satellite clocks are constantly monitored and synchronised with GPS time as maintained by the control centre. Actual offsets of the satellite clocks are approximated by polynomials in time and transmitted as part of the navigation message to the user for the correction of the measured pseudo-ranges. The ionospheric and tropospheric delays can be computed on the basis of ionospheric and tropospheric models, thus there are four unknowns left X, Y, Z and receiver clock error. These can be determined from four pseudo-ranges measured simultaneously to four GPS satellites.

Carrier Phase

The phase observable is the difference between the phase of the carrier signal of the satellite, measured at the receiver, and the phase of the local oscillator within the receiver at the epoch of measurement. This can be regarded as a biased range measurement of the satellite-receiver distance with the integer number of carrier waves being unknown. The wavelength of the L1 carrier is about 19cm. Because of the fraction of the carrier phase is measured, the term "interferometry" is often used to describe carrier phase techniques.

7.3 SKYFIX/SKYFIX SPOT DIFFERENTIAL GPS (DGPS)

Differential GPS (DGPS)

GPS is primarily a USA Defence space-based positioning system capable of operating worldwide and in all weather conditions. The USA Military can degrade the accuracy of GPS with the use of Selective Availability (SA) to control the accuracy of Pseudo-range measurements. Essentially, the user is given a false Pseudo-range for each satellite so that the resulting measurement is in error by a controlled amount. On the 1 May 2000 SA was discontinued conditionally and coincided with the successful demonstration of the ability to selectively deny GPS signals on a regional basis. SA has been set to zero and can be reinstated during periods of heightened global tension.

GPS signals are affected by several sources of positional bias, the largest of which was SA. The remaining biases of the ionosphere, the troposphere, time, satellite ephemeris and inherent receiver noise also give rise to substantial bias of position.

Differential GPS is a means by which the civil user can improve the accuracy and quality of GPS to the 1-3 metre level. It requires a receiver be located at a precisely known point from which pseudo-range corrections for each satellite can be determined and monitored. These pseudo-range corrections are then communicated by means of a telecommunications link to users at unknown locations. In the relative mode, most of the important systematic errors common to the known station and at the unknown location cancel out to improve the accuracy of the computed position.

SkyFix/SkyFix Spot Differential

SkyFix

Thales GeoSolutions (Australasia) Limited introduced its SkyFix Differential GPS System in Australia in February 1991, using the Inmarsat Pacific and Indian Ocean marine communications satellites as the differential data broadcast link. Extensive performance trials and projects undertaken to date have shown SkyFix to meet the best industry expectations in terms of quality of service and accuracy.

Satellite communications systems, particularly at the Inmarsat L-band frequencies of 1.5 GHz are reliable and free of the interference associated with the crowded MF/HF bands. This high data integrity gives users confidence that the corrections will be continuously received without interference.

The SkyFix Australian network comprises of reference stations at Dampier, Broome, Perth, Adelaide, Melbourne, Sydney, Cairns and Darwin.

SkyFix Spot

The SkyFix Spot Differential GPS System was launched in Australia in December 1994, using the OPTUS high powered focused communications satellite as the differential data broadcast link. Projects undertaken to date have shown SkyFix Spot to meet the industry expectations in terms of quality of service and accuracy.

The SkyFix Spot system has a link capacity of 1200 bits per second, similar to the SkyFix system but because it is only transmitting corrections from the Australian network an update rate of better than five seconds is achieved.

The OPTUS satellite uses the L-band frequencies of 1.5586 GHz and are very reliable and free of interference avoiding data loss associated with the crowded MF/HF bands.

The SkyFix Spot network comprises of reference stations at Dampier, Broome, Perth, Adelaide, Melbourne, Sydney, Cairns, Darwin, Alice Springs and also Ujung Pandang and Jakarta in Indonesia and Wellington, New Zealand.

The differential corrections generated at each reference station are brought via landline links to the data hub and control centre in Singapore, where the system is monitored for performance and quality. From there, a composite message containing full RTCM 104 version 2 formatted data from all reference stations are sent via dual redundant links to Satellite Earth Stations at Sentosa Island, Singapore, O.T.C. Perth, Western Australia and OPTUS, Perth, Western Australia, for uplink and broadcast over the Inmarsat Pacific and Indian Ocean Region satellites and the OPTUS Satellite.

The SkyFix/SkyFix Spot system includes a 24 hour monitoring facility to ensure the validity of data received at the control centre from the Differential GPS reference stations, and that the same data are received over the SkyFix/SkyFix Spot satellite data link.

7.4 TRIMBLE SERIES 4000 GPS RECEIVER

The Trimble Series 4000 GPS receiver is designed for moderate precision static and dynamic positioning applications. The GPS receiver provides time and three-dimensional station co-ordinates at a once-per-second update rate.

The receiver receives the civilian coded signal (C/A) from the GPS NAVSTAR satellites. The receiver automatically acquires and simultaneously tracks GPS satellites and precisely measures code phase and computes position and velocity.

Latitude, longitude and height values are output on the World Geodetic System (WGS84) Earth-centred, Earth-fixed co-ordinate system.

The receiver is designed to measure the following observables:

- Coarse/Acquisition (C/A) code Pseudo-ranges
- Rate of change of Pseudo-range
- Integrated Carrier

C/A code correlation techniques measure the propagation time of the signal from the satellite to the antenna. Latitude, longitude, height and time can be determined from measurements made from at least 4 satellites, by a process similar to triangulation.

To determine speed and heading, the receiver calculates the rate of change of Range (the range-rate) by measuring the Doppler shift of the carrier.

It is capable of receiving and processing differential corrections from other reference sources using the standard format of the Radio Technical Commission for Maritime Services, Special Committee 104 (RTCM SC-104), Version 1.0 or 2.0 protocols.

The Trimble Series 4000 GPS receiver has several options available, including internal data logging memory, event marker logging etc. and therefore may be used alone or as part of a more extensive navigation system.

7.5 MULTIFIX 3

7.5.1 System Overview

MultiFix 3 is Thales GeoSolutions third generation *multiple reference station* differential GPS (DGPS) real time position computation and quality control program. It is an integral part of the Thales SkyFix Premier service but can also be used with the standard SkyFix service. MultiFix 3 has more advanced features than its predecessor, MultiFix 2, including being able to use dual frequency receivers and form real time 'Iono-Free DGPS position solutions'.

MultiFix 3 is one of a series of programs available under the group name Zero, which includes other tools and utilities with a similar user interface and layout structure, like static and dynamic position comparison programs, a correction monitor program, a terminal program and a replay utility.

MultiFix 3 takes in Almanac, Ephemeris and Raw Code and Carrier measurements from a single or dual frequency GPS receiver (or, for replay, from logged files). It takes in RTCM SC104 Version 2 differential correction messages from one or more RTCM correction delivery systems. It also takes in RTCM Type 15 or Thales Proprietary RTCM Type 55 Ionospheric range corrections generated at selected SkyFix Premier reference stations and broadcast via the Thales global network of high (SkyFix Spot-Optus) and low (SkyFix-Inmarsat) power satellite based L-Band beams.

Key features of the program are:

- No limit on the number of RTCM correction delivery systems (data links)
- No limit on the number of RTCM differential reference stations
- No limit on the number of computations (solutions)
- Each computation can employ corrections from any combination of reference stations available
- Computations are weighted least squares with statistical evaluation based upon the UKOOA recommendations
- No limit on the number of outputs
- No limit on the number of view windows
- View windows can be customised
- Extra NMEA outputs can be defined
- TCP/IP communication via sockets for GPS, RTCM and position data transfer between networked computers

MultiFix 3 has been designed in a modular fashion such that data is passed between modules as if over a computer network. The core module MultiFix 3 performs the computation of position. Additional modules are available and more will be made available in the future. While a single computer can be used, the various modules will equally be able to be run on different computers, provided there is a network interconnection.

MultiFix 3 uses the EGM96 geoid/spheroid separation model.

The RTCM corrections that are generated at reference stations are contaminated by a variety of error components, one of which is ionospheric delay. The ionospheric delay is currently more variable because of greater sun spot activity. MultiFix 2 and MultiFix 3's standard computation uses the Klobuchar ionospheric delay model. This model is updated periodically but is not responsive to the current short-term variability. MultiFix 3 has an additional calculation option when working with dual frequency receivers and in receipt of Type 15 or 55 RTCM messages. With dual frequency receivers, estimates can be made of the ionospheric delay by examining the differences between the measurements from the two frequencies. If the same procedure for estimation of ionospheric delay is performed at the reference stations and on the mobile, both the RTCM corrections and the pseudo-ranges can have the ionospheric delay removed, effectively providing an Iono-Free DGPS position solution.

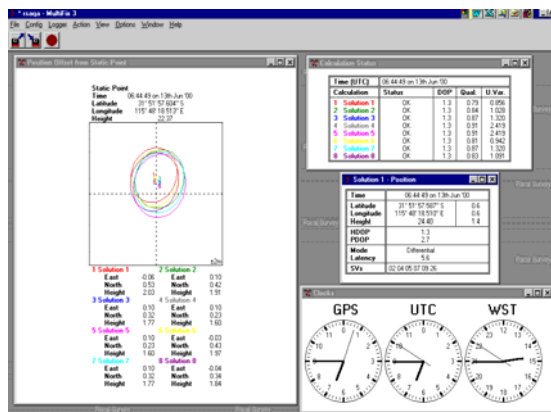
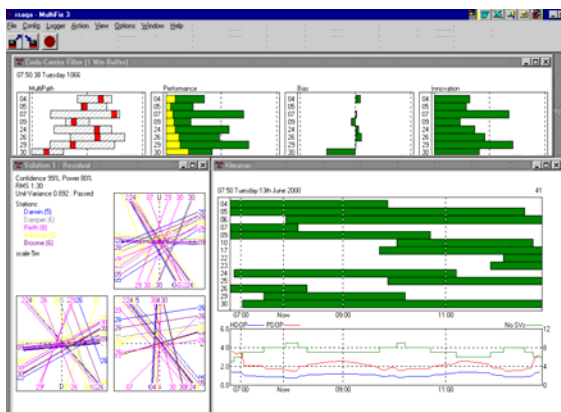
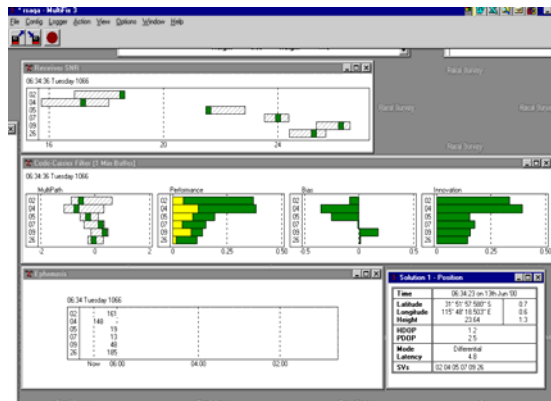
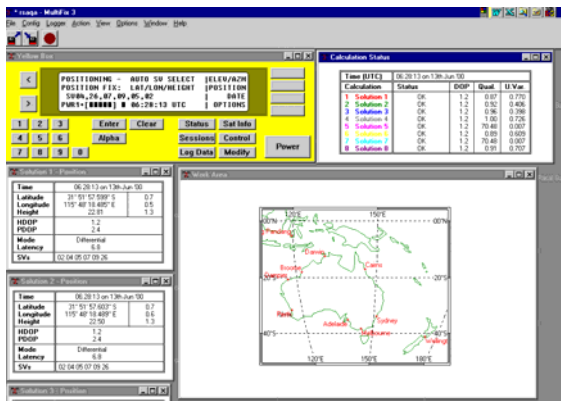
7.5.2 Hardware Requirements

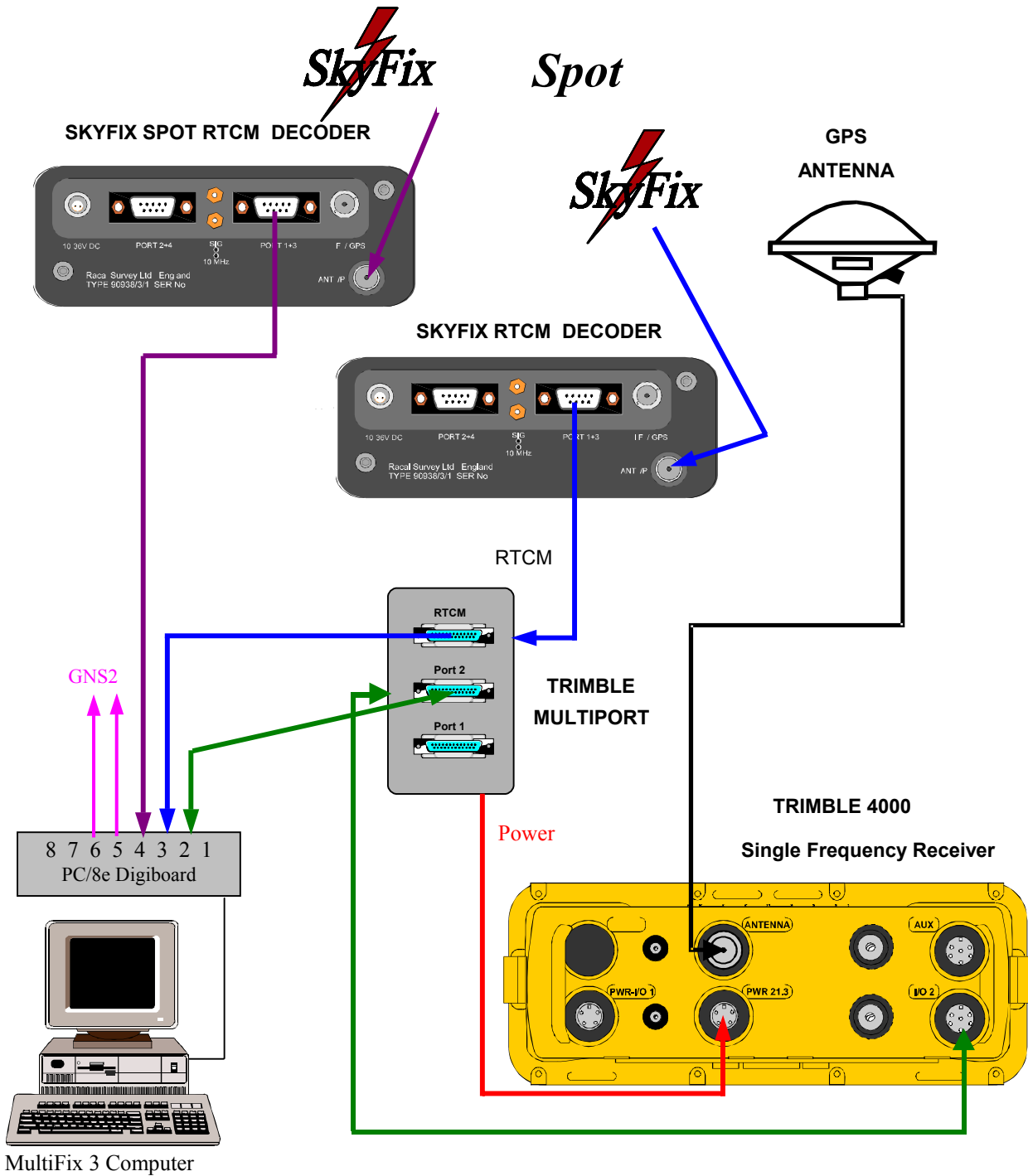
Optimum requirements for MultiFix 3 are:

- 350 MHz Pentium II computer
- 32 Mb RAM
- Windows 95, 98 or NT operating system
- Graphics resolution of at least 800 x 600 pixels
- Intelligent multi-port serial I/O board

7.5.3 Positioning and Quality Control Displays

MultiFix 3 has a large number of features to accommodate the user requirements of highly accurate positions with quality control (QC) information and outputs in different formats. MultiFix 3 runs in a Windows environment, which allows the user to design a preferred screen layout by opening, sizing and placing the numerous displays that are available. Examples of the various displays can be found below.





Typical MultiFix 3 Interconnection With Trimble 4000 GPS Receiver

7.6 TRACS TDMA

Tracs TDMA (Time Division Multiple Access) is a high speed, intelligent network radio datalink which can operate in the VHF or UHF bands to provide an addressable network with integrated position reporting from an integrated/internal GPS receiver. The standard Tracs units are fitted with a Trimble SK8 GPS receiver, or a Trimble DSM GPS receiver.

Each unit in the network is assigned a unique address (1 to 255) enabling messages can be specifically addressed to that unit. A broadcast address (0) is provided to allow multiple units to receive a message, for example RTCM corrections. The system manages the data bandwidth by dividing it into timeslots synchronised by means of GPS 1PPS (pulse per second) timing pulse from an internal GPS receiver.

The standard Tracs system has a frequency band of 455.0MHz to 465.0MHz (frequency module 53R). The channel frequencies can be selected in 25kHz steps and the units are equipped with the facility to pre-store 10 selected frequencies within the 10MHz band. Units for use in Australia are fitted with 471MHz radios.

There are four types of messages that can be transmitted in a Tracs network.

- Position Reports automatically generated from the SK8 or DSM GPS receiver as a NMEA type or Raw Pseudo Range information.
- Transparent messages used to send unformatted data across the network eg. RTCM corrections.
- Open messages used to provide a general-purpose data link between units. This format is used by GNS to transfer information.
- Configuration messages used for remote configuration of units using the Destination ID to identify which unit is being configured.

7.7 S.G. BROWN 1000S GYROCOMPASS

The S.G. Brown 1000S Gyrocompass is a compact, simple-to-operate master heading reference instrument employing the effect of gravity and the earth's rotation to produce a True North reference. This reference may be read off the compass card or from a digital display and can be interfaced to the GNS2 navigation system.

The normal starting cycle of the instrument is fully automatic and is initiated when the system power supply is switched on. A fail safe control circuit is incorporated which ensures that the compass is not damaged after a power failure when power is restored; the compass will restart automatically and carry out its normal settling program.

8. PERSONNEL AND EQUIPMENT

8.1 PERSONNEL

The following personnel were employed on this project:

For : Thales GeoSolutions (Australasia) Limited

P. Malatzky	:	Surveyor/Team Leader
S. Bradley	:	Senior Engineer

For : OMV Australia Pty Ltd

W. Edmonds	:	Client Representative
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8.2 EQUIPMENT

The following equipment was provided for this project:

Ocean Bounty

2 x Compaq Computer, inc monitor, keyboard (for GNS2 / MultiFix 3)

1 x Thales SkyFix Mini Rig Portable

3 x SkyFix/SkyFix Spot MK II Receivers

1 x Compaq Computer, inc. monitor, keyboard (for GNS2 Remote)

1 x S.G. Brown 1000S gyrocompass

1 x Uninterruptable Power Supply (UPS)

2 x Epson LX300 Printers

2 x SkyFix Spot Whip Antennae

1 x SkyFix Spot Antenna 90962/3/1

2 x Trimble 4000DS GPS Receivers

2 x SkyFix Spot Antennae

2 x Tracs Bricks

2 x Tracs Multiplexer

2 x UHF Antennae

1 x Marine Sextant

Pacific Sentinel and Pacific Conqueror

1 x Tracs Geopod

1 x Fluxgate compasses

1 x Tracs Box and Interface Box

1 x Compaq computer, inc. monitor, keyboard (GNS2 Tug Display)

1 x Uninterruptable Power Supply (UPS)


plus all associated software (GNS 2 version 2.32, MultiFix 3 version 1.24) c/w cables, consumables, software dongles etc.

9. DISTRIBUTION

Copies of this report have been distributed as follows:

OMV Australia Pty Ltd : 3 copies
Attn: Mr Ron King : 1 electronic copy

Thales GeoSolutions (Australasia) Limited : 1 copy



Paul Malatzky
Surveyor



Anthony Kerr
Survey Manager

APPENDIX A

**FINAL DIFFERENTIAL GPS DRILLSTEM POSITION AT
PATRICIA-2**

FINAL POSITION FIX – DIFFERENTIAL GPS

Job Description: Ocean Bounty to Patricia-2
Job Number: 3382A3
Thales Surveyor: P.Malatzky
Client: OMV Australia
Client Representative: W.Edmonds

Sampling started: 21 Jun 2002 06:02:38
Sampling end: 21 Jun 2002 07:02:35

Ocean Bounty

Intended datum location

Datum: AGD 1966
Latitude: 38°01'39.975"S Longitude: 148°26'57.831"E
Projection: AMG Zone 55
Easting: 627209.00 m Northing: 5790097.80 m

Final Antenna Position (T1 Thales UKOOA):

Sample size: 720 fixes used out of a total of 720.

Antenna offset

X: 0.28m Y: 33.90m Z: 20.00m
Range: 33.90m Rel Brg from datum to antenna: 0.5°

Datum: WGS 84
Latitude: 38°01'34.600"S Longitude: 148°27'00.928"E Spheroidal Ht: 42.40m
Datum: AGD 1966
Latitude: 38°01'40.127"S Longitude: 148°26'56.406"E Spheroidal Ht: 49.32m
Projection: AMG Zone 55
Easting: 627174.17 Northing: 5790093.66 Spheroidal Ht: 49.32m

Standard deviations

Long or E: 0.46m
Lat or N: 0.26m
Height: 0.65m
Position: 0.53m

Final Datum Position

Datum: AGD 1966
Latitude: 38°01'39.946"S Longitude: 148°26'57.777"E

Projection: AMG Zone 55
Easting: 627207.69 m Northing: 5790098.71 m

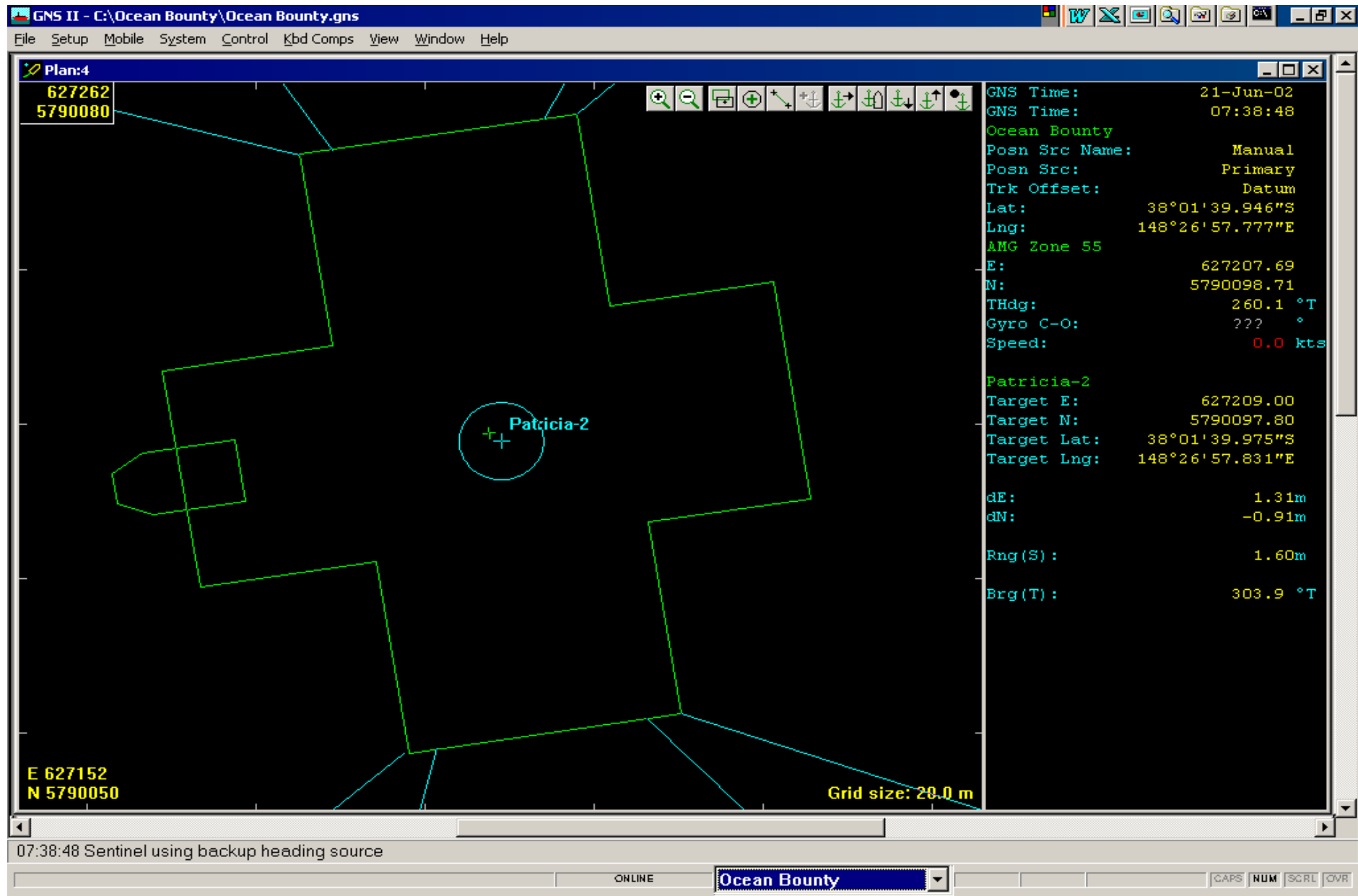
Mean corrected heading: 260.1°T
SD heading: 0.1°T
Intended heading: 257.0°T
Difference from intended: 3.1°
Gyro C-O: 0.5°
Convergence: -0.89°

Final Datum Position is 1.59m on a bearing of 303.9°T (304.8°G) from the intended location.

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Project: Patricia-2 Positioning Report of the Ocean Bounty

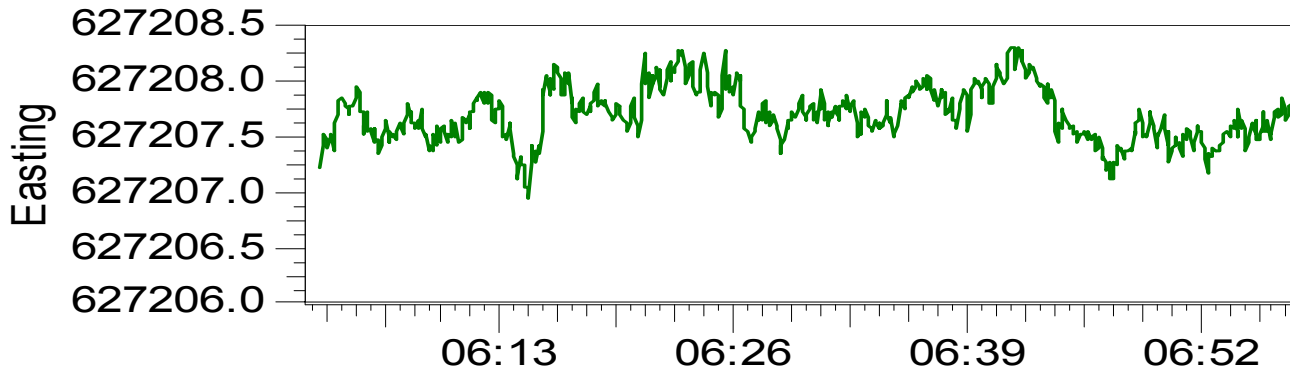
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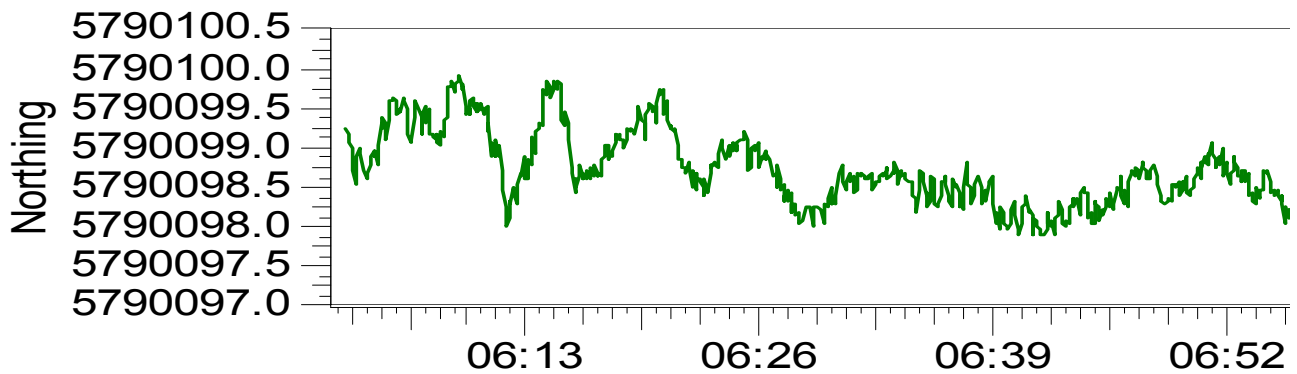
APPENDIX B

GNS2 STATIC DIFFERENTIAL GPS FIX GRAPHS

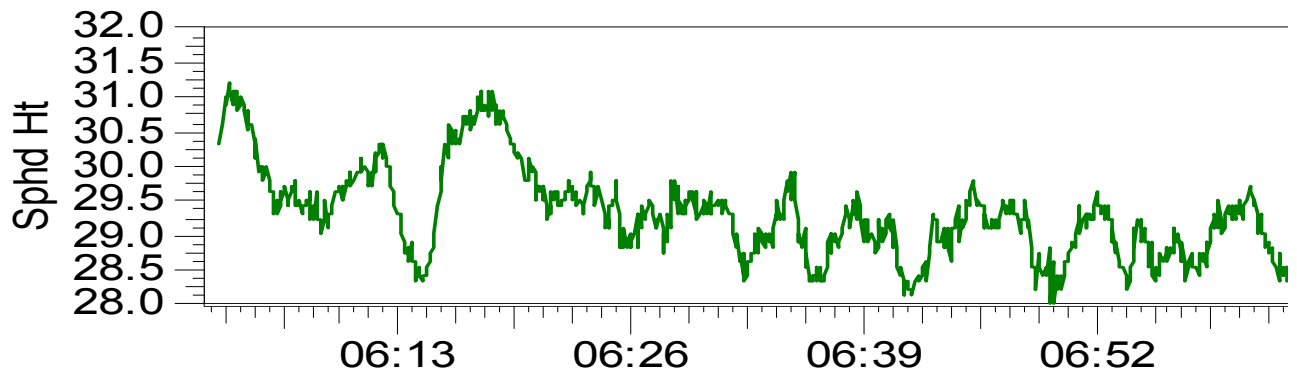
Datum Easting



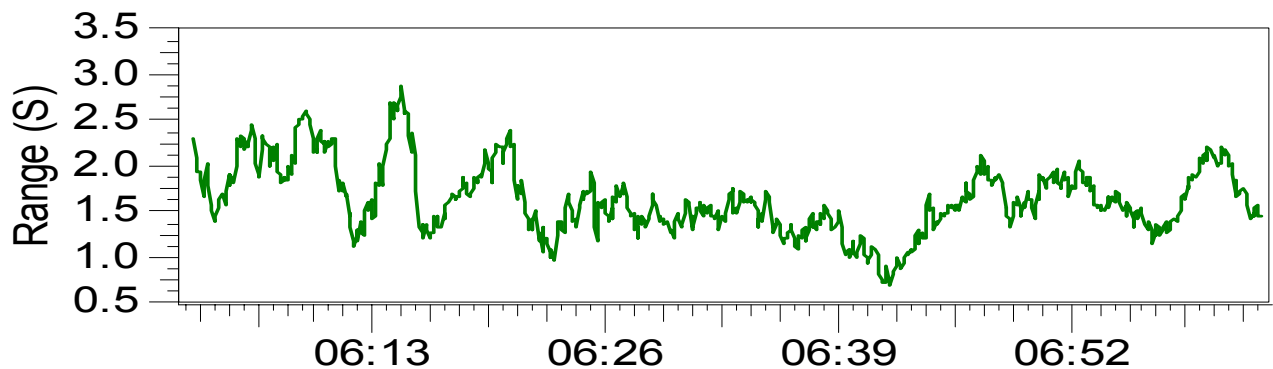
Datum Northing



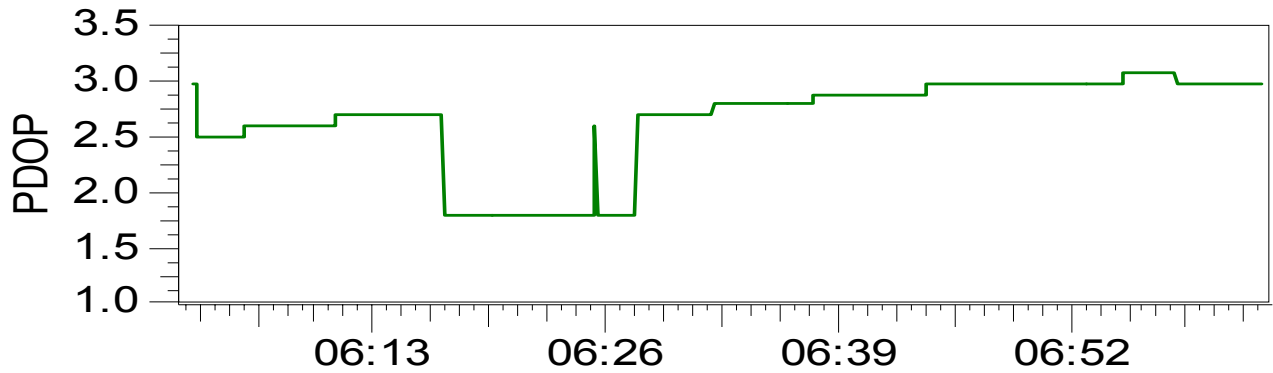
Sphd Height



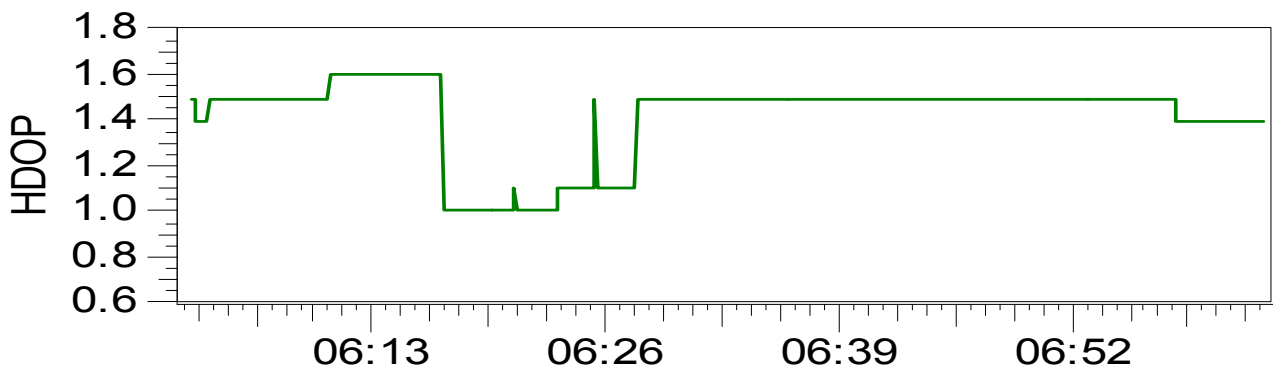
Location Range



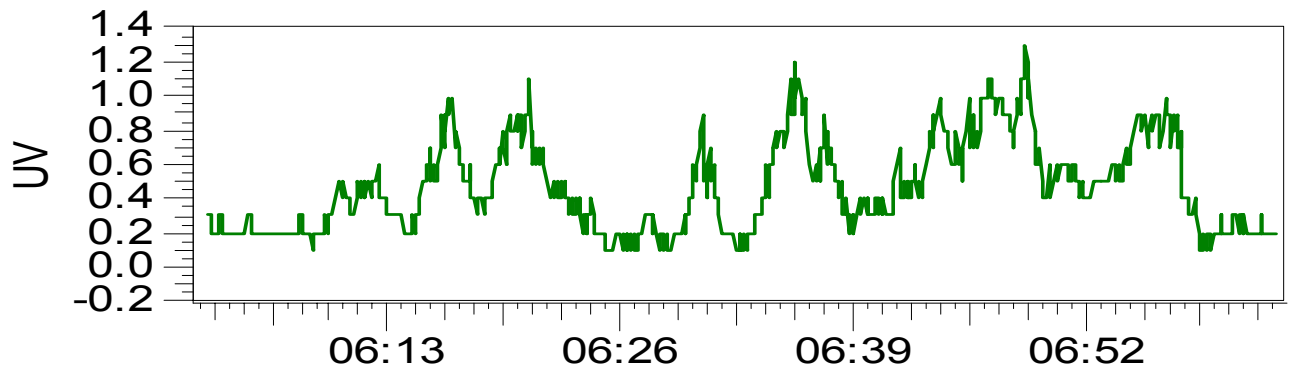
Solution PDOP



Solution HDOP



Unit Variance



Raw Static Fix Analysis - T1 Thales UK00A

Latitude	Longitude	Ht	Resid	Constel
<input checked="" type="checkbox"/> 38°01'34.601''S	148°27'00.918''E	41.90	0.23	8
<input checked="" type="checkbox"/> 38°01'34.606''S	148°27'00.914''E	42.00	0.38	8
<input checked="" type="checkbox"/> 38°01'34.615''S	148°27'00.913''E	41.80	0.58	8
<input checked="" type="checkbox"/> 38°01'34.617''S	148°27'00.914''E	41.90	0.62	8
<input checked="" type="checkbox"/> 38°01'34.620''S	148°27'00.915''E	41.80	0.69	8
<input checked="" type="checkbox"/> 38°01'34.613''S	148°27'00.921''E	41.70	0.43	8
<input checked="" type="checkbox"/> 38°01'34.610''S	148°27'00.929''E	41.60	0.31	8
<input checked="" type="checkbox"/> 38°01'34.607''S	148°27'00.931''E	41.60	0.23	8
<input checked="" type="checkbox"/> 38°01'34.608''S	148°27'00.928''E	41.40	0.25	8
<input checked="" type="checkbox"/> 38°01'34.614''S	148°27'00.926''E	41.80	0.43	8
<input checked="" type="checkbox"/> 38°01'34.614''S	148°27'00.922''E	41.50	0.45	8
<input checked="" type="checkbox"/> 38°01'34.618''S	148°27'00.919''E	41.60	0.59	8
<input checked="" type="checkbox"/> 38°01'34.614''S	148°27'00.926''E	41.50	0.43	8
<input checked="" type="checkbox"/> 38°01'34.613''S	148°27'00.926''E	41.60	0.40	8
<input checked="" type="checkbox"/> 38°01'34.609''S	148°27'00.929''E	41.40	0.28	8

Count: 720
 Mean Lat: 38°01'34.600''S
 Mean Lng: 148°27'00.928''E
 SD: 0.53

Grid Interval: 0.55m

Find Max Resid
Gate...
Restore
Constell...
Start
Close

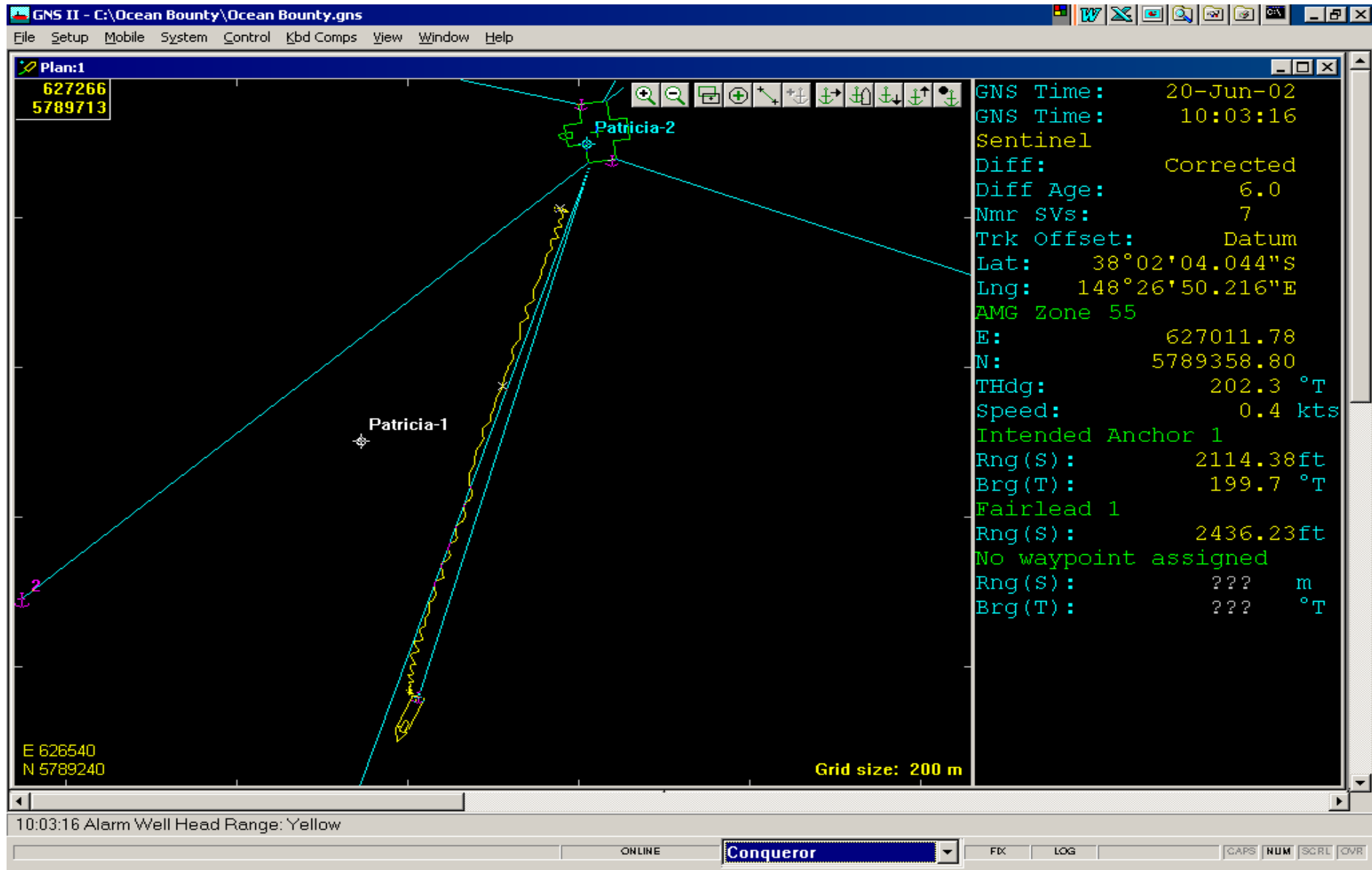
APPENDIX C

RUN LINE GRAPHICS OF ANCHOR HANDLING VESSELS

THALES Thales GeoSolutions (Australasia) Limited

Project: Patricia-2 Positioning Report of the Ocean Bounty

Client: OMV Australia Pty Ltd

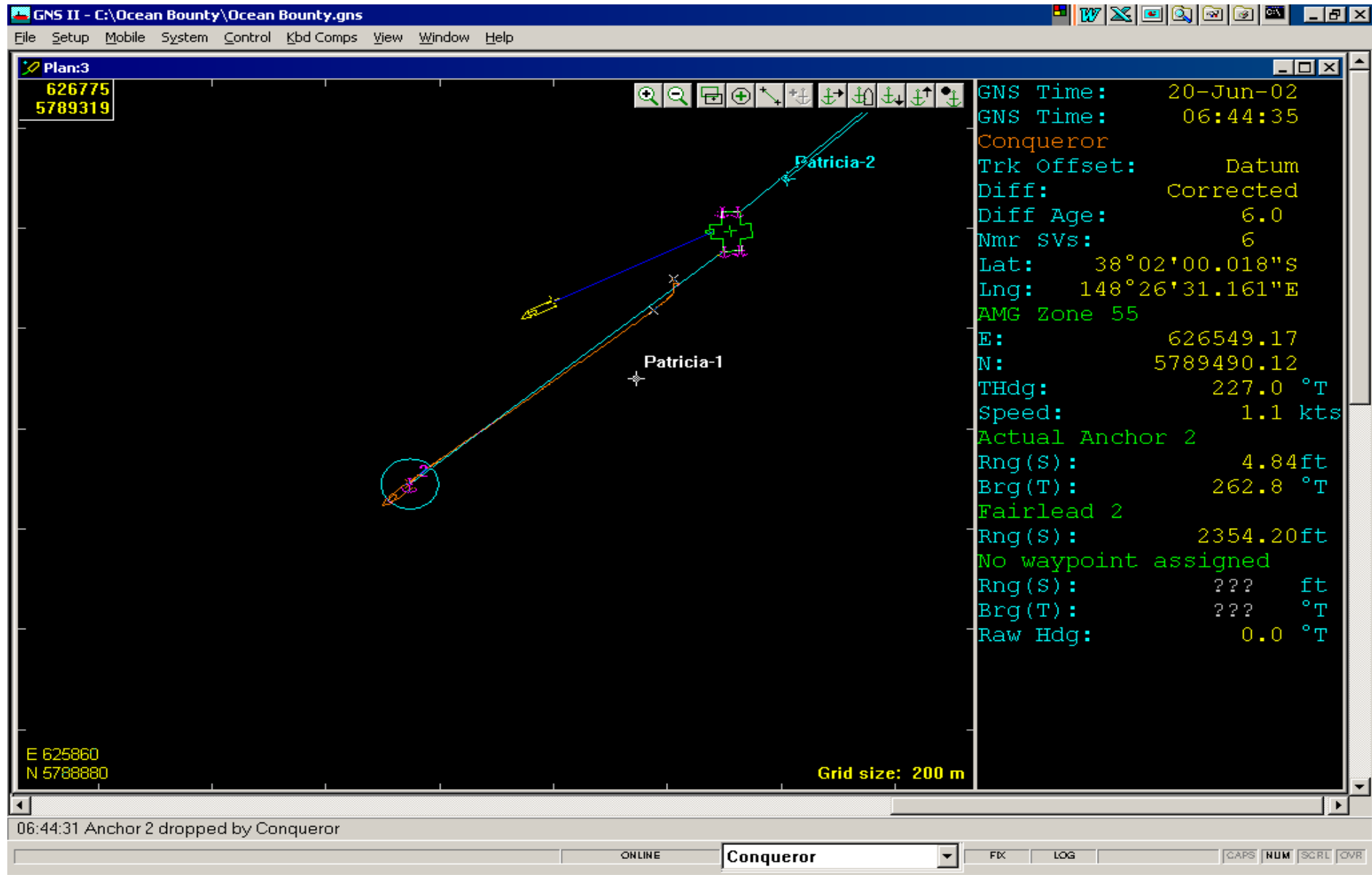


Anchor 1 – Pacific Sentinel

THALES Thales GeoSolutions (Australasia) Limited

Project: Patricia-2 Positioning Report of the Ocean Bounty

Client: OMV Australia Pty Ltd

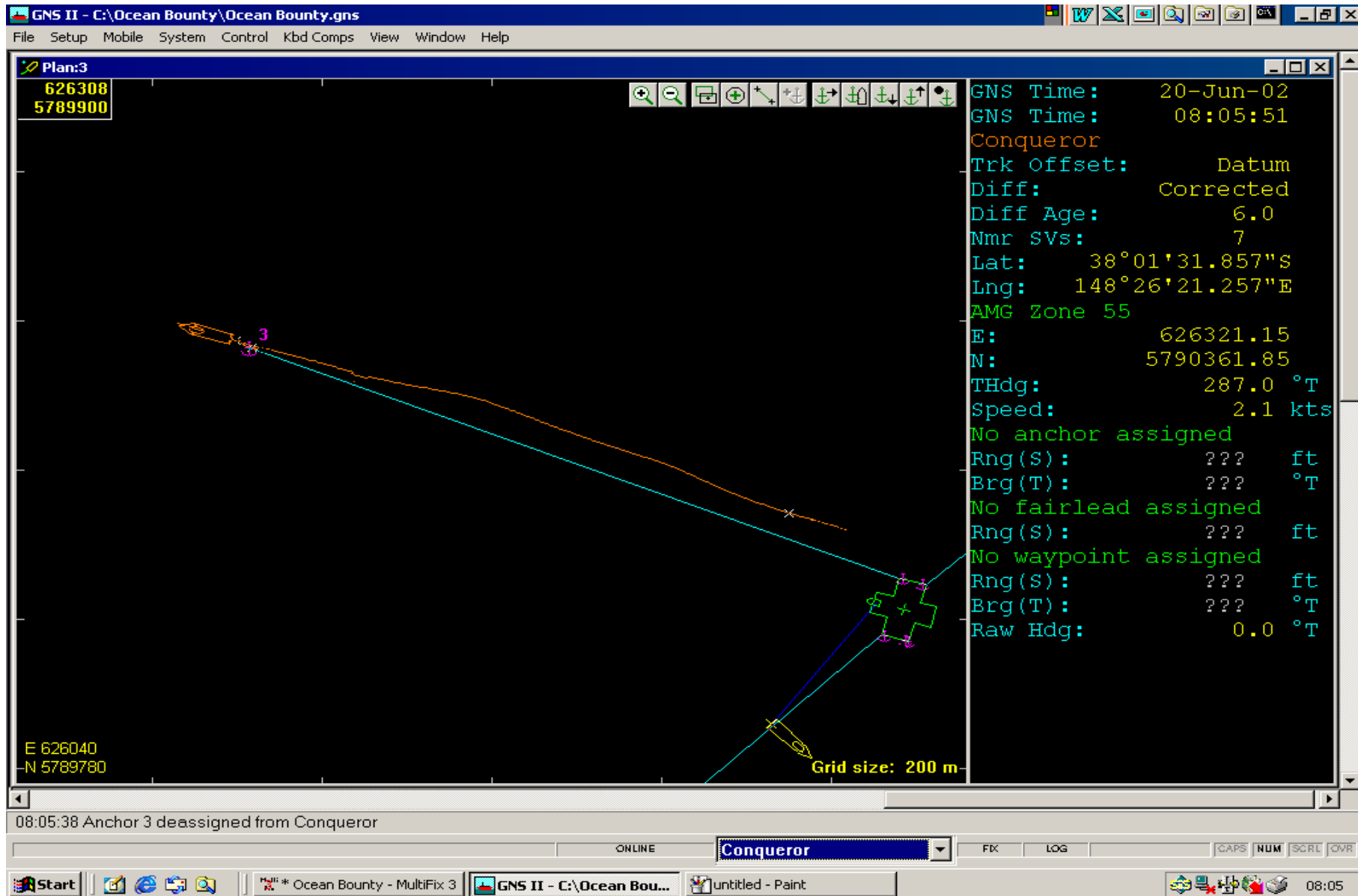


Anchor 2 – Pacific Conqueror

THALES Thales GeoSolutions (Australasia) Limited

Project: Patricia-2 Positioning Report of the Ocean Bounty

Client: OMV Australia Pty Ltd

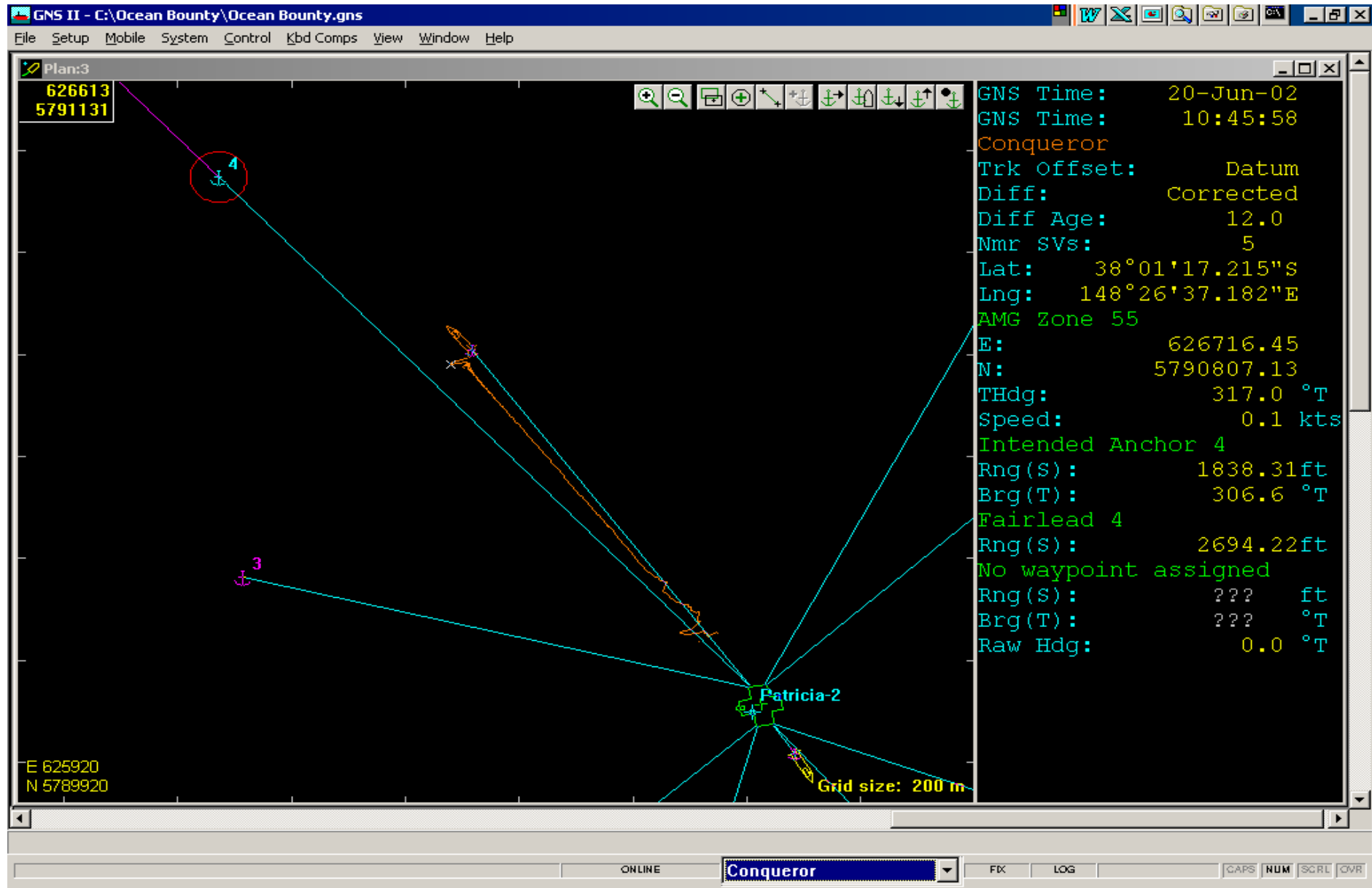


Anchor 3 – Pacific Conqueror

THALES Thales GeoSolutions (Australasia) Limited

Project: Patricia-2 Positioning Report of the Ocean Bounty

Client: OMV Australia Pty Ltd

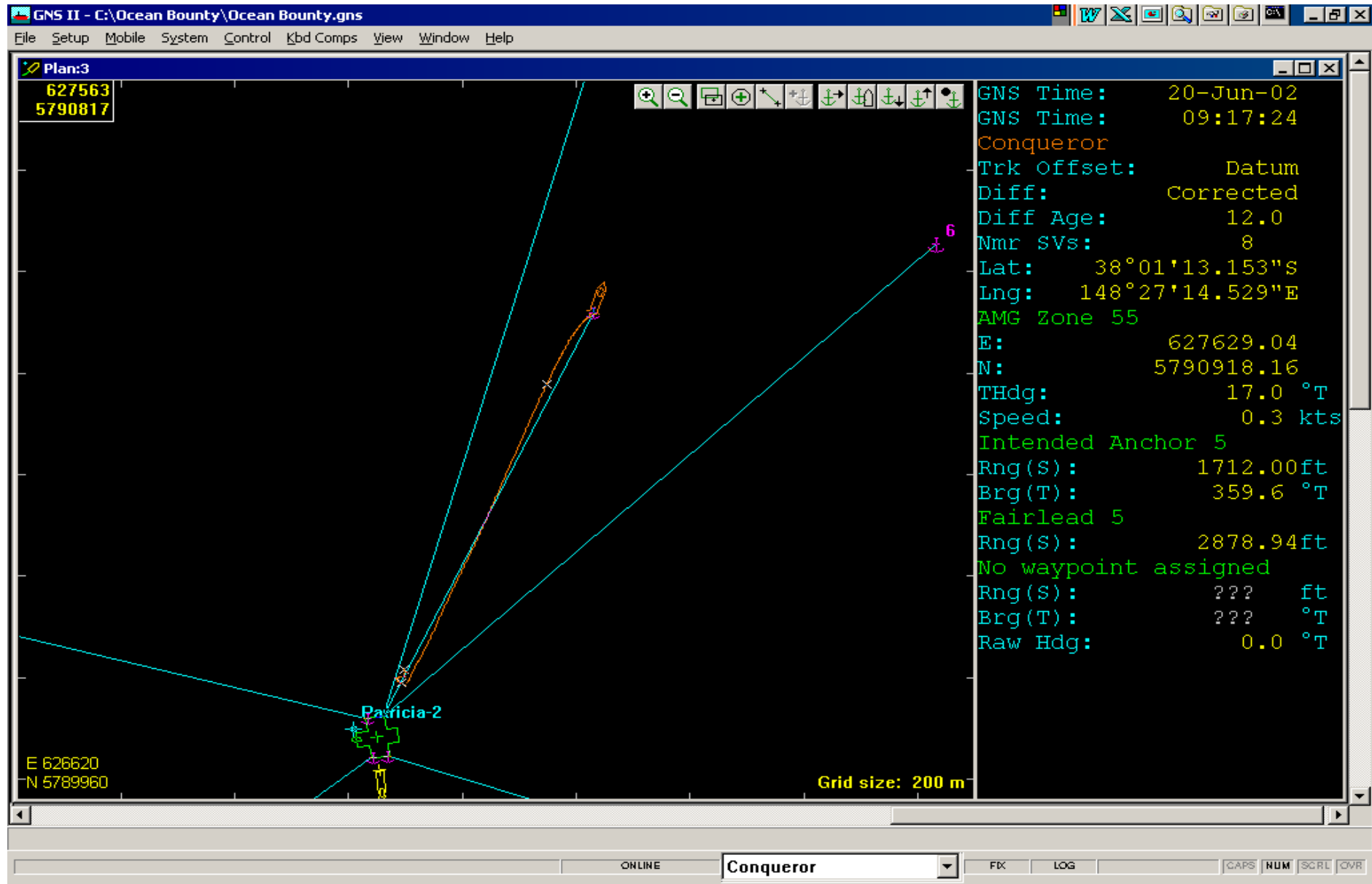


Anchor 4 – Pacific Conqueror

THALES Thales GeoSolutions (Australasia) Limited

Project: Baleen-3 Positioning Report of the Ocean Bounty

Client: OMV Australia

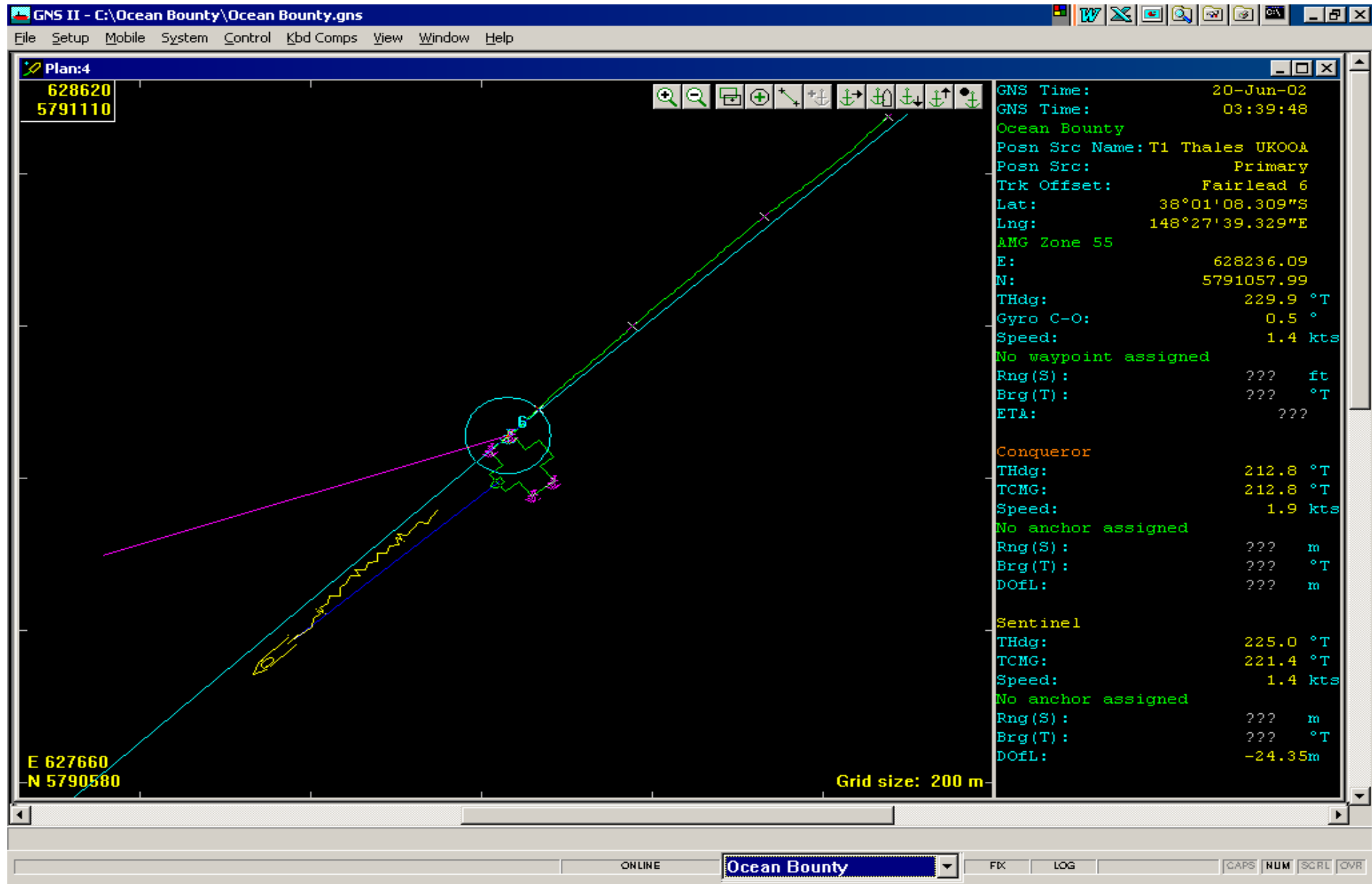


Anchor 5 – Pacific Conqueror

THALES Thales GeoSolutions (Australasia) Limited

Project: Baleen-3 Positioning Report of the Ocean Bounty

Client: OMV Australia

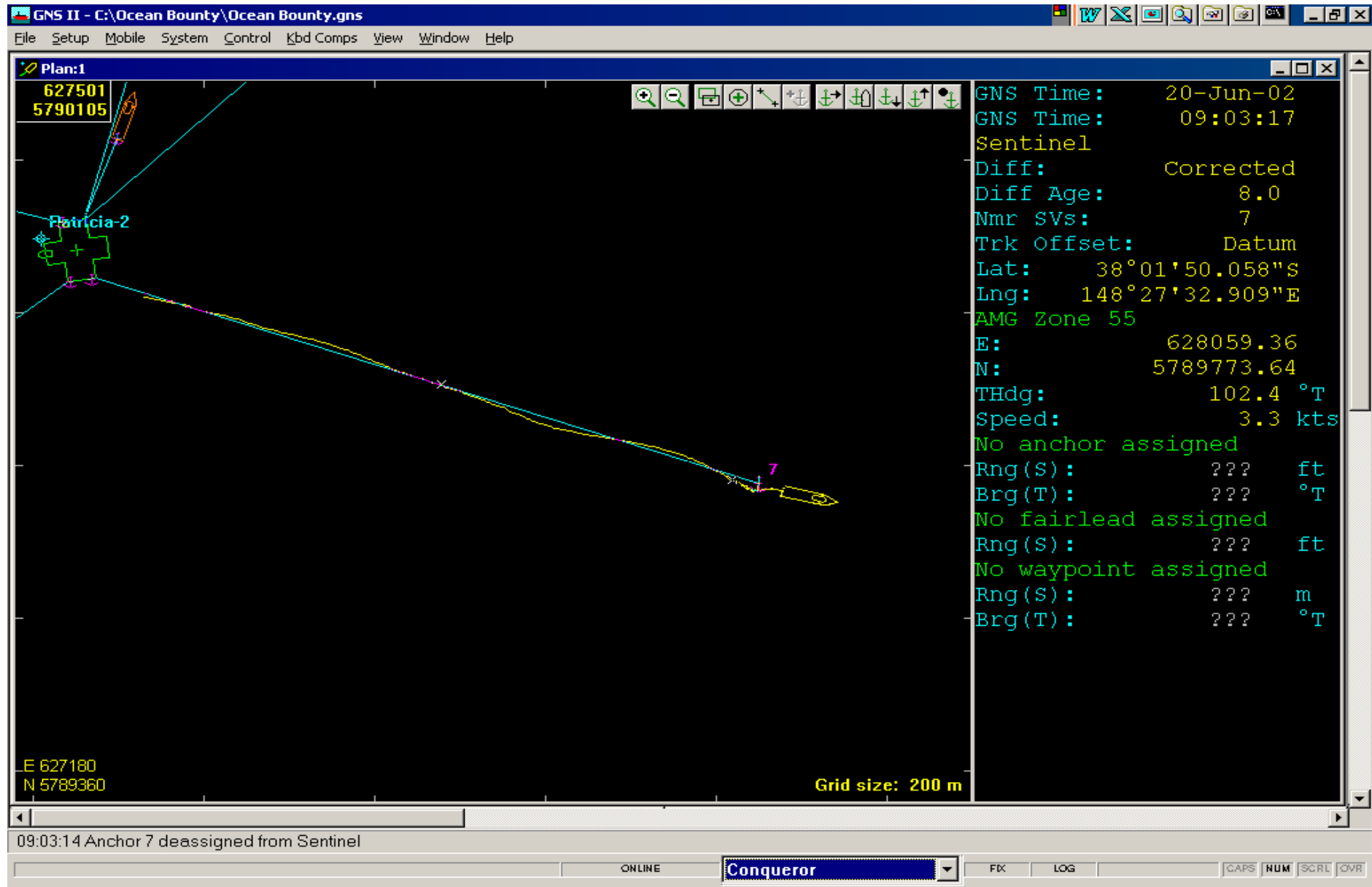


Anchor 6 – Ocean Bounty

THALES Thales GeoSolutions (Australasia) Limited

Project: Baleen-3 Positioning Report of the Ocean Bounty

Client: OMV Australia

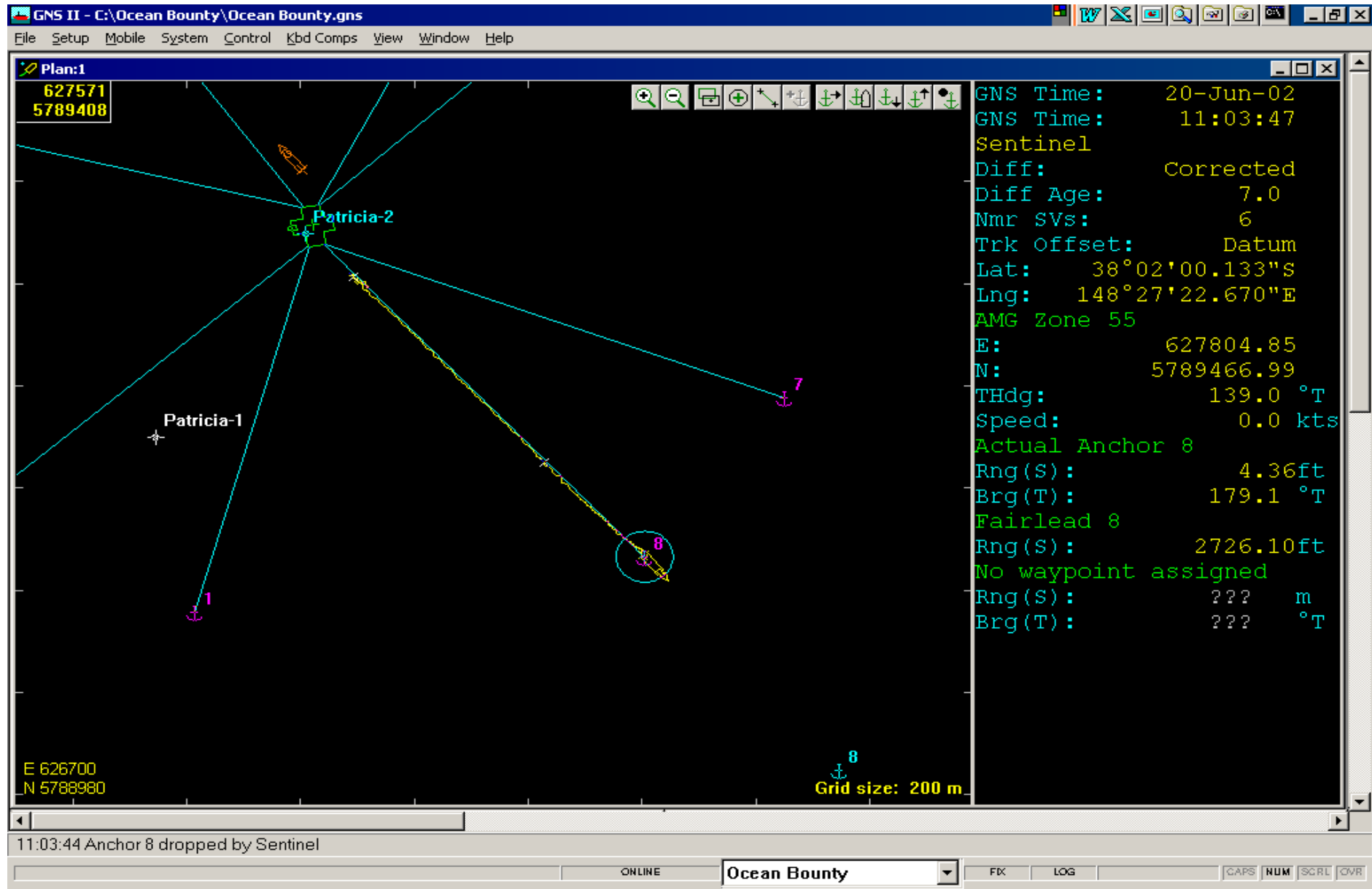


Anchor 7– Pacific Sentinel

THALES Thales GeoSolutions (Australasia) Limited

Project: Baleen-3 Positioning Report of the Ocean Bounty

Client: OMV Australia



Anchor 8 - Pacific Sentinel

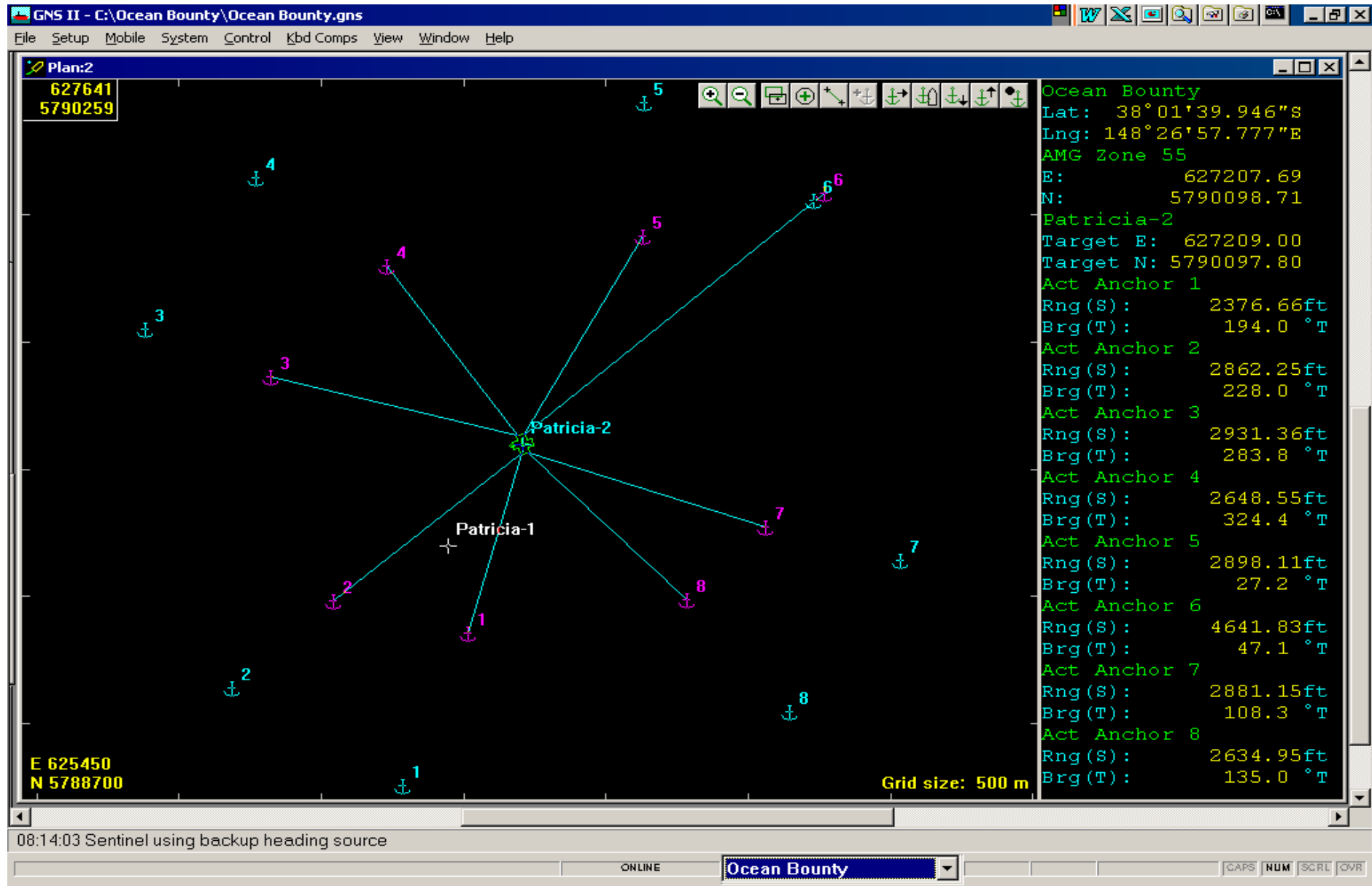
APPENDIX D

**OCEAN BOUNTY ANCHOR PATTERN DETAILS AT
PATRICIA-2**

THALES Thales GeoSolutions (Australasia) Limited

Project: Patricia-2 Positioning Report of the Ocean Bounty

Client: OMV Australia Pty Ltd



Anchor Pattern At Patricia-2

APPENDIX E

OCEAN BOUNTY ANCHOR CATENARY CALCULATIONS

THALES Thales GeoSolutions (Australasia) Limited

Project: Patricia-2 Positioning Report of the Ocean Bounty

Client: OMV Australia Pty Ltd

Ocean Bounty Catenary Control

Anchor 1 ON SEABED

Fairlead Cable
Out
Winch Counter Reading
 Manual: 2392 ft
 Counter: Not Available

Corr to Fairlead... 0.00 ft
Total (corrected): 2392.00 ft
On Seabed: 1311.11 ft
Suspended: 1080.89 ft

Tension
 Manual: 345 kips
 Tensionometer: Not Available
Current Value: 345.00 kips

Cable Components		
	Length	Wt (Wt/L)
Fairlead		
F'lead Seg 1	2392.00	91.00
Anchor		0.00
AHV to Anc	0.00	0.00

Anchor Handling Vessel Cable
Weight/Length... Out: 0 ft
Depth... 52.00 m View Section...
 Enable Comp Update Catenary

Anchor
Computed Actual
E: 627015.06 627014.86
N: 5789358.05 5789357.30
Depth: 170.83 ft 0.00 ft
Horizontal Range From Fairlead
Comp: 2376.66ft Act: 2379.21 ft
Computed Minus Actual: -2.54 ft
Brg From Fairlead
Comp: 194.0 °T Act: 194.0 °T
 Use Intended (Planning Only)
Transfer All Comp --> Actual

Touchdown Points
Point: 1 Down Total: 1
E: 627117.86 N: 5789744.15
Horiz Rng From F'lead: 1065.56 ft
Units... Close

Ocean Bounty Catenary Control

Anchor 2 ON SEABED

Fairlead Cable
Out
Winch Counter Reading
 Manual: 2879 ft
 Counter: Not Available

Corr to Fairlead... 0.00 ft
Total (corrected): 2879.00 ft
On Seabed: 1890.57 ft
Suspended: 988.43 ft

Tension
 Manual: 290 kips
 Tensionometer: Not Available
Current Value: 290.00 kips

Cable Components		
	Length	Wt (Wt/L)
Fairlead		
F'lead Seg 1	2879.00	91.00
Anchor		0.00
AHV to Anc	0.00	0.00

Anchor Handling Vessel Cable
Weight/Length... Out: 0 ft
Depth... 52.00 m View Section...
 Enable Comp Update Catenary

Anchor
Computed Actual
E: 626540.43 626547.70
N: 5789483.61 5789489.95
Depth: 170.65 ft 0.00 ft
Horizontal Range From Fairlead
Comp: 2862.26ft Act: 2830.58 ft
Computed Minus Actual: 31.68 ft
Brg From Fairlead
Comp: 228.0 °T Act: 228.0 °T
 Use Intended (Planning Only)
Transfer All Comp --> Actual

Touchdown Points
Point: 1 Down Total: 1
E: 626974.40 N: 5789862.54
Horiz Rng From F'lead: 971.68 ft
Units... Close

Ocean Bounty Catenary Control

Anchor 3 ON SEABED

Fairlead Cable
Out
Winch Counter Reading
 Manual: 2946 ft
 Counter: Not Available

Corr to Fairlead... 0.00 ft
Total (corrected): 2946.00 ft
On Seabed: 1819.55 ft
Suspended: 1126.45 ft

Tension
 Manual: 375 kips
 Tensionometer: Not Available
Current Value: 375.00 kips

Cable Components		
	Length	Wt (Wt/L)
Fairlead		
F'lead Seg 1	2946.00	91.00
Anchor		0.00
AHV to Anc	0.00	0.00

Anchor Handling Vessel Cable
Weight/Length... Out: 0 ft
Depth... 52.00 m View Section...
 Enable Comp Update Catenary

Anchor
Computed Actual
E: 626321.15 626313.45
N: 5790361.85 5790363.87
Depth: 170.43 ft 0.00 ft
Horizontal Range From Fairlead
Comp: 2931.36ft Act: 2957.49 ft
Computed Minus Actual: -26.12 ft
Brg From Fairlead
Comp: 283.8 °T Act: 283.8 °T
 Use Intended (Planning Only)
Transfer All Comp --> Actual

Touchdown Points
Point: 1 Down Total: 1
E: 626857.45 N: 5790220.99
Horiz Rng From F'lead: 1111.81 ft
Units... Close

THALES Thales GeoSolutions (Australasia) Limited

Project: Patricia-2 Positioning Report of the Ocean Bounty

Client: OMV Australia Pty Ltd

Ocean Bounty Catenary Control

Anchors
Anchor 4 ON SEABED

Fairlead Cable
Out
Winch Counter Reading
 Manual: 2733 ft
 Counter: Not Available
 Corr to Fairlead... -70.00 ft
 Total (corrected): 2663.00 ft
 On Seabed: 1521.15 ft
 Suspended: 1141.85 ft
 Tension
 Manual: 385 kips
 Tensionometer: Not Available
 Current Value: 385.00 kips

Cable Components

	Length	Wt (Wt/L)
Fairlead		
F'lead Seg 1	2663.00	91.00
Anchor		0.00
AHV to Anc	0.00	0.00

Add... Edit... Delete Last

Anchor Handling Vessel Cable
Weight/Length... Out: 0 ft
Depth... 52.00 m View Section...
 Enable Comp Update Catenary

Anchor
Computed Actual
 E: 626729.85 626717.77
 N: 5790799.27 5790816.73
 Depth: 170.48 ft 0.00 ft
 Horizontal Range From Fairlead
 Comp: 2648.55ft Act: 2718.23 ft
 Computed Minus Actual: -69.67 ft
 Brg From Fairlead
 Comp: 324.4 °T Act: 324.4 °T
 Use Intended (Planning Only)
 Transfer All Comp --> Actual

Touchdown Points
Point: 1 Down Total: 1
 E: 626993.61 N: 5790418.07
 Horiz Rng From F'lead: 1127.40 ft
 Units... Close

Ocean Bounty Catenary Control

Anchors
Anchor 5 ON SEABED

Fairlead Cable
Out
Winch Counter Reading
 Manual: 2915 ft
 Counter: Not Available
 Corr to Fairlead... 0.00 ft
 Total (corrected): 2915.00 ft
 On Seabed: 1935.45 ft
 Suspended: 979.55 ft
 Tension
 Manual: 285 kips
 Tensionometer: Not Available
 Current Value: 285.00 kips

Cable Components

	Length	Wt (Wt/L)
Fairlead		
F'lead Seg 1	2915.00	91.00
Anchor		0.00
AHV to Anc	0.00	0.00

Add... Edit... Delete Last

Anchor Handling Vessel Cable
Weight/Length... Out: 0 ft
Depth... 52.00 m View Section...
 Enable Comp Update Catenary

Anchor
Computed Actual
 E: 627629.74 627628.87
 N: 5790918.68 5790917.06
 Depth: 170.61 ft 0.00 ft
 Horizontal Range From Fairlead
 Comp: 2898.11ft Act: 2892.09 ft
 Computed Minus Actual: 6.02 ft
 Brg From Fairlead
 Comp: 27.2 °T Act: 27.2 °T
 Use Intended (Planning Only)
 Transfer All Comp --> Actual

Touchdown Points
Point: 1 Down Total: 1
 E: 627352.08 N: 5790398.31
 Horiz Rng From F'lead: 962.66 ft
 Units... Close

Ocean Bounty Catenary Control

Anchors
Anchor 6 ON SEABED

Fairlead Cable
Out
Winch Counter Reading
 Manual: 4658 ft
 Counter: Not Available
 Corr to Fairlead... 0.00 ft
 Total (corrected): 4658.00 ft
 On Seabed: 3635.14 ft
 Suspended: 1022.86 ft
 Tension
 Manual: 310 kips
 Tensionometer: Not Available
 Current Value: 310.00 kips

Cable Components

	Length	Wt (Wt/L)
Fairlead		
F'lead Seg 1	4658.00	91.00
Anchor		0.00
AHV to Anc	0.00	0.00

Add... Edit... Delete Last

Anchor Handling Vessel Cable
Weight/Length... Out: 0 ft
Depth... 52.00 m View Section...
 Enable Comp Update Catenary

Anchor
Computed Actual
 E: 628268.89 628233.62
 N: 5791086.91 5791055.14
 Depth: 170.67 ft 0.00 ft
 Horizontal Range From Fairlead
 Comp: 4641.82ft Act: 4486.04 ft
 Computed Minus Actual: 155.78 ft
 Brg From Fairlead
 Comp: 47.1 °T Act: 47.1 °T
 Use Intended (Planning Only)
 Transfer All Comp --> Actual

Touchdown Points
Point: 1 Down Total: 1
 E: 627445.85 N: 5790345.45
 Horiz Rng From F'lead: 1006.68 ft
 Units... Close

THALES Thales GeoSolutions (Australasia) Limited

Project: Patricia-2 Positioning Report of the Ocean Bounty

Client: OMV Australia Pty Ltd

Ocean Bounty Catenary Control

Anchor 7 ON SEABED

Fairlead Cable

Winch Counter Reading

Manual: 2902 ft

Counter: Not Available

Corr to Fairlead... 0.00 ft

Total (corrected): 2902.00 ft

On Seabed: 2107.67 ft

Suspended: 794.33 ft

Tension

Manual: 190 kips

Tensionometer: Not Available

Current Value: 190.00 kips

Cable Components

	Length	Wt (Wt/L)
Fairlead		
F'lead Seg 1	2902.00	91.00
Anchor		0.00
AHV to Anc	0.00	0.00

Buttons: Add... Edit... Delete Last

Anchor Handling Vessel Cable

Weight/Length... Out: 0 ft

Depth... 52.00 m View Section...

Enable Comp Update Catenary

Anchor

	Computed	Actual
E:	628059.36	628050.66
N:	5789773.64	5789776.67
Depth:	170.48 ft	0.00 ft
Horizontal Range From Fairlead		
Comp:	2881.15ft	Act: 2850.95 ft
Computed Minus Actual:	30.20 ft	
Brg From Fairlead		
Comp:	108.3 °T	Act: 108.3 °T
<input type="checkbox"/> Use Intended (Planning Only)		

Transfer All Comp --> Actual

Touchdown Points

Point: 1 Down Total: 1

E: 627452.82 N: 5789984.95

Horiz Rng From F'lead: 773.47 ft

Units... Close

Ocean Bounty Catenary Control

Anchor 8 ON SEABED

Fairlead Cable

Winch Counter Reading

Manual: 2653 ft

Counter: Not Available

Corr to Fairlead... 0.00 ft

Total (corrected): 2653.00 ft

On Seabed: 1737.74 ft

Suspended: 915.26 ft

Tension

Manual: 250 kips

Tensionometer: Not Available

Current Value: 250.00 kips

Cable Components

	Length	Wt (Wt/L)
Fairlead		
F'lead Seg 1	2653.00	91.00
Anchor		0.00
AHV to Anc	0.00	0.00

Buttons: Add... Edit... Delete Last

Anchor Handling Vessel Cable

Weight/Length... Out: 0 ft

Depth... 52.00 m View Section...

Enable Comp Update Catenary

Anchor

	Computed	Actual
E:	627785.48	627804.85
N:	5789485.62	5789465.66
Depth:	170.43 ft	0.00 ft
Horizontal Range From Fairlead		
Comp:	2634.95ft	Act: 2726.24 ft
Computed Minus Actual:	-91.29 ft	
Brg From Fairlead		
Comp:	135.0 °T	Act: 135.0 °T
<input type="checkbox"/> Use Intended (Planning Only)		

Transfer All Comp --> Actual

Touchdown Points

Point: 1 Down Total: 1

E: 627416.69 N: 5789865.66

Horiz Rng From F'lead: 897.22 ft

Units... Close

APPENDIX F

GYROCOMPASS CALIBRATION REPORT



Thales GeoSolutions (Australasia) Limited

ABN 82 000 601 909

Solar Observation for Azimuth (Hour Angle) 2002

Thales Job Number: 3382A3
 Job Description: Ocean Bounty Rig Move to Patricia-2
 Client: OMV Australia
 Party Chief: P.Malatzky
 Surveyor: P.Malatzky
 Rig Name: Ocean Bounty
 Date: 16 June 2002

Control Point Co-ordinates

Datum: WGS84 Projection: UTM Zone 55S CM 147° East

Latitude (DMS): -038 00 16
 Longitude (DMS): 148 26 37
 UTC Correction (HMS): 10.00

Total Station Observations:

Face	Local Time (HMS)			Observed Direction to R.O. (DMS)			Observed Direction to Sun (DMS)			Observed (O) True Heading (D.D)
Left	07	20	05	000	00	00	163	25	12	256.70
Right	07	20	05	180	00	00	343	25	12	
Left	07	20	35	000	00	00	163	17	12	256.80
Right	07	20	35	180	00	00	343	17	12	
Left	07	21	00	000	00	00	163	13	48	256.80
Right	07	21	00	180	00	00	343	13	48	
Left	07	21	45	000	00	00	163	02	36	256.80
Right	07	21	45	180	00	00	343	02	36	
Left	07	22	25	000	00	00	163	19	48	256.70
Right	07	22	25	180	00	00	343	19	48	
Left	07	23	05	000	00	00	162	37	24	256.20
Right	07	23	05	180	00	00	342	37	24	
Left	07	23	35	000	00	00	163	01	48	256.80
Right	07	23	35	180	00	00	343	01	48	
Left	07	24	25	000	00	00	162	26	36	257.00
Right	07	24	25	180	00	00	342	26	36	
Left	07	25	10	000	00	00	162	50	12	256.70
Right	07	25	10	180	00	00	342	50	12	
Left	07	25	52	000	00	00	162	37	12	256.80
Right	07	25	52	180	00	00	342	37	12	
Left										
Right										
Left										
Right										

Signature

 SURVEYOR/PARTY CHIEF

 CLIENT SURVEY REPRESENTATIVE



Thales GeoSolutions (Australasia) Limited

ABN 82 000 601 909

Solar Observation for Azimuth (Hour Angle) 2002

Thales Job Number: 3382A3
Job Description: Ocean Bounty Rig Move to Patricia-2
Client: OMV Australia
Party Chief: P.Malatzky
Surveyor: P.Malatzky
Rig Name: Ocean Bounty
Date: 16 June 2002

Datum: WGS84 Projection: UTM Zone 55S CM 147° East

Average Local Time (HMS)			Average Horizontal Angle (DMS)			Azimuth Sun (DMS)			Azimuth RO (DMS)			Calculated (C) True Heading (D.D)	Observed (O) True Heading (D.D)	C-O (D.D)
07	20	05.0	163	25	12	060	39	32	257	14	20	257.24	256.70	0.54
07	20	35.0	163	17	12	060	34	58	257	17	46	257.30	256.80	0.50
07	21	00.0	163	13	48	060	31	09	257	17	21	257.29	256.80	0.49
07	21	45.0	163	02	36	060	24	17	257	21	41	257.36	256.80	0.56
07	22	25.0	163	19	48	060	18	10	256	58	22	256.97	256.70	0.27
07	23	05.0	162	37	24	060	12	02	257	34	38	257.58	256.20	1.38
07	23	35.0	163	01	48	060	07	26	257	05	38	257.09	256.80	0.29
07	24	00.0	162	26	36	059	59	46	257	33	10	257.55	257.00	0.55
07	25	10.0	162	50	12	059	52	51	257	02	39	257.04	256.70	0.34
07	25	52.0	162	37	12	059	46	23	257	09	11	257.15	256.80	0.35

Mean C-O 0.53

Signature

SURVEYOR/PARTY CHIEF

CLIENT SURVEY REPRESENTATIVE

APPENDIX G

DIFFERENTIAL GPS CHECK

CHECK POSITION FIX – DIFFERENTIAL GPS

Job Description: Ocean Bounty to Patricia-2
Job Number: 3382A3
Thales Surveyor: P.Malatzky
Client: OMV Australia
Client Representative: W.Edmonds

Sampling started: 16 Jun 2002 11:13:27
Sampling end: 16 Jun 2002 11:23:20

Ocean Bounty

Intended datum location

Datum: AGD 1966
Latitude: 38°00'20.986"S Longitude: 148°26'34.415"E
Projection: AMG Zone 55
Easting: 626675.86 m Northing: 5792541.30 m

Final Antenna Position (T1 Thales UKOOA):

Sample size: 120 fixes used out of a total of 120.

Antenna offset

X: 0.28m Y: 33.90m Z: 20.00m
Range: 33.90m Rel Brg from datum to antenna: 0.5°

Datum: WGS 84
Latitude: 38°00'15.654"S Longitude: 148°26'37.577"E Spheroidal Ht: 45.40m
Datum: AGD 1966
Latitude: 38°00'21.181"S Longitude: 148°26'33.056"E Spheroidal Ht: 52.26m
Projection: AMG Zone 55
Easting: 626642.61 Northing: 5792535.81 Spheroidal Ht: 52.26m

Standard deviations

Long or E: 0.95m
Lat or N: 0.80m
Height: 0.39m
Position: 1.24m

Final Datum Position

Datum: AGD 1966
Latitude: 38°00'20.884"S Longitude: 148°26'34.394"E

Projection: AMG Zone 55
Easting: 626675.39 m Northing: 5792544.46 m

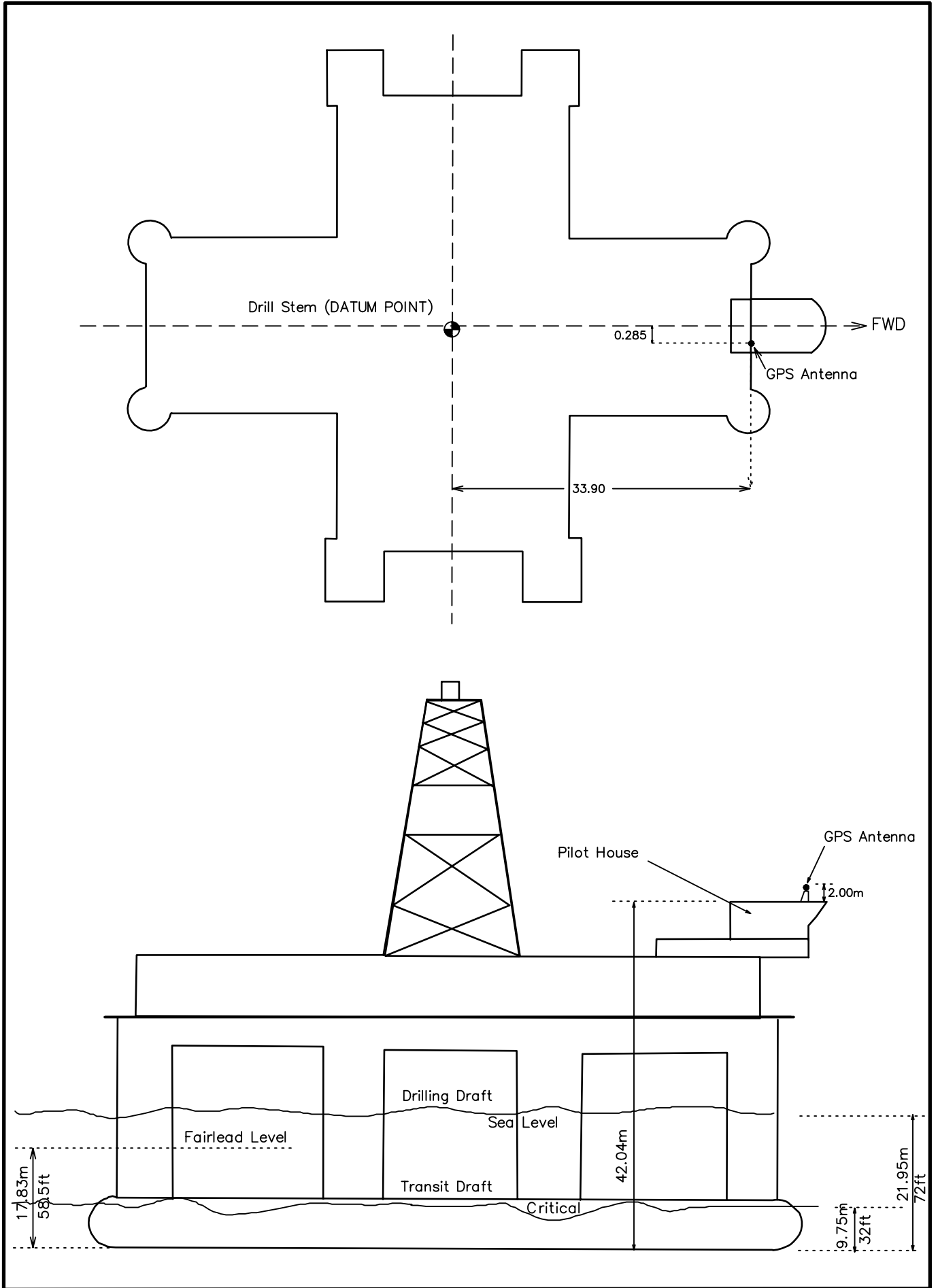
Mean corrected heading: 253.9°T
SD heading: 0.6°T
Intended heading: 257.6°T
Difference from intended: -3.7°
Gyro C-O: 0.5°
Convergence: -0.89°

Final Datum Position is 3.20m on a bearing of 350.7°T (351.6°G) from the published location.

APPENDIX H

OCEAN BOUNTY OFFSET DIAGRAM

OCEAN BOUNTY OFFSET DIAGRAM

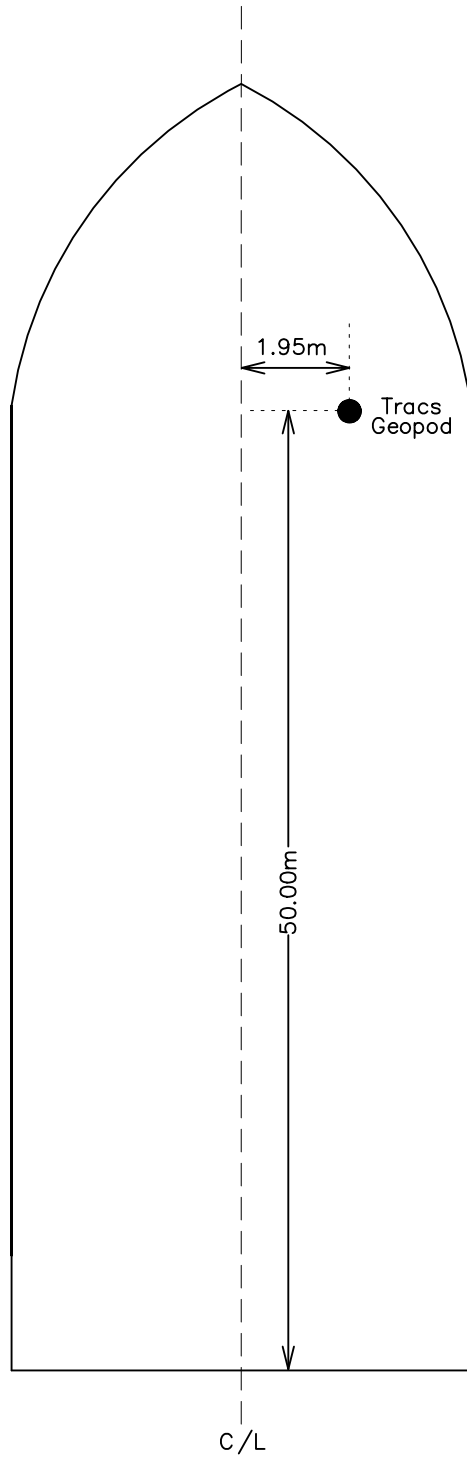


NOT TO SCALE

APPENDIX I

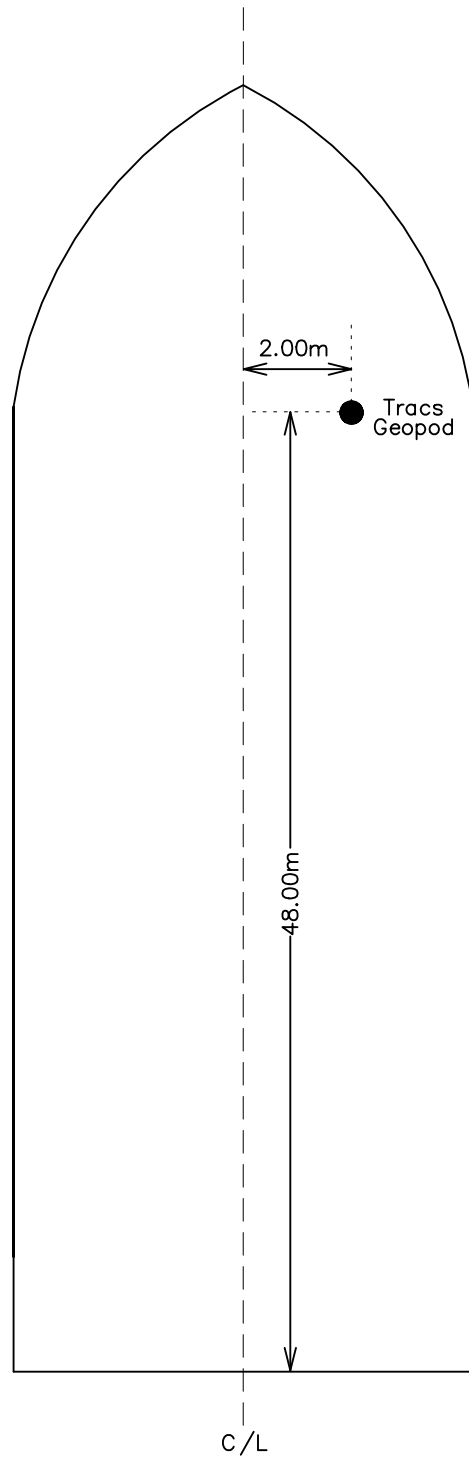
PACIFIC SENTINEL AND PACIFIC CONQUEROR OFFSET DIAGRAMS

PACIFIC SENTINEL



(NOT TO SCALE)

PACIFIC CONQUEROR



(NOT TO SCALE)

APPENDIX J

GNS2 CONFIGURATION FILE PRINTOUT

GNS II CONFIGURATION FILE C:\Ocean Bounty\Ocean Bounty.gns

JOB DETAILS

Job Number : 3382A3/
Job Description : Ocean Bounty to Patricia-2/
Company : Thales GeoSolutions Group Ltd
Client : OMV/
Time Zone : GMT +10:00 /

WORKING SPHEROID

AGD 1966
Semi-major : 6378160.000 m /
e Squared : 0.006694541855 /

WORKING PROJECTION

AMG Zone 55
Lat of Origin : 00°00'00.000"N /
Long of Origin : 147°00'00.000"E /
False Easting : 500000.00 /
False Northing : 10000000.00 /
Scale Factor : 0.999600 /
Units : Metres

GPS TRANSFORMATION

From : WGS 84
Semi-major : 6378137.000 m /
e Squared : 0.006694380067 /
To : AGD 1966 /
Dx : 123.314 m
Dy : 47.223 m
Dz : -136.594 m
Rot x : 0.2640 secs
Rot y : 0.3220 secs
Rot z : 0.2700 secs /
Scale : 1.3840 ppm

WAYPOINTS

Baleen-1	E: 626048.80	N: 5792058.60	Ht: 0.00 m			
Baleen-3	E: 626676.40	N: 5792539.70	Ht: 0.00 m	Toll: 5.00 m	Toll: 5.00 m	/
Patricia-1	E: 626947.80	N: 5789695.40	Ht: 0.00 m	Toll: 5.00 m	Toll: 5.00 m	/
Patricia-2	E: 627209.00	N: 5790097.80	Ht: 0.00 m	Toll: 5.00 m	Toll: 5.00 m	/
West Tuna	E: 621503.10	N: 5771736.08	Ht: 0.00 m			
Run In	E: 632352.85	N: 5794780.59	Ht: 0.00 m			/

TRACK GUIDANCE

None defined

MOBILES

Ocean Bounty (semi-sub rig)
Shape Definition: Ocean Bounty
Line:-
X: 14.20 m Y: 37.00 m
X: 14.20 m Y: 16.60 m
X: 39.30 m Y: 16.60 m

Verified by: (sign) N. Colwell (print) _____

GNS II CONFIGURATION FILE C:\Ocean Bounty\Ocean Bounty.gns

X: 39.30 m Y: -16.60 m
X: 14.20 m Y: -16.60 m
X: 14.20 m Y: -36.20 m
X: -14.20 m Y: -36.20 m
X: -14.20 m Y: -16.60 m
X: -39.30 m Y: -16.60 m
X: -39.30 m Y: 16.00 m
X: -14.20 m Y: 16.00 m
X: -14.20 m Y: 37.00 m
X: 14.20 m Y: 37.00 m

Line:-

X: -4.00 m Y: 30.00 m
X: 4.00 m Y: 30.00 m
X: 4.00 m Y: 41.00 m
X: 2.00 m Y: 45.00 m
X: -2.00 m Y: 45.00 m
X: -4.00 m Y: 41.00 m
X: -4.00 m Y: 30.00 m

Tracking Point : Datum
Pitch and Roll Centre: Datum

Selected Sources:-

Primary Position : T1 Thales UKOOA (Using Antenna Offset : GPS Ae)
Backup Position : T2 Thales UKOOA (Using Antenna Offset : GPS Ae)
Primary Heading : S1 SGB 1000S
Primary Height : Datum Displacement
Pitch and Roll : Manual
Soundings : Manual
Speed : Position Filter
Course Made Good : Posn Filter CMG

Equipment:-

T1 Thales UKOOA

Status: ON Interface: Sock1
Antenna Offset Selected: GPS Ae
X: 0.28 m Y: 33.90 m Z: 20.00 m Rng: 33.90 m Brg: 0.5°
Apply Pitch Roll: Off Stale Time: 5.0 s Posn SD: 3.0 m Ht SD: 1.0 m
Update posn only when diff corrected
Filter: Off Time Constant:60.0 s Sample Dwell: 0.5 s
Gate: Off Gate Width: 9.0 xSD Minimum Gate: 0.0 m

T2 Thales UKOOA

Status: ON Interface: Sock2
Antenna Offset Selected: GPS Ae
X: 0.28 m Y: 33.90 m Z: 20.00 m Rng: 33.90 m Brg: 0.5°
Apply Pitch Roll: Off Stale Time: 5.0 s Posn SD: 3.0 m Ht SD: 1.0 m
Update posn regardless of whether diff corrected
Filter: Off Time Constant:60.0 s Sample Dwell: 0.5 s
Gate: Off Gate Width: 9.0 xSD Minimum Gate: 0.0 m

S1 SGB 1000S

Status: ON Interface: COM6
C-O: 0.5 degs Stale Time: 5.0 s SD: 0.1 degs

Verified by: (sign) _____ (print) _____

GNS II CONFIGURATION FILE C:\Ocean Bounty\Ocean Bounty.gns

Filter: Off Gate: Off Time Constant: 5.0 s Sample Dwell: 0.5 s

T3 Tracs TDMA Master

Status: ON Interface: COM10

Antenna Offset Selected: GPS Ae

X: 0.28 m Y: 33.90 m Z: 20.00 m Rng: 33.90 m Brg: 0.5°

Defined Offsets:-

Datum

X: 0.00 m Y: 0.00 m Z: 0.00 m Rng: 0.00 m Brg: 0.0°

GPS Ae

X: 0.28 m Y: 33.90 m Z: 20.00 m Rng: 33.90 m Brg: 0.5°

Fairlead 1

X: -39.30 m Y: 12.60 m Z: -4.11 m Rng: 41.27 m Brg:287.8°

Fairlead 2

X: -39.30 m Y: 16.60 m Z: -4.11 m Rng: 42.66 m Brg:292.9°

Fairlead 3

X: 39.30 m Y: 16.60 m Z: -4.11 m Rng: 42.66 m Brg: 67.1°

Fairlead 4

X: 39.30 m Y: 12.60 m Z: -4.11 m Rng: 41.27 m Brg: 72.2°

Fairlead 5

X: 39.30 m Y: -12.60 m Z: -4.11 m Rng: 41.27 m Brg:107.8°

Fairlead 6

X: 39.30 m Y: -16.60 m Z: -4.11 m Rng: 42.66 m Brg:112.9°

Fairlead 7

X: -39.30 m Y: -16.60 m Z: -4.11 m Rng: 42.66 m Brg:247.1°

Fairlead 8

X: -39.30 m Y: -12.60 m Z: -4.11 m Rng: 41.27 m Brg:252.2°

Conqueror (ship)

Shape Definition: Pac Conquerer

Line:-

X: -6.80 m Y: 0.00 m

X: -6.80 m Y: 49.40 m

X: 0.00 m Y: 65.00 m

X: 6.80 m Y: 49.40 m

X: 6.80 m Y: 0.00 m

X: -6.80 m Y: 0.00 m

Line:-

X: -1.50 m Y: 35.00 m

X: -3.50 m Y: 37.00 m

X: -3.50 m Y: 45.00 m

X: -6.00 m Y: 45.00 m

X: -6.00 m Y: 47.00 m

X: -3.50 m Y: 47.00 m

X: -3.50 m Y: 49.00 m

X: -2.00 m Y: 51.00 m

X: 2.00 m Y: 51.00 m

X: 3.50 m Y: 49.00 m

X: 3.50 m Y: 47.00 m

X: 6.00 m Y: 47.00 m

X: 6.00 m Y: 45.00 m

X: 3.50 m Y: 45.00 m

X: 3.50 m Y: 37.00 m

Verified by: (sign) _____ (print) _____

GNS II CONFIGURATION FILE C:\Ocean Bounty\Ocean Bounty.gns

X: 1.50 m Y: 35.00 m
X: -1.50 m Y: 35.00 m

Tracking Point : Datum
Pitch and Roll Centre: Datum

Selected Sources:-

Primary Position : T4 Tracs TDMA Remote (Using Antenna Offset : Pod)
Primary Heading : T4 Tracs TDMA Remote
Primary Height : Datum Displacement
Pitch and Roll : Manual
Soundings : Manual
Speed : T4 Tracs TDMA Remote
Course Made Good : Posn Filter CMG

Equipment:-

T4 Tracs TDMA Remote
Status: ON Interface: Not defined
Antenna Offset Selected: Pod
X: 2.00 m Y: 48.00 m Z: 0.00 m Rng: 48.04 m Brg: 2.4°

Defined Offsets:-

Datum
X: 0.00 m Y: 0.00 m Z: 0.00 m Rng: 0.00 m Brg: 0.0°
Pod
X: 2.00 m Y: 48.00 m Z: 0.00 m Rng: 48.04 m Brg: 2.4°

Sentinel (ship)

Shape Definition: Pac Sentinel

Line:-

X: -6.80 m Y: 0.00 m
X: -6.80 m Y: 49.40 m
X: 0.00 m Y: 65.00 m
X: 6.80 m Y: 49.40 m
X: 6.80 m Y: 0.00 m
X: -6.80 m Y: 0.00 m

Line:-

X: -1.50 m Y: 35.00 m
X: -3.50 m Y: 37.00 m
X: -3.50 m Y: 45.00 m
X: -6.00 m Y: 45.00 m
X: -6.00 m Y: 47.00 m
X: -3.50 m Y: 47.00 m
X: -3.50 m Y: 49.00 m
X: -2.00 m Y: 51.00 m
X: 2.00 m Y: 51.00 m
X: 3.50 m Y: 49.00 m
X: 3.50 m Y: 47.00 m
X: 6.00 m Y: 47.00 m
X: 6.00 m Y: 45.00 m
X: 3.50 m Y: 45.00 m
X: 3.50 m Y: 37.00 m
X: 1.50 m Y: 35.00 m
X: -1.50 m Y: 35.00 m

Verified by: (sign) _____ (print) _____

GNS II CONFIGURATION FILE C:\Ocean Bounty\Ocean Bounty.gns

Tracking Point : Datum
 Pitch and Roll Centre: Datum

Selected Sources:-

Primary Position : T5 Tracs TDMA Remote (Using Antenna Offset : Pod)
 Primary Heading : T5 Tracs TDMA Remote
 Primary Height : Datum Displacement
 Pitch and Roll : Manual
 Soundings : Manual
 Speed : Position Filter
 Course Made Good : Posn Filter CMG

Equipment:-

T5 Tracs TDMA Remote
 Status: ON Interface: Not defined
 Antenna Offset Selected: Pod
 X: 1.95 m Y: 50.00 m Z: 0.00 m Rng: 50.04 m Brg: 2.2°

Defined Offsets:-

Datum
 X: 0.00 m Y: 0.00 m Z: 0.00 m Rng: 0.00 m Brg: 0.0°
 Pod
 X: 1.95 m Y: 50.00 m Z: 0.00 m Rng: 50.04 m Brg: 2.2°

ANCHORS

Ocean Bounty

Fairleads:-

Name	X	Y	Z	Rng	Brg
Fairlead 1	-39.30 m	12.60 m	-4.11 m	41.27 m	287.8°
Fairlead 2	-39.30 m	16.60 m	-4.11 m	42.66 m	292.9°
Fairlead 3	39.30 m	16.60 m	-4.11 m	42.66 m	67.1°
Fairlead 4	39.30 m	12.60 m	-4.11 m	41.27 m	72.2°
Fairlead 5	39.30 m	-12.60 m	-4.11 m	41.27 m	107.8°
Fairlead 6	39.30 m	-16.60 m	-4.11 m	42.66 m	112.9°
Fairlead 7	-39.30 m	-16.60 m	-4.11 m	42.66 m	247.1°
Fairlead 8	-39.30 m	-12.60 m	-4.11 m	41.27 m	252.2°

Main Intended Positions:-

Name	Easting	Northing	Depth	Tolerance
Anchor 1	626784.89	5788755.74	0.00 m	0.00 m
Anchor 2	626186.75	5789139.22	0.00 m	50.00 m
Anchor 3	625883.53	5790552.77	0.00 m	50.00 m
Anchor 4	626271.76	5791147.83	0.00 m	50.00 m
Anchor 5	627633.11	5791439.86	0.00 m	50.00 m
Anchor 6	628231.25	5791056.38	0.00 m	50.00 m
Anchor 7	628534.47	5789642.82	0.00 m	50.00 m
Anchor 8	628146.24	5789047.76	0.00 m	50.00 m

Main Actual Positions:-

Name	Easting	Northing	Depth	Tolerance
Anchor 1	626348.17	5791775.75	51.99 m	0.00 m

Verified by: (sign) _____ (print) _____

GNS II CONFIGURATION FILE C:\Ocean Bounty\Ocean Bounty.gns

Anchor 2	625834.55	5791914.60	52.00 m	50.00 m
Anchor 3	625685.61	5792890.32	51.99 m	50.00 m
Anchor 4	625992.79	5793274.98	52.07 m	50.00 m
Anchor 5	626878.74	5793328.39	51.95 m	50.00 m
Anchor 6	627620.20	5793415.45	52.01 m	50.00 m
Anchor 7	627574.33	5792207.29	51.99 m	50.00 m
Anchor 8	627345.21	5791787.89	52.00 m	50.00 m

Verified by: (sign) _____ (print) _____

10:43 16-Jun-2002

Page 6 of 6

APPENDIX K

DAILY REPORT SHEETS

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED DAILY RECORD SHEET

Date: **13 June 2002** Client: **OMV Australia** Job No.: **3382A3** Vessel: **Ocean Bounty** Location: **Patricia-2**

Equipment	Op	B/up	Equipment	Op	B/up	Thales Personnel		0600	1200	1800	2400
GPS			Echo Sounder			Paul Malatzky (PM)					
SkyFix			Sidescan			Steve Bradley (SB)	Swell				
SkyFix Spot			Pinger				Sea				
Gyro			Boomer				Wind				
GNS 2			Heave Comp				Bar				
MultiFix 3			Velocity Probe			Client Personnel	Temp				
Remote			CODA			Bill Edmonds					
Sextant											
Tracs TDMA											

TIME	Time Zone = UTC + 10.0 <u>Thursday 13 June, 2002</u>
0915	Thales personnel PM and SB depart Perth Domestic Airport for Melbourne.
1430	Thales personnel arrive in Melbourne.
1530	Check in at the Holiday Inn Melbourne.
1600	Advised by Thales operationis in Perth, transfer to rig delayed until Saturday 15 June 2002.

Forms are to be completed daily in duplicate on all vessels. Each form should be countersigned by the Clients Representative, the original being retained on board until the next crew change or at the end of job, whichever is the earlier, when they should be returned to the PERTH office.

Signature _____ SURVEYOR Signature _____ CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED

DAILY RECORD SHEET

Date: **15 June 2002** Client: **OMV Australia** Job No.: **3382A3** Vessel: **Ocean Bounty** Location: **Patricia-2**

Equipment	Op	B/up	Equipment	Op	B/up	Thales Personnel		0600	1200	1800	2400
GPS	✓		Echo Sounder			Paul Malatzky (PM)	Swell				
SkyFix	✓		Sidescan			Steve Bradley (SB)					
SkyFix Spot	✓		Pinger				Sea				
Gyro	✓		Boomer								
GNS 2	✓		Heave Comp				Wind				
MultiFix 3	✓		Velocity Probe								
Remote	✓		CODA				Bar				
Sextant	✓					Client Personnel					
Tracs TDMA	✓					Bill Edmonds	Temp				

DIARY OF OPERATIONS

TIME	Time Zone = UTC + 10.0 Saturday 15 June, 2002
0600	PM and SB check out of the Holiday Inn Melbourne.
0630	PM and SB check in at Bristow Helicopters Essendon airport.
0700	Attend Bristow Helicopters pre flight safety briefing.
0715	Departure to Ocean Bounty delayed to 0930.
0930	Departure to Ocean Bounty delayed to 1200.
1205	Depart Essendon airport for the Ocean Bounty at the Baleen-3 location.
1315	Arrive onboard the Ocean bounty at the Baleen-3 location.
1400	Locate Thales equipment container, standby for container to be moved in vicinity of pilot house.
1430	Anchor recovery expected to commence afternoon of 16 June 2002.
1600	Confirm with client representative Bill Edmonds, intended Patricia-2 location to be AGD66 co-ordinates 38° 01' 39.97" South 148° 26' 57.83" East, AMG Zone 55, 627 209.00m East 5 790 097.80m North.
1800	Commence mobilisation of Thales equipment.
1930	Thales equipment operational.
2359	Standby for anchor recovery to commence.

Forms are to be completed daily in duplicate on all vessels. Each form should be countersigned by the Clients Representative, the original being retained on board until the next crew change or at the end of job, whichever is the earlier, when they should be returned to the PERTH office.

Signature _____
SURVEYOR

Signature _____
CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED

DAILY RECORD SHEET

Date: **16 June 2002** Client: **OMV Australia** Job No.: **3382A3** Vessel: **Ocean Bounty** Location: **Patricia-2**

Equipment	Op	B/up	Equipment	Op	B/up	Thales Personnel		0600	1200	1800	2400
GPS	✓		Echo Sounder			Paul Malatzky (PM)	Swell				
SkyFix	✓		Sidescan			Steve Bradley (SB)					
SkyFix Spot	✓		Pinger				Sea				
Gyro	✓		Boomer								
GNS 2	✓		Heave Comp				Wind				
MultiFix 3	✓		Velocity Probe								
Remote	✓		CODA				Bar				
Sextant	✓					Client Personnel					
Tracs TDMA	✓					Bill Edmonds	Temp				

DIARY OF OPERATIONS

PAGE 4 OF 12

TIME	Time Zone = UTC + 10.0 <u>Sunday 16 June, 2002</u>
0720	Commence solar azimuth observations.
0730	Conclude solar azimuth observations.
0800	Calculate gyrocompass C-O value of +0.5 and enter into GNS II.
0930	Thales systems including TRACS in fully operational. Flux gate compass on Conqueror faulty.
1130	PM and SB attend daily pre-tour meeting.
1230	PM and SB attend the pre-rig move meeting onboard the Ocean Bounty. Procedure of the move discussed. Anchor 6 confirmed as run in anchor, distance of 2nm. All advised of location of Patricia-1 well head. Anchor recovery expected to commence 1800hrs
1400	Contacted Thales operations manager N.McKay with a project update.
1800	Anchor recovery delayed.
2230	Thales personnel participate in the fire and abandon rig drill onboard the Ocean Bounty.
2359	Standby for anchor recovery to commence.

Forms are to be completed daily in duplicate on all vessels. Each form should be countersigned by the Clients Representative, the original being retained on board until the next crew change or at the end of job, whichever is the earlier, when they should be returned to the PERTH office.

Signature _____ SURVEYOR

Signature _____ CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED

DAILY RECORD SHEET

Date: **17 June 2002** Client: **OMV Australia** Job No.: **3382A3** Vessel: **Ocean Bounty** Location: **Patricia-2**

Equipment	Op	B/up	Equipment	Op	B/up	Thales Personnel		0600	1200	1800	2400
GPS	✓		Echo Sounder			Paul Malatzky (PM)	Swell				
SkyFix	✓		Sidescan			Steve Bradley (SB)					
SkyFix Spot	✓		Pinger				Sea				
Gyro	✓		Boomer				Wind				
GNS 2	✓		Heave Comp				Bar				
MultiFix 3	✓		Velocity Probe			Client Personnel	Temp				
Remote	✓		CODA			Bill Edmonds					
Sextant	✓										
Tracs TDMA	✓										

DIARY OF OPERATIONS

PAGE 5 OF 12

TIME	Time Zone = UTC + 10.0 <u>Monday 17 June, 2002</u>
0001	Ocean Bounty has AC generator fail.
0300	Standby for anchor recovery to commence.
0600	Standby for anchor recovery to commence.
0815	AC generator operational
1130	PM and SB attend daily pre-tour meeting.
1200	Standby for anchor recovery operations to commence. ROV to complete subsea work, weather marginal and affecting operations.
1800	Standby for anchor recovery to commence.
2359	Standby for anchor recovery to commence.

Forms are to be completed daily in duplicate on all vessels. Each form should be countersigned by the Clients Representative, the original being retained on board until the next crew change or at the end of job, whichever is the earlier, when they should be returned to the PERTH office.

Signature _____
SURVEYOR

Signature _____
CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED

DAILY RECORD SHEET

Date: **18 June 2002** Client: **OMV Australia** Job No.: **3382A3** Vessel: **Ocean Bounty** Location: **Patricia-2**

Equipment	Op	B/up	Equipment	Op	B/up	Thales Personnel		0600	1200	1800	2400
GPS	✓		Echo Sounder			Paul Malatzky (PM)	Swell				
SkyFix	✓		Sidescan			Steve Bradley (SB)					
SkyFix Spot	✓		Pinger				Sea				
Gyro	✓		Boomer				Wind				
GNS 2	✓		Heave Comp				Bar				
MultiFix 3	✓		Velocity Probe			Client Personnel	Temp				
Remote	✓		CODA			Bill Edmonds					
Sextant	✓										
Tracs TDMA	✓										

DIARY OF OPERATIONS

PAGE 6 OF 12

TIME	Time Zone = UTC + 10.0 <u>Tuesday 18 June, 2002</u>
0001	Standby for anchor recovery to commence.
0600	Standby for anchor recovery to commence.
1130	PM and SB attend daily pre-tour meeting.
1200	Standby for anchor recovery operations to commence. ROV to complete subsea work, weather marginal and affecting operations.
1800	Standby for anchor recovery to commence.
1845	Contacted Thales operations manager N.McKay with a project update.
2359	Standby for anchor recovery to commence.

Forms are to be completed daily in duplicate on all vessels. Each form should be countersigned by the Clients Representative, the original being retained on board until the next crew change or at the end of job, whichever is the earlier, when they should be returned to the PERTH office.

Signature _____

SURVEYOR

Signature _____
 CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED

DAILY RECORD SHEET

Date: **19 June 2002** Client: **OMV Australia** Job No.: **3382A3** Vessel: **Ocean Bounty** Location: **Patricia-2**

Equipment	Op	B/up	Equipment	Op	B/up	Thales Personnel		0600	1200	1800	2400
GPS	✓		Echo Sounder			Paul Malatzky (PM)	Swell				
SkyFix	✓		Sidescan			Steve Bradley (SB)					
SkyFix Spot	✓		Pinger				Sea				
Gyro	✓		Boomer								
GNS 2	✓		Heave Comp				Wind				
MultiFix 3	✓		Velocity Probe								
Remote	✓		CODA				Bar				
Sextant	✓					Client Personnel					
Tracs TDMA	✓					Bill Edmonds	Temp				

DIARY OF OPERATIONS

PAGE 7 OF 12

TIME	Time Zone = UTC + 10.0 <u>Wednesday 19 June, 2002</u>
0001	Standby for anchor recovery operations to commence.
0422	# 8 PCC passed to the Conqueror.
0425	Conqueror chases out # 8.
0426	# 4 PCC passed to the Sentinel.
0445	ROV Recovering.
0515	# 8 Off the bottom, commences heaving in.
0520	# 4 Off the bottom, commences heaving in.
0630	# 8 PCC returned to the rig.
0637	# 1 PCC passed to the Conqueror.
0640	# 4 PCC returned to the rig.
0645	Conqueror chases out # 1.
0654	# 5 PCC passed to the Sentinel.
0703	Sentinel chases out # 5.
0804	# 1 PCC returned to the rig.
0815	# 2 PCC passed to the Conqueror.
0825	# 5 PCC returned to the rig.
0826	Conqueror chases out # 2.
0855	# 2 PCC parts from wire.
0922	Sentinel is connected to the main tow bridle.
1005	Conqueror collects # 2 chain with "J" hook and chases out.
1030	Conqueror decks # 2.

Forms are to be completed daily in duplicate on all vessels. Each form should be countersigned by the Clients Representative, the original being retained on board until the next crew change or at the end of job, whichever is the earlier, when they should be returned to the PERTH office.

Signature _____
SURVEYOR

Signature _____
CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED

DAILY RECORD SHEET

Date: **19 June 2002** Client: **OMV Australia** Job No.: **3382A3** Vessel: **Ocean Bounty** Location: **Patricia-2**

Equipment	Op	B/up	Equipment	Op	B/up	Thales Personnel		0600	1200	1800	2400
GPS	✓		Echo Sounder			Paul Malatzky (PM)	Swell				
SkyFix	✓		Sidescan			Steve Bradley (SB)					
SkyFix Spot	✓		Pinger				Sea				
Gyro	✓		Boomer				Wind				
GNS 2	✓		Heave Comp				Bar				
MultiFix 3	✓		Velocity Probe				Temp				
Remote	✓		CODA			Client Personnel					
Sextant	✓					Bill Edmonds					
Tracs TDMA	✓										

DIARY OF OPERATIONS

PAGE 8 OF 12

TIME	Time Zone = UTC + 10.0 <u>Wednesday 19 June, 2002 Continued.....</u>
1035	# 2 off the bottom, commences heaving in.
1150	# 2 PCC returned to the rig.
1155	Anchor recovery operations temporarily halted. ROV to return to water.
1235	Ocean Bounty manoeuvres near Baleen-3 to assist ROV operations .
1300	PM attends the weekly safety meeting onboard the Ocean Bounty.
1730	SB attends daily pre-tour meeting.
1900	SB attends the weekly safety meeting onboard the Ocean Bounty.
1944	# 3 PCC passed to the Conqueror.
1950	Conqueror chases out # 3.
1952	Commence heaving in on # 6 to clear Ocean Bounty of Baleen-3 well head.
2032	# 2 Off the bottom, commences heaving in.
2157	#3 PCC returned to rig
2208	#7 PCC passed to Conqueror
2245	#7 Commence heave in
2310	#6 Rig commences heave in
2323	#7 PCC returned to the rig
2400	#6 Rig continues heave in last anchor.

Forms are to be completed daily in duplicate on all vessels. Each form should be countersigned by the Clients Representative, the original being retained on board until the next crew change or at the end of job, whichever is the earlier, when they should be returned to the PERTH office.

Signature _____
SURVEYOR

Signature _____
CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED

DAILY RECORD SHEET

Date: **20 June 2002** Client: **OMV Australia** Job No.: **3382A3** Vessel: **Ocean Bounty** Location: **Patricia-2**

Equipment	Op	B/up	Equipment	Op	B/up	Thales Personnel		0600	1200	1800	2400
GPS	✓		Echo Sounder			Paul Malatzky (PM)	Swell				
SkyFix	✓		Sidescan			Steve Bradley (SB)					
SkyFix Spot	✓		Pinger				Sea				
Gyro	✓		Boomer								
GNS 2	✓		Heave Comp				Wind				
MultiFix 3	✓		Velocity Probe								
Remote	✓		CODA				Bar				
Sextant	✓					Client Personnel					
Tracs TDMA	✓					Bill Edmonds	Temp				

DIARY OF OPERATIONS

PAGE 9 OF 12

TIME	Time Zone = UTC + 10.0 <u>Thursday 20 June, 2002</u>
0030	#6 Anchor off the bottom. Rig undertow by Sentinel departs for Patricia-2 run in.
0200	Tow continues, rig at 2 mile Run-in point
0338	Ocean Bounty drops # 6.
0340	# 6 on the bottom, position 628 233mE 5 791 055mN
0420	Ocean Bounty over Patricia-2 location. Over running 500ft to allow deployment of # 2 and # 3.
0425	All stop on # 6, 500ft past Patricia-2 preparing to run # 2.
0442	# 2 PCC passed to the Conqueror.
0503	Conqueror runs out # 2
0510	# 2 on the bottom, position 626 591mE 5 789 565mN
0530	# 2 not holding, Conqueror recovering for re-run.
0610	# 2 off the bottom, commences heaving in.
0640	Conqueror commences to re-run # 2
0647	# 2 on the bottom, position 626 547mE 5 789 490mN
0715	# 2 PCC returned to the rig.
0731	# 3 PCC passed to the Conqueror.
0750	Conqueror runs out # 3
0752	# 3 on the bottom, position 626 313nE 5 790 364mN
0805	Sentinel is disconnected from the main tow bridle.
0815	# 3 PCC returned to the rig.
0825	# 7 PCC passed to the sentinel.
0845	Sentinel runs out # 7
0853	# 5 PCC passed to the Conqueror.

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Signature _____
SURVEYOR

Signature _____
CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED

DAILY RECORD SHEET

Date: **20 June 2002** Client: **OMV Australia** Job No.: **3382A3** Vessel: **Ocean Bounty** Location: **Patricia-2**

Equipment	Op	B/up	Equipment	Op	B/up	Thales Personnel		0600	1200	1800	2400
GPS	✓		Echo Sounder			Paul Malatzky (PM)	Swell				
SkyFix	✓		Sidescan			Steve Bradley (SB)					
SkyFix Spot	✓		Pinger				Sea				
Gyro	✓		Boomer								
GNS 2	✓		Heave Comp				Wind				
MultiFix 3	✓		Velocity Probe								
Remote	✓		CODA				Bar				
Sextant	✓					Client Personnel					
Tracs TDMA	✓					Bill Edmonds	Temp				

DIARY OF OPERATIONS

PAGE 10 OF 10

TIME	Time Zone = UTC + 10.0 Thursday 20 June, 2002 Continued...
0855	# 7 on the bottom, position 628 051mE 5 789 777mN
0912	Conqueror runs out # 5
0915	# 7 PCC returned to rig.
0924	# 5 on the bottom, position 627 629mE 5 790 917mN
0928	# 1 PCC passed to the Sentinel.
0955	Standby problems with # 4 and # 1 winches.
0957	Sentinel runs out # 1
1007	# 1 on the bottom, position 627 015mE 5 789 357mN
1020	# 1 PCC returned to the rig.
1023	# 4 PCC passed to the Conqueror.
1025	# 8 PCC passed to the Sentinel.
1039	Conqueror runs out # 4
1050	# 4 on the bottom, position
1057	Sentinel runs out # 8
1107	# 8 on the bottom, position
1115	# 4 PCC returned to the rig.
1130	Ocean Bounty positioning over the Patricia-2 location.
1135	# 8 PCC returned to the rig.
1140	Ocean Bounty positioned approximately 0.6m @ 350°T from Patricia-2 location.
1145	Ocean Bounty storm tensioning anchors to 350 kips.
1400	Fine tuning anchors to adjust rig heading around to 257°T.
1500	Rig position accepted by client representative Bill Edmonds, spud in commences.

Forms are to be completed daily in duplicate on all vessels. Each form should be countersigned by the Clients Representative, the original being retained on board until the next crew change or at the end of job, whichever is the earlier, when they should be returned to the PERTH office.

Signature _____
SURVEYOR

Signature _____
CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED

DAILY RECORD SHEET

Date: **20 June 2002** Client: **OMV Australia** Job No.: **3382A3** Vessel: **Ocean Bounty** Location: **Patricia-2**

Equipment	Op	B/up	Equipment	Op	B/up	Thales Personnel		0600	1200	1800	2400
GPS	✓		Echo Sounder			Paul Malatzky (PM)	Swell				
SkyFix	✓		Sidescan			Steve Bradley (SB)					
SkyFix Spot	✓		Pinger				Sea				
Gyro	✓		Boomer				Wind				
GNS 2	✓		Heave Comp				Bar				
MultiFix 3	✓		Velocity Probe			Client Personnel	Temp				
Remote	✓		CODA			Bill Edmonds					
Sextant	✓										
Tracs TDMA	✓										

DIARY OF OPERATIONS

PAGE 11 OF 12

TIME	Time Zone = UTC + 10.0 Thursday 20 June, 2002 Continued...
1605	Discuss removal faulty Tracs gyro P.S.U with Conqueror for replacement
1635	Tracs P.S.U. received onboard rig. Test unit and confirm spare Fluxgate Gyro is operational.
	Fluxgate onboard Conqueror requires changeout.
1930	Tracs equipment and Computer switched off onboard Sentinel
2000	Client representative Bill Edmonds requests elevation mask be lifted to 15°.
2020	Commence final fix at the Patricia-2 location. GNS II Streaming activated.
2027	STOP final fix, rig manoeuvring to stab back in.

Forms are to be completed daily in duplicate on all vessels. Each form should be countersigned by the Clients Representative, the original being retained on board until the next crew change or at the end of job, whichever is the earlier, when they should be returned to the PERTH office.

Signature _____
SURVEYOR

Signature _____
CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED DAILY RECORD SHEET

Date: **21 June 2002** Client: **OMV Australia** Job No.: **3382A3** Vessel: **Ocean Bounty** Location: **Patricia-2**

Equipment	Op	B/up	Equipment	Op	B/up	Thales Personnel		0600	1200	1800	2400
GPS	✓		Echo Sounder			Paul Malatzky (PM)	Swell				
SkyFix	✓		Sidescan			Steve Bradley (SB)					
SkyFix Spot	✓		Pinger				Sea				
Gyro	✓		Boomer								
GNS 2	✓		Heave Comp				Wind				
MultiFix 3	✓		Velocity Probe								
Remote	✓		CODA				Bar				
Sextant	✓					Client Personnel					
Tracs TDMA	✓					Bill Edmonds	Temp				

DIARY OF OPERATIONS

PAGE 12 OF 12

TIME	Time Zone = UTC + 10.0	<u>Friday 21 June, 2002</u>
0602	Commence final fix at the Patricia-2 location.	
0702	Conclude final fix at the Patricia-2 location. The datum is 1.59m @ 303.9°T from the intended Patricia-2 location. Position accepted by client representative Bill Edmonds.	
0730	Client provided with copy of final fix report for Patricia-2 location.	
0800	SB transferred to Conqueror to replace faulty fluxgate compass.	
0830	All Patricia-2 project data backed up to CD.	
0900	SB returned to Ocean Bounty	
0915	Commence demobilisation of Thales equipment.	
1030	Demobilisation complete.	
1100	Attend pre-flight safety briefing.	
1230	Depart the Ocean Bounty for Melbourne and connecting flight to Perth.	
2000	Depart Melbourne Airport for Perth.	
2330	Arrive Perth domestic Airport.	

Forms are to be completed daily in duplicate on all vessels. Each form should be countersigned by the Clients Representative, the original being retained on board until the next crew change or at the end of job, whichever is the earlier, when they should be returned to the PERTH office.

Signature _____
SURVEYOR

Signature _____
CLIENT REPRESENTATIVE



OMV Australia



Drilling Summary

The last anchor was pulled on Baleen-3 at 00:30 hours on the 20th June. The semi-submersible Ocean Bounty was then moved undertow of the Pacific Sentinel to Patricia-2 location in 4 hours.

The first anchor (#6) was dropped on bottom at 03:41 hours on June 20, 2002. Anchor #2 was lying upside down on the seabed and had to be pulled and reset. The last anchor was dropped at 11:50 hours, before the anchors were cross tensioned. In preparation to spud the well, the 30"/36" assembly was made up and racked back in the derrick. Also the 20"/30" casing was made up and landed in the moon pool. .

The 36" BHA w/ a 26" bit (DSJC, IADC 111, 1x17, 3x24) and a 36" hole opener was ran in the hole to the mud line at 77.5 m. Patricia-2 was spudded at 16:00 hrs 20 June 2002. The 36" hole was drilled from 77.5 m to 111.5 m and a survey showed a 1/4° inclination. A wiper trip was performed and the hole was displaced prehydrated gel prior to pulling out.

After pulling out of the hole, the permanent guide base was moved to the moon pool. The rig was moved forward starboard with anchor 3 and paid out anchor 8 to stab the casing. The stabbing in of the casing was observed with the ROV. The 30" casing with 20" shoe was run and the last 2 m were washed to bottom. The slope indicator was checked with ROV and found to be 0° with a heading of 259°. The 30" casing was cemented in using 766 sacks of class G, with 94 barrels of sea water and 1% CaCl weight of 1.91 sg cement (160 barrel slurry) and displaced with 11.5 barrels of seawater. Cement was returned to surface and observed by the ROV.

The 17 1/2" assembly was made up with a 9 5/8" Sperry Sun performance motor with a 1.5° bend and run in the hole, tagging cement at 102 m. The cement and casing shoe was drilled out and the 17 1/2" hole was then drilled from 111.5 m to 334 m in 5.5 hrs, using seawater and high viscosity sweeps and kicking off from 200 m. At TD 334 m, TVD was 332.5 m with an inclination of approximately 11.6° and an azimuth of 239.9°. Whilst drilling each stand, a gel pill was spotted on bottom then each stand was reamed. At TD, 100 barrels of high viscosity mud was swept and 320 barrels of pre-hydrated mud was spotted in the hole.

The 13 3/8" casing was made up and ran in the hole with 5" DP and 8" drill collars to apply enough weight to set lock down slips of 18 3/4" wellhead (80 klbs). No difficulties were experienced in latching the 18 3/4" wellhead in the 30" housing. Cemented the casing with 95 barrels of 12.5 ppg lead slurry, followed by 100 barrels of 15.9 ppg tail slurry. The bottom plug did not bump. Bled off and checked for backflow and found to be OK. The 18 3/4" wellhead running tool was released without problems.

The Xmas tree was fully function tested on surface, then run without isolation sleeve and latched into the 18 3/4" wellhead. This was confirmed with 50k overpull. The AX gasket was pressure tested to 3,000 psi for 10 minutes against the running tool and casing. The 10 3/4" pipe rams had been placed in the centre position of the drill pipe preventer and the BOP was fully function tested on surface. The BOP was nipped up to the riser, landed and latched into the Xmas tree, confirmed by 50k overpull. The shear rams were closed and the lower connector was tested successfully, to 500/3,000 psi against the casing.

The 12 1/4" BHA (PDM, RLL, MPT, Float, XO, 3 x 5" HWDPs, Jar, 3 x 5" HWDPs) with resistivity and gamma capability was made up and run in with a 1.15 bend in the motor. The cement was tagged at 300 m, some 4.05 m above the float collar. The top plug was found approximately 0.5 m above the float collar. Drilled out the cement plugs and firm cement throughout the shoe track. The shoe was drilled out and again firm cement to 334 m. The well was displaced to KCI/PHPA mud at a density of 1.06 sg before drilling 3 m of new formation to 337 m. Performed a formation integrity test with 1.06 sg mud to a pressure of 321 psi yielding an equivalent mud weight of 1.73 sg. Drilled to TD at 884 m with a maximum inclination at TD of 90°. Bit balling and a decrease in ROP was observed. The casing was run to bottom with no hole problems, and was landed and circulated for one and a half times the casing volume prior to the cement job. The casing was

cemented and the plug bumped at the calculated displacement before the 9 5/8" casing was pressure tested to 3,000 psi for 10 min.

The 8½" drilling assembly was made up and run in hole to 848 m; the shoe track and 3 m of new hole to 887 m were drilled. Then the well was displaced with Flo-Pro mud of 1.07 sg and a formation integrity test yielded an equivalent mud weight of 1.4 sg. The 8 ½" hole was drilled from 887 m to 1385 m (701.2 mTVD). The assembly was pulled back to the shoe and the hole was circulated to 1.08 sg KCl brine.

The sand screens and the 6 5/8" production liner were run including the inner wash string and packer. The tie back sealing assembly and packer were landed at the second attempt successfully and pressure tested to 1500 psi. After rigging up the coiled tubing unit and bringing the well to production, the well was tested with several shut-in and flow periods.

After retrieving the BOP and pulling the anchors, the Ocean Bounty was under tow to Sole-2 at 00:45 on the 9th July 2002.

Drilling Fluids Recap

OMV

Patricia 2

Vic L21

Bass Strait

Development





Drilling Fluids

M-I L.L.C.

ONE-TRAX

DRILLING FLUIDS DATA MANAGEMENT SYSTEM

Operator : OMV Australia
Well Name : Patricia 2
Field/Area : VIC / L21
Description : Development
Location : Bass Strait
Warehouse : Geelong
Contractor : Diamond Offshore

Spud Date : 20/06/2002
TD Date : 1/01/-4713
Loc Code : 7001
Dist Engr : Dave Bennett
Sales Engr : Graeme Garrick
Sales Engr : Dave Dixon
M-I Well No. :

Comments : Horizontal Field Development

Type	Size in	Depth m	TVD m	Hole in	MaxMW sp.gr.	Mud 1	Mud 2	Drilling Problem	Days	Cost \$
Casing	30	111	111	36	1.04	Spud Mud		None	1	2730.28
Casing	13.375	326	318	17.5	1.04	Spud Mud		None	1	8372.09
Casing	9.625	873	700	12.25	1.12	POLY-PLUS			4	41400.09
Open Hole				8.5						

Total Depth : m

TVD : m

Water Depth : 52.5 m

Drilling Days :

Total Mud Cost : \$



DRILLING FLUIDS RECAP
PATRICIA 2



CONTENTS:

- 1. DISCUSSION BY INTERVAL**
- 2. DAILY DISCUSSION REPORT**
- 3. COST BY INTERVAL**
- 4. DAILY VOLUME SUMMARY SHEET**
- 5. TOTAL MATERIAL COST**
- 6. HYDRAULICS REPORT**
- 7. DRILLING FLUIDS SUMMARY**
- 8. PRODUCT CONSUMPTION**
- 9. DAILY MUD REPORTS**



DRILLING FLUIDS RECAP
PATRICIA 2



**DISCUSSION
BY
INTERVAL**



DRILLING FLUIDS RECAP
PATRICIA 2



INTRODUCTION

OMV Petroleum was the operator for the horizontal development well Patricia # 2, drilled with the Diamond Offshore semi-submersible, Ocean Bounty spudded on the 20th June 2002.

The well was located in the Bass Strait in the permit VIC/L21 approximately 30 kilometres south of the Victorian town of Orbost. The location was latitude 38°01'39.97"S and longitude 148°26'57.83"E with a water depth of 51 meters and height of the rotary table above sea level being 26 meters. The well was vertically drilled for the first 2 intervals and deviated to 90 degrees in the 12¼" section.

Total depth was reached at 1385m (TVD of 701m) on the 28th June 2002. The well was completed and a testing program carried out prior to suspending the well for later attachment to a pipeline.



DRILLING FLUIDS RECAP
PATRICIA 2



Interval I	77.5 - 111.5 meters	36" Hole	30" Casing set at 111.5m
Interval II	111.5 – 334 meters	17½" Hole	13³/₈" Casing set at 326 m

MUD TYPE : SEAWATER/HI VIS SWEEPS

HOLE PROBLEMS : None

MUD PROPERTIES :

Mud Weight : 1.04 SG
Viscosity : 100+sec/qt

OPERATIONS:

Patricia #2 was spudded on the 20th June 2002 with seawater/Gel hi-vis sweeps.

A 26" bit and 36" hole opener was used to drill the section. The Seabed was tagged at 77.5 meters and hole drilled to 111.5 meters.

Approximately 480 barrels of mud was recovered from the previous well, this had a specific gravity of 1.2; a yield point of 30; and 6rpm reading of 15. and was used to "drill in" the hole opener. While drilling, seawater was used, 50 bbl of High Viscosity Pre-Hydrated Gel Mud was pumped before each connection. The "old" mud also provided volume for pumping intermittent sweeps while drilling. This aided in maintaining a clean hole and provided adequate cuttings removal.

The hole was good and drag was not observed on connections or while tripping.

At TD of 36" interval, 111.5 m, the hole was displaced to 150 bbl of High Viscosity Pre-Hydrated Gel Mud. A wiper trip was made to the sea bed and when back on bottom 200 bbl of High Viscosity Pre-Hydrated Gel Mud was left in the hole prior to pulling out and running 30 " casing.

The 17½" interval was drilled using the same mud system. Additional High Viscosity Pre-Hydrated Gel Mud was mixed and sweeps were pumped following the procedure for the 36" hole. At 334m, TD of the 17½" interval a 100 barrel sweep of High Viscosity Pre-Hydrated Gel Mud was pumped before making a wiper trip. When back on bottom the hole was circulated clean with seawater and then displaced with 320 bbl of High Viscosity Pre-Hydrated Gel Mud. The drill string was then pulled and the 13³/₈" casing was run and cemented as per the program.

Both the 30" and 13³/₈" casing were run and cemented without problems.



DRILLING FLUIDS RECAP
PATRICIA 2



MUD

An initial 885 bbls of 40 lb/bbl pre-hydrated Gel (PHG) was prepared and allowed to hydrate. After mixing all agitators and mixing pumps were turned off to enhance hydration. The old mud from the previous well was held in pit # 4 and was used to “drill in” the hole opener and to provide Volume for intermittent sweeps.

In addition to the mud program, 29 sacks of Calcium Chloride were used for mixing a cement water.

SOLIDS CONTROL:

In the 36” and 17½ ” hole sections, there was no need for solids control as the mud returns were to the sea bed.

OBSERVATIONS AND RECOMMENDATIONS:

Drilling with Seawater and pumping High Viscosity Pre-Hydrated Gel Sweeps has always proved to be a very effective and economical option for drilling the top hole in similar geological formations.



DRILLING FLUIDS RECAP
PATRICIA 2



Interval III	335 - 884m TVD = 702 m	12 ¹ / ₄ " Hole section	9 ⁵ / ₈ " Casing set at 873m
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MUD TYP	:	KCI/PHPA/Glycol
HOLE PROBLEMS	:	None
MAXIMUM DEGREE	:	90° at 884 m
MUD PROPERTIES	:	
		Mud Weight : 1.06- 1.12 sg
		Viscosity : 48 – 55 sec/qt
		Plastic Viscosity : 10 – 15cP
		Yield Point : 18-37 lb/100sqft
		6 rpm : 9-15
		Filtrate : 5.4 – 6.8 ml
		KCL : 5.0 – 5.5 % by wt
		PHPA : 0.6 – 1.0 ppb
		Glycol : 3.0 % by Vol.
		Rheology at 49°C

OPERATIONS:

The BOP's were installed and tested and the 12¹/₄" Drilling assembly was run to tag cement at 301 meters. The float, cement and shoe were drilled out and the shoe track cleaned out by pumping seawater and a Hi Vis sweep. The well was displaced to 1.06 SG KCI/PHPA/Glycol mud at 340 m. After circulating balanced mud a formation integrity test was performed to 1.73 SG EMW.

The 12¹/₄" hole was then directionally drilled to an interval depth of 884 meters and 702 meters TVD. Directional surveys were taken as required. At Interval depth the hole was circulated clean and a wiper trip was made back to the 13³/₈" casing shoe. When back on bottom after the wiper trip, the hole was circulated clean and a slug was pumped before pulling out to run the 9⁵/₈" casing

The hole remained in good condition while drilling, during connections, tripping and running casing.

The 9⁵/₈" casing was run and cemented at 873 meters without any problems

MUD:

An initial 450 bbls of mud was premixed double strength, 120 bbls of 18% KCL Brine was received, and diluted to 12% and blended with the premixed polymer mud. An additional 300 bbls of KCI / PHPA / Glycol mud was prepared at 1.06 SG. This was blended into the active system during the displacement. An additional volume of 300 bbls of KCI / PHPA /



DRILLING FLUIDS RECAP
PATRICIA 2



Glycol mud was mixed and transferred to the active system during drilling, thereby imparting fresh chemical additions while drilling new formation.

The shale shakers were initially dressed with 84 mesh screens. These however had to be changed to 52 mesh to handle the flow rate until the mud system gained some heat and became fully sheared. The shakers were then sized down to 84 mesh and later to 120 mesh as drilling progressed.

As stated additional unweighted premix was blended slowly to the active to provide firm cuttings over the shakers. As it was and used as dilution, no solids control equipment was used.

Adjustments to the Low end rheology were made with the addition of Duotec added directly to the active system. Additional Glydril was also added directly into the active to maintain the programmed concentration.

SOLIDS CONTROL:

The shakers were dressed initially with 10/84 mesh and had to be sized up to 10/52 to stop significant losses. These were then changed back to 10/84 and later then to 10/120 mesh on two of the shakers. The Desilter was not required as the unweighted premix was added.

OBSERVATIONS AND RECOMMENDATIONS:

- A PHPA level of 1.0 ppb is probably enough to drill these short shallow formations.
- The hole cleaning regime based on 6 rpm at 8 to 12 was adequate provided the sample was measured at 49°C
- Proposed inhibition at 5-6% by wt of KCL and 3% by vol of Glycol appeared to be sufficient as the MBT was max. 5 ppb of Bentonite equivalent.



DRILLING FLUIDS RECAP
PATRICIA 2



Interval III	884 – 1385 m TVD = 702 m	8½” Hole section	6 ⁵ / ₈ ” sand screens set in horizontal.
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MUD TYPE : Flo-Pro
HOLE PROBLEMS : None
MAXIMUM DEGREE : Horizontal section
MUD PROPERTIES :

Mud Weight : 1.09 - 1.12 sg
Viscosity : 60 – 69 sec/qt
Plastic Viscosity : 11 cP
Yield Point : 32 - 34 lb/100sqft
6 rpm : 16 – 17
LSRV1 : 59187 - 64000
LSRV2 : 64086 - 69985
LSRV3 : 62687 - 69485
Filtrate : 4.6 – 5.0 ml
KCL : 3 % by wt
Drill Solids : 0.1 – 6.0
Chlorides ; 72000 mg/lt
Rheology at 120 F and from Flow Line

OPERATIONS:

The seal assembly and BOPs were pressure tested prior to making up the 8½” drilling assembly. The top of the cement was tagged at 848 m and the old mud was used to drill the cement and shoe. While drilling the shoe the well was displaced to the Flo-Pro system and 3 meters of new formation was drilled. A formation integrity test resulted in an equivalent mud weight of 1.4 SG.

Directional drilling proceeded at 30 to 60 m/hr depending on whether the drill string was sliding or rotating. Drilling continued to the total measured depth of 1385 meters where the horizontal section was displaced to solids free Flo-Pro mud and at the shoe the casing was circulated with a surfactant cleaning pill. The casing was filled with uninhibited brine.

The sand screens and wash pipe were run in the hole and the mud system was displaced to an enzyme system to clean up the polymers remaining in the production zone. The well was completed with filtered inhibitive brine in the well casing.

The packer was unseated to enable a pup joint to be inserted and it appeared that the formation had been broken down as losses to the formation occurred. The losses were approximately 40 bbls /hr and continued until the tubing was resealed in the packer.

The well was production tested as per program. The well was suspended awaiting the link up with the pipe line to be laid at a later date.



DRILLING FLUIDS RECAP
PATRICIA 2



MUD:

The Flo Pro system was made up with sized calcium carbonate to aid in fluid loss control to the production zone. The system worked well without any losses to the sands.

The mud weight was controlled by the addition of salt in addition to the 3% KCl in the system. The section was drilled quickly without any build up of fine solids or increase in clay content.

The main focus for mud treatment was put on keeping LSRV above 60000 cP and a filtration below 5 ml. It was achieved by constant addition of premixed Flovis Plus and Duoalflo polymers.

At TD the following clean up spacers were mixed and pumped:

- ❑ 25 bbl KCl brine
- ❑ 230 bbl Flo-Pro Solids Free – displaced with mud (to cover open hole and sand screen volume)
- ❑ 25 bbl Hi Vis KCl spacer
- ❑ 50 bbl Surfactant pill
- ❑ 25 bbl brine base spacer

Above spacers were displaced with uninhibited KCl brine formulated to 1.08 SG

After running the completion screens, the open hole was displaced to Wellzyme. A pill and the Flo-Pro SF returns were dumped.

After running tubing and before stabbing into PBR, the casing was displaced to 1.08 SG inhibited KCl brine.

SOLIDS CONTROL EQUIPMENT

Only Four VSM 100 Shale Shakers were used for solids control. They were dressed with 120 mesh screens and handled the flow rate of 600 gpm.

OBSERVATIONS AND RECOMMENDATIONS

The drilling fluid system performed excellently with all the completion and testing requirements achieved in the minimum time.



DRILLING FLUIDS RECAP
PATRICIA 2



DAILY DISCUSSION REPORT



Operator : OMV Australia
Well Name : Patricia 2
Contractor : Diamond Offshore

Field/Area : VIC / L21
Description : Development
Location : Bass Strait

Daily Discussion
M-I Well :

Date	TD =	Day	Discussion
20/06/2002	111.5 m	Day 1	Run Anchors and position rig. Run casing an latch to guide base. Secure in moonpool. Seabed tagged at 77.5 m. Spud Well, Drill to interval T.D. Circulate hole clean and displace to Hi Viscosity mud. Run in & Cement Casing at 111 m. Drill water received from Pacific Sentinel: pH 7.5 Cl- 200 mg/l. Ca 180 mg/l. Rec'd 480 bbls old mud from Sentinel. Mixed 885 bbls PHG The interval was drilled with seawater and high viscosity sweeps. The sweeps used old mud and PHG on connection Spud Well, Run in & Cement Casing.
21/06/2002	334 m	Day 2	The cement was allowed to cure and the 17.1/2" drilling assembly was run in to drill out the cement and shoe. Drilling proceeded at an ROP >60 m/hr with alternate periods of sliding to commence the directional kick off. The mud pits were cleaned thoroughly. The section was drilled with seawater and PHG sweeps after 250 bbls of old mud was used. The interval depth of 344 m was reached and the hole swept with 100 bbls of PHG followed by the spotting of 320 bbls on bottom. The trip out was tight so a wiper trip was made. Displace hole to PHG. Trip out rig and run 13 3/8" casing. The casing was cemented using CaCl2 mix water. Drill 17.1/2" interval.
22/06/2002	334 m	Day 3	Cement 13 3/8" casing. Lay out handling tools. Rig and run subsea tree. Rig and run BOPs. Building new mud in Active pits (1/2 volume 2xConcentration) waiting for K.C.L. on next supply boat. Plan to mix K.C.L. and dilute 50/50 Run B.O.P.s and riser
23/06/2002	401 m	Day 4	The riser and BOPs were run and tested. Made up liner hanger tool and commenced making up BHA. Repairing BOP control panel. Drill out shoe Displace hole to mud, run leak off test to 1.73 SG. Drill ahead with directional control to raise angle. Received 120 bbls old Brine from boat, Blended this with premixed mud volume and additional water for dilution. Building reserve Premix mud for additional volume. Displace hole to PHPA/KCL mud. Drill out casing shoe, Run leak off test. Drill ahead.
24/06/2002	710 m	Day 5	Changed to finer shaker screens. Drill 12 1/4" hole with Directional Surveys. Add premixes to active system to maintain system. Treat system with Glydril, Polyplus and Duotec. Drill 12.1/4" interval.
25/06/2002	884 m	Day 6	Directional drilling proceeded to 884 m where the Gurnard formation was encountered at an angle of 90 deg. The hole was circulated and the mud weight raised to 1.12 SG. The max gas was approx 12%. A wiper trip was made to the casing shoe. R.I.H. Circulate hole clean pump slug POOH Rig up to run 9 5/8" Casing The mud properties were maintained by the addition of premix and KCL. Minor losses to the formation occurred. Drilled to interval depth of 884 m.



Operator : OMV Australia
Well Name : Patricia 2
Contractor : Diamond Offshore

Field/Area : VIC / L21
Description : Development
Location : Bass Strait

Daily Discussion
M-I Well :

26/06/2002	TD = 884 m	Day 7
<p>A string of 9.5/8" casing was run and cemented at 872 m. Test seal assembly and BOPs. Make up Drilling assembly and R.I.H. Commence making up FloPro mud system</p> <p>Set and cemented 9.5/8" casing. Prepare for 8.1/2" hole.</p>		
27/06/2002	TD = 1379 m	Day 8
<p>RIH to tag cement at 848 m. Drill out cement and shoe with the mud from previous section. Displace to new mud while drilling shoe. Drill 3m and take FIT for 1.4 SG EMW. Drill ahead at 60 to 30 m/hr. Mixed Flo-Pro SF clean up pill. Mixed KCL Brine for pills</p> <p>Commence drilling 8.1/2" interval with Flo pro system.</p>		
28/06/2002	TD = 1385 m	Day 9
<p>The total depth of 1385 m was reached and the well was circulated with clean up pills after a wiper trip. The horizontal section was filled with solids free mud and at the shoe the casing was cleaned out and displaced to 1.08 SG uninhibited brine. POOH and run sand screens. The solids free FloPro was used to fill the horizontal section. High viscosity pills and a surfactant pill were pumped to clean the casing and the casing was filled with 1.08 SG brine. The mud from the hole and pits was dumped and the pits were cleaned.</p> <p>Total depth of 1385 m was reached and the hole was cleaned up. Run sand screens.</p>		
29/06/2002	TD = 1385 m	Day 10
<p>The completion program was continued with the running of the sand screens and wash pipe. The screens were set and the well clean up prior to tripping the running string. 400 bbls of brine was filtered to approx 35 NTUs for future use as inhibited brine. The brine for the cleanup procedures was mixed, The cleanup procedure included a high viscosity brine followed by brine to displace the FloPro and then a Wellzyme brine was used to fill the 8,1/2" interval over the sand screens.</p> <p>Completion program</p>		
30/06/2002	TD = 1385 m	Day 11
<p>Continued with the well completion program. Filled riser,choke and kill lines with filtered brine. Mixed 100 bbls of brine which was filtered prior to adding the inhibition chemicals. The NTUs of the inhibited filtered brine was 22. The old brine was filtered from 450 to 270 NTUs and will be used on next well as KCl base.</p> <p>Continue with well completion.</p>		
1/07/2002	TD = 1385 m	Day 12
<p>Displaced well to filtered inhibited brine. Continue well completion. Pulled out tubing to insert pup joint. Starte losing brine to formation at up to 40 bbls/hr. Mixed extra 100 bbls of KCl brine.</p> <p>continue well completion.</p>		



**Drilling
Fluids**

Operator : OMV Australia
Well Name : Patricia 2
Contractor : Diamond Offshore

Field/Area : VIC / L21
Description : Development
Location : Bass Strait

**Daily
Discussion**
M-I Well :

2/07/2002	TD = 1385 m	Day 13
<p>Continued to run well completion with the addition of extra pup joint. Losses continued until the tubing was restabbed in. Mixed up 1.08 SG KCl brine as required to cover the downhole losses of approx 40 bbls/hr. The total losses to the formation over the time was approx 450 bbls.</p> <p>Continued well completion.</p>		

3/07/2002	TD = 1385 m	Day 14
<p>The well was production tested from daylight.</p> <p>Tested appropriate water flow samples to check the amount of brine being produced.</p> <p>Continue well completion with the flowing of the well.</p>		

4/07/2002	TD = 1385 m	Day 15
<p>The well testing program continued.</p> <p>Continue testing Patricia # 2</p>		

5/07/2002	TD = 1385 m	Day 16
<p>The well testing program was completed and the well suspension was commenced.</p> <p>Completed well testing and commenced well suspension.</p>		

6/07/2002	TD = 1385 m	Day 17
<p>Continue with well suspension but unable to continue due to inclement weather.</p> <p>Continue well suspension until shut down by weather.</p>		

7/07/2002	TD = 1385 m	Day 18
<p>After the weather abated the BOPs were recovered and the well suspension continued.</p> <p>All brine in pits dumped.</p> <p>Continued with well suspension.</p>		

8/07/2002	TD = 1385 m	Day 19
<p>Complete final ROV work with sub sea tree. Pull anchors in preparation for move to next location.</p> <p>Prepare to move rig.</p>		



DRILLING FLUIDS RECAP
PATRICIA 2



COST BY INTERVAL



PRODUCT SUMMARY

Operator : OMV Australia
Well Name : Patricia 2
Contractor : Diamond Offshore

Field/Area : VIC / L21
Description : Development
Location : Bass Strait

SUMMARY OF PRODUCT USAGE FOR INTERVAL **20/06/2002 - 20/06/2002, 111.5 - 111.5**

WATER-BASED MUD	SIZE	AMOUNT	UNIT COST	PROD COST
			(\$)	(\$)
1 - Gel Bulk	100 LB BG	320	8.12	2598.40
2 - Caustic Soda	25 KG DM	6	17.32	103.92
3 - Soda Ash	25 KG BG	3	9.32	27.96
SUB TOTAL:				2730.28
TAX:				0.00
WATER-BASED MUD TOTAL COST:				2730.28
TOTAL MUD COST FOR INTERVAL:				2730.28



Drilling
Fluids

ONE-TRAX

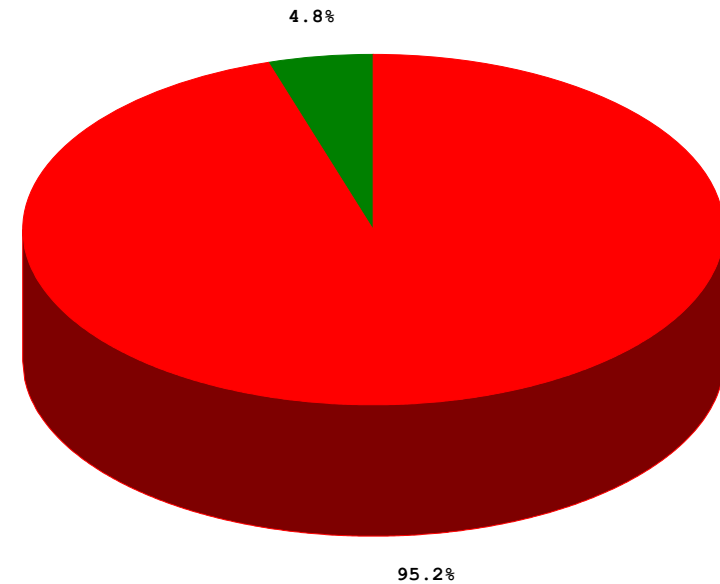
Operator : **OMV Australia**
Well Name : **Patricia 2**
Field/Area : **VIC / L21**
Description : **Development**
Location : **Bass Strait**

Cost Analysis

BREAKDOWN OF COST BY PRODUCT GROUP 20/06/2002 - 20/06/2002, 77 - 111 m

Water-Based Mud Products	\$	%
1-Common Chemicals	131.88	4.8
2-Visc/Fluid Loss	2598.40	95.2
Water-Based Mud Total Cost:	\$ 2730.28	100.0

Water-Based Mud





PRODUCT SUMMARY

Operator : OMV Australia
Well Name : Patricia 2
Contractor : Diamond Offshore

Field/Area : VIC / L21
Description : Development
Location : Bass Strait

SUMMARY OF PRODUCT USAGE FOR INTERVAL

21/06/2002 - 21/06/2002, 334 - 334 m

WATER-BASED MUD	SIZE	AMOUNT	UNIT COST	PROD COST
			(\$)	(\$)
1 - Gel Bulk	100 LB BG	634	8.12	5148.08
2 - Calcium Chloride	25 KG BG	29	9.17	265.93
3 - Caustic Soda	25 KG DM	11	17.32	190.52
4 - Soda Ash	25 KG BG	4	9.32	37.28
SUB TOTAL:				5641.81
TAX:				0.00
WATER-BASED MUD TOTAL COST:				5641.81
TOTAL MUD COST FOR INTERVAL:				5641.81



Drilling
Fluids

ONE-TRAX

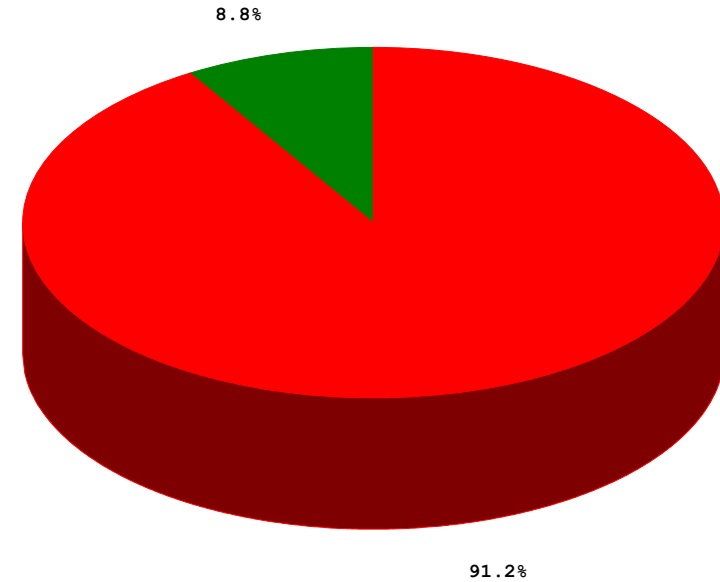
Operator : **OMV Australia**
Well Name : **Patricia 2**
Field/Area : **VIC / L21**
Description : **Development**
Location : **Bass Strait**

Cost Analysis

BREAKDOWN OF COST BY PRODUCT GROUP 21/06/2002 - 21/06/2002, 111 - 334 m

Water-Based Mud Products	\$	%
1-Common Chemicals	493.73	8.8
2-Visc/Fluid Loss	5148.08	91.2
Water-Based Mud Total Cost:	5641.81	100.0

Water-Based Mud





PRODUCT SUMMARY

Operator : OMV Australia
Well Name : Patricia 2
Contractor : Diamond Offshore

Field/Area : VIC / L21
Description : Development
Location : Bass Strait

SUMMARY OF PRODUCT USAGE FOR INTERVAL

22/06/2002 - 25/06/2002, 334 - 884 m

WATER-BASED MUD	SIZE	AMOUNT	UNIT COST	PROD COST
			(\$)	(\$)
1 - Barite Bulk	100 LB BG	50	6.30	315.00
2 - Duotec	25 KG BG	54	192.61	10400.94
3 - Glydril LC	208 KG DM	40	621.94	24877.60
4 - OS-1	25 KG BG	6	31.94	191.64
5 - Polyplus Dry	25 KG BG	24	70.41	1689.84
6 - Polypac UL	25 KG BG	24	92.93	2230.32
7 - KCL-Geel	1 TN BG	6	274.45	1646.70
8 - Sodium Bicarbonate	25 KG BG	5	9.61	48.05
SUB TOTAL:				41400.09
TAX:				0.00
WATER-BASED MUD TOTAL COST:				41400.09
TOTAL MUD COST FOR INTERVAL:				41400.09



ONE-TRAX

Operator : **OMV Australia**
Well Name : **Patricia 2**
Field/Area : **VIC / L21**
Description : **Development**
Location : **Bass Strait**

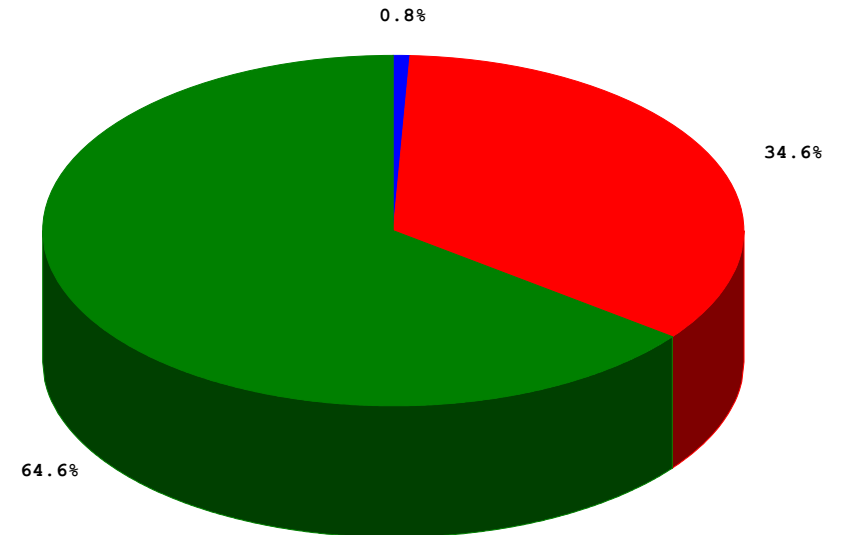
Cost Analysis

BREAKDOWN OF COST BY PRODUCT GROUP 22/06/2002 - 25/06/2002, 334 - 884 m

Water-Based Mud Products	\$	%
1-Common Chemicals	26763.99	64.6
2-Visc/Fluid Loss	14321.10	34.6
3-Weight Material	315.00	0.8

Water-Based Mud Total Cost: \$ 41400.09 100.0

Water-Based Mud





PRODUCT SUMMARY

Operator : OMV Australia
Well Name : Patricia 2
Contractor : Diamond Offshore

Field/Area : VIC / L21
Description : Development
Location : Bass Strait

SUMMARY OF PRODUCT USAGE FOR INTERVAL

26/06/2002 - 27/06/2002, 884 - 1379 m

WATER-BASED MUD	SIZE	AMOUNT	UNIT COST	PROD COST
			(\$)	(\$)
1 - Dual-Flo	50 LB BG	66	94.75	6253.50
2 - Flo-Vis Plus	25 KG BG	56	421.14	23583.84
3 - Glute-25	25 LT DM	5	67.75	338.75
4 - OS-1	25 KG BG	10	31.94	319.40
5 - KCL-Geel	1 TN BG	14	274.45	3842.30
6 - Potassium Hydroxide	25 KG DM	9	28.96	260.64
7 - Omyacarb 1	25 KG BG	28	6.04	169.12
8 - Omyacarb 8	25 KG BG	217	6.04	1310.68
9 - Omyacarb 10	25 KG BG	21	6.04	126.84
10 - SALT (BIG BAG)	1.2 MT BG	11	228.00	2508.00
SUB TOTAL:				38713.07
TAX:				0.00
WATER-BASED MUD TOTAL COST:				38713.07
TOTAL MUD COST FOR INTERVAL:				38713.07



ONE-TRAX

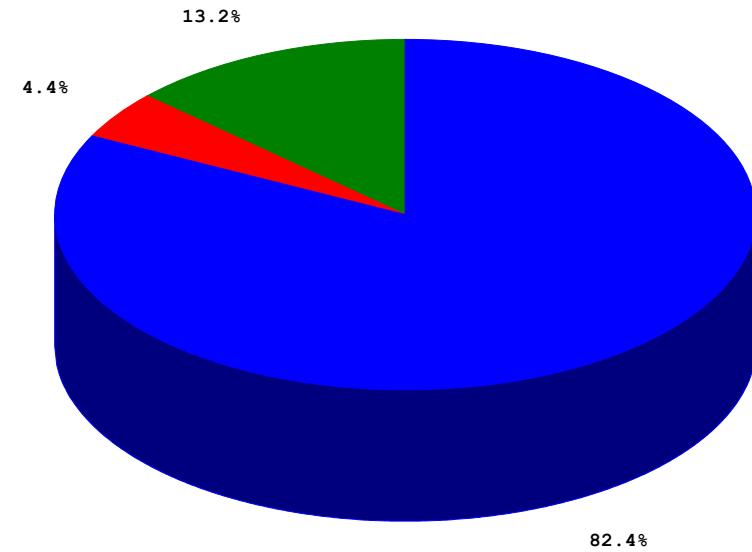
Operator : **OMV Australia**
Well Name : **Patricia 2**
Field/Area : **VIC / L21**
Description : **Development**
Location : **Bass Strait**

Cost Analysis

BREAKDOWN OF COST BY PRODUCT GROUP 26/06/2002 - 27/06/2002, 884 - 1385m

Water-Based Mud Products	\$	%
1-Common Chemicals	4761.09	13.2
2-Lost Circ Material	1606.64	4.4
3-Visc/Fluid Loss	29837.34	82.4
Water-Based Mud Total Cost:	\$ 36205.07	100.0

Water-Based Mud





PRODUCT SUMMARY

Operator : OMV Australia
Well Name : Patricia 2
Contractor : Diamond Offshore

Field/Area : VIC / L21
Description : Development
Location : Bass Strait

SUMMARY OF PRODUCT USAGE FOR INTERVAL **28/06/2002 - 8/07/2002, 1385 - 1385 m**

WATER-BASED MUD	SIZE	AMOUNT	UNIT COST (\$)	PROD COST (\$)
1 - Caustic Soda	25 KG DM	2	17.32	34.64
2 - Duotec	25 KG BG	8	192.61	1540.88
3 - Defoam A	25 LT DM	5	56.17	280.85
4 - OS-1	25 KG BG	2	31.94	63.88
5 - KCL-Geel	1 TN BG	6	274.45	1646.70
6 - Safe Surf WN	200 KG DM	4	933.30	3733.20
7 - Conqor 303A	55 GA DM	3	192.72	578.16
8 - Wellzyme A	55 GA DM	4	1749.00	6996.00
9 - SALT (BIG BAG)	1.2 MT BG	19	228.00	4332.00
10 - BRINE	1 BL BL	400	0.00	0.00
SUB TOTAL:				19206.31
TAX:				0.00
WATER-BASED MUD TOTAL COST:				19206.31
TOTAL MUD COST FOR INTERVAL:				19206.31



Drilling
Fluids

ONE-TRAX

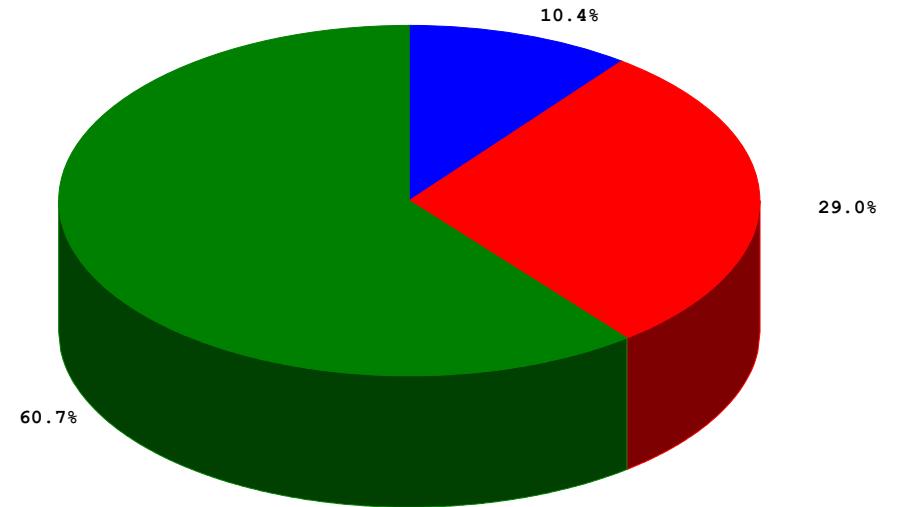
Operator : **OMV Australia**
Well Name : **Patricia 2**
Field/Area : **VIC / L21**
Description : **Development**
Location : **Bass Strait**

Cost Analysis

BREAKDOWN OF COST BY PRODUCT GROUP 28/06/2002 - 8/07/2002, 1385 - 1385 m

Water-Based Mud Products	\$	%
1-Common Chemicals	9022.07	60.7
2-Lubricant	4311.36	29.0
3-Visc/Fluid Loss	1540.88	10.4
Water-Based Mud Total Cost:	\$ 14874.31	100.0

Water-Based Mud





DRILLING FLUIDS RECAP
PATRICIA 2



DAILY VOLUME SUMMARY SHEET

OMV Australia Pty Ltd

Patricia 2 Volume Accounting

36" & 17.1/2" Hole - Seawater with High Vis Sweeps

Date 2002	Mud Volume Status (bbl)					Mud Volume Built (bbl)					Mud Volume Lost (bbl)						
	Depth	Hole	Surf Active	Res	Total Vol	Water	Mud Built	Barite	Daily Total	Cum Built	Solids Equip	Surf	Sweep/ Spots	Dump	Casing Plugs	Daily Total	Cummul Lost
20-Jun	111.5			661	661	850	515		1365	1365			704			704	704
21-Jun	334				0		1342		1342	2707			1870	133		2003	2707

12.1/4" Hole - KCL / PHPA / Glycol

Date 2002	Mud Volume Status (bbl)					Mud Volume Built (bbl)					Mud Volume Lost (bbl)						
	Depth	Hole	Surf Active	Res	Total Vol	Water	Mud Built	Barite	Daily Total	Cum Built	Solids Equip	Surf	Dump or Sweeps	Hole	Casing Plugs	Daily Total	Cummul Lost
22-Jun	334			450	450		450		450	450						0	0
23-Jun	401	242	514	710	1466	182	846		1028	1478	12					12	12
24-Jun	710	400	658	394	1452				0	1478	14					14	26
25-Jun	884	513	541	190	1244				0	1478	104		104			208	234
26-Jun	884				0				0	1478			1244			1244	1478

8.1/2" Hole - Flo-Pro Drill-in Fluid
Volumes from 27 June include Brine & clean up pills.

Date 2002	Mud Volume Status (bbl)					Mud Volume Built (bbl)					Mud Volume Lost (bbl)						
	Depth	Hole	Surf Active	Res	Total Vol	Water	Mud Built	Barite	Daily Total	Cum Built	Solids Equip	Surf	Dump	Hole	Casing Plugs	Daily Total	Cummul Lost
26-Jun	884			1067	1067		1067		1067	1067						0	0
27-Jun	1379	367	443	602	1412	530			530	1597			185			185	185
28-Jun	1385	405		312	717		545		545	2142			474	766		1240	1425
29-Jun	1385	405	402	300	1107	720	429		1149	3291			212	547		759	2184
30-Jun	1385	405	402	300	1107	100			100	3391			100			100	2284
1-Jul	1385	405	218	200	823		110		110	3501				394		394	2678
2-Jul	1385	405		186	591		220		220	3721			40	412		452	3130
3-Jul	1385	405		186	591				0	3721						0	3130
4-Jul	1385	405		186	591				0	3721						0	3130
5-Jul	1385	405		186	591				0	3721						0	3130
6-Jul	1385	405		126	531				0	3721			60			60	3190
7-Jul	1385				0				0	3721			126	405		531	3721
8-Jul	1555				0				0	3721						0	3721



DRILLING FLUIDS RECAP
PATRICIA 2



TOTAL MATERIAL COST



PRODUCT SUMMARY

Operator : OMV Australia
Well Name : Patricia 2
Contractor : Diamond Offshore

Field/Area : VIC / L21
Description : Development
Location : Bass Strait

SUMMARY OF PRODUCT USAGE FOR INTERVAL **20/06/2002 - 8/07/2002, 111.5 - 1385 m**

WATER-BASED MUD	SIZE	AMOUNT	UNIT COST (\$)	PROD COST (\$)
1 - Barite Bulk	100 LB BG	50	6.30	315.00
2 - Gel Bulk	100 LB BG	954	8.12	7746.48
3 - Calcium Chloride	25 KG BG	29	9.17	265.93
4 - Caustic Soda	25 KG DM	19	17.32	329.08
5 - Dual-Flo	50 LB BG	66	94.75	6253.50
6 - Duotec	25 KG BG	62	192.61	11941.82
7 - Defoam A	25 LT DM	5	56.17	280.85
8 - Flo-Vis Plus	25 KG BG	56	421.14	23583.84
9 - Glute-25	25 LT DM	5	67.75	338.75
10 - Glydril LC	208 KG DM	40	621.94	24877.60
11 - OS-1	25 KG BG	18	31.94	574.92
12 - Polyplus Dry	25 KG BG	24	70.41	1689.84
13 - Polypac UL	25 KG BG	24	92.93	2230.32
14 - KCL-Geel	1 TN BG	26	274.45	7135.70
15 - Potassium Hydroxide	25 KG DM	9	28.96	260.64
16 - Safe Surf WN	200 KG DM	4	933.30	3733.20
17 - Soda Ash	25 KG BG	7	9.32	65.24
18 - Sodium Bicarbonate	25 KG BG	5	9.61	48.05
19 - Omyacarb 1	25 KG BG	28	6.04	169.12
20 - Omyacarb 8	25 KG BG	217	6.04	1310.68
21 - Conqor 303A	55 GA DM	3	192.72	578.16
22 - Wellzyme A	55 GA DM	4	1749.00	6996.00
23 - Omyacarb 10	25 KG BG	21	6.04	126.84
24 - SALT (BIG BAG)	1.2 MT BG	30	228.00	6840.00
25 - BRINE	1 BL BL	400	0.00	0.00
SUB TOTAL:				107691.56



**Drilling
Fluids**

PRODUCT SUMMARY

Operator : OMV Australia
Well Name : Patricia 2
Contractor : Diamond Offshore

Field/Area : VIC / L21
Description : Development
Location : Bass Strait

SUMMARY OF PRODUCT USAGE FOR INTERVAL	20/06/2002 - 8/07/2002,	111.5 - 1385 m
TAX:		0.00
WATER-BASED MUD TOTAL COST:		107691.56
TOTAL MUD COST FOR INTERVAL:		107691.56



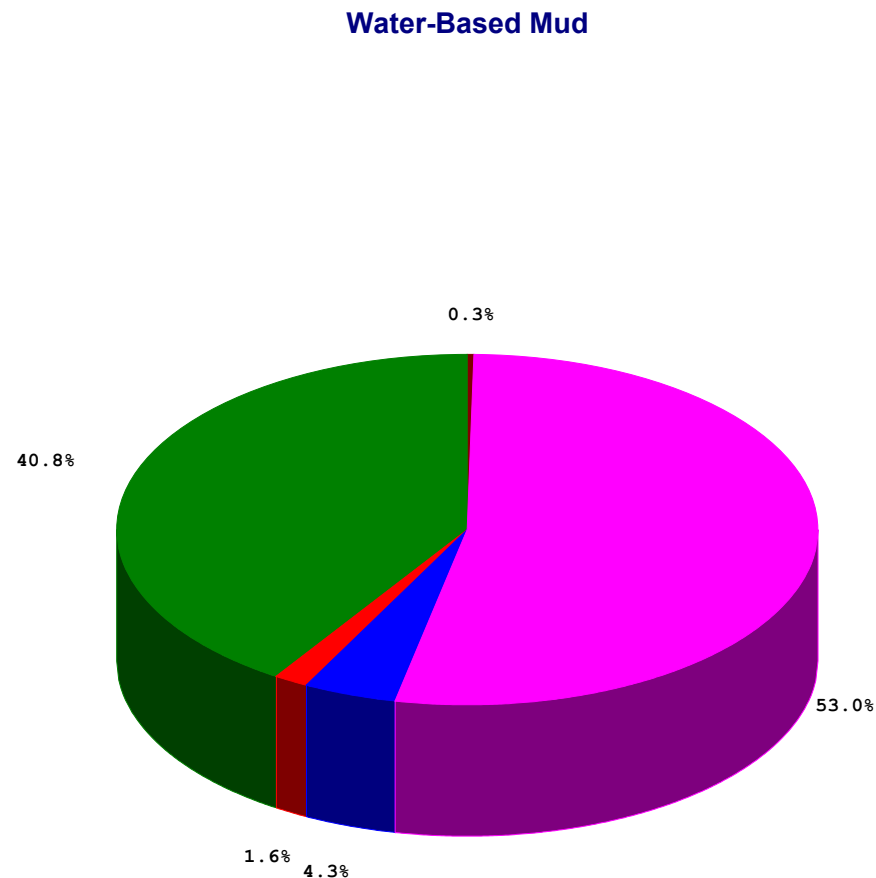
ONE-TRAX

Operator : **OMV Australia**
 Well Name : **Patricia 2**
 Field/Area : **VIC / L21**
 Description : **Development**
 Location : **Bass Strait**

Cost Analysis

BREAKDOWN OF COST BY PRODUCT GROUP 20/06/2002 - 8/07/2002, 77 - 1385 m

Water-Based Mud Products	\$	%
1-Common Chemicals	41172.76	40.8
2-Lost Circ Material	1606.64	1.6
3-Lubricant	4311.36	4.3
4-Visc/Fluid Loss	53445.80	53.0
5-Weight Material	315.00	0.3
Water-Based Mud Total Cost:	100851.56	100.0





DRILLING FLUIDS RECAP
PATRICIA 2



HYDRAULICS REPORT



HYDRAULICS SUMMARY

Operator : OMV Australia

Field/Area : VIC / L21

Well Name : Patricia 2

Description : Development

Contractor : Diamond Offshore

Location : Bass Strait

Date		20/06/2002	21/06/2002	22/06/2002	23/06/2002	24/06/2002	25/06/2002	26/06/2002	27/06/2002
Depth	m	112	334	334	401	710	884	884	1379
Days Since Spud		1	2	3	4	5	6	7	8
*RHEOLOGICAL PROPERTIES									
Mud Wt	sp.gr.	1.04	1.06	1.03	1.06	1.08	1.12	1.07	1.12
Plastic Visc	cP			22	10	12	14	9	11
Yield Point	lb/100ft ²			53	20	29	30	37	32
3-rpm Rdg	Fann deg			24	7	10	14	17	14
np Value		.	.	.3711	.415	.3704	.3985	.2578	.3286
Kp Value	lb*s^n/100ft ²	.	.	7.9095	2.4054	4.3434	3.91	9.8333	5.91
na Value		.	.	.2259	.2848	.2833	.1977	.2218	.2267
Ka Value	lb*s^n/100ft ²	.	.	17.7142	4.6939	6.722	10.8208	12.6327	10.3204
*FLOW DATA									
Flow Rate	gal/min	910	799	0	855	850	850	0	586
Pump Pressure	psi	710	1250	0	1400	2000	2000	0	2000
Pump	hhp	377	*	*	698	992	*	*	684
*PRESSURE LOSSES									
Drill String	psi		*	*	257	373	*	*	531
Bit	psi		*	*	647	651	*	*	1453
Annulus	psi		*	*	11	28	*	*	190
Total System	psi		*	*	915	1052	*	*	2174
*BIT HYDRAULICS									
Nozzles	1/32"	3x24	3x24		3x15	3x15	3x15	3x14	3x14
Nozzles	1/32"	4x22			24	24	24		
Bit Pressure	%		*	*	46	33	*	*	73
Bit	hhp		*	*	323	323	*	*	497
Bit HSI	(index)	.	*	*	2.74	2.74	*	*	8.76
Jet Velocity	ft/s	32	*	*	87	87	*	*	127
Impact Force	lbf		*	*	1119	1127	*	*	1182
DRILL COLLARS ANNULUS									
Velocity	ft/min	32	*	*	234	215	*	*	474
Critical Vel	ft/min		*	*	333	400	*	*	476
Reynolds Number			*	*	1416	890	*	*	2641
Crit Re (Lam - Tran)		3470	*	*	2901	2963	*	*	3020
*DRILL PIPE ANNULUS									
Velocity	ft/min		*	*	158	149	*	*	282
Critical Vel	ft/min		*	*	303	366	*	*	439
Reynolds Number			*	*	847	551	*	*	1218
Crit Re (Lam - Tran)		3470	*	*	2901	2963	*	*	3020
*HOLE CLEANING									
Slip Velocity	ft/min	1	*	*	18	15	*	*	13
Rising Velocity	ft/min	-1	*	*	140	133	*	*	269
Lifting Capacity	%	*	*	*	88	90	*	*	95
Cutting Conc	%	1.0	*	*	1.06	1.05	*	*	0.0
Penetration Rate	m/h	40	40	0	24	24	24	0	0
CASING SHOE PRESSURES									
ECD	sp.gr.	0.0	*	*	1.08	1.11	*	*	1.3
ECD+Cuttings	sp.gr.	0.02	*	*	1.09	1.12	*	*	1.3
TOTAL DEPTH PRESSURES									
ECD	sp.gr.	0.0	*	*	1.08	1.11	*	*	1.31
ECD+Cuttings	sp.gr.	0.02	*	*	1.1	1.13	*	*	1.31



HYDRAULICS SUMMARY

Operator : OMV Australia
Well Name : Patricia 2
Contractor : Diamond Offshore

Field/Area : VIC / L21
Description : Development
Location : Bass Strait

Date	28/06/2002	29/06/2002	30/06/2002	1/07/2002	2/07/2002	3/07/2002	4/07/2002	5/07/2002
Depth	m	1385	1385	1385	1385	1385	1385	1385
Days Since Spud		9	10	11	12	13	14	15
*RHEOLOGICAL PROPERTIES								
Mud Wt	sp.gr.	1.08	1.08	1.08	1.08	1.08	1.08	1.08
Plastic Visc	cP							
Yield Point	lb/100ft ²							
3-rpm Rdg	Fann deg							
np Value		.3286	.3286	.3286	.3286	.3286	.3286	.3286
Kp Value	lb*s ⁿ /100ft ²	5.91	5.91	5.91	5.91	5.91	5.91	5.91
na Value		.2267	.2267	.2267	.2267	.2267	.2267	.2267
Ka Value	lb*s ⁿ /100ft ²	10.3204	10.3204	10.3204	10.3204	10.3204	10.3204	10.3204
*FLOW DATA								
Flow Rate	gal/min	0	0	0	0	0	0	0
Pump Pressure	psi	0	0	0	0	0	0	0
Pump	hhp	*	*	*	*	*	*	*
*PRESSURE LOSSES								
Drill String	psi	*	*	*	*	*	*	*
Bit	psi	*	*	*	*	*	*	*
Annulus	psi	*	*	*	*	*	*	*
Total System	psi	*	*	*	*	*	*	*
*BIT HYDRAULICS								
Nozzles	1/32"							
Nozzles	1/32"							
Bit Pressure	%	*	*	*	*	*	*	*
Bit	hhp	*	*	*	*	*	*	*
Bit HSI	(index)	*	*	*	*	*	*	*
Jet Velocity	ft/s	*	*	*	*	*	*	*
Impact Force	lbf	*	*	*	*	*	*	*
DRILL COLLARS ANNULUS								
Velocity	ft/min	*	*	*	*	*	*	*
Critical Vel	ft/min	*	*	*	*	*	*	*
Reynolds Number		*	*	*	*	*	*	*
Crit Re (Lam - Tran)		*	*	*	*	*	*	*
*DRILL PIPE ANNULUS								
Velocity	ft/min	*	*	*	*	*	*	*
Critical Vel	ft/min	*	*	*	*	*	*	*
Reynolds Number		*	*	*	*	*	*	*
Crit Re (Lam - Tran)		*	*	*	*	*	*	*
*HOLE CLEANING								
Slip Velocity	ft/min	*	*	*	*	*	*	*
Rising Velocity	ft/min	*	*	*	*	*	*	*
Lifting Capacity	%	*	*	*	*	*	*	*
Cutting Conc	%	*	*	*	*	*	*	*
Penetration Rate	m/h	0	0	0	0	0	0	0
CASING SHOE PRESSURES								
ECD	sp.gr.	*	*	*	*	*	*	*
ECD+Cuttings	sp.gr.	*	*	*	*	*	*	*
TOTAL DEPTH PRESSURES								
ECD	sp.gr.	*	*	*	*	*	*	*
ECD+Cuttings	sp.gr.	*	*	*	*	*	*	*



HYDRAULICS SUMMARY

Operator : OMV Australia

Field/Area : VIC / L21

Well Name : Patricia 2

Description : Development

Contractor : Diamond Offshore

Location : Bass Strait

Date		6/07/2002						
Depth	m	1385						
Days Since Spud		17						
*RHEOLOGICAL PROPERTIES								
Mud Wt	sp.gr.	1.08						
Plastic Visc	cP							
Yield Point	lb/100ft ²							
3-rpm Rdg	Fann deg							
np Value		.3286						
Kp Value	lb*s ⁿ /100ft ²	5.91						
na Value		.2267						
Ka Value	lb*s ⁿ /100ft ²	10.3204						
*FLOW DATA								
Flow Rate	gal/min	0						
Pump Pressure	psi	0						
Pump	hhp	*						
*PRESSURE LOSSES								
Drill String	psi	*						
Bit	psi	*						
Annulus	psi	*						
Total System	psi	*						
*BIT HYDRAULICS								
Nozzles	1/32"							
Nozzles	1/32"							
Bit Pressure	%	*						
Bit	hhp	*						
Bit HSI	(index)	*						
Jet Velocity	ft/s	*						
Impact Force	lbf	*						
DRILL COLLARS ANNULUS								
Velocity	ft/min	*						
Critical Vel	ft/min	*						
Reynolds Number		*						
Crit Re (Lam - Tran)		*						
*DRILL PIPE ANNULUS								
Velocity	ft/min	*						
Critical Vel	ft/min	*						
Reynolds Number		*						
Crit Re (Lam - Tran)		*						
*HOLE CLEANING								
Slip Velocity	ft/min	*						
Rising Velocity	ft/min	*						
Lifting Capacity	%	*						
Cutting Conc	%	*						
Penetration Rate	m/h	0						
CASING SHOE PRESSURES								
ECD	sp.gr.	*						
ECD+Cuttings	sp.gr.	*						
TOTAL DEPTH PRESSURES								
ECD	sp.gr.	*						
ECD+Cuttings	sp.gr.	*						



DRILLING FLUIDS RECAP
PATRICIA 2



DRILLING FLUIDS SUMMARY



DRILLING FLUIDS SUMMARY

Operator : OMV Australia

Field/Area : VIC / L21

Well Name : Patricia 2

Description : Development

Contractor : Diamond Offshore

Location : Bass Strait

Date	20/06/2002	20/06/2002	21/06/2002	22/06/2002	23/06/2002	24/06/2002	
Depth/TVD	m	111.5/111.5	/	334/326	334/326	401/399	710/643
Activity		Drilled 36" section	Drilled 36" section	Drill 17.1/2" hole	Run BOPs	Drilling	Drilling
Mud Type		SW & Hi Vis	SW & Hi Vis	SW & Hi Vis	Mix PHPA/KC	PHPA/KC/GI	PHPA/KC/GI
Hole Size	in	36	36	17.5	12.25	12.25	12.25
Circ Volume	bbbl	79	79	323	223	999	1457
Flow Rate	gal/min	910	910	799	0	855	850
Circ Pressure	psi	710	710	1250	0	1400	2000
Avg ROP	m/hr	40	40	40	0	24	24
Sample From			Sentinel	Pit	Pit #4	Pit # 4	Pit # 4
Flow Line Temp	°C					23	46
Mud Weight	sp.gr.	1.04 @ °C	1.2 @ °C	1.06 @ °C	1.03 @ °C	1.06 @ 23 °C	1.08 @ 35 °C
Funnel Viscosity	s/qt	> 100	51	100	>100	55	54
PV	cP		13		22	10	12
YP	lb/100ft ²		30		53	20	29
R600/R300/R200		//	56/43/	//	97/75/65	40/30/24	53/41/35
R100/R6/R3		//	/15/	//	53/28/24	19/9/7	27/12/10
10s/10m/30m Gel	lb/100ft ²	//	12/18/	//	20/28/30	8/10/10	11/14/15
API Fluid Loss	cc/30 min					5.9	5.4
HTHP Fluid Loss	cc/30 min						
Cake API/HT	1/32"	/	/	/	/	1/	1/
Solids	%Vol					2.5	5
Oil/Water	%Vol	/	/	/	/	0/97.5	3/92
Sand	%Vol						tr
MBT	lb/bbl					1	2.5
pH						9.0	8.7
Alkal Mud (Pm)						0.3	0.1
Pf/Mf		/	/	/	/	0.2/	0.15/0.6
Chlorides	mg/l					42000	35000
Hardness Ca						1200	1180
KCL % by wt	%					5.5	5
LSRV 1	cP					1	0.8
LSRV 2	cP					3	3
LSRV 3	cP					40	20
Daily Mud Cost	\$	2730.28		5641.81	19856.44	10394.47	10285.28
Cum Mud Cost	\$	2730.28		8372.09	28228.53	38623.00	48908.28
Sales Engineer		Dave Di/Graeme	Dave Di/Graeme	Dave Di/Graeme	Dave Di/Graeme	Dave Di/Graeme	Dave Di/Graeme
Products Used		MI Gel / 320		Na2Co3 / 4	Duotec / 32	Duotec / 16	Duotec / 6
		NaOH / 6		MI Gel / 634	GlydLC / 18	GlydLC / 8	GlydLC / 14
		Na2Co3 / 3		CaCl2 / 29	os1 / 4	os1 / 2	Poly+ / 6
				NaOH / 11	Poly+ / 12	Poly+ / 6	
					Pac UL / 16	Pac UL / 8	
					NaHCO3 / 4	KCL / 4	
						NaHCO3 / 1	

REMARKS

20/06/2002: Spud Well, Run in & Cement Casing.

21/06/2002: Drill 17.1/2" interval.

22/06/2002: Run B.O.P.s and riser

23/06/2002: Drill out casing shoe, Run leak off test. Drill ahead.

24/06/2002: Drill 12.1/4" interval.



DRILLING FLUIDS SUMMARY

Operator : OMV Australia

Field/Area : VIC / L21

Well Name : Patricia 2

Description : Development

Contractor : Diamond Offshore

Location : Bass Strait

Date	24/06/2002	25/06/2002	25/06/2002	26/06/2002	27/06/2002	27/06/2002	
Depth/TVD	m	530/521	884/702	854/692	884/702	1379/701	1014/700
Activity		Drilling	Tripping	Tripping	Drill Out	Drilling	Drilling
Mud Type		PHPA/KCl/GI	PHPA/KCl/GI	PHPA/KCl/GI	Flo-Pro	Flo-Pro	Flo-Pro
Hole Size	in	12.25	12.25	12.25	8.5	8.5	8.5
Circ Volume	bbbl	1457	1567	1567	1311	1178	1178
Flow Rate	gal/min	850	850	850	0	586	586
Circ Pressure	psi	2000	2000	2000	0	2000	2000
Avg ROP	m/hr	24	24	24	0	0	0
Sample From		Pit 4	Pit # 4	Pit	Pit # 1	Pit # 4	Pit
Flow Line Temp	°C	30		49		45	38
Mud Weight	sp.gr.	1.04@30 °C	1.12 @49 °C	1.10 @49 °C	1.07@ °C	1.12@45 °C	1.09@38 °C
Funnel Viscosity	s/qt	50	55	57	120	60	69
PV	cP	9	14	15	9	11	11
YP	lb/100ft ²	18	30	37	37	32	34
R600/R300/R200		36/27/23	58/44/37	67/52/45	55/46/42	54/43/39	56/45/40
R100/R6/R3		18/9/7	28/16/14	35/15/13	37/19/17	31/16/14	32/17/15
10s/10m/30m Gel	lb/100ft ²	7/11/13	13/18/22	14/21/24	17/20/23	15/18/23	18/22/24
API Fluid Loss	cc/30 min	5.6	6.4	6.8	5.2	4.8	5.2
HTHP Fluid Loss	cc/30 min						
Cake API/HT	1/32"	1/	1/	1/	1/	1/	1/
Solids	%Vol	5	7	6	4	8	6
Oil/Water	%Vol	3/92	3/90	3/91	0/96	/92	/94
Sand	%Vol	tr	tr	1		0.25	.25
MBT	lb/bbl	1.25	5	5	1	2	1
pH		8.7	8.7	8.7	8.9	9.5	9.5
Alkal Mud (Pm)		0.1	0	0.0	0.8	0.2	0.6
Pf/Mf		0.1/0.6	0.1/0.7	0.05/0.8	0.2/0.5	0.1/0.6	0.1/0.5
Chlorides	mg/l	41000	45000	45000	32000	72000	72000
Hardness Ca		1200	1200	1200	350	400	320
KCL % by wt	%	5.5	5.5	5.5	3	3	3
LSRV 1	cP	0.8	0.8	0.8	45000	59187	64000
LSRV 2	cP	3	3	3	54288	64086	69985
LSRV 3	cP	20	10	10	54788	62687	69485
Daily Mud Cost	\$		863.90		28639.63	10073.44	
Cuml Mud Cost	\$		49772.18		78411.81	88485.25	
Sales Engineer		Dave Di/Graeme	Dave Di/Graeme	Dave Di/Graeme	Dave Di/Graeme	Dave Di/Graeme	Dave Di/Graeme
Products Used			BARBK / 50		DualFlo / 53	DualFlo / 13	
			KCL / 2		Flovis+ / 45	Flovis+ / 11	
					Glute25 / 4	Glute25 / 1	
					os1 / 8	os1 / 2	
					KCL / 6	KCL / 8	
					KOH / 7	KOH / 2	
					Om 1 / 28	NaCl / 8	
					OM 8 / 217		
					OM10 / 21		
					NaCl / 3		

REMARKS

25/06/2002: Drilled to interval depth of 884 m.

26/06/2002: Set and cemented 9.5/8" casing. Prepare for 8.1/2" hole.

27/06/2002: Commence drilling 8.1/2" interval with Flo pro system.



DRILLING FLUIDS SUMMARY

Operator : OMV Australia

Field/Area : VIC / L21

Well Name : Patricia 2

Description : Development

Contractor : Diamond Offshore

Location : Bass Strait

Date	28/06/2002	29/06/2002	30/06/2002	1/07/2002	2/07/2002	3/07/2002	
Depth/TVD	m	1385/701	1385/701	1385/701	1385/701	1385/701	
Activity	Completion program	Well completion	Well Completion	Well Completion	Well completion	Flowing well	
Mud Type	Brine	Brine	Brine	Brine	Brine	Brine	
Hole Size	in	8.5	8.5	8.5	8.5	8.5	
Circ Volume	bbbl	773	1213	1213	1029	810	
Flow Rate	gal/min	0	0	0	0	0	
Circ Pressure	psi	0	0	0	0	0	
Avg ROP	m/hr	0	0	0	0	0	
Sample From	Pit						
Flow Line Temp	°C						
Mud Weight	sp.gr.	1.08 @ °C	1.08 @ °C	1.08 @ °C	1.08 @ °C	1.08 @ °C	
Funnel Viscosity	s/qt						
PV	cP						
YP	lb/100ft ²						
R600/R300/R200		//	//	//	//	//	
R100/R6/R3		//	//	//	//	//	
10s/10m/30m Gel	lb/100ft ²	//	//	//	//	//	
API Fluid Loss	cc/30 min						
HTHP Fluid Loss	cc/30 min						
Cake API/HT	1/32"	/	/	/	/	/	
Solids	%Vol						
Oil/Water	%Vol	/	/	/	/	/	
Sand	%Vol						
MBT	lb/bbl						
pH							
Alkal Mud (Pm)							
Pf/Mf		/	/	/	/	/	
Chlorides	mg/l						
Hardness Ca							
KCL % by wt	%						
LSRV 1	cP						
LSRV 2	cP						
LSRV 3	cP						
Daily Mud Cost	\$	6040.15	10730.44	1225.58	548.90	661.24	0.00
Cuml Mud Cost	\$	94525.40	105255.84	106481.42	107030.32	107691.56	107691.56
Sales Engineer	/Graeme	/Graeme	/Graeme	/Graeme	/Graeme	/Graeme	/Graeme
Products Used	Duotec / 4	Duotec / 4	NaOH / 2	KCL / 2	DefoamA / 2		
	DefoamA / 3	wellzym / 4	osl / 2		KCL / 2		
	SS WN / 4	NaCl / 13	KCL / 2				
	NaCl / 6	bRINE / 400	con303 / 3				

REMARKS

28/06/2002: Total depth of 1385 m was reached and the hole was cleaned up. Run sand screens.
 29/06/2002: Completion program
 30/06/2002: Continue with well completion
 1/07/2002: continue well completion.
 2/07/2002: Continued well completion.
 3/07/2002: Continue well completion with the flowing of the well.



DRILLING FLUIDS SUMMARY

Operator : OMV Australia

Field/Area : VIC / L21

Well Name : Patricia 2

Description : Development

Contractor : Diamond Offshore

Location : Bass Strait

Date		4/07/2002	5/07/2002	6/07/2002		
Depth/TVD	m	1385/701	1385/701	1385/701		
Activity		Well Testing	Well suspension	Weather watch		
Mud Type		Brine	Brine	Brine		
Hole Size	in	8.5	8.5	8.5		
Circ Volume	bbbl	810	810	810		
Flow Rate	gal/min	0	0	0		
Circ Pressure	psi	0	0	0		
Avg ROP	m/hr	0	0	0		
Sample From						
Flow Line Temp	°C					
Mud Weight	sp.gr.	1.08 @ °C	1.08 @ °C	1.08 @ °C		
Funnel Viscosity	s/qt					
PV	cP					
YP	lb/100ft²					
R600/R300/R200		//	//	//		
R100/R6/R3		//	//	//		
10s/10m/30m Gel	lb/100ft²	//	//	//		
API Fluid Loss	cc/30 min					
HTHP Fluid Loss	cc/30 min					
Cake API/HT	1/32"	/	/	/		
Solids	%Vol					
Oil/Water	%Vol	/	/	/		
Sand	%Vol					
MBT	lb/bbl					
pH						
Alkal Mud (Pm)						
Pf/Mf		/	/	/		
Chlorides	mg/l					
Hardness Ca						
KCL % by wt	%					
LSRV 1	cP					
LSRV 2	cP					
LSRV 3	cP					
Daily Mud Cost	\$	0.00	0.00	0.00		
Cuml Mud Cost	\$	107691.56	107691.56	107691.56		
Sales Engineer		/Graeme	/Graeme	/Graeme		
Products Used						

REMARKS

4/07/2002: Continue testing Patricia # 2
 5/07/2002: Completed well testing and commenced well suspension
 6/07/2002: Continue well suspension until shut down by weather



DRILLING FLUIDS RECAP
PATRICIA 2



PRODUCT CONSUMPTION



**Drilling
Fluids**

Product Consumption

Operator : OMV Australia
Well Name : Patricia 2
Location : Bass Strait
Field/Area: VIC / L21

Contractor: Diamond Offshore
M-I Engineer: Graeme Garrick
Rig Name: Ocean Bounty
Stock Point: Geelong

Product Name	DATES											Page Totals
	Product Price	Jun 20, 2002		Jun 21, 2002		Jun 22, 2002		Jun 23, 2002		Jun 24, 2002		
		Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
Barite Bulk	6.30		0.00		0.00		0.00		0.00		0.00	0.00
Gel Bulk	8.12	320	2598.40	634	5148.08		0.00		0.00		0.00	7746.48
Calcium Chloride	9.17		0.00	29	265.93		0.00		0.00		0.00	265.93
Caustic Soda	17.32	6	103.92	11	190.52		0.00		0.00		0.00	294.44
Citric Acid	26.31		0.00		0.00		0.00		0.00		0.00	0.00
Dual-Flo	94.75		0.00		0.00		0.00		0.00		0.00	0.00
Duotec	192.61		0.00		0.00	32	6163.52	16	3081.76	6	1155.66	10400.94
Defoam A	56.17		0.00		0.00		0.00		0.00		0.00	0.00
Flo-Vis Plus	421.14		0.00		0.00		0.00		0.00		0.00	0.00
Glute-25	67.75		0.00		0.00		0.00		0.00		0.00	0.00
GlydriL LC	621.94		0.00		0.00	18	11194.92	8	4975.52	14	8707.16	24877.60
Guar Gum	33.68		0.00		0.00		0.00		0.00		0.00	0.00
Kwik Seal Fine	28.19		0.00		0.00		0.00		0.00		0.00	0.00
Kwik Seal Medium	28.19		0.00		0.00		0.00		0.00		0.00	0.00
Lime	6.64		0.00		0.00		0.00		0.00		0.00	0.00
Mix II Fine	22.93		0.00		0.00		0.00		0.00		0.00	0.00
OS-1	31.94		0.00		0.00	4	127.76	2	63.88		0.00	191.64
Pipelax W	326.34		0.00		0.00		0.00		0.00		0.00	0.00
Polyplus Dry	70.41		0.00		0.00	12	844.92	6	422.46	6	422.46	1689.84
Polypac UL	92.93		0.00		0.00	16	1486.88	8	743.44		0.00	2230.32
KCL-Geel	274.45		0.00		0.00		0.00	4	1097.80		0.00	1097.80
Potassium Hydroxide	28.96		0.00		0.00		0.00		0.00		0.00	0.00
Safe Surf WN	933.30		0.00		0.00		0.00		0.00		0.00	0.00
Soda Ash	9.32	3	27.96	4	37.28		0.00		0.00		0.00	65.24
Sodium Bicarbonate	9.61		0.00		0.00	4	38.44	1	9.61		0.00	48.05
Omyacarb 1	6.04		0.00		0.00		0.00		0.00		0.00	0.00
Omyacarb 8	6.04		0.00		0.00		0.00		0.00		0.00	0.00
Zinc Carbonate	32.88		0.00		0.00		0.00		0.00		0.00	0.00
Flossy Salt	6.50		0.00		0.00		0.00		0.00		0.00	0.00
Conqor 303A	192.72		0.00		0.00		0.00		0.00		0.00	0.00
Omyacarb 40	6.20		0.00		0.00		0.00		0.00		0.00	0.00
CircaL 1000	7.25		0.00		0.00		0.00		0.00		0.00	0.00
CircaL Y Grade	7.25		0.00		0.00		0.00		0.00		0.00	0.00
Safe Peel	395.50		0.00		0.00		0.00		0.00		0.00	0.00
Wellzyme A	1749.00		0.00		0.00		0.00		0.00		0.00	0.00
MIX II Medium	20.00		0.00		0.00		0.00		0.00		0.00	0.00
Omyacarb 10	6.04		0.00		0.00		0.00		0.00		0.00	0.00
KCL-Welsh	287.45		0.00		0.00		0.00		0.00		0.00	0.00
KCL-Eden	323.45		0.00		0.00		0.00		0.00		0.00	0.00
SALT (BIG BAG)	228.00		0.00		0.00		0.00		0.00		0.00	0.00
BRINE	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Cumulative Engineering			0.00		0.00		0.00		0.00		0.00	0.00
Daily Product			2730.28		5641.81		19856.44		10394.47		10285.28	48908.28
Daily Sales Tax			0		0		0		0		0	0.00
Cumulative Product			2730.28		8372.09		28228.53		38623.00		48908.28	48908.28
Cumulative Cost			2730.28		8372.09		28228.53		38623.00		48908.28	48908.28



**Drilling
Fluids**

Product Consumption

Operator : OMV Australia

Contractor: Diamond Offshore

Well Name : Patricia 2

M-I Engineer: Graeme Garrick

Location : Bass Strait

Rig Name: Ocean Bounty

Field/Area: VIC / L21

Stock Point: Geelong

Product Name	DATES											
	Previous	Jun 25, 2002		Jun 26, 2002		Jun 27, 2002		Jun 28, 2002		Jun 29, 2002		Page
	Page	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Totals
Barite Bulk	0.00	50	315.00		0.00		0.00		0.00		0.00	315.00
Gel Bulk	7746.48		0.00		0.00		0.00		0.00		0.00	7746.48
Calcium Chloride	265.93		0.00		0.00		0.00		0.00		0.00	265.93
Caustic Soda	294.44		0.00		0.00		0.00		0.00		0.00	294.44
Citric Acid	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Dual-Flo	0.00		0.00	53	5021.75	13	1231.75		0.00		0.00	6253.50
Duotec	10400.94		0.00		0.00		0.00	4	770.44	4	770.44	11941.82
Defoam A	0.00		0.00		0.00		0.00	3	168.51		0.00	168.51
Flo-Vis Plus	0.00		0.00	45	18951.30	11	4632.54		0.00		0.00	23583.84
Glute-25	0.00		0.00	4	271.00	1	67.75		0.00		0.00	338.75
GlydriL LC	24877.60		0.00		0.00		0.00		0.00		0.00	24877.60
Guar Gum	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Kwik Seal Fine	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Kwik Seal Medium	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Lime	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Mix II Fine	0.00		0.00		0.00		0.00		0.00		0.00	0.00
OS-1	191.64		0.00	8	255.52	2	63.88		0.00		0.00	511.04
Pipelax W	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Polyplus Dry	1689.84		0.00		0.00		0.00		0.00		0.00	1689.84
Polypac UL	2230.32		0.00		0.00		0.00		0.00		0.00	2230.32
KCL-Geel	1097.80	2	548.90	6	1646.70	8	2195.60		0.00		0.00	5489.00
Potassium Hydroxide	0.00		0.00	7	202.72	2	57.92		0.00		0.00	260.64
Safe Surf WN	0.00		0.00		0.00		0.00	4	3733.20		0.00	3733.20
Soda Ash	65.24		0.00		0.00		0.00		0.00		0.00	65.24
Sodium Bicarbonate	48.05		0.00		0.00		0.00		0.00		0.00	48.05
Omyacarb 1	0.00		0.00	28	169.12		0.00		0.00		0.00	169.12
Omyacarb 8	0.00		0.00	217	1310.68		0.00		0.00		0.00	1310.68
Zinc Carbonate	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Flossy Salt	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Conqor 303A	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Omyacarb 40	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Circal 1000	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Circal Y Grade	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Safe Peel	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Wellzyme A	0.00		0.00		0.00		0.00		0.00	4	6996.00	6996.00
MIX II Medium	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Omyacarb 10	0.00		0.00	21	126.84		0.00		0.00		0.00	126.84
KCL-Welsh	0.00		0.00		0.00		0.00		0.00		0.00	0.00
KCL-Eden	0.00		0.00		0.00		0.00		0.00		0.00	0.00
SALT (BIG BAG)	0.00		0.00	3	684.00	8	1824.00	6	1368.00	13	2964.00	6840.00
BRINE	0.00		0.00		0.00		0.00		0.00	400	0.00	0.00
Cumulative Engineering			0.00		0.00		0.00		0.00		0.00	0.00
Daily Product			863.90		28639.63		10073.44		6040.15		10730.44	105255.84
Daily Sales Tax			0		0		0		0		0	0.00
Cumulative Product			49772.18		78411.81		88485.25		94525.40		105255.84	105255.84
Cumulative Cost			49772.18		78411.81		88485.25		94525.40		105255.84	105255.84



Drilling Fluids

Product Consumption

Operator : OMV Australia
Well Name : Patricia 2
Location : Bass Strait
Field/Area: VIC / L21

Contractor: Diamond Offshore
M-I Engineer: Graeme Garrick
Rig Name: Ocean Bounty
Stock Point: Geelong

Product Name	DATES											
	Previous	Jun 30, 2002		Jul 1, 2002		Jul 2, 2002		Jul 3, 2002		Jul 4, 2002		Page
	Page	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Totals
Barite Bulk	315.00		0.00		0.00		0.00		0.00		0.00	315.00
Gel Bulk	7746.48		0.00		0.00		0.00		0.00		0.00	7746.48
Calcium Chloride	265.93		0.00		0.00		0.00		0.00		0.00	265.93
Caustic Soda	294.44	2	34.64		0.00		0.00		0.00		0.00	329.08
Citric Acid	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Dual-Flo	6253.50		0.00		0.00		0.00		0.00		0.00	6253.50
Duotec	11941.82		0.00		0.00		0.00		0.00		0.00	11941.82
Defoam A	168.51		0.00		0.00	2	112.34		0.00		0.00	280.85
Flo-Vis Plus	23583.84		0.00		0.00		0.00		0.00		0.00	23583.84
Glute-25	338.75		0.00		0.00		0.00		0.00		0.00	338.75
GlydriL LC	24877.60		0.00		0.00		0.00		0.00		0.00	24877.60
Guar Gum	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Kwik Seal Fine	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Kwik Seal Medium	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Lime	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Mix II Fine	0.00		0.00		0.00		0.00		0.00		0.00	0.00
OS-1	511.04	2	63.88		0.00		0.00		0.00		0.00	574.92
Pipelax W	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Polyplus Dry	1689.84		0.00		0.00		0.00		0.00		0.00	1689.84
Polypac UL	2230.32		0.00		0.00		0.00		0.00		0.00	2230.32
KCL-Geel	5489.00	2	548.90	2	548.90	2	548.90		0.00		0.00	7135.70
Potassium Hydroxide	260.64		0.00		0.00		0.00		0.00		0.00	260.64
Safe Surf WN	3733.20		0.00		0.00		0.00		0.00		0.00	3733.20
Soda Ash	65.24		0.00		0.00		0.00		0.00		0.00	65.24
Sodium Bicarbonate	48.05		0.00		0.00		0.00		0.00		0.00	48.05
Omyacarb 1	169.12		0.00		0.00		0.00		0.00		0.00	169.12
Omyacarb 8	1310.68		0.00		0.00		0.00		0.00		0.00	1310.68
Zinc Carbonate	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Flossy Salt	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Conqor 303A	0.00	3	578.16		0.00		0.00		0.00		0.00	578.16
Omyacarb 40	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Circal 1000	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Circal Y Grade	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Safe Peel	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Wellzyme A	6996.00		0.00		0.00		0.00		0.00		0.00	6996.00
MIX II Medium	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Omyacarb 10	126.84		0.00		0.00		0.00		0.00		0.00	126.84
KCL-Welsh	0.00		0.00		0.00		0.00		0.00		0.00	0.00
KCL-Eden	0.00		0.00		0.00		0.00		0.00		0.00	0.00
SALT (BIG BAG)	6840.00		0.00		0.00		0.00		0.00		0.00	6840.00
BRINE	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Cumulative Engineering			0.00		0.00		0.00		0.00		0.00	0.00
Daily Product			1225.58		548.90		661.24		0.00		0.00	107691.56
Daily Sales Tax			0		0		0		0		0	0.00
Cumulative Product			106481.42		107030.32		107691.56		107691.56		107691.56	107691.56
Cumulative Cost			106481.42		107030.32		107691.56		107691.56		107691.56	107691.56



DRILLING FLUIDS RECAP
PATRICIA 2



DAILY MUD REPORTS



WATER-BASED MUD REPORT No. 1

Date	20/06/2002	Depth/TVD	111.5 m / 111.5 m
Spud Date	20/06/2002	Mud Type	SW & Hi Vis Sweeps
Water Depth	53	Activity	Drilled 36"section.

Operator : OMV Australia
Report For : G. Howard & J. Kendrick
Well Name : Patricia 2
Contractor : Diamond Offshore
Report For : R.Graham

Field/Area : VIC / L21
Description : Development
Location : Bass Strait
Well No. :

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size 36 in 26"bit,36"H/O		Surface	Hole	Pump Make	NATIONAL 12P-16	NATIONAL 12P-16
Nozzles 3x24/4x22 / 1/32"		30in @111m (111TVD)	78.8(Tot)/77.8(Bit)	Pump Size	6 X 12.in	6 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	4.274 gal/stk	4.274 gal/stk
5 in	49 m	13.375in @326m (318TVD)	- .8	Pump stk/min	107@97%	106@97%
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate		
5 in	m		77	910 gal/min		
Drill Collar Size	Length	Production or Liner	In Storage	Bottoms Up		
9.5 in	33 m		661	3.4 min 729 stk		
				Total Circ Time		
				3.6 min 757 stk		
				Circulating Pressure		
				710 psi		

MUD PROPERTIES				PRODUCTS USED LAST 24 HRS		
Sample From		Sentinel		Products	Size	Amt
Flow Line Temp °C				Gel Bulk	100 LB BG	320
Depth/TVD m	111.5/111.5			Caustic Soda	25 KG DM	6
Mud Weight sp.gr.	1.04	1.2		Soda Ash	25 KG BG	3
Funnel Viscosity s/qt	> 100	51				
Rheology Temp °C						
R600/R300		56/43				
R200/R100						
R6/R3						
PV cP		13				
YP lb/100ft ²		30				
10s/10m/30m Gel lb/100ft ²		12/18/				
API Fluid Loss cc/30 min						
HTHP FL Temp cc/30 min						
Cake API/HTHP 1/32"						
Solids %Vol						
Oil/Water %Vol						
Sand %Vol						
MBT lb/bbl				SOLIDS EQUIP		
pH					Size	Hr
Alkal Mud (Pm)				Thule VSM 100 S		0
Pf/Mf				Thule VSM 100 S		0
Chlorides mg/l				Thule VSM 100 S		0
Hardness Ca mg/l				D-Sander		0
				D-Silter		0
				Degasser		0
KCL % by wt	%					
LSRV 1 cP						
LSRV 2 cP						
LSRV 3 cP						
				MUD PROPERTY SPECS		
				Weight	1.04	
				Viscosity	>100	
				Filtrate	n/c	

REMARKS AND TREATMENT

Drill water received from Pacific Sentinel: pH 7.5 Cl- 200 mg/l. Ca 180 mg/l. Rec'd 480 bbls old mud from Sentinel. Mixed 885 bbls PHG The interval was drilled with seawater and high viscosity sweeps. The sweeps used old mud and PHG on connection

REMARKS

Run Anchors and position rig. Run casing an latch to guide base. Secure in moonpool. Seabed tagged at 77.5 m.Spud Well, Drill to interval T.D. Circulate hole clean and displace to Hi Viscosity mud. Run in & Cement Casing at 111 m.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG (bbl)	SOLIDS ANALYSIS (%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS		
Rig Up/Service	12	Oil Added 0	NaCl /	np/na Values	0.329/0.227	
Drilling	2	Water Added 850	KCl /	kp/ka (lb*s^n/100ft ²)	5.910/10.320	
Tripping	2	Mud Received 480	Low Gravity /	Bit Loss (psi / %)	90 / 12.7	
Running Casing	5	Dumped 0	Bentonite /	Bit HHP (hhp / HSI)	48 /	
B.O.P. Testing		Shakers 0	Drill Solids /	Bit Jet Vel (ft/s)	32	
Cementing	3	Evaporation 0	Weight Material NA/ NA	Ann. Vel DP (ft/min)		
Condition Hole		Centrifuge 0	Chemical Conc - /	Ann. Vel DC (ft/min)	32.15	
Condition Mud		Formation 0	Inert/React	Crit Vel DP (ft/min)		
Coring		Left in Hole 145	Average SG	Crit Vel DC (ft/min)		
Dev. Survey		Sweeps 559	Carb/BiCarb (m mole/L) /	ECD.@ 1351 (sp.gr.)	1.3	
M-I ENGR / PHONE		RIG PHONE		WAREHOUSE PHONE		DAILY COST
Graeme Garrick 08 9325 4822						CUMULATIVE COST
Dave Dixon 08 9325 4822						\$ 2,730.28
						\$ 2,730.28



WATER-BASED MUD REPORT No. 2

Date	21/06/2002	Depth/TVD	334 m / 326 m
Spud Date	20/06/2002	Mud Type	SW & Hi Vis Sweeps
Water Depth	53	Activity	Drill 17.1/2" hole

Operator : OMV Australia Report For : G. Howard & J. Kendrick Well Name : Patricia 2 Contractor : Diamond Offshore Report For : R.Graham	Field/Area : VIC / L21 Description : Development Location : Bass Strait Well No. :
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DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size 17.5 in Sec XTK		Surface	Hole	Pump Make	NATIONAL 12P-16	NATIONAL 12P-16
Nozzles 3x24 / 1/32"		30in @111m (111TVD)	323	Pump Size	6 X 12.in	6 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	4.274 gal/stk	4.274 gal/stk
5 in	m	13.375in @326m (318TVD)		Pump stk/min	70@97%	66@97%
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	799 gal/min	
5 in	m			Bottoms Up	min 0 stk	
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time	min 0 stk	
8.25 in	m			Circulating Pressure	1250 psi	

MUD PROPERTIES				PRODUCTS USED LAST 24 HRS		
Sample From		Pit@07:00		Products	Size	Amt
Flow Line Temp	°C			Gel Bulk	100 LB BG	634
Depth/TVD	m	334/326		Calcium Chloride	25 KG BG	29
Mud Weight	sp.gr.	1.06		Caustic Soda	25 KG DM	11
Funnel Viscosity	s/qt	100		Soda Ash	25 KG BG	4
Rheology Temp	°C					
R600/R300						
R200/R100						
R6/R3						
PV	cP					
YP	lb/100ft ²					
10s/10m/30m Gel	lb/100ft ²					
API Fluid Loss	cc/30 min					
HTHP FL Temp	cc/30 min					
Cake API/HTHP	1/32"					
Solids	%Vol					
Oil/Water	%Vol					
Sand	%Vol			SOLIDS EQUIP	Size	Hr
MBT	lb/bbl			Thule VSM 100 S		0
pH				Thule VSM 100 S		0
Alkal Mud (Pm)				Thule VSM 100 S		0
Pf/Mf				Thule VSM 100 S		0
Chlorides	mg/l			D-Sander		0
Hardness Ca	mg/l			D-Silter		0
				Degasser		0
KCL % by wt	%					
LSRV 1	cP					
LSRV 2	cP					
LSRV 3	cP					
				MUD PROPERTY SPECS		
				Weight	1.04	
				Viscosity	>100	
				Filtrate	n/c	

REMARKS AND TREATMENT	REMARKS
The section was drilled with seawater and PHG sweeps after 250 bbls of old mud was used. The interval depth of 344 m was reached and the hole swept with 100 bbls of PHG followed by the spotting of 320 bbls on bottom. The trip out was tight so a wiper trip was made. Displace hole to PHG. Trip out rig and run 13 3/8" casing. The casing was cemented using CaCl2 mix water.	The cement was allowed to cure and the 17.1/2" drilling assembly was run in to drill out the cement and shoe. Drilling proceeded at an ROP >60 m/hr with alternate periods of sliding to commence the directional kick off. The mud pits were cleaned thoroughly.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG (bbl)	SOLIDS ANALYSIS (%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS
Rig Up/Service	5	Oil Added	0	NaCl /
Drilling	7	Water Added	1342	KCl /
Tripping	4	Mud Received	0	Low Gravity /
Running Casing	6	Dumped	135	Bentonite /
B.O.P. Testing		Shakers	0	Drill Solids /
Cementing	2	Evaporation	0	Weight Material NA/NA
Condition Hole		Centrifuge	0	Chemical Conc - /
Condition Mud		Formation	0	Inert/React
Coring		Left in Hole	645	Average SG
Dev. Survey		Sweeps	1295	Carb/BiCarb (m mole/L) /

M-I ENGR / PHONE		RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Graeme Garrick	08 9325 4822			\$ 5,641.81	\$ 8,372.09
Dave Dixon	08 9325 4822				



WATER-BASED MUD REPORT No. 3

Date	22/06/2002	Depth/TVD	334 m / 326 m
Spud Date	20/06/2002	Mud Type	Mix PHPA/KCl/Glycol
Water Depth	53	Activity	Run BOPs

Operator : OMV Australia Report For : G. Howard & J. Kendrick Well Name : Patricia 2 Contractor : Diamond Offshore Report For : P.Johns	Field/Area : VIC / L21 Description : Development Location : Bass Strait Well No. :
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DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size	12.25 in	Surface 30in @111m (111TVD)	Hole 223.2	Pump Make	NATIONAL 12P-16	NATIONAL 12P-16
Nozzles	1/32"			Pump Size	6 X 12.in	6 X 12.in
Drill Pipe Size	Length	Intermediate 13.375in @326m (318TVD)	Active Pits 33.8	Pump Cap	gal/stk	gal/stk
5 in	m			Pump stk/min		
Drill Pipe Size	Length	Intermediate 9.625in @873m (700TVD)	Total Circulating Vol 33.8	Flow Rate		gal/min
5 in	m			Bottoms Up		
Drill Collar Size	Length	Production or Liner 8.25 in	In Storage 485	Total Circ Time		
8.25 in	m			Circulating Pressure		

MUD PROPERTIES				PRODUCTS USED LAST 24 HRS		
Sample From		Pit #4@20:00		Products	Size	Amt
Flow Line Temp	°C	334/326		Duotec	25 KG BG	32
Depth/TVD	m	334/326		Glydriil LC	208 KG DM	18
Mud Weight	sp.gr.	1.03		OS-1	25 KG BG	4
Funnel Viscosity	s/qt	>100		Polyplus Dry	25 KG BG	12
Rheology Temp	°C	49		Polypac UL	25 KG BG	16
R600/R300		97/75		Sodium Bicarbonate	25 KG BG	4
R200/R100		65/53				
R6/R3		28/24				
PV	cP	22				
YP	lb/100ft²	53				
10s/10m/30m Gel	lb/100ft²	20/28/30				
API Fluid Loss	cc/30 min					
HTHP FL Temp	cc/30 min					
Cake API/HTHP	1/32"					
Solids	%Vol					
Oil/Water	%Vol					
Sand	%Vol					
MBT	lb/bbl			SOLIDS EQUIP	Size	Hr
pH				Thule VSM 100 S	84/84/84/84	0
Alkal Mud (Pm)				Thule VSM 100 S	84/84/84/84	0
Pf/Mf				Thule VSM 100 S	84/84/84/84	0
Chlorides	mg/l			D-Sander		0
Hardness Ca	mg/l			D-Silter		0
				Degasser		0
KCL % by wt	%					
LSRV 1	cP					
LSRV 2	cP					
LSRV 3	cP					

MUD PROPERTY SPECS		
Weight		1.04
Viscosity		>100
Filtrate		n/c

REMARKS AND TREATMENT	REMARKS
Building new mud in Active pits (1/2 volume 2xConcentration) waiting for K.C.L. on next supply boat. Plan to mix K.C.L. and dilute 50/50	Cement 13 3/8" casing. Lay out handling tools. Rig and run subsea tree. Rig and run BOPs.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG (bbl)	SOLIDS ANALYSIS (%/lb/bbl)		MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service		Oil Added	0	NaCl	/	np/na Values
Drilling		Water Added	450	KCl	/	kp/ka (lb*s^n/100ft²)
Tripping		Mud Received	0	Low Gravity	/	Bit Loss (psi / %)
BOP NU		Dumped	0	Bentonite	/	Bit HHP (hhp / HSI)
B.O.P. Testing		Shakers	0	Drill Solids	/	Bit Jet Vel (ft/s)
Cementing		Evaporation	0	Weight Material	NA/ NA	Ann. Vel DP (ft/min)
Condition Hole		Centrifuge	0	Chemical Conc	- /	Ann. Vel DC (ft/min)
Condition Mud		Formation	0	Inert/React		Crit Vel DP (ft/min)
Coring		Left in Hole	0	Average SG		Crit Vel DC (ft/min)
Dev. Survey		Sweeps	0	Carb/BiCarb (m mole/L)	/	

M-I ENGR / PHONE		RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Graeme Garrick	08 9325 4822			\$ 19,856.44	\$ 28,228.53
Dave Dixon	08 9325 4822				



WATER-BASED MUD REPORT No. 4

Date	23/06/2002	Depth/TVD	401 m / 399 m
Spud Date	20/06/2002	Mud Type	PHPA/KCl/Glycol
Water Depth	53	Activity	Drilling

Operator : OMV Australia Report For : G. Howard & J. Kendrick Well Name : Patricia 2 Contractor : Diamond Offshore Report For : P.Johns	Field/Area : VIC / L21 Description : Development Location : Bass Strait Well No. :
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DRILLING ASSEMBLY	CASING	MUD VOLUME (bbl)	CIRCULATION DATA
Bit Size 12.25 in MHT 13 GC Reed	Surface	Hole	Pump Make NATIONAL 12P-16
Nozzles 3x15 /24 / 1/32"	30in @111m (111TVD)	242.4	Pump Size 6 X 12.in
Drill Pipe Size Length	Intermediate	Active Pits	Pump Cap 4.274 gal/stk
5 in 313 m	13.375in @326m (318TVD)	514.6	Pump stk/min 62@97%
Drill Pipe Size Length	Intermediate	Total Circulating Vol	Flow Rate 855 gal/min
5 in 64 m	9.625in @873m (700TVD)	757	Bottoms Up 10.9 min 2177 stk
Drill Collar Size Length	Production or Liner	In Storage	Total Circ Time 37.2 min 7437 stk
8.25 in 24 m		710	Circulating Pressure 1400 psi

MUD PROPERTIES			PRODUCTS USED LAST 24 HRS		
Sample From	Pit # 4@22:30		Products	Size	Amt
Flow Line Temp °C	23		Duotec	25 KG BG	16
Depth/TVD m	401/399		Glydri LC	208 KG DM	8
Mud Weight sp.gr.	1.06@23°C		OS-1	25 KG BG	2
Funnel Viscosity s/qt	55		Polyplus Dry	25 KG BG	6
Rheology Temp °C	49		Polypac UL	25 KG BG	8
R600/R300	40/30		KCL-Geel	1 TN BG	4
R200/R100	24/19		Sodium Bicarbonate	25 KG BG	1
R6/R3	9/7				
PV cP	10				
YP lb/100ft²	20				
10s/10m/30m Gel lb/100ft²	8/10/10				
API Fluid Loss cc/30 min	5.9				
HTHP FL Temp cc/30 min					
Cake API/HTHP 1/32"	1/				
Solids %Vol	2.5				
Oil/Water %Vol	0/97.5				
Sand %Vol					
MBT lb/bbl	1		SOLIDS EQUIP		
pH	9.0		Size		Hr
Alkal Mud (Pm)	0.3		Thule VSM 100 S	52/52/52/52	8
Pf/Mf	0.2/		Thule VSM 100 S	52/52/52/52	8
Chlorides mg/l	42000		Thule VSM 100 S	84/84/84/84	8
Hardness Ca mg/l	1200		D-Sander		0
			D-Silter		0
			Degasser		0
KCL % by wt	5.5				
LSRV 1 cP	1		MUD PROPERTY SPECS		
LSRV 2 cP	3		Weight	1.08-1.10	
LSRV 3 cP	40		Viscosity	40 - 60	
			Filtrate	<8 ml	

REMARKS AND TREATMENT

Received 120 bbls old Brine from boat, Blended this with premixed mud volume and additional water for dilution. Building reserve Premix mud for additional volume. Displace hole to PHPA/KCL mud.

REMARKS

The riser and BOPs were run and tested. Made up liner hanger tool and commenced making up BHA. Repairing BOP control panel. Drill out shoe Displace hole to mud, run leak off test to 1.73 SG. Drill ahead with directional control to raise angle.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG (bbl)	SOLIDS ANALYSIS (%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS
Rig Up/Service	8	Oil Added 0	NaCl .8/ 9.8	np/na Values 0.415/0.285
Drilling	10	Water Added 846	KCl 1.9/ 17.7	kp/ka (lb*s^n/100ft²) 2.405/4.694
Tripping	6	Mud Received 120	Low Gravity .7/ 6.1	Bit Loss (psi / %) 647 / 46.2
BOP NU		Dumped 0	Bentonite .1/ .9	Bit HHP (hhp / HSI) 323 / 2.7
B.O.P. Testing		Shakers 12	Drill Solids .1/ 1.3	Bit Jet Vel (ft/s) 87
Cementing		Evaporation 0	Weight Material NA/ NA	Ann. Vel DP (ft/min) 158.15
Condition Hole		Centrifuge 0	Chemical Conc - / 4.	Ann. Vel DC (ft/min) 234.3
Condition Mud		Formation 0	Inert/React 1.1242	Crit Vel DP (ft/min) 303
Coring		Left in Hole 0	Average SG 2.6	Crit Vel DC (ft/min) 333
Dev. Survey		Sweeps 0	Carb/BiCarb (m mole/L) 4./ 20.	ECD@.401 (sp.gr.) 1.08

M-I ENGR / PHONE	08 9325 4822	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Graeme Garrick	08 9325 4822			\$ 10,394.47	\$ 38,623.00
Dave Dixon	08 9325 4822				



WATER-BASED MUD REPORT No. 5

Date	24/06/2002	Depth/TVD	710 m / 643 m
Spud Date	20/06/2002	Mud Type	PHPA/KCl/Glycol
Water Depth	53	Activity	Drilling

Operator : OMV Australia Report For : G. Howard & J. Kendrick Well Name : Patricia 2 Contractor : Diamond Offshore Report For : P.Johns	Field/Area : VIC / L21 Description : Development Location : Bass Strait Well No. :
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DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA	
Bit Size	12.25 in MHT 13 GC Reed	Surface	Hole	Pump Make	NATIONAL 12P-16
Nozzles	3x15 /24 / 1/32"	30in @111m (111TVD)	400.3	Pump Size	6 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	4.274 gal/stk
5 in	622 m	13.375in @326m (318TVD)	656.7	Pump stk/min	70@97%
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	850 gal/min
5 in	64 m	9.625in @873m (700TVD)	1057	Bottoms Up	17.9 min 3554 stk
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time	52.2 min 10393 stk
8.25 in	24 m		394	Circulating Pressure	2000 psi

MUD PROPERTIES				PRODUCTS USED LAST 24 HRS		
Sample From		Pit # 4@22:30	Pit 4@08:00	Products	Size	Amt
Flow Line Temp	°C	46	30	Duotec	25 KG BG	6
Depth/TVD	m	710/643	530/521	Glydriol LC	208 KG DM	14
Mud Weight	sp.gr.	1.08@35°C	1.04@30°C	Polyplus Dry	25 KG BG	6
Funnel Viscosity	s/qt	54	50			
Rheology Temp	°C	49	49			
R600/R300		53/41	36/27			
R200/R100		35/27	23/18			
R6/R3		12/10	9/7			
PV	cP	12	9			
YP	lb/100ft ²	29	18			
10s/10m/30m Gel	lb/100ft ²	11/14/15	7/11/13			
API Fluid Loss	cc/30 min	5.4	5.6			
HTHP FL Temp	cc/30 min					
Cake API/HTHP	1/32"	1/	1/			
Solids	%Vol	5	5			
Oil/Water	%Vol	3/92	3/92			
Sand	%Vol	tr	tr	SOLIDS EQUIP	Size	Hr
MBT	lb/bbl	2.5	1.25	Thule VSM 100 S	120/120/120/120	24
pH		8.7	8.7	Thule VSM 100 S	120/120/120/120	24
Alkal Mud (Pm)		0.1	0.1	Thule VSM 100 S	84/84/84/84	24
Pf/Mf		0.15/0.6	0.1/0.6	Thule VSM 100 S	84/84/84/84	0
Chlorides	mg/l	35000	41000	D-Sander		0
Hardness Ca	mg/l	1180	1200	D-Silter		0
				Degasser		0
KCL % by wt	%	5	5.5			
LSRV 1	cP	0.8	0.8			
LSRV 2	cP	3	3			
LSRV 3	cP	20	20			
				MUD PROPERTY SPECS		
				Weight	1.04-1.10	
				Viscosity	40 - 60	
				Filtrate	<8 ml	

REMARKS AND TREATMENT	REMARKS
Add premixes to active system to maintain system . Treat system with Glydriol, Polyplus and Duotec.	Changed to finer shaker screens. Drill 12 1/4" hole with Directional Surveys.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG (bbl)	SOLIDS ANALYSIS (%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service		Oil Added 0	NaCl .5/ 5.9	np/na Values 0.370/0.283	
Drilling	24	Water Added 0	KCl 1.8/ 16.8	kp/ka (lb*s^n/100ft ²) 4.343/6.722	
Tripping		Mud Received 0	Low Gravity 1.6/ 14.9	Bit Loss (psi / %) 651 / 32.6	
BOP NU		Dumped 0	Bentonite .2/ 1.4	Bit HHP (hhp / HSI) 323 / 2.7	
B.O.P. Testing		Shakers 36	Drill Solids 1./ 9.5	Bit Jet Vel (ft/s) 87	
Cementing		Evaporation 0	Weight Material NA/ NA	Ann. Vel DP (ft/min) 148.68	
Condition Hole		Centrifuge 0	Chemical Conc - / 4.	Ann. Vel DC (ft/min) 214.64	
Condition Mud		Formation 0	Inert/React 3.3732	Crit Vel DP (ft/min) 366	
Coring		Left in Hole 0	Average SG 2.6	Crit Vel DC (ft/min) 400	
Dev. Survey		Sweeps 0	Carb/BiCarb (m mole/L) 3./ 29.9	ECD.@ 710 (sp.gr.) 1.11	
M-I ENGR / PHONE		RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Graeme Garrick 08 9325 4822				\$ 10,285.28	\$ 48,908.28
Dave Dixon 08 9325 4822					

**WATER-BASED MUD REPORT No. 6**

Date	25/06/2002	Depth/TVD	884 m / 702 m
Spud Date	20/06/2002	Mud Type	PHPA/KCl/Glycol
Water Depth	53	Activity	Tripping

Operator : OMV Australia
Report For : G. Howard & G. Othen
Well Name : Patricia 2
Contractor : Diamond Offshore
Report For : P. Johns

Field/Area : VIC / L21
Description : Development
Location : Bass Strait
Well No. :

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size	12.25 in MHT 13 GC Reed	Surface	Hole	Pump Make	NATIONAL 12P-16	NATIONAL 12P-16
Nozzles	3x15 / 24 / 1/32"	30in @111m (111TVD)	512.8	Pump Size	6 X 12.in	6 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	4.274 gal/stk	4.274 gal/stk
5 in	m	13.375in @326m (318TVD)	541.2	Pump stk/min	62@97%	75@97%
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	850 gal/min	
5 in	m	9.625in @873m (700TVD)	541.2	Bottoms Up	min 0 stk	
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time	26.7 min	5322 stk
8.25 in	m		190	Circulating Pressure	2000 psi	

MUD PROPERTIES				PRODUCTS USED LAST 24 HRS		
Sample From		Pit # 4@21:00	Pit@07:30	Products	Size	Amt
Flow Line Temp	°C		49	Barite Bulk	100 LB BG	50
Depth/TVD	m	884/702	854/692	KCL-Geel	1 TN BG	2
Mud Weight	sp.gr.	1.12@49°C	1.10@49°C			
Funnel Viscosity	s/qt	55	57			
Rheology Temp	°C	49	49			
R600/R300		58/44	67/52			
R200/R100		37/28	45/35			
R6/R3		16/14	15/13			
PV	cP	14	15			
YP	lb/100ft ²	30	37			
10s/10m/30m Gel	lb/100ft ²	13/18/22	14/21/24			
API Fluid Loss	cc/30 min	6.4	6.8			
HTHP FL Temp	cc/30 min					
Cake API/HTHP	1/32"	1/	1/			
Solids	%Vol	7	6			
Oil/Water	%Vol	3/90	3/91			
Sand	%Vol	tr	1	SOLIDS EQUIP	Size	Hr
MBT	lb/bbl	5	5	Thule VSM 100 S	120/120/120/120	24
pH		8.7	8.7	Thule VSM 100 S	120/120/120/120	24
Alkal Mud (Pm)		0	0.0	Thule VSM 100 S	84/84/84/84	24
Pf/Mf		0.1/0.7	0.05/0.8	Thule VSM 100 S	84/84/84/84	0
Chlorides	mg/l	45000	45000	D-Sander		0
Hardness Ca	mg/l	1200	1200	D-Silter		0
				Degasser		0
KCL % by wt	%	5.5	5.5			
LSRV 1	cP	0.8	0.8			
LSRV 2	cP	3	3			
LSRV 3	cP	10	10			
				MUD PROPERTY SPECS		
				Weight	1.04-1.10	
				Viscosity	40 - 60	
				Filtrate	<8 ml	

REMARKS AND TREATMENT	REMARKS
The mud properties were maintained by the addition of premix and KCL. Minor losses to the formation occurred.	Directional drilling proceeded to 884 m where the Gurnard formation was encountered at an angle of 90 deg. The hole was circulated and the mud weight raised to 1.12 SG. The max gas was approx 12%. A wiper trip was made to the casing shoe. R.I.H. Circulate hole clean pump slug POOH Rig up to run 9 5/8" Casing

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS (%/lb/bbl)		MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service	2	Oil Added	0	NaCl	.8/ 9.9	np/na	Values
Drilling	11	Water Added	0	KCl	1.9/ 17.9	kp/ka	(lb*s^n/100ft²)
Tripping	7	Mud Received	0	Low Gravity	3.5/ 32.1	Bit Loss	(psi / %)
Running Casing	3	Dumped	104	Bentonite	.2/ 2.1	Bit HHP	(hhp / HSI)
B.O.P. Testing		Shakers	112	Drill Solids	2.9/ 26.	Bit Jet Vel	(ft/s)
Cementing		Evaporation	0	Weight Material	NA/ NA	Ann. Vel DP	(ft/min)
Condition Hole	1	Centrifuge	0	Chemical Conc	- / 4.	Ann. Vel DC	(ft/min)
Condition Mud		Formation	0	Inert/React	4.6291	Crit Vel DP	(ft/min)
Coring		Left in Hole	0	Average SG	2.6	Crit Vel DC	(ft/min)
Dev. Survey		Sweeps	0	Carb/BiCarb (m mole/L)	2./ 19.9		

M-I ENGR / PHONE		RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Graeme Garrick	08 9325 4822			\$ 863.90	\$ 49,772.18
Dave Dixon	08 9325 4822				



WATER-BASED MUD REPORT No. 7

Date	26/06/2002	Depth/TVD	884 m / 702 m
Spud Date	20/06/2002	Mud Type	Flo-Pro
Water Depth	53	Activity	Drill Out

Operator : OMV Australia Report For : G. Howard & G. Othen Well Name : Patricia 2 Contractor : Diamond Offshore Report For : P.Johns	Field/Area : VIC / L21 Description : Development Location : Bass Strait Well No. :
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DRILLING ASSEMBLY	CASING	MUD VOLUME (bbl)	CIRCULATION DATA
Bit Size 8.5 in EHP41 Reed	Surface	Hole	Pump Make NATIONAL 12P-16
Nozzles 3x14 / 1/32"	30in @111m (111TVD)	256.5	Pump Size 6 X 12.in
Drill Pipe Size Length	Intermediate	Active Pits	Pump Cap gal/stk
5 in 516 m	13.375in @326m (318TVD)	797.5	Pump stk/min
Drill Pipe Size Length	Intermediate	Total Circulating Vol	Flow Rate gal/min
5 in 341 m	9.625in @873m (700TVD)	1054	Bottoms Up
Drill Collar Size Length	Production or Liner	In Storage	Total Circ Time
8.25 in 28 m	in @m (TVD)	1067	Circulating Pressure

MUD PROPERTIES				PRODUCTS USED LAST 24 HRS			
Sample From	Pit # 1@19:00			Products	Size	Amt	
Flow Line Temp °C	884/702			Dual-Flo	50 LB BG	53	
Depth/TVD m				Flo-Vis Plus	25 KG BG	45	
Mud Weight sp.gr.	1.07			Glute-25	25 LT DM	4	
Funnel Viscosity s/qt	120			OS-1	25 KG BG	8	
Rheology Temp °C	49			KCL-Geel	1 TN BG	6	
R600/R300	55/46			Potassium Hydroxide	25 KG DM	7	
R200/R100	42/37			Omyacarb 1	25 KG BG	28	
R6/R3	19/17			Omyacarb 8	25 KG BG	217	
PV cP	9			Omyacarb 10	25 KG BG	21	
YP lb/100ft²	37			SALT (BIG BAG)	1 MT BG	3	
10s/10m/30m Gel lb/100ft²	17/20/23						
API Fluid Loss cc/30 min	5.2						
HTHP FL Temp cc/30 min							
Cake API/HTHP 1/32"	1/						
Solids %Vol	4						
Oil/Water %Vol	0/96						
Sand %Vol				SOLIDS EQUIP	Size	Hr	
MBT lb/bbl	1			Thule VSM 100 S	120/120/120/120	0	
pH	8.9			Thule VSM 100 S	120/120/120/120	0	
Alkal Mud (Pm)	0.8			Thule VSM 100 S	84/84/84/84	0	
Pf/Mf	0.2/0.5			Thule VSM 100 S	84/84/84/84	0	
Chlorides mg/l	32000			D-Sander		0	
Hardness Ca mg/l	350			D-Silter		0	
				Degasser		0	
KCL % by wt	3						
LSRV 1 cP	45000						
LSRV 2 cP	54288						
LSRV 3 cP	54788						
				MUD PROPERTY SPECS			
				Weight	1.04-1.10		
				Viscosity	40 - 60		
				Filtrate	<8 ml		

REMARKS AND TREATMENT Commence making up FloPro mud system	REMARKS A string of 9.5/8" casing was run and cemented at 872 m. Test seal assembly and BOPs. Make up Drilling assembly and R.I.H.
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TIME DISTR	Last 24 Hrs	MUD VOL ACCTG (bbl)	SOLIDS ANALYSIS (%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS
Rig Up/Service		Oil Added 0	NaCl .8/ 8.9	np/na Values 0.258/0.222
Drilling		Water Added 1000	KCl 1.3/ 11.9	kp/ka (lb*s^n/100ft²) 9.833/12.633
Tripping	6	Mud Received 0	Low Gravity .2/ 1.6	Bit Loss (psi / %) / 1
Direction Work	2	Dumped 190	Bentonite .2/ 1.7	Bit HHP (hhp / HSI) / 1
B.O.P. Testing	4	Shakers 0	Drill Solids -.7/ -.6.1	Bit Jet Vel (ft/s)
Running Casing	8	Evaporation 0	Weight Material NA/ NA	Ann. Vel DP (ft/min)
Cementing	4	Centrifuge 0	Chemical Conc - / 6.	Ann. Vel DC (ft/min)
Condition Mud		Formation 0	Inert/React -5.4297	Crit Vel DP (ft/min) 645
Coring		Left in Hole 0	Average SG 2.6	Crit Vel DC (ft/min) 645
Dev. Survey		Sweeps 0	Carb/BiCarb (m mole/L) 4./ 25.2	ECD@ 884 (sp.gr.) 1.07

M-I ENGR / PHONE	08 9325 4822	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Graeme Garrick	08 9325 4822			\$ 28,639.63	\$ 78,411.81
Dave Dixon	08 9325 4822				



WATER-BASED MUD REPORT No. 8

Date	27/06/2002	Depth/TVD	1379 m / 701 m
Spud Date	20/06/2002	Mud Type	Flo-Pro
Water Depth	53	Activity	Drilling

Operator : OMV Australia Report For : G. Howard & G. Othen Well Name : Patricia 2 Contractor : Diamond Offshore Report For : P.Johns	Field/Area : VIC / L21 Description : Development Location : Bass Strait Well No. :
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DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA	
Bit Size	8.5 in EHP41 Reed	Surface	Hole	Pump Make	NATIONAL 12P-16
Nozzles	3x14 / 1/32"	30in @111m (111TVD)	367.4	Pump Size	6 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	4.274 gal/stk
5 in	1011 m	13.375in @326m (318TVD)	443.6	Pump stk/min	69@97%
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	586 gal/min
5 in	341 m	9.625in @873m (700TVD)	811	Bottoms Up	21.4 min 2927 stk
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time	58.1 min 7963 stk
6.75 in	28 m	in @m (TVD)	602	Circulating Pressure	2000 psi

MUD PROPERTIES				PRODUCTS USED LAST 24 HRS		
Sample From		Pit # 4@21:30	Pit@10:00	Products	Size	Amt
Flow Line Temp	°C	45	38	Dual-Flo	50 LB BG	13
Depth/TVD	m	1379/701	1014/700	Flo-Vis Plus	25 KG BG	11
Mud Weight	sp.gr.	1.12@45°C	1.09@38°C	Glute-25	25 LT DM	1
Funnel Viscosity	s/qt	60	69	OS-1	25 KG BG	2
Rheology Temp	°C	49	49	KCL-Geel	1 TN BG	8
R600/R300		54/43	56/45	Potassium Hydroxide	25 KG DM	2
R200/R100		39/31	40/32	SALT (BIG BAG)	1 MT BG	8
R6/R3		16/14	17/15			
PV	cP	11	11			
YP	lb/100ft ²	32	34			
10s/10m/30m Gel	lb/100ft ²	15/18/23	18/22/24			
API Fluid Loss	cc/30 min	4.8	5.2			
HTHP FL Temp	cc/30 min					
Cake API/HTHP	1/32"	1/	1/			
Solids	%Vol	8	6			
Oil/Water	%Vol	/92	/94			
Sand	%Vol	0.25	.25	SOLIDS EQUIP	Size	Hr
MBT	lb/bbl	2	1	Thule VSM 100 S	120/120/120/120	24
pH		9.5	9.5	Thule VSM 100 S	120/120/120/120	24
Alkal Mud (Pm)		0.2	0.6	Thule VSM 100 S	84/84/84/84	6
Pf/Mf		0.1/0.6	0.1/0.5	Thule VSM 100 S	84/84/84/84	0
Chlorides	mg/l	72000	72000	D-Sander		0
Hardness Ca	mg/l	400	320	D-Silter	20 x 4"	9
				Degasser		0
KCL % by wt	%	3	3			
LSRV 1	cP	59187	64000			
LSRV 2	cP	64086	69985			
LSRV 3	cP	62687	69485			
				MUD PROPERTY SPECS		
				Weight	1.04-1.10	
				Viscosity	40 - 60	
				Filtrate	<8 ml	

REMARKS AND TREATMENT	REMARKS
Mixed Flo-Pro SF clean up pill. Mixed KCL Brine for pills	RIH to tag cement at 848 m. Drill out cement and shoe with the mud from previous section. Displace to new mud while drilling shoe. Drill 3m and take FIT for 1.4 SG EMW. Drill ahead at 60 to 30 m/hr.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG (bbl)	SOLIDS ANALYSIS (%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service		Oil Added	0	NaCl	2.8/ 31.1
Drilling	24	Water Added	530	KCl	1.2/ 11.4
Tripping		Mud Received	0	Low Gravity	1.9/ 17.6
Direction Work		Dumped	1253	Bentonite	.1/ .8
B.O.P. Testing		Shakers	0	Drill Solids	1.2/ 10.8
Running Casing		Evaporation	0	Weight Material	NA/ NA
Cementing		Centrifuge	0	Chemical Conc	- / 6.
Condition Mud		Formation	0	Inert/React	4.8007
Coring		Left in Hole	0	Average SG	2.6
Dev. Survey		Sweeps	0	Carb/BiCarb (m mole/L)	2./ 3.1
				ECD.@ 1379 (sp.gr.)	1.31
M-I ENGR / PHONE		RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Graeme Garrick	08 9325 4822			\$ 10,073.44	\$ 88,485.25
Dave Dixon	08 9325 4822				



WATER-BASED MUD REPORT No. 9

Date	28/06/2002	Depth/TVD	1385 m / 701 m
Spud Date	20/06/2002	Mud Type	Brine
Water Depth	53	Activity	Completion program

Operator : OMV Australia **Field/Area :** VIC / L21
Report For : G. Howard & G. Othen **Description :** Development
Well Name : Patricia 2 **Location :** Bass Strait
Contractor : Diamond Offshore **Well No. :**
Report For : P.Johns

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size 8.5 in		Surface	Hole	Pump Make	NATIONAL 12P-16	NATIONAL 12P-16
Nozzles 1/32"		30in @111m (111TVD)	405.3	Pump Size	6 X 12.in	6 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	gal/stk	gal/stk
5 in	m	13.375in @326m (318TVD)	-37.3	Pump stk/min		
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate		
5 in	341 m	9.625in @873m (700TVD)	-37.3	Bottoms Up		
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time		
6.75 in	28 m	in @m (TVD)	312	Circulating Pressure		

MUD PROPERTIES				PRODUCTS USED LAST 24 HRS		
Sample From		Pit@15:00		Products	Size	Amt
Flow Line Temp	°C			Duotec	25 KG BG	4
Depth/TVD	m	1385/701		Defoam A	25 LT DM	3
Mud Weight	sp.gr.	1.08		Safe Surf WN	200 KG DM	4
Funnel Viscosity	s/qt			SALT (BIG BAG)	1 MT BG	6
Rheology Temp	°C					
R600/R300						
R200/R100						
R6/R3						
PV	cP					
YP	lb/100ft ²					
10s/10m/30m Gel	lb/100ft ²					
API Fluid Loss	cc/30 min					
HTHP FL Temp	cc/30 min					
Cake API/HTHP	1/32"					
Solids	%Vol					
Oil/Water	%Vol					
Sand	%Vol					
MBT	lb/bbl			SOLIDS EQUIP	Size	Hr
pH				Thule VSM 100 S	120/120/120/120	5
Alkal Mud (Pm)				Thule VSM 100 S	120/120/120/120	5
Pf/Mf				Thule VSM 100 S	84/84/84/84	0
Chlorides	mg/l			D-Sander		0
Hardness Ca	mg/l			D-Silter	20 x 4"	0
				Degasser		0
KCL % by wt	%					
LSRV 1	cP					
LSRV 2	cP					
LSRV 3	cP					
				MUD PROPERTY SPECS		
				Weight	1.04-1.10	
				Viscosity	40 - 60	
				Filtrate	<8 ml	

REMARKS AND TREATMENT	REMARKS
The solids free FloPro was used to fill the horizontal section. High viscosity pills and a surfactant pill were pumped to clean the casing and the casing was filled with 1.08 SG brine. The mud from the hole and pits was dumped and the pits were cleaned.	The total depth of 1385 m was reached and the well was circulated with clean up pills after a wiper trip. The horizontal section was filled with solids free mud and at the shoe the casing was cleaned out and displaced to 1.08 SG uninhibited brine. POOH and run sand screens.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG (bbl)	SOLIDS ANALYSIS (%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service		Oil Added	NaCl	np/na	Values
Drilling	1	Water Added	KCl	kp/ka	(lb*s^n/100ft ²)
Tripping	12	Mud Received	Low Gravity	Bit Loss	(psi / %)
Condition Hole	3	Dumped	Bentonite	Bit HHP	(hhp / HSI)
B.O.P. Testing		Shakers	Drill Solids	Bit Jet Vel	(ft/s)
Running Casing	6	Evaporation	Weight Material	Ann. Vel DP	(ft/min)
Cementing		Centrifuge	Chemical Conc	Ann. Vel DC	(ft/min)
Condition Mud		Formation	Inert/React	Crit Vel DP	(ft/min)
Coring		Left in Hole	Average SG	Crit Vel DC	(ft/min)
Dev. Survey		Sweeps	Carb/BiCarb (m mole/L)		
M-I ENGR / PHONE		RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Graeme Garrick 08 9325 4822				\$ 6,040.15	\$ 94,525.40



WATER-BASED MUD REPORT No. 10

Date	29/06/2002	Depth/TVD	1385 m / 701 m
Spud Date	20/06/2002	Mud Type	Brine
Water Depth	53	Activity	Well completion

Operator : OMV Australia Report For : G. Howard & G. Othen Well Name : Patricia 2 Contractor : Diamond Offshore Report For : P.Johns	Field/Area : VIC / L21 Description : Development Location : Bass Strait Well No. :
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DRILLING ASSEMBLY		CASING		MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size	8.5 in	Surface		Hole	Pump Make	ATIONAL 12P-16	ATIONAL 12P-16
Nozzles	1/32"	30in @111m (111TVD)		405.3	Pump Size	6 X 12.in	6 X 12.in
Drill Pipe Size	Length	Intermediate		Active Pits	Pump Cap	gal/stk	gal/stk
5 in	m	13.375in @326m (318TVD)		402.7	Pump stk/min		
Drill Pipe Size	Length	Intermediate		Total Circulating Vol	Flow Rate		
5 in	341 m	9.625in @873m (700TVD)		402.7	Bottoms Up		
Drill Collar Size	Length	Production or Liner		In Storage	Total Circ Time		
6.75 in	28 m	in @m (TVD)		300	Circulating Pressure		

MUD PROPERTIES				PRODUCTS USED LAST 24 HRS		
Sample From				Products	Size	Amt
Flow Line Temp	°C			Duotec	25 KG BG	4
Depth/TVD	m	1385/701		Wellzyme A	55 GA DM	4
Mud Weight	sp.gr.	1.08		SALT (BIG BAG)	1 MT BG	13
Funnel Viscosity	s/qt			BRINE	1 BL BL	400
Rheology Temp	°C					
R600/R300						
R200/R100						
R6/R3						
PV	cP					
YP	lb/100ft ²					
10s/10m/30m Gel	lb/100ft ²					
API Fluid Loss	cc/30 min					
HTHP FL Temp	cc/30 min					
Cake API/HTHP	1/32"					
Solids	%Vol					
Oil/Water	%Vol					
Sand	%Vol					
MBT	lb/bbl					
pH						
Alkal Mud (Pm)						
Pf/Mf						
Chlorides	mg/l					
Hardness Ca	mg/l					
KCL % by wt	%					
LSRV 1	cP					
LSRV 2	cP					
LSRV 3	cP					
				MUD PROPERTY SPECS		
				Weight	1.04-1.10	
				Viscosity	40 - 60	
				Filtrate	<8 ml	

REMARKS AND TREATMENT	REMARKS
The brine for the cleanup procedures was mixed, The cleanup procedure included a high viscosity brine followed by brine to displace the FloPro and then a Wellzyme brine was used to fill the 8,1/2" interval over the sand screens.	The completion program was continued with the running of the sand screens and wash pipe. The screens were set and the well clean up prior to tripping the running string. 400 blls of brine was filtered to approx 35 NTUs for future use as inhibited brine.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG (bbl)	SOLIDS ANALYSIS (%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS
Rig Up/Service		Oil Added	0	np/na Values
Drilling		Water Added	720	kp/ka (lb*s^n/100ft ²)
Tripping		Mud Received	0	Bit Loss (psi / %)
Condition Hole		Centrifuge	0	Bit HHP (hhp / HSI)
B.O.P. Testing		Formation	0	Bit Jet Vel (ft/s)
Running Casing		Left in Hole	547	Ann. Vel DP (ft/min)
Cementing		Sweeps	0	Ann. Vel DC (ft/min)
Condition Mud		Desilter	0	Crit Vel DP (ft/min)
Coring		Dumped	212	Crit Vel DC (ft/min)
Completion	24	Shakers	0	
		Carb/BiCarb (m mole/L)	/	

M-I ENGR / PHONE		RIG PHONE		WAREHOUSE PHONE		DAILY COST		CUMULATIVE COST	
Graeme Garrick 08 9325 4822						\$ 10,730.44		\$ 105,255.84	



WATER-BASED MUD REPORT No. 11

Date	30/06/2002	Depth/TVD	1385 m / 701 m
Spud Date	20/06/2002	Mud Type	Brine
Water Depth	53	Activity	Well Completion

Operator : OMV Australia	Field/Area : VIC / L21
Report For : G. Howard & G. Othen	Description : Development
Well Name : Patricia 2	Location : Bass Strait
Contractor : Diamond Offshore	Well No. :
Report For : P. Johns	

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size 8.5 in		Surface	Hole	Pump Make	NATIONAL 12P-16	NATIONAL 12P-16
Nozzles 1/32"		30in @111m (111TVD)	405.3	Pump Size	6 X 12.in	6 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	gal/stk	gal/stk
5 in	m	13.375in @326m (318TVD)	402.7	Pump stk/min		
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	gal/min	
5 in	m	9.625in @873m (700TVD)	402.7	Bottoms Up		
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time		
6.75 in	m	in @m (TVD)	300	Circulating Pressure		

MUD PROPERTIES					PRODUCTS USED LAST 24 HRS		
Sample From					Products	Size	Amt
Flow Line Temp	°C				Caustic Soda	25 KG DM	2
Depth/TVD	m	1385/701			OS-1	25 KG BG	2
Mud Weight	sp.gr.	1.08			KCL-Geel	1 TN BG	2
Funnel Viscosity	s/qt				Conqor 303A	55 GA DM	3
Rheology Temp	°C						
R600/R300							
R200/R100							
R6/R3							
PV	cP						
YP	lb/100ft ²						
10s/10m/30m Gel	lb/100ft ²						
API Fluid Loss	cc/30 min						
HTHP FL Temp	cc/30 min						
Cake API/HTHP	1/32"						
Solids	%Vol						
Oil/Water	%Vol						
Sand	%Vol						
MBT	lb/bbl				SOLIDS EQUIP	Size	Hr
pH					Thule VSM 100 S	120/120/120/120	0
Alkal Mud (Pm)					Thule VSM 100 S	120/120/120/120	0
Pf/Mf					Thule VSM 100 S	84/84/84/84	0
Chlorides	mg/l				D-Sander		0
Hardness Ca	mg/l				D-Silter	20 x 4"	0
					Degasser		0
KCL % by wt	%						
LSRV 1	cP						
LSRV 2	cP						
LSRV 3	cP						
MUD PROPERTY SPECS							
					Weight	1.04-1.10	
					Viscosity	40 - 60	
					Filtrate	<8 ml	

REMARKS AND TREATMENT	REMARKS
Mixed 100 bbls of brine which was filtered prior to adding the inhibition chemicals. The NTUs of the inhibited filtered brine was 22. The old brine was filtered from 450 to 270 NTUs and will be used on next well as KCl base.	Continued with the well completion program. Filled riser,choke and kill lines with filtered brine.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG (bbl)	SOLIDS ANALYSIS (%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS
Rig Up/Service		Oil Added	0	NaCl
Drilling		Water Added	100	KCl
Tripping		Mud Received	0	Low Gravity
Condition Hole		Centrifuge	0	Bentonite
B.O.P. Testing		Formation	0	Drill Solids
Running Casing		Left in Hole	110	Weight Material
Cementing		Sweeps	0	Chemical Conc
Condition Mud		Desilter	0	Inert/React
Coring		Dumped	0	Average SG
Completion	24	Shakers	0	Carb/BiCarb (m mole/L)

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Graeme Garrick 08 9325 4822			\$ 1,225.58	\$ 106,481.42



WATER-BASED MUD REPORT No. 12

Date	1/07/2002	Depth/TVD	1385 m / 701 m
Spud Date	20/06/2002	Mud Type	Brine
Water Depth	53	Activity	Well Completion

Operator : OMV Australia
Report For : G. Howard & G. Othen
Well Name : Patricia 2
Contractor : Diamond Offshore
Report For : P.Johns

Field/Area : VIC / L21
Description : Development
Location : Bass Strait
Well No. :

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA	
Bit Size 8.5 in		Surface	Hole	Pump Make	NATIONAL 12P-16
Nozzles 1/32"		30in @111m (111TVD)	405.3	Pump Size	6 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	gal/stk
5 in	m	13.375in @326m (318TVD)	218.7	Pump stk/min	gal/stk
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	gal/min
5 in	m	9.625in @873m (700TVD)	218.7	Bottoms Up	
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time	
6.75 in	m	in @m (TVD)	200	Circulating Pressure	

MUD PROPERTIES				PRODUCTS USED LAST 24 HRS		
Sample From				Products	Size	Amt
Flow Line Temp °C				KCL-Geel	1 TN BG	2
Depth/TVD m	1385/701					
Mud Weight sp.gr.	1.08					
Funnel Viscosity s/qt						
Rheology Temp °C						
R600/R300						
R200/R100						
R6/R3						
PV cP						
YP lb/100ft ²						
10s/10m/30m Gel lb/100ft ²						
API Fluid Loss cc/30 min						
HTHP FL Temp cc/30 min						
Cake API/HTHP 1/32"						
Solids %Vol						
Oil/Water %Vol						
Sand %Vol						
MBT lb/bbl				SOLIDS EQUIP	Size	Hr
pH				Thule VSM 100 S	120/120/120/120	0
Alkal Mud (Pm)				Thule VSM 100 S	120/120/120/120	0
Pf/Mf				Thule VSM 100 S	84/84/84/84	0
Chlorides mg/l				D-Sander		0
Hardness Ca mg/l				D-Silter	20 x 4"	0
				Degasser		0
KCL % by wt						
LSRV 1 cP						
LSRV 2 cP						
LSRV 3 cP						
				MUD PROPERTY SPECS		
				Weight	1.04-1.10	
				Viscosity	40 - 60	
				Filtrate	<8 ml	

REMARKS AND TREATMENT	REMARKS
Mixed extra 100 bbls of KCl brine.	Displaced well to filtered inhibited brine. Continue well completion. Pulled out tubing to insert pup joint. Starte losing brine to formation at up to 40 bbls/hr.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG (bbl)	SOLIDS ANALYSIS (%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS
Rig Up/Service		Oil Added 0	NaCl -7/	np/na Values
Drilling		Water Added 110	KCl /	kp/ka (lb*s^n/100ft ²)
Tripping		Mud Received 0	Low Gravity /	Bit Loss (psi / %)
Condition Hole		Centrifuge 0	Bentonite /	Bit HHP (hhp / HSI)
B.O.P. Testing		Formation 100	Drill Solids /	Bit Jet Vel (ft/s)
Running Casing		Left in Hole 300	Weight Material NA/NA	Ann. Vel DP (ft/min)
Cementing		Sweeps 0	Chemical Conc - /	Ann. Vel DC (ft/min)
Condition Mud		Desilter 0	Inert/React - /	Crit Vel DP (ft/min)
Coring		Dumped 0	Average SG	Crit Vel DC (ft/min)
Completion	24	Shakers 0	Carb/BiCarb (m mole/L) /	

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Graeme Garrick 08 9325 4822			\$ 548.90	\$ 107,030.32



WATER-BASED MUD REPORT No. 13

Date	2/07/2002	Depth/TVD	1385 m / 701 m
Spud Date	20/06/2002	Mud Type	Brine
Water Depth	53	Activity	Well completion

Operator : OMV Australia **Field/Area :** VIC / L21
Report For : R.King & G. Othen **Description :** Development
Well Name : Patricia 2 **Location :** Bass Strait
Contractor : Diamond Offshore **Well No. :**
Report For : P.Johns

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size 8.5 in		Surface	Hole	Pump Make	NATIONAL 12P-16	NATIONAL 12P-16
Nozzles 1/32"		30in @111m (111TVD)	405.3	Pump Size	6 X 12.in	6 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	gal/stk	gal/stk
5 in	m	13.375in @326m (318TVD)	-3	Pump stk/min		
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	gal/min	
5 in	m	9.625in @873m (700TVD)	-3	Bottoms Up		
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time		
6.75 in	m	in @m (TVD)	186	Circulating Pressure		

MUD PROPERTIES			PRODUCTS USED LAST 24 HRS		
Sample From			Products	Size	Amt
Flow Line Temp	°C		Defoam A	25 LT DM	2
Depth/TVD	m	1385/701	KCL-Geel	1 TN BG	2
Mud Weight	sp.gr.	1.08			
Funnel Viscosity	s/qt				
Rheology Temp	°C				
R600/R300					
R200/R100					
R6/R3					
PV	cP				
YP	lb/100ft²				
10s/10m/30m Gel	lb/100ft²				
API Fluid Loss	cc/30 min				
HTHP FL Temp	cc/30 min				
Cake API/HTHP	1/32"				
Solids	%Vol				
Oil/Water	%Vol				
Sand	%Vol		SOLIDS EQUIP	Size	Hr
MBT	lb/bbl		Thule VSM 100 S	120/120/120/120	0
pH			Thule VSM 100 S	120/120/120/120	0
Alkal Mud (Pm)			Thule VSM 100 S	84/84/84/84	0
Pf/Mf			Thule VSM 100 S	84/84/84/84	0
Chlorides	mg/l		D-Sander		0
Hardness Ca	mg/l		D-Silter	20 x 4"	0
			Degasser		0
KCL % by wt	%				
LSRV 1	cP				
LSRV 2	cP				
LSRV 3	cP				
			MUD PROPERTY SPECS		
			Weight	1.04-1.10	
			Viscosity	40 - 60	
			Filtrate	<8 ml	

REMARKS AND TREATMENT

Mixed up 1.08 SG KCl brine as required to cover the downhole losses of approx 40 bbls/hr. The total losses to the formation over the time was approx 450 bbls.

REMARKS

Continued to run well completion with the addition of extra pup joint. Losses continued until the tubing was restabbed in.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS (%/lb/bbl)		MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service		Oil Added	0	NaCl	-7/	np/na	Values
Drilling		Water Added	220	KCl	/	kp/ka	(lb*s^n/100ft²)
Tripping		Mud Received	0	Low Gravity	/	Bit Loss	(psi / %)
Condition Hole		Centrifuge	0	Bentonite	/	Bit HHP	(hhp / HSI)
B.O.P. Testing		Formation	419	Drill Solids	/	Bit Jet Vel	(ft/s)
Running Casing		Left in Hole	0	Weight Material	NA/NA	Ann. Vel DP	(ft/min)
Cementing		Sweeps	0	Chemical Conc	- /	Ann. Vel DC	(ft/min)
Condition Mud		Desilter	0	Inert/React		Crit Vel DP	(ft/min)
Coring		Dumped	40	Average SG		Crit Vel DC	(ft/min)
Completion	24	Shakers	0	Carb/BitCarb (m mole/L)	/		
M-I ENGR / PHONE		RIG PHONE		WAREHOUSE PHONE		DAILY COST	CUMULATIVE COST
Graeme Garrick		08 9325 4822				\$ 661.24	\$ 107,691.56



WATER-BASED MUD REPORT No. 14

Date	3/07/2002	Depth/TVD	1385 m / 701 m
Spud Date	20/06/2002	Mud Type	Brine
Water Depth	53	Activity	Flowing well

Operator : OMV Australia Report For : R.King & G. Othen Well Name : Patricia 2 Contractor : Diamond Offshore Report For : P.Johns	Field/Area : VIC / L21 Description : Development Location : Bass Strait Well No. :
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DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size 8.5 in		Surface	Hole	Pump Make	NATIONAL 12P-16	NATIONAL 12P-16
Nozzles 1/32"		30in @111m (111TVD)	405.3	Pump Size	6 X 12.in	6 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	gal/stk	gal/stk
5 in	m	13.375in @326m (318TVD)	-.3	Pump stk/min		
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	gal/min	
5 in	m	9.625in @873m (700TVD)	-.3	Bottoms Up		
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time		
6.75 in	m	in @m (TVD)	186	Circulating Pressure		

MUD PROPERTIES				PRODUCTS USED LAST 24 HRS		
Sample From				Products	Size	Amt
Flow Line Temp	°C					
Depth/TVD	m	1385/701				
Mud Weight	sp.gr.	1.08				
Funnel Viscosity	s/qt					
Rheology Temp	°C					
R600/R300						
R200/R100						
R6/R3						
PV	cP					
YP	lb/100ft ²					
10s/10m/30m Gel	lb/100ft ²					
API Fluid Loss	cc/30 min					
HTHP FL Temp	cc/30 min					
Cake API/HTHP	1/32"					
Solids	%Vol					
Oil/Water	%Vol					
Sand	%Vol					
MBT	lb/bbl			SOLIDS EQUIP	Size	Hr
pH				Thule VSM 100 S	120/120/120/120	0
Alkal Mud (Pm)				Thule VSM 100 S	120/120/120/120	0
Pf/Mf				Thule VSM 100 S	84/84/84/84	0
Chlorides	mg/l			D-Sander		0
Hardness Ca	mg/l			D-Silter	20 x 4"	0
				Degasser		0
KCL % by wt	%					
LSRV 1	cP					
LSRV 2	cP					
LSRV 3	cP					
				MUD PROPERTY SPECS		
				Weight	1.08	
				Viscosity		
				Filtrate		

REMARKS AND TREATMENT	REMARKS
Tested appropriate water flow samples to check the amount of brine being produced.	The well was production tested from daylight.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG (bbl)	SOLIDS ANALYSIS (%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service		Oil Added 0	NaCl -7/	np/na Values	
Drilling		Water Added 0	KCl /	kp/ka (lb*s^n/100ft ²)	
Tripping		Mud Received 0	Low Gravity /	Bit Loss (psi / %)	
Condition Hole		Centrifuge 0	Bentonite /	Bit HHP (hhp / HSI)	
B.O.P. Testing		Formation 0	Drill Solids /	Bit Jet Vel (ft/s)	
Running Casing		Left in Hole 0	Weight Material NA/NA	Ann. Vel DP (ft/min)	
Cementing		Sweeps 0	Chemical Conc - /	Ann. Vel DC (ft/min)	
Condition Mud		Desilter 0	Inert/React	Crit Vel DP (ft/min)	
Coring		Dumped 0	Average SG	Crit Vel DC (ft/min)	
Completion	24	Shakers 0	Carb/BiCarb (m mole/L) /		
M-I ENGR / PHONE		RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Graeme Garrick 08 9325 4822				\$ 0.00	\$ 107,691.56



WATER-BASED MUD REPORT No. 15

Date	4/07/2002	Depth/TVD	1385 m / 701 m
Spud Date	20/06/2002	Mud Type	Brine
Water Depth	53	Activity	Well Testing

Operator : OMV Australia Report For : R.King & G. Othen Well Name : Patricia 2 Contractor : Diamond Offshore Report For : P.Johns	Field/Area : VIC / L21 Description : Development Location : Bass Strait Well No. :
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DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size 8.5 in		Surface	Hole	Pump Make	NATIONAL 12P-16	NATIONAL 12P-16
Nozzles 1/32"		30in @111m (111TVD)	405.3	Pump Size	6 X 12.in	6 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	gal/stk	gal/stk
5 in	m	13.375in @326m (318TVD)	-.3	Pump stk/min		
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	gal/min	
5 in	m	9.625in @873m (700TVD)	-.3	Bottoms Up		
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time		
6.75 in	m	in @m (TVD)	186	Circulating Pressure		

MUD PROPERTIES				PRODUCTS USED LAST 24 HRS		
Sample From				Products	Size	Amt
Flow Line Temp	°C					
Depth/TVD	m	1385/701				
Mud Weight	sp.gr.	1.08				
Funnel Viscosity	s/qt					
Rheology Temp	°C					
R600/R300						
R200/R100						
R6/R3						
PV	cP					
YP	lb/100ft ²					
10s/10m/30m Gel	lb/100ft ²					
API Fluid Loss	cc/30 min					
HTHP FL Temp	cc/30 min					
Cake API/HTHP	1/32"					
Solids	%Vol					
Oil/Water	%Vol					
Sand	%Vol					
MBT	lb/bbl			SOLIDS EQUIP	Size	Hr
pH				Thule VSM 100 S	120/120/120/120	0
Alkal Mud (Pm)				Thule VSM 100 S	120/120/120/120	0
Pf/Mf				Thule VSM 100 S	84/84/84/84	0
Chlorides	mg/l			D-Sander		0
Hardness Ca	mg/l			D-Silter	20 x 4"	0
				Degasser		0
KCL % by wt	%					
LSRV 1	cP					
LSRV 2	cP					
LSRV 3	cP					
				MUD PROPERTY SPECS		
				Weight	1.08	
				Viscosity		
				Filtrate		

REMARKS AND TREATMENT

REMARKS

The well testing program continued.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS (%/lb/bbl)		MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service		Oil Added	0	NaCl	-.7/	np/na	Values
Drilling		Water Added	0	KCl	/	kp/ka	(lb*s^n/100ft ²)
Tripping		Mud Received	0	Low Gravity	/	Bit Loss	(psi / %)
Condition Hole		Centrifuge	0	Bentonite	/	Bit HHP	(hhp / HSI)
B.O.P. Testing		Formation	0	Drill Solids	/	Bit Jet Vel	(ft/s)
Running Casing		Left in Hole	0	Weight Material	NA/ NA	Ann. Vel DP	(ft/min)
Cementing		Sweeps	0	Chemical Conc	- /	Ann. Vel DC	(ft/min)
Condition Mud		Desilter	0	Inert/React		Crit Vel DP	(ft/min)
Coring		Dumped	0	Average SG		Crit Vel DC	(ft/min)
Completion		Shakers	0	Carb/BiCarb (m mole/L)	/		

M-I ENGR / PHONE		RIG PHONE		WAREHOUSE PHONE		DAILY COST		CUMULATIVE COST	
Graeme Garrick	08 9325 4822					\$ 0.00		\$ 107,691.56	



WATER-BASED MUD REPORT No. 16

Date	5/07/2002	Depth/TVD	1385 m / 701 m
Spud Date	20/06/2002	Mud Type	Brine
Water Depth	53	Activity	Well suspension

Operator : OMV Australia Report For : R.King & G. Othen Well Name : Patricia 2 Contractor : Diamond Offshore Report For : P.Johns	Field/Area : VIC / L21 Description : Development Location : Bass Strait Well No. :
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DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size	8.5 in	Surface	Hole	Pump Make	NATIONAL 12P-16	NATIONAL 12P-16
Nozzles	1/32"	30in @111m (111TVD)	405.3	Pump Size	6 X 12.in	6 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	gal/stk	gal/stk
5 in	m	13.375in @326m (318TVD)	-.3	Pump stk/min		
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	gal/min	
5 in	m	9.625in @873m (700TVD)	-.3	Bottoms Up		
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time		
6.75 in	m	in @m (TVD)	186	Circulating Pressure		

MUD PROPERTIES				PRODUCTS USED LAST 24 HRS		
Sample From				Products	Size	Amt
Flow Line Temp	°C					
Depth/TVD	m	1385/701				
Mud Weight	sp.gr.	1.08				
Funnel Viscosity	s/qt					
Rheology Temp	°C					
R600/R300						
R200/R100						
R6/R3						
PV	cP					
YP	lb/100ft ²					
10s/10m/30m Gel	lb/100ft ²					
API Fluid Loss	cc/30 min					
HTHP FL Temp	cc/30 min					
Cake API/HTHP	1/32"					
Solids	%Vol					
Oil/Water	%Vol					
Sand	%Vol			SOLIDS EQUIP	Size	Hr
MBT	lb/bbl			Thule VSM 100 S	120/120/120/120	0
pH				Thule VSM 100 S	120/120/120/120	0
Alkal Mud (Pm)				Thule VSM 100 S	84/84/84/84	0
Pf/Mf				Thule VSM 100 S	84/84/84/84	0
Chlorides	mg/l			D-Sander		0
Hardness Ca	mg/l			D-Silter	20 x 4"	0
				Degasser		0
KCL % by wt	%					
LSRV 1	cP					
LSRV 2	cP					
LSRV 3	cP					
				MUD PROPERTY SPECS		
				Weight	1.08	
				Viscosity		
				Filtrate		

REMARKS AND TREATMENT	REMARKS
	The well testing program was completed and the well suspension was commenced.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS (%/lb/bbl)		MUD RHEOLOGY & HYDRAULICS			
Rig Up/Service		Oil Added	0	NaCl	-.7/	np/na	Values		
Drilling		Water Added	0	KCl	/	kp/ka	(lb*s^n/100ft ²)		
Tripping		Mud Received	0	Low Gravity	/	Bit Loss	(psi / %)		
Condition Hole		Centrifuge	0	Bentonite	/	Bit HHP	(hhp / HSI)		
B.O.P. Testing		Formation	0	Drill Solids	/	Bit Jet Vel	(ft/s)		
Running Casing		Left in Hole	0	Weight Material	NA/ NA	Ann. Vel DP	(ft/min)		
Cementing		Sweeps	0	Chemical Conc	- /	Ann. Vel DC	(ft/min)		
Condition Mud		Desilter	0	Inert/React		Crit Vel DP	(ft/min)		
Coring		Dumped	0	Average SG		Crit Vel DC	(ft/min)		
Completion		Shakers	0	Carb/BiCarb (m mole/L)	/				
M-I ENGR / PHONE		RIG PHONE		WAREHOUSE PHONE		DAILY COST		CUMULATIVE COST	
Graeme Garrick		08 9325 4822				\$ 0.00		\$ 107,691.56	



WATER-BASED MUD REPORT No. 17

Date	6/07/2002	Depth/TVD	1385 m / 701 m
Spud Date	20/06/2002	Mud Type	Brine
Water Depth	53	Activity	Weather watch

Operator : OMV Australia Report For : R.King & G. Othen Well Name : Patricia 2 Contractor : Diamond Offshore Report For : P.Johns	Field/Area : VIC / L21 Description : Development Location : Bass Strait Well No. :
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DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size 8.5 in		Surface	Hole	Pump Make	NATIONAL 12P-16	NATIONAL 12P-16
Nozzles 1/32"		30in @111m (111TVD)	405.3	Pump Size	6 X 12.in	6 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	gal/stk	gal/stk
5 in	m	13.375in @326m (318TVD)	-.3	Pump stk/min		
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	gal/min	
5 in	m	9.625in @873m (700TVD)	-.3	Bottoms Up		
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time		
6.75 in	m	in @m (TVD)	126	Circulating Pressure		

MUD PROPERTIES				PRODUCTS USED LAST 24 HRS		
Sample From				Products	Size	Amt
Flow Line Temp	°C					
Depth/TVD	m	1385/701				
Mud Weight	sp.gr.	1.08				
Funnel Viscosity	s/qt					
Rheology Temp	°C					
R600/R300						
R200/R100						
R6/R3						
PV	cP					
YP	lb/100ft ²					
10s/10m/30m Gel	lb/100ft ²					
API Fluid Loss	cc/30 min					
HTHP FL Temp	cc/30 min					
Cake API/HTHP	1/32"					
Solids	%Vol					
Oil/Water	%Vol					
Sand	%Vol					
MBT	lb/bbl			SOLIDS EQUIP	Size	Hr
pH				Thule VSM 100 S	120/120/120/120	0
Alkal Mud (Pm)				Thule VSM 100 S	120/120/120/120	0
Pf/Mf				Thule VSM 100 S	84/84/84/84	0
Chlorides	mg/l			D-Sander		0
Hardness Ca	mg/l			D-Silter	20 x 4"	0
				Degasser		0
KCL % by wt	%					
LSRV 1	cP					
LSRV 2	cP					
LSRV 3	cP					
				MUD PROPERTY SPECS		
				Weight	1.08	
				Viscosity		
				Filtrate		

REMARKS AND TREATMENT	REMARKS
	Continue with well suspension but unable to continue due to inclement weather.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS (%/lb/bbl)		MUD RHEOLOGY & HYDRAULICS			
Rig Up/Service		Oil Added	0	NaCl	-.7/	np/na	Values		
Drilling		Water Added	0	KCl	/	kp/ka	(lb*s^n/100ft ²)		
Tripping		Mud Received	0	Low Gravity	/	Bit Loss	(psi / %)		
Condition Hole		Centrifuge	0	Bentonite	/	Bit HHP	(hhp / HSI)		
B.O.P. Testing		Formation	0	Drill Solids	/	Bit Jet Vel	(ft/s)		
Running Casing		Left in Hole	0	Weight Material	NA/NA	Ann. Vel DP	(ft/min)		
Cementing		Sweeps	0	Chemical Conc	- /	Ann. Vel DC	(ft/min)		
Condition Mud		Desilter	0	Inert/React		Crit Vel DP	(ft/min)		
Coring		Dumped	60	Average SG		Crit Vel DC	(ft/min)		
Completion		Shakers	0	Carb/BiCarb (m mole/L)	/				
M-I ENGR / PHONE		RIG PHONE		WAREHOUSE PHONE		DAILY COST		CUMULATIVE COST	
Graeme Garrick 08 9325 4822						\$ 0.00		\$ 107,691.56	



WATER-BASED MUD REPORT No. 18

Date	7/07/2002	Depth/TVD	1385 m / 701 m
Spud Date	20/06/2002	Mud Type	Brine
Water Depth	53	Activity	Well Suspension

Operator : OMV Australia Report For : R.King & G. Othen Well Name : Patricia 2 Contractor : Diamond Offshore Report For : P.Johns	Field/Area : VIC / L21 Description : Development Location : Bass Strait Well No. :
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DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA	
Bit Size	8.5 in	Surface	Hole	Pump Make	NATIONAL 12P-16
Nozzles	1/32"	30in @111m (111TVD)	405.3	Pump Size	6 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	gal/stk
5 in	m	13.375in @326m (318TVD)	-.3	Pump stk/min	gal/stk
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	gal/min
5 in	m	9.625in @873m (700TVD)	-.3	Bottoms Up	
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time	
6.75 in	m	in @m (TVD)		Circulating Pressure	

MUD PROPERTIES				PRODUCTS USED LAST 24 HRS		
Sample From				Products	Size	Amt
Flow Line Temp	°C					
Depth/TVD	m	1385/701				
Mud Weight	sp.gr.	No°C				
Funnel Viscosity	s/qt					
Rheology Temp	°C	Brine				
R600/R300						
R200/R100						
R6/R3						
PV	cP					
YP	lb/100ft ²					
10s/10m/30m Gel	lb/100ft ²					
API Fluid Loss	cc/30 min					
HTHP FL Temp	cc/30 min					
Cake API/HTHP	1/32"					
Solids	%Vol					
Oil/Water	%Vol					
Sand	%Vol					
MBT	lb/bbl			SOLIDS EQUIP	Size	Hr
pH				Thule VSM 100 S	120/120/120/120	0
Alkal Mud (Pm)				Thule VSM 100 S	120/120/120/120	0
Pf/Mf				Thule VSM 100 S	84/84/84/84	0
Chlorides	mg/l			D-Sander		0
Hardness Ca	mg/l			D-Silter	20 x 4"	0
				Degasser		0
KCL % by wt	%					
LSRV 1	cP					
LSRV 2	cP					
LSRV 3	cP					
				MUD PROPERTY SPECS		
				Weight	1.08	
				Viscosity		
				Filtrate		

REMARKS AND TREATMENT	REMARKS
All brine in pits dumped.	After the weather abated the BOPs were recovered and the well suspension continued.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG (bbl)	SOLIDS ANALYSIS (%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service		Oil Added	0	NaCl	
Drilling		Water Added	0	KCl	
Tripping		Mud Received	0	Low Gravity	
Condition Hole		Centrifuge	0	Bentonite	
B.O.P. Testing		Formation	0	Drill Solids	
Running Casing		Left in Hole	0	Weight Material	
Cementing		Sweeps	0	Chemical Conc	
Condition Mud		Desilter	0	Inert/React	
Coring		Dumped	126	Average SG	
Completion		Shakers	0	Carb/BiCarb (m mole/L)	
M-I ENGR / PHONE		RIG PHONE		WAREHOUSE PHONE	
Graeme Garrick 08 9325 4822				DAILY COST	
				CUMULATIVE COST	
				\$ 0.00	
				\$ 107,691.56	



WATER-BASED MUD REPORT No. 19

Date	8/07/2002	Depth/TVD	1385 m / 701 m
Spud Date	20/06/2002	Mud Type	
Water Depth	53	Activity	Prepare to tow.

Operator : OMV Australia	Field/Area : VIC / L21
Report For : R.King & G. Othen	Description : Development
Well Name : Patricia 2	Location : Bass Strait
Contractor : Diamond Offshore	Well No. :
Report For : P.Johns	

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size 8.5 in		Surface	Hole	Pump Make	NATIONAL 12P-16	NATIONAL 12P-16
Nozzles 1/32"		30in @111m (111TVD)	405.3	Pump Size	6 X 12.in	6 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	gal/stk	gal/stk
5 in	m	13.375in @326m (318TVD)	-.3	Pump stk/min		
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	gal/min	
5 in	m	9.625in @873m (700TVD)	-.3	Bottoms Up		
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time		
6.75 in	m	in @m (TVD)		Circulating Pressure		

MUD PROPERTIES				PRODUCTS USED LAST 24 HRS		
Sample From				Products	Size	Amt
Flow Line Temp	°C					
Depth/TVD	m	1385/701				
Mud Weight	sp.gr.					
Funnel Viscosity	s/qt					
Rheology Temp	°C					
R600/R300						
R200/R100						
R6/R3						
PV	cP					
YP	lb/100ft ²					
10s/10m/30m Gel	lb/100ft ²					
API Fluid Loss	cc/30 min					
HTHP FL Temp	cc/30 min					
Cake API/HTHP	1/32"					
Solids	%Vol					
Oil/Water	%Vol					
Sand	%Vol			SOLIDS EQUIP	Size	Hr
MBT	lb/bbl			Thule VSM 100 S	120/120/120/120	0
pH				Thule VSM 100 S	120/120/120/120	0
Alkal Mud (Pm)				Thule VSM 100 S	84/84/84/84	0
Pf/Mf				Thule VSM 100 S	84/84/84/84	0
Chlorides	mg/l			D-Sander		0
Hardness Ca	mg/l			D-Silter	20 x 4"	0
				Degasser		0
KCL % by wt	%					
LSRV 1	cP					
LSRV 2	cP					
LSRV 3	cP					
				MUD PROPERTY SPECS		
				Weight	1.08	
				Viscosity		
				Filtrate		

REMARKS AND TREATMENT	REMARKS
	Complete final ROV work with sub sea tree. Pull anchors in preparation for move to next location.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS (%/lb/bbl)		MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service		Oil Added	0	NaCl	-.7/	np/na	Values
Drilling		Water Added	0	KCl	/	kp/ka	(lb*s^n/100ft ²)
Tripping		Mud Received	0	Low Gravity	/	Bit Loss	(psi / %)
Condition Hole		Shakers	0	Bentonite	/	Bit HHP	(hhp / HSI)
B.O.P. Testing		Evaporation	0	Drill Solids	/	Bit Jet Vel	(ft/s)
Running Casing		Centrifuge	0	Weight Material	NA/NA	Ann. Vel DP	(ft/min)
Cementing		Formation	0	Chemical Conc	- /	Ann. Vel DC	(ft/min)
Condition Mud		Left in Hole	0	Inert/React		Crit Vel DP	(ft/min)
Coring		Sweeps	0	Average SG		Crit Vel DC	(ft/min)
Completion		Desilter	0	Carb/BiCarb (m mole/L)	/		
M-I ENGR / PHONE		RIG PHONE		WAREHOUSE PHONE		DAILY COST	CUMULATIVE COST
Graeme Garrick 08 9325 4822						\$ 0.00	\$ 107,691.56

BIT RECAP

Patricia-2

From : 20-Jun-02

To : 28-Jun-02

DATE	BIT#	SIZE	SER#	MF	IADC	TYPE	JETS	OUT	FTGE	HRS o/b	SPP psi	FLW gpm	WOB lbs	RPM	VEL fps	HHP	ROP f/hr	I	O1	D	L	B	G	O2	R
20-Jun-02	1	26.00	KW0659	Smith	111	DSJC	1x17, 3x24	112	34	.6	1034	910	6.0	60	57.4	0.000	56.7	1	1	WT	A	1	IN	NO	TD
21-Jun-02	2RR	17.50	740844	SE	115	XT1C	3x24	334	223	3.6	1410	803	10.0	40	59.1	0.068	61.8	2	2	WT	A	E	IN	BU	TD
23-Jun-02	3	12.50	NL5007	Reed	137M	MHT 13GC	3x15, 1x24		70	3.9	1420	859	10.0	200	87.3	0.313	17.9								
24-Jun-02	3	12.50	NL5007	Reed	135M	MHT 13GC	3x15, 1x24		304	18.4	1730	852	10.0	200	86.6	2.643	16.5								
25-Jun-02	3	12.50	NL5007	Reed	135M	MHT 13GC	3x15, 1x24	884	176	10.6	2160	847	14.0	200	86.1	2.693	16.6	2	2	WT	A	B	1/16	NO	TD
26-Jun-02	4	8.50	M-25484	Reed		EPH-41-ALKDH	x								.0	0.000									
27-Jun-02	4	8.50	M-25484	Reed	417	EPH-41-ALKDH	1x14, 1x14, 1x14		481	12.8	2090	573	8.0	130	123.9	8.161	37.6								
28-Jun-02	4	8.50	M-25484	Reed	417	EPH-41-ALKDH	1x14, 1x14, 1x14	1,385	20	1.0	1750	580	10.0	130	125.4	8.161	20.0	1	2	WO	G	E	I	WT	TD

Time Analysis Overview

Well : Patricia-2
Drilling Co : DIAMOND OFFSHORE
Rig : OCEAN BOUNTY
Spud date : 20-Jun-02
TD Depth : 1,385.0
Final Depth : 1,385.0
Total Time (hrs) - Spud/Release : 400.00
Total Time (hrs) - Rig Move : 0.00
Total NPT (hrs) : 49.75
Total Time (hrs) - Pre Spud : 2.50

Time-Breakdown : Times by Class and Operation

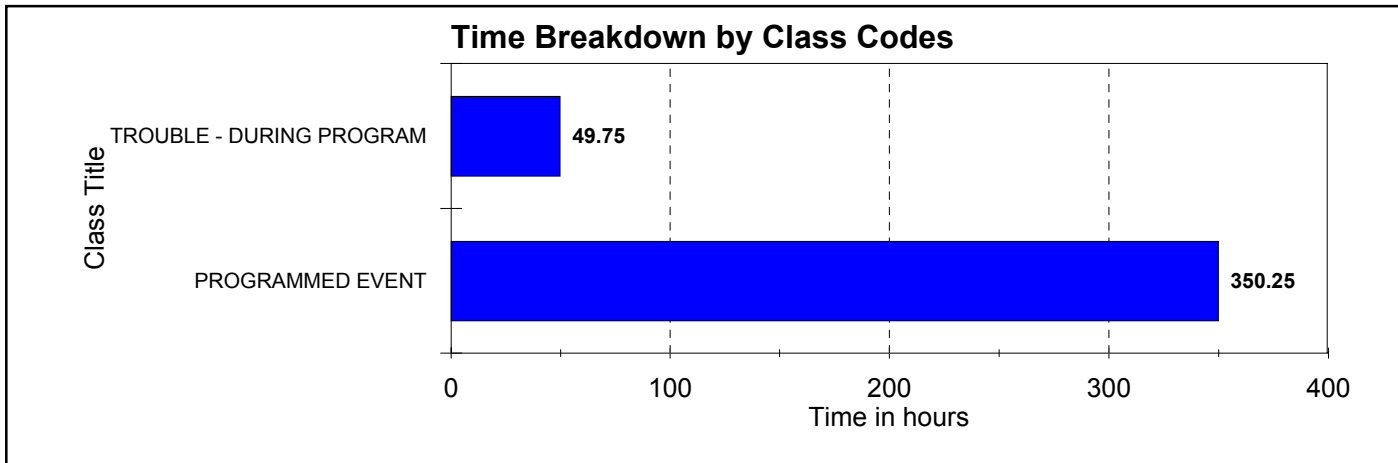
Operations of < than 2 hrs

Class	Hrs
PROGRAMMED EVENT	350.3
TROUBLE - DURING PROGRAM	49.8

Operation	Hrs
DRILLING AHEAD	66.3
TOT. CSG/CMT	58.8
TOT. TRIPPING	31.0
WELLBORE CLEAN-UP	30.0
XMAS TREE WORK	29.0
FLOW WELL/CLEAN UP	26.3
COILED TUBING OPERATIONS	25.5
RUN TUBING	25.3
PULL COMPLETION	14.5
PRESSURE TEST	14.3
RISER - RUN	11.5
WIPER TRIP	11.5
CIRCULATE & CONDITION MUD	10.3
HANDLE BHA	10.0
BOP : NIPPLE U/D AND TEST	10.0
SLICKLINE	8.8
HANDLE TOOLS	6.5
RUN & SET PACKERS	3.5
WELL-HEAD	3.5
LEAK-OFF TEST	1.5
RIG UP (THE RIG)	1.0
RIG SERVICE	1.0
EXERCISE/DRILL	.3

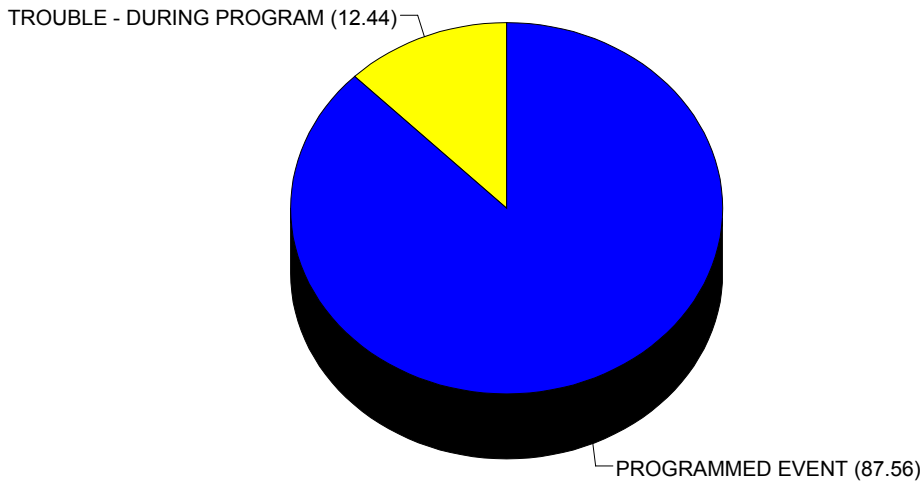
WELL : Patricia-2

Pacesetter : none selected



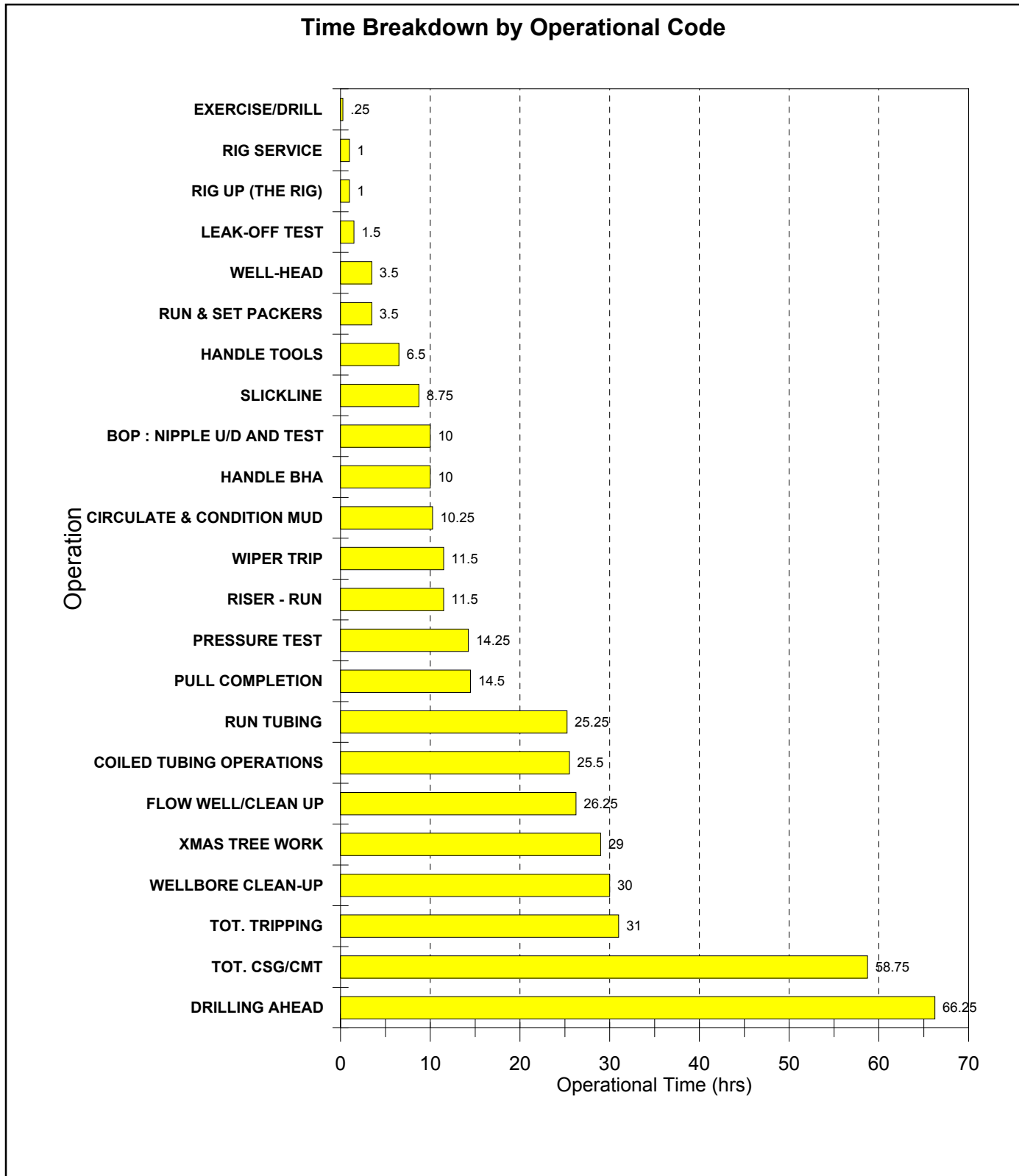
Time Analysis by Class Codes

Class	Hrs
PROGRAMMED EVENT	350.3
TROUBLE - DURING PROGRAM	49.8



WELL : Patricia-2

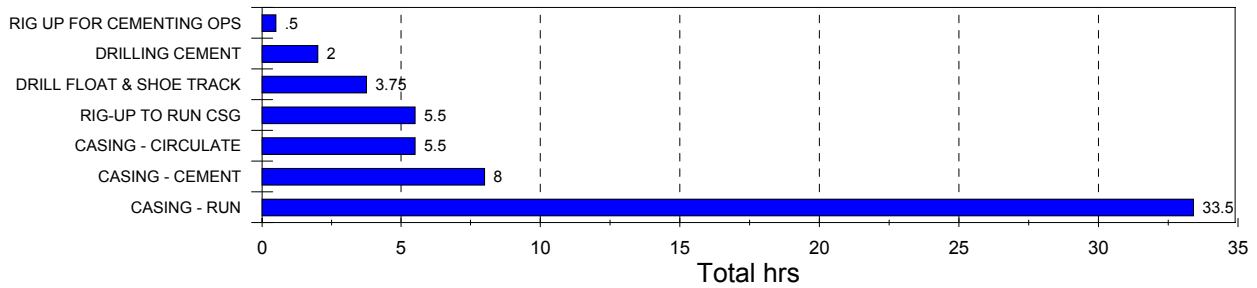
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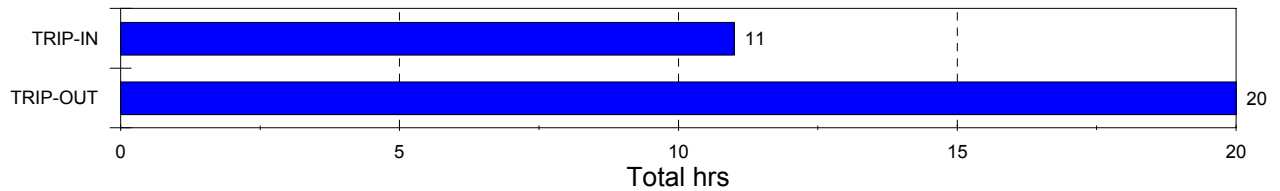
WELL : Patricia-2

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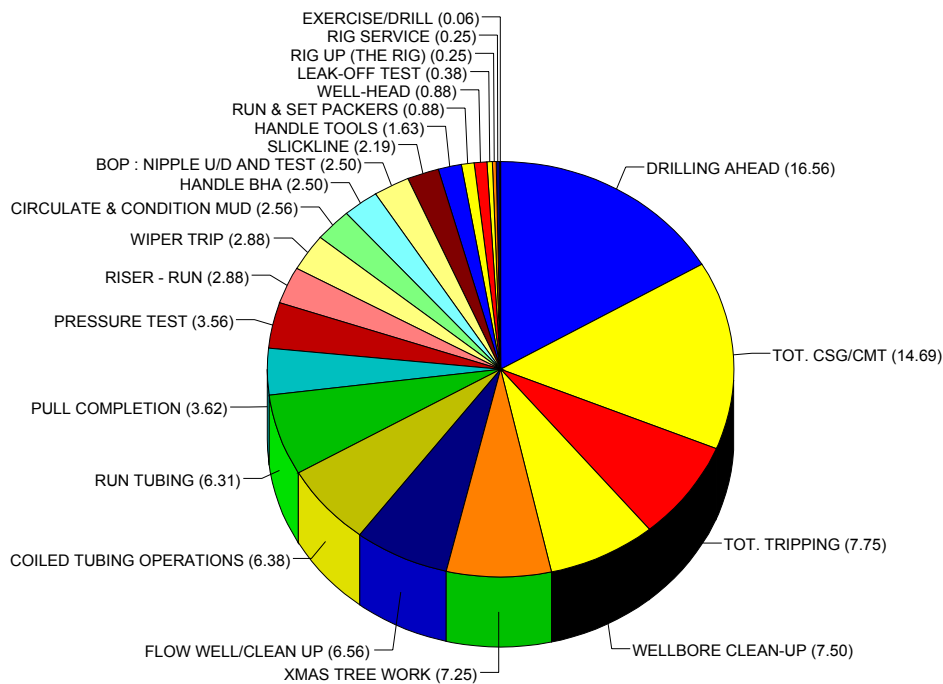
Breakdown of Total Csg & Cmtng Time



Breakdown of Total Tripping Time



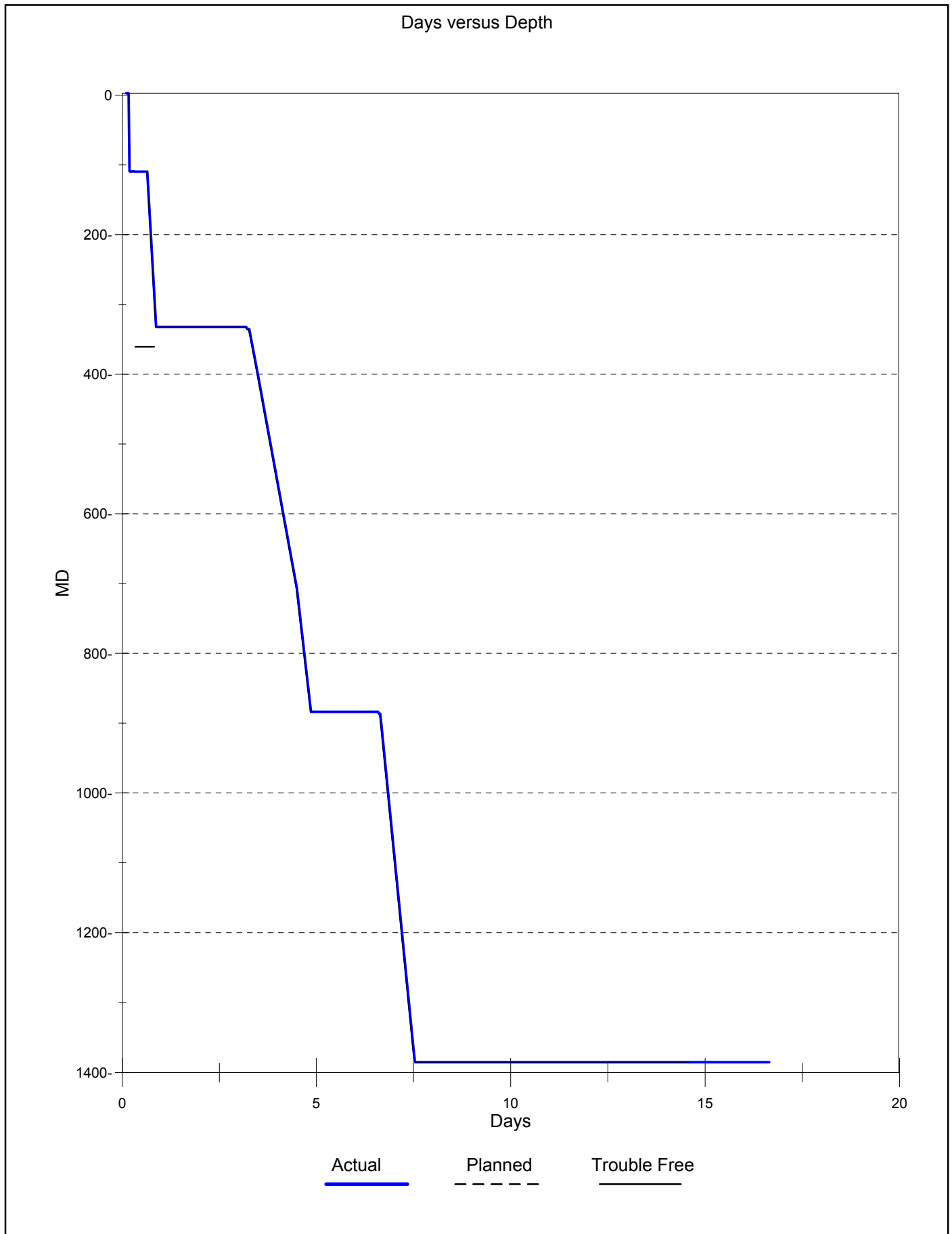
Time Analysis by Operational Codes

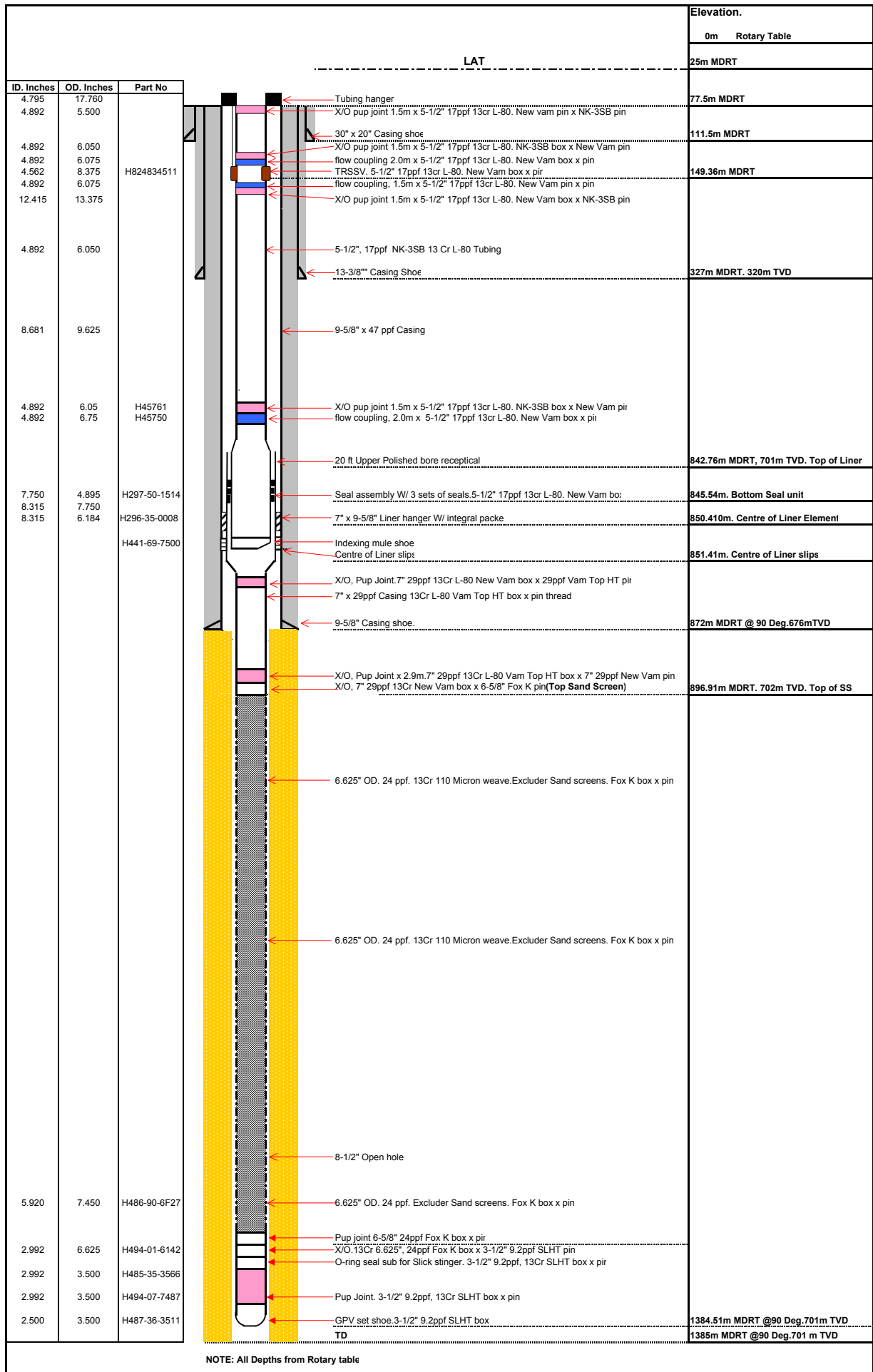


Operation	hrs
DRILLING AHEAD	66.3
TOT. CSG/CMT	58.8
TOT. TRIPPING	31.0
WELLBORE CLEAN-UP	30.0
XMAS TREE WORK	29.0
FLOW WELL/CLEAN UP	26.3
COILED TUBING OPERATIONS	25.5
RUN TUBING	25.3
PULL COMPLETION	14.5
PRESSURE TEST	14.3
RISER - RUN	11.5
WIPER TRIP	11.5
CIRCULATE & CONDITION MUD	10.3
HANDLE BHA	10.0
BOP : NIPPLE U/D AND TEST	10.0
SLICKLINE	8.8
HANDLE TOOLS	6.5
RUN & SET PACKERS	3.5
WELL-HEAD	3.5
LEAK-OFF TEST	1.5
RIG UP (THE RIG)	1.0
RIG SERVICE	1.0
EXERCISE/DRILL	0.3

WELL : Patricia-2

Pacesetter : none selected





DATE Jun 20, 2002

FROM : G. Howard / J. Kenrick
TO : C. Allport / S. Crocker

Patricia-2

VIC/L21

Well Data		DEPTH (mBRT)	111.5	CUR. HOLE SIZE (")	36.00	AFE COST \$	11,852,851
COUNTRY	AUSTRALIA	TVD (mBRT)	111.5	CASING OD (")	30 "	AFE BASIS :	C&S
FIELD	GIPPSLAND SUB-BASIN	PROGRESS (m)	34.0	SHOE TVD (mBRT)	112	DAILY COST :	\$1,331,820.00
DRILL CO.	DIAMOND OFFSHORE	DAYS ON WELL	1.00	FIT (sg)	0.00	CUM COST :	\$1,331,820.00
RIG	OCEAN BOUNTY	DAYS +/- CURVE		LOT (sg)	0.00		
RT ABOVE SL (m)	25.0	CURRENT OP @ 0600 Drill 17.1/2" hole section.					
WATER DEPTH (m) LAT	52.5	PLANNED OP. Drill to section TD. Pull out of hole & run 13.3/8" casing.					
RT TO SEABED (m)	77.5						

Summary of period 0000 to 2400 hrs
 Moved rig to Patricia-2 location. Set anchors & positioned rig. Spudded Patricia-2 at 16:00hrs on 20th June 2002. Drilled 26"/36" hole to section TD at 111.50m. Ran & cemented 30" casing.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 20, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
RM	P		AH	00:00	00:30	.50	0	Refer Report No 29, Baleen-3.
RM	P		RM	00:30	04:30	4.00	0	Rig under tow to Patricia-2 location. Pacific Sentinel on main tow bridle, Pacific Conqueror anchor handling vessel. Anchor 6 on bottom at 03:41hrs 20th June 2002. Move rig in to intended surface location.
RM	P		AH	04:30	12:00	7.50	0	Anchor 2 pennant passed to Conqueror at 04:43hrs. Anchor 2 on bottom at 05:22hrs. Reset anchor 2. Pennant passed to rig at 07:30hrs. Anchor 3 pennant passed to Conqueror at 08:00hrs, anchor set at 08:15hrs, pennant to rig at 08:25hrs. Released Sentinel from main tow bridle. Anchor 7 pennant passed to Sentinel at 08:53hrs, anchor set at 08:54hrs, pennant to rig at 09:15hrs. Anchor 5 pennant passed to Conqueror at 08:53hrs, anchor set at 09:27hrs, pennant passed to rig at 10:10hrs. Anchor 1 pennant passed to sentinel at 09:47 hrs, anchor set at 10:23hrs, pennant passed to rig at 10:25hrs. Anchor 4 pennant passed to Conqueror at 10:25hrs, anchor set at 10:41hrs, pennant passed to rig at 10:49hrs. Anchor 8 pennant passed to Sentinel at 10:41hrs, anchor set at 11:08, pennant to rig at 11:50hrs. Cross tensioned anchors.
PS	P		RRC	12:00	14:30	2.50	0	Made up 20"/30" casing & PGB. Hung off in moonpool.
CH	P		HBH	14:30	16:00	1.50	0	Ran in hole with 26"/36" spud assembly. Tagged seabed at 77.5m LAT.
CH	P		DA	16:00	16:30	.50	112	Spudded Patricia-2 at 16:00hrs 20th June 2002. Drilled 36" hole from 77.5m to 111.50m TD.
CH	P		WT	16:30	17:00	.50	112	Displaced hole to prehydrated bentonite. Pulled out of hole to 80m.
CH	P		CMD	17:00	17:30	.50	112	Ran in hole from 80m to 111.50m. No fill. Displaced hole to prehydrated gel & dropped totco.
CH	P		TO	17:30	18:30	1.00	112	Pulled out of hole & racked back spud assembly. Recovered totco 1/4 degree.
CON	P		CRN	18:30	20:00	1.50	112	Picked up & made up 5" cement stinger & running tool. Made running tool up to wellhead & ran to sea level. Filled with seawater & closed valves.
CON	TP	CSG	CRN	20:00	20:30	.50	112	Moved rig forward starboard with anchor 3 & paid out anchor 8 to stab casing.
CON	P		CRN	20:30	21:30	1.00	112	Ran & landed casing. Checked slope indicator with ROV - 0 degrees. PGB heading 259 degrees.
CON	P		RUC	21:30	22:00	.50	112	Rigged up cement hose & held pre-job safety meeting.
CON	P		CMC	22:00	23:00	1.00	112	Pumped 10bbbls seawater & pressure tested cement lines to 2000psi. Pumped 10bbbls seawater with fluorecne. Mixed & pumped 160bbbls 15.9ppg cement slurry. Displace with 11.50bbbls seawater. Bled off & checked backflow. Cement in place at 22:45hrs. Full returns observed throughout job & cement returns to surface.

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
CON	P		CMC	23:00	24:00	1.00	112	Rigged down cement hose & released running tool. Pulled out of hole with 5" cement stinger. Laid down pump in sub & 30" running tool.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jun 21, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
SH	P		TI	00:00	02:30	2.50	112	Picked up 17.1/2" BHA. Initialised MWD & ran in hole to top of cement at 102m. Weight tested cement to 10K.
SH	P		DFS	02:30	03:30	1.00	112	Drilled cement & shoe from 102m to 111.50m.
SH	P		DA	03:30	06:00	2.50	220	Drilled 17.1/2" hole from 111.50m to 220m.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	12.0	Jun 20, 2002	Jun 20, 2002	12.0	0.50	0.0	0.0
RIG-UP/PRESPUD	2.5	Jun 20, 2002	Jun 20, 2002	14.5	0.60	0.0	0.0
CONDUCTOR HOLE	4.0	Jun 20, 2002	Jun 20, 2002	18.5	0.77	0.0	112.0
CONDUCTORS	5.5	Jun 20, 2002	Jun 20, 2002	24.0	1.00	112.0	112.0

WBM Data		COST TODAY : \$5,056		CUM. WB MUD COST: \$5,056		CUM. WBM+OBM COST: \$5,056	
Type : rehydrated Bentonite	VISCOCITY (sec/qt) : 100	API FLUID LOSS (cm3/30min) :	CI :	SOLIDS (%vol) :			
FROM : Pit	PV (cps) :	FILTER CAKE (32nds inch) :	K+C*1000 :	H2O (%vol) :			
TIME : 20	YP (lb100sq.ft) :	HTHPFL (cm3/30min) :	HARD/Ca :	OIL (%vol) :			
WEIGHT (sg) : 1.04	GEL 10s/10m/100m (lb100sq.ft) : 12 18	HTHP CAKE (32nds inch) :	MBT (ppb) :	SAND :			
TEMP (C) :	Fann 3/6/100 :		PM :	PH :			
			PF :	PHPA (ppb) :			

Bit Data for Bit # 1 IADC # 1 1 1				Wear													
				I	O1	D	L	B	G	O2	R						
				1	1	WT	A	1	IN	NO	TD						
SIZE (") :	26.00			NOZZLES				Drilled over the last 24 hrs				Calculated over the bit run					
MANUFACTURER :	Smith	AVE WOB (k-lbs) :	6	1 X17	METERAGE (m) :				34	CUM.METERAGE (m)				34			
TYPE :	DSJC	AVE RPM :	60	3 X24	ON BOTTOM HRS :				.6	CUM. ON BOT. HRS :				.6			
SERIAL # :	KW0659	FLOW (gpm) :	910	X	IADC DRILL. HRS :				1.0	CUM.IADC DRILL HRS:				1.0			
DEPTH IN (m RT) :	78	PUMP PRESS. (psi) :	1,034	X	TOTAL REVS :				2,160	CUM.TOT. REVS :				2,160			
DEPTH OUT (m RT) :	112	HSI (hp/sqi) :	0.000	X	ROP (m/hr) :				34.0	ROP (m/hr) :				34.0			

BHA # 1 Length (ft) :62.4				D.C. (1) ANN. VELOCITY (mpm) :				0					
WT BLW JAR(k-lbs) :		STRING WT(k-lbs) :	40	TRQE MAX (ft-lbs) :	1,500	D.C. (2) ANN VELOCITY (mpm) :				0			
BHA WT(k-lbs) :	40	PICK UP WT(k-lbs) :	40	TRQE ON (ft-lbs) :	1,500	H.W.D.P. ANN VELOCITY (mpm) :				0			
		SLK OFF WT(k-lbs) :	40	TRQE OFF (ft-lbs) :	1,500	D.P. ANN VELOCITY (mpm) :				0			

BHA DESCRIPTION : 26" Bit, 36" Hole Opener, Bit Sub, 3 x 9.1/2" Drill Collars, Crossover, 3 x 8.1/4" Drill Collars, Crossover.

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT

Survey	MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/30m)	N/S (m)	E/W (m)	TOOL TYPE
Last Tool Type :										
Magnetic Declination :	0.00									
Survey method :	Min Curvature									

Pump Data										
Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National 1	6.00	31	97	133	1034				
2	National 1	6.00	31	97	133	1034				
3	National 1	6.00	31	97	133	1034				

Bulk Stocks On Rig				
STOCK TYPE	START	USED	REC'D	STOCK
Barite	SX	436		436
Bentonite	SX	1662	358	1304
G-neat	SX	1449	895	554
G+35% SiFI	SX			0
G+BFS+12.25% SiFI	SX			0
Pot Water	M3	98	25	98
Drill Water	M3	436	288	393
Heli-fuel	ltr	1845		1845
Base Oil	M3			0
Rig Fuel	M3	370	10	361
Brine	M3			0

Casing						
DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
30 "	30.000	111.5	111.5			

Personnel : on Site =95			
JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	G. Howard	OMV	6
Drilling Supervisor	J. Kenrick	Service Company	29
Sub Sea Engineer	W. Bates	Diamond Offshore	52
Drilling Engineer	P. Zehepleitner	Catering	8
Geologist	R. Tolliday		
Geologist	P. Boothby		

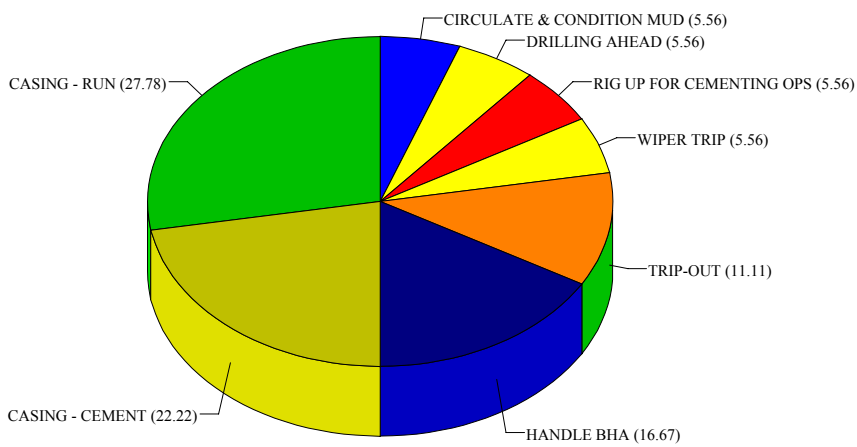
Safety, Inspections and Drills		Summary
days since last	Medical Treatment Case	
days since last	First Aid Case	
days since last	Environmental Issue	
days since last	Walkabout	
days since last	Rig Inspection	
days since last	Pre-Job Meetings	
days since last	Trip/Pit Drill	
days since last	Fire Drill	
days since last	Abandon Drill	
days since last	Heavy Lift Meeting	
days since last	BOP Test	

Shakers, Volumes and Losses Data				ENGINEER G. Garrick/R. Graham
SHAKER 1	4 x 100	VOLUME AVAILABLE (bbl) = 740 ACTIVE MIXING HOLE 79 SLUG RESERVE 661 HEAVY	LOSSES (bbl) = 0 DOWNHOLE SURF. + EQUIP 0.00 DUMPED	COMMENTS Swept hole with prehydrated gel sweeps.
SHAKER 2	4 x 100			
SHAKER 3	4 x 100			
SHAKER 4	4 x 100			
SHAKER 5	4 x 100			

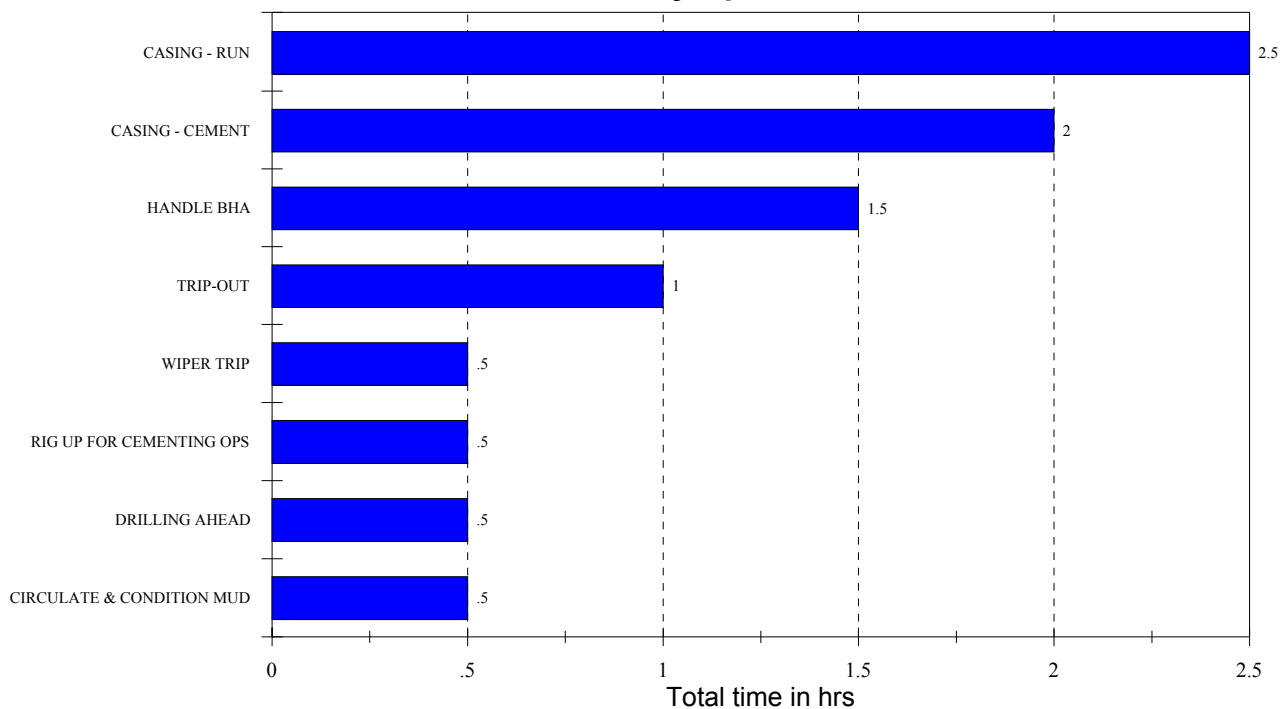
Anchors		A 1	350	A 2	305	A 3	380	A 4	385	A 5	285			
		A 6	300	A 7	175	A 8	235							
Workboats														
	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)	Weather			Rig / Sea Data		
Pacific Conqueror	Standb:	379	0	640	142	1188	838	39.75	VISIBILITY(nm)	12	RIS.TENS (klbs)	0		
Pacific Sentinel	Transit	105	1190	0	55	0	0	87.44	WIND SP. (kts)	30.0	VDL (mt)	2,050		
									WIND DIR (deg)	230	WAVES (m)	1.8		
									PRES.(mbars)	1014	SWELL (m)	1.5		
									AIR TEMP (C)	13.0				

Total move time (hrs)	14.50	Total prod. time since spud (hrs) :	9.00
Total time on well excluding move (hrs)	9.50	Total troub. time since spud (hrs)	0.50
		% Trouble time	5.26

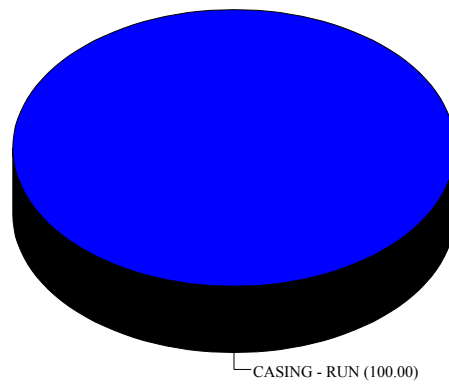
Productive Time by Op.



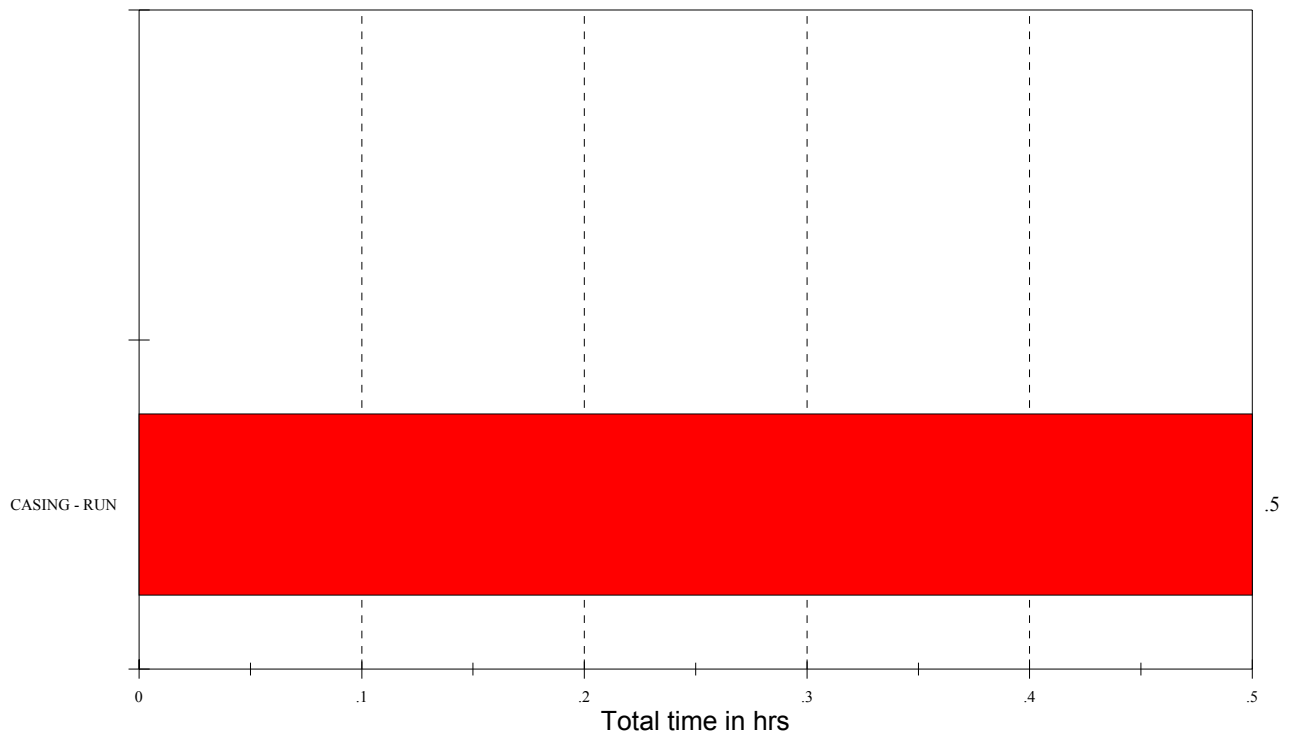
Productive time by Operation



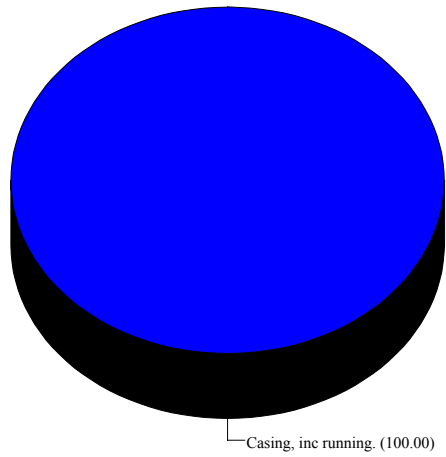
Trouble Time by Op.



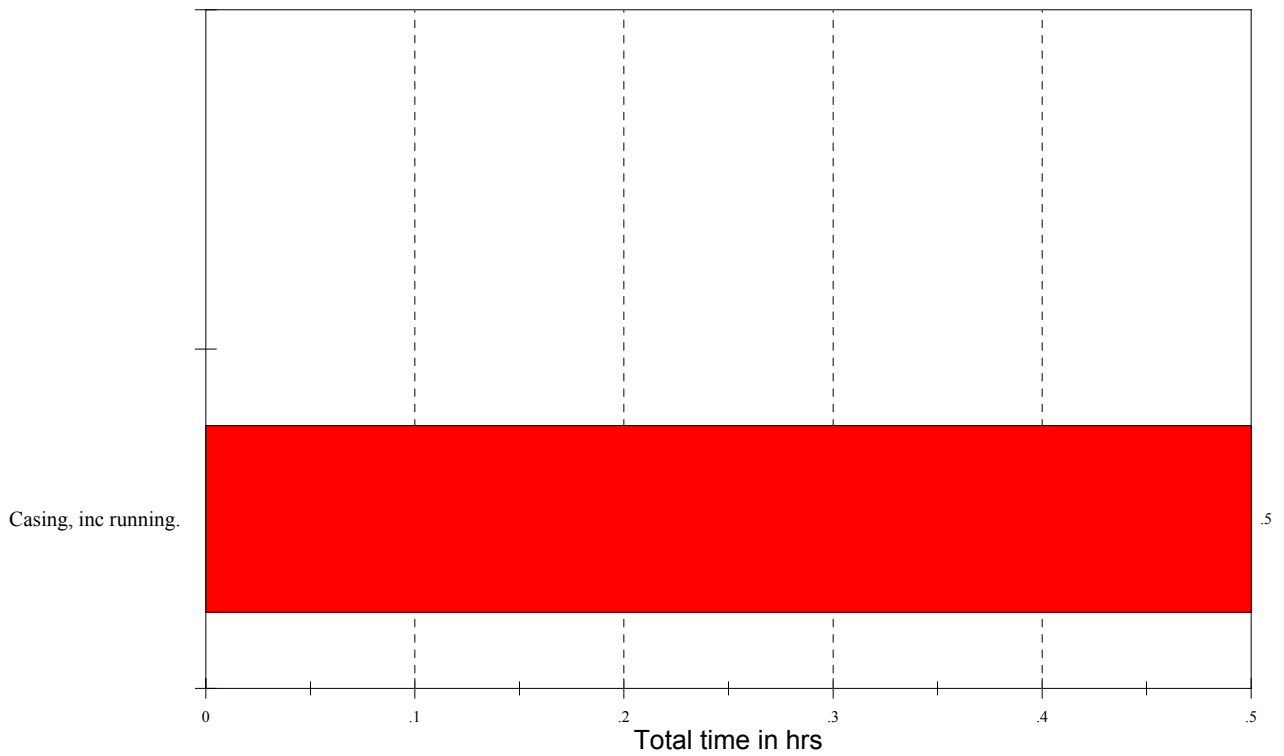
NPT by Operation



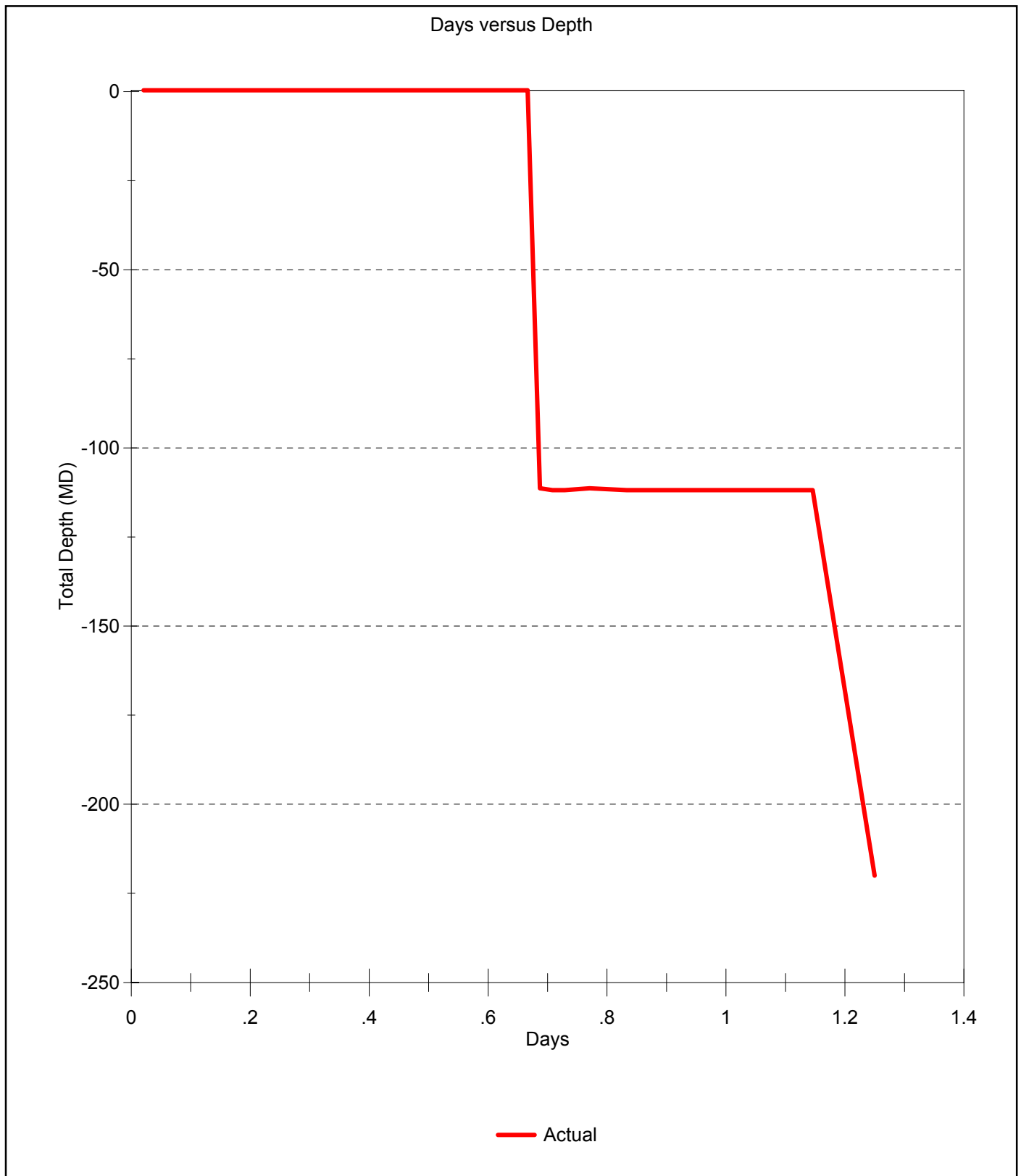
Root Cause Analysis



Root Cause Analysis



DEPTH @ 24:00 = 111.5m after 1.00 days since spud



DATE Jun 21, 2002

FROM : G. Howard / J. Kenrick
TO : C. Allport / S. Crocker

Patricia-2

VIC/L21

Well Data		DEPTH (mBRT)	334.0	CUR. HOLE SIZE (")	17.50	AFE COST \$	11,852,851
COUNTRY	AUSTRALIA	TVD (mBRT)	332.5	CASING OD (")	13.3/8 "	AFE BASIS :	C&S
FIELD	GIPPSLAND SUB-BASIN	PROGRESS (m)	222.5	SHOE TVD (mBRT)	326	DAILY COST :	\$715,215.00
DRILL CO.	DIAMOND OFFSHORE	DAYS ON WELL	2.00	FIT (sg)	0.00	CUM COST :	\$2,047,035.00
RIG	OCEAN BOUNTY	DAYS +/- CURVE	-1.98	LOT (sg)	0.00		
RT ABOVE SL (m)	25.0	CURRENT OP @ 0600 Running Xmas Tree.					
WATER DEPTH (m) LAT	52.5	PLANNED OP. Run & land Xmas Tree. Run BOP & marine riser.					
RT TO SEABED (m)	77.5						

Summary of period 0000 to 2400 hrs

Ran in hole with 17.1/2" BHA. Drilled out shoetrack. Drilled 17.1/2" hole from 111.50m to section TD at 334m. Pulled out of hole. Ran & cemented 13.3/8" casing.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 21, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
SH	P		TI	00:00	02:30	2.50	112	Picked up 17.1/2" BHA. Initialised MWD & ran in hole to top of cement at 102m. Weight tested cement to 10K.
SH	P		DFS	02:30	03:30	1.00	112	Drilled cement & shoe from 102m to 111.50m.
SH	P		DA	03:30	09:00	5.50	334	Drilled 17.1/2" hole from 111.50m to 334m section TD. (332.49m TVD)
SH	P		CMD	09:00	10:00	1.00	334	Swept hole with 100bbl hi vis pill. Pumped & spotted 320bbls prehydrated gel.
SH	P		WT	10:00	11:30	1.50	334	Pulled out of hole from 334m to 111m. (Backreamed from 325m to 230m)
SH	P		WT	11:30	12:30	1.00	334	Ran in hole from 111m to 334m. (No fill)
SH	P		CMD	12:30	13:00	.50	334	Circulated theoretical hole volume with seawater. Displaced hole to prehydrated gel.
SH	P		TO	13:00	15:00	2.00	334	Pulled out of hole. Laid down drilling jar & downloaded MWD.
SC	P		RRC	15:00	15:30	.50	334	Rigged up to run 13.3/8" casing. Held pre-job safety meeting.
SC	P		CRN	15:30	18:30	3.00	334	Made up shoe track & checked floats. Ran 13.3/8" casing.
SC	P		CRN	18:30	21:00	2.50	334	Picked up & made up wellhead joint. Released running tool & loaded wiper plugs. Made up running tool.
SC	P		CRN	21:00	21:30	.50	334	Ran in hole with casing on 8" Drill Collars & 5" Drill Pipe.
SC	P		CRN	21:30	22:00	.50	334	Latched 18.3/4" wellhead in 30" housing. Confirmed with 50K overpull. Rigged up cementing hose.
SC	P		CIC	22:00	22:30	.50	334	Circulated 150% casing capacity.
SC	P		CMC	22:30	24:00	1.50	334	Pumped 10bbls seawater ahead. Pressure tested cement lines to 3000psi. Dropped ball & pumped 10bbls seawater behind. Bottom plug sheared with 290psi after pumping 1.5bbls. Mixed & pumped 95bbls of 12.5ppg lead slurry followed by 100bbls of 15.9ppg tail slurry. Dropped dart & displaced casing with seawater. Top plug sheared with 2400psi after pumping 4bbls. Displaced casing with 109bbls seawater - 50% shoetrack volume. Plug did not bump. Bled off & checked for backflow. Cement in place at 23:49hrs.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jun 22, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
SC	P		CMC	00:00	01:30	1.50	334	Released setting tool. Pulled out & laid down setting tool.
SC	P		CMC	01:30	02:00	.50	334	Laid down cement head.
SH	P		XT	02:00	05:30	3.50	334	Rigged up to run subsea tree. Moved rig 10m off location. Made up running tool to tree & installed umbilical. Attached guide wires & lowered tree through moonpool.
SH	P		XT	05:30	06:00	.50	334	Ran tree through splash zone. Positioned rig over location.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	12.0	Jun 20, 2002	Jun 20, 2002	12.0	0.50	0.0	0.0
RIG-UP/PRESPUD	2.5	Jun 20, 2002	Jun 20, 2002	14.5	0.60	0.0	0.0
CONDUCTOR HOLE	4.0	Jun 20, 2002	Jun 20, 2002	18.5	0.77	0.0	112.0

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
CONDUCTORS	5.5	Jun 20, 2002	Jun 20, 2002	24.0	1.00	112.0	112.0
SURFACE HOLE	15.0	Jun 21, 2002	Jun 21, 2002	39.0	1.63	112.0	334.0
SURFACE CASING	9.0	Jun 21, 2002	Jun 21, 2002	48.0	2.00	334.0	334.0

00:00 TO 24:00 HRS ON : Jun 21, 2002		
Comments	Recommendations	Rig Requirements
Final Rig Position: Latitude 38 Degrees 01 Minutes 39.95 Seconds South. Longitude 148 Degrees 26 Minutes 57.78 Seconds East. Final position is 1.60m on a bearing of 304 Degrees True from the intended surface location. Final Rig Heading 260 Degrees True.		

WBM Data		COST TODAY : \$10,448	CUM. WB MUD COST: \$15,504	CUM. WBM+OBM COST: \$15,504
Type : rehydrated Bentonite	VISCOCITY (sec/qt) : 100	API FLUID LOSS (cm3/30min) :	CI :	SOLIDS (%vol) :
FROM : Pit	PV (cps):	FILTER CAKE (32nds inch) :	K+C*1000 :	H2O (%vol) :
TIME : 07:00	YP (lb100sq.ft):	HTHPFL (cm3/30min) :	HARD/Ca :	OIL (%vol) :
WEIGHT (sg) : 1.06	GEL 10s/10m/100m (lb100sq.ft) : 12 18	HTHP CAKE (32nds inch) :	MBT (ppb) :	SAND :
TEMP (C) :	Fann 3/6/100 :		PM :	PH :
			PF :	PHPA (ppb) :
COMMENT: Cleaned mud pits in preparation for next hole section.				

Bit Data for Bit # 2RR IADC # 1 1 5				Wear											
				I	O1	D	L	B	G	O2	R				
				2	2	WT	A	E	IN	BU	TD				
SIZE (") :	17.50			NOZZLES				Drilled over the last 24 hrs				Calculated over the bit run			
MANUFACTURER :	SE	AVE WOB (k-lbs) :	10	3 X24	METERAGE (m) :				223	CUM.METERAGE (m) :				223	
TYPE :	XT1C	AVE RPM :	40	X	ON BOTTOM HRS :				3.6	CUM. ON BOT. HRS :				3.6	
SERIAL # :	740844	FLOW (gpm) :	803	X	IADC DRILL. HRS :				5.5	CUM.IADC DRILL HRS :				5.5	
DEPTH IN (m RT) :	112	PUMP PRESS. (psi) :	1,410	X	TOTAL REVS :				8,640	CUM.TOT. REVS :				8,640	
DEPTH OUT (m RT) :	334	HSI (hp/sqi) :	0.068	X	ROP (m/hr) :				40.5	ROP (m/hr) :				40.5	

BHA #2 Length (ft) :219.2				D.C. (1) ANN. VELOCITY (mpm) :				25
WT BLW JAR(k-lbs):	30	STRING WT(k-lbs) :	210	TRQE MAX (ft-lbs):	2,000	D.C. (2) ANN VELOCITY (mpm) :		28
BHA WT(k-lbs) :		PICK UP WT(k-lbs) :	210	TRQE ON (ft-lbs):	1,500	H.W.D.P. ANN VELOCITY (mpm) :		21
		SLK OFF WT(k-lbs) :	210	TRQE OFF (ft-lbs):	1,000	D.P. ANN VELOCITY (mpm) :		21

BHA DESCRIPTION : 17.1/2" Bit, 9.5/8" PDM,9.1/2", Crossover, 8" RLL, 8" MPT, Float Sub, 3 x 8.1/4" Drill Collars, 8" Drilling Jar, 2 x 8.1/4" Drill Collars, Crossover, 15 x Hevi Wate Drill Pipe.

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT
9.5/8" PDM	7.5	963212	
8" RLL	7.5	DM1515HGV R	
8" MPT	7.5	DM01535KF8	
8.25" Drilling Jar	7.5	DAH01965	

Survey		MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/30m)	N/S (m)	E/W (m)	TOOL TYPE
Last Tool Type :	Projection										
Magnetic Declination :	0.00										
Survey method :	Min Curvature	251	251	6.36	248.	248.3	1.8	3.90	0.9	-3.0	MWD
		280	280	10.56	243.	243.2	5.9	4.36	-0.9	-6.9	MWD
		315	314	11.75	244.	244.1	12.5	1.04	-3.9	-12.9	MWD
		334	332	11.75	244.	244.1	16.3	0.00	-5.6	-16.4	Projection

Bulk Stocks On Rig					
STOCK TYPE	START	USED	REC'D	STOCK	
Barite	SX	436			436
Bentonite	SX	1304	596	838	1546
G-neat	SX	554		1131	1685
G+35% SiFI	SX				0
G+BFS+12.25% SiFI	SX				0
Pot Water	M3	98	25	25	98
Drill Water	M3	541	265	456	732
Heli-fuel	ltr	1845	1202		643
Base Oil	M3				0
Rig Fuel	M3	361	11	150	500
Brine	M3				0

Pump Data										
Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National 1	6.00	63	97	269	1410				
2	National 1	6.00	63	97	269	1410				
3	National 1	6.00	63	97	269	1410				

Casing						
DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
13.3/8 "	13.375	327.1	325.6			Mixed & pumped 95bbbls 12.5ppg lead slurry followed by 100bbbls 15.9ppg tail slurry. Displaced with seawater to 50% shoetrack volume. Plug did not bump.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
Cameron 18.3/4" Wellhead Joint	12.00	18.000	205.0	X-56	BTC
Crossover	12.27	12.415	68.0	K55	BTC
16 x Intermediate Joints	190.79	12.415	68.0	K55	BTC
Float Joint	12.42	12.415	68.0	K55	BTC
Intermediate Joint	11.73	12.415	68.0	K55	BTC
Shoe Joint	12.61	12.415	68.0	K55	BTC

Personnel : on Site =97

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	G. Howard	OMV	6
Drilling Supervisor	J. Kenrick	Service Company	30
Sub Sea Engineer	W. Bates	Diamond Offshore	53
Drilling Engineer	P. Zehetleitner	Catering	8
Geologist	R. Tolliday		
Geologist	P. Boothby		

Safety, Inspections and Drills Summary

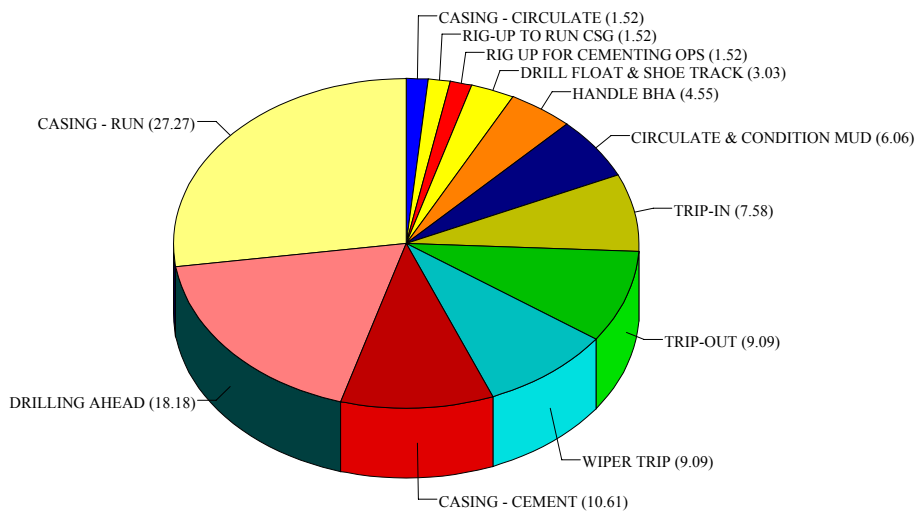
Shakers, Volumes and Losses Data					ENGINEER G. Garrick/R. Graham
SHAKER 1	4 x 100	VOLUME AVAILABLE (bbl) = 0 ACTIVE MIXING HOLE SLUG RESERVE HEAVY	LOSSES (bbl) = 0 DOWNHOLE SURF. + EQUIP 0.00 DUMPED	COMMENTS	
SHAKER 2	4 x 100				
SHAKER 3	4 x 100				
SHAKER 4	4 x 100				
SHAKER 5	4 x 100				

Anchors		A 1	330	A 2	285	A 3	365	A 4	385	A 5	275
		A 6	300	A 7	185	A 8	245				

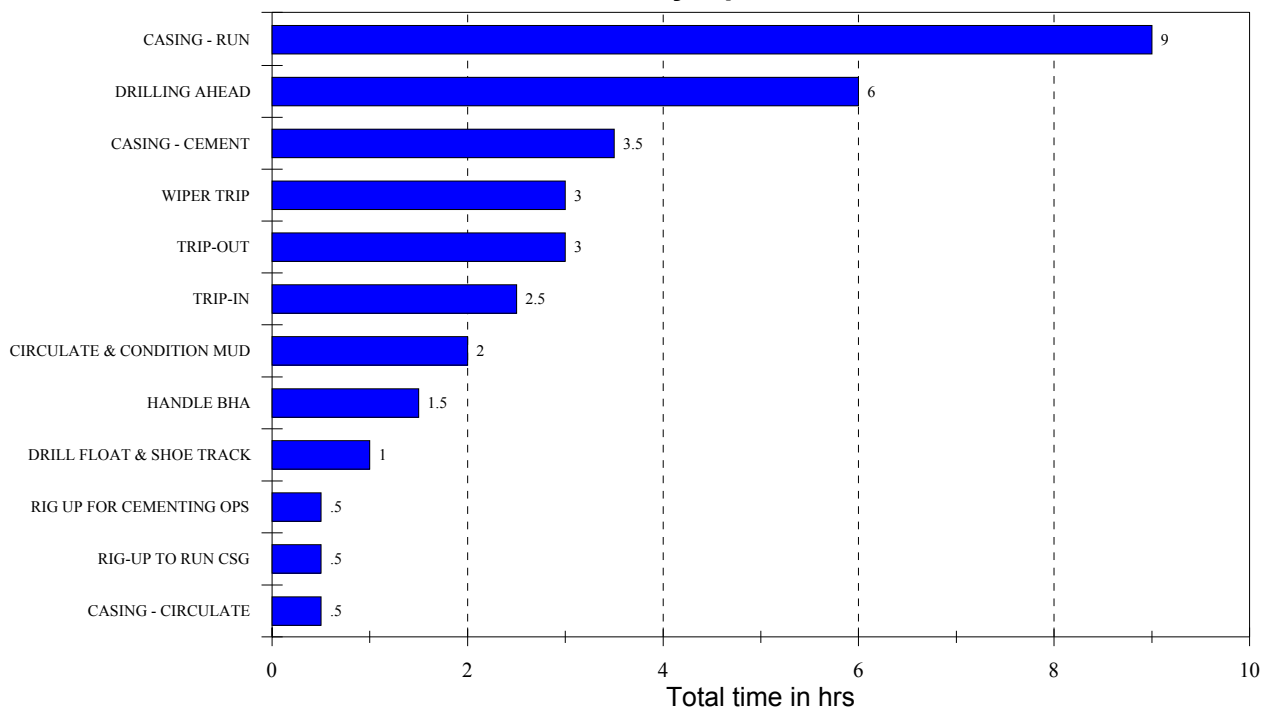
Workboats								Weather		Rig / Sea Data	
Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)	VISIBILITY(nm)	WIND SP. (kts)	RIS.TENS (klbs)	VDL (mt)
Pacific Conqueror	Standb:	220	0	184	137	0	0	15	30.0	0	1,764
Pacific Sentinel	Transit	105	1190	0	55	0	0	280	280	1.8	1.8
								1012	13.0	1.8	

Total move time (hrs)	14.50	Total prod. time since spud (hrs) :	33.00
Total time on well excluding move (hrs)	33.50	Total troub. time since spud (hrs)	0.50
		% Trouble time	1.49

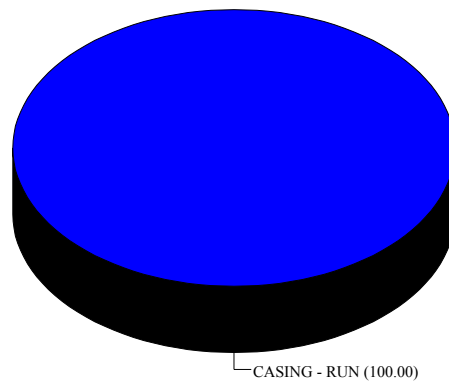
Productive Time by Op.



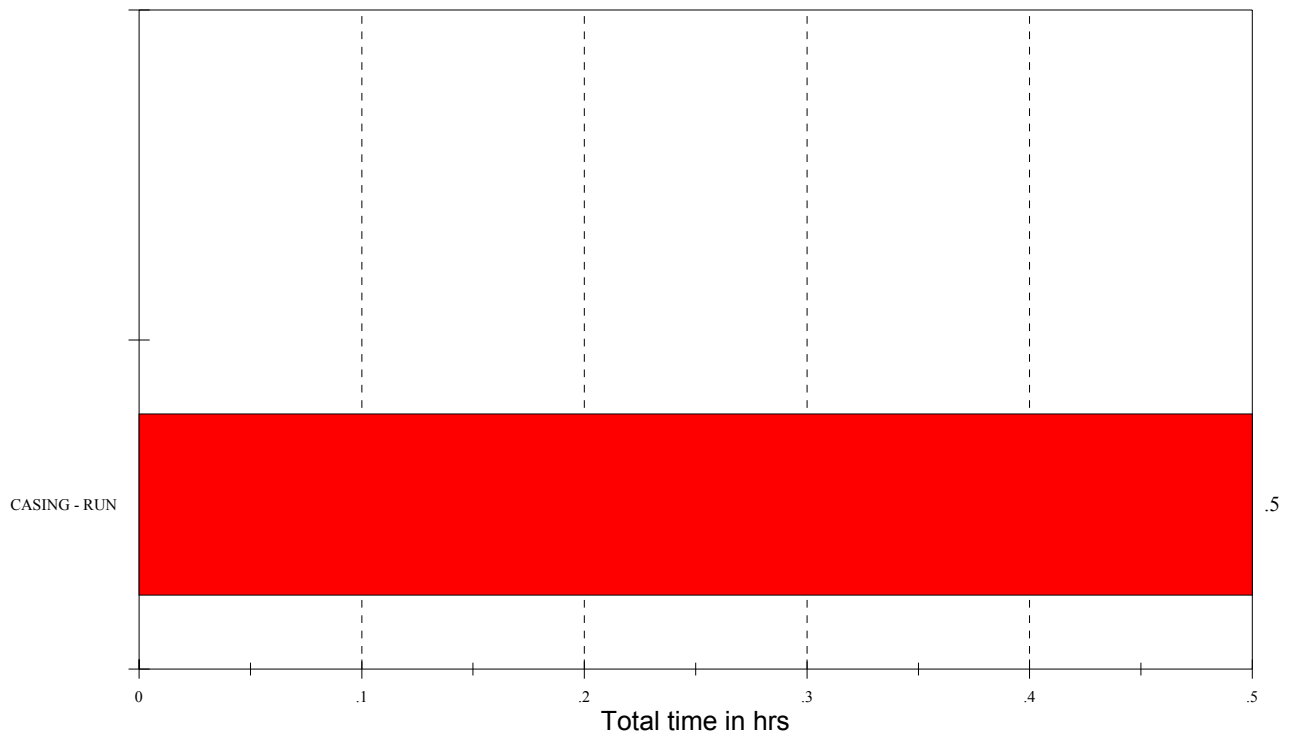
Productive time by Operation



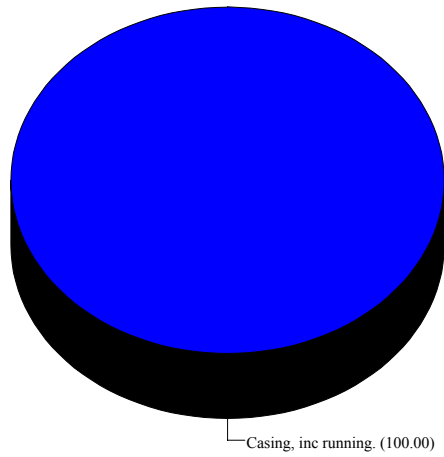
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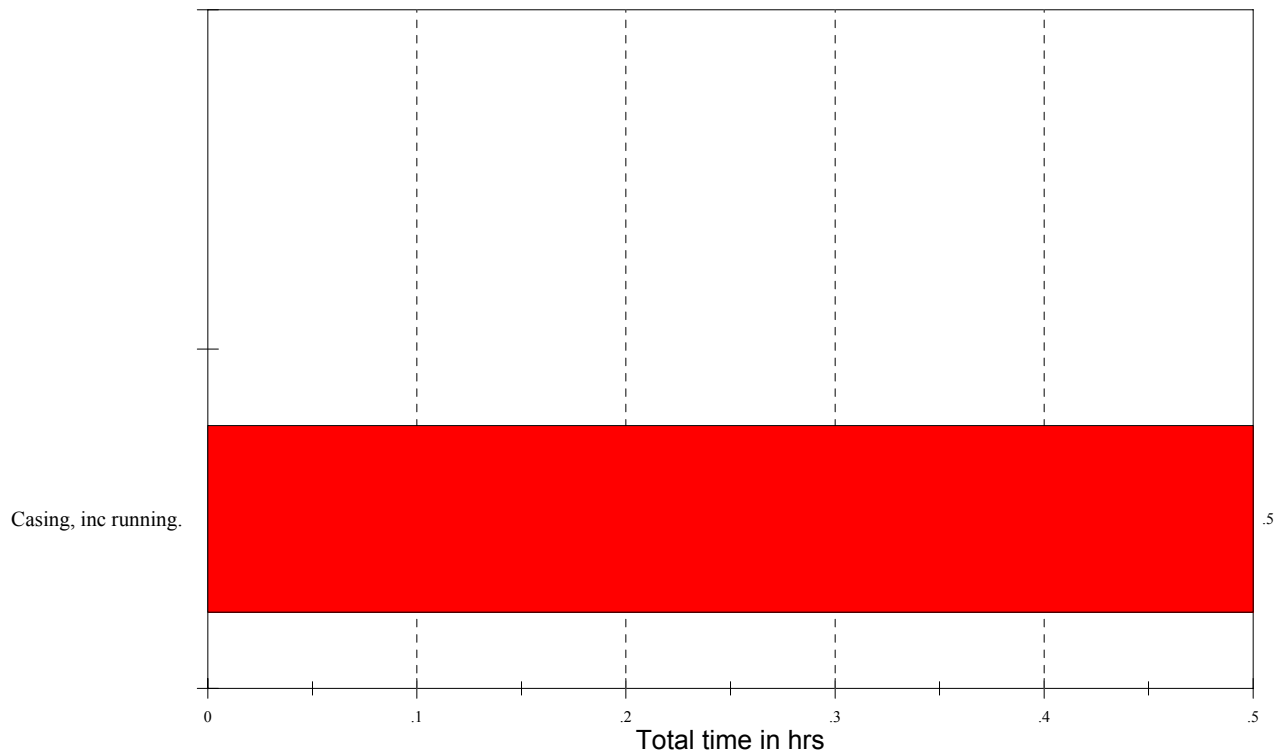
NPT by Operation



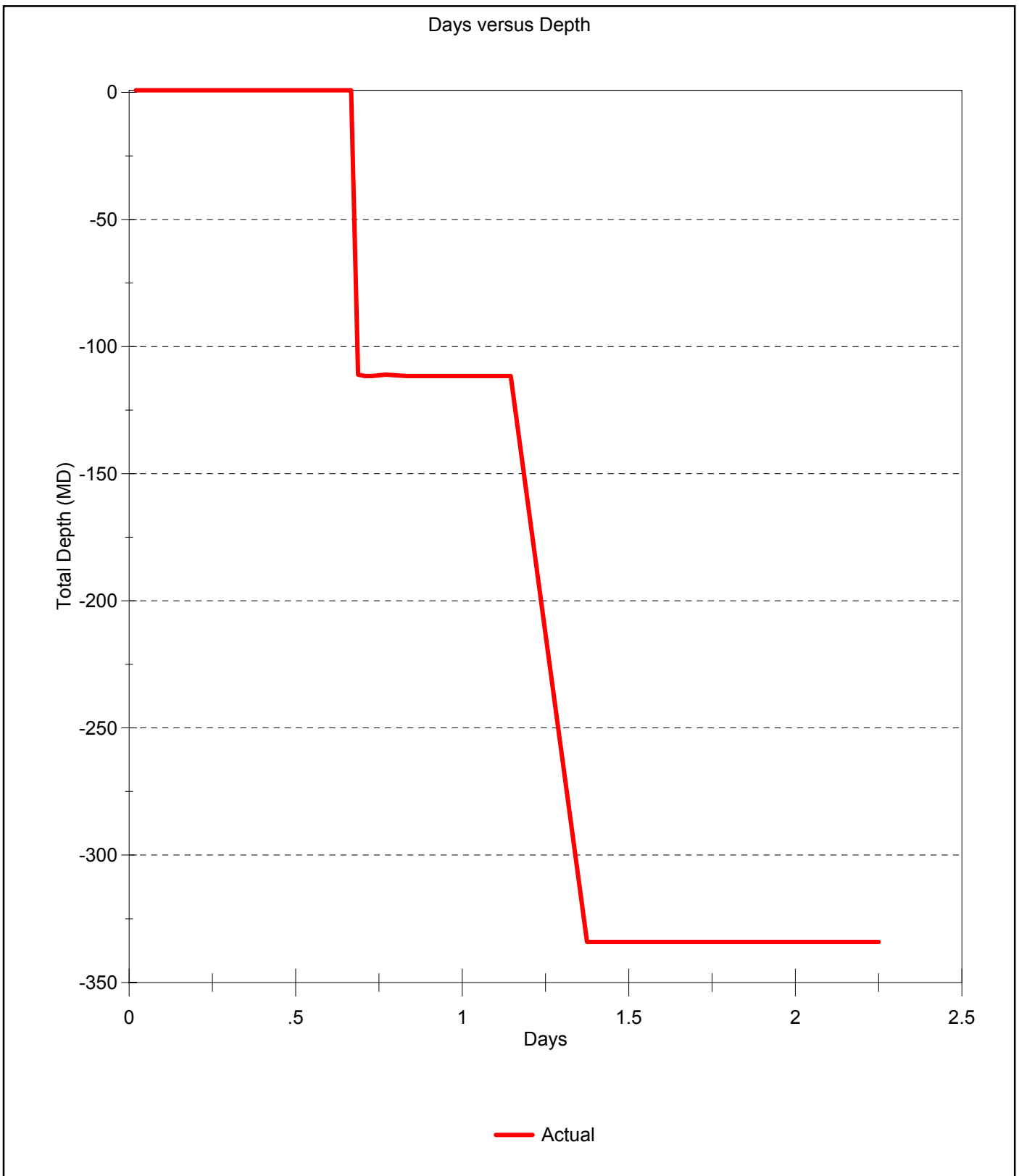
Root Cause Analysis



Root Cause Analysis



DEPTH @ 24:00 = 334.0m after 2.00 days since spud



DATE Jun 22, 2002

FROM : G. Howard / J. Kenrick
TO : C. Allport / S. Crocker

Patricia-2

VIC/L21

Well Data		DEPTH (mBRT)	334.0	CUR. HOLE SIZE (")	17.50	AFE COST \$	11,852,851
COUNTRY	AUSTRALIA	TVD (mBRT)	332.5	CASING OD (")	13.3/8 "	AFE BASIS :	C&S
FIELD	GIPPSLAND SUB-BASIN	PROGRESS (m)		SHOE TVD (mBRT)	326	DAILY COST :	\$357,491.00
DRILL CO.	DIAMOND OFFSHORE	DAYS ON WELL	3.00	FIT (sg)	0.00	CUM COST :	\$2,404,526.00
RIG	OCEAN BOUNTY	DAYS +/- CURVE	-2.20	LOT (sg)	0.00		
RT ABOVE SL (m)	25.0	CURRENT OP @ 0600 Running wear bushing.					
WATER DEPTH (m) LAT	52.5	PLANNED OP. Run in hole & drill shoetrack. Perform FIT. Drill build up section to section TD.					
RT TO SEABED (m)	77.5						

Summary of period 0000 to 2400 hrs

Ran & landed subsea Xmas Tree. Pressure tested to 3000psi. Ran BOP, LMRP & marine riser. Landed BOP & confirmed latched with 50K overpull.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 22, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
SC	P		CMC	00:00	01:30	1.50	334	Released setting tool. Pulled out & laid down setting tool.
SC	P		CMC	01:30	02:00	.50	334	Laid down cement head.
SC	P		XT	02:00	05:30	3.50	334	Rigged up to run subsea tree. Moved rig 10m off location. Made up running tool to tree & installed umbilical. Attached guide wires & lowered tree through moonpool.
SC	P		XT	05:30	07:00	1.50	334	Ran tree through splash zone. Positioned rig over location.
SC	P		XT	07:00	08:00	1.00	334	Lowered tree over 18.3/4" wellhead. Latched tree & confirmed with 50K overpull.
SC	P		XT	08:00	08:30	.50	334	Pressure tested AX gasket to 3000psi for 10 minutes against running tool & casing.
SC	P		XT	08:30	11:00	2.50	334	Released running tool. Pulled out running tool & control line umbilical.
SC	P		RR1	11:00	12:00	1.00	334	Rigged up to run marine riser.
SC	P		RR1	12:00	14:00	2.00	334	Picked up & racked back riser.
SC	P		BOP	14:00	15:30	1.50	334	Positioned BOP & LMRP over moonpool. Nippled up to riser & moved rig 15m off location.
SC	P		BOP	15:30	17:00	1.50	334	Function tested BOP & related equipment.
SC	P		RR1	17:00	17:30	.50	334	Ran BOP to splash zone.
SC	P		PT	17:30	18:00	.50	334	Pressure tested choke & kill lines to 200psi/500psi for 10 minutes.
SC	P		RR1	18:00	20:30	2.50	334	Picked up slip & landing joints. Installed goosenecks.
SC	P		PT	20:30	21:00	.50	334	Pressure tested goosenecks on choke & kill lines to 200psi/500psi for 10 minutes.
SC	P		RR1	21:00	23:30	2.50	334	Hooked up riser tensioner lines to slip joint.
SC	P		BOP	23:30	24:00	.50	334	Landed & latched BOP. Confirmed with 50K overpull.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jun 23, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
SC	P		BOP	00:00	00:30	.50	334	Pressure tested connector to 500psi/3000psi for 10 minutes against shear rams & casing.
SC	P		RR1	00:30	02:00	1.50	334	Nippled down & laid down landing joint.
SC	P		RR1	02:00	02:30	.50	334	Installed & latched diverter insert. Confirmed with 20K overpull.
SC	P		RR1	02:30	03:30	1.00	334	Rigged down riser handling equipment.
SC	P		HT	03:30	04:00	.50	334	Made up plug dropping cement head & racked back.
SC	P		HT	04:00	05:00	1.00	334	Made up 9.5/8" running tool & wiper plug crossover.
SC	P		HT	05:00	06:00	1.00	334	Ran & set wear bushing.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	12.0	Jun 20, 2002	Jun 20, 2002	12.0	0.50	0.0	0.0
RIG-UP/PRESPUD	2.5	Jun 20, 2002	Jun 20, 2002	14.5	0.60	0.0	0.0
CONDUCTOR HOLE	4.0	Jun 20, 2002	Jun 20, 2002	18.5	0.77	0.0	112.0
CONDUCTORS	5.5	Jun 20, 2002	Jun 20, 2002	24.0	1.00	112.0	112.0
SURFACE HOLE	15.0	Jun 21, 2002	Jun 21, 2002	39.0	1.63	112.0	334.0

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
SURFACE CASING	33.0	Jun 21, 2002	Jun 22, 2002	72.0	3.00	334.0	334.0

WBM Data		COST TODAY : \$36,771		CUM. WB MUD COST: \$52,275		CUM. WBM+OBM COST: \$52,275	
Type :	KCL/PHPA	VISCOCITY (sec/qt) :	100	API FLUID LOSS (cm3/30min) :	22	CI :	SOLIDS (%vol) :
FROM :	Pit	PV (cps):	22	FILTER CAKE (32nds inch) :	53	K+C*1000 :	H2O (%vol) :
TIME :	20:00	YP (lb100sq.ft):	53	HTHPFL (cm3/30min) :	20 28	HARD/Ca :	OIL (%vol) :
WEIGHT (sg) :	1.03	GEL10s/10m/100m (lb100sq.ft) :	20 28	HTHP CAKE (32nds inch) :	24 28 53	MBT (ppb) :	SAND :
TEMP (C) :		Fann 3/6/100 :	24 28 53			PM :	PH :
						PF :	PHPA (ppb) :
COMMENT: Built double strength base mud in active pits. KCL will be added when vessel arrives.							

Bit Data for Bit # . IADC #		Wear											
		I	O1	D	L	B	G	O2	R				
SIZE (") :		NOZZLES				Drilled over the last 24 hrs				Calculated over the bit run			
MANUFACTURER :	AVE WOB (k-lbs) :	X								METERAGE (m) :	0	CUM.METERAGE (m)	0
TYPE :	AVE RPM :	X								ON BOTTOM HRS :	.0	CUM. ON BOT. HRS :	.0
SERIAL # :	FLOW (gpm) :	X								IADC DRILL. HRS :	.0	CUM.IADC DRILL HRS:	.0
DEPTH IN (m RT) :	PUMP PRESS. (psi):	X								TOTAL REVS :	0	CUM.TOT. REVS :	0
DEPTH OUT (m RT) :	HSI (hp/sqi) :	0.000	X							ROP (m/hr):		ROP (m/hr):	

BHA # . Length (ft) :		D.C. (1) ANN. VELOCITY (mpm):		0	
WT BLW JAR(k-lbs):	STRING WT(k-lbs) :	TRQE MAX (ft-lbs):	D.C. (2) ANN VELOCITY (mpm):	0	
BHA WT(k-lbs) :	PICK UP WT(k-lbs) :	TRQE ON (ft-lbs):	H.W.D.P. ANN VELOCITY (mpm):	0	
	SLK OFF WT(k-lbs) :	TRQE OFF (ft-lbs):	D.P. ANN VELOCITY (mpm) :	0	
BHA DESCRIPTION :					
TOOL DESCRIPTION		HRS	SERIAL #	COMMENT	

Survey		MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/30m)	N/S (m)	E/W (m)	TOOL TYPE
Last Tool Type :	Projection	251	251	6.36	248.	248.3	1.8	3.90	0.9	-3.0	MWD
Magnetic Declination :	0.00	280	280	10.56	243.	243.2	5.9	4.36	-0.9	-6.9	MWD
Survey method :	Min Curvature	315	314	11.75	244.	244.1	12.5	1.04	-3.9	-12.9	MWD
		334	332	11.75	244.	244.1	16.3	0.00	-5.6	-16.4	Projection

Bulk Stocks On Rig				
STOCK TYPE	START	USED	REC'D	STOCK
Barite	SX	436		436
Bentonite	SX	1546		1546
G-neat	SX	1685	836	849
G+35% SiFI	SX			0
G+BFS+12.25% SiFI	SX			0
Pot Water	M3	98	27	98
Drill Water	M3	732	148	584
Heli-fuel	ltr	643		643
Base Oil	M3			0
Rig Fuel	M3	500	11	489
Brine	M3			0

Pump Data										
Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National 1	6.00		97						
2	National 1	6.00		97						
3	National 1	6.00		97						

Casing						
DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
13.3/8 "	13.375	327.1	325.6			Mixed & pumped 95bbls 12.5ppg lead slurry followed by 100bbls 15.9ppg tail slurry. Displaced with seawater to 50% shoetrack volume. Plug did not bump.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
Cameron 18.3/4" Wellhead Joint	12.00	18.000	205.0	X-56	BTC
Crossover	12.27	12.415	68.0	K55	BTC
16 x Intermediate Joints	190.79	12.415	68.0	K55	BTC
Float Joint	12.42	12.415	68.0	K55	BTC
Intermediate Joint	11.73	12.415	68.0	K55	BTC
Shoe Joint	12.61	12.415	68.0	K55	BTC

Personnel : on Site =97			
JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	G. Howard	OMV	6
Drilling Supervisor	J. Kenrick	Service Company	30
Sub Sea Engineer	W. Bates	Diamond Offshore	53
Drilling Engineer	P. Zehetleitner	Catering	8
Geologist	R. Tolliday		
Geologist	P. Boothby		

Safety, Inspections and Drills Summary

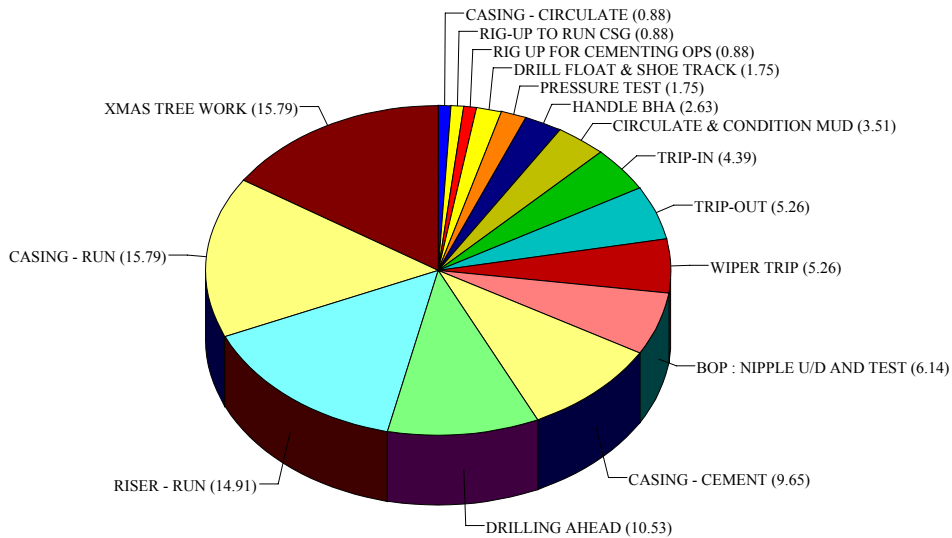
Shakers, Volumes and Losses Data				ENGINEER G. Garrick / D. Dixon	
SHAKER 1	4 x 84	VOLUME AVAILABLE (bbl) = 485 ACTIVE MIXING HOLE SLUG RESERVE 485 HEAVY	LOSSES (bbl) = 0 DOWNHOLE SURF. + EQUIP 0.00 DUMPED	COMMENTS Mixed polymers for next hole section.	
SHAKER 2	4 x 84				
SHAKER 3	4 x 84				
SHAKER 4	4 x 84				
SHAKER 5	4 x 84				

Anchor	A 1	350	A 2	275	A 3	190	A 4	390	A 5	150
	A 6	205	A 7	210	A 8	205				

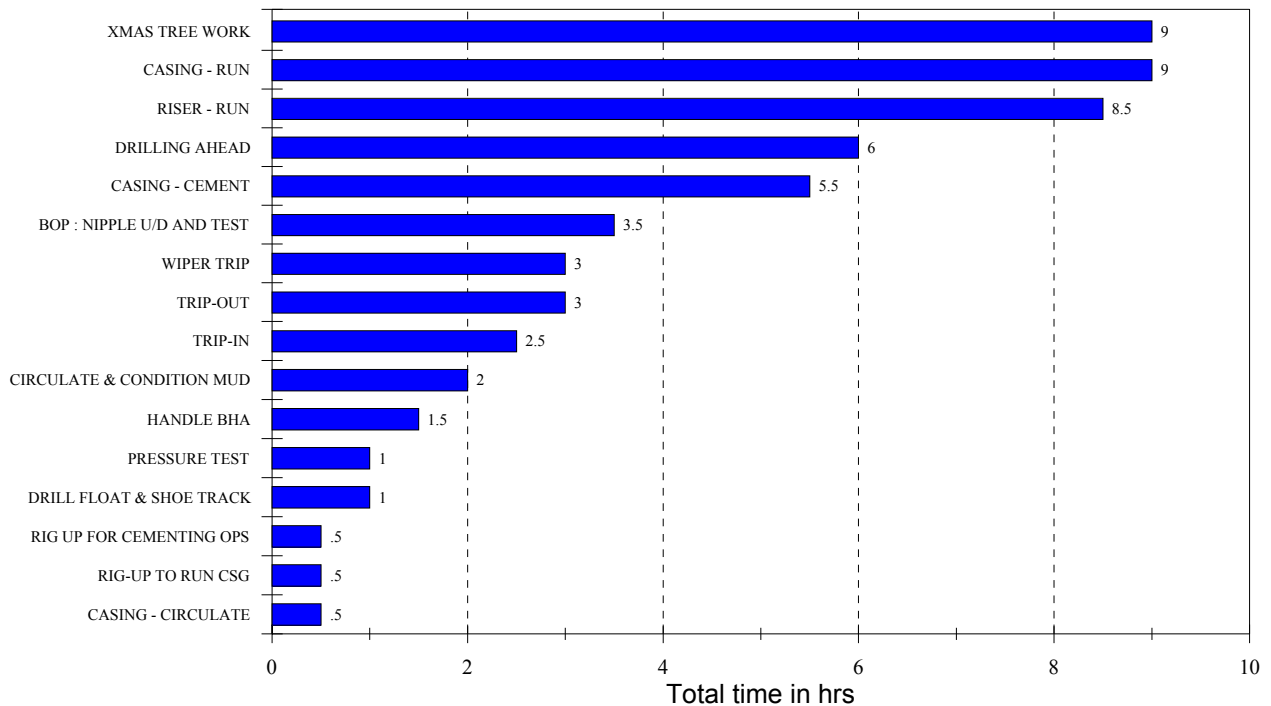
Workboats								Weather		Rig / Sea Data	
Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)	VISIBILITY(nm)	WIND SP. (kts)	RIS.TENS (klbs)	
Pacific Conqueror	Standb.	212	0	184	132	0	0	12	30.0	0	1,975
Pacific Sentinel	Transit	105	1190	0	55	0	0	260	260	2.4	1.8
								1018	13.0		

Total move time (hrs)	14.50	Total prod. time since spud (hrs) :	57.00
Total time on well excluding move (hrs)	57.50	Total troub. time since spud (hrs)	0.50
		% Trouble time	0.87

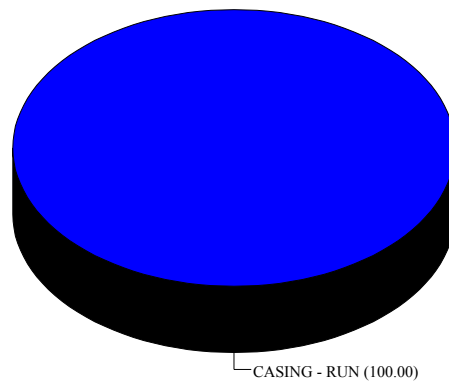
Productive Time by Op.



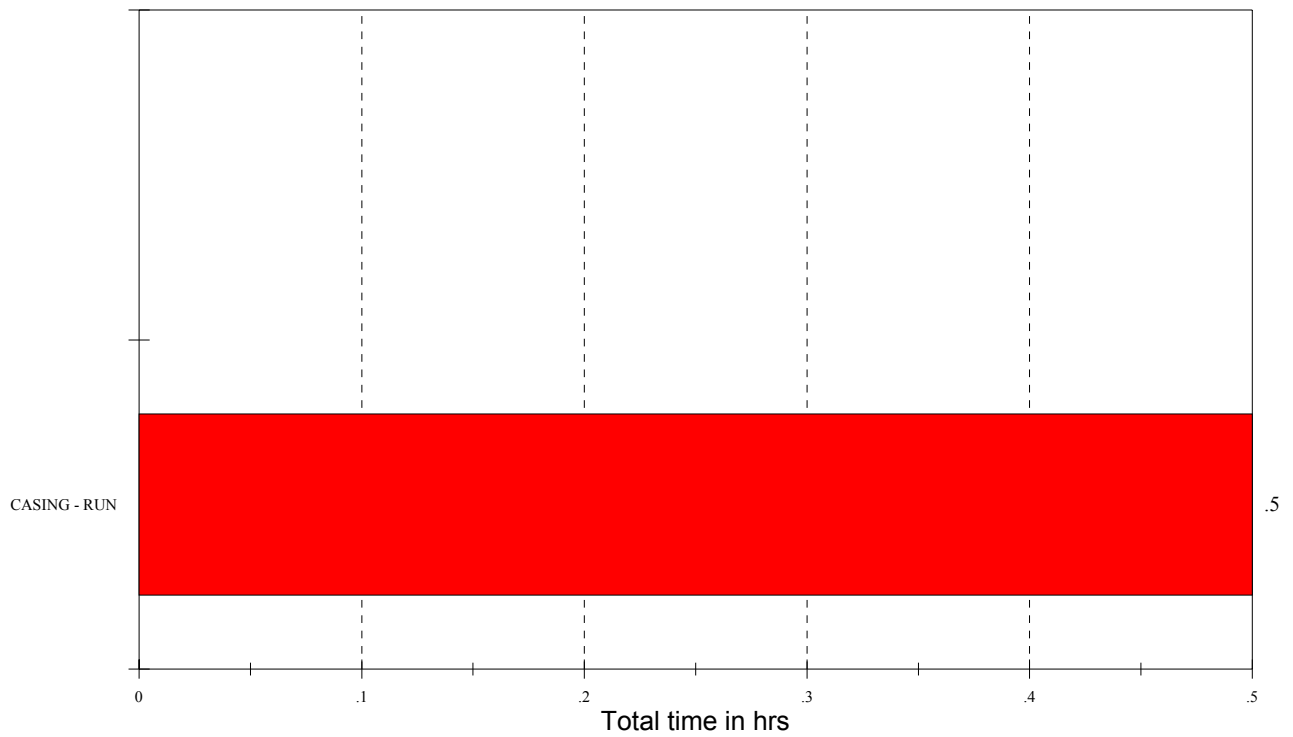
Productive time by Operation



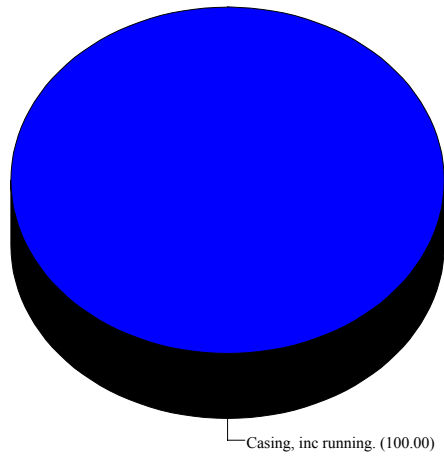
Trouble Time by Op.



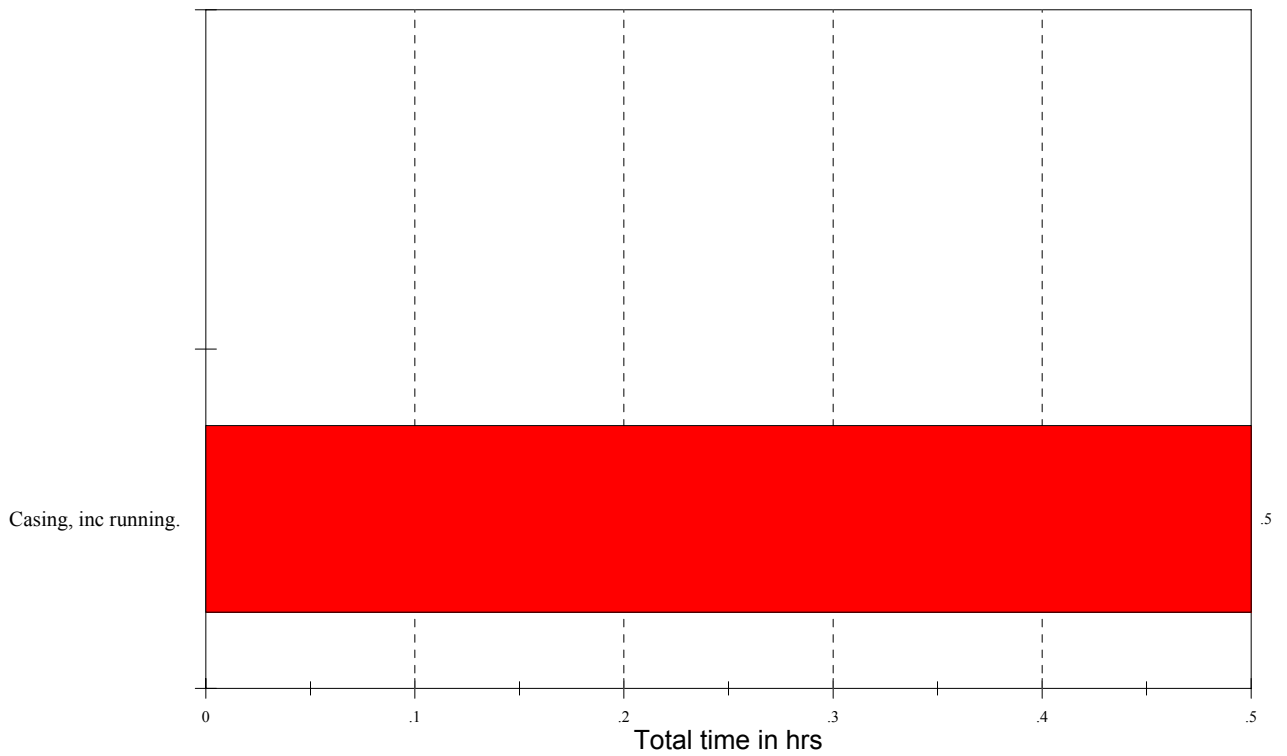
NPT by Operation



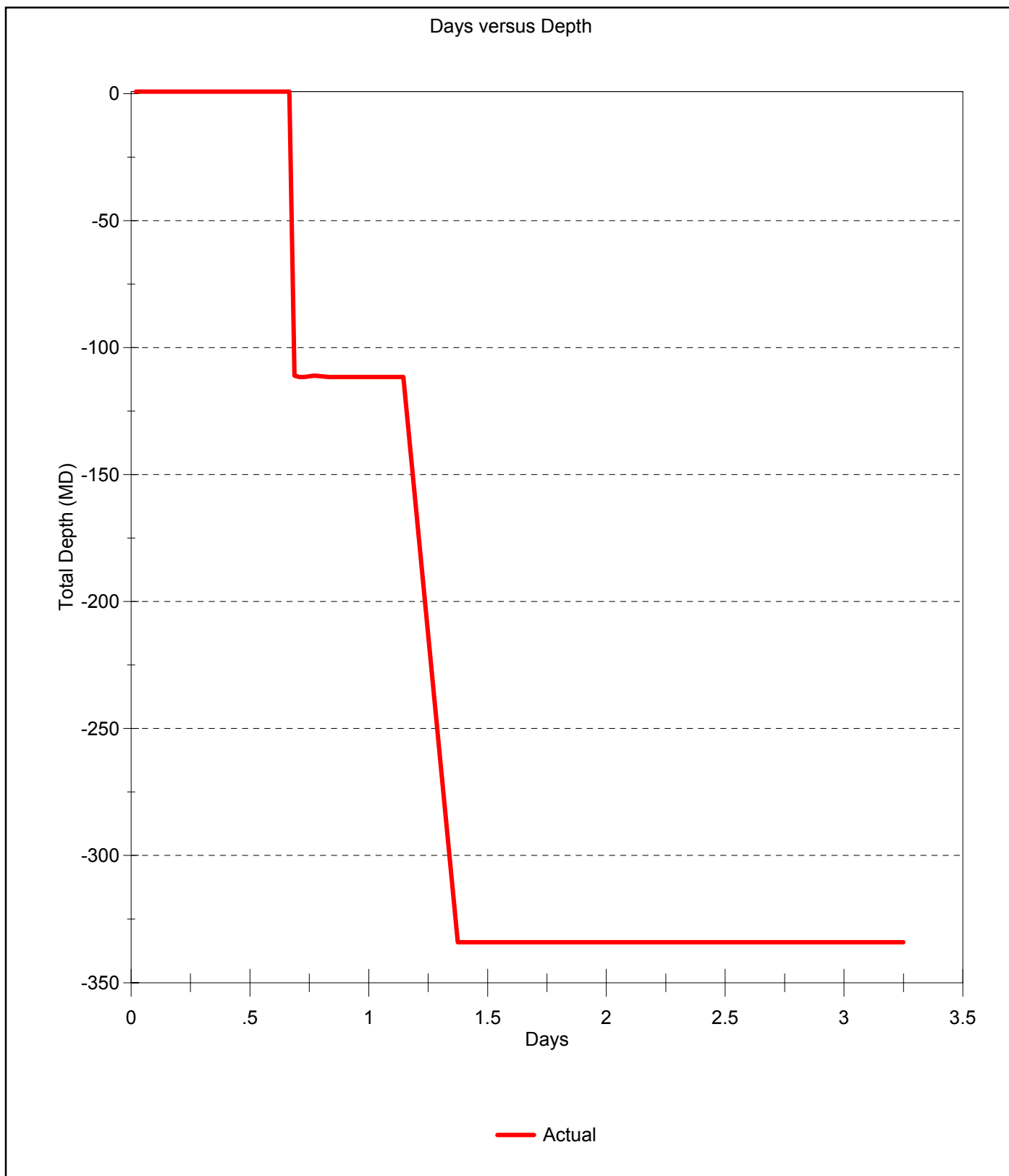
Root Cause Analysis



Root Cause Analysis



DEPTH @ 24:00 = 334.0m after 3.00 days since spud



DATE Jun 23, 2002

FROM : G. Howard / J. Kenrick
TO : C. Allport / S. Crocker

Patricia-2

VIC/L21

Well Data		DEPTH (mBRT)	404.0	CUR. HOLE SIZE (")	12.50	AFE COST \$	11,852,851
COUNTRY	AUSTRALIA	TVD (mBRT)	400.7	CASING OD (")	13.3/8 "	AFE BASIS :	C&S
FIELD	GIPPSLAND SUB-BASIN	PROGRESS (m)	70.0	SHOE TVD (mBRT)	326	DAILY COST :	\$380,252.00
DRILL CO.	DIAMOND OFFSHORE	DAYS ON WELL	4.00	FIT (sg)	0.00	CUM COST :	\$2,784,778.00
RIG	OCEAN BOUNTY	DAYS +/- CURVE	-2.60	LOT (sg)	0.00		
RT ABOVE SL (m)	25.0	CURRENT OP @ 0600 Drilling 12.1/4" build section.					
WATER DEPTH (m) LAT	52.5	PLANNED OP. Drill to top of Gurnard. Pull out of hole to run casing					
RT TO SEABED (m)	77.5						

Summary of period 0000 to 2400 hrs

Pressure tested BOP connector. Laid down landing joint & rigged up diverter. Made up 12.1/4" BHA. Ran in hole & drilled out shoetrack. Performed FIT to 1.73SG. Drilled 12.1/4" build section.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 23, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
SC	P		BOP	00:00	00:30	.50	334	Pressure tested connector to 500psi/3000psi for 10 minutes against shear rams & casing.
SC	P		RR1	00:30	02:00	1.50	334	Nippled down & laid down landing joint.
SC	P		RR1	02:00	02:30	.50	334	Installed & latched diverter insert. Confirmed with 20K overpull.
SC	P		RR1	02:30	03:30	1.00	334	Rigged down riser handling equipment.
SC	P		HT	03:30	04:00	.50	334	Made up plug dropping cement head & racked back.
SC	P		HT	04:00	05:00	1.00	334	Made up 9.5/8" running tool & wiper plug crossover.
SC	P		HT	05:00	05:30	.50	334	Made up wear bushing running tool & wear bushing.
SC	P		HT	05:30	06:30	1.00	334	Ran in hole & set wear bushing.
SC	P		HT	06:30	07:00	.50	334	Pulled out of hole & laid down setting tool.
SC	P		HBHA	07:00	08:00	1.00	334	Laid down 17.1/2" BHA.
IH1	P		HBHA	08:00	10:00	2.00	334	Picked up & made up 8" Mud Motor & MWD. Made up 12.1/4" bit. Confidence tested MWD & racked back assembly.
IH1	P		RS	10:00	10:30	.50	334	Serviced TDS & related equipment.
IH1	P		TI	10:30	11:00	.50	334	Held safety meeting prior to drilling ahead.
IH1	P		TI	11:00	12:00	1.00	334	Ran in hole with BHA.
IH1	P		BOP	12:00	12:30	.50	334	Closed diverter. Flushed diverter lines & checked diverter system.
IH1	P		TI	12:30	13:30	1.00	334	Ran in hole to 200m.
IH1	P		BOP	13:30	14:00	.50	334	Closed upper annular preventer. Pressure tested LMRP connector to 2500psi for 10 minutes.
IH1	P		TI	14:00	14:30	.50	334	Ran in hole to top of cement at 300m.
IH1	P		DC	14:30	16:30	2.00	334	Drilled cement plugs & shoetrack. Cleaned out pocket cement to 334m.
IH1	P		CMD	16:30	17:30	1.00	337	Drilled 12.1/4" hole from 334m to 337m. Displaced well hole to 1.06 SG KCL/PHPA mud. Pulled back to shoe & circulated to balanced mud.
IH1	P		LOT	17:30	18:30	1.00	337	Performed FIT to an EMW of 1.73SG.
IH1	P		DA	18:30	24:00	5.50	404	Drilled 12.1/4" hole from 337m to 404m. (400.73m TVD)

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jun 24, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
IH1	P		DA	00:00	06:00	6.00	497	Drilled 12.1/4" hole from 404m to 497m. (490.15m TVD)

Phase Analysis		Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE		12.0	Jun 20, 2002	Jun 20, 2002	12.0	0.50	0.0	0.0
RIG-UP/PRESPUD		2.5	Jun 20, 2002	Jun 20, 2002	14.5	0.60	0.0	0.0
CONDUCTOR HOLE		4.0	Jun 20, 2002	Jun 20, 2002	18.5	0.77	0.0	112.0
CONDUCTORS		5.5	Jun 20, 2002	Jun 20, 2002	24.0	1.00	112.0	112.0
SURFACE HOLE		15.0	Jun 21, 2002	Jun 21, 2002	39.0	1.63	112.0	334.0

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
SURFACE CASING	41.0	Jun 21, 2002	Jun 23, 2002	80.0	3.33	334.0	334.0
INTERMEDIATE HOLE (1)	16.0	Jun 23, 2002	Jun 23, 2002	96.0	4.00	334.0	404.0

WBM Data		COST TODAY : \$19,249		CUM. WB MUD COST: \$71,524		CUM. WBM+OBM COST: \$71,524	
Type :	KCL/PHPA	VISCOCITY (sec/qt) :	55	API FLUID LOSS (cm3/30min) :	6	CI :	42,000
FROM :	Pit	PV (cps):	10	FILIER CAKE (32nds inch) :	1	K+C*1000 :	28000
TIME :	22:30	YP (lb100sq.ft):	20	HHPFL (cm3/30min) :		HARD/Ca :	1,200
WEIGHT (sg) :	1.06	GEL 10s/10m/100m (lb100sq.ft) :	8 10 3	HTHP CAKE (32nds inch) :		MBT (ppb) :	1.0
TEMP (C) :	23	Fann 3/6/100 :	7 9 19			PM :	.3
						PF :	.2
						SOLIDS (%vol) :	2.5
						H2O (%vol) :	97.5
						OIL (%vol) :	0
						SAND :	0
						PH :	9.0
						PHPA (ppb) :	1.0

COMMENT: Diluted premix & displaced hole to mud. Built reserve for dilution if needed.

Bit Data for Bit # 3 IADC # 1 3 7 M				Wear											
				I	O1	D	L	B	G	O2	R				
SIZE (") :	12.50			NOZZLES				Drilled over the last 24 hrs				Calculated over the bit run			
MANUFACTURER :	Reed	AVE WOB (k-lbs) :	10	3 X15	METERAGE (m) :			70	CUM.METERAGE (m)			70			
TYPE :	MHT 13GC	AVE RPM :	200	1 X24	ON BOTTOM HRS :			3.9	CUM. ON BOT. HRS :			3.9			
SERIAL # :	NL5007	FLOW (gpm) :	859	X	IADC DRILL. HRS :			6.5	CUM.IADC DRILL HRS:			6.5			
DEPTH IN (m RT) :	334	PUMP PRESS. (psi):	1,420	X	TOTAL REVS :			46,800	CUM.TOT. REVS :			46,800			
DEPTH OUT (m RT) :		HSI (hp/sqi) :	0.313	X	ROP (m/hr):			10.8	ROP (m/hr):			10.8			

BHA # 3 Length (ft) :88.1				D.C. (1) ANN. VELOCITY (mpm):				0			
WT BLW JAR(k-lbs):	15	STRING WT(k-lbs) :	190	TRQE MAX (ft-lbs):	2,000	D.C. (2) ANN VELOCITY (mpm):	0				
BHA WT(k-lbs) :	89	PICK UP WT(k-lbs) :	190	TRQE ON (ft-lbs):	3,000	H.W.D.P. ANN VELOCITY (mpm):	0				
		SLK OFF WT(k-lbs) :	190	TRQE OFF (ft-lbs):	1,500	D.P. ANN VELOCITY (mpm) :	0				

BHA DESCRIPTION : 12.1/4" Bit, 8" Motor, 8 " RLL, 8" MPT, Float Sub, Crossover, 3 x 5" Hevi Wate Drill Pipe, Drilling Jar, 3 x Hevi Wate Drill Pipe.

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT
8" Mud Motor	6.5	800052	
8" RLL	6.5	DM151HGVR	
8" MPT	6.5	DM01535KF8	
6.1/2" Drilling Jar	6.5	MHA00211	

Survey		MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	"V" SECT (m)	DOGLEG (deg/30m)	N/S (m)	E/W (m)	TOOL TYPE
Last Tool Type :	MWD	382	380	13.44	229.	229.9	26.6	1.99	-11.6	-24.8	MWD
Magnetic Declination :	0.00	412	408	14.45	228.	228.7	33.7	1.08	-16.2	-30.1	MWD
Survey method :	Min Curvature	436	432	15.75	229.	229.4	40.1	1.59	-20.4	-35.0	MWD
		464	458	16.45	229.	229.9	47.7	0.79	-25.3	-40.8	MWD

Bulk Stocks On Rig				
STOCK TYPE	START	USED	REC'D	STOCK
Barite	SX	436		436
Bentonite	SX	1546		1546
G-neat	SX	849	1800	2649
G+35% SiFI	SX			0
G+BFS+12.25% SiFI	SX			0
Pot Water	M3	98	26	98
Drill Water	M3	584	8	576
Heli-fuel	ltr	643	105	3000
Base Oil	M3			0
Rig Fuel	M3	489	11	478
Brine	M3		64	64

Pump Data										
Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National 1	6.00	67	97	286	1420	30	75	337	8.7
2	National 1	6.00	67	97	286	1420	40	100	337	8.7
3	National 1	6.00	67	97	286	1420	50	175	337	8.7

Casing						
DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
13.3/8 "	13.375	327.1	325.6			Mixed & pumped 95bbls 12.5ppg lead slurry followed by 100bbls 15.9ppg tail slurry. Displaced with seawater to 50% shoetrack volume. Plug did not bump.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
Cameron 18.3/4" Wellhead Joint	12.00	18.000	205.0	X-56	BTC
Crossover	12.27	12.415	68.0	K55	BTC
16 x Intermediate Joints	190.79	12.415	68.0	K55	BTC
Float Joint	12.42	12.415	68.0	K55	BTC
Intermediate Joint	11.73	12.415	68.0	K55	BTC
Shoe Joint	12.61	12.415	68.0	K55	BTC

Personnel : on Site =89

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	G. Howard	OMV	5
Drilling Supervisor	J. Kenrick	Service Company	23
Drilling Engineer	P. Zehetleitner	Diamond Offshore	53
Geologist	R. Tolliday	Catering	8
Geologist	P. Boothby		

Safety, Inspections and Drills Summary

Shakers, Volumes and Losses Data

ENGINEER G. Garrick / D. Dixon

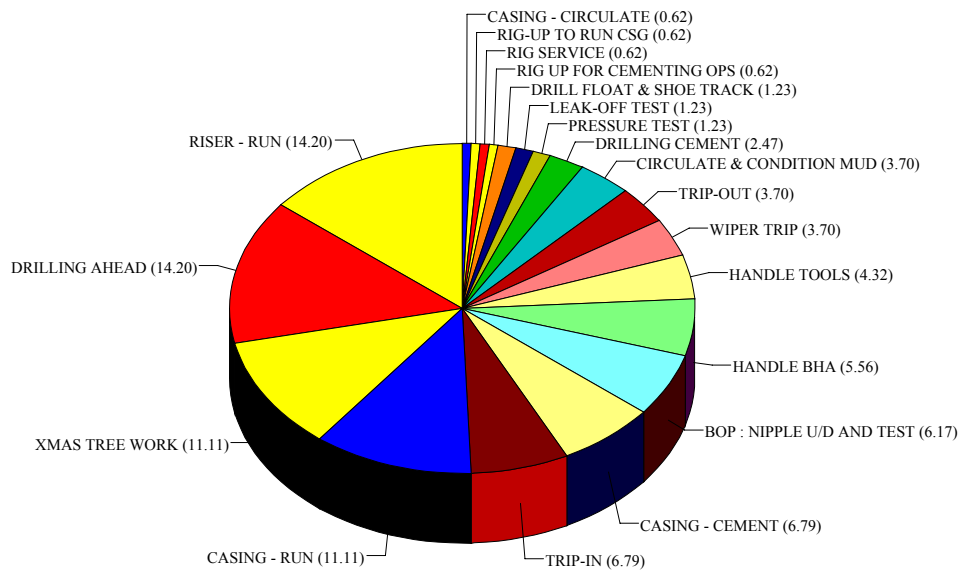
SHAKER	Configuration	VOLUME AVAILABLE (bbl) =		LOSSES (bbl) =	COMMENTS
SHAKER 1	4 x 84	1467		12	
SHAKER 2	4 x 84	ACTIVE	515	MIXING	
SHAKER 3	4 x 84	HOLE	242	SLUG	
SHAKER 4	4 x 84	RESERVE	710	HEAVY	
SHAKER 5	4 x 84				

Anchor	A 1	A 2	A 3	A 4	A 5
	330	250	170	345	155
	A 6 215	A 7 205	A 8 200		

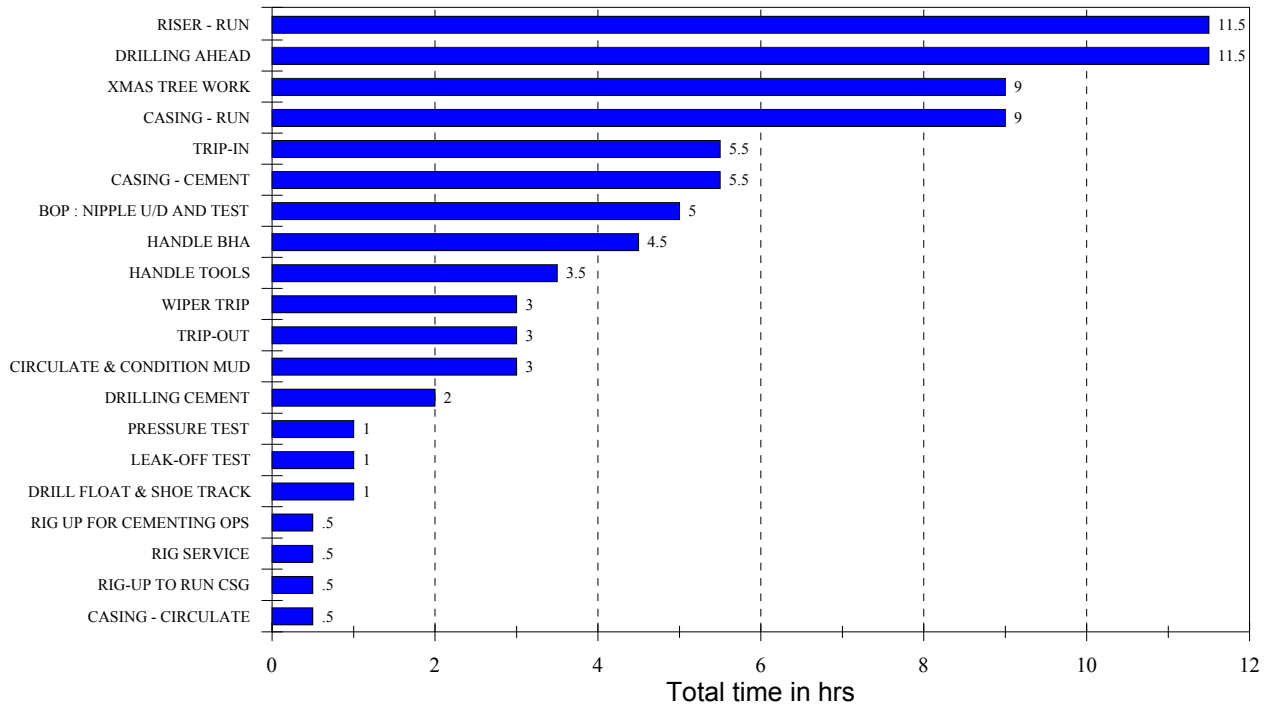
Workboats									Weather		Rig / Sea Data	
	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)	VISIBILITY(nm)	WIND SP. (kts)	RIS.TENS (klbs)	VDL (mt)
Pacific Conqueror	Transit	205	0	184	127	0	0	0	12	20.0	232	2,093
Pacific Sentinel	Standb:	364	1190	530	174	0	300	0	270	1019	0.9	1.8
									PRES.(mbars)	AIR TEMP (C)		
									13.0			

Total move time (hrs)	14.50	Total prod. time since spud (hrs) :	81.00
Total time on well excluding move (hrs)	81.50	Total troub. time since spud (hrs)	0.50
		% Trouble time	0.61

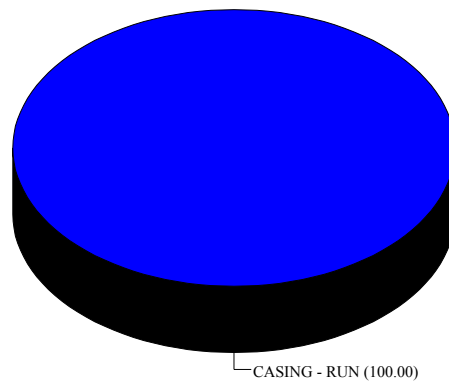
Productive Time by Op.



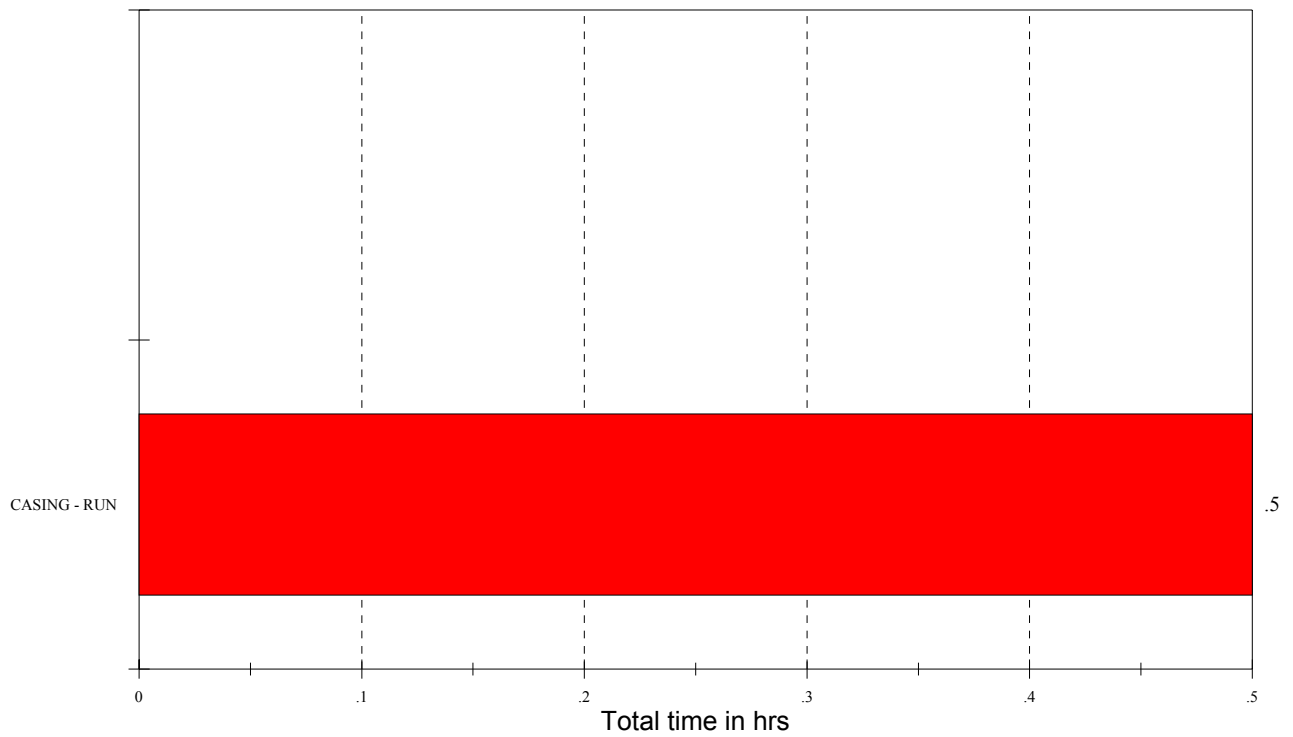
Productive time by Operation



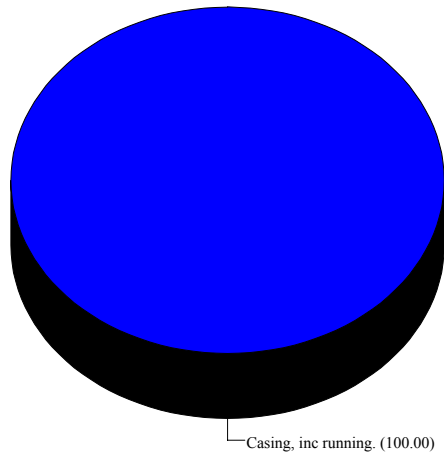
Trouble Time by Op.



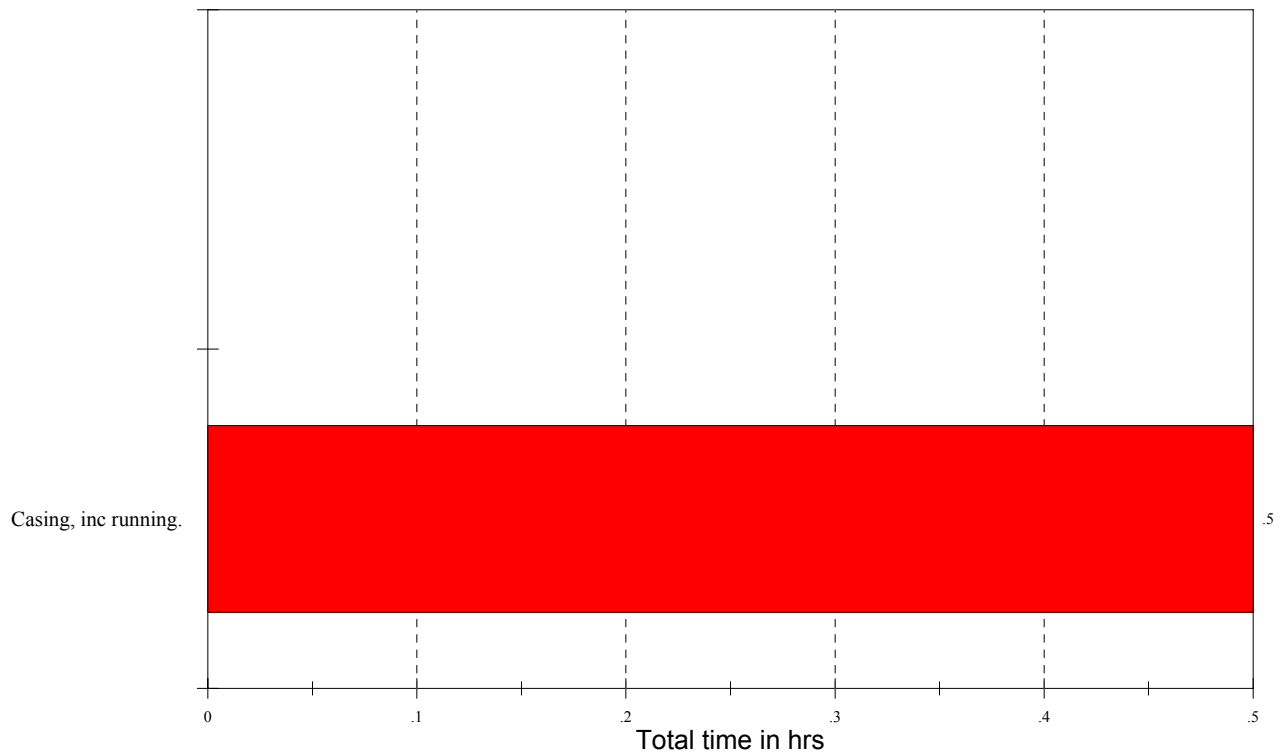
NPT by Operation



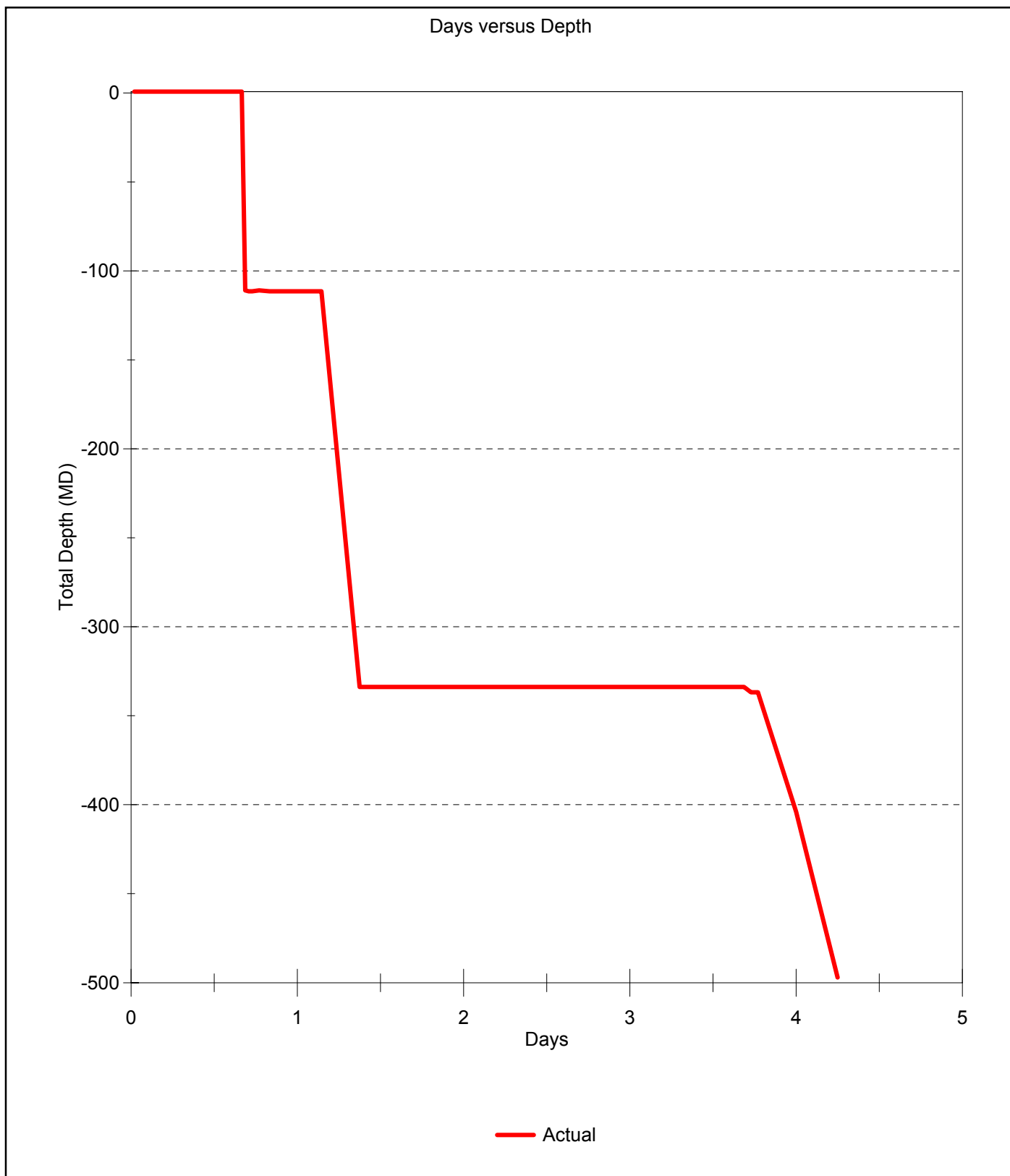
Root Cause Analysis



Root Cause Analysis



DEPTH @ 24:00 = 404.0m after 4.00 days since spud



OMV Australia

DAILY DRILLING REPORT # 5

DATE Jun 24, 2002

FROM : G. Howard / J. Kenrick
TO : C. Allport / S. Crocker

Patricia-2

VIC/L21

Well Data		DEPTH (mBRT)	708.0	CUR. HOLE SIZE (")	12.50	AFE COST \$	11,852,851
COUNTRY	AUSTRALIA	TVD (mBRT)	646.6	CASING OD (")	13.3/8 "	AFE BASIS :	C&S
FIELD	GIPPSLAND SUB-BASIN	PROGRESS (m)	304.0	SHOE TVD (mBRT)	326	DAILY COST :	\$398,290.00
DRILL CO.	DIAMOND OFFSHORE	DAYS ON WELL	5.00	FIT (sg)	1.73	CUM COST :	\$3,183,068.00
RIG	OCEAN BOUNTY	DAYS +/- CURVE	-2.10	LOT (sg)	0.00		
RT ABOVE SL (m)	25.0	CURRENT OP @ 0600 Drilling 12.1/4" build section.					
WATER DEPTH (m) LAT	52.5	PLANNED OP. Drill to top of Gurnard. Pull out of hole to run casing.					
RT TO SEABED (m)	77.5						

Summary of period 0000 to 2400 hrs
Drilled 12.1/4" build section from 404m to 708m.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 24, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
IH1	P		DA	00:00	24:00	24.00	708	Drilled 12.1/4" hole from 404m to 708m. (646.60m TVD)

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jun 25, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
IH1	P		DA	00:00	06:00	6.00	827	Drilled 12.1/4" hole from 708m to 827m. (696m TVD)

Phase Analysis		Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE		12.0	Jun 20, 2002	Jun 20, 2002	12.0	0.50	0.0	0.0
RIG-UP/PRESPUD		2.5	Jun 20, 2002	Jun 20, 2002	14.5	0.60	0.0	0.0
CONDUCTOR HOLE		4.0	Jun 20, 2002	Jun 20, 2002	18.5	0.77	0.0	112.0
CONDUCTORS		5.5	Jun 20, 2002	Jun 20, 2002	24.0	1.00	112.0	112.0
SURFACE HOLE		15.0	Jun 21, 2002	Jun 21, 2002	39.0	1.63	112.0	334.0
SURFACE CASING		41.0	Jun 21, 2002	Jun 23, 2002	80.0	3.33	334.0	334.0
INTERMEDIATE HOLE (1)		40.0	Jun 23, 2002	Jun 24, 2002	120.0	5.00	334.0	708.0

WBM Data	COST TODAY : \$19,065	CUM. WB MUD COST: \$90,589	CUM. WBM+OBM COST: \$90,589
Type :	VISCOCITY (sec/qt) : 54	API FLUID LOSS (cm3/30min) : 5	CI : 35,000
KCL/PHPA	PV (cps) : 12	FILTER CAKE (32nds inch) : 1	K+C*1000 : 28000
FROM : Pit	YP (lb100sq.ft) : 29	HTHPFL (cm3/30min) : 11 14 3	HARD/Ca : 1,180
TIME : 22:30	GEL10s/10m/100m (lb100sq.ft) : 11 14 3	HTHP CAKE (32nds inch) : 10 12 27	MBT (ppb) : 2.5
WEIGHT (sg) : 1.08	Fann 3/6/100 : 10 12 27		PM : .1
TEMP (C) : 46			PF : .2
			SOLIDS (%vol) : 5
			H2O (%vol) : 92.0
			OIL (%vol) : 3
			SAND : 0.2
			PH : 8.7
			PHPA (ppb) : .8
COMMENT: Added premix to active system to maintain volume. Treated sytem with Glydril, Polyplus & Duotec.			

Bit Data for Bit # 3 IADC # 1 3 5 M	Wear	I	O1	D	L	B	G	O2	R
SIZE (") : 12.50	NOZZLES								
MANUFACTURER : Reed	3 X15	Drilled over the last 24 hrs		Calculated over the bit run					
TYPE : MHT 13GC	1 X24	METERAGE (m) :	304	CUM.METERAGE (m)	374				
SERIAL # : NL5007	X	ON BOTTOM HRS :	18.4	CUM. ON BOT. HRS :	22.3				
DEPTH IN (m RT) : 334	X	IADC DRILL. HRS :	24.0	CUM.IADC DRILL HRS :	30.5				
DEPTH OUT (m RT) :	X	TOTAL REVS :	220,800	CUM.TOT. REVS :	267,600				
		ROP (m/hr) :	12.7	ROP (m/hr) :	12.3				

BHA #3 Length (ft) :88.1	D.C. (1) ANN. VELOCITY (mpm) :	70
WT BLW JAR(k-lbs) : 15	D.C. (2) ANN VELOCITY (mpm) :	70
BHA WT(k-lbs) : 89	H.W.D.P. ANN VELOCITY (mpm) :	49
STRING WT(k-lbs) : 225	D.P. ANN VELOCITY (mpm) :	49
PICK UP WT(k-lbs) : 230		
SLK OFF WT(k-lbs) : 220		
TRQE MAX (ft-lbs) : 2,000		
TRQE ON (ft-lbs) : 3,000		
TRQE OFF (ft-lbs) : 1,500		

BHA DESCRIPTION : 12.1/4" Bit, 8" Motor, 8" RLL, 8" MPT, Float Sub, Crossover, 3 x 5" Hevi Wate Drill Pipe, Drilling Jar, 3 x Hevi Wate Drill Pipe.

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT
8" Mud Motor	28.7	800052	
8" RLL	28.7	DM151HGVR	
8" MPT	28.7	DM01535KF8	
6.1/2" Drilling Jar	28.7	MHA00211	

Survey Last Tool Type : MWD Magnetic Declination : 0.00 Survey method : Min Curvature	MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	"V" SECT (m)	DOGLEG (deg/30m)	N/S (m)	E/W (m)	TOOL TYPE
	691	637	56.22	230.	230.6	179.7	1.68	-109.6	-142.4	MWD
	721	653	59.58	230.	230.7	204.5	3.44	-125.4	-161.5	MWD
	750	667	64.19	230.	230.2	230.1	4.78	-141.7	-181.3	MWD
	778	679	66.86	230.	230.1	256.3	2.78	-158.5	-201.4	MWD

Bulk Stocks On Rig				
STOCK TYPE	START	USED	REC'D	STOCK
Barite	SX	436		436
Bentonite	SX	1546		1546
G-neat	SX	2649		2649
G+35% SiFl	SX			0
G+BFS+12.25% SiFl	SX			0
Pot Water	M3	98	27	27
Drill Water	M3	576		576
Heli-fuel	ltr	3538	720	2818
Base Oil	M3			0
Rig Fuel	M3	478	15	464
Brine	M3	64		64

Pump Data										
Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National 1	6.00	65	97	278	1730	30	110	652	9.0
2	National 1	6.00	65	97	278	1730	40	150	652	9.0
3	National 1	6.00	65	97	278	1730	50	200	652	9.0

DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
13.3/8 "	13.375	327.1	325.6		1.73	Mixed & pumped 95bbls 12.5ppg lead slurry followed by 100bbls 15.9ppg tail slurry. Displaced with seawater to 50% shoetrack volume. Plug did not bump.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
Cameron 18.3/4" Wellhead Joint	12.00	18.000	205.0	X-56	BTC
Crossover	12.27	12.415	68.0	K55	BTC
16 x Intermediate Joints	190.79	12.415	68.0	K55	BTC
Float Joint	12.42	12.415	68.0	K55	BTC
Intermediate Joint	11.73	12.415	68.0	K55	BTC
Shoe Joint	12.61	12.415	68.0	K55	BTC

Personnel : on Site =88

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	G. Howard	OMV	6
Drilling Supervisor	J. Kenrick	Service Company	21
Drilling Engineer	P. Zehetleitner	Diamond Offshore	53
Geologist	R. Tolliday	Catering	8
Geologist	P. Boothby		
Geologist	R. Leech		

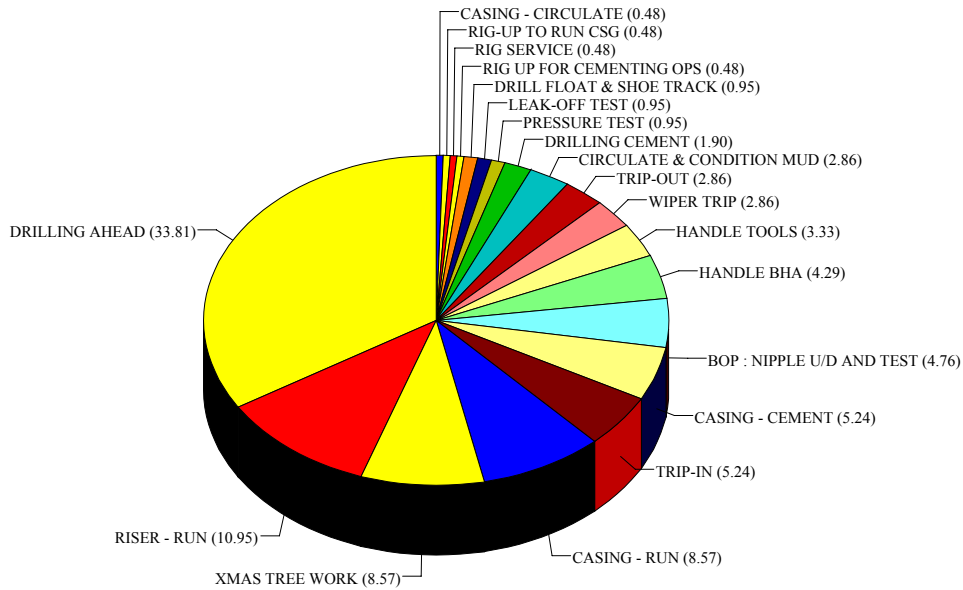
Safety, Inspections and Drills Summary

Shakers, Volumes and Losses Data				ENGINEER G. Garrick / D. Dixon
SHAKER 1	4 x 120	VOLUME AVAILABLE (bbl) = 1451 ACTIVE 657 MIXING HOLE 400 SLUG RESERVE 394 HEAVY	LOSSES (bbl) = 36 DOWNHOLE SURF. + EQUIP 36.00 DUMPED	COMMENTS Changed to finer shaker screens. Drilled, steered & surveyed 12.1/4" build up section.
SHAKER 2	4 x 120			
SHAKER 3	4 x 84			
SHAKER 4	4 x 84			
SHAKER 5	4 x 84			

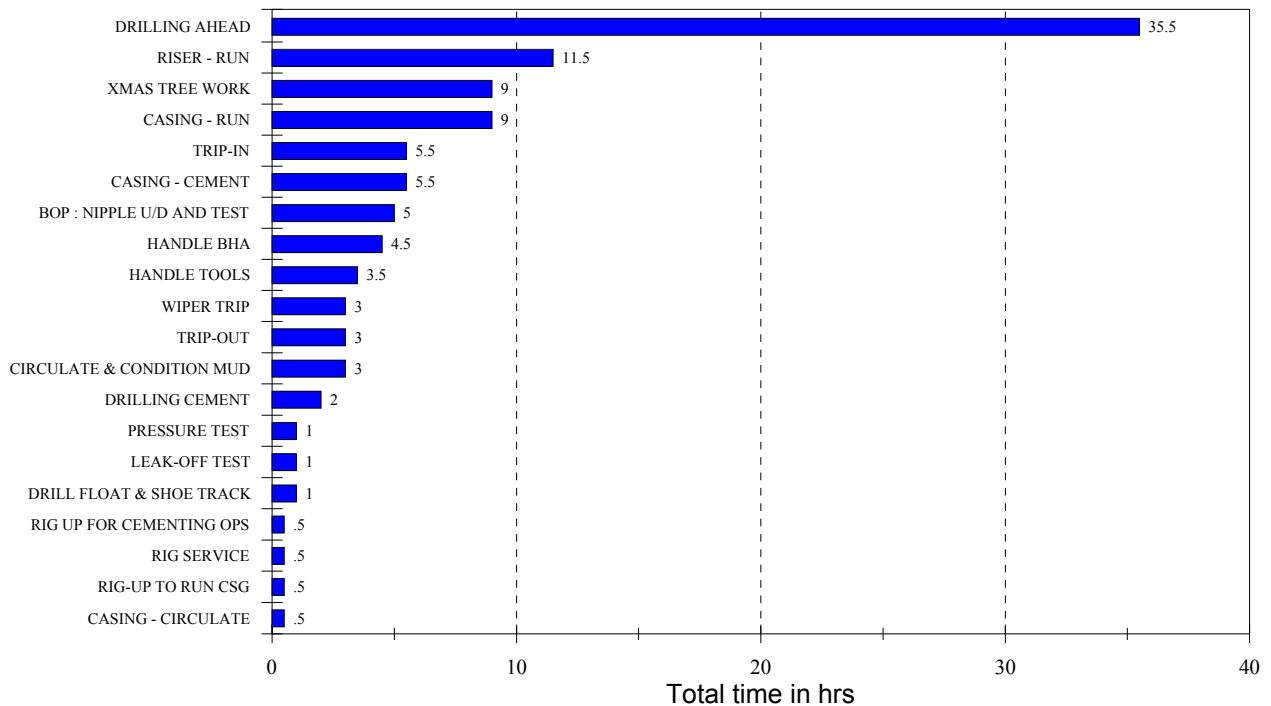
Anchors		A 1	325	A 2	240	A 3	170	A 4	350	A 5	155
		A 6	215	A 7	175	A 8	205				
Workboats											
	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)			
Pacific Conqueror	Transit	205	0	184	127	0	0	0			
Pacific Sentinel	Standb:	359	1190	530	173	0	300	0			
Weather						Rig / Sea Data					
VISIBILITY(nm)						15			RIS.TENS (klbs) 232		
WIND SP. (kts)						12.0			VDL (mt) 2,036		
WIND DIR (deg)						300			WAVES (m) 0.6		
PRES.(mbars)						1014			SWELL (m) 0.9		
AIR TEMP (C)						13.0					

Total move time (hrs)	14.50	Total prod. time since spud (hrs) :	105.00
Total time on well excluding move (hrs)	105.50	Total troub. time since spud (hrs)	0.50
		% Trouble time	0.47

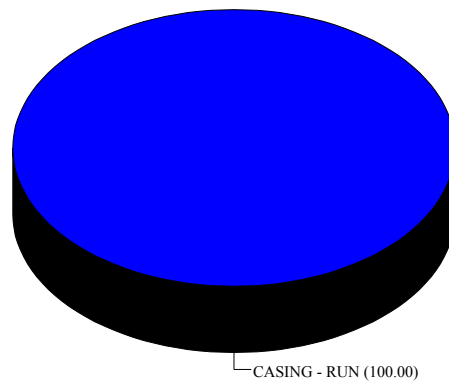
Productive Time by Op.



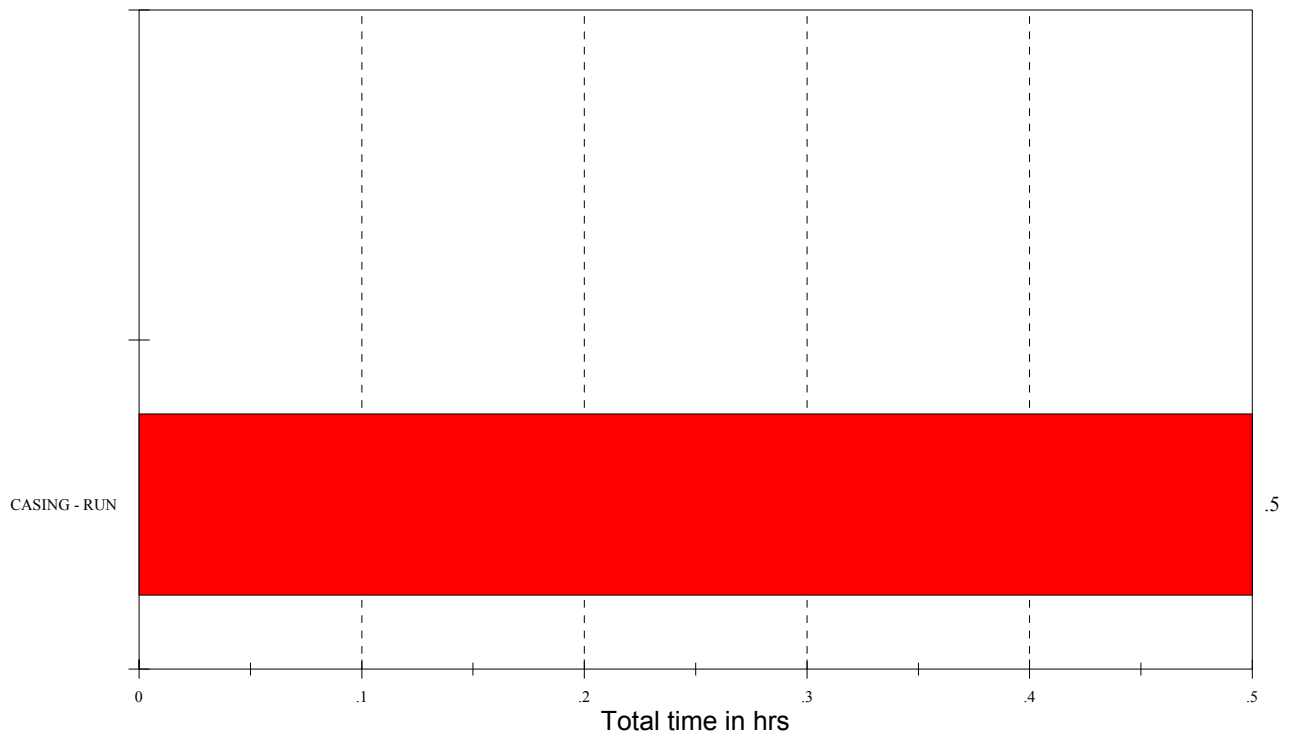
Productive time by Operation



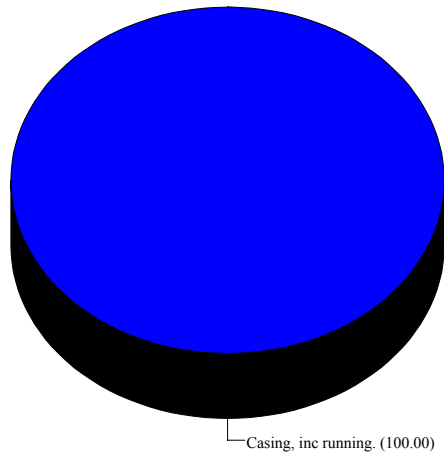
Trouble Time by Op.



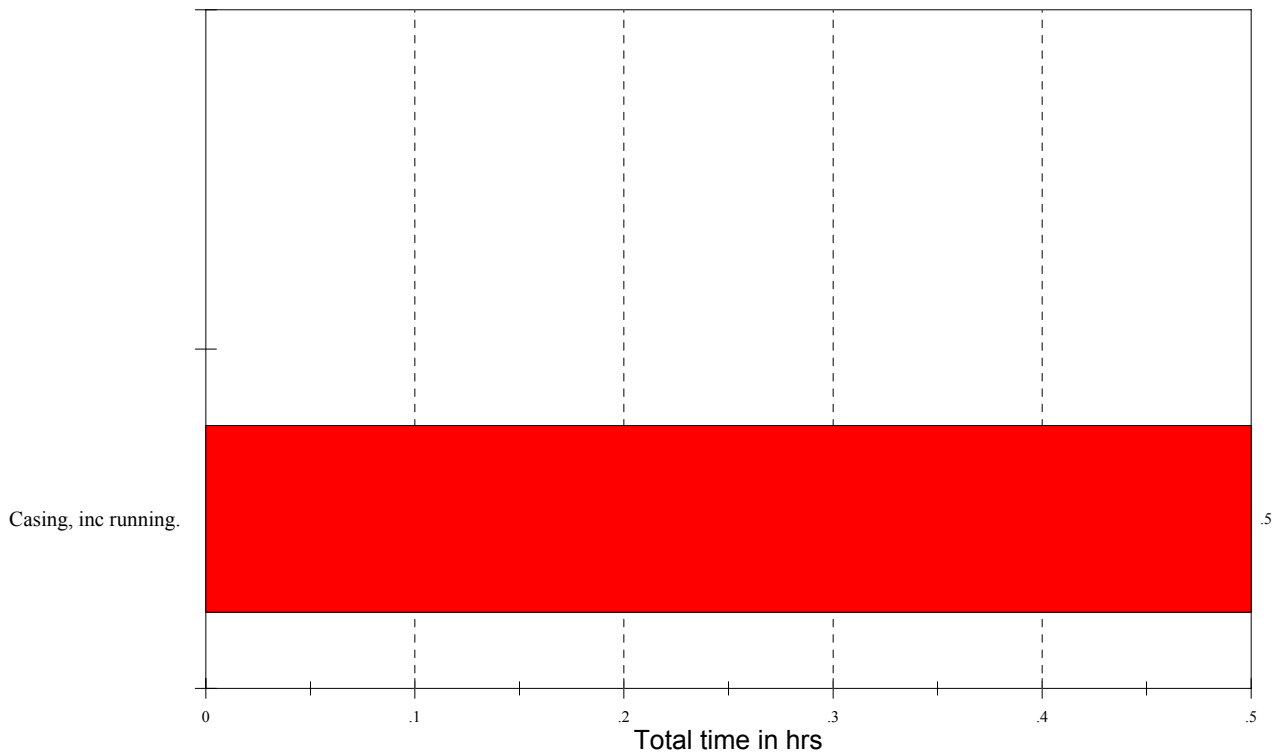
NPT by Operation



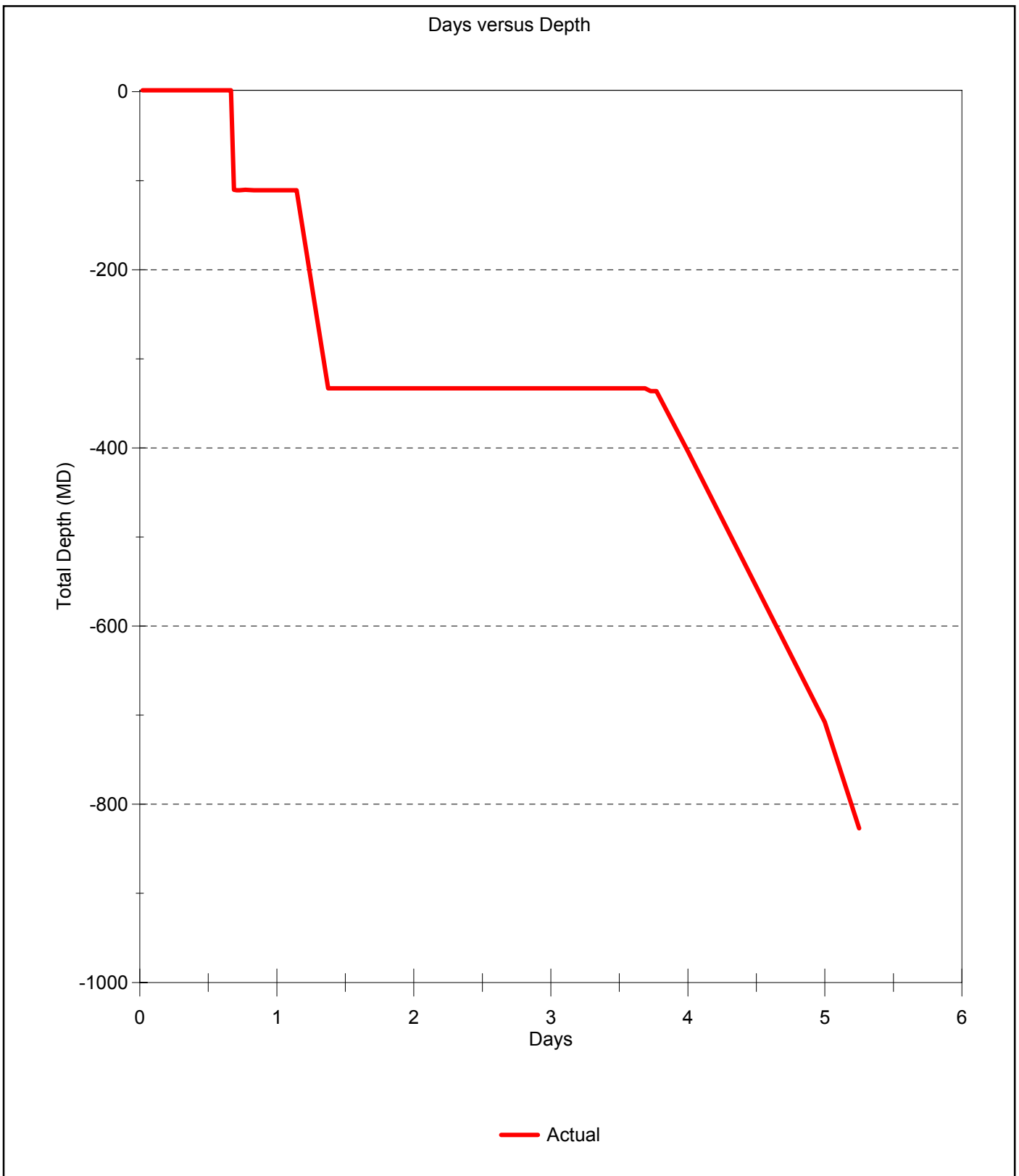
Root Cause Analysis



Root Cause Analysis



DEPTH @ 24:00 = 708.0m after 5.00 days since spud



DATE Jun 25, 2002

FROM : G. Howard / G. Othen
TO : C. Allport / S. Crocker

Patricia-2

VIC/L21

Well Data		DEPTH (mBRT)	884.0	CUR. HOLE SIZE (")	12.50	AFE COST \$	11,852,851
COUNTRY	AUSTRALIA	TVD (mBRT)	701.2	CASING OD (")	13.3/8 "	AFE BASIS :	C&S
FIELD	GIPPSLAND SUB-BASIN	PROGRESS (m)	176.0	SHOE TVD (mBRT)	326	DAILY COST :	\$365,964.00
DRILL CO.	DIAMOND OFFSHORE	DAYS ON WELL	6.00	FIT (sg)	1.73	CUM COST :	\$3,549,032.00
RIG	OCEAN BOUNTY	DAYS +/- CURVE	-2.20	LOT (sg)	0.00		
RT ABOVE SL (m)	25.0	CURRENT OP @ 0600 Cementing 9 5/8" Casing.					
WATER DEPTH (m) LAT	52.5	PLANNED OP. Test BOP / Drill 8 1/2" Hole section					
RT TO SEABED (m)	77.5						

Summary of period 0000 to 2400 hrs
 Drilled 12.1/4" build up section from 708m to 884m. Wiper trip, POOH. Rigged up and ran 13 3/8" Casing.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 25, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
IH1	P		DA	00:00	08:45	8.75	884	Drilled 12.1/4" hole from 708m to 884m. (701.17m TVD)
IH1	P		CMD	08:45	10:00	1.25	884	Circulated and increased mud weight to 1.12 SG.
IH1	P		WT	10:00	12:30	2.50	884	Precautionary pumped out F/- 884m to 655m. Continued POOH to shoe, 326m
IH1	P		WT	12:30	14:00	1.50	884	RIH to bottom @ 884m (No fill hole good)
IH1	P		CMD	14:00	15:30	1.50	884	Circulated bottoms up, max gas 12%
IH1	P		TO	15:30	18:30	3.00	884	Flow checked, POOH Hole good no drag.
IH1	P		HBH	18:30	19:00	.50	884	Down loaded MWD data.
IH1	P		WH	19:00	20:30	1.50	884	Made up wear bushing running tool and RIH. Jetted well head and recovered wear bushing.
IC1	P		CRN	20:30	24:00	3.50	884	Held JSA. Rigged up to run Casing. Picked up 9 5/8" Casing shoe track checked floats and ran Casing.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jun 26, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
IC1	P		CRN	00:00	02:30	2.50	884	Continued to run 9 5/8" Casing.
IC1	P		CRN	02:30	03:30	1.00	884	Made up hanger, rigged down flush mounted slips and laid out Tam packer. Continued running casing on landing string.
IC1	P		CRN	03:30	04:00	.50	884	Rigged up cement hose and landed Casing.
IC1	P		CIC	04:00	04:30	.50	884	Circulated casing 1.5 times casing volume.
IC1	P		CMC	04:30	06:00	1.50	884	Held JSA. Cement unit pumped 10 bbls of Sea water and pressure tested lines to 3,000 psi. Pumped 60 bbls of Super Flush followed by 10 bbls of Drill water. Dropped launching ball, sheared plug with 1200 psi.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	12.0	Jun 20, 2002	Jun 20, 2002	12.0	0.50	0.0	0.0
RIG-UP/PRESPUD	2.5	Jun 20, 2002	Jun 20, 2002	14.5	0.60	0.0	0.0
CONDUCTOR HOLE	4.0	Jun 20, 2002	Jun 20, 2002	18.5	0.77	0.0	112.0
CONDUCTORS	5.5	Jun 20, 2002	Jun 20, 2002	24.0	1.00	112.0	112.0
SURFACE HOLE	15.0	Jun 21, 2002	Jun 21, 2002	39.0	1.63	112.0	334.0
SURFACE CASING	41.0	Jun 21, 2002	Jun 23, 2002	80.0	3.33	334.0	334.0
INTERMEDIATE HOLE (1)	60.5	Jun 23, 2002	Jun 25, 2002	140.5	5.85	334.0	884.0
INTERMEDIATE CASING (1)	3.5	Jun 25, 2002	Jun 25, 2002	144.0	6.00	884.0	884.0

WBM Data		COST TODAY : \$1,600	CUM. WB MUD COST: \$92,189	CUM. WBM+OBM COST: \$92,189				
Type :	VISCOCITY (sec/qt) :	55	API FLUID LOSS (cm3/30min) :	6	CI :	45,000	SOLIDS (%vol) :	7
KCL/PHPA	PV (cps) :	14	FILTER CAKE (32nds inch) :	1	K+C*1000 :	28000	H2O (%vol) :	90.0
FROM :	YP (lb100sq.ft) :	30	HTHPFL (cm3/30min) :		HARD/Ca :	1,200	OIL (%vol) :	3
TIME :	GEL10s/10m/100m (lb100sq.ft) :	13 18 3	HTHP CAKE (32nds inch) :		MBT (ppb) :	5.0	SAND :	.1
WEIGHT (sg) :	Fann 3/6/100 :	14 16 28			PM :	.0	PH :	8.7
TEMP (C) :					PF :	.1	PHPA (ppb) :	.8
COMMENT: Added premix to active system to maintain volume. Treated sytem with Glydril, Polyplus & Duotec.								

Bit Data for Bit # 3 IADC # 1 3 5 M				Wear											
				I	O1	D	L	B	G	O2	R				
				2	2	WT	A	B	1/16	NO	TD				
SIZE (") :	12.50			NOZZLES				Drilled over the last 24 hrs				Calculated over the bit run			
MANUFACTURER :	Reed	AVE WOB (k-lbs) :	14	3 x15	METERAGE (m) :				176	CUM.METERAGE (m) :				550	
TYPE :	MHT 13GC	AVE RPM :	200	1 x24	ON BOTTOM HRS :				10.6	CUM. ON BOT. HRS :				32.9	
SERIAL # :	NL5007	FLOW (gpm) :	847	X	IADC DRILL. HRS :				7.7	CUM.IADC DRILL HRS :				38.2	
DEPTH IN (m RT) :	334	PUMP PRESS. (psi) :	2,160	X	TOTAL REVS :				127,200	CUM.TOT. REVS :				394,800	
DEPTH OUT (m RT) :	884	HSI (hp/sqi) :	2.693	X	ROP (m/hr) :				22.9	ROP (m/hr) :				14.4	

BHA # 3 Length (ft) :88.1				D.C. (1) ANN. VELOCITY (mpm) :				69
WT BLW JAR(k-lbs) :	15	STRING WT(k-lbs) :	225	TRQE MAX (ft-lbs) :	2,000	D.C. (2) ANN VELOCITY (mpm) :		69
BHA WT(k-lbs) :	89	PICK UP WT(k-lbs) :	230	TRQE ON (ft-lbs) :	3,000	H.W.D.P. ANN VELOCITY (mpm) :		48
				SLK OFF WT(k-lbs) :	220	D.P. ANN VELOCITY (mpm) :		48
BHA DESCRIPTION : 12.1/4" Bit, 8" Motor, 8 " RLL, 8" MPT, Float Sub, Crossover, 3 x 5" Hevi Wate Drill Pipe, Drilling Jar, 3 x Hevi Wate Drill Pipe.								
TOOL DESCRIPTION	HRS	SERIAL #	COMMENT					
8" Mud Motor	28.7	800052						
8" RLL	28.7	DM151HGVR						
8" MPT	28.7	DM01535KF8						
6.1/2" Drilling Jar	28.7	MHA00211						

Survey		MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/30m)	N/S (m)	E/W (m)	TOOL TYPE
Last Tool Type :	MWD	778	679	66.86	230.	230.1	256.3	2.78	-158.5	-202.7	MWD
Magnetic Declination :	0.00	807	689	71.93	230.	230.5	283.4	5.34	-174.6	-223.2	MWD
Survey method :	Min Curvature	837	696	78.14	230.	230.0	312.0	6.31	-192.9	-245.2	MWD
		863	700	85.19	229.	229.8	337.9	8.05	-209.6	-265.1	MWD

Bulk Stocks On Rig					
STOCK TYPE	START	USED	REC'D	STOCK	
Barite	SX	436	100	336	
Bentonite	SX	1546		1546	
G-neat	SX	2649		2649	
G+35% SiFI	SX			0	
G+BFS+12.25% SiFI	SX			0	
Pot Water	M3	98	25	25	98
Drill Water	M3	576	36		540
Heli-fuel	ltr	2818	349		2469
Base Oil	M3				0
Rig Fuel	M3	464	16		448
Brine	M3	64			64

Pump Data										
Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National 1	6.00	65	97	282	2160	30	110	652	9.0
2	National 1	6.00	65	97	282	2160	40	150	652	9.0
3	National 1	6.00	65	97	282	2160	50	200	652	9.0

Casing						
DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
13.3/8 "	13.375	327.1	325.6		1.73	Mixed & pumped 95bbbls 12.5ppg lead slurry followed by 100bbbls 15.9ppg tail slurry. Displaced with seawater to 50% shoetrack volume. Plug did not bump.
TYPE		LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
Cameron 18.3/4" Wellhead Joint		12.00	18.000	205.0	X-56	BTC
Crossover		12.27	12.415	68.0	K55	BTC
16 x Intermediate Joints		190.79	12.415	68.0	K55	BTC
Float Joint		12.42	12.415	68.0	K55	BTC
Intermediate Joint		11.73	12.415	68.0	K55	BTC
Shoe Joint		12.61	12.415	68.0	K55	BTC

Personnel : on Site =89			
JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	G. Howard	OMV	6
Drilling Supervisor (Nigh	G. Othen	Service Company	22
Drilling Engineer	P. Zehetleitner	Diamond Offshore	53
Geologist	R. Tolliday	Catering	8
Geologist	P. Boothby		
Geologist	R. Leech		

Safety, Inspections and Drills Summary

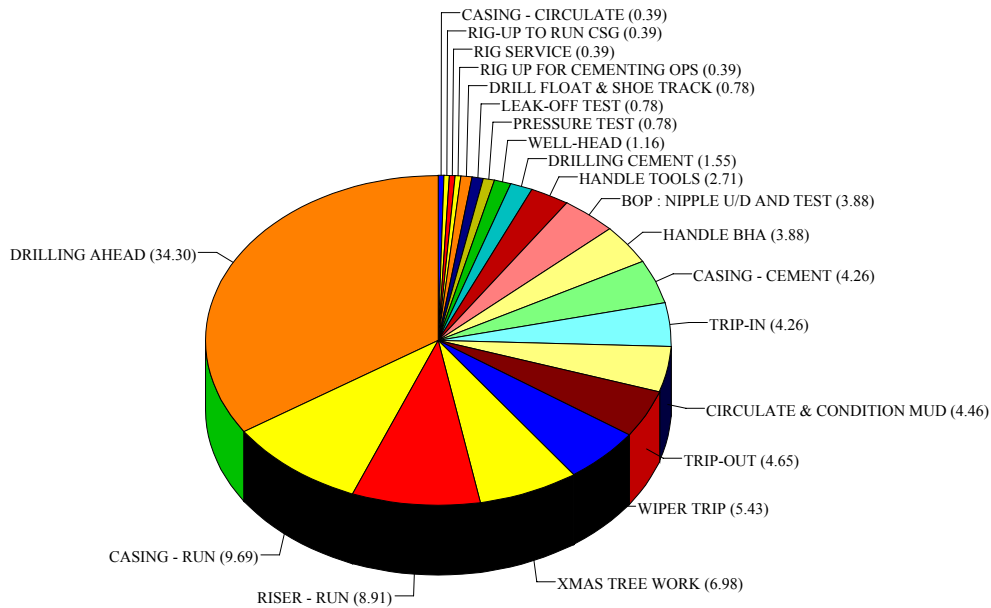
Shakers, Volumes and Losses Data				ENGINEER G. Garrick / D. Dixon	
SHAKER 1	4 x 120	VOLUME AVAILABLE (bbl) = 1244 ACTIVE 541 MIXING HOLE 513 SLUG RESERVE 190 HEAVY	LOSSES (bbl) = 216 DOWNHOLE SURF. + EQUIP 112.00 DUMPED 104.00	COMMENTS Raised mud weight to 1.12 SG.	
SHAKER 2	4 x 120				
SHAKER 3	4 x 84				
SHAKER 4	4 x 84				
SHAKER 5					

Anchors		A 1	A 2	A 3	A 4	A 5
		360	300	200	405	136
		200	155	180		

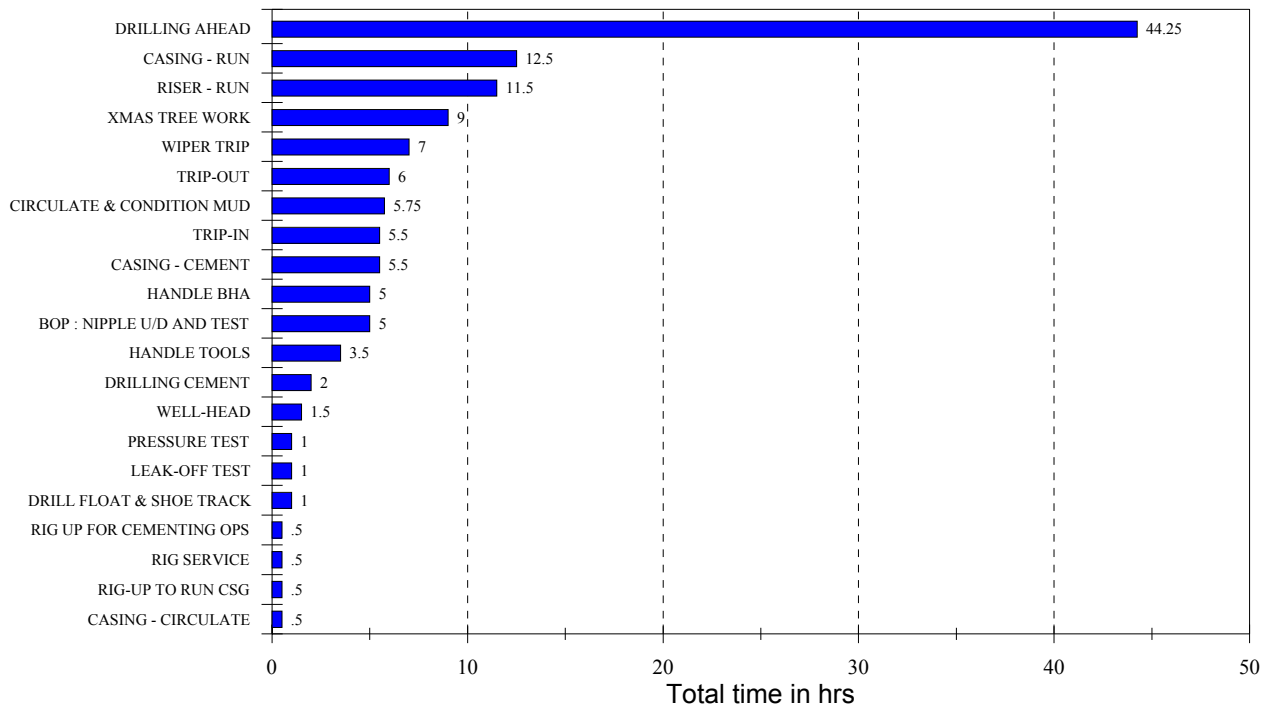
Workboats								Weather		Rig / Sea Data		
	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)				
Pacific Sentinel	Rig	355	1190	530	168		300		VISIBILITY(nm)	12	RIS.TENS (klbs)	232
Pacific Conqueror	On Rou	205		184	127				WIND SP. (kts)	45.0	VDL (mt)	2,078
									WIND DIR (deg)	260	WAVES (m)	3.7
									PRES.(mbars)	1012	SWELL (m)	2.1
									AIR TEMP (C)	16.0		

Total move time (hrs)	14.50	Total prod. time since spud (hrs) :	129.00
Total time on well excluding move (hrs)	129.50	Total troub. time since spud (hrs)	0.50
		% Trouble time	0.39

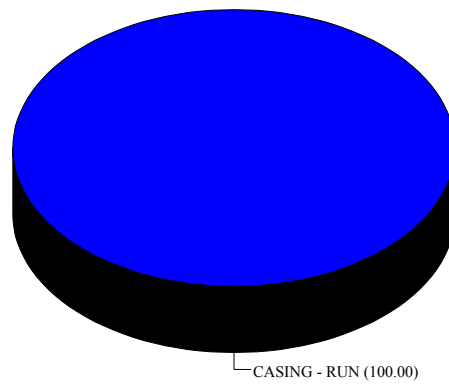
Productive Time by Op.



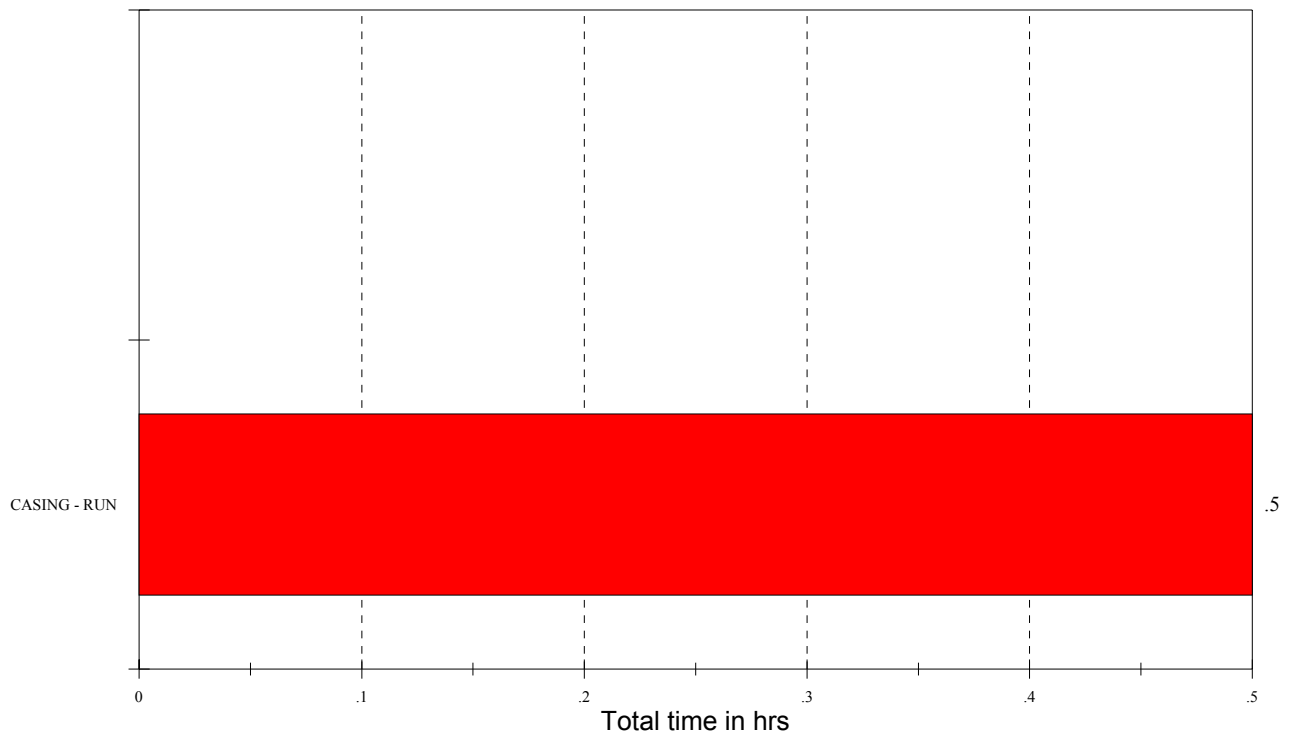
Productive time by Operation



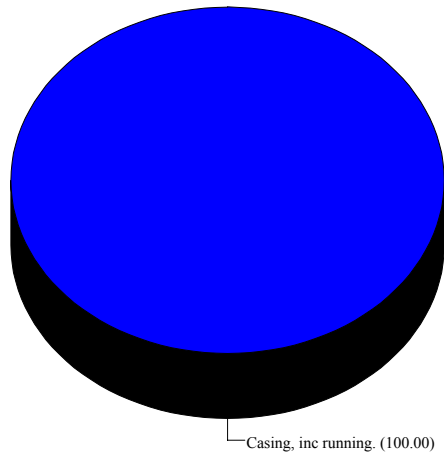
Trouble Time by Op.



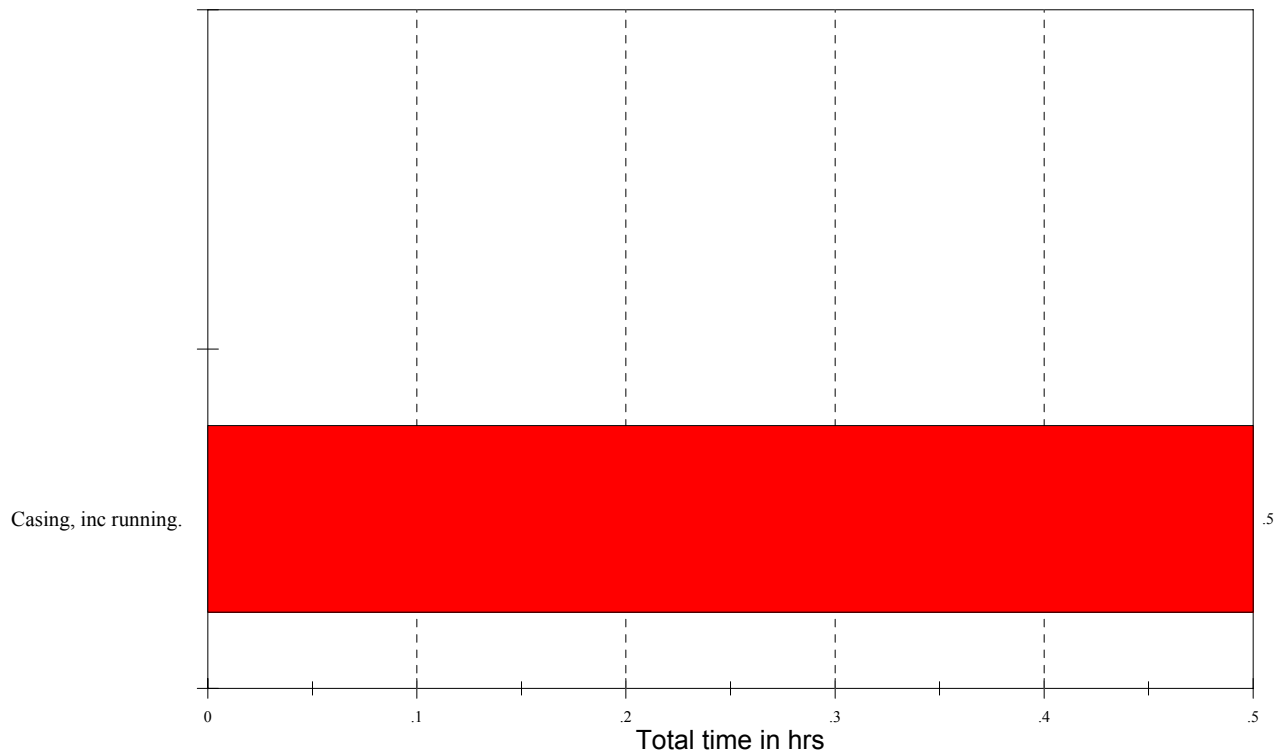
NPT by Operation



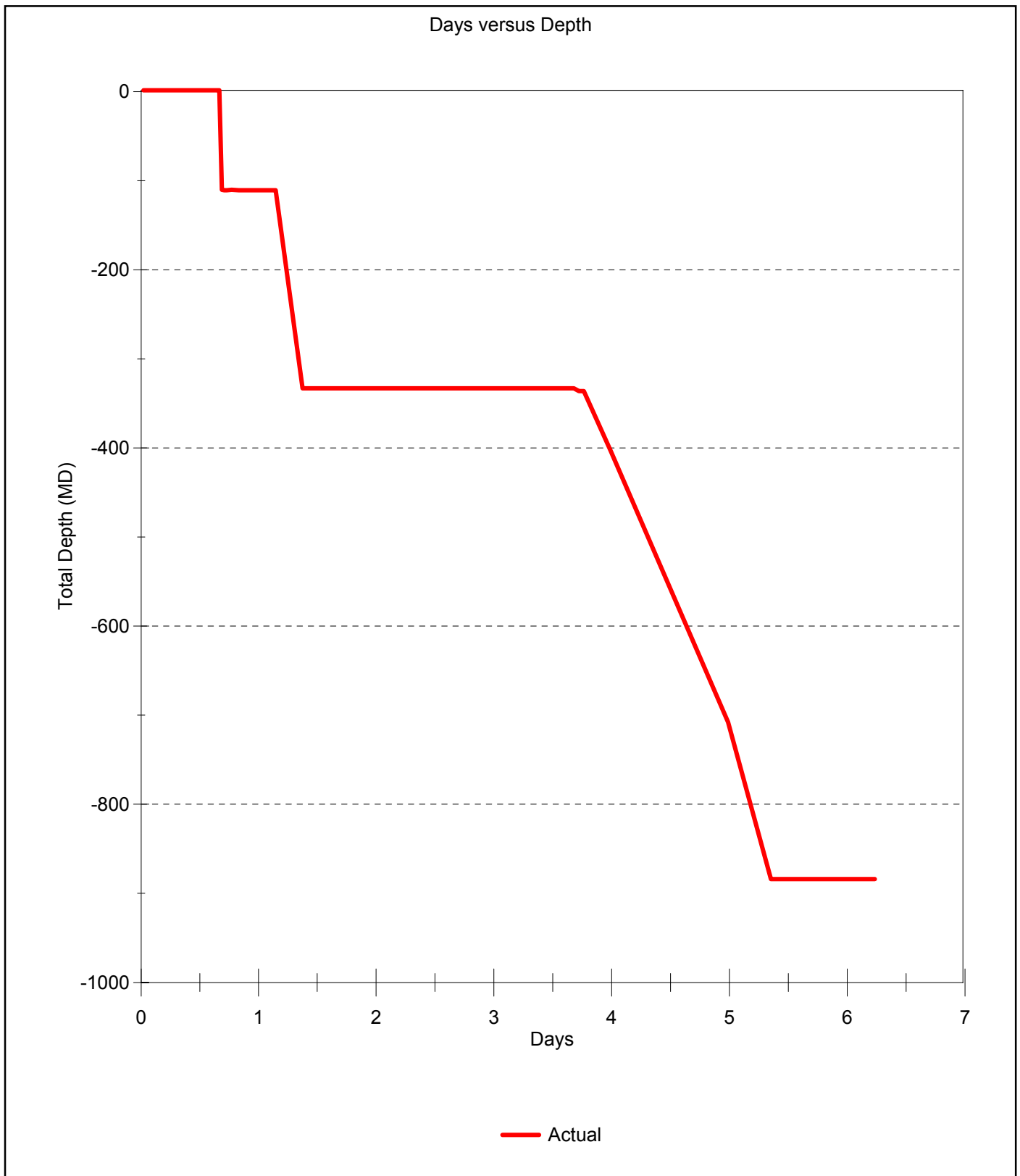
Root Cause Analysis



Root Cause Analysis



DEPTH @ 24:00 = 884.0m after 6.00 days since spud



OMV Australia

DAILY DRILLING REPORT # 7

DATE Jun 26, 2002

FROM : G. Howard / G.Othen
TO : C. Allport / S.Crocker /

Patricia-2

VIC/L21

Well Data		DEPTH (mBRT)	884.0	CUR. HOLE SIZE (")	12.50	AFE COST \$	11,852,851
COUNTRY	AUSTRALIA	TVD (mBRT)	701.2	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
FIELD	GIPPSLAND SUB-BASIN	PROGRESS (m)	0.0	SHOE TVD (mBRT)	700	DAILY COST :	\$690,558.00
DRILL CO.	DIAMOND OFFSHORE	DAYS ON WELL	7.00	FIT (sg)	1.40	CUM COST :	\$4,239,590.00
RIG	OCEAN BOUNTY	DAYS +/- CURVE	-2.30	LOT (sg)	0.00		
RT ABOVE SL (m)	25.0	CURRENT OP @ 0600 Drilling 8 1/2" Hole section.					
WATER DEPTH (m) LAT	52.5	PLANNED OP. Drill 8 1/2" hole section to TD.					
RT TO SEABED (m)	77.5						

Summary of period 0000 to 2400 hrs

Ran & cemented 9 5/8" casing, Tested BOP, Laid out 12 1/4" BHA Picked up 8 1/2" BHA. Drilled shoe track.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 26, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
IC1	P		CRN	00:00	02:30	2.50	884	Continued to run 9 5/8" Casing.
IC1	P		CRN	02:30	03:30	1.00	884	Made up hanger, rigged down flush mounted slips and laid out Tam packer. Continued running casing on landing string.
IC1	P		CRN	03:30	04:00	.50	884	Rigged up cement hose and landed Casing.
IC1	P		CIC	04:00	04:30	.50	884	Circulated casing 1.5 times casing volume.
IC1	P		CMC	04:30	07:00	2.50	884	Held JSA. Cement unit pumped 10 bbls of Sea water and pressure tested lines to 3,000 psi. Pumped 60 bbls of Super Flush followed by 10 bbls of Drill water. Dropped launching ball, sheared plug with 1200 psi. Mixed and pumped 378sx of 'G' grade cement, 78 bbls of cement slurry at 1.89 sg. Dropped top dart and sheared plug with 1800 psi. Displaced with 10 bbls of drill water, and displaced cement with mud. Bumped plug and pressure tested casing to 3000 psi. Floats held.
IC1	P		CRN	07:00	08:00	1.00	884	Released and recovered running tool.
IC1	P		WH	08:00	10:00	2.00	884	M/up and Ran seal assembly. Tested 200 / 5000 psi 5 / 10 min
IC1	P		BOP	10:00	10:30	.50	884	Pressure tested BOP. (LPR & VPR) Tested 200 / 5000 psi 5/10 min. Valve test on Yellow pod. Function test on blue pod.
IC1	P		TO	10:30	12:00	1.50	884	POOH with seal assembly running tool.
IC1	P		HBHA	12:00	12:30	.50	884	Laid out 12 1/4" BHA
IC1	P		BOP	12:30	13:30	1.00	884	Made up and RIH with BOP test tool.
IC1	P		BOP	13:30	16:30	3.00	884	Pressure tested BOP. (Annulars 200 / 2500 psi - Rams 200 /5000 psi)
IC1	P		BOP	16:30	17:00	.50	884	POOH with test tool. (Tested shear rams 3000 psi)
IC1	P		HT	17:00	17:30	.50	884	Service broke and laid out cement head.
IC1	P		HBHA	17:30	20:30	3.00	884	Made up 8 1/2" bit, motor and replaced battery in MWD tool. Function tested tool, loaded radioactive source.
IC1	P		TI	20:30	22:00	1.50	884	RIH with 8 1/2" Drilling assembly to 750m (Broke circulation)
IC1	P		RS	22:00	22:30	.50	884	Serviced TDS @ 750m
IC1	P		TI	22:30	23:30	1.00	884	Continued RIH F /- 750m to 848m (Tagged @ 848m)
IC1	P		DFS	23:30	24:00	.50	884	Drilled shoe track (Drilled firm cement through-out)

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jun 27, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
IC1	P		DFS	00:00	02:15	2.25	884	Continued drilling shoe track and rat hole to 884m
PH	P		DA	02:15	02:45	.50	887	Drilled F /- 884m to 887m (Displaced well to Flo-Pro mud)
PH	P		CMD	02:45	03:00	.25	887	Circulated until shakers clean.
PH	P		LOT	03:00	03:30	.50	887	Pulled into shoe, preformed FIT (Pressured up to 330 psi Mud weight 1.07 sg EMW= 1.4 sg)
PH	P		DA	03:30	06:00	2.50	928	Took SCRs & Choke line friction loss, Run back to bottom. Drilled F /- 887m to 928m. (TVD 701.2m)

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	12.0	Jun 20, 2002	Jun 20, 2002	12.0	0.50	0.0	0.0
RIG-UP/PRESPUD	2.5	Jun 20, 2002	Jun 20, 2002	14.5	0.60	0.0	0.0
CONDUCTOR HOLE	4.0	Jun 20, 2002	Jun 20, 2002	18.5	0.77	0.0	112.0
CONDUCTORS	5.5	Jun 20, 2002	Jun 20, 2002	24.0	1.00	112.0	112.0
SURFACE HOLE	15.0	Jun 21, 2002	Jun 21, 2002	39.0	1.63	112.0	334.0
SURFACE CASING	41.0	Jun 21, 2002	Jun 23, 2002	80.0	3.33	334.0	334.0
INTERMEDIATE HOLE (1)	60.5	Jun 23, 2002	Jun 25, 2002	140.5	5.85	334.0	884.0
INTERMEDIATE CASING (1)	27.5	Jun 25, 2002	Jun 26, 2002	168.0	7.00	884.0	884.0

WBM Data		COST TODAY : \$53,046		CUM. WB MUD COST: \$145,235		CUM. WBM+OBM COST: \$145,235	
Type :	Viscosity (sec/qt) : 120	API FLUID LOSS (cm3/30min) : 5	CI : 32,000	SOLIDS (%vol) : 4			
Flo-Pro	PV (cps) : 9	FILTER CAKE (32nds inch) : 1	K+C*1000 :	H2O (%vol) : 96.0			
FROM : Pit	YP (lb100sq.ft) : 37	HTHPFL (cm3/30min) :	HARD/Ca : 350	OIL (%vol) : 0			
TIME : 22:30	GEL 10s/10m/100m (lb100sq.ft) : 17 20	HTHP CAKE (32nds inch) :	MBT (ppb) : 1.0	SAND : 0			
WEIGHT (sg) : 1.07	Fann 3/6/100 : 17 19 37		PM : .8	PH : 8.9			
TEMP (C) :			PF : .2	PHPA (ppb) :			
COMMENT: Added premix to active system to maintain volume. Treated sytem with Glydрил, Polyplus & Duotec.							

Bit Data for Bit # 4 IADC #		Wear							
		I	O1	D	L	B	G	O2	R
SIZE (") :	8.50								
MANUFACTURER :	Reed	NOZZLES		Drilled over the last 24 hrs				Calculated over the bit run	
TYPE :	EPH-41-ALKDH	X							
SERIAL # :	M-25484	X							
DEPTH IN (m RT) :	884	X							
DEPTH OUT (m RT) :		X							
	AVE WOB (k-lbs) :	X							
	AVE RPM :	X							
	FLOW (gpm) :	X							
	PUMP PRESS. (psi) :	X							
	HSI (hp/sqi) : 0.000	X							

BHA # 4 Length (ft) :1,266.8		D.C. (1) ANN. VELOCITY (mpm) :		0	
WT BLW JAR(k-lbs) :	STRING WT(k-lbs) :	TRQE MAX (ft-lbs) :	D.C. (2) ANN VELOCITY (mpm) :	0	
BHA WT(k-lbs) :	PICK UP WT(k-lbs) :	TRQE ON (ft-lbs) :	H.W.D.P. ANN VELOCITY (mpm) :	0	
	SLK OFF WT(k-lbs) :	TRQE OFF (ft-lbs) :	D.P. ANN VELOCITY (mpm) :	0	

BHA DESCRIPTION : 81/2" bit,motor,MPT,MWD,pulser,float sub,3xHWDP,jar,3xHWDP,93 Joints 5" Drill pipe,30xHWDP

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT
Motor	0.0	675188	
MPT Tool	0.0	DM-01540 M3	
RLL Tool	0.0	DM-1537	
		HNRL	
Pulser	0.0	DM-01528 K6	
Jars	0.0	DAH-2122	

Survey		MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/30m)	N/S (m)	E/W (m)	TOOL TYPE
Last Tool Type :	MWD	778	679	66.86	230.	230.1	256.3	2.78	-158.5	-202.7	MWD
Magnetic Declination :	0.00	807	689	71.93	230.	230.5	283.4	5.34	-174.6	-223.2	MWD
Survey method :	Min Curvature	837	696	78.14	230.	230.0	312.0	6.31	-192.9	-245.2	MWD
		863	700	85.19	229.	229.8	337.9	8.05	-209.6	-265.1	MWD

Pump Data										
Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National 1	6.00	64	97	282	1350	30	110	652	9.0
2	National 1	6.00	54	97	282	1350	40	150	652	9.0
3	National 1	6.00	0	97	0	0	50	200	652	9.0

Bulk Stocks On Rig				
STOCK TYPE	START	USED	REC'D	STOCK
Barite	SX	336		336
Bentonite	SX	1546		1546
G-neat	SX	2649	483	2166
G+35% SiFI	SX			0
G+BFS+12.25% SiFI	SX			0
Pot Water	M3	98	23	23
Drill Water	M3	540	233	280
Heli-fuel	ltr	2469	587	1882
Base Oil	M3			0
Rig Fuel	M3	448	10	439
Brine	M3	64		64

Casing						
DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	872.4	700.0		1.40 1.40	Mixed and pumped 378 sx og G cement, 78 bbls of slurry @ 1.89 sg. Displaced and bumped plug pressue tested casing to 3000 psi.

TYPE	LNGLH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
Well head	2.35	8.575	47.0	L-80	New Vam
X/over (NK3SB Pin x New Vam Box)	3.17	8.575	47.0	L-80	Vam x NK3
Pup Joint	3.07	8.575	47.0	L-80	NK3SB
Pup Joint	3.07	8.575	47.0	L-80	NK3SB
9 5/8" Casing	746.58	8.575	47.0	L-80	NK3SB
Float Joint	13.17	8.575	47.0	L-80	NK3SB
Intermeniate Joint	12.04	8.575	47.0	L-80	NK3SB
Shoe Joint	12.54	8.575	47.0	L-80	NK3SB

Personnel : on Site =93			
JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	G. Howard	OMV	7
Drilling Supervisor (Nigh)	G. Othen	Service Company	25
Drilling Engineer	P. Zehetleitner	Diamond Offshore	53
Geologist	R. Tolliday	Catering	8
Geologist	P. Boothby		
Geologist	R. Leech		

Safety, Inspections and Drills Summary

Shakers, Volumes and Losses Data				ENGINEER D. Dixon / G Garrick	
SHAKER 1	120 x 4	VOLUME AVAILABLE (bbl) = 2120 ACTIVE 797 MIXING HOLE 256 SLUG RESERVE 1067 HEAVY	LOSSES (bbl) = 190 DOWNHOLE SURF. + EQUIP 0.00 DUMPED 190.00	COMMENTS Prepared new mud system.	
SHAKER 2	120 x4				
SHAKER 3	84 x 4				
SHAKER 4	84 x 4				
SHAKER 5					

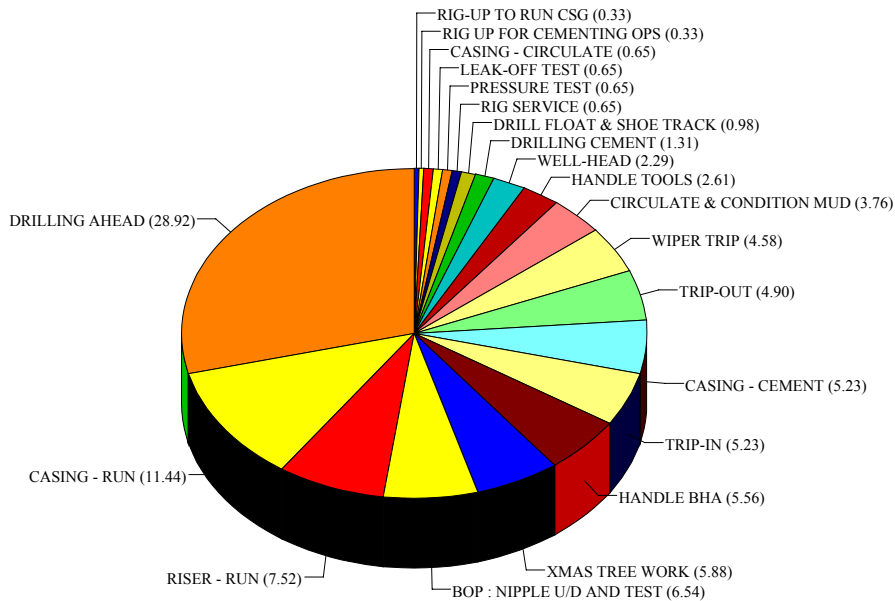
Anchors							
A 1	315	A 2	250	A 3	175	A 4	350
A 6	220	A 7	190	A 8	210	A 5	150

Workboats				Weather		Rig / Sea Data	
Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)
Pacific Sentinel	To Gee	349	1190	250	165	300	
Pacific Conqueror	At Rig	446	640	205			

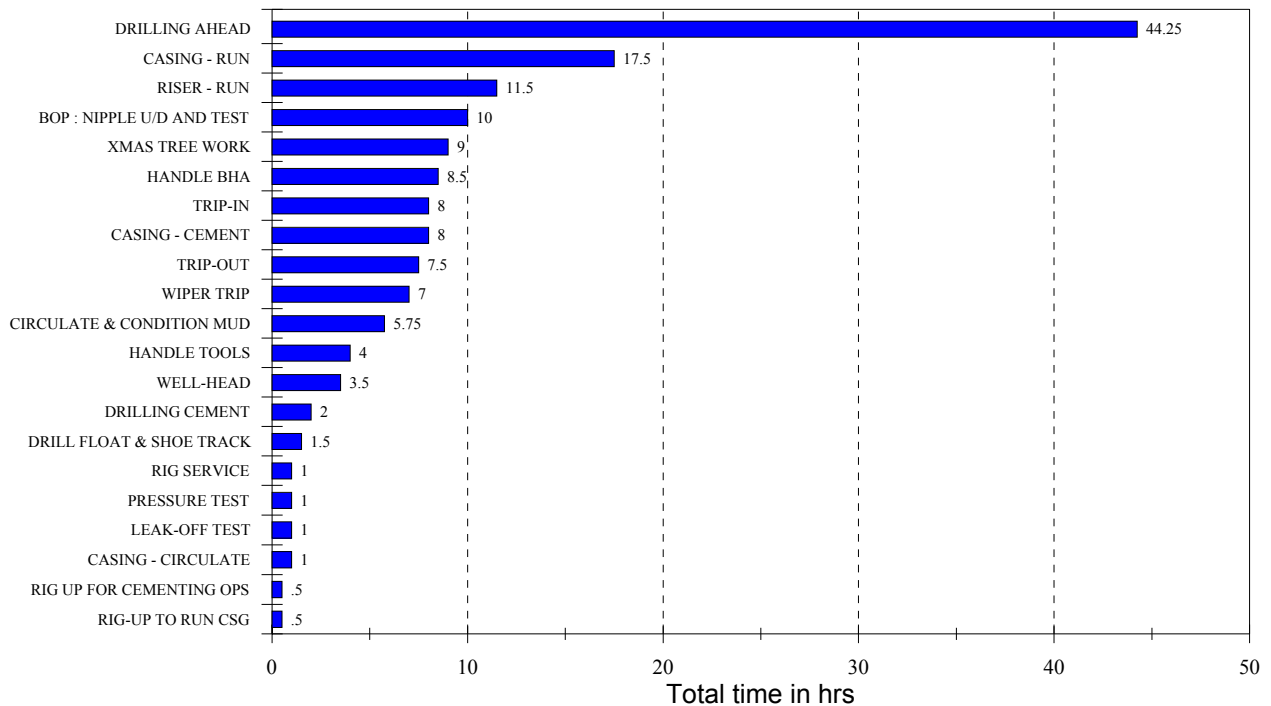
VISIBILITY(nm)	12	RIS.TENS (klbs)	232
WIND SP. (kts)	45.0	VDL (mt)	2,114
WIND DIR (deg)	260	WAVES (m)	3.7
PRES.(mbars)	1017	SWELL (m)	1.8
AIR TEMP (C)	15.0		

Total move time (hrs)	14.50	Total prod. time since spud (hrs) :	153.00
Total time on well excluding move (hrs)	153.50	Total troub. time since spud (hrs)	0.50
		% Trouble time	0.33

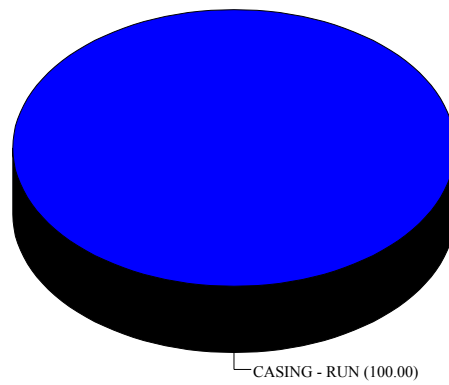
Productive Time by Op.



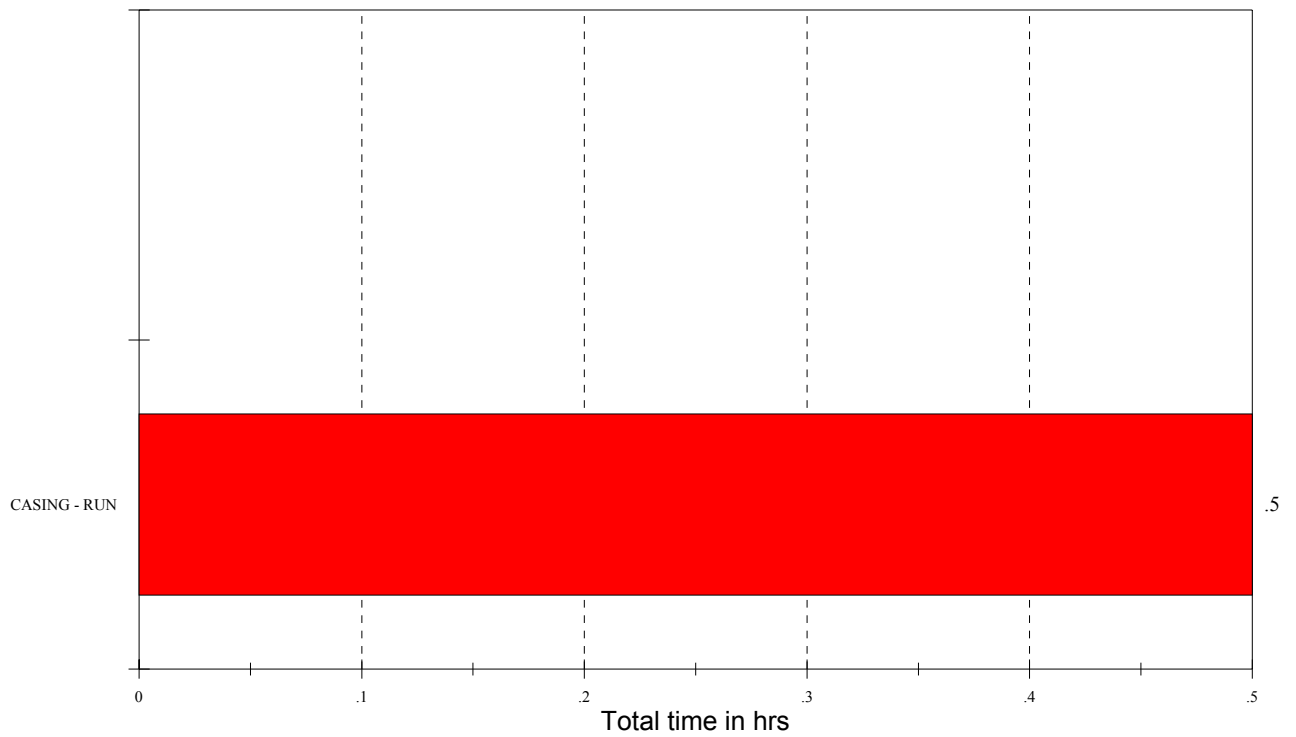
Productive time by Operation



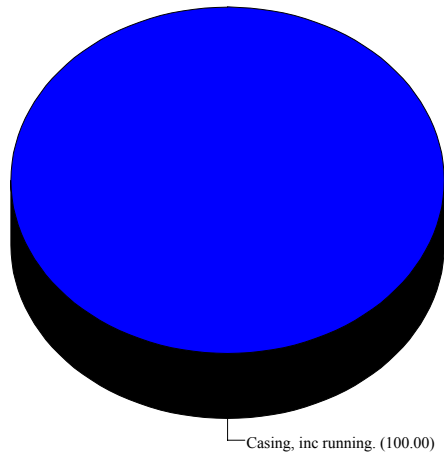
Trouble Time by Op.



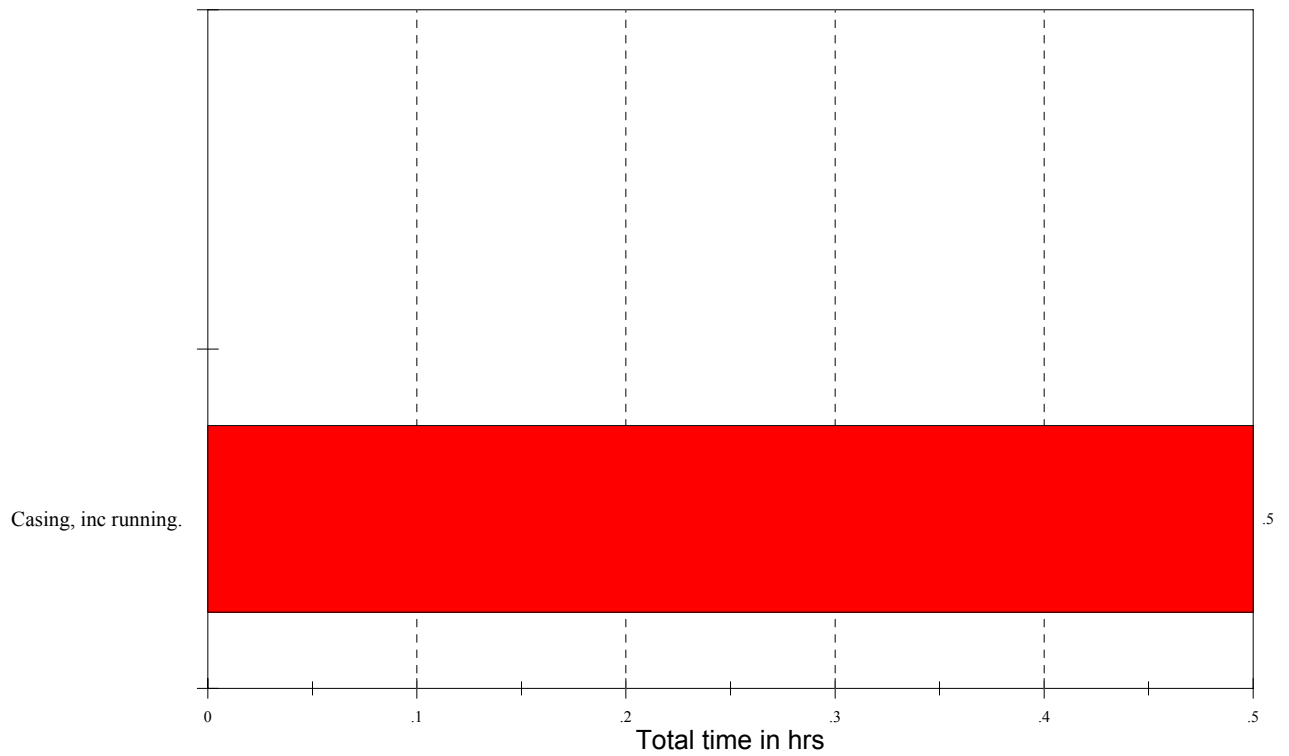
NPT by Operation



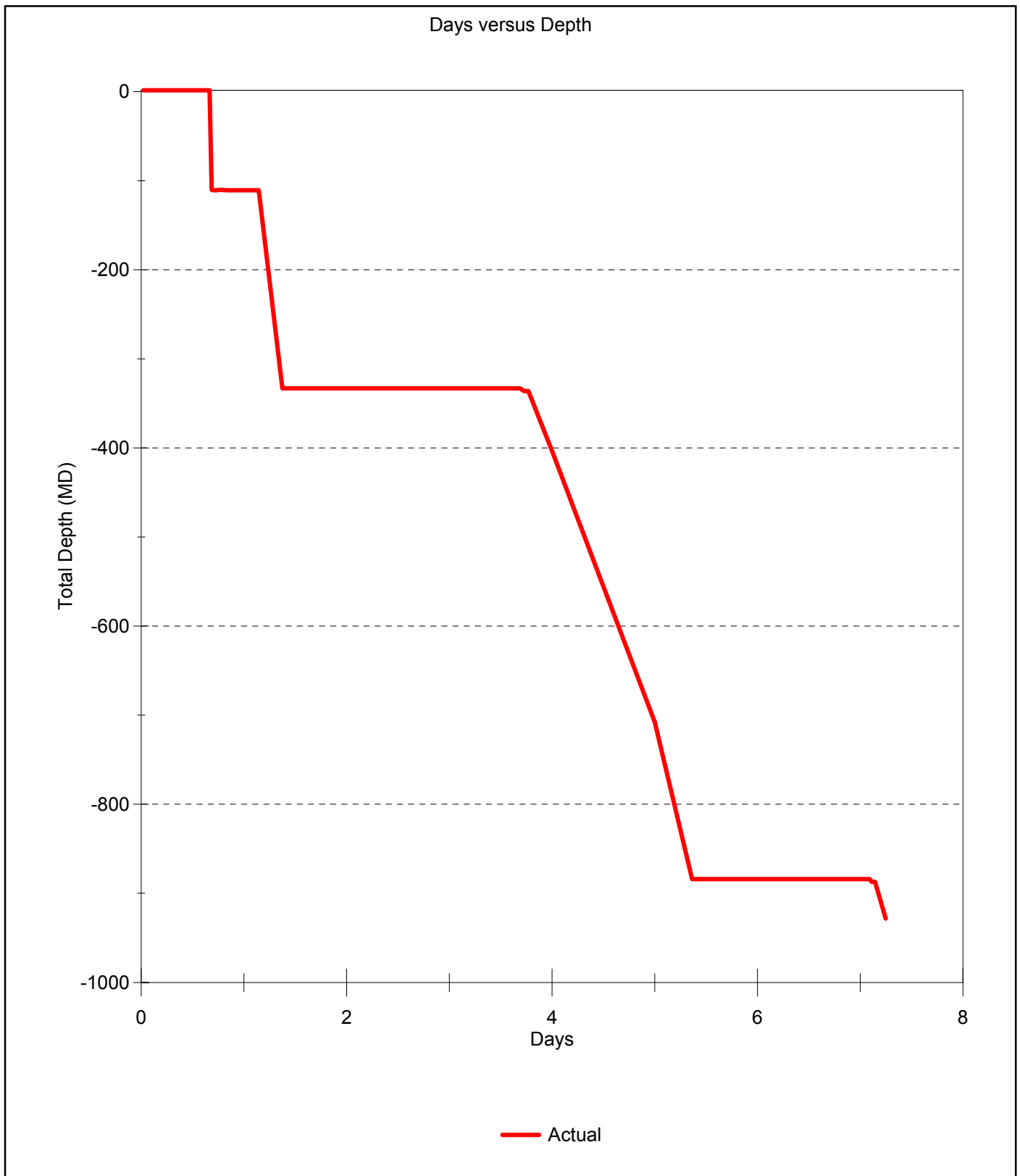
Root Cause Analysis



Root Cause Analysis



DEPTH @ 24:00 = 884.0m after 7.00 days since spud



DATE Jun 27, 2002

FROM : G. Howard / G.Othen
TO : C. Allport / S.Crocker /

Patricia-2

VIC/L21

Well Data		DEPTH (mBRT)	1,365.0	CUR. HOLE SIZE (")	8.50	AFE COST \$	11,852,851
COUNTRY	AUSTRALIA	TVD (mBRT)	701.3	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
FIELD	GIPPSLAND SUB-BASIN	PROGRESS (m)	481.0	SHOE TVD (mBRT)	700	DAILY COST :	\$387,030.00
DRILL CO.	DIAMOND OFFSHORE	DAYS ON WELL	8.00	FIT (sg)	1.40	CUM COST :	\$4,626,620.00
RIG	OCEAN BOUNTY	DAYS +/- CURVE	-2.70	LOT (sg)	0.00		
RT ABOVE SL (m)	25.0	CURRENT OP @ 0600 Displacing well to Flo-pro SF mud back to shoe.					
WATER DEPTH (m) LAT	52.5	PLANNED OP. Displace well to brine above shoe, POOH, run completion.					
RT TO SEABED (m)	77.5						

Summary of period 0000 to 2400 hrs
Drilled shoe track, performed FIT. Drilled 8 1/2" Hole section.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 27, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
IC1	P		DFS	00:00	02:15	2.25	884	Continued drilling shoe track and rat hole to 884m
PH	P		DA	02:15	02:45	.50	887	Drilled 8 1/2" Hole F /- 884m to 887m (Displaced well to Flo-Pro mud)
PH	P		CMD	02:45	03:00	.25	887	Circulated until shakers clean.
PH	P		LOT	03:00	03:30	.50	887	Pulled into shoe, preformed FIT (Pressured up to 330 psi Mud weight 1.07 sg EMW= 1.4 sg)
PH	P		DA	03:30	24:00	20.50	1,365	Took SCRs & Choke line friction loss, Run back to bottom. Drilled F /- 887m to 1365m (TVD 701.32m)

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jun 28, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
PH	P		DA	00:00	01:00	1.00	1,385	Continued drilling 8 1/2" Hole F /- 1365m to 1385m (TVD 701.15m)
PH	P		CMD	01:00	01:30	.50	1,385	Circulated bottoms up. (Shakers clean)
PH	P		WT	01:30	06:00	4.50	1,385	Flow checked, Wiper trip back to shoe @ 872m (Hole good no extra drag) Tagged bottom @ 1385m, no fill on bottom. (Hole in good condition)

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	12.0	Jun 20, 2002	Jun 20, 2002	12.0	0.50	0.0	0.0
RIG-UP/PRESPUD	2.5	Jun 20, 2002	Jun 20, 2002	14.5	0.60	0.0	0.0
CONDUCTOR HOLE	4.0	Jun 20, 2002	Jun 20, 2002	18.5	0.77	0.0	112.0
CONDUCTORS	5.5	Jun 20, 2002	Jun 20, 2002	24.0	1.00	112.0	112.0
SURFACE HOLE	15.0	Jun 21, 2002	Jun 21, 2002	39.0	1.63	112.0	334.0
SURFACE CASING	41.0	Jun 21, 2002	Jun 23, 2002	80.0	3.33	334.0	334.0
INTERMEDIATE HOLE (1)	60.5	Jun 23, 2002	Jun 25, 2002	140.5	5.85	334.0	884.0
INTERMEDIATE CASING (1)	29.8	Jun 25, 2002	Jun 27, 2002	170.3	7.09	884.0	884.0
PRODUCTION HOLE (1)	21.8	Jun 27, 2002	Jun 27, 2002	192.0	8.00	887.0	1,365.0

WBM Data	COST TODAY : \$18,655	CUM. WB MUD COST: \$163,890	CUM. WBM+OBM COST: \$163,890
Type :	VISCOCITY (sec/qt) : 60	API FLUID LOSS (cm ³ /30min) : 5	CI : 72,000
Flo-Pro	PV (cps): 11	FILTER CAKE (32nds inch) : 1	K+C*1000 : 400
FROM : Pit	YP (lb100sq.ft): 32	HTHPFL (cm ³ /30min) : 15 17	MBT (ppb) : 2.0
TIME : 22:30	GEL 10s/10m/100m (lb100sq.ft) : 15 17	HTHP CAKE (32nds inch) : 14 16 31	PM : .2
WEIGHT (sg) : 1.12	Fann 3/6/100 : 14 16 31		PF : .1
TEMP (C) :			SOLIDS (%vol) : 8
			H2O (%vol) : 92.0
			OIL (%vol) : 0
			SAND : .25
			PH : 9.5
			PHPA (ppb) :
COMMENT: Added premix to active system to maintain volume. Treated sytem with Glydril, Polyplus & Duotec.			

Bit Data for Bit # 4 IADC # 4 1 7				Wear								
				I	O1	D	L	B	G	O2	R	
SIZE (") :	8.50			NOZZLES				Drilled over the last 24 hrs				
MANUFACTURER :	Reed	AVE WOB (k-lbs) :	8	1 X14	METERAGE (m) :			481	Calculated over the bit run			
TYPE :	EPH-41-ALKDH	AVE RPM :	130	1 X14	ON BOTTOM HRS :			12.8	CUM.METERAGE (m) :			481
SERIAL # :	M-25484	FLOW (gpm) :	573	1 X14	IADC DRILL. HRS :			21.0	CUM.ON BOT. HRS :			12.8
DEPTH IN (m RT) :	884	PUMP PRESS. (psi) :	2,090	X	TOTAL REVS :			99,840	CUM.IADC DRILL HRS :			21.0
DEPTH OUT (m RT) :		HSI (hp/sqi) :	8.161	X	ROP (m/hr) :			22.9	CUM.TOT. REVS :			99,840
								ROP (m/hr) :				22.9

BHA #4 Length (ft) :1,266.8				D.C. (1) ANN. VELOCITY (mpm):	143	
WT BLW JAR(k-lbs):	STRING WT(k-lbs) :	72	TRQE MAX (ft-lbs):	8,000	D.C. (2) ANN VELOCITY (mpm):	0
BHA WT(k-lbs) :	PICK UP WT(k-lbs) :	87	TRQE ON (ft-lbs):	6,000	H.W.D.P. ANN VELOCITY (mpm):	91
	SLK OFF WT(k-lbs) :	57	TRQE OFF (ft-lbs):	6,000	D.P. ANN VELOCITY (mpm) :	91
BHA DESCRIPTION : 8 1/2" bit,motor,MPT,MWD,pulser,float sub,3xHWDP,jar,3xHWDP,93 Joints 5" Drill pipe,30xHWDP						
TOOL DESCRIPTION	HRS	SERIAL #	COMMENT			
Motor	0.0	675188				
MPT Tool	0.0	DM-01540 M3				
RLL Tool	0.0	DM-1537				
		HNRL				
Pulser	0.0	DM-01528 K6				
Jars	0.0	DAH-2122				

Survey		MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/30m)	N/S (m)	E/W (m)	TOOL TYPE
Last Tool Type :	MWD	1,281	701	90.98	232.	232.7	756.1	1.49	-469.3	-592.8	MWD
Magnetic Declination :	0.00	1,310	701	89.67	232.	232.7	785.0	1.36	-486.8	-615.8	MWD
Survey method :	Min Curvature	1,339	701	89.82	233.	233.4	814.0	0.71	-504.2	-639.0	MWD
		1,368	701	90.46	234.	234.0	843.0	0.93	-521.5	-662.4	MWD

Bulk Stocks On Rig					
STOCK TYPE	START	USED	REC'D	STOCK	
Barite	SX	336		336	
Bentonite	SX	1546		1546	
G-neat	SX	2166		2166	
G+35% SiFI	SX			0	
G+BFS+12.25% SiFI	SX			0	
Pot Water	M3	98	24	24	98
Drill Water	M3	587	107		480
Heli-fuel	ltr	1882	285		1597
Base Oil	M3				0
Rig Fuel	M3	439	12		427
Brine	M3	64			64

Pump Data										
Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National 1	6.00	64	97	286	2090	30	240	1180	9.3
2	National 1	6.00	54	97	287	2090	40	310	1180	9.3
3	National 1	6.00	0	97	0	2090	50	385	1180	9.3

Casing						
DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	872.4	700.0		1.40 1.40	Mixed and pumped 378 sx og G cement, 78 bbls of slurry @ 1.89 sg. Displaced and bumped plug pressue tested casing to 3000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
Well head	2.35	8.575	47.0	L-80	New Vam
X/over (NK3SB Pin x New Vam Box)	3.17	8.575	47.0	L-80	Vam x NK3
Pup Joint	3.07	8.575	47.0	L-80	NK3SB
Pup Joint	3.07	8.575	47.0	L-80	NK3SB
9 5/8" Casing	746.58	8.575	47.0	L-80	NK3SB
Float Joint	13.17	8.575	47.0	L-80	NK3SB
Intermeniate Joint	12.04	8.575	47.0	L-80	NK3SB
Shoe Joint	12.54	8.575	47.0	L-80	NK3SB

Personnel : on Site =91			
JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	G. Howard	OMV	7
Drilling Supervisor (Nigh)	G. Othen	Service Company	26
Drilling Engineer	P. Zehetleitner	Diamond Offshore	50
Geologist	R. Tolliday	Catering	8
Geologist	P. Boothby		
Geologist	R. Leech		

Safety, Inspections and Drills

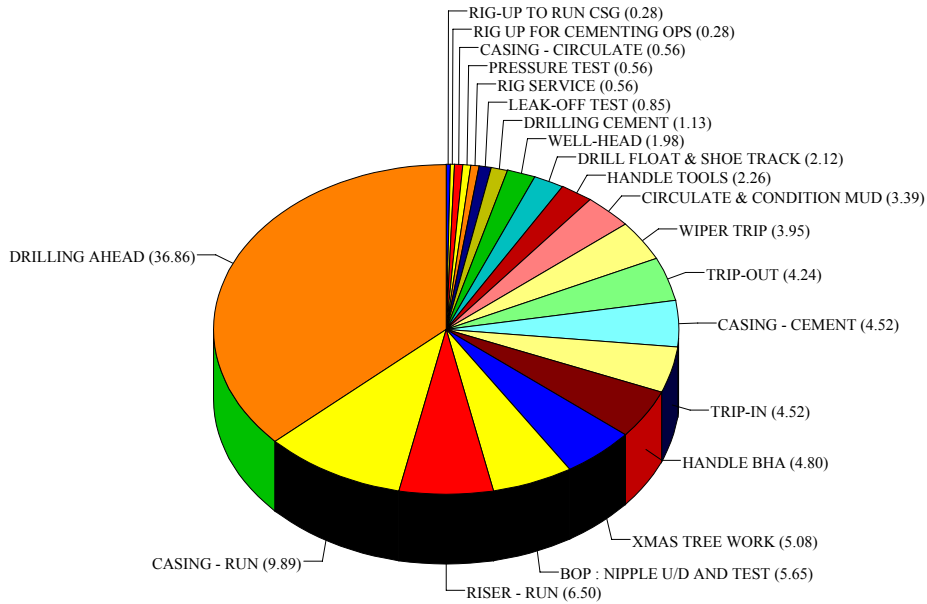
Shakers, Volumes and Losses Data						ENGINEER D. Dixon / G Garrick		
SHAKER 1	120 x 4	VOLUME AVAILABLE (bbl) =			1412	LOSSES (bbl) =		COMMENTS Prepared clean up pills.
SHAKER 2	120 x4	ACTIVE	443	MIXING	DOWNHOLE	0.00		
SHAKER 3	84 x 4	HOLE	367	SLUG	SURF. + EQUIP	0.00		
SHAKER 4	84 x 4	RESERVE	602	HEAVY	DUMPED	1,253.00		
SHAKER 5								

Anchors		A 1	320	A 2	260	A 3	185	A 4	365	A 5	155
		A 6	205	A 7	170	A 8	200				

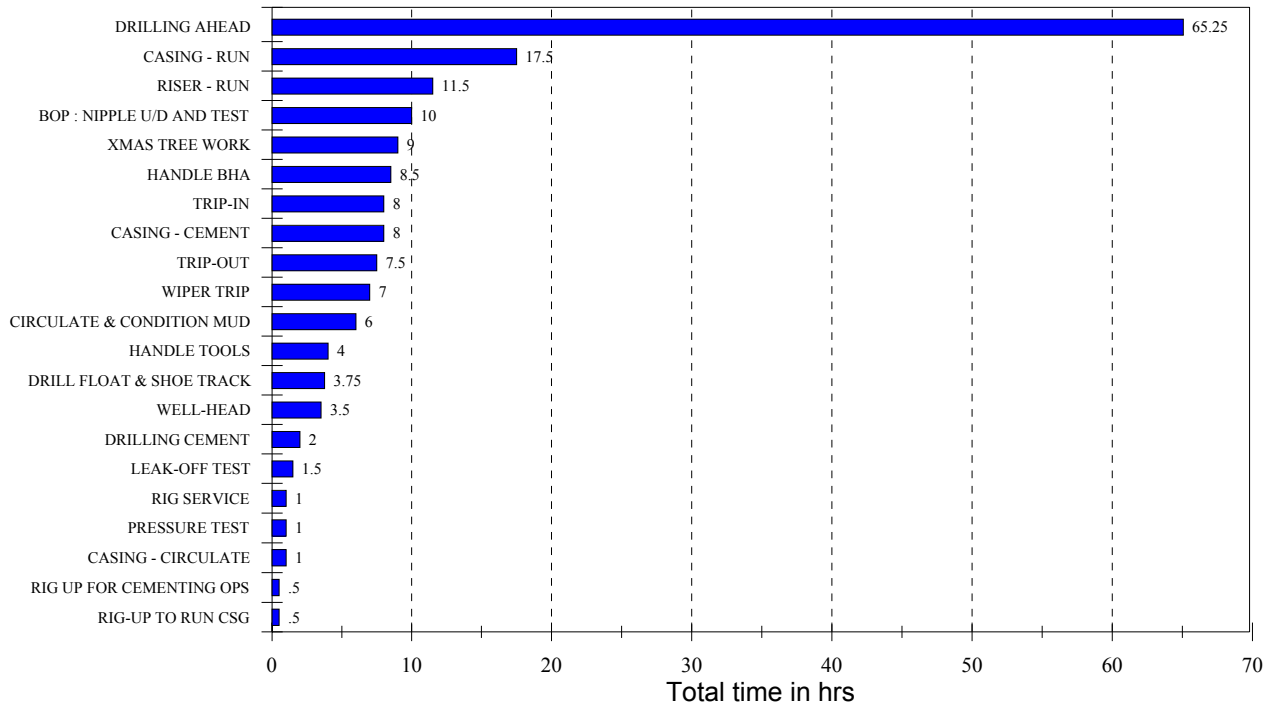
Workboats								Weather		Rig / Sea Data		
	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)				
Pacific Sentinel	To Gee	349	1190	250	165		300		VISIBILITY(nm)	12	RIS.TENS (klbs)	232
Pacific Conqueror	At Rig	441		640	200				WIND SP. (kts)	40.0	VDL (mt)	1,990
									WIND DIR (deg)	330	WAVES (m)	1.9
									PRES.(mbars)	1004	SWELL (m)	1.8
									AIR TEMP (C)	15.0		

Total move time (hrs)	14.50	Total prod. time since spud (hrs) :	177.00
Total time on well excluding move (hrs)	177.50	Total troub. time since spud (hrs)	0.50
		% Trouble time	0.28

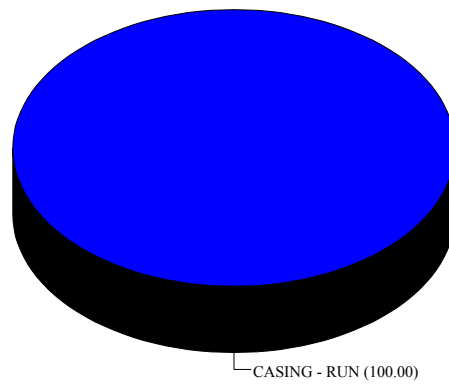
Productive Time by Op.



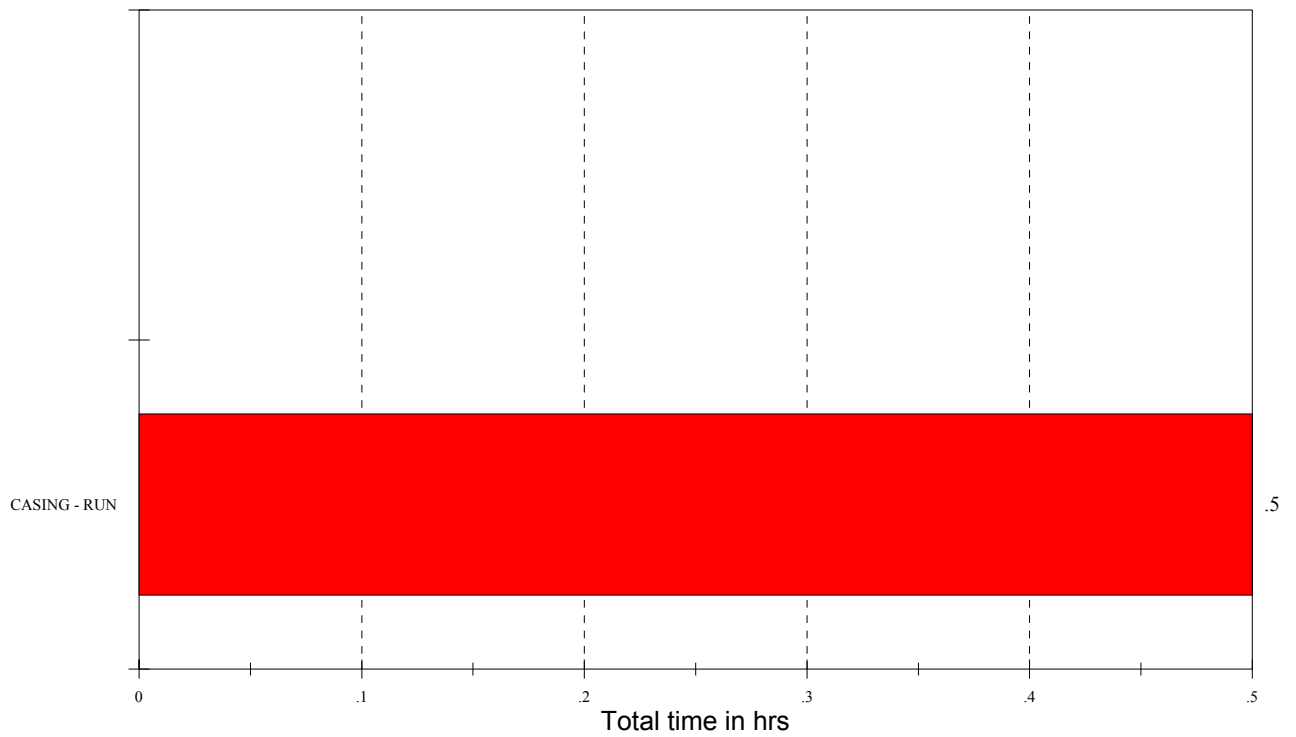
Productive time by Operation



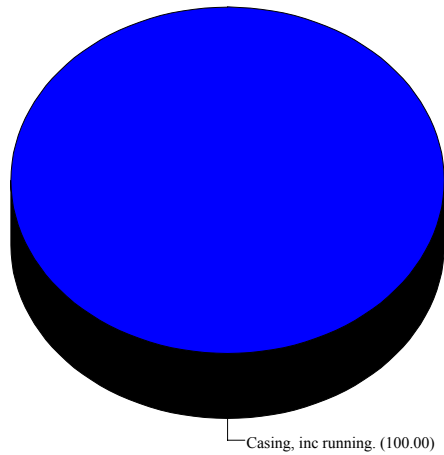
Trouble Time by Op.



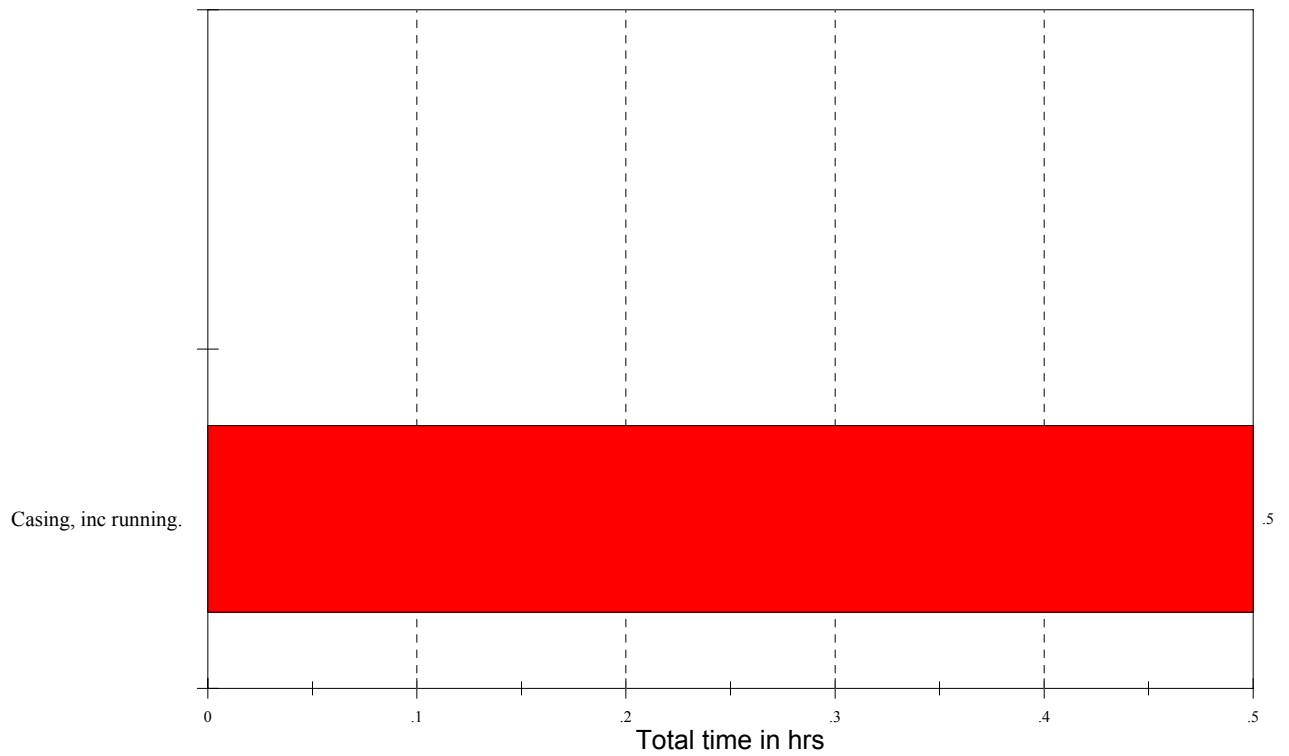
NPT by Operation



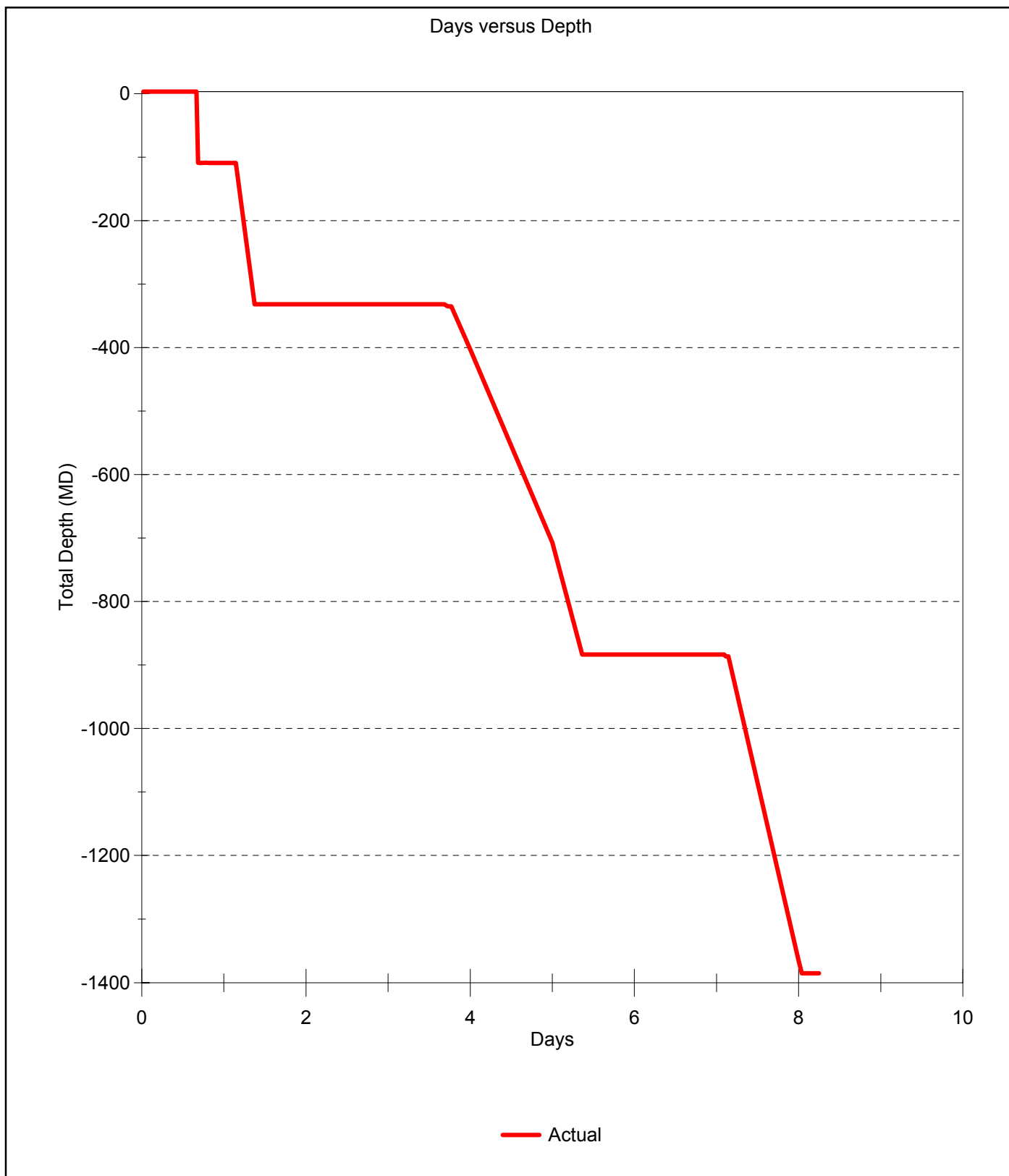
Root Cause Analysis



Root Cause Analysis



DEPTH @ 24:00 = 1,365.0m after 8.00 days since spud



DATE Jun 28, 2002

FROM : G. Howard / Zehetleitner
TO : C. Allport / R. King

Patricia-2

VIC/L21

Well Data		DEPTH (mBRT)	1,385.0	CUR. HOLE SIZE (")	8.50	AFE COST \$	11,852,851
COUNTRY	AUSTRALIA	TVD (mBRT)	701.2	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
FIELD	GIPPSLAND SUB-BASIN	PROGRESS (m)	20.0	SHOE TVD (mBRT)	700	DAILY COST :	\$1,597,187.00
DRILL CO.	DIAMOND OFFSHORE	DAYS ON WELL	9.00	FIT (sg)	1.40	CUM COST :	\$6,223,807.00
RIG	OCEAN BOUNTY	DAYS +/- CURVE	-2.70	LOT (sg)	0.00		
RT ABOVE SL (m)	25.0	CURRENT OP @ 0600 Running production liner on drill pipe to TD.					
WATER DEPTH (m) LAT	52.5	PLANNED OP. Set liner hanger. Release running tool & washpipe and pull out of hole. Run completion.					
RT TO SEABED (m)	77.5						

Summary of period 0000 to 2400 hrs

Drilled 8 1/2" Hole to TD at 1385m MD. Circulated clean & flow checked. Wiper Trip to 9 5/8" casing shoe.
Ran 6 5/8" production liner (sand screens) w/ linerhanger & inner washpipe on drill pipe to 790m.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 28, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
PH	P		DA	00:00	01:00	1.00	1,385	Continued drilling 8 1/2" Hole F /- 1365m to 1385m (TVD 701.15m)
PH	P		CMD	01:00	01:30	.50	1,385	Circulated bottoms up. (Shakers clean). Flow checked.
PH	P		WT	01:30	06:00	4.50	1,385	Wiper trip back to shoe. Flowcheck at 9 5/8" shoe. RIH to bottom. Broke circulation @ 1370m. Tagged bottom. No fill. Hole in good shape. TQ&Drag@ TD: TQ:7k(10 rpm), 7k(20), 7k(30) - Drag: PU WT 220k SO WT 200k.
PH	P		CMD	06:00	06:30	.50	1,385	Circulated & spotted Flo Pro SF from 1385 to 720m
PH	P		TO	06:30	09:00	2.50	1,385	Flow checked. Pulled out of hole from 1385 to 760m. Flow check @ 9 5/8" shoe.
PH	P		CMD	09:00	10:00	1.00	1,385	Pumped pre-wash pill & circulated hole to 1.08 SG KCL Brine.
PH	P		TO	10:00	13:00	3.00	1,385	Continued to pull out of hole. Flow check prior to BOPs, LD jars, removed radioactive source and downloaded FEWD data. LD PDM.
PH	P		RRC	13:00	14:00	1.00	1,385	Rigged up to run 6.625" production liner (sand screens). Held JSA.
PH	P		CRN	14:00	19:00	5.00	1,385	RU & ran 6.625" production liner (Excluder 2000 sand screens).
PH	P		RRC	19:00	20:30	1.50	1,385	PU XO's & 3 jts blank 7" liner. Rigged up to run 2.875" inner wash string. Held JSA. Repaired power tong.
PH	P		CRN	20:30	24:00	3.50	1,385	Ran 2.875" inner wash string to 490m.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jun 29, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
PH	P		CRN	00:00	03:30	3.50	1,385	Ran 2.875" inner wash string & landed on no go. Spaced out with required pup joints.
PH	P		CRN	03:30	04:15	.75	1,385	Held JSA. Picked up liner hanger/packer assembly with running tool installed and made up tail pipe to the 2 7/8" inner wash string.
PH	P		CRN	04:15	04:30	.25	1,385	Ran in hole with liner on 5" drill pipe to 545m.
PH	P		CMD	04:30	05:00	.50	1,385	Circulated liner volume with un-inhibited clean brine. Checked for leaks.
PH	P		CRN	05:00	06:00	1.00	1,385	Continued to run in hole liner on drill pipe to 790m.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	12.0	Jun 20, 2002	Jun 20, 2002	12.0	0.50	0.0	0.0
RIG-UP/PRESPUD	2.5	Jun 20, 2002	Jun 20, 2002	14.5	0.60	0.0	0.0
CONDUCTOR HOLE	4.0	Jun 20, 2002	Jun 20, 2002	18.5	0.77	0.0	112.0
CONDUCTORS	5.5	Jun 20, 2002	Jun 20, 2002	24.0	1.00	112.0	112.0
SURFACE HOLE	15.0	Jun 21, 2002	Jun 21, 2002	39.0	1.63	112.0	334.0
SURFACE CASING	41.0	Jun 21, 2002	Jun 23, 2002	80.0	3.33	334.0	334.0
INTERMEDIATE HOLE (1)	60.5	Jun 23, 2002	Jun 25, 2002	140.5	5.85	334.0	884.0
INTERMEDIATE CASING (1)	29.8	Jun 25, 2002	Jun 27, 2002	170.3	7.09	884.0	884.0
PRODUCTION HOLE (1)	45.8	Jun 27, 2002	Jun 28, 2002	216.0	9.00	887.0	1,385.0

WBM Data		COST TODAY : \$6,040	CUM. WB MUD COST: \$169,930	CUM. WBM+OBM COST: \$169,930
Type :	Flo Pro	VISCOCITY (sec/qt) :	API FLUID LOSS (cm3/30min) :	Cl :
FROM :	Pit	PV (cps):	FILIER CAKE (32nds inch) :	K+C*1000 :
TIME :	15:00	YP (lb100sq.ft):	HTHPFL (cm3/30min) :	HARD/Ca :
WEIGHT (sg) :	1.08	GEL 10s/10m/100m (lb100sq.ft) :	HTHP CAKE (32nds inch) :	MBT (ppb) :
TEMP (C) :		Fann 3/6/100 :		PM :
				PF :
				SOLIDS (%vol) :
				H2O (%vol) :
				OIL (%vol) :
				SAND :
				PH :
				PHPA (ppb) :

Bit Data for Bit # 4 IADC # 4 1 7				Wear											
				I	O1	D	L	B	G	O2	R				
				1	2	WO	G	E	I	WT	TD				
SIZE (") :	8.50			NOZZLES				Drilled over the last 24 hrs				Calculated over the bit run			
MANUFACTURER :	Reed	AVE WOB (k-lbs) :	10	1 X14	METERAGE (m) :				20	CUM.METERAGE (m) 501					
TYPE :	EPH-41-ALKDH	AVE RPM :	130	1 X14	ON BOTTOM HRS :				1.0	CUM. ON BOT. HRS : 13.8					
SERIAL # :	M-25484	FLOW (gpm) :	580	1 X14	IADC DRILL. HRS :				1.0	CUM.IADC DRILL HRS: 22.0					
DEPTH IN (m RT) :	884	PUMP PRESS. (psi):	1,750	X	TOTAL REVS :				7,800	CUM.TOT. REVS : 107,640					
DEPTH OUT (m RT) :	1385	HSI (hp/sqi) :	8.161	X	ROP (m/hr):				20.0	ROP (m/hr): 22.8					

BHA # 4 Length (ft) :1,266.8				D.C. (1) ANN. VELOCITY (mpm): 143			
WT BLW JAR(k-lbs):		STRING WT(k-lbs) :	220	TRQE MAX (ft-lbs):	7,000	D.C. (2) ANN VELOCITY (mpm): 0	
BHA WT(k-lbs) :	16	PICK UP WT(k-lbs) :	220	TRQE ON (ft-lbs):	6,000	H.W.D.P. ANN VELOCITY (mpm): 91	
		SLK OFF WT(k-lbs) :	200	TRQE OFF (ft-lbs):	6,000	D.P. ANN VELOCITY (mpm) : 91	

BHA DESCRIPTION : 81/2" bit,motor,MPT,MWD,pulser,float sub,3xHWDP,jar,3xHWDP,93 Joints 5" Drill pipe,30xHWDP

TOOL DESCRIPTION	HRS	SERIAL #	COMMENT
Motor	27.0	675188	
MPT Tool	27.0	DM-01540 M3	
RLL Tool	27.0	DM-1537	
		HNRL	
Pulser	27.0	DM-01528 K6	
Jars	0.0	DAH-2122	

Survey		MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/30m)	N/S (m)	E/W (m)	TOOL TYPE
Last Tool Type :	MWD	1,281	701	90.98	232.	232.7	756.1	1.49	-469.3	-592.8	MWD
Magnetic Declination :	0.00	1,310	701	89.67	232.	232.7	785.0	1.36	-486.8	-615.8	MWD
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		1,368	701	90.46	234.	234.0	843.0	0.93	-521.5	-662.4	MWD

Bulk Stocks On Rig				
STOCK TYPE	START	USED	REC'D	STOCK
Barite	SX	336		336
Bentonite	SX	1546		1546
G-neat	SX	2166		2166
Pot Water	M3	98	26	235
Drill Water	M3	587	55	532
Heli-fuel	ltr	1882	1115	767
Base Oil	M3			0
Rig Fuel	M3	439	8	431
Brine	M3	64		64

Pump Data										
Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National 1	6.00	64	97	286	2090	30	240	1180	9.3
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3	National 1	6.00	0	97	0	2090	50	385	1180	9.3

Casing						
DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	872.4	700.0		1.40 1.40	Mixed and pumped 378 sx og G cement, 78 bbls of slurry @ 1.89 sg. Displaced and bumped plug pressue tested casing to 3000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
Well head	2.35	8.575	47.0	L-80	New Vam
X/over (NK3SB Pin x New Vam Box)	3.17	8.575	47.0	L-80	Vam x NK3
Pup Joint	3.07	8.575	47.0	L-80	NK3SB
Pup Joint	3.07	8.575	47.0	L-80	NK3SB
9 5/8" Casing	746.58	8.575	47.0	L-80	NK3SB
Float Joint	13.17	8.575	47.0	L-80	NK3SB
Intermediate Joint	12.04	8.575	47.0	L-80	NK3SB
Shoe Joint	12.54	8.575	47.0	L-80	NK3SB

Personnel : on Site =92			
JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	G. Howard	OMV	8
Drilling Supervisor (Nigh)	G. Othen	Service Company	28
Drilling Engineer	P. Zehetleitner	Diamond Offshore	48
Geologist	R. Tolliday	Catering	8
Geologist	P. Boothby		
Geologist	R. Leech		

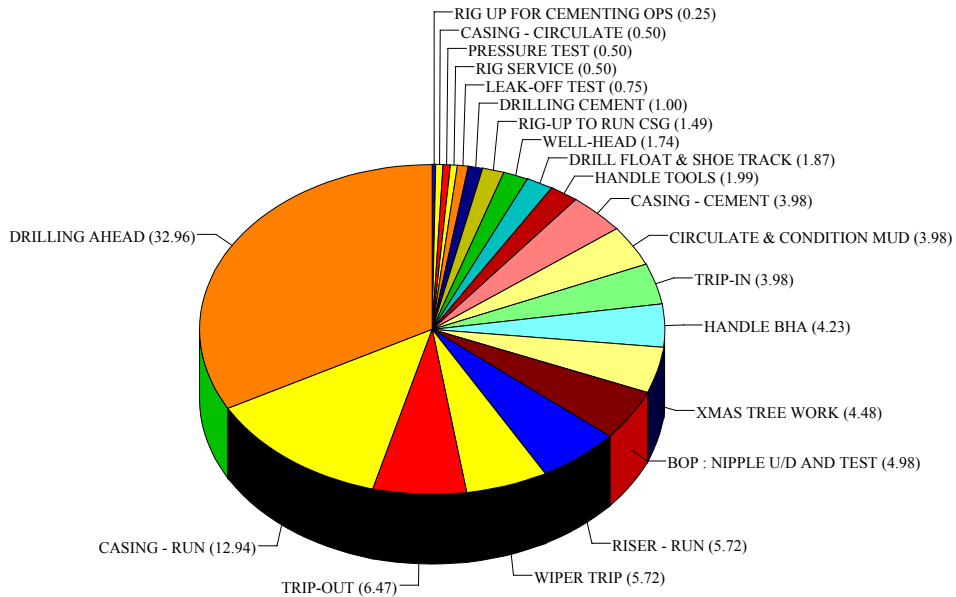
Safety, Inspections and Drills Summary

Anchors		A 1	320	A 2	260	A 3	185	A 4	365	A 5	155
		A 6	205	A 7	170	A 8	200				

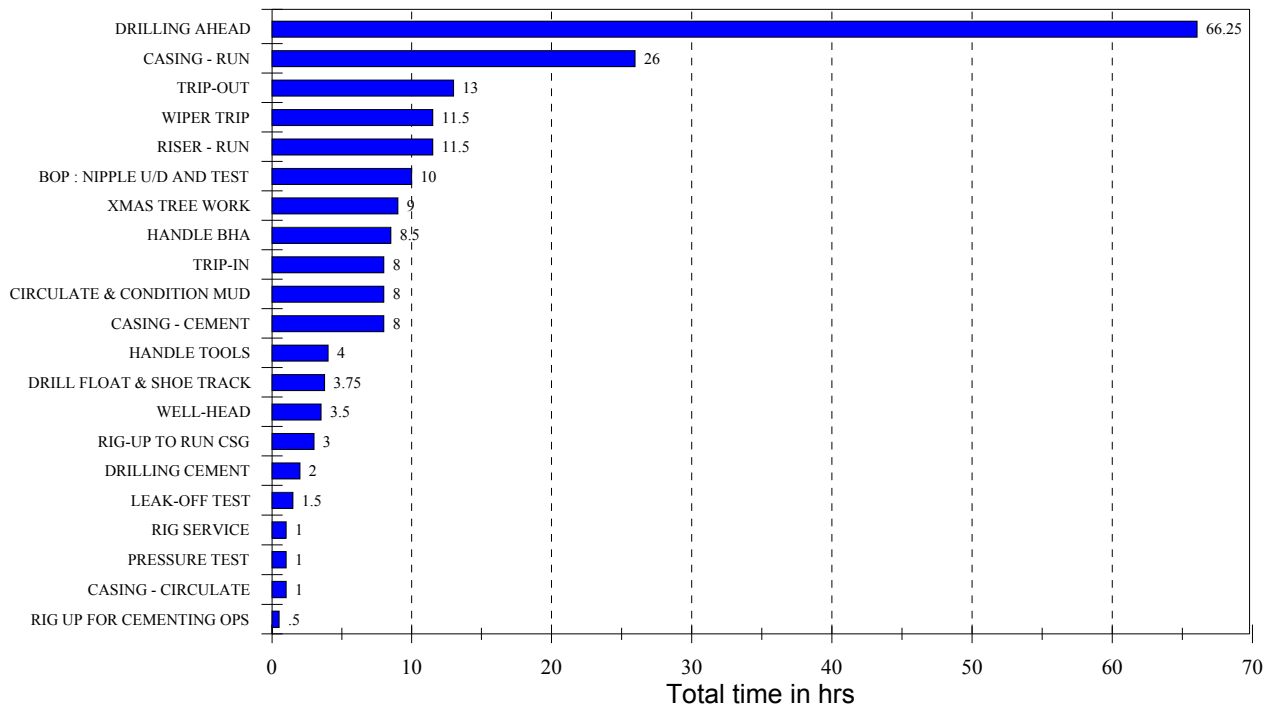
Workboats								Weather		Rig / Sea Data	
Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)	VISIBILITY(nm)		RIS.TENS (kibs)	
Pacific Sentinel	To Rig	349	1190	250	165		300	8		232	
Pacific Conqueror	At Rig	434		640	194			40.0		1,990	
								200		2.4	
								1019		4.3	
								13.0			

Total move time (hrs)	14.50	Total prod. time since spud (hrs) :	201.00
Total time on well excluding move (hrs)	201.50	Total troub. time since spud (hrs)	0.50
		% Trouble time	0.25

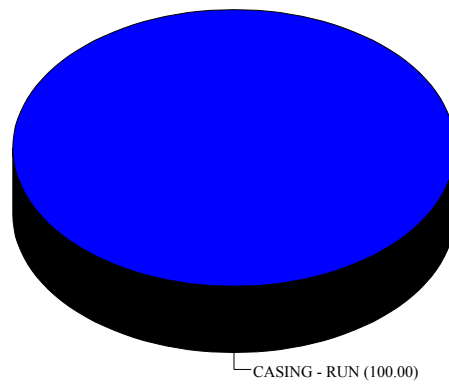
Productive Time by Op.



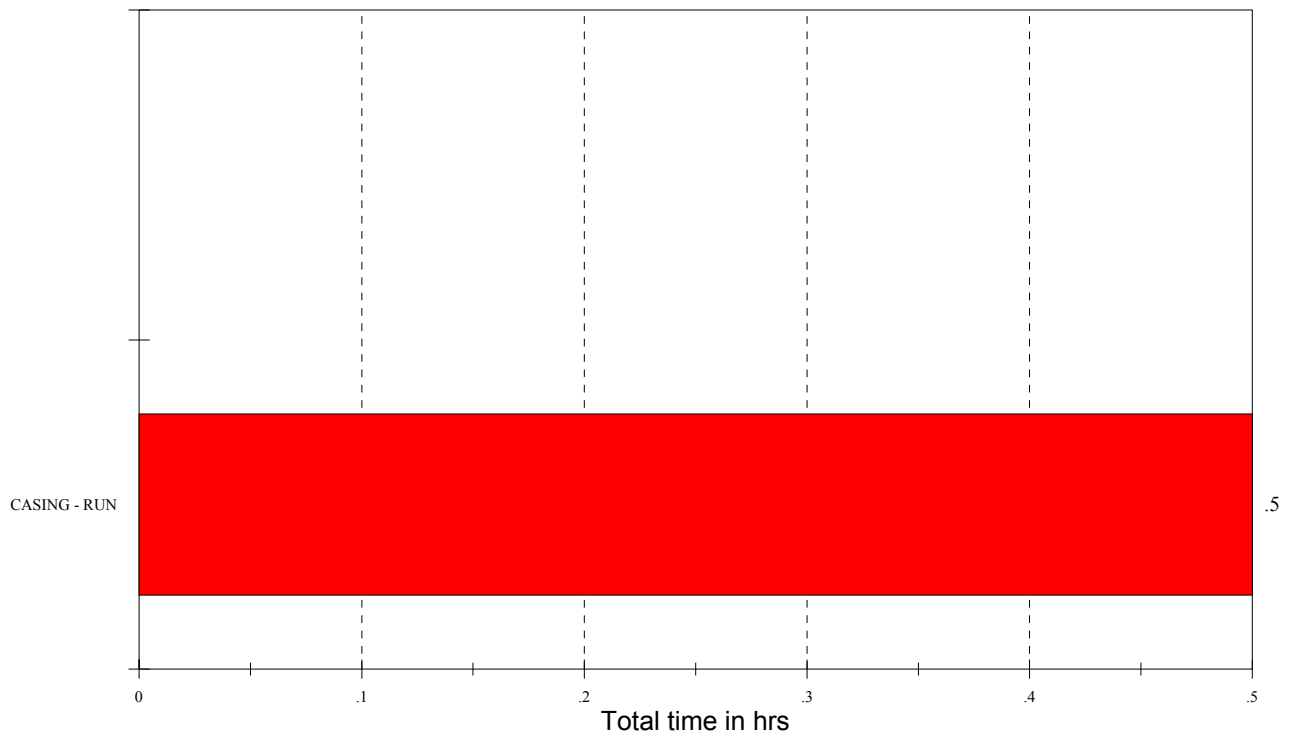
Productive time by Operation



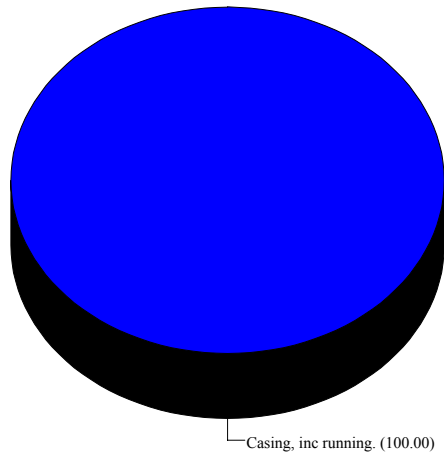
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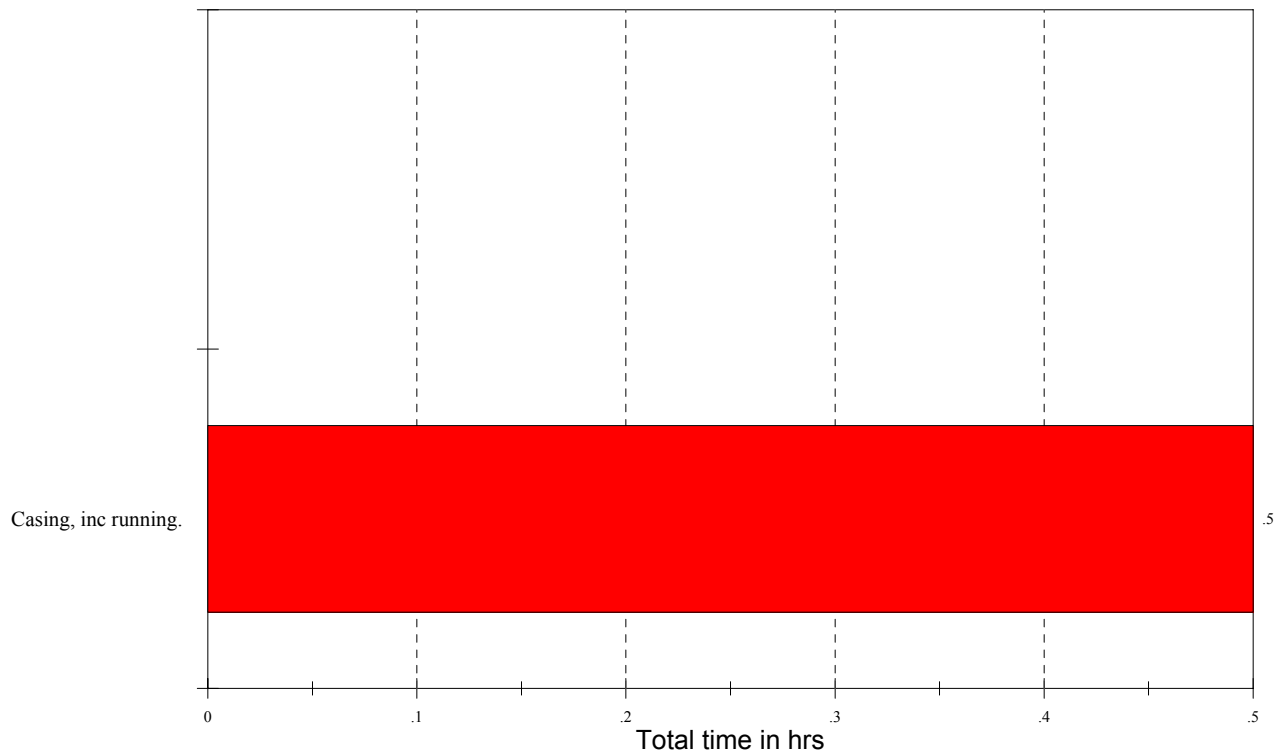
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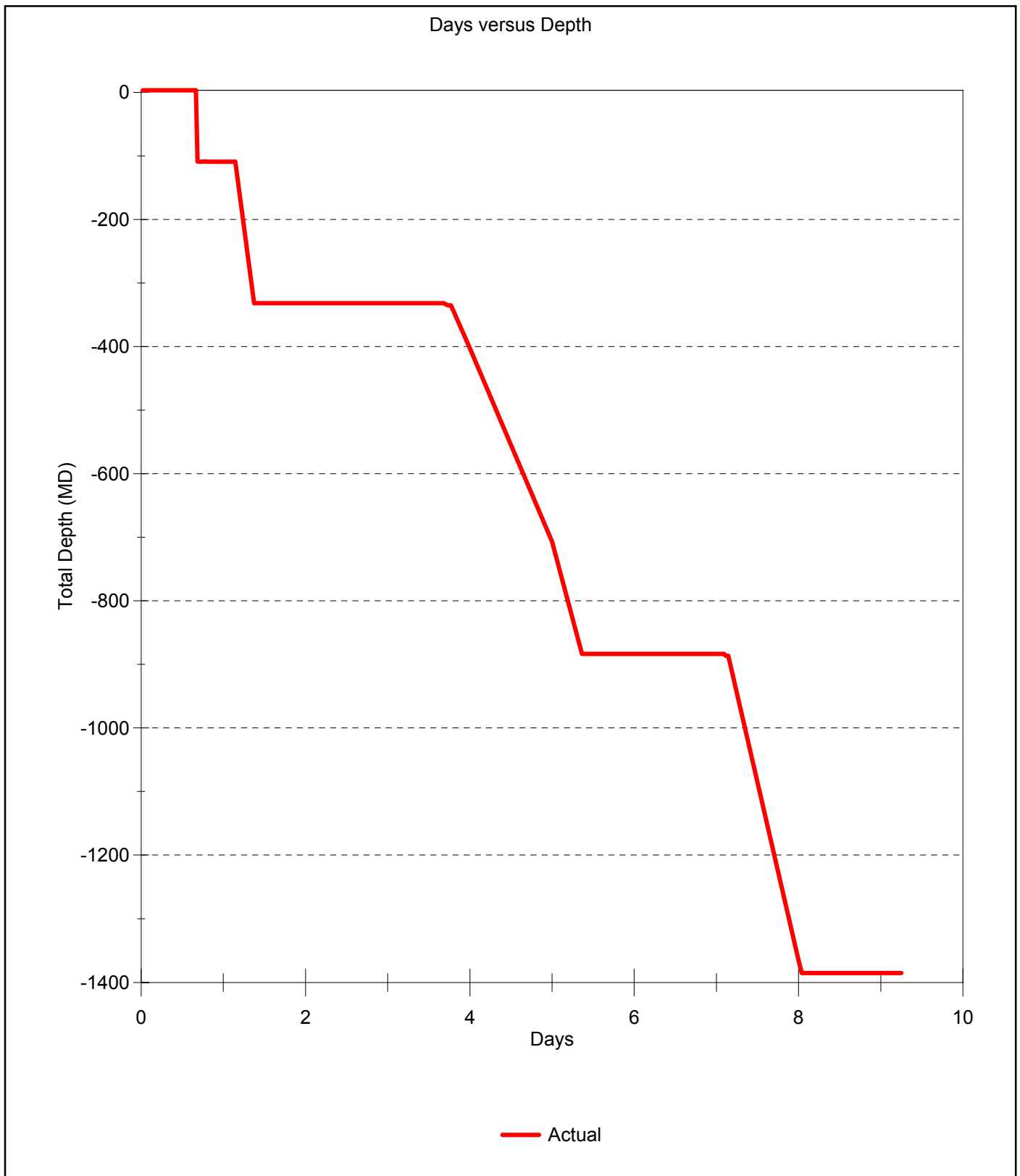
Root Cause Analysis



Root Cause Analysis



DEPTH @ 24:00 = 1,385.0m after 9.00 days since spud



DATE Jun 29, 2002

FROM : G. Howard / Zehetleitner
TO : C. Allport / R. King

Patricia-2

VIC/L21

Well Data		DEPTH (mBRT)	1,385.0	CUR. HOLE SIZE (")	8.50	AFE COST \$	11,852,851
COUNTRY	AUSTRALIA	TVD (mBRT)	701.2	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
FIELD	GIPPSLAND SUB-BASIN	PROGRESS (m)	0.0	SHOE TVD (mBRT)	700	DAILY COST :	\$435,428.00
DRILL CO.	DIAMOND OFFSHORE	DAYS ON WELL	10.00	FIT (sg)	1.40	CUM COST :	\$6,659,235.00
RIG	OCEAN BOUNTY	DAYS +/- CURVE	-2.25	LOT (sg)	0.00		
RT ABOVE SL (m)	25.0	CURRENT OP @ 0600 Run completion & space out.					
WATER DEPTH (m) LAT	52.5	PLANNED OP. Land completion and prepare to test.					
RT TO SEABED (m)	77.5						

Summary of period 0000 to 2400 hrs

Ran production liner (sand screens) w/ packer & hanger on drill pipe to 1380m. Cleaned up open hole. Tried to set packer & hanger without success. Released running tool and POOH. Ran back again w/ tieback-sealing assembly and set packer & hanger mechanically.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 29, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
PC	P		CRN	00:00	03:30	3.50	1,385	Ran 2.875" inner wash string & landed on no go. Spaced out with required pup joints.
PC	P		CRN	03:30	04:15	.75	1,385	Held JSA. Picked up liner hanger/packer assembly with running tool installed and made up tail pipe to the 2 7/8" inner wash string.
PC	P		CRN	04:15	04:30	.25	1,385	Ran in hole with liner on 5" drill pipe to 545m.
PC	P		CMD	04:30	05:00	.50	1,385	Circulated liner volume with un-inhibited clean brine. Checked for leaks.
PC	P		CRN	05:00	07:30	2.50	1,385	Continued to run in hole. PU stand w/ side entry sub & tagged bottom at 1383.5m. 1.5m fill.
PC	P		CIC	07:30	12:00	4.50	1,385	Pulled back 10m, RU cement hose and circulated in 25 bbls HI-VIS pill, 324 bbl 1.08 SG un-inhibited brine. Pumped & spotted 160 bbls wellzyme across open hole. Pressure tested cement line w/ 5000 psi for 5 min. Dropped ball.
PC	TP	PKR	RPK	12:00	15:00	3.00	1,385	Displaced ball with clear un-inhibited brine. Ball landed with 850 psi after 22.6 bbl. Applied shear pressure of 2500 psi to set SLZXP packer & hanger and held pressure for 10 min. No indication on pick up weight that packer & hanger has been set. Bled off pressure. Tried to pressure test annulus w/ 1500 psi without success. Applied 2600 psi on dp and checked PU weight. No indication for setting. Applied 3800 psi to initiate second shear to pump out ball seat and checked PU weight. No indication. Decided to run to bottom to put string into compression and released running tool by applying 6,000 ft*lbs torque on left-hand turn.
PC	TP	PRF	TO	15:30	17:15	1.75	1,385	POOH and laid down running tool. Indications that string was put into compression while applying first shear pressure of 2500 psi due to big heaves accidentally, which released running tool before packer & hanger could be set.
PC	P		TO	17:15	20:30	3.25	1,385	POOH and laid down 54 jts of 2.875" wash pipe.
PC	TP	PKR	HBH	20:30	22:00	1.50	1,385	MU tie-back/sealing assembly - XN shoulder plus sealing elements on drill pipe w/ 300m of 5" HWDP's and 2 stands of 8" DC's- to set packer & hanger mechanically.
PC	TP	PKR	TI	22:00	24:00	2.00	1,385	Ran in hole with tie-back/seal assembly to 800m.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jun 30, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
PC	TP	PKR	TI	00:00	01:00	1.00	1,385	Continued to run in hole to top of PBR.
PC	TP	PKR	RPK	01:00	01:30	.50	1,385	Landed out tieback-sealing assembly on PBR, applied 60klbs pushdown weight, rotated 1 turn right and set packer & hanger mechanically. Clear weight indication. Pressure tested annulus w/ 1500 psi. for 10 min. ok.
PC	TP	PKR	TO	01:30	03:30	2.00	1,385	POOH & SLM running string on the way out.
CTB	P		TI	03:30	06:00	2.50	1,385	MU jet & wear bushing retrieving tool. RIH, retrieved wear bushing and jetted out Xmas Tree tubing hanger profile and BOP. POOH and laid down wear bushing.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	12.0	Jun 20, 2002	Jun 20, 2002	12.0	0.50	0.0	0.0
RIG-UP/PRESPUD	2.5	Jun 20, 2002	Jun 20, 2002	14.5	0.60	0.0	0.0
CONDUCTOR HOLE	4.0	Jun 20, 2002	Jun 20, 2002	18.5	0.77	0.0	112.0
CONDUCTORS	5.5	Jun 20, 2002	Jun 20, 2002	24.0	1.00	112.0	112.0
SURFACE HOLE	15.0	Jun 21, 2002	Jun 21, 2002	39.0	1.63	112.0	334.0
SURFACE CASING	41.0	Jun 21, 2002	Jun 23, 2002	80.0	3.33	334.0	334.0
INTERMEDIATE HOLE (1)	60.5	Jun 23, 2002	Jun 25, 2002	140.5	5.85	334.0	884.0
INTERMEDIATE CASING (1)	29.8	Jun 25, 2002	Jun 27, 2002	170.3	7.09	884.0	884.0
PRODUCTION HOLE (1)	34.8	Jun 27, 2002	Jun 28, 2002	205.0	8.54	887.0	1,385.0
PRODUCTION CSG/LNR(1)	34.5	Jun 28, 2002	Jun 29, 2002	239.5	9.98	1,385.0	1,385.0

WBM Data		COST TODAY : \$19,871		CUM. WB MUD COST: \$189,801		CUM. WBM+OBM COST: \$189,801	
Type :	VISCOCITY (sec/qt) :	API FLUID LOSS (cm3/30min) :	CI :	SOLIDS (%vol) :			
FROM :	PV (cps):	FILIER CAKE (32nds inch) :	K+C*1000 :	H2O (%vol) :			
TIME :	YP (lb100sq.ft):	HTHPFL (cm3/30min) :	HARD/Ca :	OIL (%vol) :			
WEIGHT (sg) :	GEL10s/10m/100m (lb100sq.ft) :	HTHP CAKE (32nds inch) :	MBT (ppb) :	SAND :			
TEMP (C) :	Fann 3/6/100 :		PM :	PH :			
			PF :	PHPA (ppb) :			

BHA #4 Length (ft) :		D.C. (1) ANN. VELOCITY (mpm):		0	
WT BLW JAR(k-lbs):	STRING WT(k-lbs) :	TRQE MAX (ft-lbs):	D.C. (2) ANN VELOCITY (mpm):	0	
BHA WT(k-lbs) :	PICK UP WT(k-lbs) :	TRQE ON (ft-lbs):	H.W.D.P. ANN VELOCITY (mpm):	0	
	SLK OFF WT(k-lbs) :	TRQE OFF (ft-lbs):	D.P. ANN VELOCITY (mpm) :	0	
BHA DESCRIPTION :					
TOOL DESCRIPTION		HRS	SERIAL #	COMMENT	

Survey		MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	"V" SECT (m)	DOGLEG (deg/30m)	N/S (m)	E/W (m)	TOOL TYPE
Last Tool Type :	MWD	1,281	701	90.98	232.	232.7	756.1	1.49	-469.3	-592.8	MWD
Magnetic Declination :	0.00	1,310	701	89.67	232.	232.7	785.0	1.36	-486.8	-615.8	MWD
Survey method :	Min Curvature	1,339	701	89.82	233.	233.4	814.0	0.71	-504.2	-639.0	MWD
		1,368	701	90.46	234.	234.0	843.0	0.93	-521.5	-662.4	MWD

Bulk Stocks On Rig					
STOCK TYPE	START	USED	REC'D	STOCK	
Barite	SX	336		336	
Pot Water	M3	98	27	98	
Drill Water	M3	424	111	313	
Heli-fuel	ltr	482	888	2344	2750
Rig Fuel	M3	418	7	411	
Brine	M3	64	64	0	

Pump Data										
Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNDR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National 1	6.00	0	97	0	0	30	240	1180	9.3
2	National 1	6.00	47	97	93	680	40	310	1180	9.3
3	National 1	6.00	0	97	0	0	50	385	1180	9.3

Casing						
DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	872.4	700.0		1.40 1.40	Mixed and pumped 378 sx og G cement, 78 bbls of slurry @ 1.89 sg. Displaced and bumped plug pressue tested casing to 3000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
Well head	2.35	8.575	47.0	L-80	New Vam
X/over (NK3SB Pin x New Vam Box)	3.17	8.575	47.0	L-80	Vam x NK3
Pup Joint	3.07	8.575	47.0	L-80	NK3SB
Pup Joint	3.07	8.575	47.0	L-80	NK3SB
9 5/8" Casing	746.58	8.575	47.0	L-80	NK3SB
Float Joint	13.17	8.575	47.0	L-80	NK3SB
Intermediate Joint	12.04	8.575	47.0	L-80	NK3SB
Shoe Joint	12.54	8.575	47.0	L-80	NK3SB

Personnel : on Site =95

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	G. Howard	OMV	5
Drilling Supervisor (Nigh)	G. Othen	Service Company	34
Drilling Engineer	P. Zehetleitner	Diamond Offshore	48
Geologist	R. Tolliday	Catering	8
Geologist	P. Boothby		
Geologist	R. Leech		

Safety, Inspections and Drills Summary

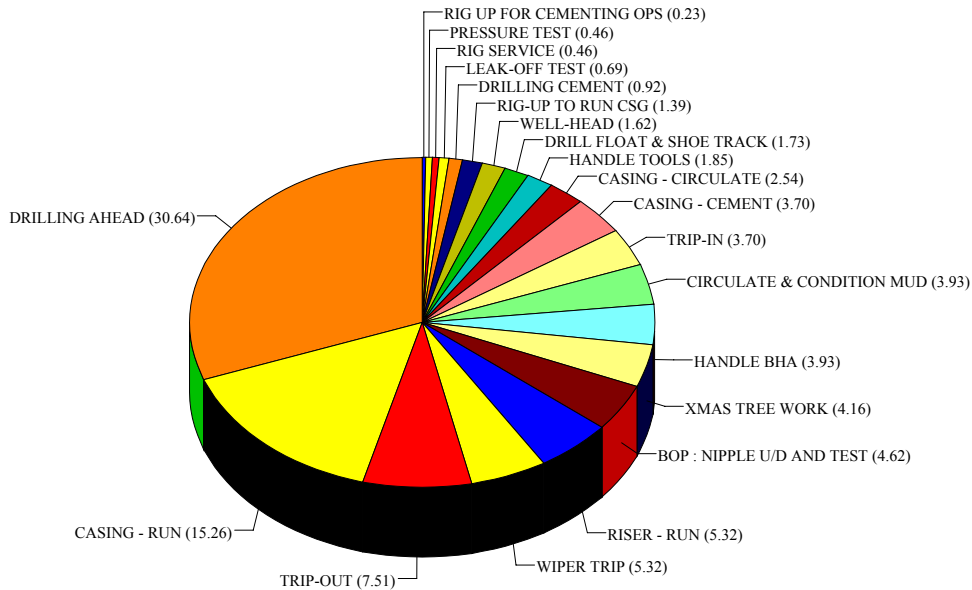
Shakers, Volumes and Losses Data				ENGINEER	Grmae Garrick
SHAKER 1	4x120	VOLUME AVAILABLE (bbl) = 1108		LOSSES (bbl) = 212	COMMENTS 400 bbls of brine was filtered to appx. 35 NTU's for future use as inhibited brine.
SHAKER 2	4x120	ACTIVE	403	MIXING	
SHAKER 3	4x84	HOLE	405	SLUG	
SHAKER 4	4x84	RESERVE	300	HEAVY	
SHAKER 5					
				DOWNHOLE	
				SURF. + EQUIP	0.00
				DUMPED	212.00

Anchors		A 1	320	A 2	260	A 3	185	A 4	365	A 5	155
		A 6	205	A 7	170	A 8	200				

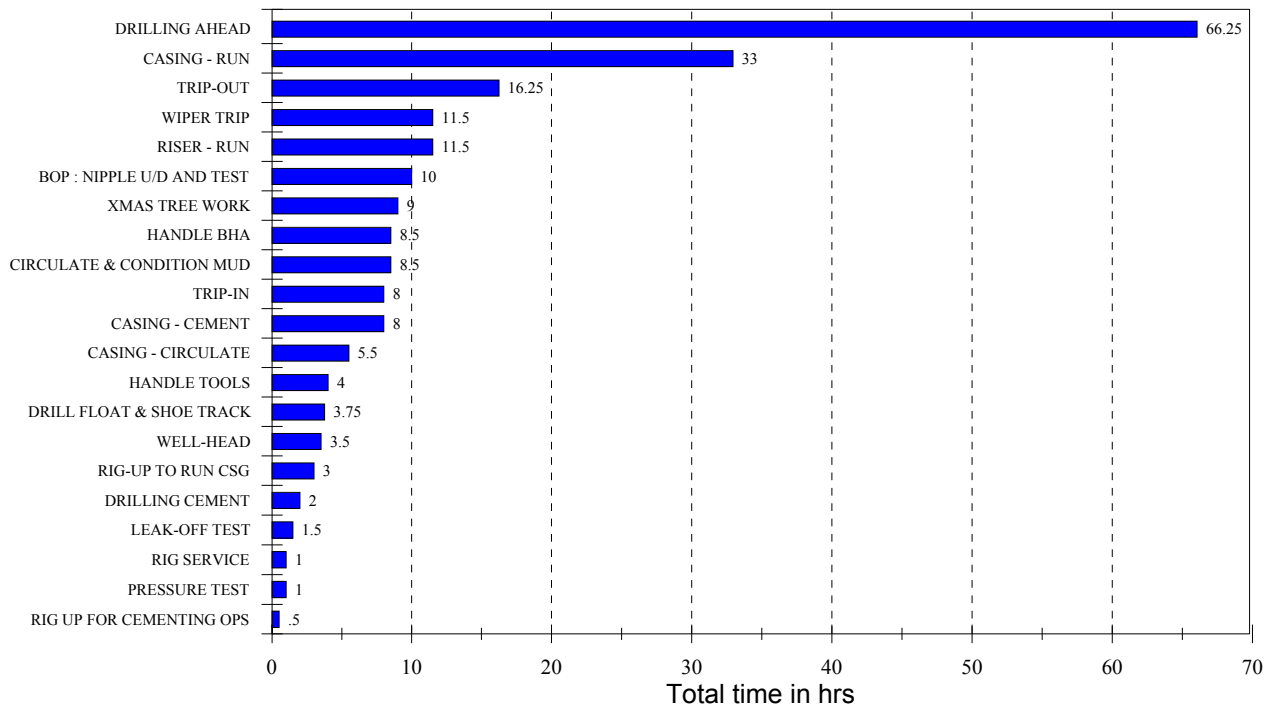
Workboats								Weather		Rig / Sea Data		
	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)	VISIBILITY(nm)	10	RIS.TENS (klbs)	232
Pacific Sentinel	at Rig	315	1190	240	545		300		WIND SP. (kts)	35.0	VDL (mt)	1,883
Pacific Conqueror	at Rig	427		640	190				WIND DIR (deg)	240	WAVES (m)	2.4
									PRES.(mbars)	1023	SWELL (m)	4.6
									AIR TEMP (C)	12.0		

Total move time (hrs)	14.50	Total prod. time since spud (hrs) :	216.25
Total time on well excluding move (hrs)	225.00	Total troub. time since spud (hrs)	8.75
		% Trouble time	3.89

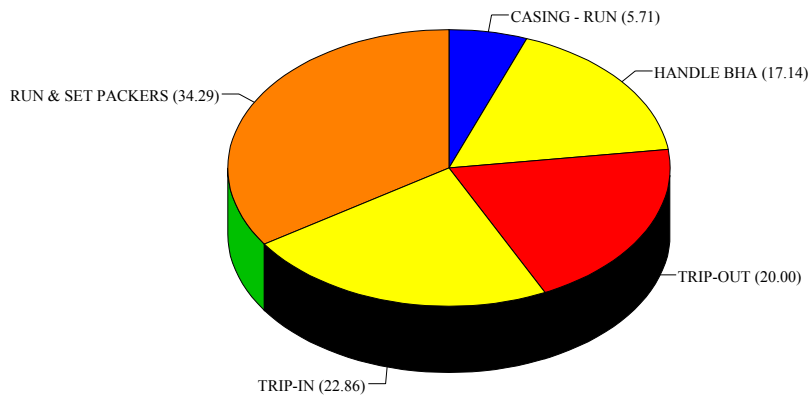
Productive Time by Op.



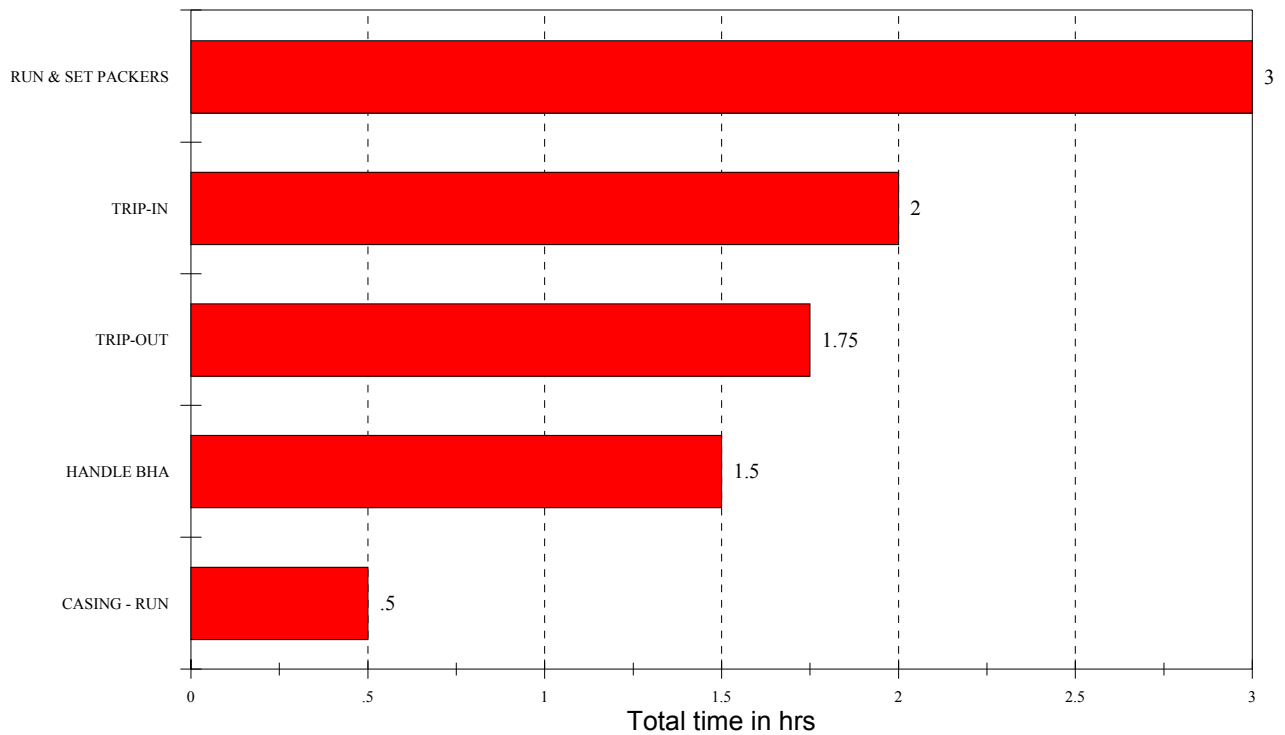
Productive time by Operation



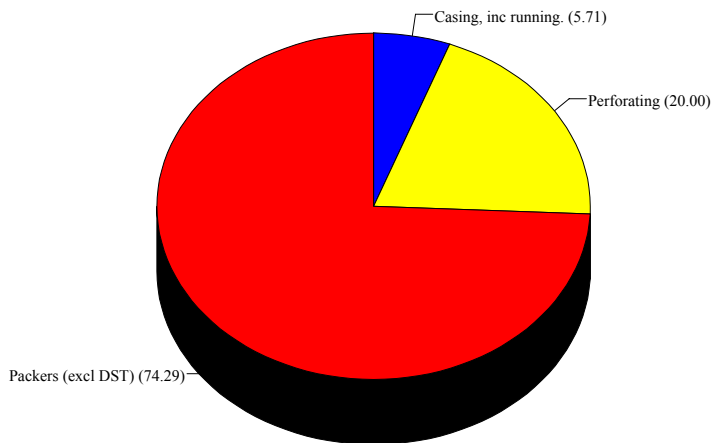
Trouble Time by Op.



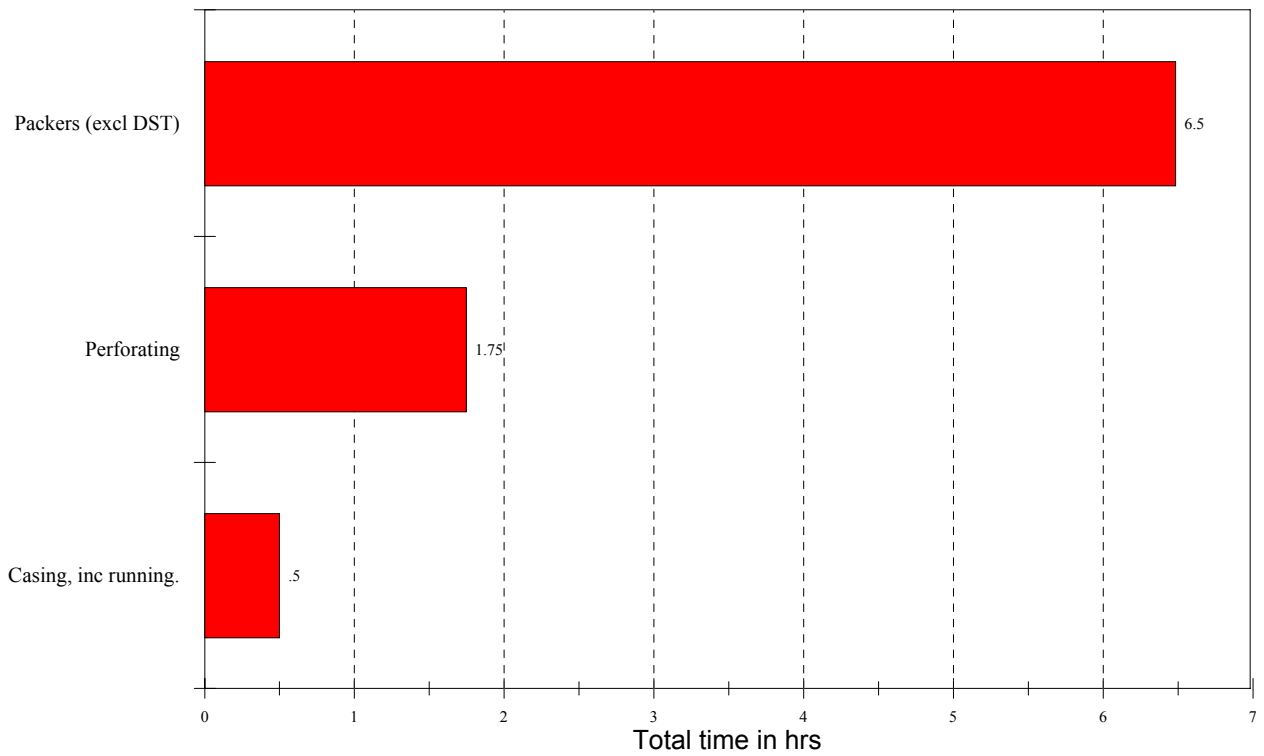
NPT by Operation



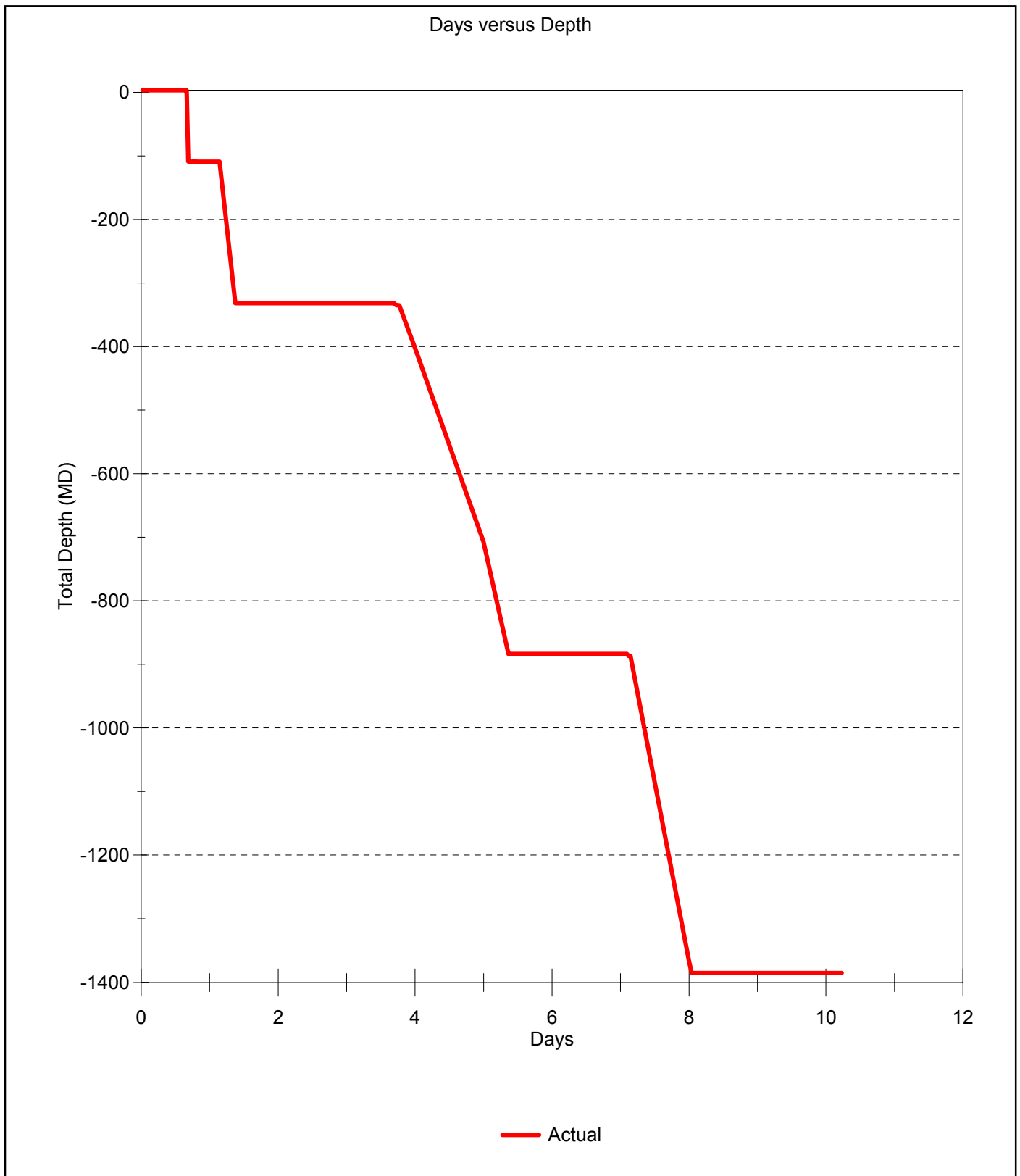
Root Cause Analysis



Root Cause Analysis



DEPTH @ 24:00 = 1,385.0m after 10.00 days since spud



OMV Australia

DAILY DRILLING REPORT # 11

DATE Jun 30, 2002

FROM : G. Howard / Othen
TO : C. Allport / R. King

Patricia-2

VIC/L21

Well Data		DEPTH (mBRT)	1,385.0	CUR. HOLE SIZE (")	8.50	AFE COST \$	11,852,851
COUNTRY	AUSTRALIA	TVD (mBRT)	701.2	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
FIELD	GIPPSLAND SUB-BASIN	PROGRESS (m)	0.0	SHOE TVD (mBRT)	700	DAILY COST :	\$395,008.00
DRILL CO.	DIAMOND OFFSHORE	DAYS ON WELL	11.00	FIT (sg)	1.40	CUM COST :	\$7,054,243.00
RIG	OCEAN BOUNTY	DAYS +/- CURVE	-2.60	LOT (sg)	0.00		
RT ABOVE SL (m)	25.0	CURRENT OP @ 0600 Attempting to land tubing hanger.					
WATER DEPTH (m) LAT	52.5	PLANNED OP. Land tubing hanger and proceed with wire line work. Run coiled tubing and induce well.					
RT TO SEABED (m)	77.5						

Summary of period 0000 to 2400 hrs

Ran tie back seal assy on DP, landed out on PBR and mechanically set liner hanger and packer. Ran 5 1/2" NK3SB Tubing and made up tubing hanger. Rigged up Coiled Tubing lifting frame. Made up SSTT on 7" landing joint and landed tie back assy in liner hanger PBR. Prepared to land tubing hanger.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jun 30, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
PC	TP	PKR	TI	00:00	01:00	1.00	1,385	Continued to run in hole to top of PBR.
PC	TP	PKR	RPK	01:00	01:30	.50	1,385	Landed out tieback-sealing assembly on PBR, applied 60klbs pushdown weight, rotated 1 turn right and set packer & hanger mechanically. Clear weight indication. Pressure tested annulus w/ 1500 psi. for 10 min. ok.
PC	TP	PKR	TO	01:30	03:30	2.00	1,385	POOH & SLM running string on the way out.
CTB	P		HT	03:30	06:00	2.50	1,385	MU jet & wear bushing retrieving tool. RIH, retrieved wear bushing and jetted out Xmas Tree tubing hanger profile and BOP. POOH and laid down wear bushing.
CTB	P		RTB	06:00	06:30	.50	1,385	Held JSA. PU 7 1/2" seal assembly w/ No-Go & XO to 5 1/2" NK3SB tubing.
CTB	P		RTB	06:30	10:30	4.00	1,385	RIH w 5 1/2" NK3SB tubing to 683m.
CTB	P		ED	10:30	10:45	.25	1,385	Fire and Abandon Rig Safety Drill.
CTB	P		RTB	10:45	11:30	.75	1,385	PU & MU TRSCS-safety valve assembly. Installed & pressure tested control line & swage lock to 5,000 psi for 10 min.
CTB	P		RTB	11:30	12:30	1.00	1,385	Continued to RIH w/ 5 1/2" tubing, making up across coupling control line protectors every connection and mid joint protectors every mid joint.
CTB	P		RTB	12:30	13:15	.75	1,385	Spaced out tubing w/ pupjoints and stabbed tubing w/ seal assembly 3.5m into upper PBR. (842.9 mRT).
CTB	P		RTB	13:15	16:30	3.25	1,385	PU & MU tubing hanger. Installed 1/2"x1/4" swage lock fitting to the control line and the tubing hanger. Pressure tested the control line and the swage lock fittings to 5,000 psi for 10 min. ok. MU tubing hanger running tool to the tubing hanger and sub sea test tree. Connected umbilical to the SSTT and the tubing hanger running tool. Pressure tested the umbilical and the control line to the TRSSV with 5,000 psi for 10min. ok.
CTB	P		RTB	16:30	19:00	2.50	1,385	Made up SSTT on 7" Landing joint, picked up SSLV made up to landing joint. RIH with 4 space out pup joints and 7" landing joint, make up circulating sub and landed tie back assembly in liner hanger PBR with pumps ticking over. Space out tubing hanger. POOH and laid out landing joint.
CTB	P		CTO	19:00	20:30	1.50	1,385	Held JSA, Rigged up Coil Tubing lift frame
CTB	P		CTO	20:30	23:00	2.50	1,385	Picked up and made up Flow head, installed coflex hose and cement hose.
CTB	P		CTO	23:00	24:00	1.00	1,385	RIH to 3m above land out. Rigged up and prepared flow head to land out.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jul 01, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
CTB	P		CTO	00:00	01:00	1.00	1,385	Continued to prepare flow head.

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
CTB	P		PT	01:00	03:00	2.00	1,385	Pressure tested Lubricator valve 3500 psi, 10 min. Pressure tested flow head and flow line against choke manifold and Sub sea lubricator valve 3500 psi.
CTB	P		RU	03:00	04:00	1.00	1,385	Rigged up BOP Lubricator, and installed on flow head.
CTB	P		CMD	04:00	05:00	1.00	1,385	Circulated 270 bbls of clean filtered inhibited completion brine.
CTB	P		PT	05:00	06:00	1.00	1,385	Attempting to land tubing hanger.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	12.0	Jun 20, 2002	Jun 20, 2002	12.0	0.50	0.0	0.0
RIG-UP/PRESPUD	2.5	Jun 20, 2002	Jun 20, 2002	14.5	0.60	0.0	0.0
CONDUCTOR HOLE	4.0	Jun 20, 2002	Jun 20, 2002	18.5	0.77	0.0	112.0
CONDUCTORS	5.5	Jun 20, 2002	Jun 20, 2002	24.0	1.00	112.0	112.0
SURFACE HOLE	15.0	Jun 21, 2002	Jun 21, 2002	39.0	1.63	112.0	334.0
SURFACE CASING	41.0	Jun 21, 2002	Jun 23, 2002	80.0	3.33	334.0	334.0
INTERMEDIATE HOLE (1)	60.5	Jun 23, 2002	Jun 25, 2002	140.5	5.85	334.0	884.0
INTERMEDIATE CASING (1)	29.8	Jun 25, 2002	Jun 27, 2002	170.3	7.09	884.0	884.0
PRODUCTION HOLE (1)	34.8	Jun 27, 2002	Jun 28, 2002	205.0	8.54	887.0	1,385.0
PRODUCTION CSG/LNR(1)	38.0	Jun 28, 2002	Jun 30, 2002	243.0	10.13	1,385.0	1,385.0
COMPLETION/TIE-BACK	20.5	Jun 30, 2002	Jun 30, 2002	263.5	10.98	1,385.0	1,385.0

WBM Data		COST TODAY : \$19,871	CUM. WB MUD COST: \$194,947	CUM. WBM+OBM COST: \$194,947
Type :	KCL Brine	VISCOCITY (sec/qt) :	API FLUID LOSS (cm3/30min) :	CI :
FROM :		PV (cps):	FILTER CAKE (32nds inch) :	K+C*1000 :
TIME :		YP (lb100sq.ft):	HHPFL (cm3/30min) :	HARD/Ca :
WEIGHT (sg) :	1.08	GEL10s/10m/100m (lb100sq.ft) :	HHP CAKE (32nds inch) :	MBT (ppb) :
TEMP (C) :		Fann 3/6/100 :		PM :
				PF :
				SOLIDS (%vol) :
				H2O (%vol) :
				OIL (%vol) :
				SAND :
				PH :
				PHPA (ppb) :

WBM Data		COST TODAY : \$2,269	CUM. WB MUD COST: \$197,216	CUM. WBM+OBM COST: \$197,216
Type :	KCL Brine	VISCOCITY (sec/qt) :	API FLUID LOSS (cm3/30min) :	CI :
FROM :		PV (cps):	FILTER CAKE (32nds inch) :	K+C*1000 :
TIME :		YP (lb100sq.ft):	HHPFL (cm3/30min) :	HARD/Ca :
WEIGHT (sg) :	1.08	GEL10s/10m/100m (lb100sq.ft) :	HHP CAKE (32nds inch) :	MBT (ppb) :
TEMP (C) :		Fann 3/6/100 :		PM :
				PF :
				SOLIDS (%vol) :
				H2O (%vol) :
				OIL (%vol) :
				SAND :
				PH :
				PHPA (ppb) :

Survey	MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/30m)	N/S (m)	E/W (m)	TOOL TYPE
Last Tool Type : MWD	1,281	701	90.98	232.	232.7	756.1	1.49	-469.3	-592.8	MWD
Magnetic Declination : 0.00	1,310	701	89.67	232.	232.7	785.0	1.36	-486.8	-615.8	MWD
Survey method : Min Curvature	1,339	701	89.82	233.	233.4	814.0	0.71	-504.2	-639.0	MWD
	1,368	701	90.46	234.	234.0	843.0	0.93	-521.5	-662.4	MWD

Bulk Stocks On Rig				
STOCK TYPE	START	USED	REC'D	STOCK
Barite	SX	336		336
Bentonite	SX	1546		1546
G-neat	SX	2166		2166
G+35% SiFI	SX			0
G+BFS+12.25% SiFI	SX			0
Pot Water	M3	98	26	98
Drill Water	M3	313	41	295
Heli-fuel	ltr	2344		2344
Base Oil	M3			0
Rig Fuel	M3	411	10	401
Brine	M3	0		0

Pump Data										
Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National 1	6.00	0	97	0	0	30	240	1180	9.3
2	National 1	6.00	47	97	93	680	40	310	1180	9.3
3	National 1	6.00	0	97	0	0	50	385	1180	9.3

Casing						
DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	872.4	700.0		1.40 1.40	Mixed and pumped 378 sx og G cement, 78 bbls of slurry @ 1.89 sg. Displaced and bumped plug pressure tested casing to 3000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
Well head	2.35	8.575	47.0	L-80	New Vam
X/over (NK3SB Pin x New Vam Box)	3.17	8.575	47.0	L-80	Vam x NK3
Pup Joint	3.07	8.575	47.0	L-80	NK3SB
Pup Joint	3.07	8.575	47.0	L-80	NK3SB
9 5/8" Casing	746.58	8.575	47.0	L-80	NK3SB
Float Joint	13.17	8.575	47.0	L-80	NK3SB
Intermediate Joint	12.04	8.575	47.0	L-80	NK3SB
Shoe Joint	12.54	8.575	47.0	L-80	NK3SB

Personnel : on Site =95

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	G. Howard	OMV	5
Drilling Supervisor (Nigh)	G. Othen	Service Company	34
Drilling Engineer	P. Zehetleitner	Diamond Offshore	48
Geologist	R. Tolliday	Catering	8
Geologist	P. Boothby		
Geologist	R. Leech		

Safety, Inspections and Drills Summary

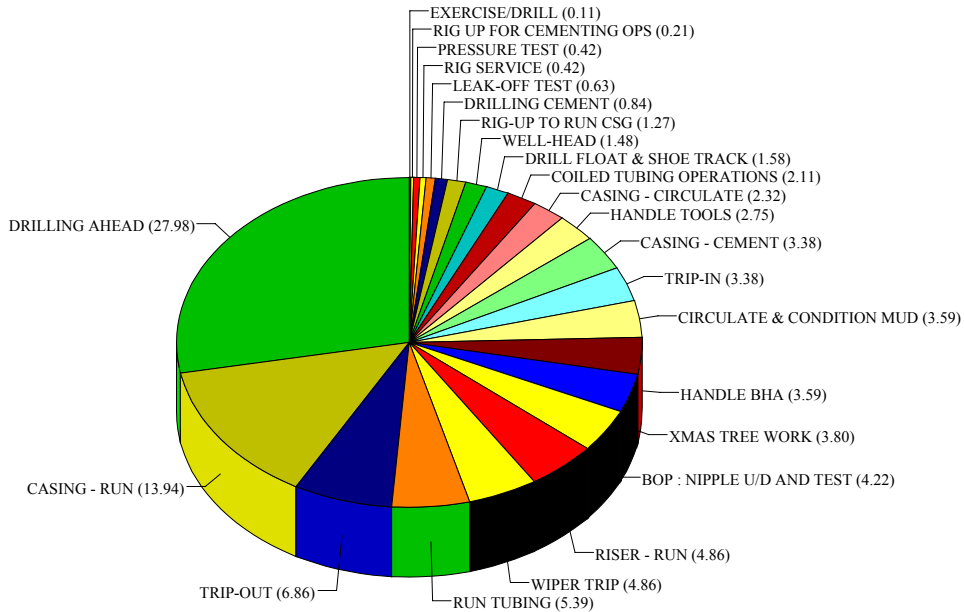
Shakers, Volumes and Losses Data				ENGINEER Graeme Garrick	
SHAKER 1 4x120	VOLUME AVAILABLE (bbl) = 1108			LOSSES (bbl) = 0	COMMENTS
SHAKER 2 4x120	ACTIVE 403	MIXING	DOWNHOLE		
SHAKER 3 4x84	HOLE 405	SLUG	SURF. + EQUIP 0.00		
SHAKER 4 4x84	RESERVE 300	HEAVY	DUMPED		
SHAKER 5					

Anchors		A 1 275	A 2 250	A 3 160	A 4 325	A 5 150
		A 6 215	A 7 180	A 8 215		

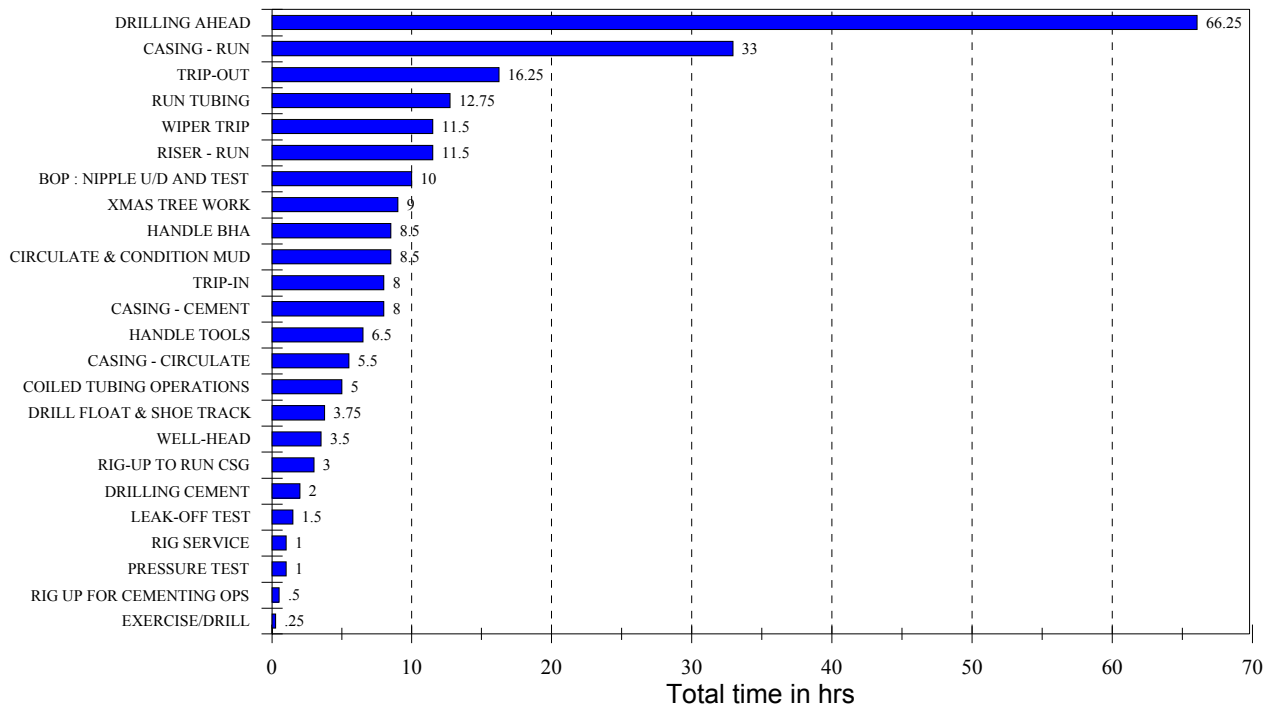
Workboats								Weather		Rig / Sea Data		
	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)	VISIBILITY(nm)	12	RIS.TENS (klbs)	232
Pacific Sentinel	at Rig	307	1190	235	545		300		WIND SP. (kts)	25.0	VDL (mt)	1,804
Pacific Conqueror	at Rig	419		345	185				WIND DIR (deg)	230	WAVES (m)	1.5
									PRES.(mbars)	1021	SWELL (m)	3.0
									AIR TEMP (C)	15.0		

Total move time (hrs)	14.50	Total prod. time since spud (hrs) :	236.75
Total time on well excluding move (hrs)	249.00	Total troub. time since spud (hrs)	12.25
		% Trouble time	4.92

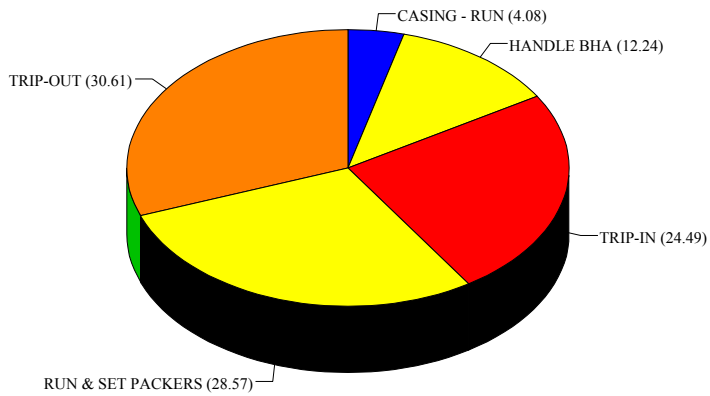
Productive Time by Op.



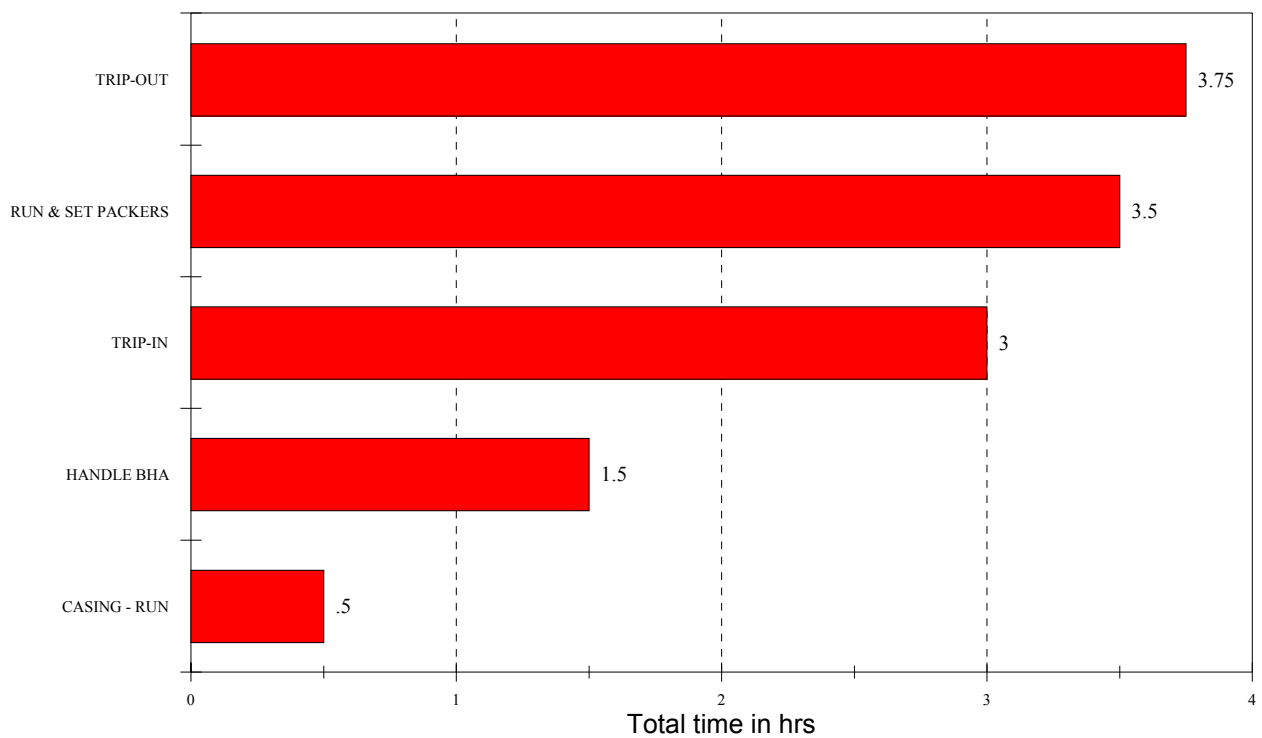
Productive time by Operation



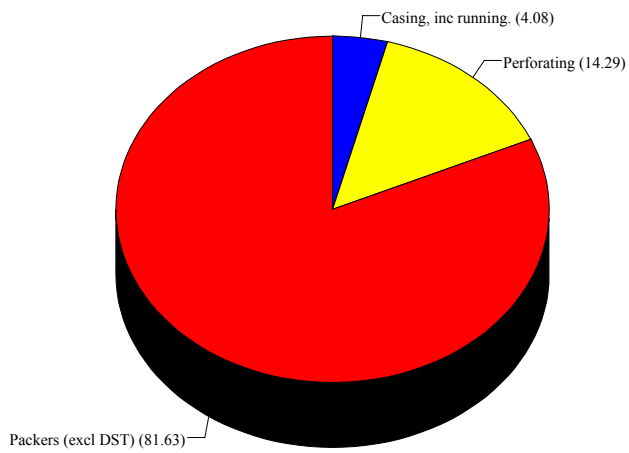
Trouble Time by Op.



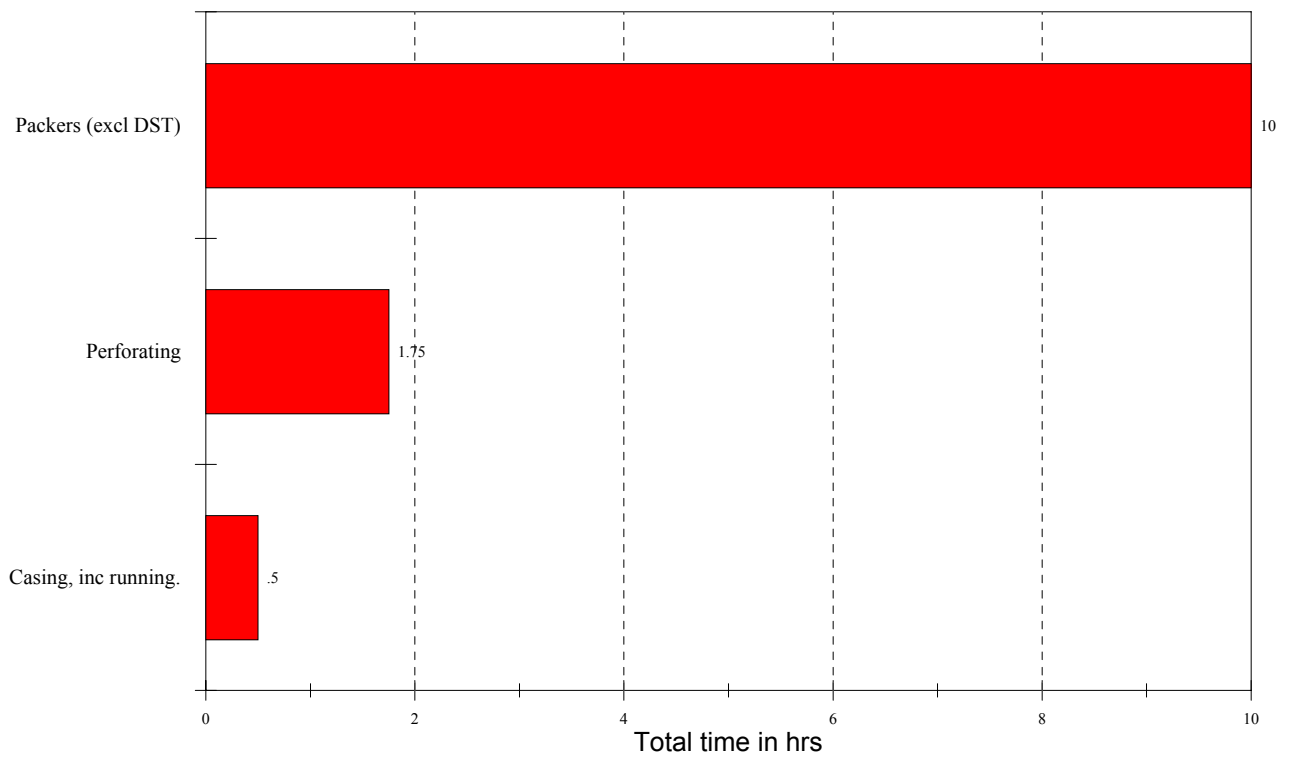
NPT by Operation



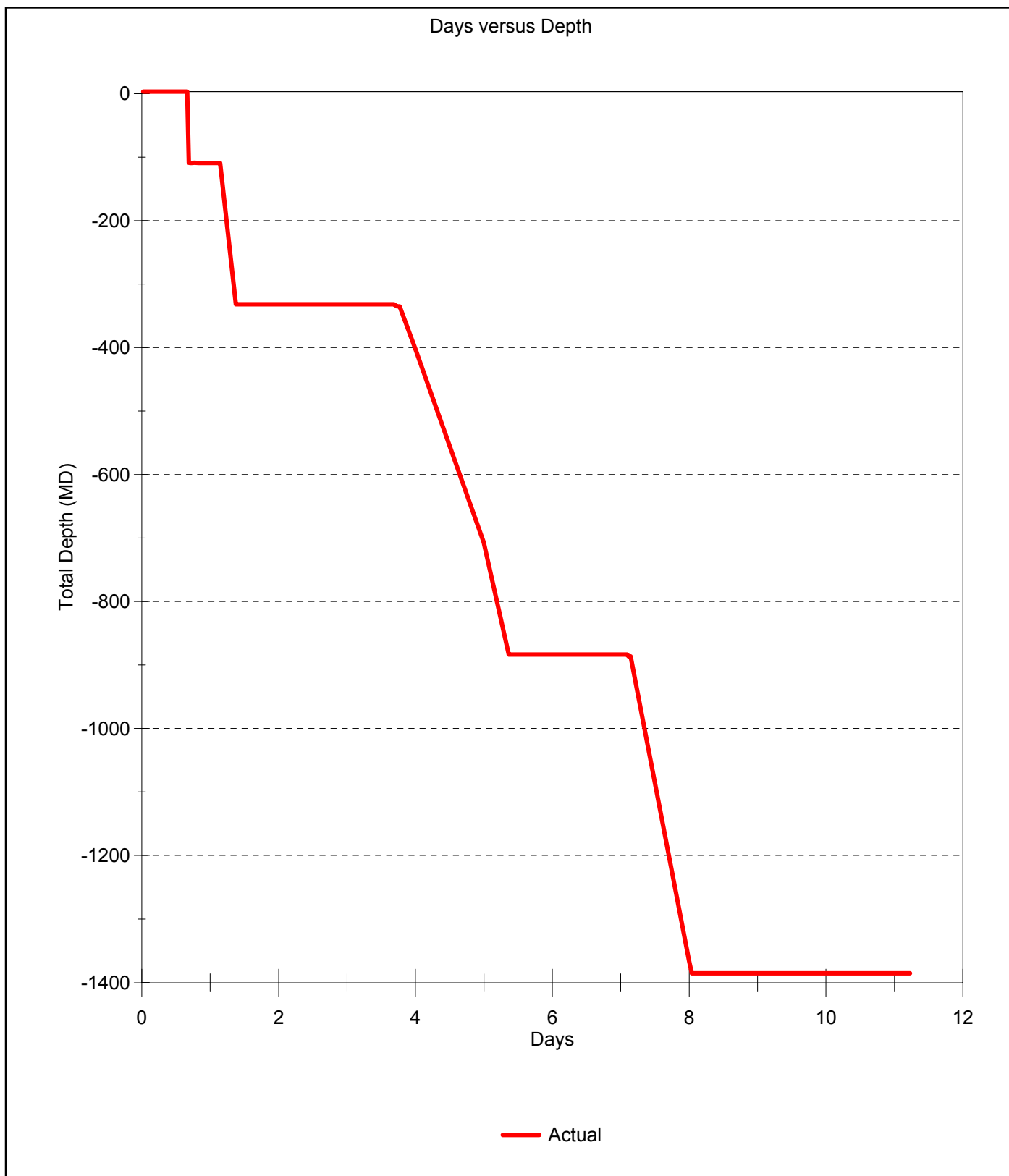
Root Cause Analysis



Root Cause Analysis



DEPTH @ 24:00 = 1,385.0m after 11.00 days since spud



DATE Jul 01, 2002

FROM : G. Howard / Othen
TO : C. Allport / R. King

Patricia-2

VIC/L21

Well Data		DEPTH (mBRT)	1,385.0	CUR. HOLE SIZE (")	8.50	AFE COST \$	11,852,851
COUNTRY	AUSTRALIA	TVD (mBRT)	701.2	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
FIELD	GIPPSLAND SUB-BASIN	PROGRESS (m)	0.0	SHOE TVD (mBRT)	700	DAILY COST :	\$386,814.00
DRILL CO.	DIAMOND OFFSHORE	DAYS ON WELL	12.00	FIT (sg)	1.40	CUM COST :	\$7,441,057.00
RIG	OCEAN BOUNTY	DAYS +/- CURVE	-1.60	LOT (sg)	0.00		
RT ABOVE SL (m)	25.0	CURRENT OP @ 0600 Running Completion landing string					
WATER DEPTH (m) LAT	52.5	PLANNED OP. Redress hanger add 2 mts on completion tubing space out. Re land completion and continue with wire line.					
RT TO SEABED (m)	77.5						

Summary of period 0000 to 2400 hrs

Rigged up flow head, BOP and lubricator. Landed hanger and attempted to test completion string. Pull back to hanger and Redress.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jul 01, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
CTB	P		CTO	00:00	01:00	1.00	1,385	Continued to prepare flow head.
CTB	P		PT	01:00	03:00	2.00	1,385	Pressure tested Lubricator valve 3500 psi, 10 min. Pressure tested flow head and flow line against choke manifold and Sub sea lubricator valve 3500 psi.
CTB	P		RU	03:00	04:00	1.00	1,385	Rigged up BOP Lubricator, and installed on flow head.
CTB	P		CMD	04:00	05:00	1.00	1,385	Circulated 270 bbls of clean filtered inhibited completion brine.
CTB	P		RTB	05:00	05:30	.50	1,385	Landed and set hanger, good indication of helix alignment. Vented control lines
CTB	P		PT	05:30	06:30	1.00	1,385	Closed middle rams, pressured up on annulus 3500 psi. Locked tubing hanger, good indication with lock monitor on control panel. Pressured up on annulus above tubing hanger to 3500 psi, good seal, bleed down pressure.
CTB	TP	TUB	RTB	06:30	13:00	6.50	1,385	Attempted to over pull, unsuccessful. Trouble shoot THRT Lock. Pulled landing string back 4 mts and functioned Sub surface safety valve.
CTB	P		PT	13:00	15:30	2.50	1,385	Landed completion, launched ROV and opened Sub sea isolation safety valve and cavity seal monitor valve on SST. Closed annular and pressured up to 3500 psi, bled off pressure and locked tubing hanger. Confirmed with 20 kips overpull.
CTB	TP	TUB	PT	15:30	19:30	4.00	1,385	Whilst rigging up wire line, tested PBR found to be leaking, prepared to rig down. Unlocked tubing hanger.
CTB	TP	TUB	PCO	19:30	23:30	4.00	1,385	Rigged down flow head, laid out coil tubing lift frame. Continued pulling out of hole, hanger at surface. (Losses down hole 40 bbls / Hr)
CTB	TP	TUB	PCO	23:30	24:00	.50	1,385	Broke out hanger from tubing, unlatch SSTT assembly from tubing hanger. Laid out SSTT assembly and broke out tubing hanger. Commenced redress tubing hanger.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jul 02, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
CTB	TP	TUB	PCO	00:00	01:00	1.00	1,385	Laid out test assembly.
CTB	TP	TUB	PCO	01:00	02:30	1.50	1,385	Changed out seals on hanger.
CTB	TP	TUB	PT	02:30	03:00	.50	1,385	Made up pup joints to completion string. (2.2mts)
CTB	TP	TUB	PT	03:00	04:00	1.00	1,385	Picked up & made up lower test assembly. Re-test assembly.
CTB	TP	TUB	RTB	04:00	06:00	2.00	1,385	RIH with landing string.(Losses continued @ 40 bbls / Hr)

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	12.0	Jun 20, 2002	Jun 20, 2002	12.0	0.50	0.0	0.0
RIG-UP/PRESPUD	2.5	Jun 20, 2002	Jun 20, 2002	14.5	0.60	0.0	0.0
CONDUCTOR HOLE	4.0	Jun 20, 2002	Jun 20, 2002	18.5	0.77	0.0	112.0
CONDUCTORS	5.5	Jun 20, 2002	Jun 20, 2002	24.0	1.00	112.0	112.0
SURFACE HOLE	15.0	Jun 21, 2002	Jun 21, 2002	39.0	1.63	112.0	334.0
SURFACE CASING	41.0	Jun 21, 2002	Jun 23, 2002	80.0	3.33	334.0	334.0
INTERMEDIATE HOLE (1)	60.5	Jun 23, 2002	Jun 25, 2002	140.5	5.85	334.0	884.0
INTERMEDIATE CASING (1)	29.8	Jun 25, 2002	Jun 27, 2002	170.3	7.09	884.0	884.0

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
PRODUCTION HOLE (1)	34.8	Jun 27, 2002	Jun 28, 2002	205.0	8.54	887.0	1,385.0
PRODUCTION CSG/LNR(1)	38.0	Jun 28, 2002	Jun 30, 2002	243.0	10.13	1,385.0	1,385.0
COMPLETION/TIE-BACK	44.5	Jun 30, 2002	Jul 01, 2002	287.5	11.98	1,385.0	1,385.0

WBM Data		COST TODAY : \$1,014	CUM. WB MUD COST: \$198,230	CUM. WBM+OBM COST: \$198,230
Type : FROM : TIME : WEIGHT (sg) : TEMP (C) :	KCL Brine VISCOCITY (sec/qt) : PV (cps): YP (lb100sq.ft): GEL10s/10m/100m (lb100sq.ft) : Fann 3/6/100 :	API FLUID LOSS (cm3/30min) : FILTER CAKE (32nds inch) : HTHPFL (cm3/30min) : HTHP CAKE (32nds inch) :	Cl : K+C*1000 : HARD/Ca : MBT (ppb) : PM : PF :	SOLIDS (%vol) : H2O (%vol) : OIL (%vol) : SAND : PH : PHPA (ppb) :

Bit Data for Bit # 4 IADC #		Wear											
		I	O1	D	L	B	G	O2	R				
SIZE (") : MANUFACTURER : TYPE : SERIAL # : DEPTH IN (m RT) : DEPTH OUT (m RT) :	Reed AVE WOB (k-lbs) : AVE RPM : FLOW (gpm) : PUMP PRESS. (psi): HSI (hp/sqi) : 0.000	NOZZLES				Drilled over the last 24 hrs METERAGE (m) : 0 ON BOTTOM HRS : .0 IADC DRILL. HRS : .0 TOTAL REVS : 0 ROP (m/hr):				Calculated over the bit run CUM.METERAGE (m) 501 CUM. ON BOT. HRS : 13.8 CUM.IADC DRILL HRS: 22.0 CUM.TOT. REVS : 0 ROP (m/hr): 22.8			

BHA # 4 Length (ft) :		WT BLW JAR(k-lbs):		STRING WT(k-lbs) :	TRQE MAX (ft-lbs):	D.C. (1) ANN. VELOCITY (mpm):	0
		BHA WT(k-lbs) :		PICK UP WT(k-lbs) :	TRQE ON (ft-lbs):	D.C. (2) ANN VELOCITY (mpm):	0
				SLK OFF WT(k-lbs) :	TRQE OFF (ft-lbs):	H.W.D.P. ANN VELOCITY (mpm):	0
						D.P. ANN VELOCITY (mpm) :	0
BHA DESCRIPTION :							
TOOL DESCRIPTION		HRS	SERIAL #	COMMENT			

Survey	MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/30m)	N/S (m)	E/W (m)	TOOL TYPE
Last Tool Type : MWD	1,281	701	90.98	232.	232.7	756.1	1.49	-469.3	-592.8	MWD
Magnetic Declination : 0.00	1,310	701	89.67	232.	232.7	785.0	1.36	-486.8	-615.8	MWD
Survey method : Min Curvature	1,339	701	89.82	233.	233.4	814.0	0.71	-504.2	-639.0	MWD
	1,368	701	90.46	234.	234.0	843.0	0.93	-521.5	-662.4	MWD

Bulk Stocks On Rig				
STOCK TYPE	START	USED	REC'D	STOCK
Barite	SX 336			336
Bentonite	SX 1546			1546
G-neat	SX 2166			2166
G+35% SiFI	SX			0
G+BFS+12.25% SiFI	SX			0
Pot Water	M3 98	23	23	98
Drill Water	M3 567	17		550
Heli-fuel	ltr 6814	500		6314
Base Oil	M3			0
Rig Fuel	M3 401	12		389
Brine	M3 0			0

Pump Data										
Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National 1	6.00	0	97	0	0	30	240	1180	9.3
2	National 1	6.00	47	97	93	680	40	310	1180	9.3
3	National 1	6.00	0	97	0	0	50	385	1180	9.3

Casing						
DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	872.4	700.0		1.40 1.40	Mixed and pumped 378 sx og G cement, 78 bbls of slurry @ 1.89 sg. Displaced and bumped plug pressure tested casing to 3000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
Well head	2.35	8.575	47.0	L-80	New Vam
X/over (NK3SB Pin x New Vam Box)	3.17	8.575	47.0	L-80	Vam x NK3
Pup Joint	3.07	8.575	47.0	L-80	NK3SB
Pup Joint	3.07	8.575	47.0	L-80	NK3SB
9 5/8" Casing	746.58	8.575	47.0	L-80	NK3SB
Float Joint	13.17	8.575	47.0	L-80	NK3SB
Intermediate Joint	12.04	8.575	47.0	L-80	NK3SB
Shoe Joint	12.54	8.575	47.0	L-80	NK3SB

Personnel : on Site =92

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	G. Howard	OMV	7
Drilling Supervisor (Nigh)	G. Othen	Service Company	31
Drilling Engineer	P. Zehetleitner	Diamond Offshore	46
		Catering	8

Safety, Inspections and Drills Summary

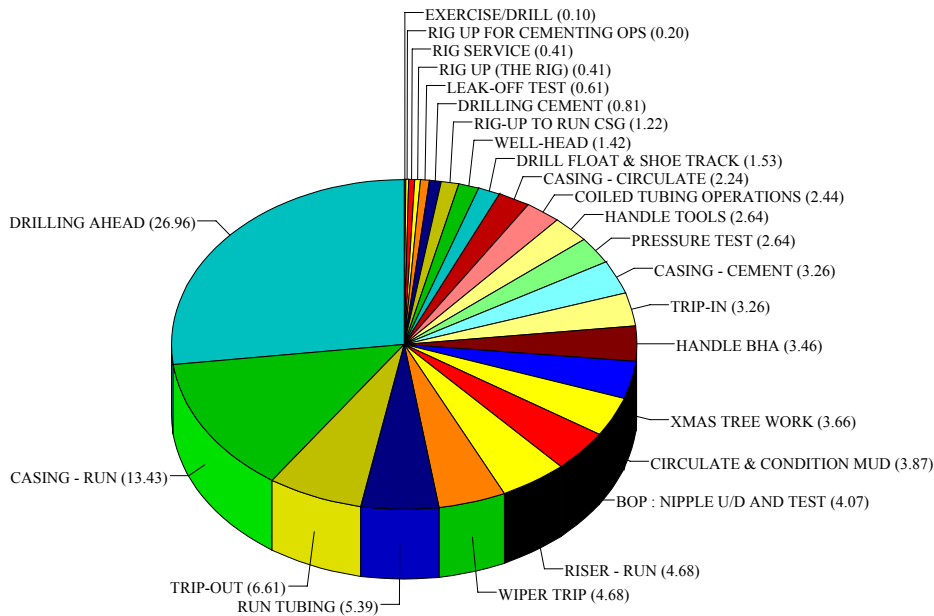
Shakers, Volumes and Losses Data				ENGINEER Graeme Garrick	
SHAKER 1 4x120	VOLUME AVAILABLE (bbl) = 823		LOSSES (bbl) = 0		COMMENTS Mixing KCL Brine. Losses at 40 bbls / Hr.
SHAKER 2 4x120	ACTIVE 218	MIXING	DOWNHOLE		
SHAKER 3 4x84	HOLE 405	SLUG	SURF. + EQUIP	0.00	
SHAKER 4 4x84	RESERVE 200	HEAVY	DUMPED		
SHAKER 5					

Anchor	A 1	A 2	A 3	A 4	A 5
	280	260	165	315	140
	A 6 210	A 7 175	A 8 2100		

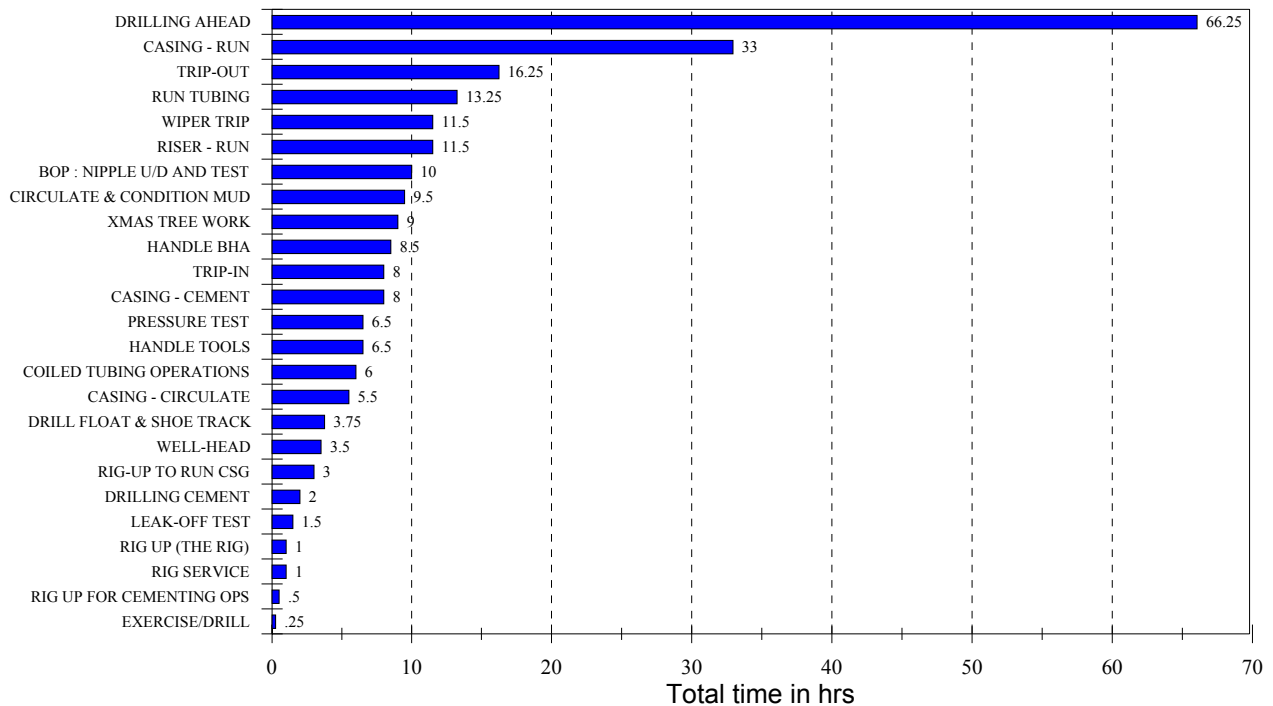
Workboats								Weather		Rig / Sea Data	
Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)	VISIBILITY(nm)	RIS.TENS (klbs)	WIND SP. (kts)	VDL (mt)
Pacific Sentinel at Rig	302	1190	230	545		300		12	232	30.0	1,721
Pacific Conqueror at Rig	414		345	180				280	1.5	280	1.5
								1021	1.2		
								15.0			

Total move time (hrs)	14.50	Total prod. time since spud (hrs) :	245.75
Total time on well excluding move (hrs)	273.00	Total troub. time since spud (hrs)	27.25
		% Trouble time	9.98

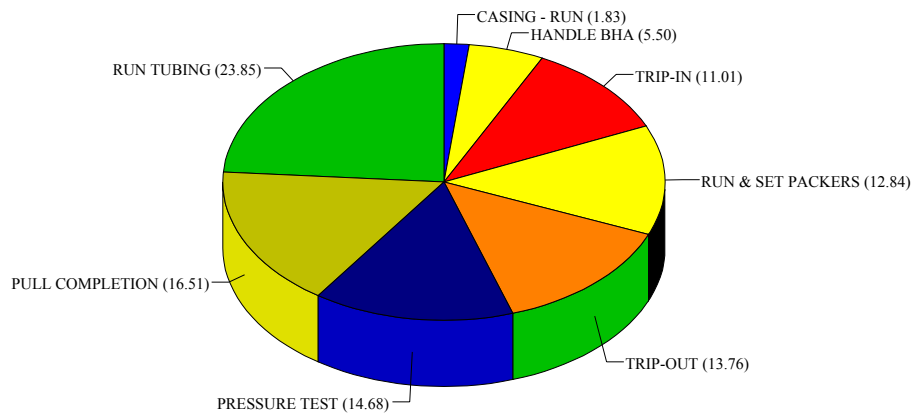
Productive Time by Op.



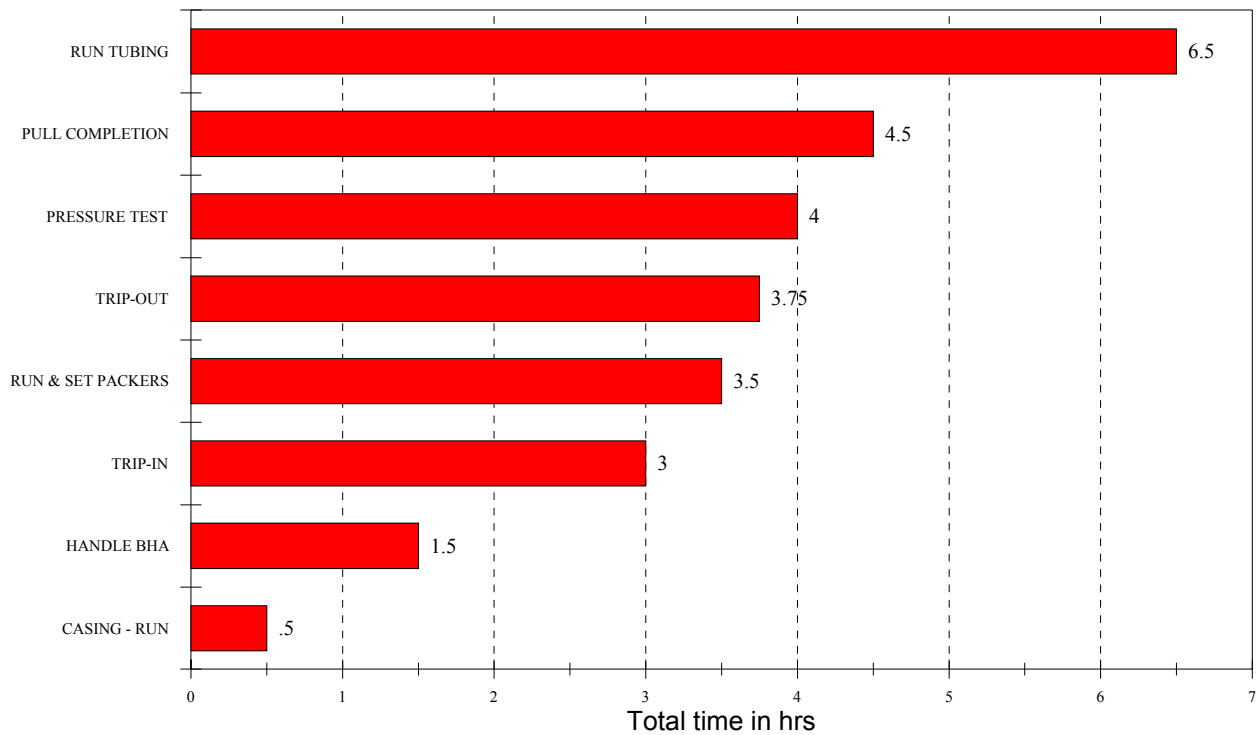
Productive time by Operation



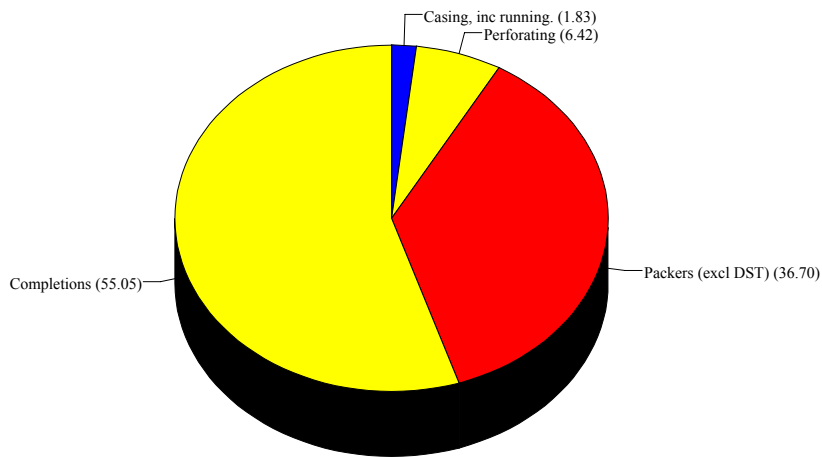
Trouble Time by Op.



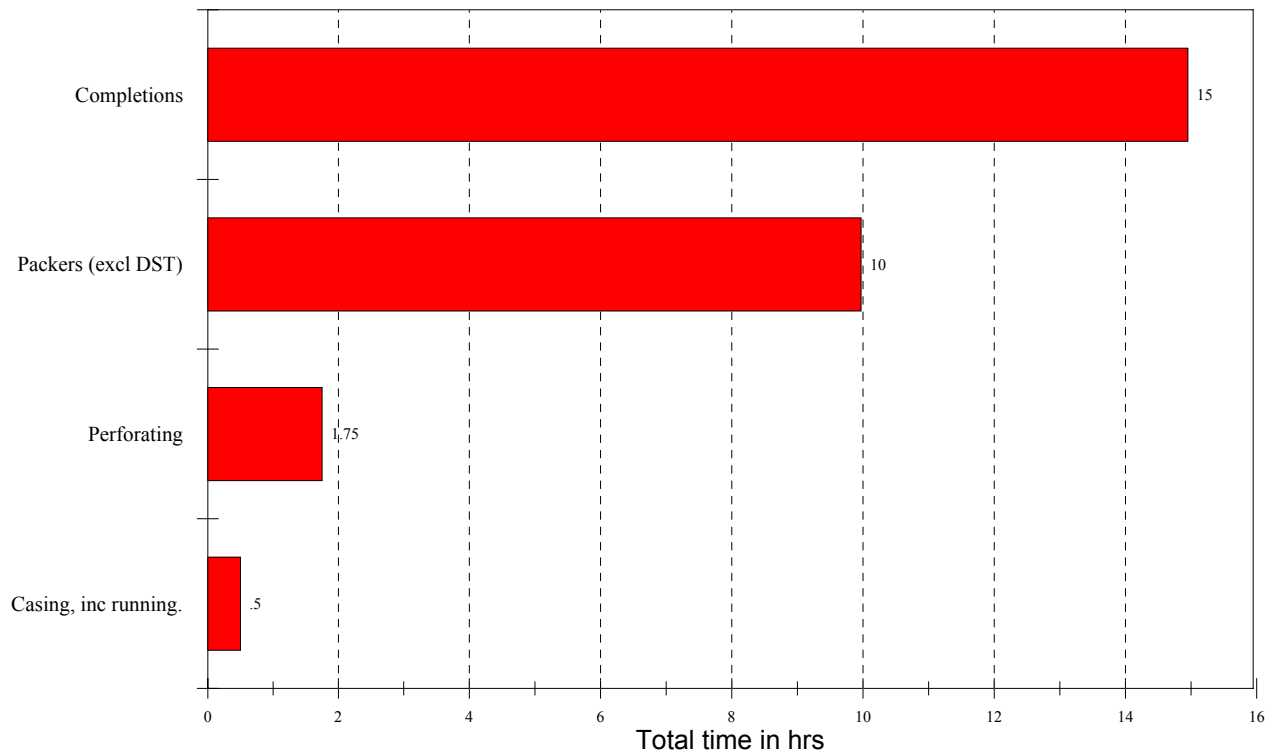
NPT by Operation



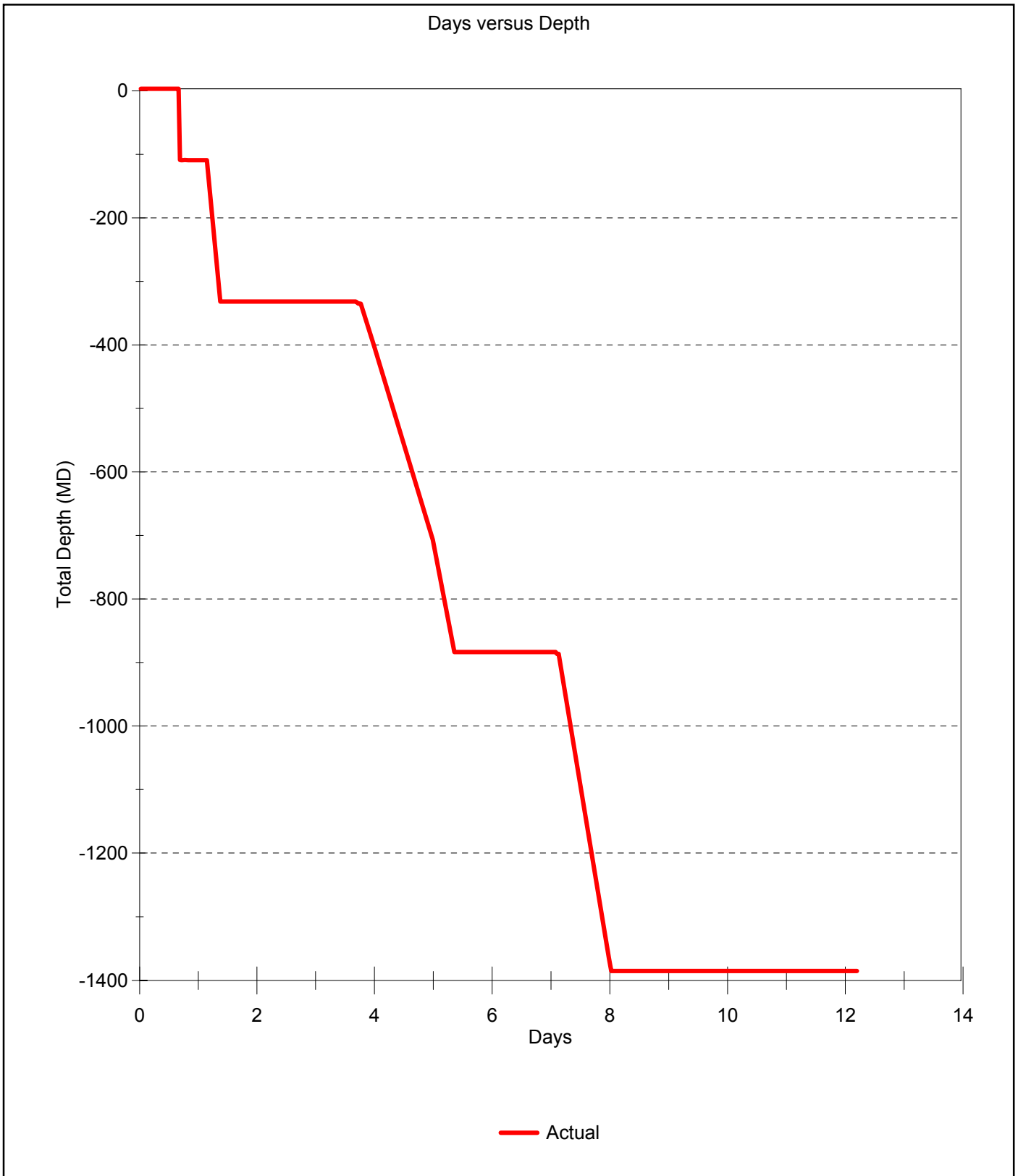
Root Cause Analysis



Root Cause Analysis



DEPTH @ 24:00 = 1,385.0m after 12.00 days since spud



DATE Jul 02, 2002

FROM : R. King / Othen
TO : C. Allport / S. Crocker

Patricia-2

VIC/L21

Well Data		DEPTH (mBRT)	1,385.0	CUR. HOLE SIZE (")	8.50	AFE COST \$	11,852,851
COUNTRY	AUSTRALIA	TVD (mBRT)	701.2	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
FIELD	GIPPSLAND SUB-BASIN	PROGRESS (m)	0.0	SHOE TVD (mBRT)	700	DAILY COST :	\$491,060.00
DRILL CO.	DIAMOND OFFSHORE	DAYS ON WELL	13.00	FIT (sg)	1.40	CUM COST :	\$7,932,117.00
RIG	OCEAN BOUNTY	DAYS +/- CURVE	-1.20	LOT (sg)	0.00		
RT ABOVE SL (m)	25.0	CURRENT OP @ 0600 Preparing to flow well at daylight.					
WATER DEPTH (m) LAT	52.5	PLANNED OP. Run Coiled tubing and inject nitrogen to bring well on.					
RT TO SEABED (m)	77.5						

Summary of period 0000 to 2400 hrs
Replaced seals on Tubing Hanger, ran & tested O.K. Rigged up flow head, recovered Isolation sleeve and ran 4.5 Gauge ring. Rigged up coiled tubing injector head.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jul 02, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
CTB	TP	TUB	PCO	00:00	01:00	1.00	1,385	Laid out test assembly.
CTB	TP	TUB	PCO	01:00	02:30	1.50	1,385	Changed out seals on hanger.
CTB	TP	TUB	PCO	02:30	03:00	.50	1,385	Made up pup joints to completion string. (Total length 2.2m)
CTB	TP	TUB	PT	03:00	04:00	1.00	1,385	Picked up & made up lower test assembly. Re-tested assembly.
CTB	TP	TUB	RTB	04:00	07:00	3.00	1,385	RIH with landing string. (Losses continued @ 40 bbls / Hr) Picked up SSLV and repaired damage to SSLV umbilical line.
CTB	TP		RTB	07:00	07:00	.00	1,385	Rigged up lift frame and flow head, made up coflexip hoses and cement hose.
CTB	TP		RTB	07:00	09:30	2.50	1,385	Landed and locked tubing hanger, confirmed with 50 kips over pull. (Total fluid lost to formation 410 bbls)
CTB	TP		PT	09:30	10:00	.50	1,385	Pressure tested Production Annulus to 1500 psi.
CTB	P		SLK	10:00	13:30	3.50	1,385	Rigged up wire line and pressure tested lubricator. RIH & retrieved isolation sleeve.
CTB	P		SLK	13:30	14:30	1.00	1,385	Made up 4.5" Gauge ring and RIH to 250m. Laid out wire line tools and rigged down.
CTB	P		CTO	14:30	20:30	6.00	1,385	BJ Rigged up Coil tubing injector head.
CTB	P		CTO	20:30	23:30	3.00	1,385	Held JSA. Rigged up Coil tubing into frame above flow head and secured.
CTB	P		CTO	23:30	24:00	.50	1,385	Closed Master valve. Held JSA for pressure testing and running coil tubing.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jul 03, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
CTB	P		CTO	00:00	01:00	1.00	1,385	Pressure tested lines for pumping Nitrogen 300 / 3000 psi 5-10 min.
CTB	P		CTO	01:00	02:00	1.00	1,385	Opened Master valve. RIH with Coil tubing to 221m (SRO Problem)
CTB	TP	MSC	CTO	02:00	02:30	.50	1,385	Troubleshoot SRO Gauge. (Gauge OK. Problem at surface)
CTB	P		CTO	02:30	03:30	1.00	1,385	Continued Running Coiled tubing to 600m.
CTB	P		FLO	03:30	05:00	1.50	1,385	Pumped nitrogen and continued running in hole to 892m. (Fluid returned 110 bbls)
CTB	P		FLO	05:00	06:00	1.00	1,385	Shut well in for initial build up.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	12.0	Jun 20, 2002	Jun 20, 2002	12.0	0.50	0.0	0.0
RIG-UP/PRESPUD	2.5	Jun 20, 2002	Jun 20, 2002	14.5	0.60	0.0	0.0
CONDUCTOR HOLE	4.0	Jun 20, 2002	Jun 20, 2002	18.5	0.77	0.0	112.0
CONDUCTORS	5.5	Jun 20, 2002	Jun 20, 2002	24.0	1.00	112.0	112.0
SURFACE HOLE	15.0	Jun 21, 2002	Jun 21, 2002	39.0	1.63	112.0	334.0
SURFACE CASING	41.0	Jun 21, 2002	Jun 23, 2002	80.0	3.33	334.0	334.0
INTERMEDIATE HOLE (1)	60.5	Jun 23, 2002	Jun 25, 2002	140.5	5.85	334.0	884.0
INTERMEDIATE CASING (1)	29.8	Jun 25, 2002	Jun 27, 2002	170.3	7.09	884.0	884.0
PRODUCTION HOLE (1)	34.8	Jun 27, 2002	Jun 28, 2002	205.0	8.54	887.0	1,385.0

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
PRODUCTION CSG/LNR(1)	38.0	Jun 28, 2002	Jun 30, 2002	243.0	10.13	1,385.0	1,385.0
COMPLETION/TIE-BACK	68.5	Jun 30, 2002	Jul 02, 2002	311.5	12.98	1,385.0	1,385.0

WBM Data		COST TODAY : \$1,224	CUM. WB MUD COST: \$199,454	CUM. WBM+OBM COST: \$199,454
Type : KCL Brine	VISCOCITY (sec/qt) :	API FLUID LOSS (cm3/30min) :	CI :	SOLIDS (%vol) :
FROM :	PV (cps):	FILIER CAKE (32nds inch) :	K+C*1000 :	H2O (%vol) :
TIME :	YP (lb100sq.ft):	HTHPFL (cm3/30min) :	HARD/Ca :	OIL (%vol) :
WEIGHT (sg) : 1.08	GEL 10s/10m/100m (lb100sq.ft) :	HTHP CAKE (32nds inch) :	MBT (ppb) :	SAND :
TEMP (C) :	Fann 3/6/100 :		PM :	PH :
			PF :	PHPA (ppb) :

BHA #4 Length (ft) :		D.C. (1) ANN. VELOCITY (mpm):		0
WT BLW JAR(k-lbs):	STRING WT(k-lbs) :	TRQE MAX (ft-lbs):	D.C. (2) ANN VELOCITY (mpm):	0
BHA WT(k-lbs) :	PICK UP WT(k-lbs) :	TRQE ON (ft-lbs):	H.W.D.P. ANN VELOCITY (mpm):	0
	SLK OFF WT(k-lbs) :	TRQE OFF (ft-lbs):	D.P. ANN VELOCITY (mpm) :	0
BHA DESCRIPTION :				
TOOL DESCRIPTION	HRS	SERIAL #	COMMENT	

Survey	MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/30m)	N/S (m)	E/W (m)	TOOL TYPE
Last Tool Type : MWD	1,281	701	90.98	232.	232.7	756.1	1.49	-469.3	-592.8	MWD
Magnetic Declination : 0.00	1,310	701	89.67	232.	232.7	785.0	1.36	-486.8	-615.8	MWD
Survey method : Min Curvature	1,339	701	89.82	233.	233.4	814.0	0.71	-504.2	-639.0	MWD
	1,368	701	90.46	234.	234.0	843.0	0.93	-521.5	-662.4	MWD

Bulk Stocks On Rig				
STOCK TYPE	START	USED	REC'D	STOCK
Barite	SX 336			336
Bentonite	SX 1546			1546
G-neat	SX 2166			2166
G+35% SiFI	SX			0
G+BFS+12.25% SiFI	SX			0
Pot Water	M3 98	24	24	98
Drill Water	M3 550			550
Heli-fuel	ltr 6314	471		5843
Base Oil	M3			0
Rig Fuel	M3 389	10		380
Brine	M3 0			0

Pump Data										
Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National 1	6.00	0	97	0	0	30	240	1180	9.3
2	National 1	6.00	47	97	93	680	40	310	1180	9.3
3	National 1	6.00	0	97	0	0	50	385	1180	9.3

Casing						
DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	872.4	700.0		1.40 1.40	Mixed and pumped 378 sx og G cement, 78 bbls of slurry @ 1.89 sg. Displaced and bumped plug pressue tested casing to 3000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
Well head	2.35	8.575	47.0	L-80	New Vam
X/over (NK3SB Pin x New Vam Box)	3.17	8.575	47.0	L-80	Vam x NK3
Pup Joint	3.07	8.575	47.0	L-80	NK3SB
Pup Joint	3.07	8.575	47.0	L-80	NK3SB
9 5/8" Casing	746.58	8.575	47.0	L-80	NK3SB
Float Joint	13.17	8.575	47.0	L-80	NK3SB
Intermediate Joint	12.04	8.575	47.0	L-80	NK3SB
Shoe Joint	12.54	8.575	47.0	L-80	NK3SB

Personnel : on Site =95			
JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	R.King	OMV	7
Drilling Supervisor (Nigh)	G. Othen	Service Company	34
Drilling Engineer	P. Zehetleitner	Diamond Offshore	46
		Catering	8

Safety, Inspections and Drills Summary

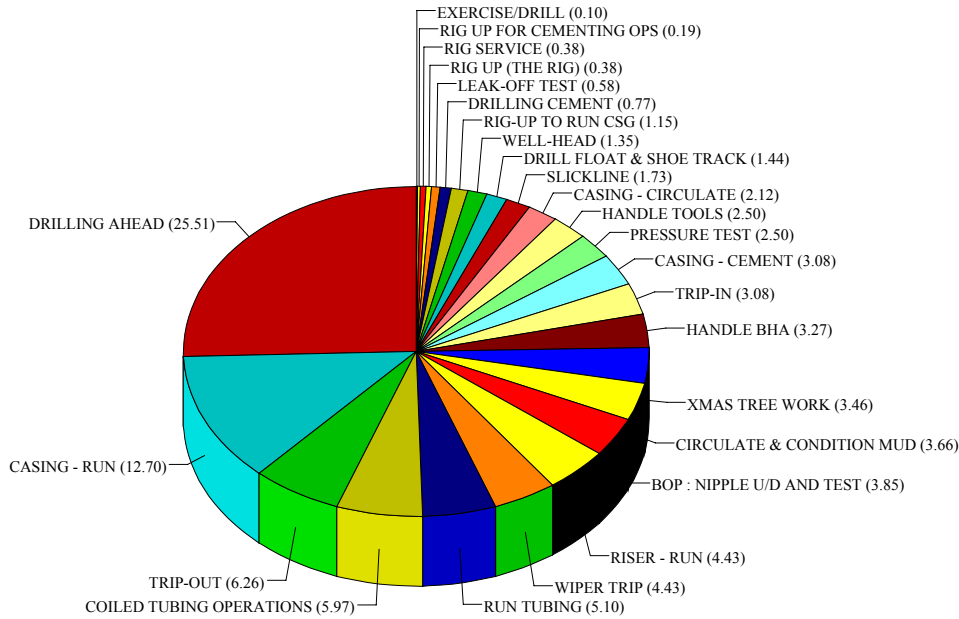
Shakers, Volumes and Losses Data				ENGINEER Graeme Garrick	
SHAKER 1 4x120	VOLUME AVAILABLE (bbl) = 591 ACTIVE MIXING HOLE 405 SLUG RESERVE 186 HEAVY	LOSSES (bbl) = 0 DOWNHOLE SURF. + EQUIP 0.00 DUMPED	COMMENTS Total losses aprox 450 bbls.		
SHAKER 2 4x120					
SHAKER 3 4x84					
SHAKER 4 4x84					
SHAKER 5					

Anchors		A 1	270	A 2	250	A 3	175	A 4	345	A 5	140
		A 6	210	A 7	175	A 8	200				

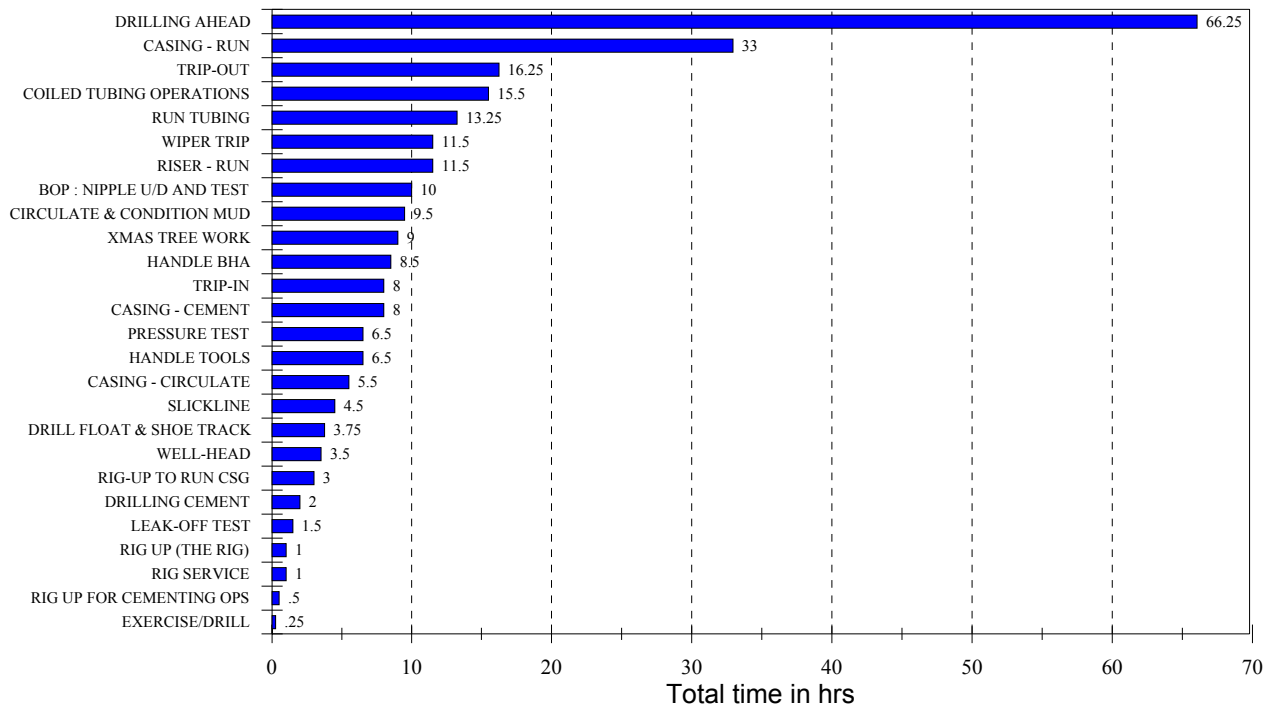
Workboats								Weather		Rig / Sea Data		
	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)				
Pacific Sentinel	at Rig	301	1190	225	545		300		VISIBILITY(nm)	12	RIS.TENS (klbs)	232
Pacific Conqueror	at Rig	410		345	177				WIND SP. (kts)	20.0	VDL (mt)	1,741
									WIND DIR (deg)	310	WAVES (m)	0.9
									PRES.(mbars)	1008	SWELL (m)	1.8
									AIR TEMP (C)	15.0		

Total move time (hrs)	14.50	Total prod. time since spud (hrs) :	259.75
Total time on well excluding move (hrs)	297.00	Total troub. time since spud (hrs)	37.25
		% Trouble time	12.54

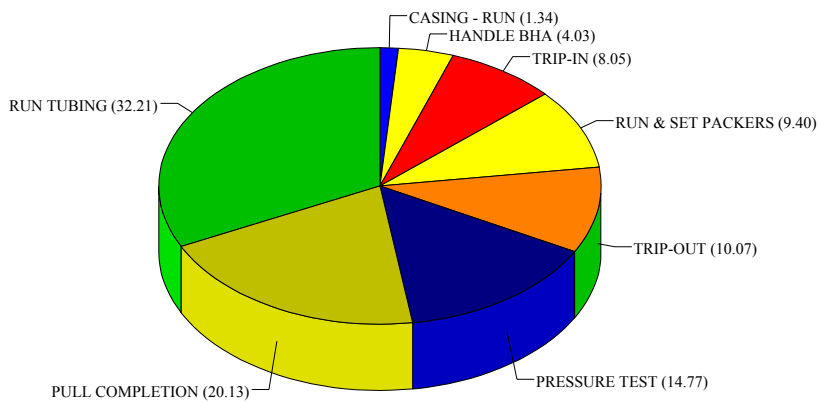
Productive Time by Op.



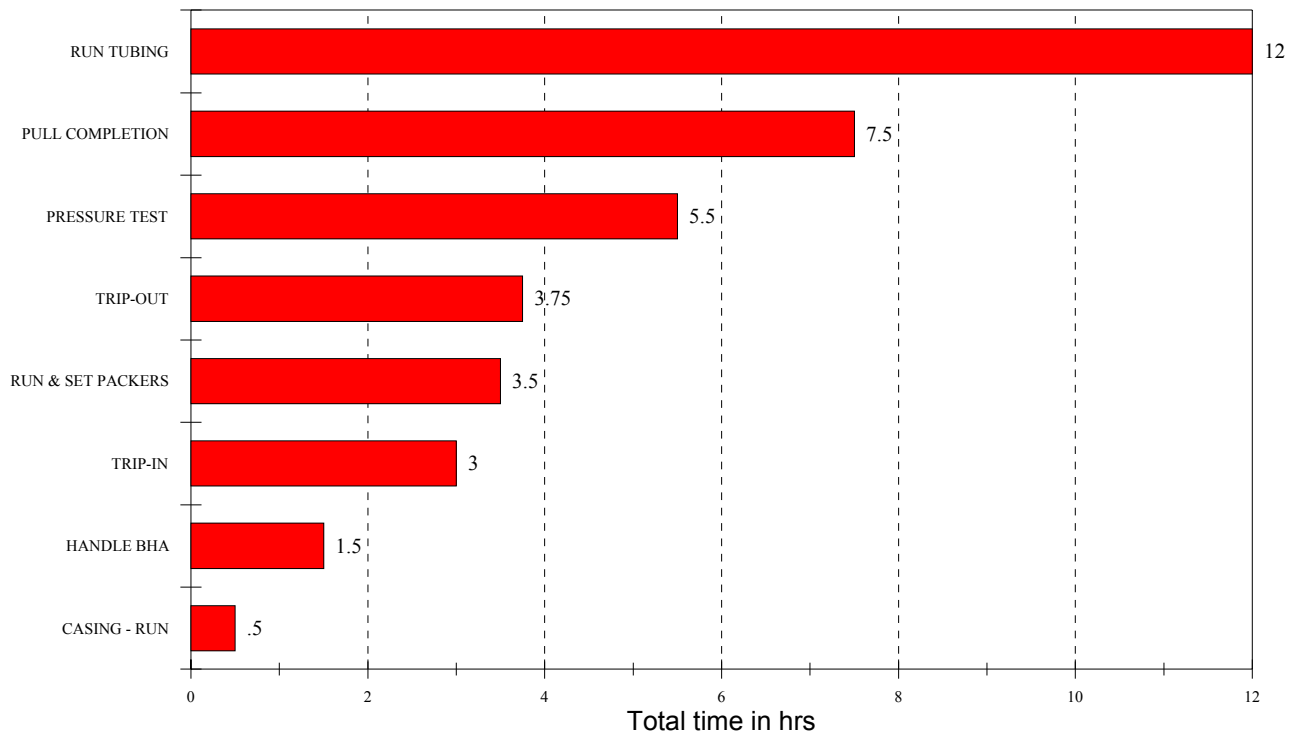
Productive time by Operation



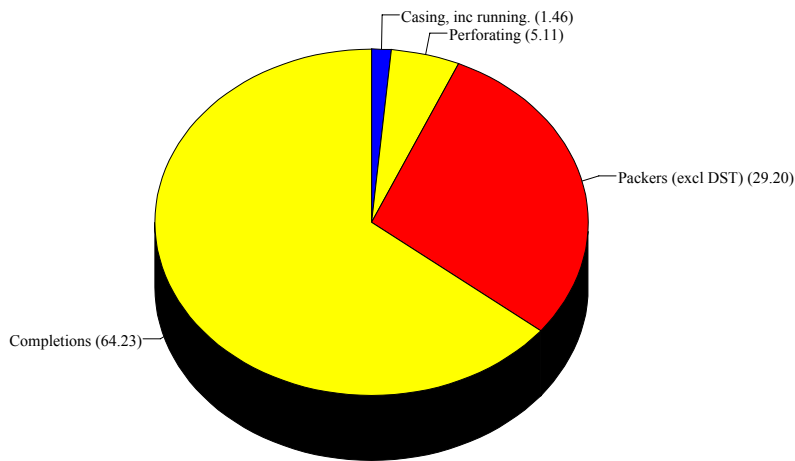
Trouble Time by Op.



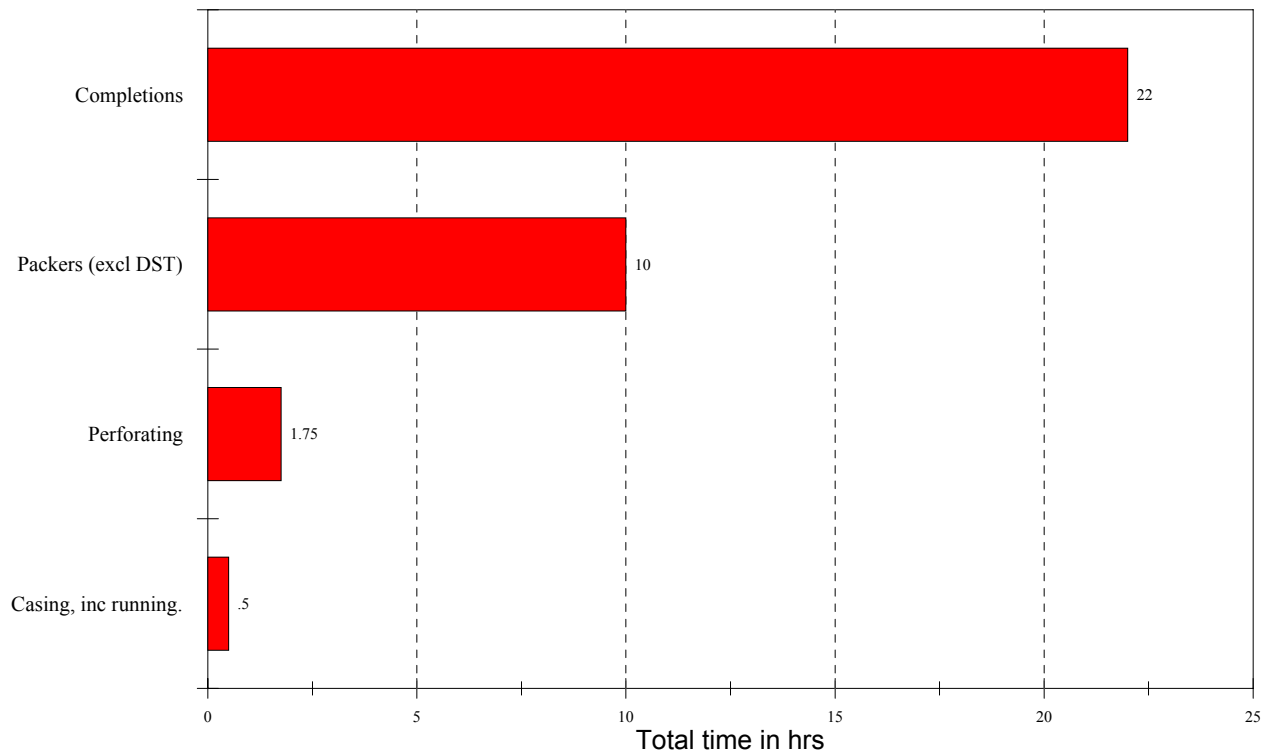
NPT by Operation



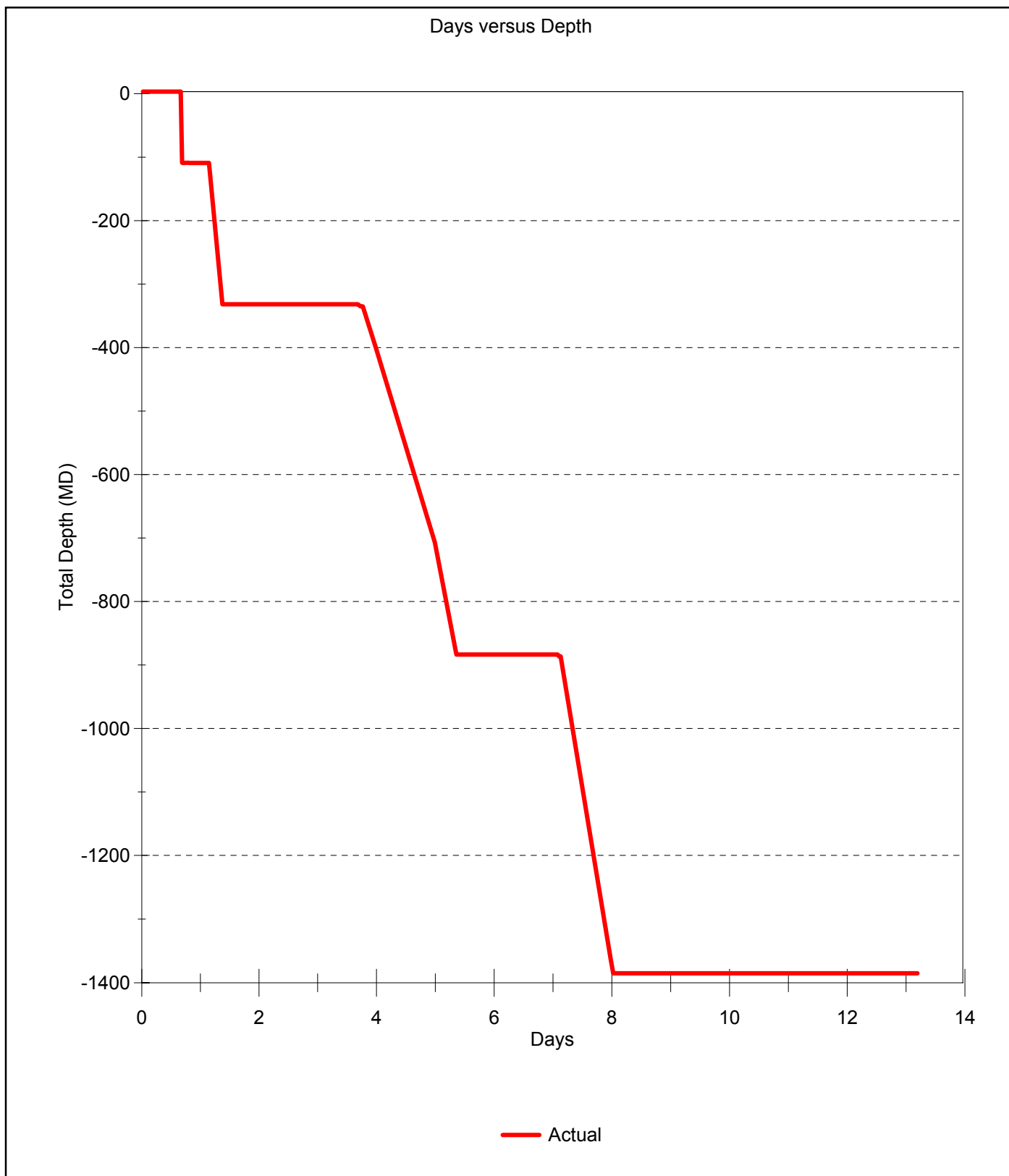
Root Cause Analysis



Root Cause Analysis



DEPTH @ 24:00 = 1,385.0m after 13.00 days since spud



OMV Australia

DAILY DRILLING REPORT # 14

DATE Jul 03, 2002

FROM : R. King /G. Othen
TO : C. Allport / S. Crocker

Patricia-2

VIC/L21

Well Data		DEPTH (mBRT)	1,385.0	CUR. HOLE SIZE (")	8.50	AFE COST \$	11,852,851
COUNTRY	AUSTRALIA	TVD (mBRT)	701.2	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
FIELD	GIPPSLAND SUB-BASIN	PROGRESS (m)	0.0	SHOE TVD (mBRT)	700	DAILY COST :	\$388,015.00
DRILL CO.	DIAMOND OFFSHORE	DAYS ON WELL	14.00	FIT (sg)	1.40	CUM COST :	\$8,320,132.00
RIG	OCEAN BOUNTY	DAYS +/- CURVE	-1.10	LOT (sg)	0.00		
RT ABOVE SL (m)	25.0	CURRENT OP @ 0600 Flowing well for initial clean up flow period.					
WATER DEPTH (m) LAT	52.5	PLANNED OP. Complete clean up period. Shut in well for second build up period. Open well for main flow period.					
RT TO SEABED (m)	77.5						

Summary of period 0000 to 2400 hrs

RIH with coiled tubing to 600m and pumped nitrogen, continued running in hole to 892m. Shut well in for initial shut-in period. Conducted JSA. Opened choke and flowed well for clean up flow period.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jul 03, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
CTB	P		CTO	00:00	01:00	1.00	1,385	Pressure tested lines for pumping Nitrogen 300 / 3000 psi 5-10 min.
PT	P		CTO	01:00	02:00	1.00	1,385	Opened Master valve. RIH with coiled tubing to 221m (SRO Problem)
PT	TP	MSC	CTO	02:00	02:30	.50	1,385	Troubleshoot SRO Gauge. (Gauge OK. Problem at surface)
PT	P		CTO	02:30	03:30	1.00	1,385	Continued Running Coiled tubing to 600m.
PT	P		CTO	03:30	05:00	1.50	1,385	Pumped nitrogen and continued running in hole to 892m. (Fluid returned 110 bbls)
PT	P		WCU	05:00	07:00	2.00	1,385	Shut well in for initial build up.
PT	P		WCU	07:00	07:15	.25	1,385	Function tested ESD system. Held JSA on drill floor.
PT	P		WCU	07:15	24:00	16.75	1,385	Opened choke & flowed well for clean up flow period. (Choke opened at 07:14hrs)

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jul 04, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
PT	P		WCU	00:00	06:00	6.00	1,385	Flowed well for clean up flow period.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	12.0	Jun 20, 2002	Jun 20, 2002	12.0	0.50	0.0	0.0
RIG-UP/PRESPUD	2.5	Jun 20, 2002	Jun 20, 2002	14.5	0.60	0.0	0.0
CONDUCTOR HOLE	4.0	Jun 20, 2002	Jun 20, 2002	18.5	0.77	0.0	112.0
CONDUCTORS	5.5	Jun 20, 2002	Jun 20, 2002	24.0	1.00	112.0	112.0
SURFACE HOLE	15.0	Jun 21, 2002	Jun 21, 2002	39.0	1.63	112.0	334.0
SURFACE CASING	41.0	Jun 21, 2002	Jun 23, 2002	80.0	3.33	334.0	334.0
INTERMEDIATE HOLE (1)	60.5	Jun 23, 2002	Jun 25, 2002	140.5	5.85	334.0	884.0
INTERMEDIATE CASING (1)	29.8	Jun 25, 2002	Jun 27, 2002	170.3	7.09	884.0	884.0
PRODUCTION HOLE (1)	34.8	Jun 27, 2002	Jun 28, 2002	205.0	8.54	887.0	1,385.0
PRODUCTION CSG/LNR(1)	38.0	Jun 28, 2002	Jun 30, 2002	243.0	10.13	1,385.0	1,385.0
COMPLETION/TIE-BACK	69.5	Jun 30, 2002	Jul 03, 2002	312.5	13.02	1,385.0	1,385.0
PRODUCTION TEST	23.0	Jul 03, 2002	Jul 03, 2002	335.5	13.98	1,385.0	1,385.0

WBM Data		COST TODAY : \$0	CUM. WB MUD COST: \$199,454	CUM. WBM+OBM COST: \$199,454
Type :	KCL Brine	VISCOCITY (sec/qt) :	API FLUID LOSS (cm3/30min) :	Cl :
FROM :		PV (cps):	FILIER CAKE (32nds inch) :	K+C*1000 :
TIME :		YP (lb100sq.ft):	HTHPFL (cm3/30min) :	HARD/Ca :
WEIGHT (sg) :	1.08	GEL10s/10m/100m (lb100sq.ft) :	Fann 3/6/100 :	MBT (ppb) :
TEMP (C) :				PM :
				PF :
				SOLIDS (%vol) :
				H2O (%vol) :
				OIL (%vol) :
				SAND :
				PH :
				PHPA (ppb) :

BHA #4 Length (ft) :		D.C. (1) ANN. VELOCITY (mpm):	0
WT BLW JAR(k-lbs):	STRING WT(k-lbs) :	TRQE MAX (ft-lbs):	D.C. (2) ANN VELOCITY (mpm):
BHA WT(k-lbs) :	PICK UP WT(k-lbs) :	TRQE ON (ft-lbs):	H.W.D.P. ANN VELOCITY (mpm):
	SLK OFF WT(k-lbs) :	TRQE OFF (ft-lbs):	D.P. ANN VELOCITY (mpm) :
BHA DESCRIPTION :			
TOOL DESCRIPTION	HRS	SERIAL #	COMMENT

Survey		MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	"V" SECT (m)	DOGLEG (deg/30m)	N/S (m)	E/W (m)	TOOL TYPE
Last Tool Type :	MWD	1,281	701	90.98	232.	232.7	756.1	1.49	-469.3	-592.8	MWD
Magnetic Declination :	0.00	1,310	701	89.67	232.	232.7	785.0	1.36	-486.8	-615.8	MWD
Survey method :	Min Curvature	1,339	701	89.82	233.	233.4	814.0	0.71	-504.2	-639.0	MWD
		1,368	701	90.46	234.	234.0	843.0	0.93	-521.5	-662.4	MWD

Bulk Stocks On Rig				
STOCK TYPE	START	USED	REC'D	STOCK
Barite	SX	336		336
Bentonite	SX	1546		1546
G-neat	SX	2166		2166
G+35% SiFI	SX			0
G+BFS+12.25% SiFI	SX			0
Pot Water	M3	98	26	98
Drill Water	M3	550	27	523
Heli-fuel	ltr	5843		5843
Base Oil	M3			0
Rig Fuel	M3	380		380
Brine	M3	0		0

Pump Data										
Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNDR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National 1	6.00	0	97	0	0	30	240	1180	9.3
2	National 1	6.00	47	97	93	680	40	310	1180	9.3
3	National 1	6.00	0	97	0	0	50	385	1180	9.3

DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	872.4	700.0		1.40 1.40	Mixed and pumped 378 sx og G cement, 78 bbls of slurry @ 1.89 sg. Displaced and bumped plug pressue tested casing to 3000 psi.

TYPE	LNTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
Well head	2.35	8.575	47.0	L-80	New Vam
X/over (NK3SB Pin x New Vam Box)	3.17	8.575	47.0	L-80	Vam x NK3
Pup Joint	3.07	8.575	47.0	L-80	NK3SB
Pup Joint	3.07	8.575	47.0	L-80	NK3SB
9 5/8" Casing	746.58	8.575	47.0	L-80	NK3SB
Float Joint	13.17	8.575	47.0	L-80	NK3SB
Intermediate Joint	12.04	8.575	47.0	L-80	NK3SB
Shoe Joint	12.54	8.575	47.0	L-80	NK3SB

Personnel : on Site =96			
JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	R.King	OMV	7
Drilling Supervisor (Nigh)	G.Othen	Service Company	34
Testing Supervisor	M.Mulliner	Diamond Offshore	47
Completion Supervisor	L.Taylor	Catering	8
Reservoir Engineer	A.Ion		
Sub Sea Engineer	W.Bates		
Drilling Engineer	P.Zehetleitner		

Safety, Inspections and Drills Summary

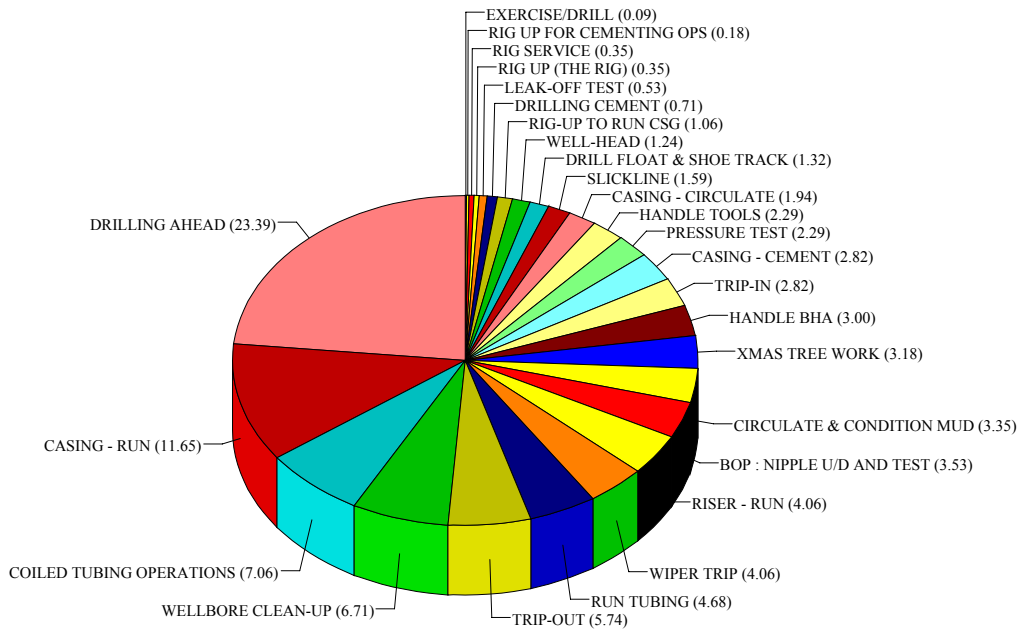
Shakers, Volumes and Losses Data						ENGINEER Graeme Garrick		
SHAKER 1	4x120	VOLUME AVAILABLE (bbl) =			591	LOSSES (bbl) =	0	COMMENTS Total losses aprox 450 bbls.
SHAKER 2	4x120	ACTIVE	MIXING		DOWNHOLE			
SHAKER 3	4x84	HOLE	405	SLUG	SURF. + EQUIP	0.00		
SHAKER 4	4x84	RESERVE	186	HEAVY	DUMPED			
SHAKER 5								

Anchors		A 1	270	A 2	250	A 3	175	A 4	345	A 5	140
		A 6	210	A 7	175	A 8	200				

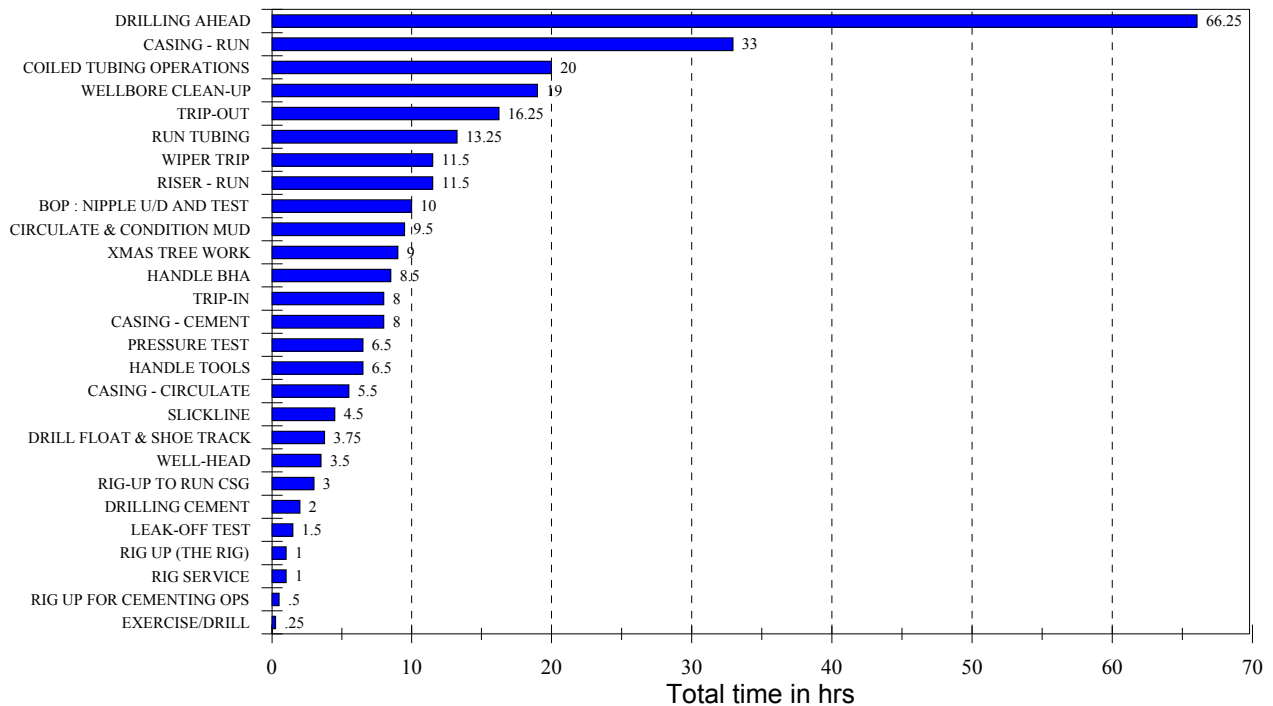
Workboats								Weather		Rig / Sea Data		
	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)	VISIBILITY(nm)		RIS.TENS (klbs)	
Pacific Sentinel	at Rig	296	1190	220	545		300		10		232	
Pacific Conqueror	Geelon	410		345	177				30.0		1,963	
									270		1.5	
									1003		1.2	
									12.0			

Total move time (hrs)	14.50	Total prod. time since spud (hrs) :	283.25
Total time on well excluding move (hrs)	321.00	Total troub. time since spud (hrs)	37.75
		% Trouble time	11.76

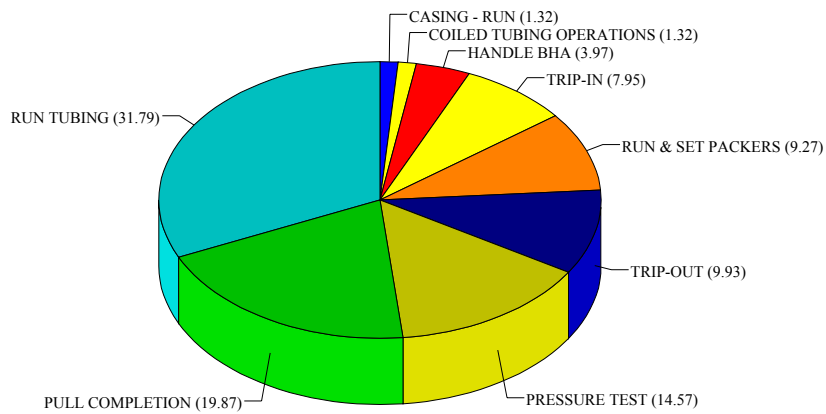
Productive Time by Op.



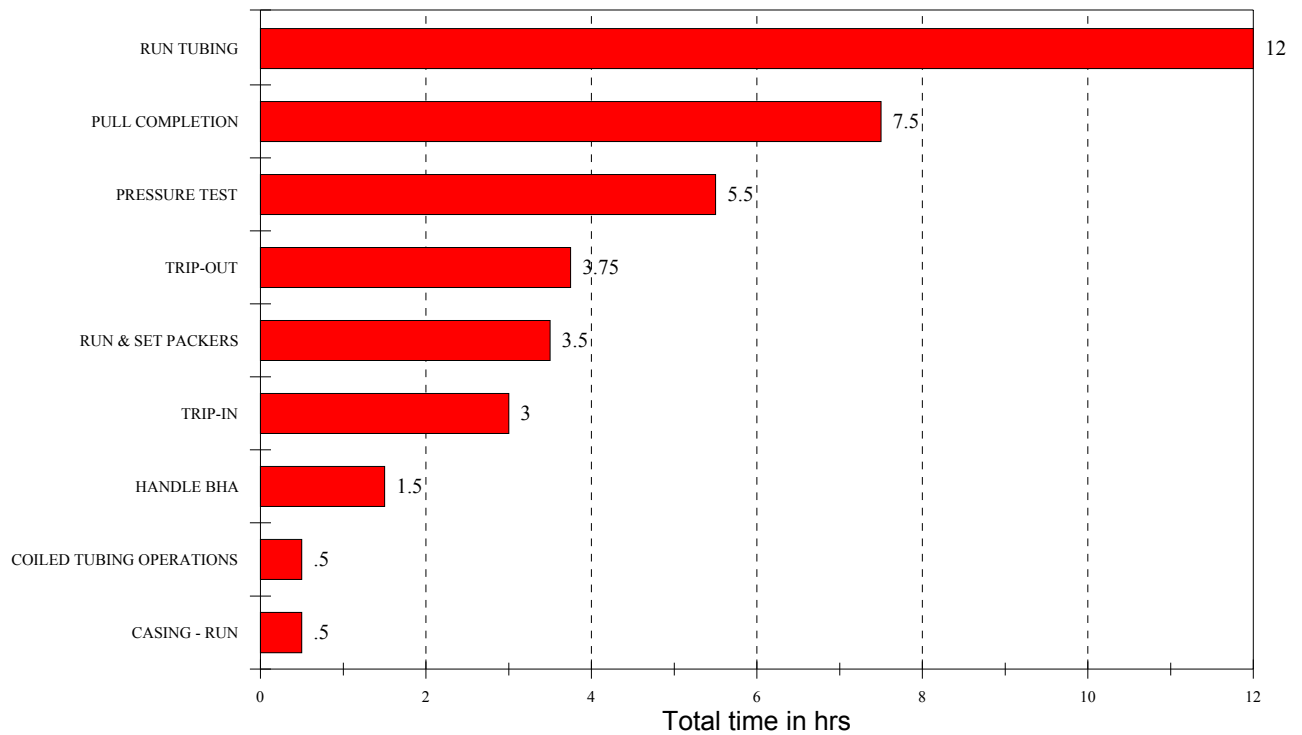
Productive time by Operation



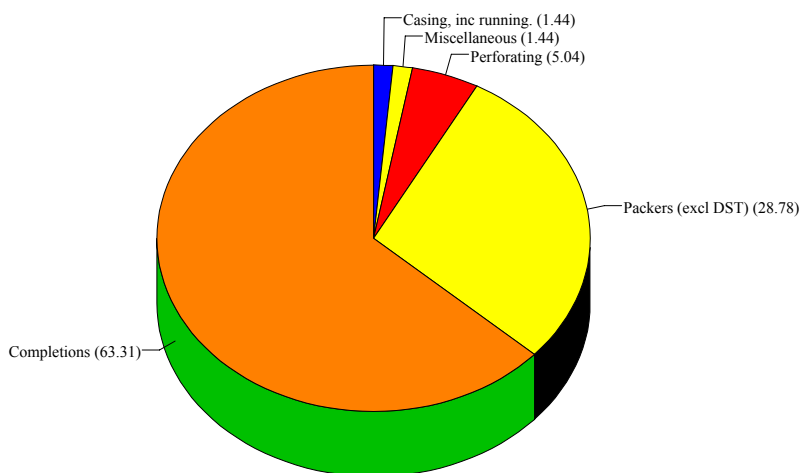
Trouble Time by Op.



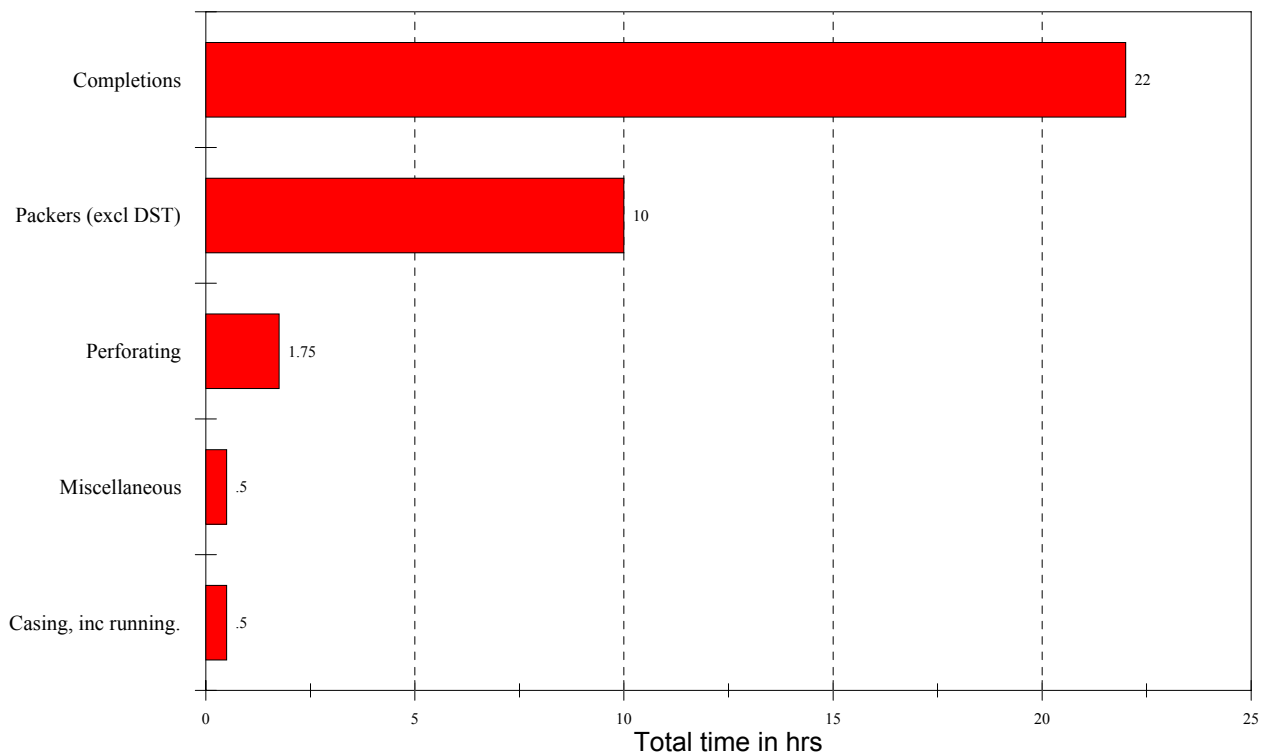
NPT by Operation



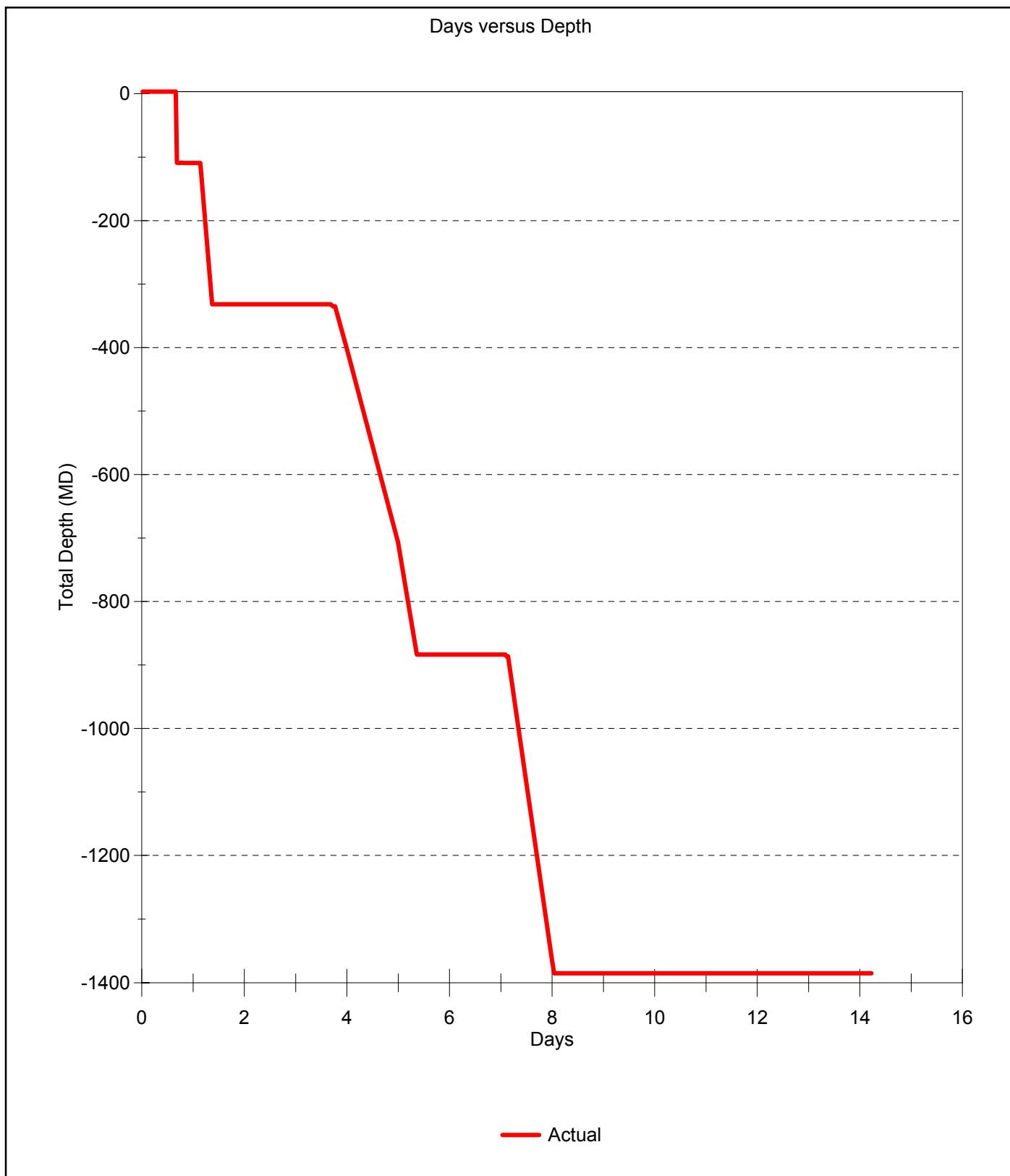
Root Cause Analysis



Root Cause Analysis



DEPTH @ 24:00 = 1,385.0m after 14.00 days since spud



OMV Australia

DAILY DRILLING REPORT # 15

DATE Jul 04, 2002

FROM : R. King /G. Othen
TO : C. Allport / S. Crocker

Patricia-2

VIC/L21

Well Data		DEPTH (mBRT)	1,385.0	CUR. HOLE SIZE (")	8.50	AFE COST \$	11,852,851
COUNTRY	AUSTRALIA	TVD (mBRT)	701.2	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
FIELD	GIPPSLAND SUB-BASIN	PROGRESS (m)	0.0	SHOE TVD (mBRT)	700	DAILY COST :	\$262,158.00
DRILL CO.	DIAMOND OFFSHORE	DAYS ON WELL	15.00	FIT (sg)	1.40	CUM COST :	\$8,582,290.00
RIG	OCEAN BOUNTY	DAYS +/- CURVE	-1.50	LOT (sg)	0.00		
RT ABOVE SL (m)	25.0	CURRENT OP @ 0600 Flowing Well.					
WATER DEPTH (m) LAT	52.5	PLANNED OP. Continue to flow well. Shut well in for build up. Suspend well.					
RT TO SEABED (m)	77.5						

Summary of period 0000 to 2400 hrs
Well Testing.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jul 04, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
PT	P		WCU	00:00	11:00	11.00	1,385	Flowed well for clean up flow period. (Shut well in @ 10:57 hrs)
PT	P		FLO	11:00	15:30	4.50	1,385	Well shut in and build up monitored.
PT	P		FLO	15:30	24:00	8.50	1,385	Opened well continued flow.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jul 05, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
PT	P		FLO	00:00	06:00	6.00	1,385	Continued to flow well.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	12.0	Jun 20, 2002	Jun 20, 2002	12.0	0.50	0.0	0.0
RIG-UP/PRESPUD	2.5	Jun 20, 2002	Jun 20, 2002	14.5	0.60	0.0	0.0
CONDUCTOR HOLE	4.0	Jun 20, 2002	Jun 20, 2002	18.5	0.77	0.0	112.0
CONDUCTORS	5.5	Jun 20, 2002	Jun 20, 2002	24.0	1.00	112.0	112.0
SURFACE HOLE	15.0	Jun 21, 2002	Jun 21, 2002	39.0	1.63	112.0	334.0
SURFACE CASING	41.0	Jun 21, 2002	Jun 23, 2002	80.0	3.33	334.0	334.0
INTERMEDIATE HOLE (1)	60.5	Jun 23, 2002	Jun 25, 2002	140.5	5.85	334.0	884.0
INTERMEDIATE CASING (1)	29.8	Jun 25, 2002	Jun 27, 2002	170.3	7.09	884.0	884.0
PRODUCTION HOLE (1)	34.8	Jun 27, 2002	Jun 28, 2002	205.0	8.54	887.0	1,385.0
PRODUCTION CSG/LNR(1)	38.0	Jun 28, 2002	Jun 30, 2002	243.0	10.13	1,385.0	1,385.0
COMPLETION/TIE-BACK	69.5	Jun 30, 2002	Jul 03, 2002	312.5	13.02	1,385.0	1,385.0
PRODUCTION TEST	47.0	Jul 03, 2002	Jul 04, 2002	359.5	14.98	1,385.0	1,385.0

WBM Data	COST TODAY : \$0	CUM. WB MUD COST: \$199,454	CUM. WBM+OBM COST: \$199,454
Type :	KCL Brine	VISCOCITY (sec/qt) :	API FLUID LOSS (cm ³ /30min) :
FROM :		PV (cps) :	FILTER CAKE (32nds inch) :
TIME :		YP (lb100sq.ft) :	HTHPFL (cm ³ /30min) :
WEIGHT (sg) :	1.08	GEL 10s/10m/100m (lb100sq.ft) :	HTHP CAKE (32nds inch) :
TEMP (C) :		Fann 3/6/100 :	
			CI :
			K+C*1000 :
			HARD/Ca :
			MBT (ppb) :
			PM :
			PF :
			SOLIDS (%vol) :
			H2O (%vol) :
			OIL (%vol) :
			SAND :
			PH :
			PHPA (ppb) :

BHA #4	Length (ft) :	D.C. (1) ANN. VELOCITY (mpm) :	0
WT BLW JAR(k-lbs) :	STRING WT(k-lbs) :	D.C. (2) ANN VELOCITY (mpm) :	0
BHA WT(k-lbs) :	PICK UP WT(k-lbs) :	H.W.D.P. ANN VELOCITY (mpm) :	0
	SLK OFF WT(k-lbs) :	D.P. ANN VELOCITY (mpm) :	0
BHA DESCRIPTION :			
TOOL DESCRIPTION	HRS	SERIAL #	COMMENT

Survey		MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/30m)	N/S (m)	E/W (m)	TOOL TYPE
Last Tool Type :	MWD	1,281	701	90.98	232.	232.7	756.1	1.49	-469.3	-592.8	MWD
Magnetic Declination :	0.00	1,310	701	89.67	232.	232.7	785.0	1.36	-486.8	-615.8	MWD
Survey method :	Min Curvature	1,339	701	89.82	233.	233.4	814.0	0.71	-504.2	-639.0	MWD
		1,368	701	90.46	234.	234.0	843.0	0.93	-521.5	-662.4	MWD

Bulk Stocks On Rig				
STOCK TYPE	START	USED	REC'D	STOCK
Barite	SX	336		336
Bentonite	SX	1546		1546
G-neat	SX	2166		2166
G+35% SiFI	SX			0
G+BFS+12.25% SiFI	SX			0
Pot Water	M3	98	25	25
Drill Water	M3	523	36	487
Heli-fuel	ltr	5843	403	5440
Base Oil	M3			0
Rig Fuel	M3	380	10	370
Brine	M3	0		0

Pump Data										
Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National 1	6.00	0	97	0	0	30	240	1180	9.3
2	National 1	6.00	47	97	93	680	40	310	1180	9.3
3	National 1	6.00	0	97	0	0	50	385	1180	9.3

Casing						
DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	872.4	700.0		1.40 1.40	Mixed and pumped 378 sx og G cement, 78 bbls of slurry @ 1.89 sg. Displaced and bumped plug pressue tested casing to 3000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
Well head	2.35	8.575	47.0	L-80	New Vam
X/over (NK3SB Pin x New Vam Box)	3.17	8.575	47.0	L-80	Vam x NK3
Pup Joint	3.07	8.575	47.0	L-80	NK3SB
Pup Joint	3.07	8.575	47.0	L-80	NK3SB
9 5/8" Casing	746.58	8.575	47.0	L-80	NK3SB
Float Joint	13.17	8.575	47.0	L-80	NK3SB
Intermediate Joint	12.04	8.575	47.0	L-80	NK3SB
Shoe Joint	12.54	8.575	47.0	L-80	NK3SB

Personnel : on Site =95

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	R.King	OMV	7
Drilling Supervisor (Nigh)	G.Othen	Service Company	33
Testing Supervisor	M.Mulliner	Diamond Offshore	47
Completion Supervisor	L.Taylor	Catering	8
Reservoir Engineer	A.Ion		
Sub Sea Engineer	W.Bates		
Drilling Engineer	P.Zehetleitner		

Safety, Inspections and Drills Summary

Shakers, Volumes and Losses Data				ENGINEER Graeme Garrick
SHAKER 1 4x120	VOLUME AVAILABLE (bbl) = 591 ACTIVE MIXING HOLE 405 SLUG RESERVE 186 HEAVY	LOSSES (bbl) = 0 DOWNHOLE SURF. + EQUIP 0.00 DUMPED	COMMENTS Total losses aprox 450 bbls.	
SHAKER 2 4x120				
SHAKER 3 4x84				
SHAKER 4 4x84				
SHAKER 5				

anchors	A 1 305	A 2 297	A 3 192	A 4 345	A 5 130
	A 6 185	A 7 165	A 8 200		

Workboats								Weather		Rig / Sea Data	
Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)	VISIBILITY(nm)	RIS.TENS (klbs)	VDL (mt)	
Pacific Sentinel	at Rig	285	1190	215	545	300		10	232	1,778	
Pacific Conqueror	On Rou	410		345	177			35.0			
								290			1.8
								1002			2.4
								15.0			

DATE Jul 04, 2002

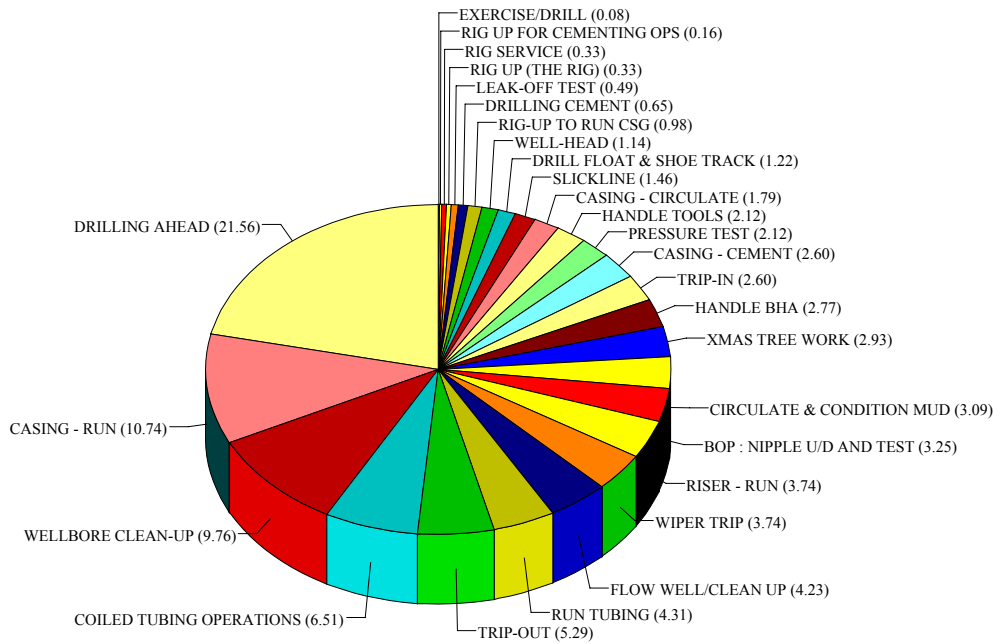
DAILY DRILLING REPORT # 15

Patricia-2

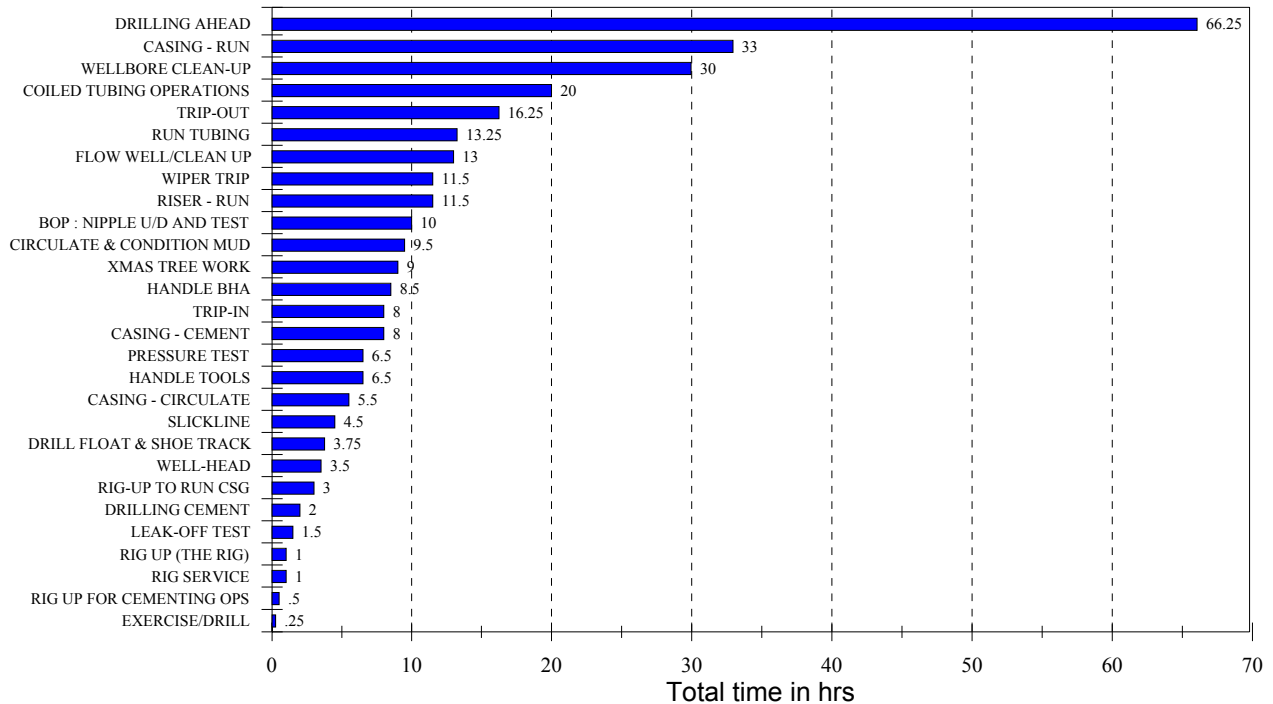
VIC/L21

Total move time (hrs)	14.50	Total prod. time since spud (hrs) :	307.25
Total time on well excluding move (hrs)	345.00	Total troub. time since spud (hrs)	37.75
		% Trouble time	10.94

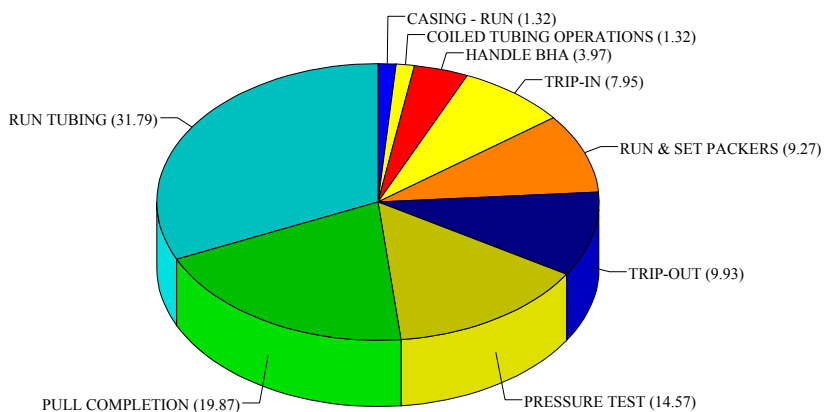
Productive Time by Op.



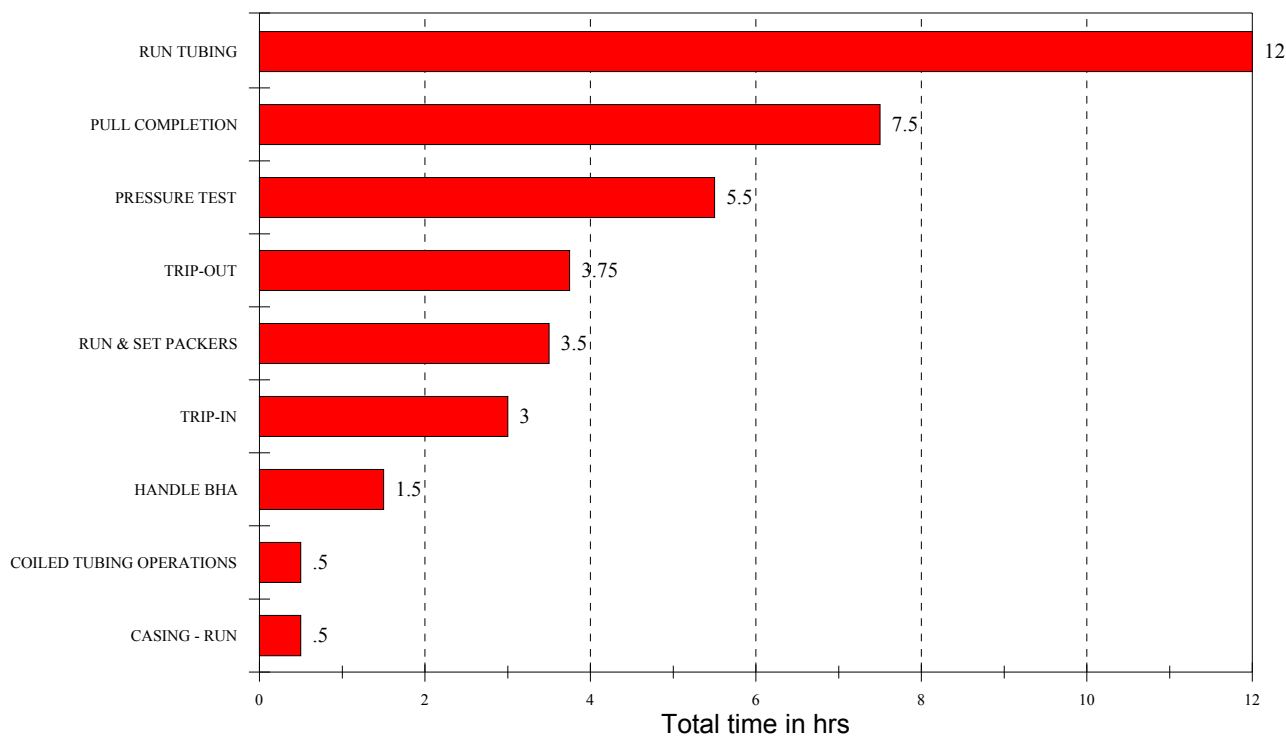
Productive time by Operation



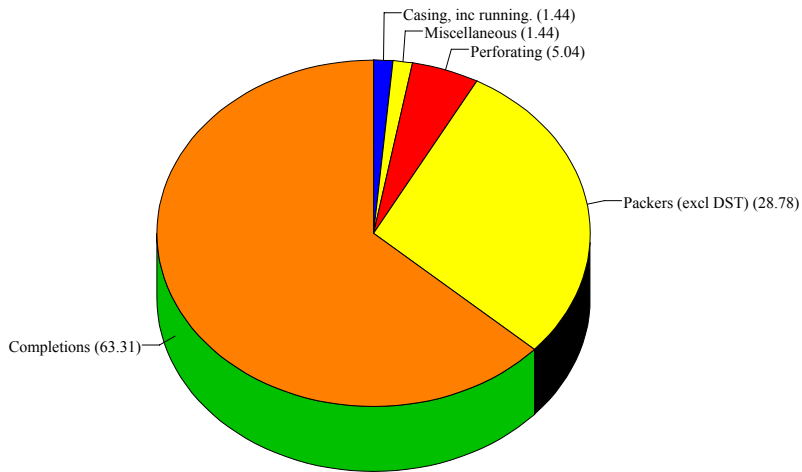
Trouble Time by Op.



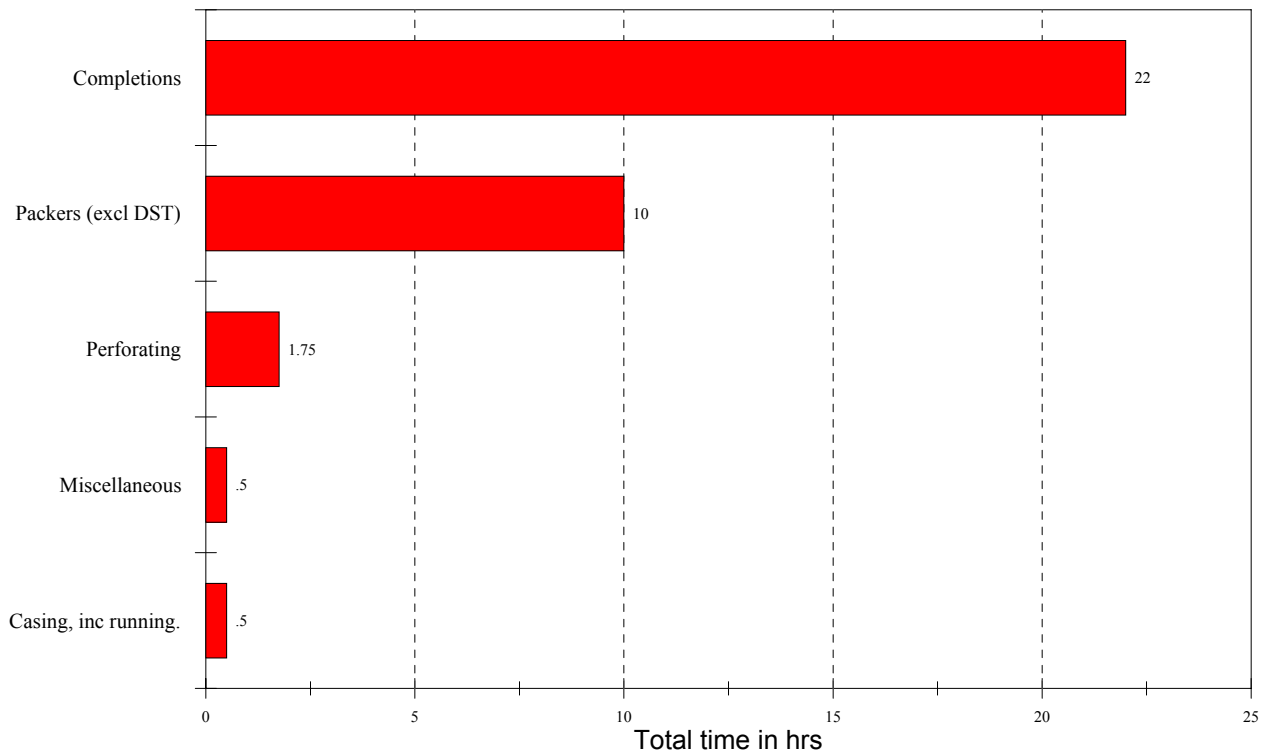
NPT by Operation



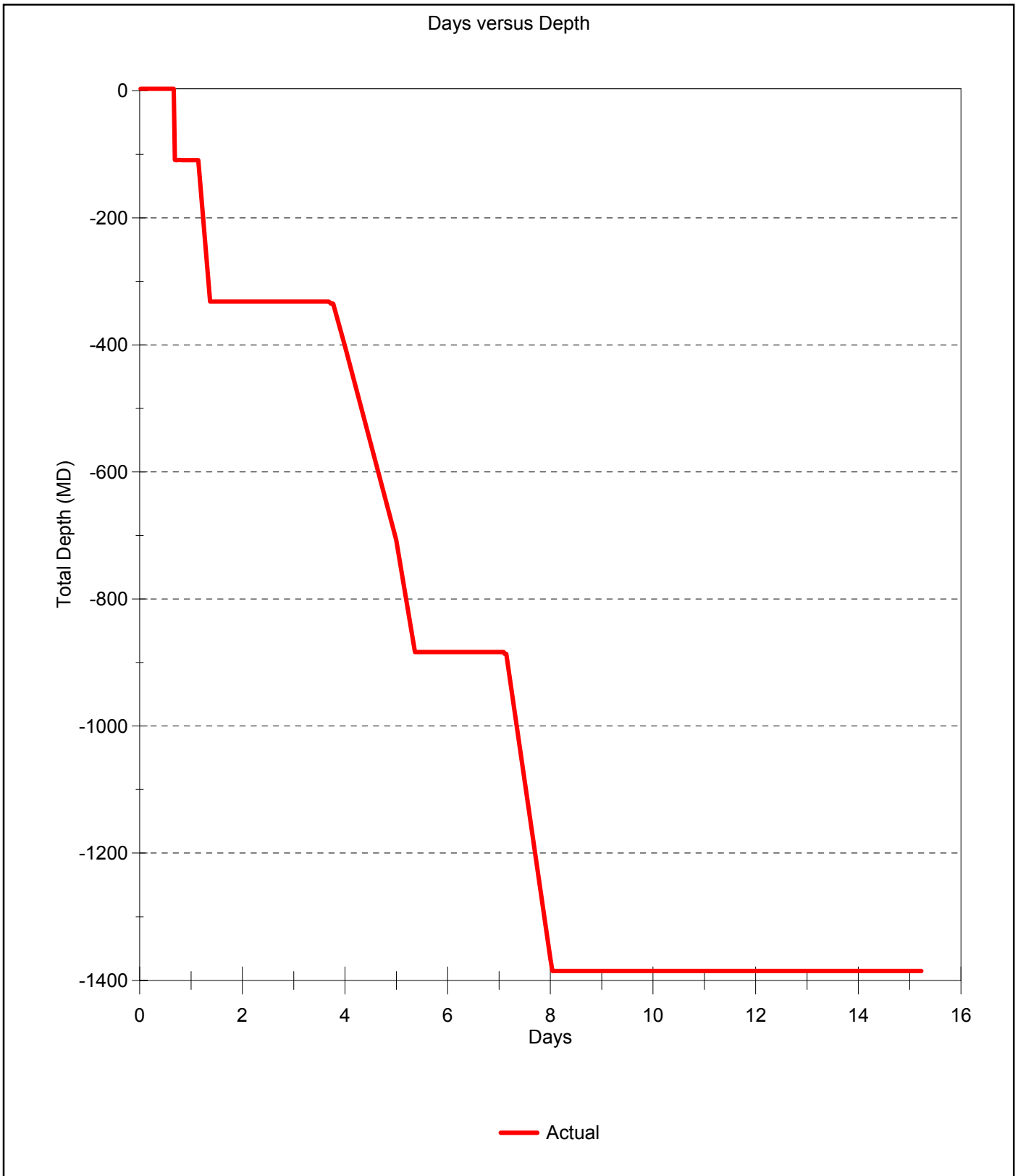
Root Cause Analysis



Root Cause Analysis



DEPTH @ 24:00 = 1,385.0m after 15.00 days since spud



DATE Jul 05, 2002

FROM : R. King /G. Othen
TO : C. Allport / S. Crocker

Patricia-2

VIC/L21

Well Data		DEPTH (mBRT)	1,385.0	CUR. HOLE SIZE (")	8.50	AFE COST \$	11,852,851
COUNTRY	AUSTRALIA	TVD (mBRT)	701.2	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
FIELD	GIPPSLAND SUB-BASIN	PROGRESS (m)	0.0	SHOE TVD (mBRT)	700	DAILY COST :	\$384,597.00
DRILL CO.	DIAMOND OFFSHORE	DAYS ON WELL	16.00	FIT (sg)	1.40	CUM COST :	\$8,966,887.00
RIG	OCEAN BOUNTY	DAYS +/- CURVE	-3.00	LOT (sg)	0.00		
RT ABOVE SL (m)	25.0	CURRENT OP @ 0600 Running Internal Tree Cap.					
WATER DEPTH (m) LAT	52.5	PLANNED OP. Run Tree cap with SSR Plug installed. Pull BOP.					
RT TO SEABED (m)	77.5						

Summary of period 0000 to 2400 hrs

Continued Well Testing / Installed SSR Plug in Hanger & Tested. Rigged down and prepared to pull landing string.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jul 05, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
PT	P		FLO	00:00	10:00	10.00	1,385	Continued to flow well.
PT	P		FLO	10:00	13:15	3.25	1,385	Well shut in, monitor build up. (End of test @ 13:15 hrs)
PT	P		CTO	13:15	14:30	1.25	1,385	POOH with Coil tubing.
PT	P		PT	14:30	15:15	.75	1,385	Closed SCSSV and preformed an inflow test. OK.
PT	P		CTO	15:15	19:00	3.75	1,385	Held JSA. Rigged down Coil tubing injector head and BOP. Rigged up slick line lubricator and pressure tested 3500 psi.
SUS	P		SLK	19:00	20:15	1.25	1,385	RIH with 5.25 brush and cleaned pulg landing profile. Pulled tool to surface no brush, ran back and fished brush.
SUS	P		SLK	20:15	23:15	3.00	1,385	Ran 5.25 SSR plug landed in Subsea tree tubing hanger, pressure tested 3000 psi. Bled down and preformed an inflow test OK. Rigged down slick line.
SUS	P		CMD	23:15	24:00	.75	1,385	Unlatched SST and reverse circulated landing string content.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jul 06, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
SUS	P		PCO	00:00	02:00	2.00	1,385	Laid out Flow head and Lifting frame.
SUS	P		PCO	02:00	03:30	1.50	1,385	POOH with 7" Landing string.
SUS	P		XT	03:30	04:30	1.00	1,385	Made up Jetting tool, RIH and jetted ITC profile.
SUS	P		XT	04:30	06:00	1.50	1,385	Made up & RIH with Internal Tree Cap on 7" Landing string.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	12.0	Jun 20, 2002	Jun 20, 2002	12.0	0.50	0.0	0.0
RIG-UP/PRESPUD	2.5	Jun 20, 2002	Jun 20, 2002	14.5	0.60	0.0	0.0
CONDUCTOR HOLE	4.0	Jun 20, 2002	Jun 20, 2002	18.5	0.77	0.0	112.0
CONDUCTORS	5.5	Jun 20, 2002	Jun 20, 2002	24.0	1.00	112.0	112.0
SURFACE HOLE	15.0	Jun 21, 2002	Jun 21, 2002	39.0	1.63	112.0	334.0
SURFACE CASING	41.0	Jun 21, 2002	Jun 23, 2002	80.0	3.33	334.0	334.0
INTERMEDIATE HOLE (1)	60.5	Jun 23, 2002	Jun 25, 2002	140.5	5.85	334.0	884.0
INTERMEDIATE CASING (1)	29.8	Jun 25, 2002	Jun 27, 2002	170.3	7.09	884.0	884.0
PRODUCTION HOLE (1)	34.8	Jun 27, 2002	Jun 28, 2002	205.0	8.54	887.0	1,385.0
PRODUCTION CSG/LNR(1)	38.0	Jun 28, 2002	Jun 30, 2002	243.0	10.13	1,385.0	1,385.0
COMPLETION/TIE-BACK	69.5	Jun 30, 2002	Jul 03, 2002	312.5	13.02	1,385.0	1,385.0
PRODUCTION TEST	66.0	Jul 03, 2002	Jul 05, 2002	378.5	15.77	1,385.0	1,385.0
SUSPENSION	5.0	Jul 05, 2002	Jul 05, 2002	383.5	15.98	1,385.0	1,385.0

WBM Data		COST TODAY : \$0	CUM. WB MUD COST: \$199,454	CUM. WBM+OBM COST: \$199,454
Type :	KCL Brine	VISCOCITY (sec/qt) :	API FLUID LOSS (cm3/30min) :	CI :
FROM :		PV (cps):	FILTER CAKE (32nds inch) :	K+C*1000 :
TIME :		YP (lb100sq.ft):	HHPFL (cm3/30min) :	HARD/Ca :
WEIGHT (sg) :	1.08	GEL 10s/10m/100m (lb100sq.ft) :	HTHP CAKE (32nds inch) :	MBT (ppb) :
TEMP (C) :		Fann 3/6/100 :		PM :
				PF :
				SOLIDS (%vol) :
				H2O (%vol) :
				OIL (%vol) :
				SAND :
				PH :
				PHPA (ppb) :

BHA #4 Length (ft) :		D.C. (1) ANN. VELOCITY (mpm):		0
WT BLW JAR(k-lbs):	STRING WT(k-lbs) :	TRQE MAX (ft-lbs):	D.C. (2) ANN VELOCITY (mpm):	0
BHA WT(k-lbs) :	PICK UP WT(k-lbs) :	TRQE ON (ft-lbs):	H.W.D.P. ANN VELOCITY (mpm):	0
	SLK OFF WT(k-lbs) :	TRQE OFF (ft-lbs):	D.P. ANN VELOCITY (mpm) :	0
BHA DESCRIPTION :				
TOOL DESCRIPTION		HRS	SERIAL #	COMMENT

Survey											
Last Tool Type :	MWD	MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	"V" SECT (m)	DOGLEG (deg/30m)	N/S (m)	E/W (m)	TOOL TYPE
Magnetic Declination :	0.00	1,281	701	90.98	232.	232.7	756.1	1.49	-469.3	-592.8	MWD
Survey method :	Min Curvature	1,310	701	89.67	232.	232.7	785.0	1.36	-486.8	-615.8	MWD
		1,339	701	89.82	233.	233.4	814.0	0.71	-504.2	-639.0	MWD
		1,368	701	90.46	234.	234.0	843.0	0.93	-521.5	-662.4	MWD

Bulk Stocks On Rig				
STOCK TYPE	START	USED	REC'D	STOCK
Barite	SX	336		336
Bentonite	SX	1546		1546
G-neat	SX	2166		2166
G+35% SiFI	SX			0
G+BFS+12.25% SiFI	SX			0
Pot Water	M3	98	26	98
Drill Water	M3	487	11	476
Heli-fuel	ltr	5440		5440
Base Oil	M3			0
Rig Fuel	M3	370	11	359
Brine	M3	0		0

Pump Data										
Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNDR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National 1	6.00	0	97	0	0	30	240	1180	9.3
2	National 1	6.00	47	97	93	680	40	310	1180	9.3
3	National 1	6.00	0	97	0	0	50	385	1180	9.3

Casing						
DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	872.4	700.0		1.40 1.40	Mixed and pumped 378 sx og G cement, 78 bbls of slurry @ 1.89 sg. Displaced and bumped plug pressue tested casing to 3000 psi.

TYPE	LNTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
Well head	2.35	8.575	47.0	L-80	New Vam
X/over (NK3SB Pin x New Vam Box)	3.17	8.575	47.0	L-80	Vam x NK3
Pup Joint	3.07	8.575	47.0	L-80	NK3SB
Pup Joint	3.07	8.575	47.0	L-80	NK3SB
9 5/8" Casing	746.58	8.575	47.0	L-80	NK3SB
Float Joint	13.17	8.575	47.0	L-80	NK3SB
Intermediate Joint	12.04	8.575	47.0	L-80	NK3SB
Shoe Joint	12.54	8.575	47.0	L-80	NK3SB

Personnel : on Site =91			
JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	R.King	OMV	7
Drilling Supervisor (Nigh)	G.Othen	Service Company	28
Testing Supervisor	M.Mulliner	Diamond Offshore	48
Completion Supervisor	L.Taylor	Catering	8
Reservoir Engineer	A.Ion		
Sub Sea Engineer	W.Bates		
Drilling Engineer	P.Zehetleitner		

Safety, Inspections and Drills Summary

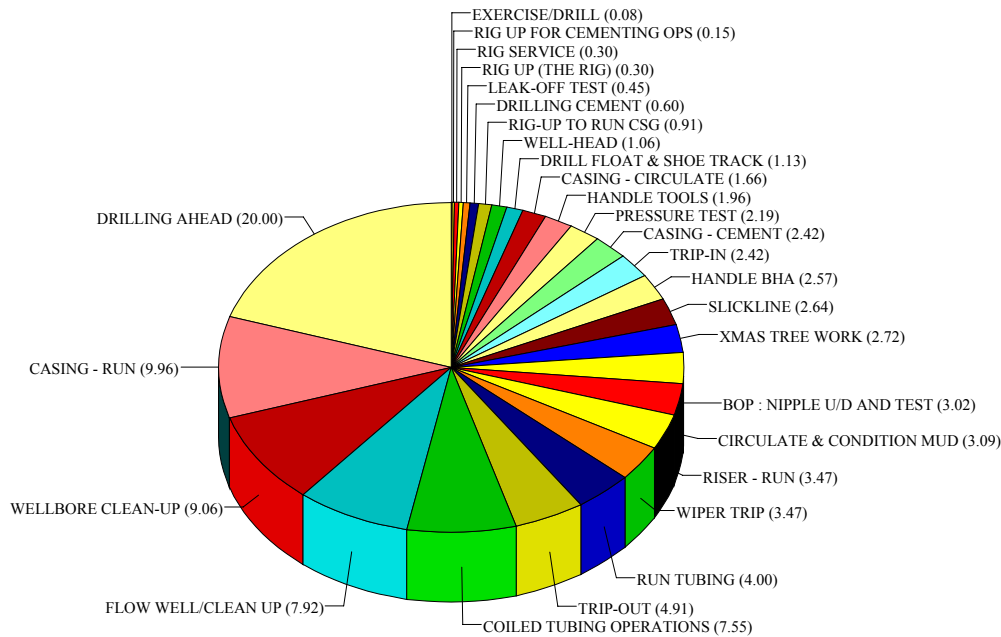
Shakers, Volumes and Losses Data					ENGINEER Graeme Garrick			
SHAKER 1	4x120	VOLUME AVAILABLE (bbl) =			591	LOSSES (bbl) =	0	COMMENTS
SHAKER 2	4x120	ACTIVE			MIXING	DOWNHOLE		
SHAKER 3	4x84	HOLE			405	SLUG	0.00	
SHAKER 4	4x84	RESERVE			186	HEAVY		
SHAKER 5								

Anchors		A 1	320	A 2	320	A 3	210	A 4	336	A 5	135
		A 6	180	A 7	175	A 8	175				

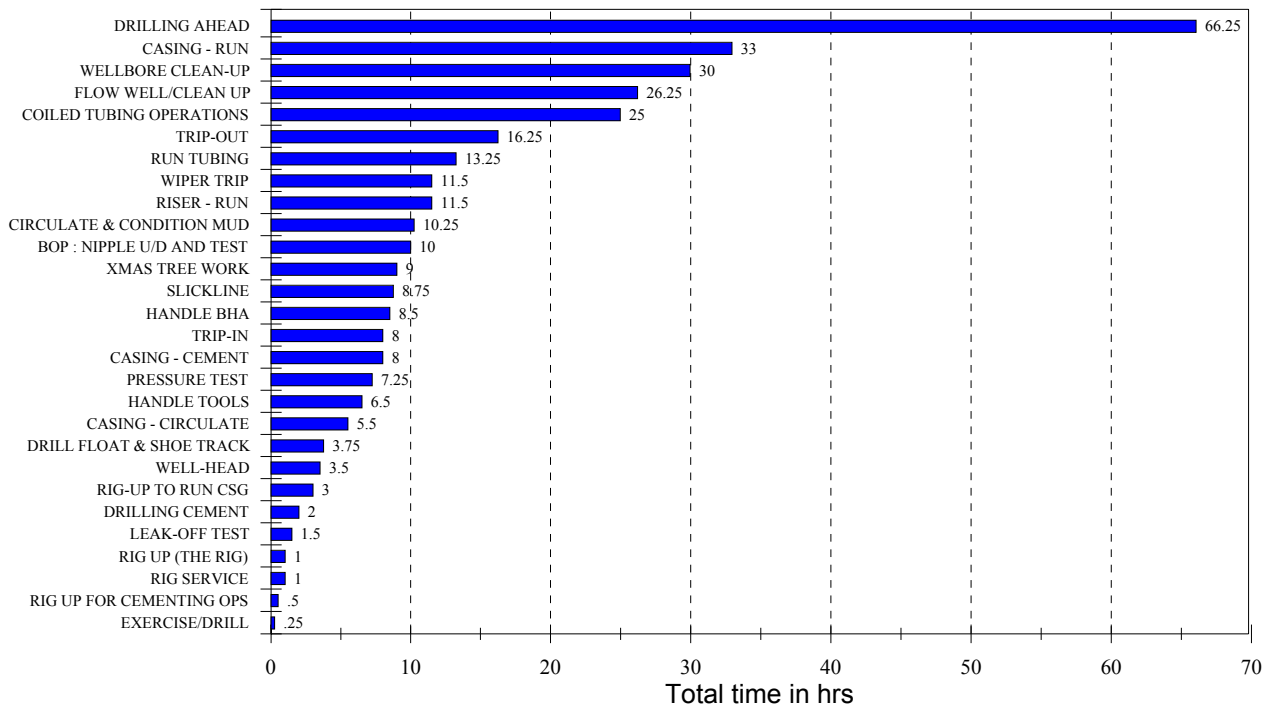
Workboats									Weather		Rig / Sea Data	
	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)				
Pacific Sentinel	at Rig	285	1190	215	545		300		VISIBILITY(nm)	10	RIS.TENS (klbs)	232
Pacific Conqueror	On Rou	410		345	177				WIND SP. (kts)	35.0	VDL (mt)	1,910
									WIND DIR (deg)	290	WAVES (m)	1.8
									PRES.(mbars)	1001	SWELL (m)	8.0
									AIR TEMP (C)	15.0		

Total move time (hrs)	14.50	Total prod. time since spud (hrs) :	331.25
Total time on well excluding move (hrs)	369.00	Total troub. time since spud (hrs)	37.75
		% Trouble time	10.23

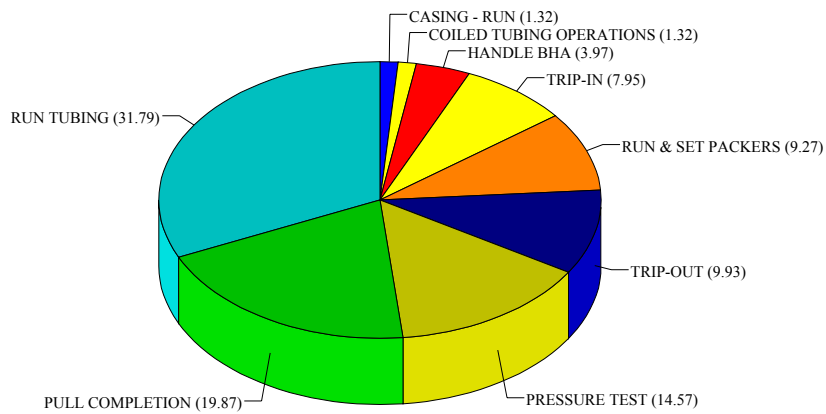
Productive Time by Op.



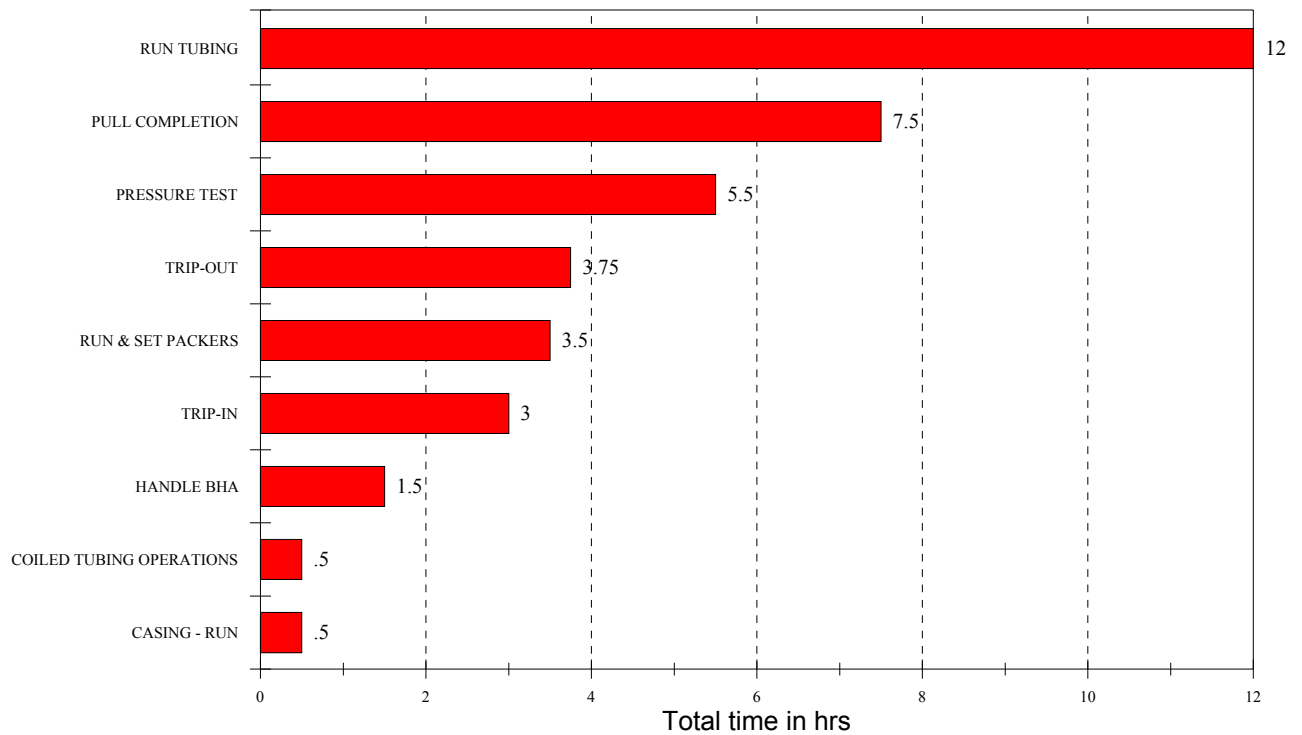
Productive time by Operation



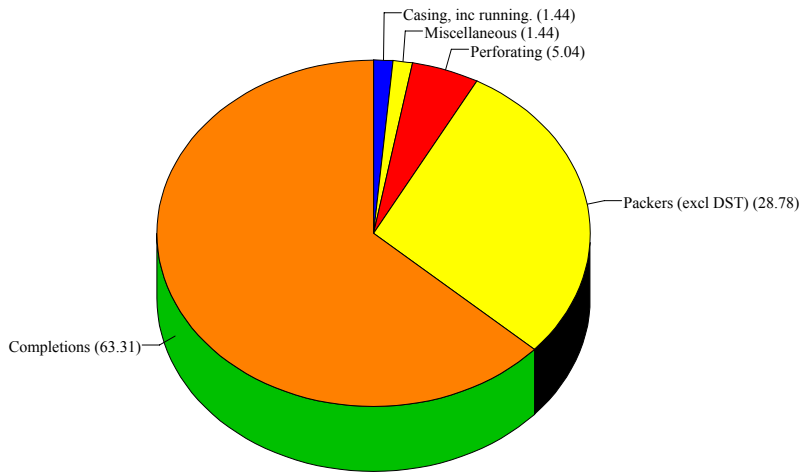
Trouble Time by Op.



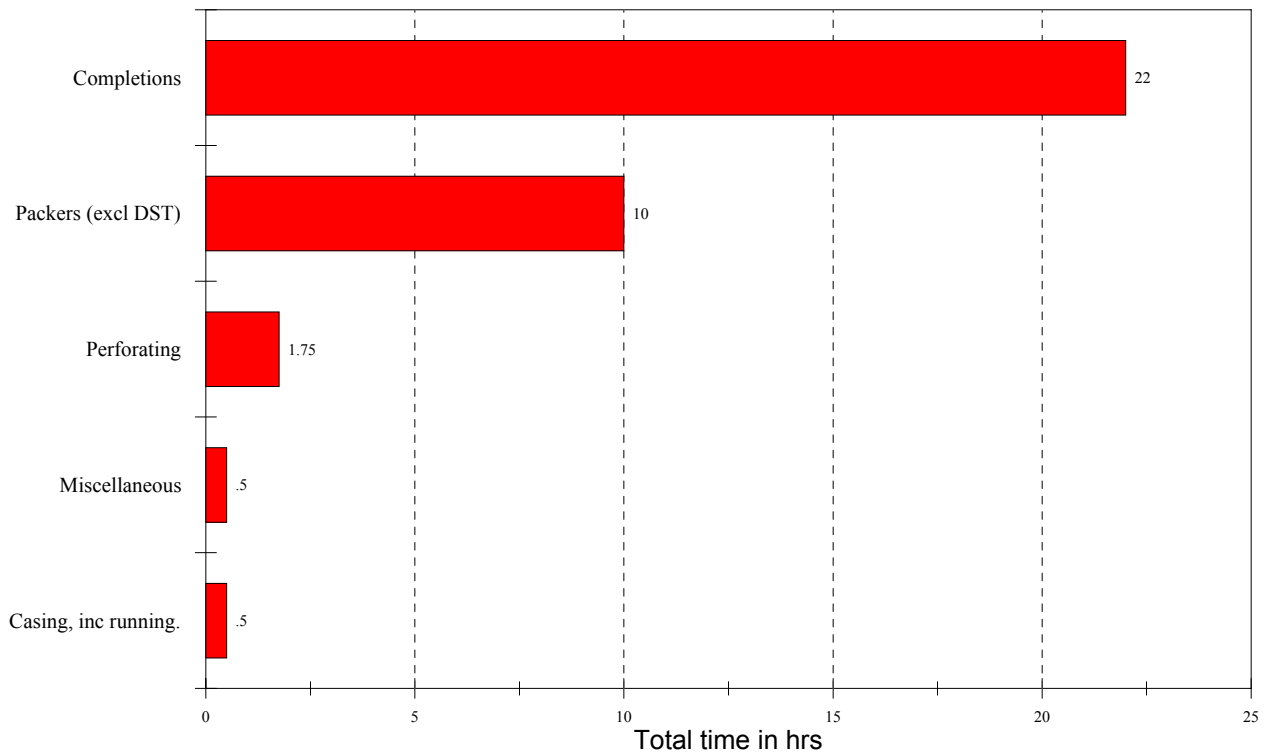
NPT by Operation



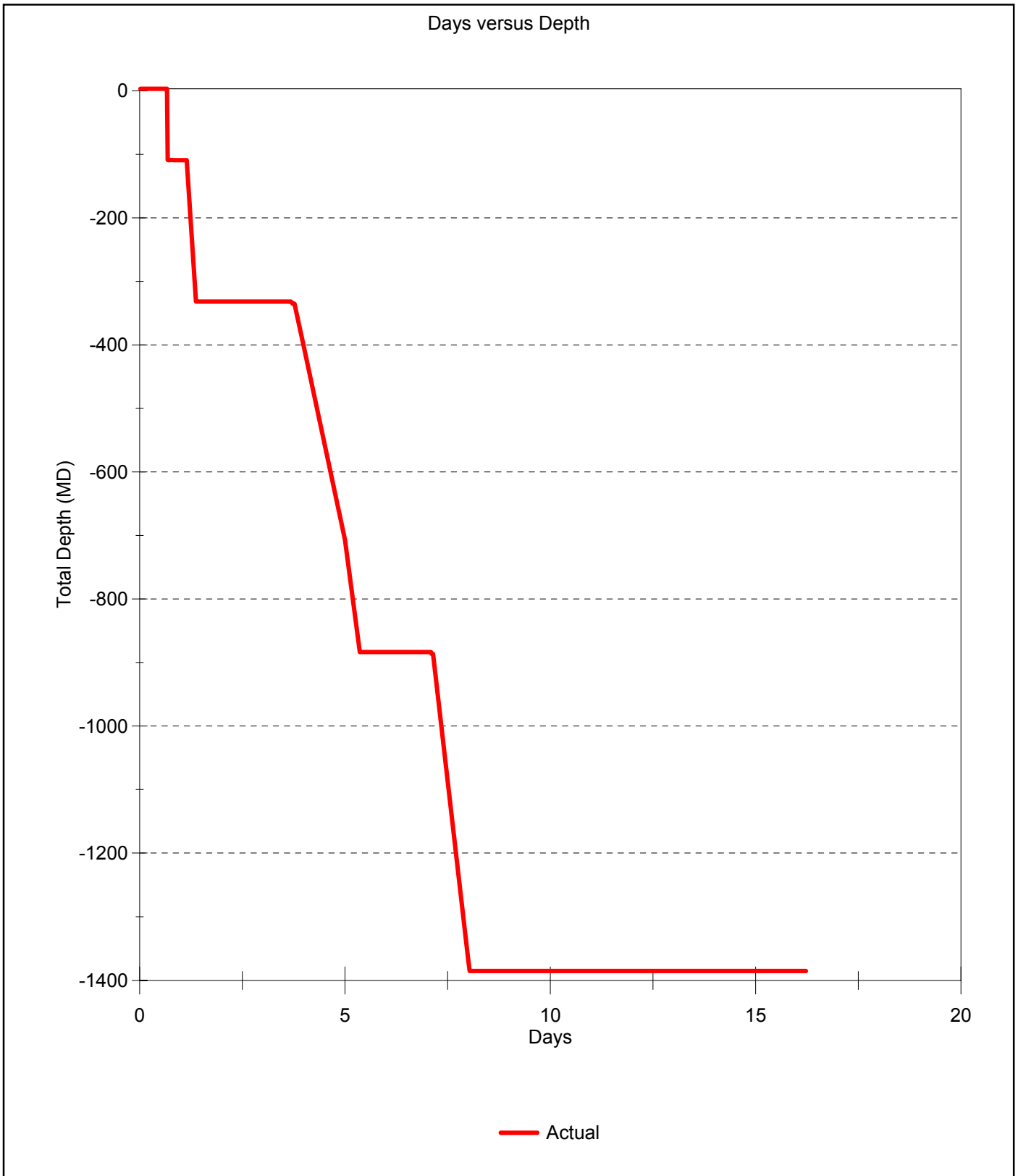
Root Cause Analysis



Root Cause Analysis



DEPTH @ 24:00 = 1,385.0m after 16.00 days since spud



DATE Jul 06, 2002

FROM : R. King /G. Othen
TO : C. Allport / S. Crocker

Patricia-2

VIC/L21

Well Data		DEPTH (mBRT)	1,385.0	CUR. HOLE SIZE (")	8.50	AFE COST \$	11,852,851
COUNTRY	AUSTRALIA	TVD (mBRT)	701.2	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
FIELD	GIPPSLAND SUB-BASIN	PROGRESS (m)	0.0	SHOE TVD (mBRT)	700	DAILY COST :	\$338,167.00
DRILL CO.	DIAMOND OFFSHORE	DAYS ON WELL	17.00	FIT (sg)	1.40	CUM COST :	\$9,305,054.00
RIG	OCEAN BOUNTY	DAYS +/- CURVE	-3.00	LOT (sg)	0.00		
RT ABOVE SL (m)	25.0	CURRENT OP @ 0600 Waiting on weather.					
WATER DEPTH (m) LAT	52.5	PLANNED OP. Wait for weather to improve to pull BOP.					
RT TO SEABED (m)	77.5						

Summary of period 0000 to 2400 hrs

Laid out Flow head & 7" Landing string. Jetted ITC profile, Run land and tested Internal Tree Cap. Prepared to pull BOP. Waiting on weather.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jul 06, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
SUS	P		PCO	00:00	02:00	2.00	1,385	Laid out Flow head & Lifting frame.
SUS	P		PCO	02:00	03:30	1.50	1,385	POOH with 7" Landing string.
SUS	P		XT	03:30	04:30	1.00	1,385	Made up Jetting tool, RIH and jetted ITC profile.
SUS	P		XT	04:30	06:00	1.50	1,385	Made up & RIH with Internal Tree Cap on 7" Landing string, pressure tested SSR Plug from above 5000 psi / 10 min.
SUS	P		XT	06:00	07:00	1.00	1,385	Continued RIH landed Internal Tree Cap.
SUS	TP	WHD	XT	07:00	08:30	1.50	1,385	Opened AAX and X/Overs, trapped pressure inside lines pressure evacuated riser fluid. Flow checked and circulated riser volume.
SUS	P		PT	08:30	09:00	.50	1,385	Picked up ITC above BOP. Pressure tested 5.25" TGB Hanger SSR Plug against Shear rams 3000 psi / 10 min.
SUS	P		PT	09:00	10:00	1.00	1,385	Run and landed Internal tree Cap, closed Annular & pressure tested 3500 psi. Confirmed with 50 kips Over pull.
SUS	P		PCO	10:00	13:30	3.50	1,385	Unlatched Internal tree cap, POOH laid out 7" landing string. (ROV pulled control umbilical free plate. Removed plate & recovered deployment frame to surface. Attempted to close TCT needle valve, unable to close due to insufficient torque on ROV)
RMO	P		BOP	13:30	14:30	1.00	1,385	Make up jetting tool for BOP & Rigged up to pull BOP.
RMO	TP	WEA	NOW	14:30	24:00	9.50	1,385	Unable to unlatch BOP. Inclement weather.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jul 07, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
RMO	TP	WEA	NOW	00:00	06:00	6.00	1,385	Continue to wait on weather.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	12.0	Jun 20, 2002	Jun 20, 2002	12.0	0.50	0.0	0.0
RIG-UP/PRESPUD	2.5	Jun 20, 2002	Jun 20, 2002	14.5	0.60	0.0	0.0
CONDUCTOR HOLE	4.0	Jun 20, 2002	Jun 20, 2002	18.5	0.77	0.0	112.0
CONDUCTORS	5.5	Jun 20, 2002	Jun 20, 2002	24.0	1.00	112.0	112.0
SURFACE HOLE	15.0	Jun 21, 2002	Jun 21, 2002	39.0	1.63	112.0	334.0
SURFACE CASING	41.0	Jun 21, 2002	Jun 23, 2002	80.0	3.33	334.0	334.0
INTERMEDIATE HOLE (1)	60.5	Jun 23, 2002	Jun 25, 2002	140.5	5.85	334.0	884.0
INTERMEDIATE CASING (1)	29.8	Jun 25, 2002	Jun 27, 2002	170.3	7.09	884.0	884.0
PRODUCTION HOLE (1)	34.8	Jun 27, 2002	Jun 28, 2002	205.0	8.54	887.0	1,385.0
PRODUCTION CSG/LNR(1)	38.0	Jun 28, 2002	Jun 30, 2002	243.0	10.13	1,385.0	1,385.0
COMPLETION/TIE-BACK	69.5	Jun 30, 2002	Jul 03, 2002	312.5	13.02	1,385.0	1,385.0
PRODUCTION TEST	66.0	Jul 03, 2002	Jul 05, 2002	378.5	15.77	1,385.0	1,385.0
SUSPENSION	18.5	Jul 05, 2002	Jul 06, 2002	397.0	16.54	1,385.0	1,385.0
RIG-DOWN/MOVE OUT	10.5	Jul 06, 2002	Jul 06, 2002	407.5	16.98	1,385.0	1,385.0

WBM Data		COST TODAY : \$0	CUM. WB MUD COST: \$199,454	CUM. WBM+OBM COST: \$199,454
Type :	KCL Brine	VISCOCITY (sec/qt) :	API FLUID LOSS (cm3/30min) :	CL :
FROM :		PV (cps):	FILTER CAKE (32nds inch) :	K+C*1000 :
TIME :		YP (lb100sq.ft):	HTHPFL (cm3/30min) :	HARD/Ca :
WEIGHT (sg) :	1.08	GEL10s/10m/100m (lb100sq.ft) :	HTHP CAKE (32nds inch) :	MBT (ppb) :
TEMP (C) :		Fann 3/6/100 :		PM :
				PF :
				SOLIDS (%vol) :
				H2O (%vol) :
				OIL (%vol) :
				SAND :
				PH :
				PHPA (ppb) :

BHA #4	Length (ft) :			D.C. (1) ANN. VELOCITY (mpm):	0
WT BLW JAR(k-lbs):	STRING WT(k-lbs) :	TRQE MAX (ft-lbs):		D.C. (2) ANN VELOCITY (mpm):	0
BHA WT(k-lbs) :	PICK UP WT(k-lbs) :	TRQE ON (ft-lbs):		H.W.D.P. ANN VELOCITY (mpm):	0
	SLK OFF WT(k-lbs) :	TRQE OFF (ft-lbs):		D.P. ANN VELOCITY (mpm) :	0
BHA DESCRIPTION :					
TOOL DESCRIPTION		HRS	SERIAL #	COMMENT	

Survey		MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/30m)	N/S (m)	E/W (m)	TOOL TYPE
Last Tool Type :	MWD	1,281	701	90.98	232.	232.7	756.1	1.49	-469.3	-592.8	MWD
Magnetic Declination :	0.00	1,310	701	89.67	232.	232.7	785.0	1.36	-486.8	-615.8	MWD
Survey method :	Min Curvature	1,339	701	89.82	233.	233.4	814.0	0.71	-504.2	-639.0	MWD
		1,368	701	90.46	234.	234.0	843.0	0.93	-521.5	-662.4	MWD

Bulk Stocks On Rig				
STOCK TYPE	START	USED	REC'D	STOCK
Barite	SX	336		336
Bentonite	SX	1546		1546
G-neat	SX	2166		2166
G+35% SiFI	SX			0
G+BFS+12.25% SiFI	SX			0
Pot Water	M3	98	25	98
Drill Water	M3	476	18	458
Heli-fuel	ltr	5440	235	5205
Base Oil	M3			0
Rig Fuel	M3	359	8	351
Brine	M3	0		0

Pump Data										
Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National 1	6.00	0	97	0	0	30	240	1180	9.3
2	National 1	6.00	47	97	93	680	40	310	1180	9.3
3	National 1	6.00	0	97	0	0	50	385	1180	9.3

Casing						
DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	872.4	700.0		1.40 1.40	Mixed and pumped 378 sx og G cement, 78 bbls of slurry @ 1.89 sg. Displaced and bumped plug pressue tested casing to 3000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
Well head	2.35	8.575	47.0	L-80	New Vam
X/over (NK3SB Pin x New Vam Box)	3.17	8.575	47.0	L-80	Vam x NK3
Pup Joint	3.07	8.575	47.0	L-80	NK3SB
Pup Joint	3.07	8.575	47.0	L-80	NK3SB
9 5/8" Casing	746.58	8.575	47.0	L-80	NK3SB
Float Joint	13.17	8.575	47.0	L-80	NK3SB
Intermediate Joint	12.04	8.575	47.0	L-80	NK3SB
Shoe Joint	12.54	8.575	47.0	L-80	NK3SB

Personnel : on Site =92			
JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	R.King	OMV	7
Drilling Supervisor (Nigh	G.Othen	Service Company	28
Testing Supervisor	M.Mulliner	Diamond Offshore	49
Completion Supervisor	L.Taylor	Catering	8
Sub Sea Engineer	W.Bates		
Drilling Engineer	P.Zehetleitner		

Safety, Inspections and Drills Summary

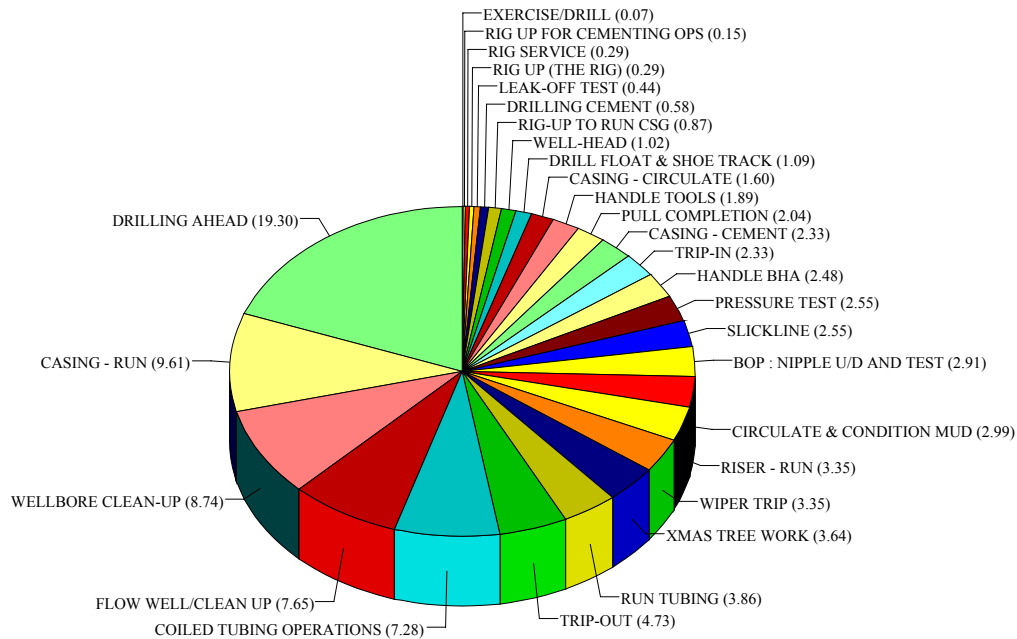
Shakers, Volumes and Losses Data				ENGINEER Graeme Garrick	
SHAKER 1	4x120	VOLUME AVAILABLE (bbl) = 591 ACTIVE MIXING HOLE 405 SLUG RESERVE 186 HEAVY	LOSSES (bbl) = 0 DOWNHOLE SURF. + EQUIP 0.00 DUMPED	COMMENTS	
SHAKER 2	4x120				
SHAKER 3	4x84				
SHAKER 4	4x84				
SHAKER 5					

Anchors		A 1	320	A 2	320	A 3	210	A 4	336	A 5	135
		A 6	180	A 7	175	A 8	175				

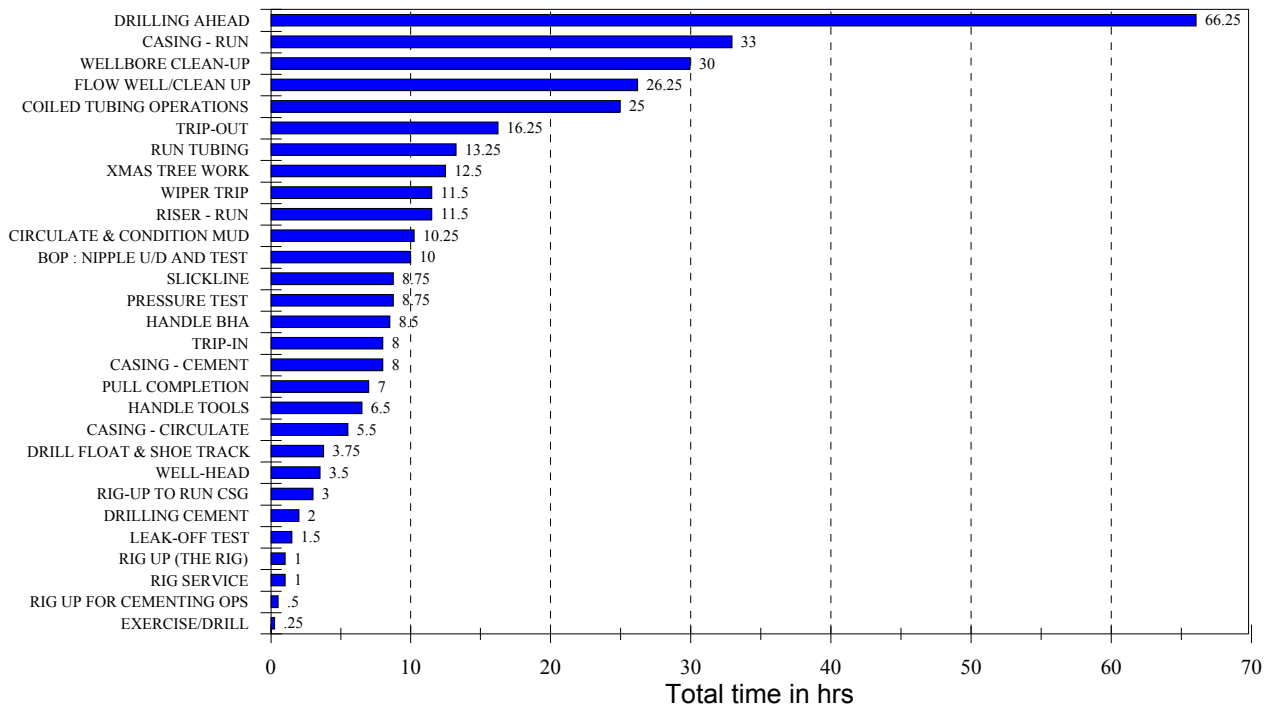
Workboats								Weather		Rig / Sea Data		
	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)				
Pacific Sentinel	Geelon	272	1190	545	210		300		VISIBILITY(nm)	10	RIS.TENS (klbs)	232
Pacific Conqueror	Rig	367		610	190				WIND SP. (kts)	60.0	VDL (mt)	1,683
									WIND DIR (deg)	270	WAVES (m)	1.8
									PRES.(mbars)	1011	SWELL (m)	4.3
									AIR TEMP (C)	15.0		

Total move time (hrs)	25.00	Total prod. time since spud (hrs) :	343.25
Total time on well excluding move (hrs)	382.50	Total troub. time since spud (hrs)	39.25
		% Trouble time	10.26

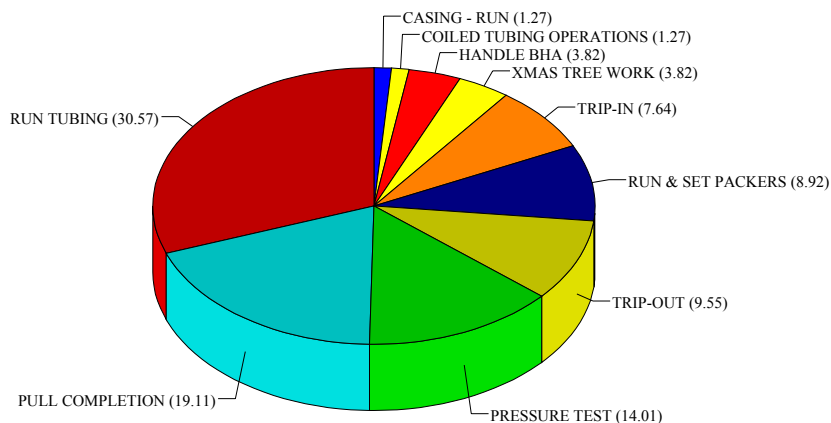
Productive Time by Op.



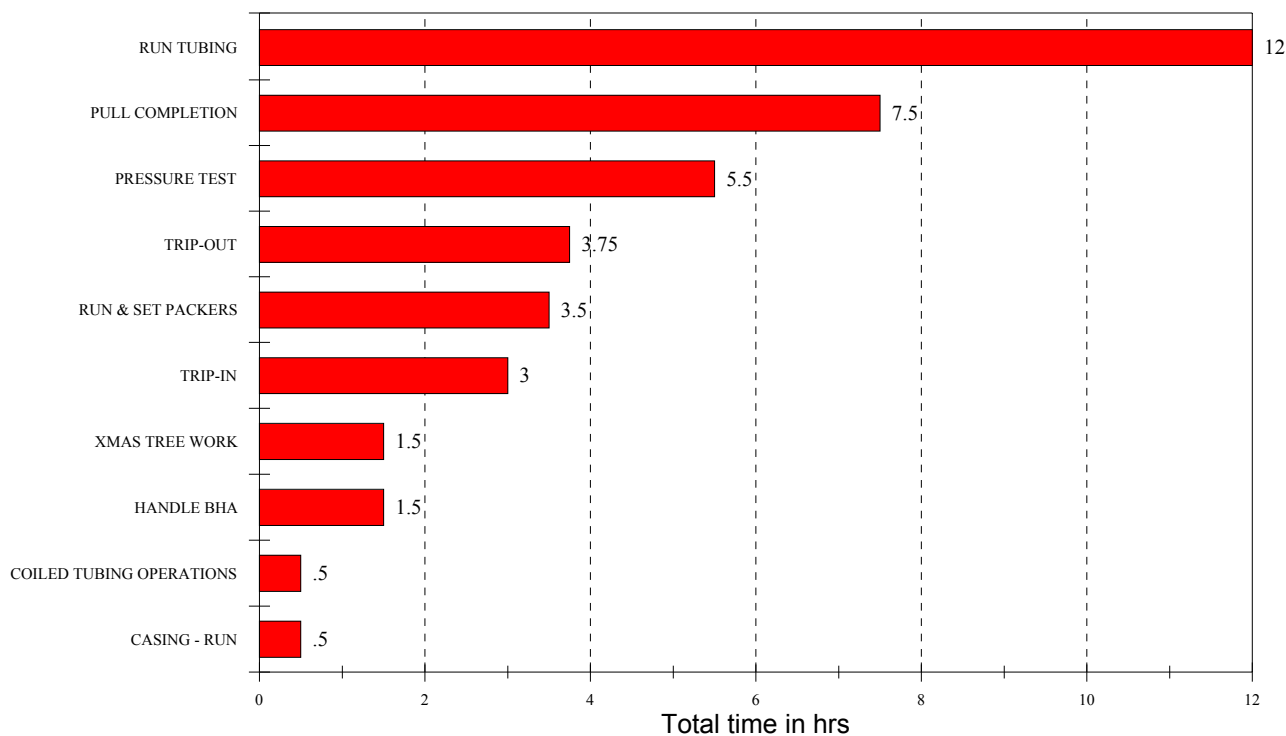
Productive time by Operation



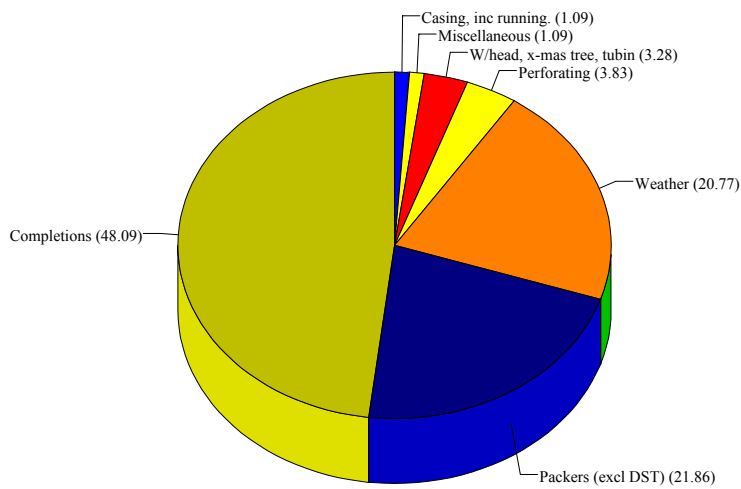
Trouble Time by Op.



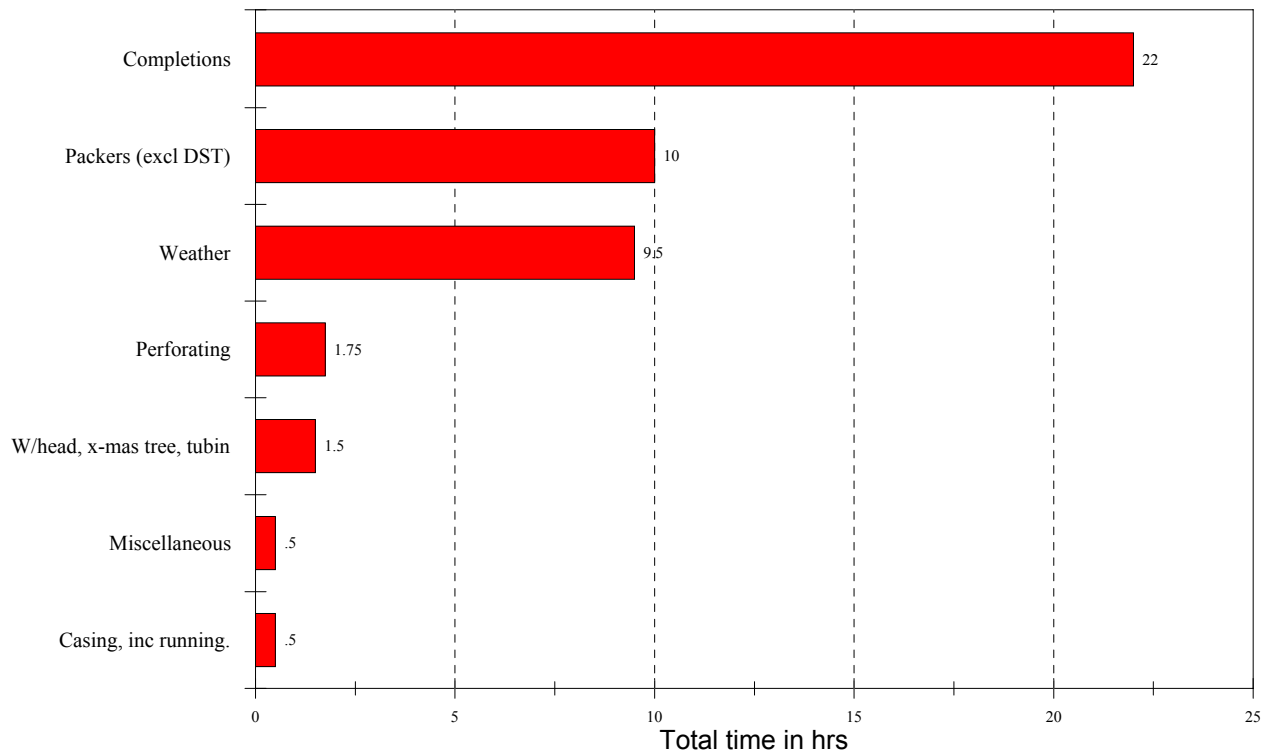
NPT by Operation



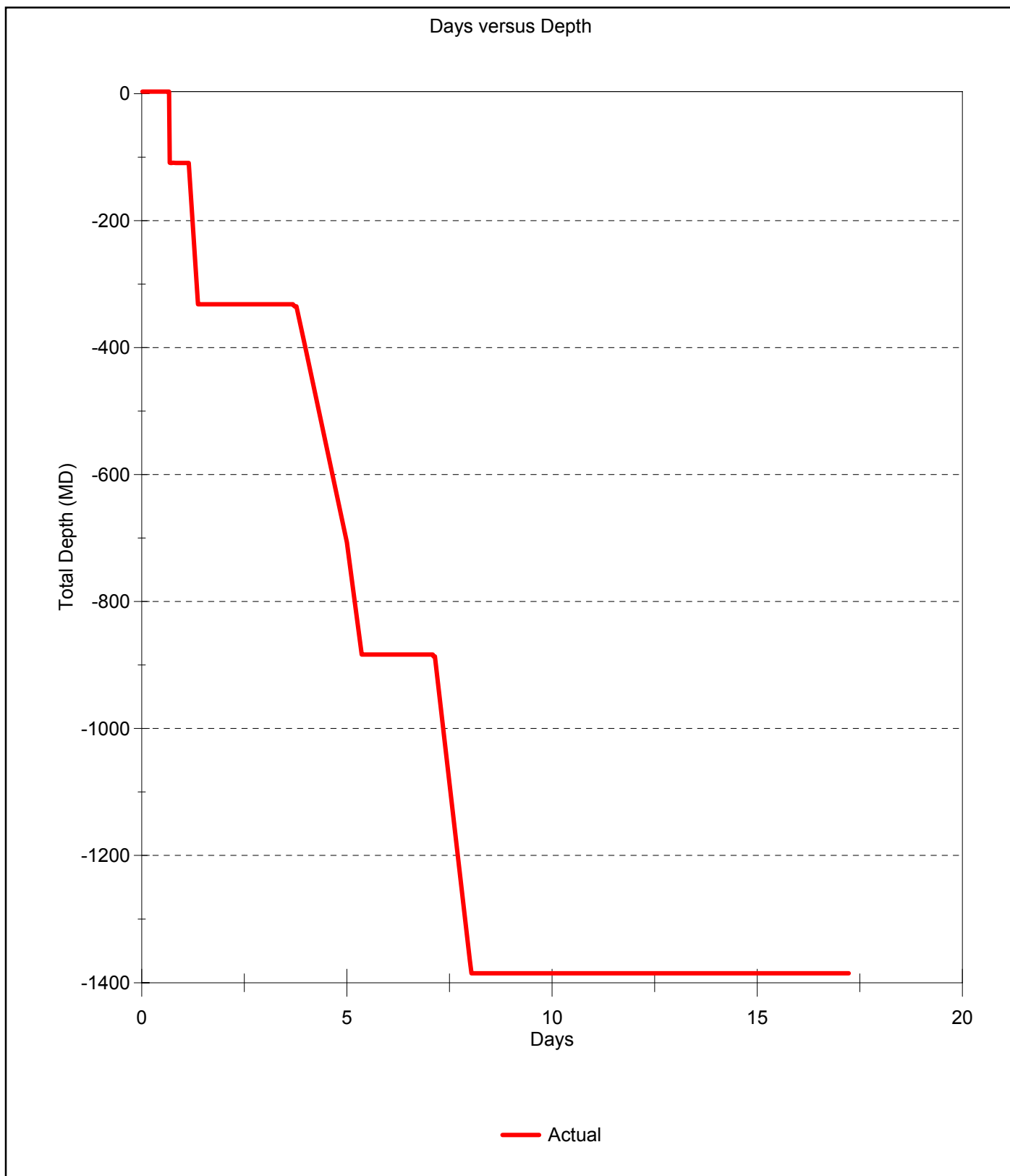
Root Cause Analysis



Root Cause Analysis



DEPTH @ 24:00 = 1,385.0m after 17.00 days since spud



DATE Jul 07, 2002

FROM : R. King /G. Othen
TO : C. Allport / S. Crocker

Patricia-2

VIC/L21

Well Data		DEPTH (mBRT)	1,385.0	CUR. HOLE SIZE (")	8.50	AFE COST \$	11,852,851
COUNTRY	AUSTRALIA	TVD (mBRT)	701.2	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
FIELD	GIPPSLAND SUB-BASIN	PROGRESS (m)	0.0	SHOE TVD (mBRT)	700	DAILY COST :	\$327,852.00
DRILL CO.	DIAMOND OFFSHORE	DAYS ON WELL	18.00	FIT (sg)	1.40	CUM COST :	\$9,632,906.00
RIG	OCEAN BOUNTY	DAYS +/- CURVE	-2.50	LOT (sg)	0.00		
RT ABOVE SL (m)	25.0	CURRENT OP @ 0600 ROV Repairing Clump weight system.					
WATER DEPTH (m) LAT	52.5	PLANNED OP. ROV work on Sub sea tree / Install corosion cap / Pull posts and start Anchors.					
RT TO SEABED (m)	77.5						

Summary of period 0000 to 2400 hrs

Waited on weather. Pulled BOP. Commenced ROV work on sub sea tree.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jul 07, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
RMO	U		WOW	00:00	11:00	11.00	1,385	Continue to wait on weather. (Jumped ROV closed TCT needle valve & fitted protector cap)
RMO	P		BOP	11:00	12:00	1.00	1,385	Rigged down diverter in preparation to unlatch.
RMO	P		BOP	12:00	13:45	1.75	1,385	Held JSA. Laid out diverter picked up landing joint.
RMO	P		BOP	13:45	17:30	3.75	1,385	Unlatched and pulled BOP. (Moved Rig 45ft) Removed Ruckers & choke / kill lines. Laid out landing joint.
RMO	P		BOP	17:30	19:15	1.75	1,385	BOP on beams, split move and secured.
RMO	P		BOP	19:15	20:30	1.25	1,385	Laid out joints of riser & rigged down BOP equipment.
SUS	P		XT	20:30	21:30	1.00	1,385	Rigged up and ran umbilical with deployment frame. Made up Tree cap to drill pipe. (ROV removed PCA protector, positioned ROV and waited for deployment frame)
SUS	P		XT	21:30	24:00	2.50	1,385	Ran Tree cap to 65m stand by for ROV. (Landed Deployment frame, removed umbilical from frame & stabbed into hydraulic free plate. Picked up electrical lead and untangle cable from hydraulic line)

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jul 08, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
SUS	TP	MSC	XT	00:00	04:00	4.00	1,385	ROV clump weight cable parted. Recovered ROV to surface for additional weight. ROV dived to recover clump weight @ 02:15 hrs. Whilst recovering clump weight the ROV became entangled in the electrical cable attempted to work free unsuccessful. (P. Conqueror & P. Sentinel decks clear @ 03:00 Hrs)
SUS	TP		XT	04:00	04:30	.50	1,385	Pulled Tree cap to surface. ROV observed electrical cable to be severed.
SUS	TP		XT	04:30	06:00	1.50	1,385	Attempted to recover ROV to surface to repair clump weight system. ROV entangled in deployment frame, put ROV back on bottom and attempted to release hydraulic stab.

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG MOVE	12.0	Jun 20, 2002	Jun 20, 2002	12.0	0.50	0.0	0.0
RIG-UP/PRESPUD	2.5	Jun 20, 2002	Jun 20, 2002	14.5	0.60	0.0	0.0
CONDUCTOR HOLE	4.0	Jun 20, 2002	Jun 20, 2002	18.5	0.77	0.0	112.0
CONDUCTORS	5.5	Jun 20, 2002	Jun 20, 2002	24.0	1.00	112.0	112.0
SURFACE HOLE	15.0	Jun 21, 2002	Jun 21, 2002	39.0	1.63	112.0	334.0
SURFACE CASING	41.0	Jun 21, 2002	Jun 23, 2002	80.0	3.33	334.0	334.0
INTERMEDIATE HOLE (1)	60.5	Jun 23, 2002	Jun 25, 2002	140.5	5.85	334.0	884.0
INTERMEDIATE CASING (1)	29.8	Jun 25, 2002	Jun 27, 2002	170.3	7.09	884.0	884.0
PRODUCTION HOLE (1)	34.8	Jun 27, 2002	Jun 28, 2002	205.0	8.54	887.0	1,385.0
PRODUCTION CSG/LNR(1)	38.0	Jun 28, 2002	Jun 30, 2002	243.0	10.13	1,385.0	1,385.0
COMPLETION/TIE-BACK	69.5	Jun 30, 2002	Jul 03, 2002	312.5	13.02	1,385.0	1,385.0
PRODUCTION TEST	66.0	Jul 03, 2002	Jul 05, 2002	378.5	15.77	1,385.0	1,385.0
SUSPENSION	22.0	Jul 05, 2002	Jul 07, 2002	400.5	16.69	1,385.0	1,385.0
RIG-DOWN/MOVE OUT	31.0	Jul 06, 2002	Jul 07, 2002	431.5	17.98	1,385.0	1,385.0

WBM Data		COST TODAY : \$0	CUM. WB MUD COST: \$199,454	CUM. WBM+OBM COST: \$199,454
Type :	KCL Brine	VISCOCITY (sec/qt) :	API FLUID LOSS (cm3/30min) :	CL :
FROM :		PV (cps):	FILTER CAKE (32nds inch) :	K+C*1000 :
TIME :		YP (lb100sq.ft):	HTHPFL (cm3/30min) :	HARD/Ca :
WEIGHT (sg) :	1.08	GEL10s/10m/100m (lb100sq.ft) :	HTHP CAKE (32nds inch) :	MBT (ppb) :
TEMP (C) :		Fann 3/6/100 :		PM :
				PF :
				SOLIDS (%vol) :
				H2O (%vol) :
				OIL (%vol) :
				SAND :
				PH :
				PHPA (ppb) :

BHA #4	Length (ft) :			D.C. (1) ANN. VELOCITY (mpm):	0
WT BLW JAR(k-lbs):	STRING WT(k-lbs) :	TRQE MAX (ft-lbs):		D.C. (2) ANN VELOCITY (mpm):	0
BHA WT(k-lbs) :	PICK UP WT(k-lbs) :	TRQE ON (ft-lbs):		H.W.D.P. ANN VELOCITY (mpm):	0
	SLK OFF WT(k-lbs) :	TRQE OFF (ft-lbs):		D.P. ANN VELOCITY (mpm) :	0
BHA DESCRIPTION :					
TOOL DESCRIPTION		HRS	SERIAL #	COMMENT	

Survey		MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/30m)	N/S (m)	E/W (m)	TOOL TYPE
Last Tool Type :	MWD	1,281	701	90.98	232.	232.7	756.1	1.49	-469.3	-592.8	MWD
Magnetic Declination :	0.00	1,310	701	89.67	232.	232.7	785.0	1.36	-486.8	-615.8	MWD
Survey method :	Min Curvature	1,339	701	89.82	233.	233.4	814.0	0.71	-504.2	-639.0	MWD
		1,368	701	90.46	234.	234.0	843.0	0.93	-521.5	-662.4	MWD

Bulk Stocks On Rig				
STOCK TYPE	START	USED	REC'D	STOCK
Barite	SX	336		336
Bentonite	SX	1546		1546
G-neat	SX	2166		2166
G+35% SiFI	SX			0
G+BFS+12.25% SiFI	SX			0
Pot Water	M3	98	26	98
Drill Water	M3	458		458
Heli-fuel	ltr	5205	463	4742
Base Oil	M3			0
Rig Fuel	M3	351	15	336
Brine	M3	0		0

Pump Data										
Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National 1	6.00	0	97	0	0	30	240	1180	9.3
2	National 1	6.00	47	97	93	680	40	310	1180	9.3
3	National 1	6.00	0	97	0	0	50	385	1180	9.3

Casing						
DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	872.4	700.0		1.40 1.40	Mixed and pumped 378 sx og G cement, 78 bbls of slurry @ 1.89 sg. Displaced and bumped plug pressue tested casing to 3000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
Well head	2.35	8.575	47.0	L-80	New Vam
X/over (NK3SB Pin x New Vam Box)	3.17	8.575	47.0	L-80	Vam x NK3
Pup Joint	3.07	8.575	47.0	L-80	NK3SB
Pup Joint	3.07	8.575	47.0	L-80	NK3SB
9 5/8" Casing	746.58	8.575	47.0	L-80	NK3SB
Float Joint	13.17	8.575	47.0	L-80	NK3SB
Intermediate Joint	12.04	8.575	47.0	L-80	NK3SB
Shoe Joint	12.54	8.575	47.0	L-80	NK3SB

Personnel : on Site =80			
JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	R.King	OMV	5
Drilling Supervisor (Nigh)	G.Othen	Service Company	18
Testing Supervisor		Diamond Offshore	49
Completion Supervisor		Catering	8
Sub Sea Engineer	W.Bates		
Drilling Engineer	P.Zehetleitner		

Safety, Inspections and Drills Summary

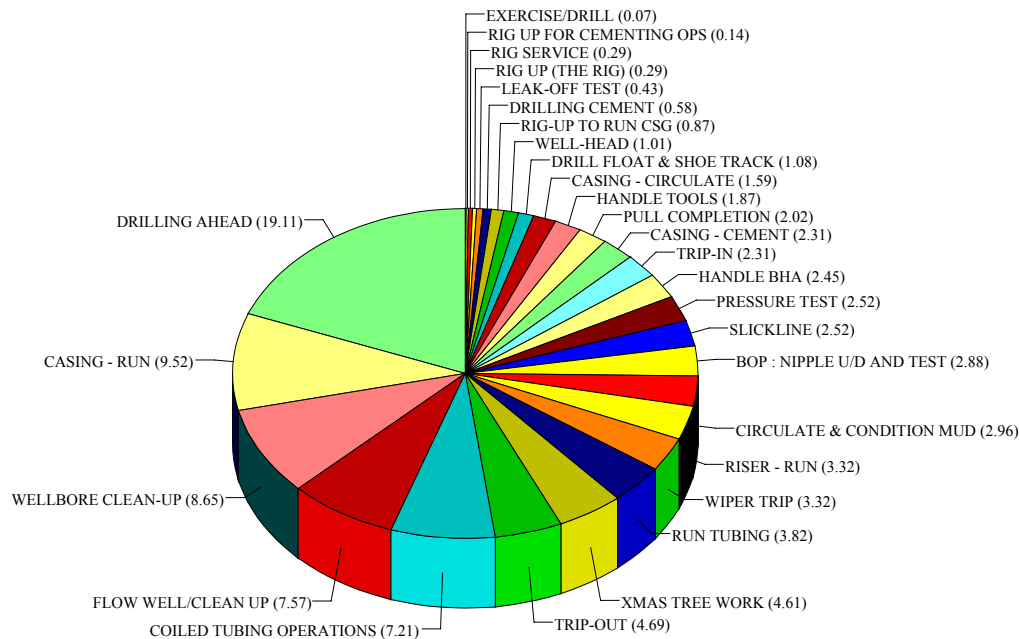
Shakers, Volumes and Losses Data				ENGINEER Graeme Garrick	
SHAKER 1	4x120	VOLUME AVAILABLE (bbl) = 591		LOSSES (bbl) = 0	COMMENTS
SHAKER 2	4x120	ACTIVE MIXING		DOWNHOLE	
SHAKER 3	4x84	HOLE	405 SLUG	SURF. + EQUIP 0.00	
SHAKER 4	4x84	RESERVE	186 HEAVY	DUMPED	
SHAKER 5					

Anchors		A 1	335	A 2	245	A 3	185	A 4	300	A 5	115
		A 6	205	A 7	175	A 8	175				

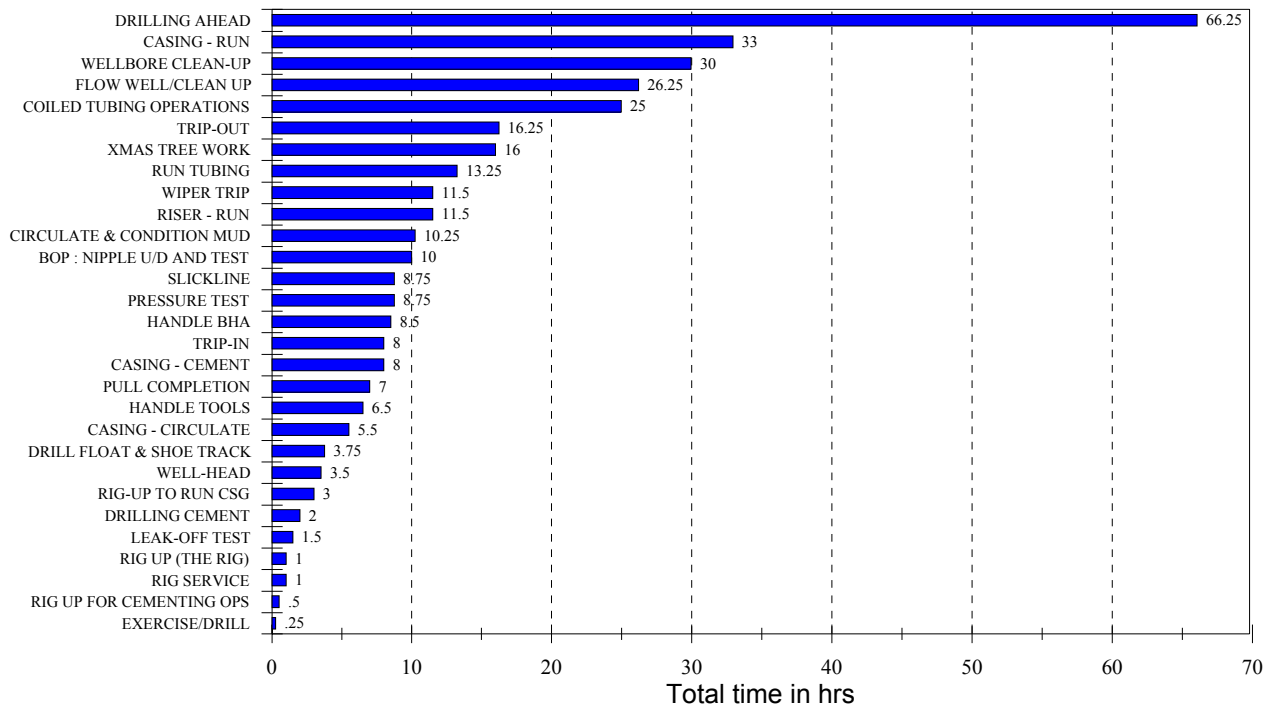
Workboats								Weather		Rig / Sea Data		
	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)				
Pacific Sentinel	Rig	379	1190	525	235		300		VISIBILITY(nm)	10	RIS.TENS (klbs)	0
Pacific Conqueror	Rig	359		570	185				WIND SP. (kts)	50.0	VDL (mt)	1,735
									WIND DIR (deg)	270	WAVES (m)	1.8
									PRES.(mbars)	1020	SWELL (m)	4.3
									AIR TEMP (C)	15.0		

Total move time (hrs)	45.50	Total prod. time since spud (hrs) :	346.75
Total time on well excluding move (hrs)	386.00	Total troub. time since spud (hrs)	39.25
		% Trouble time	10.17

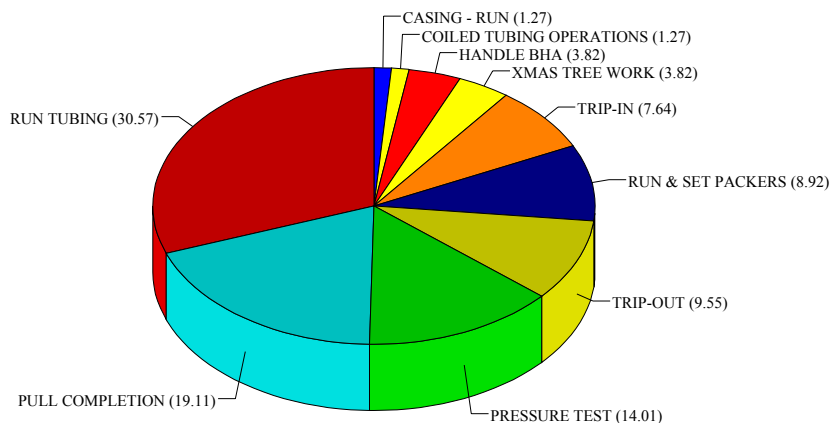
Productive Time by Op.



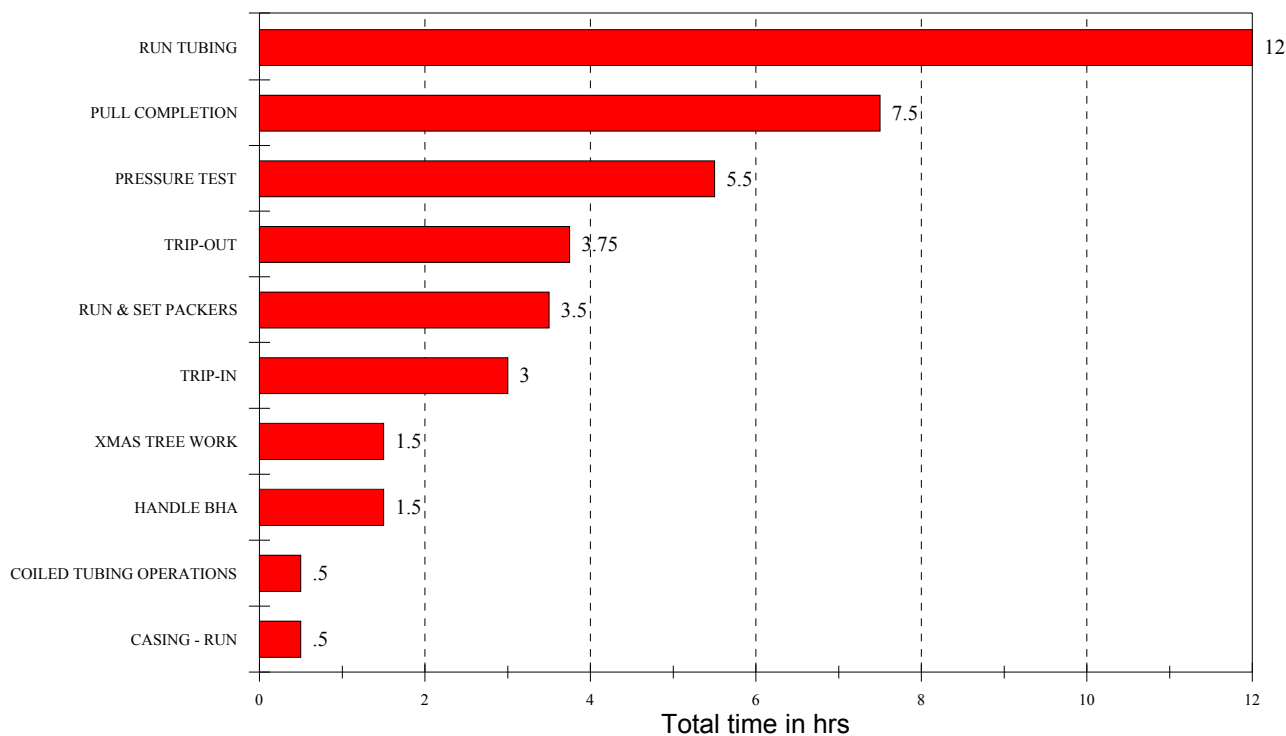
Productive time by Operation



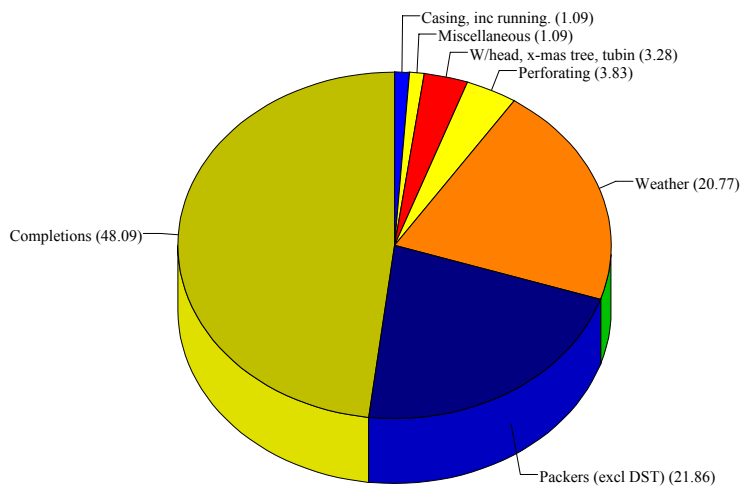
Trouble Time by Op.



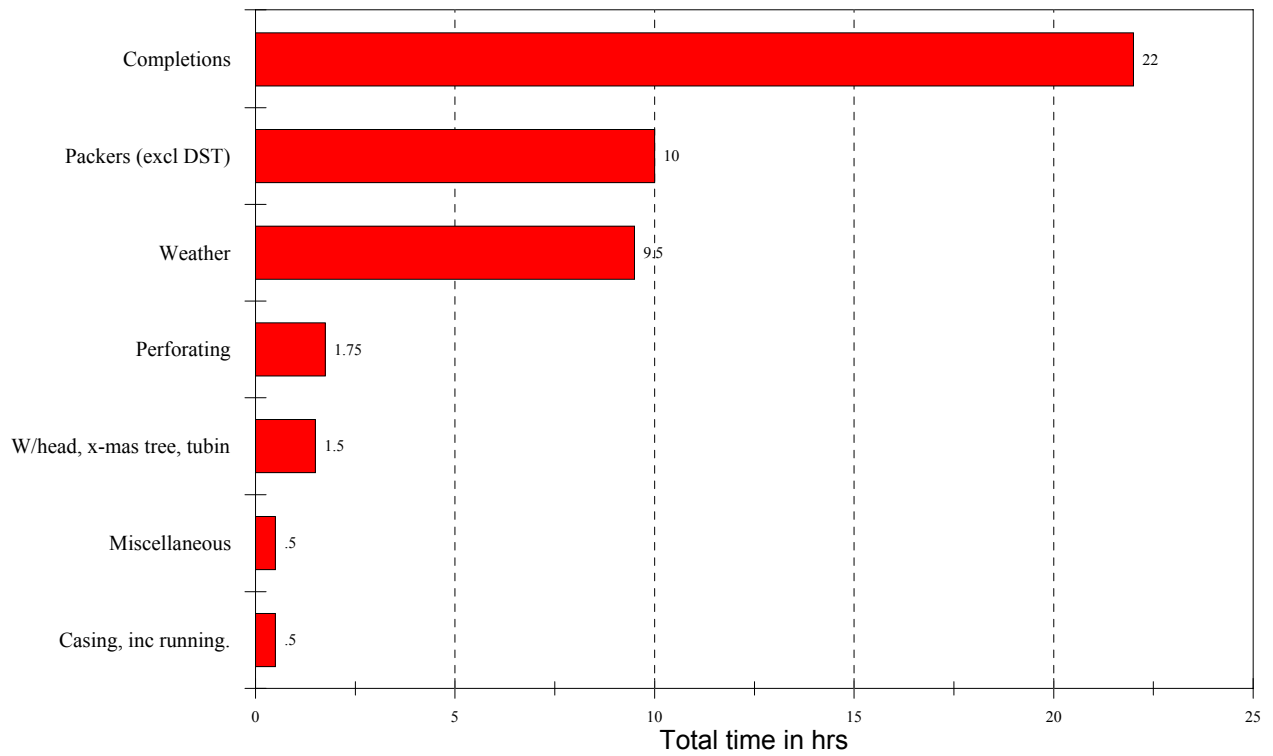
NPT by Operation



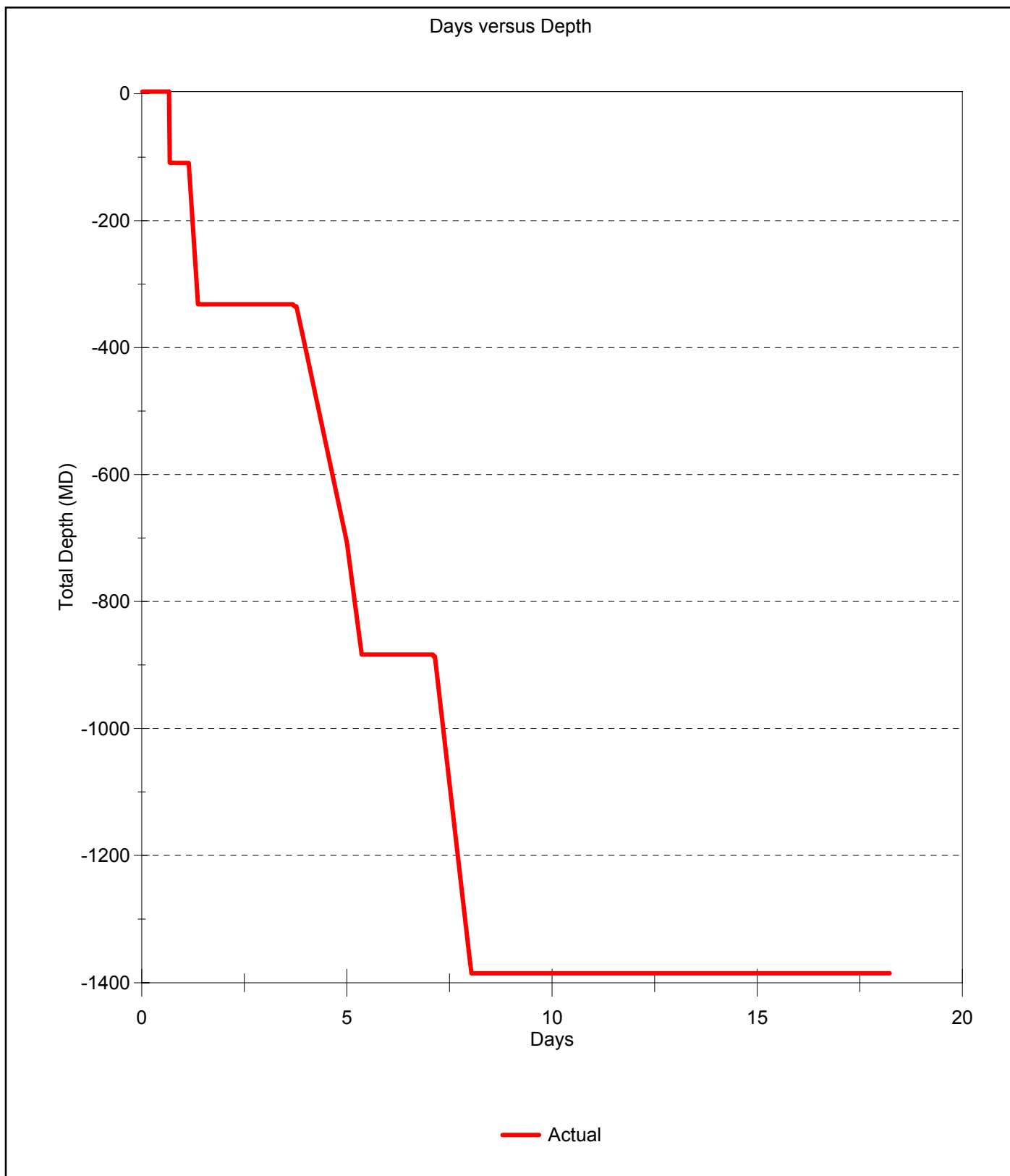
Root Cause Analysis



Root Cause Analysis



DEPTH @ 24:00 = 1,385.0m after 18.00 days since spud



DATE Jul 08, 2002

FROM : R. King /G. Othen
TO : C. Allport / S. Crocker

Patricia-2

VIC/L21

Well Data		DEPTH (mBRT)	1,385.0	CUR. HOLE SIZE (")	8.50	AFE COST \$	11,852,851
COUNTRY	AUSTRALIA	TVD (mBRT)	701.2	CASING OD (")	9.5/8 "	AFE BASIS :	C&S
FIELD	GIPPSLAND SUB-BASIN	PROGRESS (m)	0.0	SHOE TVD (mBRT)	700	DAILY COST :	\$365,007.00
DRILL CO.	DIAMOND OFFSHORE	DAYS ON WELL	19.00	FIT (sg)	1.40	CUM COST :	\$9,997,913.00
RIG	OCEAN BOUNTY	DAYS +/- CURVE	-2.90	LOT (sg)	0.00		
RT ABOVE SL (m)	25.0	CURRENT OP @ 0600 En Route to Sole-2.					
WATER DEPTH (m) LAT	52.5	PLANNED OP. Anchor up on Sole-2					
RT TO SEABED (m)	77.5						

Summary of period 0000 to 2400 hrs

ROV work on sub sea tree, Installed Corosion cap & recovered posts. Retrieve anchors.

ACTIVITY FOR PERIOD 0000 HRS TO 2400 HRS ON Jul 08, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
SUS	TP	MSC	XT	00:00	04:00	4.00	1,385	ROV clump weight cable parted. Recovered ROV to surface for additional weight. ROV dived to recover clump weight @ 02:15 hrs. Whilst recovering clump weight the ROV became entangled in the electrical cable attempted to work free unsuccessful. (P.Conqueror & P. Sentinel decks clear @ 03:00 Hrs)
SUS	TP		XT	04:00	04:30	.50	1,385	Pulled Tree cap to surface. ROV observed electrical cable to be severed from ROV.
SUS	TP		XT	04:30	07:30	3.00	1,385	Attempted to recover ROV to surface to repair clump weight system. ROV entangled in deployment frame. Put ROV back on bottom and attempted to engage and release hydraulic stab. Successful.
SUS	TP		XT	07:30	10:30	3.00	1,385	Recovered ROV & repaired Clump weight system. Pulled deployment frame.
SUS	P		XT	10:30	11:30	1.00	1,385	Ran & Installed Corrosion cap. Pulled sub sea tree posts. (ROV set electronic SCM caps)
RM	P		AH	11:30	24:00	12.50	1,385	Anchor Handling. Start # 4@ 11:39hrs / Start # 8@ 11:45hrs. Finished # 8@ 13:16hrs / Finished # 4@ 13:38hrs / Start # 1@ 13:26hrs / Start # 5@ 13:51hrs. Finished # 1@14:50hrs / Finished # 5@15:34hrs. Start# 7@15:45hrs Finished # 7@ 17:50hrs. (Sentinel connected to tow bridle @ 16:34hrs) Start # 2@ 18:10hrs Finished # 2@ 20:12hrs / Start # 3@ 20:33hrs. Rig commenced heaving in on # 6@ 21:04hrs. Finished # 3@ 22:32hrs. (Conqueror connected to tow bridle @ 23:52hrs) Senintel reports broken wire to scotsman Repaired wire.

ACTIVITY FOR PERIOD 0000 HRS TO 0600 HRS ON Jul 09, 2002

PHSE	CLS	RC	OP	FROM	TO	HRS	DEPTH	ACTIVITY DESCRIPTION
RM	P		AH	00:00	00:45	.75	1,385	Sentinel takes up static tow @ 00:20hrs. Rig continued heaving #6 Finished @ 00:45hrs (Rig on tow @ 00:45hrs)

Phase Analysis	Phase hrs	Start On	Finish On	Cum Hrs	Cum Days	Min Depth	Max Depth
RIG-UP/PRESPUD	2.5	Jun 20, 2002	Jun 20, 2002	2.5	0.10	0.0	0.0
CONDUCTOR HOLE	4.0	Jun 20, 2002	Jun 20, 2002	6.5	0.27	0.0	112.0
CONDUCTORS	5.5	Jun 20, 2002	Jun 20, 2002	12.0	0.50	112.0	112.0
RIG MOVE	24.5	Jun 20, 2002	Jul 08, 2002	36.5	1.52	0.0	1,385.0
SURFACE HOLE	15.0	Jun 21, 2002	Jun 21, 2002	51.5	2.15	112.0	334.0
SURFACE CASING	41.0	Jun 21, 2002	Jun 23, 2002	92.5	3.85	334.0	334.0
INTERMEDIATE HOLE (1)	60.5	Jun 23, 2002	Jun 25, 2002	153.0	6.38	334.0	884.0
INTERMEDIATE CASING (1)	29.8	Jun 25, 2002	Jun 27, 2002	182.8	7.61	884.0	884.0
PRODUCTION HOLE (1)	34.8	Jun 27, 2002	Jun 28, 2002	217.5	9.06	887.0	1,385.0
PRODUCTION CSG/LNR(1)	38.0	Jun 28, 2002	Jun 30, 2002	255.5	10.65	1,385.0	1,385.0
COMPLETION/TIE-BACK	69.5	Jun 30, 2002	Jul 03, 2002	325.0	13.54	1,385.0	1,385.0
PRODUCTION TEST	66.0	Jul 03, 2002	Jul 05, 2002	391.0	16.29	1,385.0	1,385.0
SUSPENSION	33.5	Jul 05, 2002	Jul 08, 2002	424.5	17.69	1,385.0	1,385.0
RIG-DOWN/MOVE OUT	31.0	Jul 06, 2002	Jul 07, 2002	455.5	18.98	1,385.0	1,385.0

WBM Data		COST TODAY : \$0	CUM. WB MUD COST: \$199,454	CUM. WBM+OBM COST: \$199,454	
Type :	KCL Brine	VISCOCITY (sec/qt) :	API FLUID LOSS (cm3/30min) :	Cl :	SOLIDS (%vol) :
FROM :		PV (cps):	FILTER CAKE (32nds inch) :	K+C*1000 :	H2O (%vol) :
TIME :		YP (lb100sq.ft):	HTHPFL (cm3/30min) :	HARD/Ca :	OIL (%vol) :
WEIGHT (sg) :	1.08	GEL 10s/10m/100m (lb100sq.ft) :	HTHP CAKE (32nds inch) :	MBT (ppb) :	SAND :
TEMP (C) :		Fann 3/6/100 :		PM :	PH :
				PF :	PHPA (ppb) :

Bit Data for Bit # 4 IADC #			Wear											
			I	O1	D	L	B	G	O2	R				
SIZE (") :			NOZZLES				Drilled over the last 24 hrs				Calculated over the bit run			
MANUFACTURER :	Reed	AVE WOB (k-lbs) :	X	METERAGE (m) :			0	CUM.METERAGE (m)			501			
TYPE :		AVE RPM :	X	ON BOTTOM HRS :			.0	CUM. ON BOT. HRS :			13.8			
SERIAL # :		FLOW (gpm) :	X	IADC DRILL. HRS :			.0	CUM.IADC DRILL HRS:			22.0			
DEPTH IN (m RT) :		PUMP PRESS. (psi):	X	TOTAL REVS :			0	CUM.TOT. REVS :			0			
DEPTH OUT (m RT) :		HSI (hp/sqi) :	0.000	X	ROP (m/hr):				ROP (m/hr):			22.8		

BHA # 4 Length (ft) :				D.C. (1) ANN. VELOCITY (mpm):	0
WT BLW JAR(k-lbs):	STRING WT(k-lbs) :	TRQE MAX (ft-lbs):		D.C. (2) ANN VELOCITY (mpm):	0
BHA WT(k-lbs) :	PICK UP WT(k-lbs) :	TRQE ON (ft-lbs):		H.W.D.P. ANN VELOCITY (mpm):	0
	SLK OFF WT(k-lbs) :	TRQE OFF (ft-lbs):		D.P. ANN VELOCITY (mpm) :	0
BHA DESCRIPTION :					
TOOL DESCRIPTION		HRS	SERIAL #	COMMENT	

Survey		MD (mBRT)	TVD (mBRT)	INCL DEG	AZ (deg)	CORR. AZ (deg)	'V' SECT (m)	DOGLEG (deg/30m)	N/S (m)	E/W (m)	TOOL TYPE
Last Tool Type :	MWD	1,281	701	90.98	232.	232.7	756.1	1.49	-469.3	-592.8	MWD
Magnetic Declination :	0.00	1,310	701	89.67	232.	232.7	785.0	1.36	-486.8	-615.8	MWD
Survey method :	Min Curvature	1,339	701	89.82	233.	233.4	814.0	0.71	-504.2	-639.0	MWD
		1,368	701	90.46	234.	234.0	843.0	0.93	-521.5	-662.4	MWD

Bulk Stocks On Rig				
STOCK TYPE	START	USED	REC'D	STOCK
Barite	SX	336		336
Bentonite	SX	1546		1546
G-neat	SX	2166		2166
G+35% SiFI	SX			0
G+BFS+12.25% SiFI	SX			0
Pot Water	M3	98		98
Drill Water	M3	458	14	444
Heli-fuel	ltr	4742	636	4106
Base Oil	M3			0
Rig Fuel	M3	336	11	325
Brine	M3	0		0

Pump Data										
Pump Data - last 24 hrs							Slow Pump Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	DEPTH (mBRT)	MW (ppg)
1	National 1	6.00	0	97	0	0	30	240	1180	9.3
2	National 1	6.00	47	97	93	680	40	310	1180	9.3
3	National 1	6.00	0	97	0	0	50	385	1180	9.3

Casing						
DIAM.	CSG OD	SHOE MD (plan/Actual)	SHOE TVD (plan/Actual)	LOT (pl/Act)	FIT (pl/Act)	COMMENT
9.5/8 "	9.625	872.4	700.0		1.40 1.40	Mixed and pumped 378 sx og G cement, 78 bbls of slurry @ 1.89 sg. Displaced and bumped plug pressure tested casing to 3000 psi.

TYPE	LNGTH (m)	CSG OD (")	WT lbs/ft	GRD	THREAD
Well head	2.35	8.575	47.0	L-80	New Vam
X/over (NK3SB Pin x New Vam Box)	3.17	8.575	47.0	L-80	Vam x NK3
Pup Joint	3.07	8.575	47.0	L-80	NK3SB
Pup Joint	3.07	8.575	47.0	L-80	NK3SB
9 5/8" Casing	746.58	8.575	47.0	L-80	NK3SB
Float Joint	13.17	8.575	47.0	L-80	NK3SB
Intermediate Joint	12.04	8.575	47.0	L-80	NK3SB
Shoe Joint	12.54	8.575	47.0	L-80	NK3SB

Personnel : on Site =83

JOB TITLE	NAME	CO. NAME	#
Drilling Supervisor (snr)	R.King	OMV	3
Drilling Supervisor (Nigh)	G.Othen	Service Company	20
Testing Supervisor		Diamond Offshore	52
Completion Supervisor		Catering	8
Drilling Engineer	P.Zehetleitner		

Safety, Inspections and Drills Summary

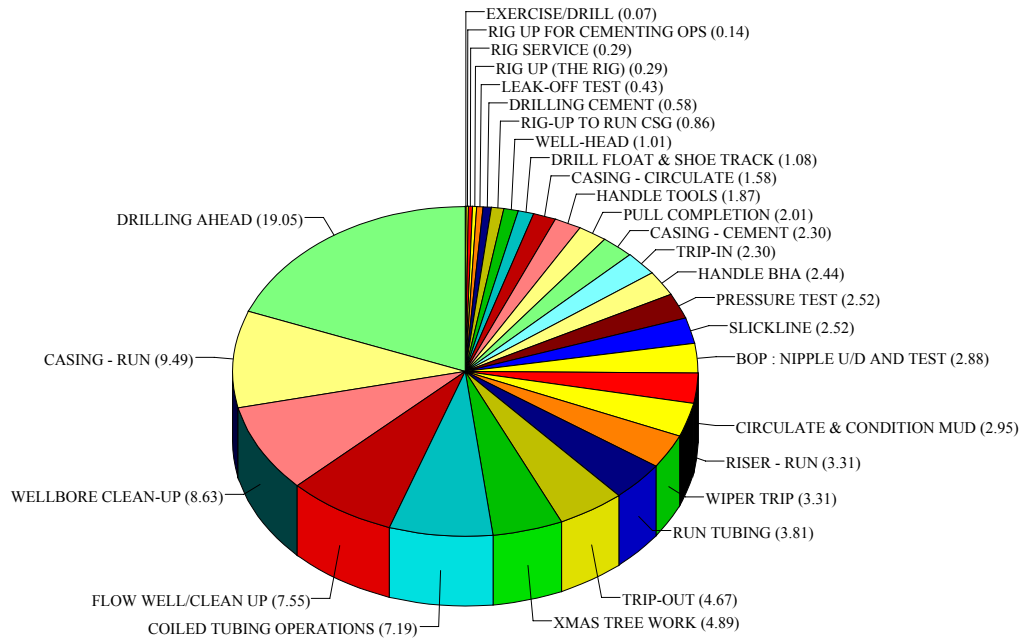
Shakers, Volumes and Losses Data				ENGINEER Graeme Garrick	
SHAKER 1 4x120	VOLUME AVAILABLE (bbl) = 591 ACTIVE MIXING HOLE 405 SLUG RESERVE 186 HEAVY	LOSSES (bbl) = 0 DOWNHOLE SURF. + EQUIP 0.00 DUMPED	COMMENTS		
SHAKER 2 4x120					
SHAKER 3 4x84					
SHAKER 4 4x84					
SHAKER 5					

Anchors									
A 1	0	A 2	0	A 3	0	A 4	0	A 5	0
A 6	0	A 7	0	A 8	0				

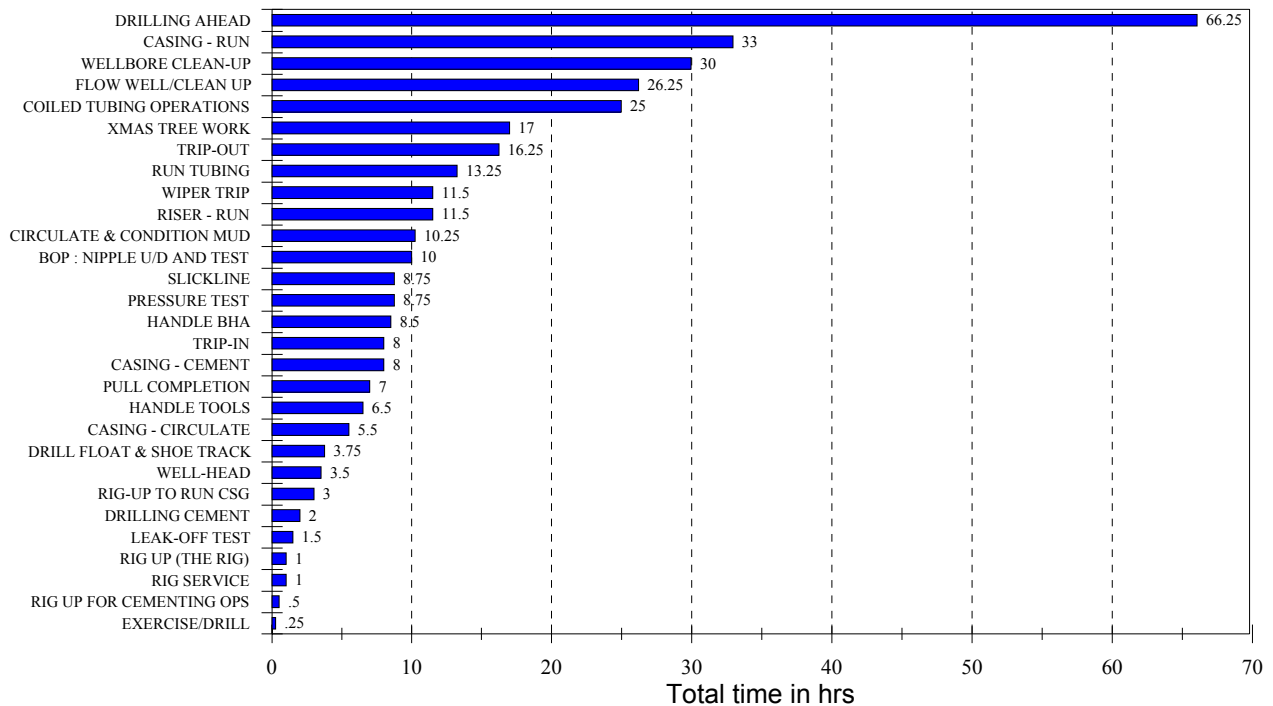
Workboats								Weather		Rig / Sea Data		
	Location	Fuel (M3)	Barite (sx)	D/wtr (M3)	P/wtr (M3)	Cmt (sx)	Bent (sx)	Brine (M3)	VISIBILITY(nm)	12	RIS.TENS (klbs)	0
Pacific Sentinel	Rig	364	1190	525	230		300		WIND SP. (kts)	35.0	VDL (mt)	1,845
Pacific Conqueror	Rig	339		570	180				WIND DIR (deg)	300	WAVES (m)	1.5
									PRES.(mbars)	1013	SWELL (m)	2.1
									AIR TEMP (C)	15.0		

Total move time (hrs)	58.00	Total prod. time since spud (hrs) :	347.75
Total time on well excluding move (hrs)	397.50	Total troub. time since spud (hrs)	49.75
		% Trouble time	12.52

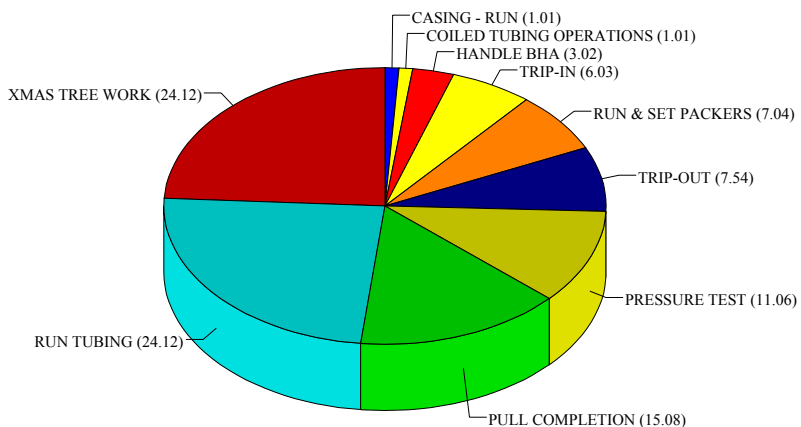
Productive Time by Op.



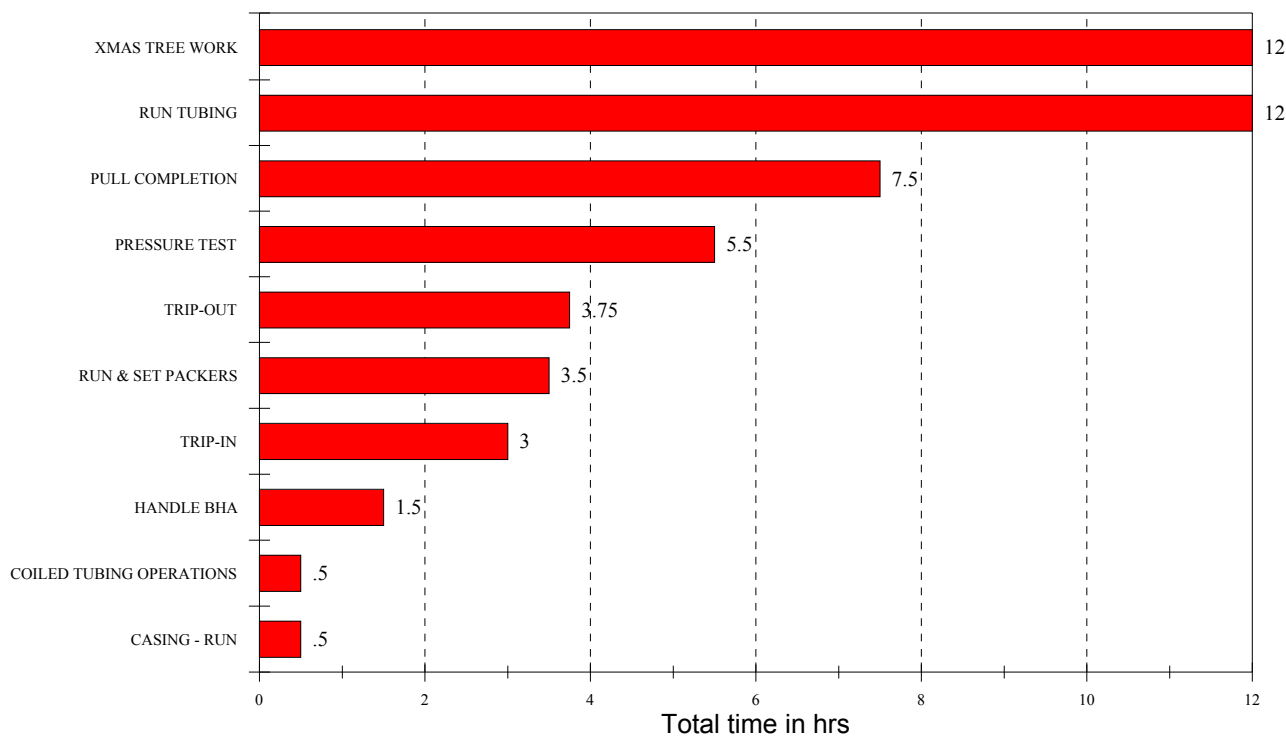
Productive time by Operation



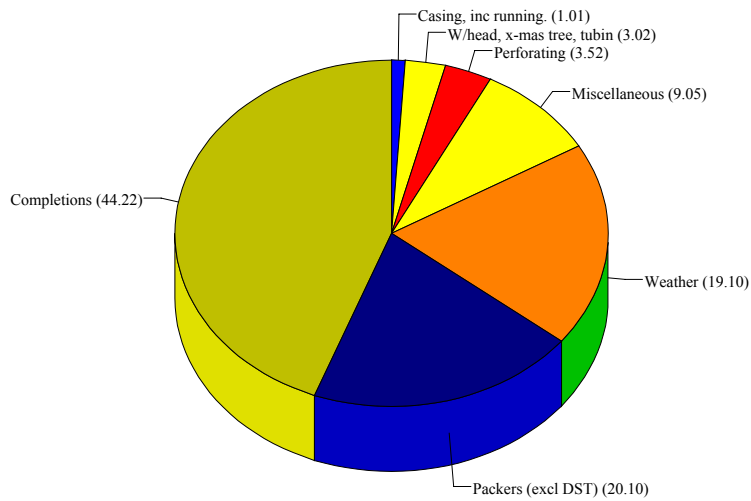
Trouble Time by Op.



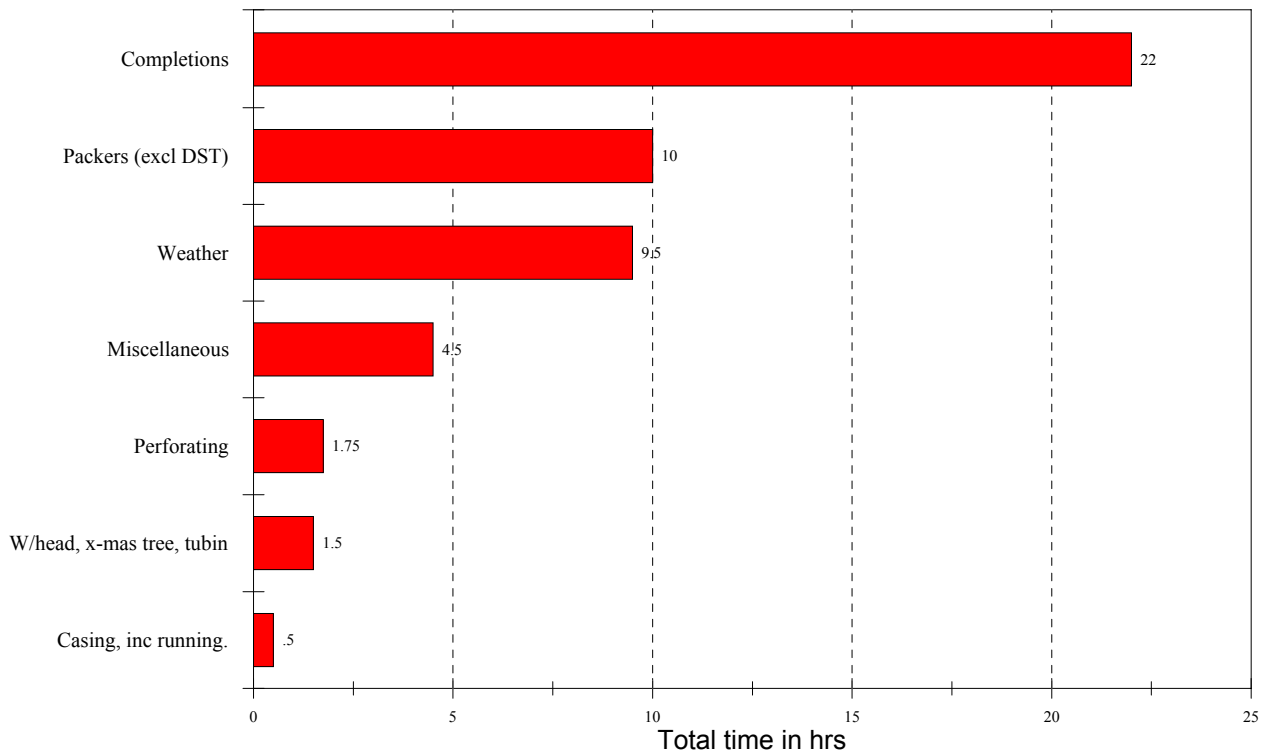
NPT by Operation



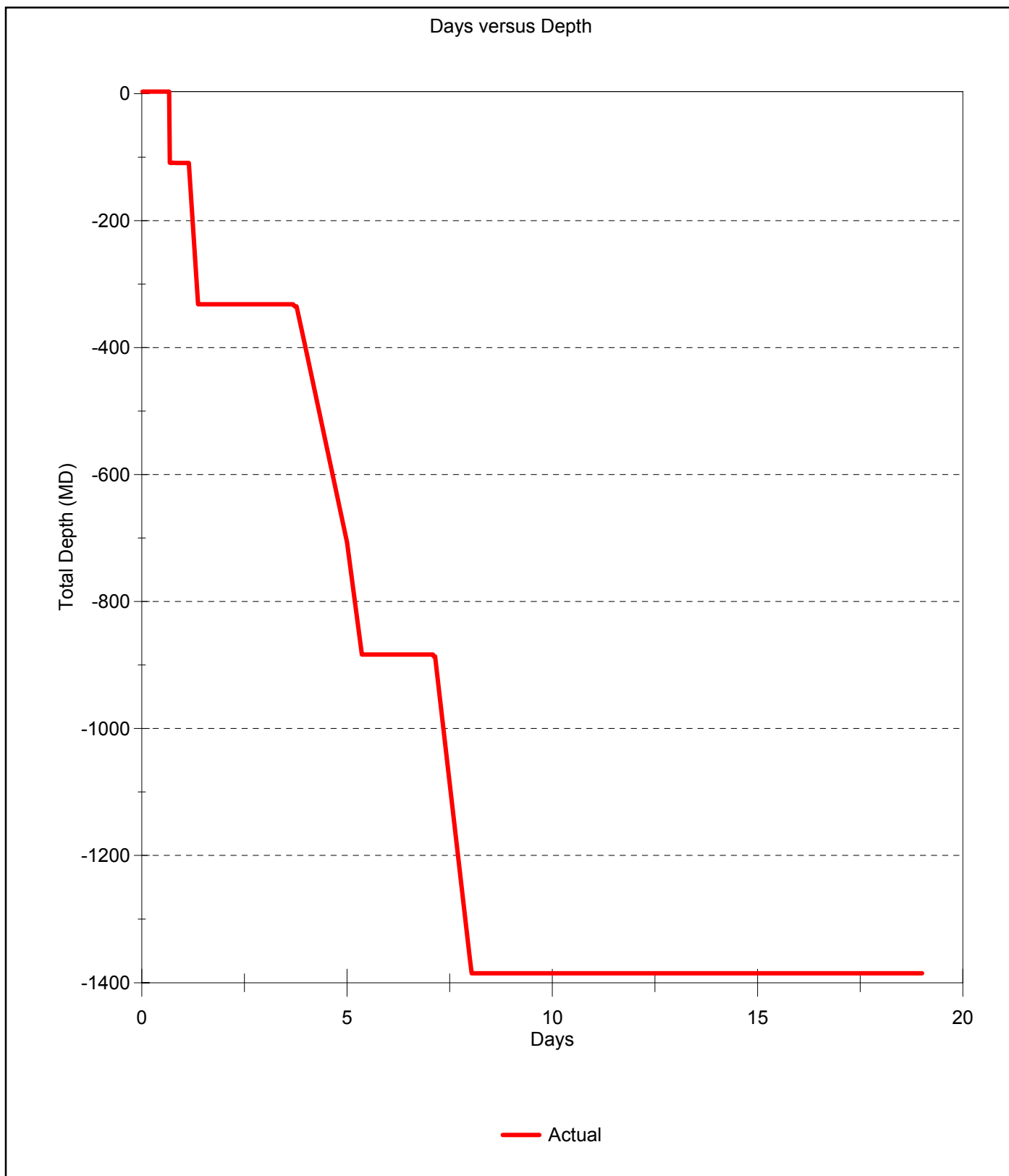
Root Cause Analysis



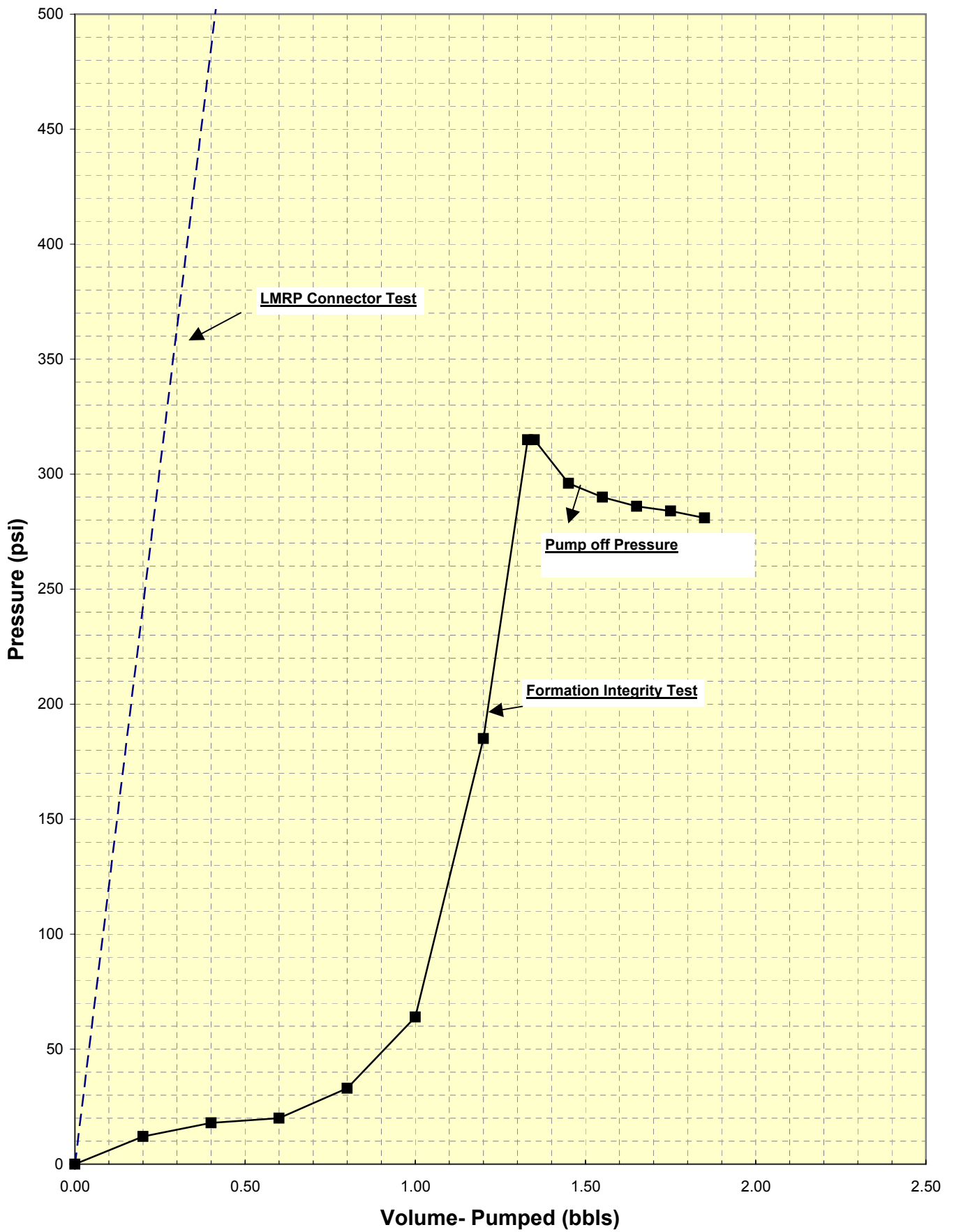
Root Cause Analysis



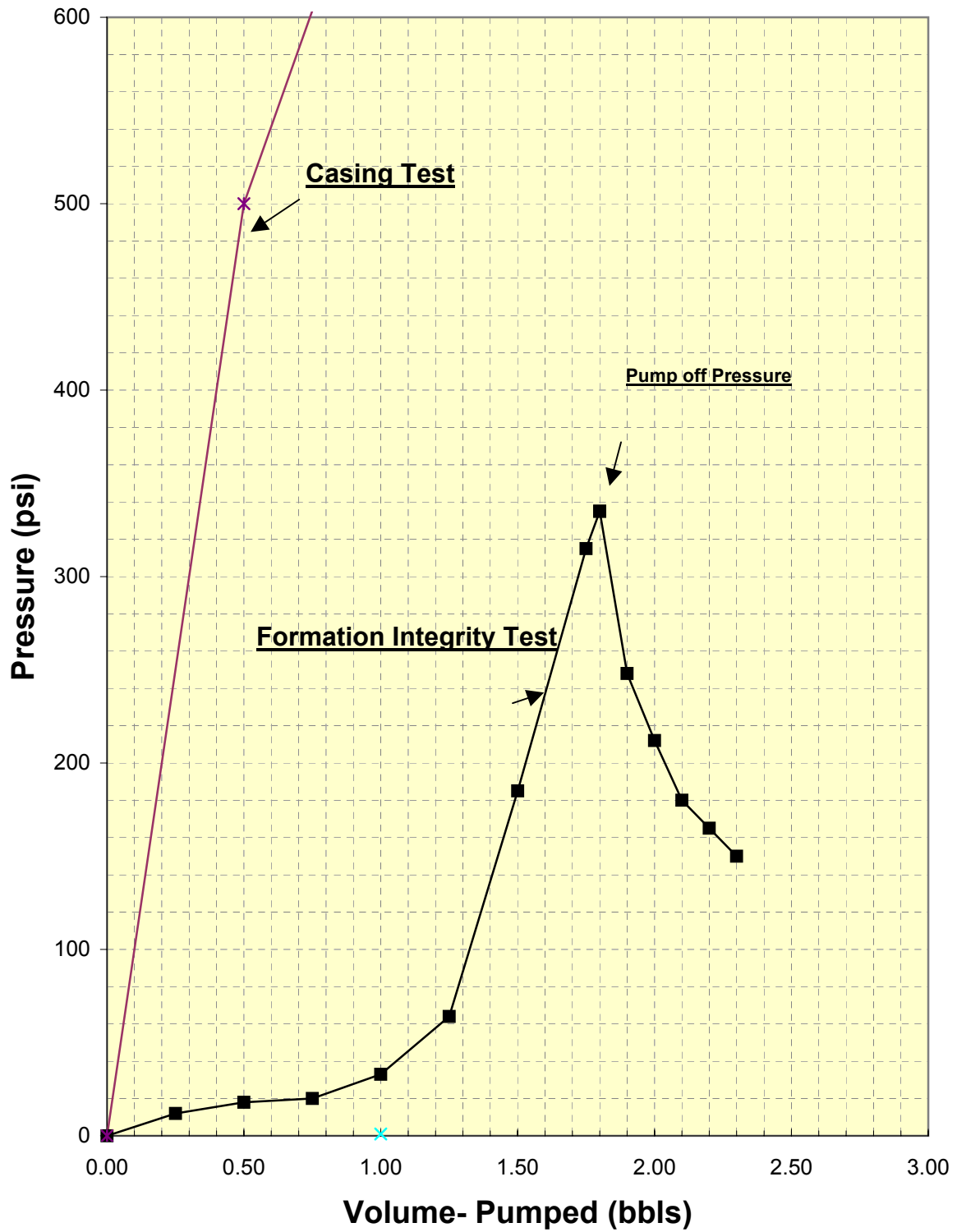
DEPTH @ 24:00 = 1,385.0m after 19.00 days since spud



Formation Integrity Test 13-3/8" Casing



Patricia - 2 Formation Integrity Test 9 5/8" Casing



OMV Australia Reps
 OMV Australia Witness
 Date 25 / 26 June

 Guy Howard & Gavin Othen
 26-Jun-2002

 Drilling Contractor & Rig
 Cement Company & Service Rep.

 Ocean Bounty
 Halliburton

Basic Data		Mud Data		Hole & Prev Casing Data	
Casing Size	9 5/8"	Type	KCL / PHPA / Glycol	Casing Size	13 3/8" in
Hole Size	12 1/4"	Weight	9.3 ppg	Hole OD	17 1/2" in
Hole Calipered	no	Preflush		M. Depth	334 m
Calliper Tool used	n/a	Type	Super Flush 102	Casing ID	12.415 in
Est BHT degree.C	n/a	Weight	9.5 ppg	Shoe Depth	327.1 m

Cement Volumes		Displacement		Pumping Pressures	
Annular Vol.	55 bbl	Calc. Disp	189 bbl	Max. Pumping Press.	780 psi
% Excess	L:0%	Cmt Unit Disp	180 bbl	Sheared Plug with	1800 psi
Shoe Track	6 bbl	Rig Displacement	0 bbl	Bumped Plug with	530 psi
Rat Hole	5.7 bbl	Actual Strokes	0 str	Tested Casing with	3000 psi
Total Volume	77.6 bbl	Liner size / bbl/stroke	6.5" / 0.1193		

Cement Data

Lead Slurry		Tail Slurry		Displacement Data	
Cement Type		Cement	G	Mix Rate Lead /Tail	1.40 bpm
Slurry Volume	bbl	Slurry Vol.	78 bbl	Displacement Rate	10.00 bpm
Mix Water	bbl	Mix Water	Seawater	41.5 bbl	
Liq. Additive		Liq. Additive			
Econ		NF-1	0.25gal/10bbl	Plug Bumped (Y/N)	y
NF-5		Halad-413	20gal/10bbl	Disp. Over Calc.	0.00 bbl
Dry Additive		Dry Additive CaCl ₂	1% BWOW	Final Circ Press	530 psi
Plan Wt		Plan Wt (ppg)	15.8 ppg	Yield	1.16 cuft/sk
Actual Wt		Actual Wt (ppg)	15.8 ppg	Total # sx cement used	378 sx
Yield				Disp. by Rig/Cmt Unit	Cmt Unit

Spacers		Centralizers		Scratchers	
Ahead		Make	-	Weatherford	-
Type/Volume	Seawater 20.00 bbl	Type	-	Non Weld	-
Behind		Number	-	14	-
Type/Volume	Seawater displ bbl	Spacing	-	2 per shoe track Jt	-
		Comments	-	c/w stop collars	-
				Comments	None Run

Casing Data

Total Depth - From RT (metres)	884.00 m	Water Depth (m)	77.50 m
Off Bottom (Rat Hole)	12.00 m	RT-Sea Level	25.00 m
Casing Shoe depth (mRT)	872.00 m	Wellhead Stick-up above Mudline	2.35 m
		RT to Wellhead Datum	75.15 m

Casing String Components

1x 9 5/8"	casing hanger pup joint, 47# L-80, New Vam pin down	2.35 m
1x 9 5/8"	XO NK3SB pin x New Vam box	3.17 m
1x 9 5/8"	Pup Joint NK3SB	3.07 m
1x 9 5/8"	Pup Joint NK3SB	3.07 m
58x 9 5/8"	47#, L-80 jts, NK3SB	746.58 m
1x 9 5/8"	Float Jt. (Baker locked), NK3SB Box	13.17 m
1x 9 5/8"	Inter Jt (Baker locked), New Vam	12.04 m
1x 9 5/8"	Shoe jt.w/ float shoe (Baker locked), New Vam	12.54 m
Total string length:		795.99 m
Landing String:		76.37 m

Casing Notes

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Casing and Cementing Timetable

Operation	Start Time	End Time	Initial Press	Final Press	Vol (bbl)	Comments
Rig up and run casing	20:30hrs 25/6/02	04:00hrs 26/6/02				
Circulation	4:00	4:30			300	
RU and pump seawater	4:47				10	
Test Cement lines	4:52			3000		
Pre-Flush	4:56	5:30			60	
Spacer	5:30	5:32			10	
Drop Bottom Plug launching ball.	5:32	5:37		1200	1.5	Sheared w/ 1200 psi after pumping 1.5 bbls.
Mix and Pump Slurry	5:45	5:58	470	610	78	pumped 15.8 ppg slurry w/ 5.5 bpm.
Drop Top Plug launching dart	6:02			1800	7	Sheared w/ 1800 psi after pumping 7 bbls.
Displacement	6:12	6:33	532	530	180	w/ rate from 10 to 5 bpm
Bump Plug / Test Casing	6:33	6:41	530	3000		bumped plug w/ 500 psi over last displacement pressure. Held pressure for 5min. Pressured up to 3000 psi for casing test. Held pressure for 5min.
Bleed Pres/Check Float Equip.	6:41					ok.

Detailed Casing and Cementing Report

Started to run casing at 20:30hrs on the 25/06/02. Landed string at 03:30hrs on the 26/6/02.
Circulated 300 bbls (appx. 1.5 times the casing volume) at 10bpm.
RU Halliburton, pumped 10 bbls of seawater ahead and pressure tested lines to 3000 psi. Pumped 60 bbls of Super Flush 102 followed by 10 bbls of seawater. Dropped bottom plug launching ball and sheared plug with 1,200 psi. Mixed and pumped 70bbls of 15.8 ppg cement slurry at 5.5 bpm, released the top plug launching dart and displaced with seawater at 10bpm.. Top plug sheared with 1800psi after pumping 7 bbls. Displaced casing with 180 bbls Displaced casing with 180 bbls seawater. Bumped the plugs at 5bpm and pressured up to 500 psi over the final displacement pressure (530 psi). Held pressure for 5 min and continued to pressure up to 3,000 psi and held pressure for 5 min to test casings. Bled off and checked the floats. Ok. Released the running tool and recovered the landing string.



OMV Australia





OMV Australia



Well Name : PATRICIA - 2		Print Date Fri 28/06/2002		
Wellsite Geologist(s) : Peter Boothby Ross Tolliday				
Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
334 to 340	100	ARGILLACEOUS CALCILUTITE: white to very light grey, light bluish grey, very soft to soft, amorphous, sticky in part, 10-15% fossil fragments and forams (coral debris, bryozoa, spicules, shell fragments, forams), 5-10% siliceous clay content, trace to 5% calcisiltite, trace fine dark green		
340 to 345	100	ARGILLACEOUS CALCILUTITE: as above		
345 to 350	70	ARGILLACEOUS CALCILUTITE: white to very light grey, light bluish grey, light olive grey, very soft to soft, amorphous, sticky in part, 10-15% fossil fragments and forams (coral debris, bryozoa, spicules, shell fragments, forams), 5-10% siliceous clay content, 10 to 15% calcisiltite, grades to	64	0
	30	ARGILLACEOUS CALCISILTITE: white to very light grey, light bluish grey, light olive grey, very soft to soft, amorphous, 10-15% fossil fragments and forams (coral debris, bryozoa, spicules, shell fragments, forams), 15-25% siliceous clay content, 5 to 10% micrite, trace to 5% very fine to fine calcite grains, grades to Argillaceous Calcilutite in part, trace fine dark green glauconite.		
350 to 360	50	ARGILLACEOUS CALCILUTITE: as above.	60	0
	50	ARGILLACEOUS CALCISILTITE: dominantly as above.		
360 to 365	60	ARGILLACEOUS CALCILUTITE: as above		
	40	ARGILLACEOUS CALCISILTITE: as above		
365 to 370	60	ARGILLACEOUS CALCILUTITE: as above	66	0
	40	ARGILLACEOUS CALCISILTITE: as above		
370 to 380	60	ARGILLACEOUS CALCISILTITE: white to very light grey, light bluish grey, light olive grey, very soft to soft, amorphous, 5-10% fossil fragments and forams (coral debris, bryozoa, spicules, shell fragments, forams), 15-25% siliceous clay content, 5 to 15% micrite, trace to 5% very fine to fine calcite grains, grades to Argillaceous Calcilutite in part, trace fine dark green glauconite.	70	0
	40	ARGILLACEOUS CALCILUTITE: as above		
380 to 390	50	ARGILLACEOUS CALCILUTITE: white to very light grey, light bluish grey, light olive grey, very soft to soft, amorphous, sticky in part, 10-15% fossil fragments and forams (coral debris, bryozoa, spicules, shell fragments, forams), 15-25% siliceous clay content, 10 to 15% calcisilt, grades to	55	0
	50	ARGILLACEOUS CALCISILTITE: white to very light grey, light bluish grey, light olive grey, very soft to soft, amorphous, 5-10% fossil fragments and forams (coral debris, bryozoa, spicules, shell fragments, forams), 15-30% siliceous clay content, 5 to 15% micrite, trace to 5% very fine to fine calcite grains, grades to Argillaceous Calcilutite in part, trace fine dark green glauconite.		
390 to 400	70	ARGILLACEOUS CALCILUTITE: as above, 5-15% siliceous clay, grades to Calcilutite.	84	0
	30	ARGILLACEOUS CALCISILTITE: as above		

Well Name : PATRICIA - 2		Print Date Fri 28/06/2002		
Wellsite Geologist(s) : Peter Boothby Ross Tolliday				
Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
400 to 405	50	CALCILUTITE : white to very light grey, light olive grey, very soft to soft, amorphous, sticky in part, 10-15% fossil fragments and forams (coral debris, bryozoa, spicules, shell fragments, forams), 5-10% siliceous clay content, 10 to 15% calcisilt, grades to Argillaceous Calcisiltite in part, trace fine dark green glauconite.	84	0
	50	ARGILLACEOUS CALCISILTITE : white to very light grey, light bluish grey, light olive grey, very soft to soft, amorphous, 5-10% fossil fragments and forams (coral debris, bryozoa, spicules, shell fragments, forams), 15-30% siliceous clay content, 5 to 15% micrite, trace to 5% very fine to fine calcite grains, grades to Argillaceous Calcilutite in part, trace fine dark green glauconite.		
405 to 410	70	ARGILLACEOUS CALCISILTITE : as above	68	0
	30	CALCILUTITE : as above, hard in parts.		
410 to 415	60	ARGILLACEOUS CALCISILTITE : very light to light grey, light bluish grey, light olive grey, range grey, soft to firm, amorphous, 5-15% fossil fragments and forams (coral debris, bryozoa, spicules, shell fragments, forams), 15-30% siliceous clay content, 5 to 15% micrite, 5-10% very fine to fine clear to orange calcite grains, trace fine dark green glauconite,	70	0
	40	CALCILUTITE : white to very light grey, light olive grey, soft to firm, amorphous, 5-10% fossil fragments and forams (coral debris, bryozoa, spicules, shell fragments, forams), 5-15% siliceous clay content, 10 to 15% calcisilt, trace fine dark green glauconite, grades to Argillaceous Calcisiltite in part.		
415 to 420	60	ARGILLACEOUS CALCISILTITE : as above, increasing fossil content	70	0
	40	CALCILUTITE : as above, recrystallised and hard in parts		
420 to 425	60	ARGILLACEOUS CALCISILTITE : very light to light grey, light olive grey, orange grey, soft to firm, amorphous, 5-15% fossil fragments and forams (coral debris, bryozoa, spicules, shell fragments, forams), 20-30% siliceous clay content, 5 to 15% micrite, 5-10% very fine to fine clear to orange calcite grains, trace fine dark green glauconite, grades to Argillaceous Calcilutite in part.	70	0
	40	CALCILUTITE : white to very light grey, light olive grey, soft to firm, hard in parts, amorphous, 5-10% fossil fragments and forams (coral debris, bryozoa, spicules, shell fragments, forams), 10-15% siliceous clay content, 10 to 15% calcisilt, 5-10% recrystallised, trace very fine dark green glauconite, grades to Argillaceous Calcisiltite in part.		
425 to 430	80	ARGILLACEOUS CALCISILTITE : as above, softer, only trace recrystallised	62	0
	20	CALCILUTITE : as above		
430 to 440	70	ARGILLACEOUS CALCISILTITE : as above	78	0
	30	CALCILUTITE : as above		
440 to 450	50	ARGILLACEOUS CALCISILTITE : very light to light grey, light olive grey, orange grey, soft to firm, amorphous, 5-15% fossil fragments (coral debris, bryozoa, spicules, shell fragments, forams), 20-30% siliceous clay content, 5 to 15% micrite, 5-10% very fine to fine clear to orange calcite grains, trace fine dark green glauconite, trace soft pyrite, grades to Argillaceous Calcilutite in part.	89	0

Well Name : PATRICIA - 2		Print Date Fri 28/06/2002		
Wellsite Geologist(s) : Peter Boothby Ross Tolliday				
Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
	50	CALCILUTITE : very light to light medium grey, light to medium olive grey, soft, dispersive in parts, amorphous, 5% fossil fragments (coral debris, bryozoa, spicules, shell fragments, forams), 15-20% siliceous clay content, 5 to 10% calcisilt, trace very fine dark green glauconite, grades to Argillaceous Calcilutite.		
450 to 460	80	ARGILLACEOUS CALCISILTITE : as above	67	0
	20	CALCILUTITE : as above		
460 to 470	90	ARGILLACEOUS CALCISILTITE : light to light medium grey, light to medium olive grey, trace orange soft, dispersive in parts, firm in parts amorphous, 5% fossil fragments (coral debris, bryozoa, spicules, shell fragments, forams), 20-35% siliceous clay content, 5 to 10% fine, clear to orange calcite grains, trace very fine dark green glauconite, trace soft disseminated pyrite, grades to Argillaceous Calcilutite.	59	0
	10	CALCILUTITE : very light to light medium grey, light to medium olive grey, soft, dispersive in parts, amorphous, 5% fossil fragments and forams, 15-20% siliceous clay content, 5 to 10% calcisilt, trace very fine dark green glauconite, grades to Argillaceous Calcilutite.		
470 to 480	90	ARGILLACEOUS CALCISILTITE : as above, Increasing argillaceous content, 30-40%, Grades to Marl.	56	0
	10	CALCILUTITE : as above		
480 to 490	90	ARGILLACEOUS CALCISILTITE : as above	58	0
	10	CALCILUTITE : as above		
490 to 500	95	ARGILLACEOUS CALCISILTITE : as above	50	0
	5	CALCILUTITE : as above		
500 to 505	60	ARGILLACEOUS CALCISILTITE : light to light medium grey, light to medium olive grey, trace orange, soft to rarely firm, dispersive in parts, amorphous, 5% fossil fragments , 20-35% siliceous clay content, 5 to 10% fine clear to orange calcite & recrystallised grains, trace very fine dark green glauconite, trace soft disseminated pyrite, grades to Argillaceous Calcilutite	49	0
	40	MARL : very light to light medium grey, light to medium olive grey, very soft, dispersive in parts, amorphous, 5% fossil fragments and forams, 30-40% siliceous clay content, trace to 5% calcisilt, trace very fine dark green glauconite, grades to Argillaceous Calcilutite.		
505 to 510	80	ARGILLACEOUS CALCISILTITE : as above, trace dark grey	60	0
	20	MARL : as above		
510 to 515	90	ARGILLACEOUS CALCISILTITE : light to light medium grey, light to medium olive grey, soft to rarely firm, dispersive in parts, amorphous, 5% fossil fragments, 25-35% siliceous clay content, 5 to 10% fine, clear to orange calcite & recrystallised grains, trace very fine dark green glauconite, trace soft disseminated pyrite, grades to Argillaceous Calcilutite.	66	0
	10	MARL : as above		
515 to 520	90	ARGILLACEOUS CALCISILTITE : very light to light medium grey, light to medium olive grey, soft to rarely firm, dispersive in parts, amorphous, 5% fossil fragments, 25-35% siliceous clay content, 10 to 20% fine, clear to orange calcite & recrystallised grains, trace very fine dark green	60	0

Well Name : PATRICIA - 2		Print Date Fri 28/06/2002		
Wellsite Geologist(s) : Peter Boothby Ross Tolliday				
Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
	10	glauconite, trace soft disseminated pyrite, grades to Argillaceous Calcarenite. MARL : as above		
520 to 525	70	CALCISILTITE : very light to light medium grey, light to medium olive grey, soft to rarely firm, amorphous, 5% fossil fragments, 15-25% siliceous clay content, 10 to 20% fine, clear to orange calcite & recrystallised grains, trace very fine dark green glauconite, trace soft disseminated pyrite, grades to Argillaceous Calcarenite. 30 MARL : very light to light grey, light to medium olive grey, very soft, dispersive in parts, amorphous, 5% fossil fragments and forams, 30-40% siliceous clay content, trace to 5% calcisilt, trace very fine dark green glauconite, grades to Argillaceous Calcilutite.	56	0
525 to 530	60 40	CALCISILTITE : as above MARL : as above	53	0
530 to 535	70 30	CALCISILTITE : as above MARL : as above	56	0
535 to 540	60 20 20	CALCISILTITE : very light to light medium grey, light to medium olive grey, soft to rarely firm, amorphous, 5% fossil fragments, 10-15% siliceous clay content, 10 to 20% fine, clear to orange calcite & recrystallised grains, trace very fine dark green glauconite, trace soft disseminated pyrite, grades to Calcarenite. CALCARENITE : very light to light medium grey, white in parts, soft to firm, amorphous, silt to very fine clear to very light grey calcite grains, 5% fossil fragments, 10-15% siliceous clay content, trace very fine dark green glauconite, trace soft disseminated pyrite. MARL : very light to light grey, light to medium olive grey, very soft, dispersive in parts, amorphous, 5% fossil fragments and forams, 30-40% siliceous clay content, trace to 5% calcisilt, trace very fine dark green glauconite, grades to Argillaceous Calcilutite.	66	0
540 to 545	40 40 20	MARL : as above CALCISILTITE : as above CALCARENITE : as above	78	0
545 to 550	40 40 20	CALCISILTITE : very light to light medium grey, light to medium olive grey, soft to rarely firm, amorphous, 5% fossil fragments, 10-15% siliceous clay content, 10 to 20% fine, clear to orange calcite & recrystallised grains, trace very fine dark green glauconite, trace soft disseminated pyrite, grades to Calcarenite. MARL : very light to light grey, light to medium olive grey, very soft, dispersive in parts, amorphous, 5% fossil fragments and forams, 30-40% siliceous clay content, trace to 5% calcisilt, trace very fine dark green glauconite, grades to Argillaceous Calcilutite CALCARENITE : very light to light medium grey, soft to firm, amorphous, silt to very fine, clear to very light grey calcite grains, 5% fossil fragments, 10-15% siliceous clay content, trace very fine dark green glauconite, trace soft disseminated pyrite.	68	0
550 to 555	60 20	CALCISILTITE : as above CALCARENITE : as above	60	0

Well Name : PATRICIA - 2		Print Date Fri 28/06/2002		
Wellsite Geologist(s) : Peter Boothby Ross Tolliday				
Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
	20	MARL : as above		
555 to 560	50	ARGILLACEOUS CALCISILTITE : very light to light medium grey, light to medium olive grey, soft to rarely firm, 5% fossil fragments, 10-25% siliceous clay content, 10 to 20% fine, clear to orange calcite & recrystallised grains, trace very fine dark green glauconite, trace soft disseminated pyrite, grades to Calcarenite.	68	0
	30	CALCARENITE : very light to light medium grey, white in parts, soft to firm, silt to fine, clear to very light grey calcite grains, 5% fossil fragments, 10-15% siliceous clay content, trace very fine dark green glauconite, trace soft disseminated pyrite.		
	20	MARL : as above		
560 to 565	60	ARGILLACEOUS CALCISILTITE : as above	64	0
	30	MARL : as above		
	10	CALCARENITE : as above		
565 to 570	50	ARGILLACEOUS CALCISILTITE : as above	60	0
	30	MARL : as above		
	20	CALCARENITE : as above		
570 to 575	70	ARGILLACEOUS CALCISILTITE : very light to light medium grey, light to medium olive grey, soft to occasionally firm, 5% fossil fragments, 10-25% siliceous clay content, 10 to 20% fine, clear to orange calcite & recrystallised grains, trace very fine dark green glauconite, trace disseminated pyrite, grades to Calcarenite.	78	0
	20	MARL : as above		
	10	CALCARENITE : as above		
575 to 580	75	ARGILLACEOUS CALCISILTITE : as above	82	0
	20	MARL : as above		
	5	CALCARENITE : as above		
580 to 585	60	ARGILLACEOUS CALCISILTITE : as above	56	0
	35	MARL : very light to light grey, light to medium olive grey, very soft, dispersive in parts, amorphous, 5% fossil fragments and forams, 30-40% siliceous clay content, trace to 5% calcsilt, trace very fine dark green glauconite, grades to Argillaceous Calcilutite		
	5	CALCARENITE : as above		
585 to 590	70	ARGILLACEOUS CALCISILTITE : as above	72	4
	25	MARL : as above		
	5	CALCARENITE : as above		
590 to 595	50	ARGILLACEOUS CALCISILTITE : as above	50	2
	40	MARL : as above		
	10	CALCARENITE : as above		

Well Name : PATRICIA - 2		Print Date Fri 28/06/2002		
Wellsite Geologist(s) : Peter Boothby Ross Tolliday				
Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
595 to 600	55	ARGILLACEOUS CALCISILTITE: as above	56	0
	40	MARL : as above, commonly grades to Argillaceous Calcilutite.		
	5	CALCARENITE : as above		
600 to 605	60	ARGILLACEOUS CALCISILTITE: as above	46	4
	35	MARL : as above		
	5	CALCARENITE : as above		
605 to 610	50	ARGILLACEOUS CALCISILTITE: as above	56	0
	45	MARL : white to very light to light grey, rarely light to medium olive grey, very soft, dispersive in parts, amorphous, 5% fossil fragments and forams, 30-40% siliceous clay content, 10-15% calcisilt, trace very fine dark green glauconite, grades to Argillaceous Calcilutite		
	5	CALCARENITE : as above		
610 to 615	60	ARGILLACEOUS CALCISILTITE: as above	60	0
	30	CALCARENITE : very light to light medium grey, white in parts, soft to firm, silt to fine, clear to very light grey calcite grains, 5% fossil fragments, 5-10% siliceous clay content, trace very fine dark green glauconite, trace soft disseminated pyrite.		
	10	MARL : as above		
615 to 620	45	MARL : as above.	58	0
	45	ARGILLACEOUS CALCISILTITE: very light to light medium grey, light to medium olive grey, soft to rarely firm, trace to 5% fossil fragments, 10-25% siliceous clay content, 10 to 20% fine grained calcite & recrystallised grains, trace very fine dark green glauconite, trace disseminated pyrite, grades to Calcarenite.		
	10	CALCARENITE : as above		
620 to 630	70	ARGILLACEOUS CALCISILTITE: as above	56	0
	20	MARL : as above		
	10	CALCARENITE : as above		
630 to 640	70	ARGILLACEOUS CALCISILTITE: as above	54	0
	25	MARL : as above		
	5	CALCARENITE : as above		
640 to 645	50	ARGILLACEOUS CALCISILTITE: very light to medium grey, light to medium olive grey, soft to rarely firm, trace to 5% fossil fragments, 15-25% siliceous clay content, 10 to 15% fine grained calcite & recrystallised grains, trace very fine dark green glauconite, trace disseminated and nodular pyrite, grades to Calcarenite.	48	4
	45	MARL : as above		
	5	CALCARENITE : as above, 2 to 5% inferred dolomite from calcimetry (?).		
645 to 650	60	ARGILLACEOUS CALCISILTITE: as above	60	0

Well Name : PATRICIA - 2		Print Date Fri 28/06/2002		
Wellsite Geologist(s) : Peter Boothby Ross Tolliday				
Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
	35	MARL : as above		
	5	CALCARENITE : as above		
650 to 655	55	ARGILLACEOUS CALCISILTITE : as above	74	0
	40	MARL : white to very light to light grey, light to medium olive grey, very soft, dispersive in parts, amorphous, trace to 5% fossil fragments and forams, 20-30% siliceous clay content, trace to 5% calcisilt, trace very fine dark green glauconite, trace disseminated and rare nodular pyrite, commonly grades to Argillaceous Calcilutite		
	5	CALCARENITE : as above		
655 to 660	50	ARGILLACEOUS CALCISILTITE : as above	66	0
	45	MARL : as above		
	5	CALCARENITE : as above		
660 to 665	50	ARGILLACEOUS CALCISILTITE : as above	64	0
	35	MARL : as above		
	15	CALCARENITE : light to medium grey, white in parts, soft to firm, silt to fine grained calcite,5% fossil fragments, 5-10% siliceous clay content, trace very fine dark green glauconite, trace disseminated and nodular pyrite.		
665 to 670	50	ARGILLACEOUS CALCISILTITE : as above	60	0
	25	MARL : as above		
	25	CALCARENITE : as above		
670 to 680	50	ARGILLACEOUS CALCISILTITE : very light to medium grey, light to medium olive grey, soft to rarely firm, blocky, trace to 5% fossil fragments, 15-25% siliceous clay content, 10 to 15% fine grained calcite & recrystallised grains, trace very fine dark green glauconite, trace disseminated and nodular pyrite, grades to Calcarenite.	50	0
	40	MARL : white to very light to light grey, light to medium olive grey, very soft, dispersive in parts, amorphous, trace to 5% fossil fragments and forams, 25-35% siliceous clay content, trace to 5% calcisilt, trace very fine dark green glauconite, trace disseminated and rare nodular pyrite, commonly grades to Argillaceous Calcilutite		
	10	CALCARENITE : light to medium grey, white in parts, soft to firm, sub blocky to blocky, silt to fine grained calcite,5% fossil fragments, 5-10% siliceous clay content, trace very fine dark green glauconite, trace disseminated and nodular pyrite.		
680 to 690	55	ARGILLACEOUS CALCISILTITE : as above	47	0
	40	MARL : as above		
	5	CALCARENITE : as above		
690 to 700	50	ARGILLACEOUS CALCISILTITE : as above	71	0
	30	MARL : as above		
	20	CALCARENITE : as above		
700 to 710	70	MARL : white to very light to light grey, light to medium olive grey, minor	44	0

Well Name : PATRICIA - 2		Print Date Fri 28/06/2002		
Wellsite Geologist(s) : Peter Boothby Ross Tolliday				
Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
	30	fossil fragments and forams, 20-35% siliceous clay content, trace to 5% calcisilt, trace very fine dark green glauconite, trace disseminated and rare nodular pyrite. Grades to Calcareous Claystone. ARGILLACEOUS CALCISILTITE: very light to medium grey, light to medium olive grey, soft to rarely firm, blocky, trace to 5% fossil fragments, 15-25% siliceous clay content, 10 to 15% fine grained calcite & recrystallised grains, trace very fine dark green glauconite, trace disseminated and nodular pyrite, grades to Calcarenite.		
710 to 720	80 20	MARL : medium grey, light to medium olive grey, minor dark grey, soft, rarely dispersive, amorphous to blocky, trace to 5% fossil fragments and forams, 20-35% siliceous clay content, trace to 5% calcisilt, trace very fine dark green glauconite, trace disseminated and nodular pyrite. Grades to Calcareous Claystone. ARGILLACEOUS CALCISILTITE: as above	46	0
720 to 730	80 20	MARL : as above, trace to 1% fine to medium green glauconite ARGILLACEOUS CALCISILTITE: as above	46	0
730 to 740	90 10	MARL : white to very light to light grey, light to medium olive grey, minor dark grey, soft, amorphous to blocky, 5% fossil fragments and forams, 20-35% siliceous clay content, trace to 5% calcisilt, 2-5% fine to medium dark green glauconite, trace disseminated and nodular pyrite. Grades to Calcareous Claystone. ARGILLACEOUS CALCISILTITE: as above	44	0
740 to 750	70 30	MARL : as above ARGILLACEOUS CALCISILTITE: as above	52	0
750 to 760	50 50	MARL : as above, 1% glauconite ARGILLACEOUS CALCISILTITE: as above, increase in forams to 5%, also spiny fossil frags. Grades to Calcarenite in parts.	61	0
760 to 770	60 40	ARGILLACEOUS CALCISILTITE: as above, grades to Calcarenite in parts MARL : as above	64	0
770 to 780	50 40 10	CALCAREOUS CLAYSTONE: light to medium brownish yellow, soft, amorphous to blocky, 15-25% calcareous content, trace calcisilt, 1-3% fine glauconite, sideritic(?). MARL : light grey, light to medium olive grey, minor dark grey, soft, amorphous to blocky, 5% fossil fragments and forams, 20-35% siliceous clay content, trace to 5% calcisilt, 1-3% fine to medium dark green glauconite, trace disseminated and nodular pyrite. Grades to Calcareous Claystone. ARGILLACEOUS CALCISILTITE: very light to medium grey, light to medium olive grey, soft to rarely firm, blocky, trace to 5% fossil fragments, 15-25% siliceous clay content, 10 to 15% fine grained calcite & recrystallised grains, trace very fine dark green glauconite, trace disseminated and nodular pyrite, grades to Calcarenite.	35	0
780 to 790	60	MARL : light grey, light to medium olive grey, minor dark grey, soft, amorphous to blocky, 5% fossil fragments and forams, 20-35% siliceous clay content, trace to 5% calcisilt, 10-15% fine to medium dark green glauconite, trace disseminated and nodular pyrite. Grades to Calcareous Claystone.	33	0

Well Name : PATRICIA - 2		Print Date Fri 28/06/2002		
Wellsite Geologist(s) : Peter Boothby Ross Tolliday				
Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
	40	CALCAREOUS CLAYSTONE: light to medium brownish yellow, light greyish brown, light grey, soft , amorphous to blocky, 15-25% calcareous content, trace calcisilt, 10-15% fine to medium dark green glauconite.		
790 to 800	70	CALCAREOUS CLAYSTONE: light greyish brown, light grey, light brownish yellow, soft , amorphous to blocky, 15-25% calcareous content, trace calcisilt, 10-15% fine to medium dark green glauconite.	28	0
	30	MARL : as above		
800 to 810	70	CALCAREOUS CLAYSTONE: as above	28	0
	30	MARL : as above		
810 to 820	60	CALCAREOUS CLAYSTONE: light greyish brown, light grey, light brownish yellow, soft , amorphous to blocky, 15-25% calcareous content, 5-10% calcisilt, 10-15% fine to medium dark green glauconite.	28	0
	30	GLAUCONITIC SANDSTONE: medium to very dark green, firm, soft in parts, very fine to medium glauconite ("Greensand"), sub angular to sub rounded.		
	10	MARL : as above		
820 to 830	50	SILTY SANDSTONE: light to dark yellowish brown, loose and friable, minor firm, clear to translucent quartz grains, very fine to fine , poorly to moderately sorted, sub angular to sub rounded, 15-25% quartz silt, 5-15% argillaceous content, 1-3% glauconite, trace -1% mica, trace to 5% siderite nodules, trace multicoloured lithics, fair to good inferred porosity, no fluorescence.	8	0
	50	CALCAREOUS CLAYSTONE: light to medium greyish brown, light grey, light brownish yellow, soft, firm in parts, amorphous to blocky, 15-25% calcareous content, 5-10% calcisilt, 10-15% fine to medium dark green glauconite		
830 to 840	80	SILTY SANDSTONE: as above	2	0
	20	CALCAREOUS CLAYSTONE: as above		
840 to 850	90	SILTY SANDSTONE: as above	6	0
	10	CALCAREOUS CLAYSTONE: as above		
850 to 860	95	SILTY SANDSTONE: as above' 1-3% mica	6	0
	5	CALCAREOUS CLAYSTONE: as above		
860 to 865	90	SILTY SANDSTONE: as above		
	10	CALCAREOUS CLAYSTONE: as above		
865 to 870	85	SILTY SANDSTONE: light to dark yellowish brown, loose and friable, minor firm, clear to translucent quartz grains, very fine to fine , poorly to moderately sorted, sub angular to sub rounded, 15-25% quartz silt, 5-15% argillaceous content, 1-3% glauconite, trace -1% mica, trace to 5% siderite nodules, trace multicoloured lithics, fair to good inferred porosity, no fluorescence.	3	0
	15	CALCAREOUS CLAYSTONE: as above		
870 to 875	80	SILTY SANDSTONE: as above		

Well Name : PATRICIA - 2		Print Date Fri 28/06/2002		
Wellsite Geologist(s) : Peter Boothby Ross Tolliday				
Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
	20	CALCAREOUS CLAYSTONE: as above		
875 to 880	90	SILTY SANDSTONE: light to dark yellowish brown, loose and friable, minor firm, clear to translucent quartz grains, very fine to fine , poorly to moderately sorted, sub angular to sub rounded, 15-25% quartz silt, 5-15% argillaceous content, 1-3% glauconite, trace -1% mica, trace to 5% siderite nodules, trace multicoloured lithics, fair to good inferred porosity, no fluorescence.	4	0
	10	CALCAREOUS CLAYSTONE: light to medium greyish brown, light grey, light brownish yellow, soft, firm in parts, amorphous to blocky, 15-25% calcareous content, 5-10% calcsilt, 10-15% fine to medium dark green glauconite		
880 to 885	90	SILTY SANDSTONE: light to dark yellowish brown, loose and friable, minor firm, clear to translucent quartz grains, very fine to fine , poorly to moderately sorted, sub angular to sub rounded, 15-25% quartz silt, 5-15% argillaceous content, 1-3% glauconite, trace -1% mica, trace to 5% siderite nodules, trace multicoloured lithics, fair to good inferred porosity, no fluorescence.	2	0
	10	CALCAREOUS CLAYSTONE: light to medium greyish brown, light grey, light brownish yellow, soft, firm in parts, amorphous to blocky, 15-25% calcareous content, 5-10% calcsilt, 10-15% fine to medium dark green glauconite		
885 to 890	100	SILTY SANDSTONE: light to dark yellowish brown, greyish brown, loose and friable, minor firm aggregates, clear to translucent quartz grains, very fine to fine, trace medium, poorly to moderately sorted, sub angular to sub rounded, 15-25% quartz silt, 5-15% argillaceous content, 2-5% glauconite, trace -1% mica, trace to 5% siderite nodules, trace multicoloured lithics, trace forams, fair to good inferred porosity, no fluorescence. Grades to Argillaceous Sandstone.		
890 to 900	100	SILTY SANDSTONE: as above, 1-3% Glauconite, trace mica	2	0
900 to 910	100	SILTY SANDSTONE: light to dark yellowish brown, greyish brown, loose and friable, minor hard cemented aggregates, clear to translucent quartz grains, very fine to fine, trace medium, poorly to moderately sorted, sub angular to sub rounded, 20-30% quartz silt, 5-15% argillaceous content, 1-2% glauconite, trace -1% mica, trace to 3% siderite nodules, trace multicoloured lithics, nil to trace forams, fair to good inferred porosity, no fluorescence.	2	0
910 to 920	100	SILTY SANDSTONE: as above, tr-1% mica (muscovite and biotite)	2	0
920 to 930	100	SILTY SANDSTONE: as above	2	0
930 to 940	100	SILTY SANDSTONE: as above	1	0
940 to 950	100	SILTY SANDSTONE: light to dark yellowish brown, greyish brown, loose and friable to hard cemented (siderite?) aggregates, clear to translucent quartz grains, very fine to fine, trace medium, poorly to moderately sorted, sub angular to sub rounded, 20-30% quartz silt, 5-15% argillaceous content, 1-2% glauconite, trace -1% mica, trace to 3% siderite nodules, trace multicoloured lithics, nil to trace forams, fair to good inferred porosity, no fluorescence.	1	0
950 to 960	100	SILTY SANDSTONE: as above	1	0
960 to 970	100	SILTY SANDSTONE: light to dark yellowish brown, greyish brown, loose	1	0

Well Name : PATRICIA - 2		Print Date Fri 28/06/2002		
Wellsite Geologist(s) : Peter Boothby Ross Tolliday				
Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
		quartz grains, very fine to fine, trace medium, poorly to moderately sorted, sub angular to sub rounded, 15-25% quartz silt, 5-10% argillaceous content, tr-1% glauconite, trace -1% mica, trace to 2% siderite nodules, trace multicoloured lithics, nil to trace forams, fair to good inferred porosity, no fluorescence.		
970 to 980	100	SILTY SANDSTONE: as above	1	0
980 to 990	100	SILTY SANDSTONE: light to dark yellowish brown, greyish brown, loose and friable to rare hard cemented (siderite?) aggregates, clear to translucent quartz grains, very fine to fine, trace medium, poorly to moderately sorted, sub angular to sub rounded, 15-25% quartz silt, 5% argillaceous content, tr-1% glauconite, trace -1% mica, trace siderite nodules, trace multicoloured lithics, nil to trace forams, fair to good inferred porosity, no fluorescence. Grades to Sandstone.	2	0
990 to 1000	100	SILTY SANDSTONE: as above. Grades to Sandstone.	2	0
1000 to 1010	100	SILTY SANDSTONE: as above. Grades to Sandstone.	2	0
1010 to 1020	100	SILTY SANDSTONE: light to dark yellowish brown, greyish brown, loose and friable to hard cemented (siderite?) aggregates, clear to translucent quartz grains, very fine to fine, trace medium, poorly to moderately sorted, sub angular to sub rounded, 20-30% quartz silt, 5-10% argillaceous content, trace-1% glauconite, trace -1% mica, trace to 3% siderite, trace multicoloured lithics, nil to trace forams, fair to good inferred porosity, no fluorescence.	2	0
1020 to 1030	100	SILTY SANDSTONE: as above	2	0
1030 to 1040	100	SILTY SANDSTONE: as above, with 5% dark brownish grey to dark yellowish brown, firm to hard siderite nodules and firm to moderately hard Silty Sandstone Siderite cemented aggregates.		
1040 to 1050	100	ARGILLACEOUS / SILTY SANDSTONE: light to dark yellowish brown, medium greyish brown, loose and friable to hard cemented (siderite?) aggregates, clear to translucent quartz grains, very fine to fine, trace medium, poorly to moderately sorted, angular to sub rounded, 20-30% quartz silt, 15-25% argillaceous content, trace-1% glauconite, trace -1% mica, trace to 5% siderite, trace multicoloured lithics, trace nodular pyrite, nil to trace forams, fair inferred porosity, no fluorescence.	0	0
1050 to 1060	100	SILTY SANDSTONE: as above. 5-10% siderite cemented aggregates and Siderite nodules. Fair to good inferred porosity.		
1060 to 1070	100	SILTY / SIDERITIC SANDSTONE: as above with 15-20% siderite cemented aggregates and siderite nodules.	0	0
1070 to 1080	100	SIDERITIC / SILTY SANDSTONE: light to dark yellowish brown, medium greyish brown, 15-25% firm to moderately hard cemented siderite aggregates, loose to friable clear to translucent quartz grains, very fine to fine, trace medium, moderately sorted, angular to sub rounded, 20-25% quartz silt, 15% argillaceous content, trace-1% glauconite, trace -1% mica, trace multicoloured lithics, trace nodular pyrite, nil to trace forams, fair to good inferred porosity, no fluorescence.		
1080 to 1090	100	SILTY SANDSTONE: light to dark yellowish brown, greyish brown, loose and friable to hard cemented (siderite?) aggregates, clear to translucent quartz grains, very fine to fine, trace medium, moderately sorted, angular to sub rounded, 20-30% quartz silt, 5-10% argillaceous content (suspect		

Well Name : PATRICIA - 2		Print Date Fri 28/06/2002		
Wellsite Geologist(s) : Peter Boothby Ross Tolliday				
Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
		clay content being dispersed into mud system), trace-1% glauconite, trace -1% mica, trace to 5% siderite, trace multicoloured lithics, trace nodular pyrite, nil to trace forams, fair to good inferred porosity, no fluorescence.		
1090 to 1100	100	SILTY / ARGILLACEOUS SANDSTONE: light to dark yellowish brown, greyish brown, loose and friable to rare hard cemented (siderite?) aggregates, clear to translucent quartz grains, very fine to fine, moderately sorted, angular to sub rounded, 15-20% quartz silt, 15-30% argillaceous content (suspect clay content being dispersed into mud system), trace-1% glauconite, trace -1% mica, trace to 5% siderite, trace multicoloured lithics, trace nodular pyrite, nil to trace forams, fair inferred porosity, no fluorescence.		
1100 to 1110	100	SILTY SANDSTONE: as above. with 10-15% argillaceous content, fair to good inferred porosity.		
1110 to 1120	100	SILTY SANDSTONE: as above		
1120 to 1130	100	SILTY / ARGILLACEOUS SANDSTONE: as above, suspect clays being dispersed and washed out of samples.	0	0
1130 to 1140	100	SILTY / ARGILLACEOUS SANDSTONE: light to dark yellowish brown, greyish brown, dominantly loose and friable to very rare hard cemented (siderite?) aggregates, clear to translucent quartz grains, very fine to fine, rare medium, moderately sorted, angular to sub rounded, 15-20% quartz silt, 15-30% argillaceous content (suspect clay content being dispersed into mud system), trace-1% glauconite, trace -1% mica, trace to 5% siderite, trace multicoloured lithics, trace nodular pyrite, nil to trace forams, fair inferred porosity, no fluorescence.		
1140 to 1150	100	SILTY / ARGILLACEOUS SANDSTONE: as above		
1150 to 1160	100	SILTY / ARGILLACEOUS SANDSTONE: as above		
1160 to 1170	100	SILTY / ARGILLACEOUS SANDSTONE: light to dark yellowish brown, greyish brown, dominantly loose and friable, very rare hard cemented (siderite?) aggregates, clear to translucent quartz grains, very fine to fine, rare medium, poor to moderately sorted, angular to sub rounded, 15-20% quartz silt, 15-30% argillaceous content (suspect clay content being dispersed into mud system), trace-1% glauconite, trace -1% mica, trace to 5% siderite, trace multicoloured lithics, trace nodular pyrite, nil to trace forams, fair to good inferred porosity, no fluorescence.	0	0
1170 to 1180	100	SILTY / ARGILLACEOUS SANDSTONE: as above, 15-20% siderite cemented aggregates and siderite nodules, grades in part to Sideritic Sandstone.		
1180 to 1190	100	SILTY / ARGILLACEOUS SANDSTONE: light to dark yellowish brown, greyish brown, dominantly loose and friable, rare hard cemented (siderite?) aggregates, clear to translucent quartz grains, very fine to fine, rare medium, poor to moderately sorted, angular to sub rounded, 15-20% quartz silt, 15-30% argillaceous content (suspect clay content being dispersed into mud system), trace-1% glauconite, trace -1% mica, trace to 5% siderite, trace multicoloured lithics, trace nodular pyrite, nil to trace forams, fair to good inferred porosity, no fluorescence.		
1190 to 1200	100	SIDERITIC / ARGILLACEOUS SANDSTONE: light to commonly dark yellowish brown, dark greyish brown, dominantly loose and friable, common hard cemented (siderite?) aggregates, clear to translucent quartz grains, very fine to fine, rare medium, poor to moderately sorted, angular to sub rounded, 15-20% quartz silt, 15-30% argillaceous content (suspect clay content being dispersed into mud system), trace-1%		

Well Name : PATRICIA - 2		Print Date Fri 28/06/2002		
Wellsite Geologist(s) : Peter Boothby Ross Tolliday				
Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
		glauconite, trace -1% mica, 15-20% siderite nodules, trace multicoloured lithics, trace nodular pyrite, nil to trace forams, fair inferred porosity, no fluorescence.		
1200 to 1210	100	SIDERITIC / ARGILLACEOUS SANDSTONE: as above	1	0
1210 to 1220	100	SILTY SANDSTONE: light to dark yellowish brown, medium greyish brown, dominantly loose and friable, rare hard cemented (siderite?) aggregates, clear to translucent quartz grains, very fine to fine, rare medium, moderately sorted, angular to sub rounded, 15-20% quartz silt, 15-20% argillaceous content (suspect clay content being dispersed into mud system), trace-1% glauconite, trace -2% mica, 5% siderite nodules, trace multicoloured lithics, trace nodular pyrite, nil to trace forams, fair to good inferred porosity, no fluorescence.		
1220 to 1230	100	SILTY SANDSTONE: as above		
1230 to 1240	100	SILTY SANDSTONE: as above		
1240 to 1250	100	SILTY SANDSTONE: as above	0	0
1250 to 1260	100	SILTY SANDSTONE: light to dark yellowish brown, medium greyish brown, dominantly loose and friable, trace hard cemented (siderite?) aggregates, clear to translucent quartz grains, very fine to fine, moderately sorted, angular to sub rounded, 15-20% quartz silt, 10% argillaceous content (suspect clay content being dispersed into mud system), trace-1% glauconite, trace -2% mica, trace to 2% siderite nodules, trace multicoloured lithics, trace nodular pyrite, nil to trace forams, fair to good inferred porosity, no fluorescence.		
1260 to 1270	100	SILTY SANDSTONE: as above		
1270 to 1280	100	SILTY SANDSTONE: as above. trace siderite nodules. good inferred porosity. No fluorescence.		
1280 to 1290	100	SANDSTONE : light to dark yellowish brown, medium greyish brown, dominantly loose and friable, clear to translucent quartz grains, very fine to fine, moderately sorted, angular to sub rounded, 10-15% quartz silt, 10% argillaceous content (suspect clay content being dispersed into mud system), trace-1% glauconite, trace -2% mica, trace siderite nodules, trace multicoloured lithics, trace nodular pyrite, nil to trace forams, good inferred porosity, no fluorescence.		
1290 to 1300	100	SANDSTONE : as above	2	0
1300 to 1310	100	SANDSTONE : as above		
1310 to 1320	100	SANDSTONE : light to medium yellowish brown, medium greyish brown, dominantly loose and friable, clear to translucent quartz grains, very fine to fine, moderately sorted, angular to sub rounded, 10-15% quartz silt, 10% argillaceous content (suspect clay content being dispersed into mud system), trace-1% glauconite, trace -2% mica, trace siderite nodules, trace multicoloured lithics, trace nodular pyrite, nil to trace forams, good inferred porosity, no fluorescence.		
1320 to 1330	100	ARGILLACEOUS SANDSTONE: light to medium yellowish brown, medium greyish brown, dominantly loose and friable, clear to translucent quartz grains, very fine to fine, moderately sorted, angular to sub rounded, 10-15% quartz silt, 15-30% argillaceous content (suspect clay content being dispersed into mud system), trace-1% glauconite, trace -2% mica,	1	0

Well Name : PATRICIA - 2		Print Date Fri 28/06/2002		
Wellsite Geologist(s) : Peter Boothby Ross Tolliday				
Interval (mRT)	%	Lithology / Show Descriptions	Ca (%)	Mg (%)
		trace siderite nodules, trace multicoloured lithics, trace nodular pyrite, nil to trace forams, good inferred porosity, no fluorescence.		
1330 to 1340	100	ARGILLACEOUS SANDSTONE: light to medium yellowish brown, medium greyish brown, dominantly loose and friable, clear to translucent quartz grains, very fine to fine, moderately sorted, angular to sub rounded, 10-15% quartz silt, 15-30% argillaceous content (suspect clay content being dispersed into mud system), trace-1% glauconite, trace -2% mica, trace to 3% dark yellowish brown siderite nodules, trace multicoloured lithics, trace nodular pyrite, nil to trace forams, fair to good inferred porosity, no fluorescence.		
1340 to 1350	100	ARGILLACEOUS SANDSTONE: as above		
1350 to 1360	100	ARGILLACEOUS SANDSTONE: as above		
1360 to 1370	100	ARGILLACEOUS SANDSTONE: as above, trace firm cemented aggregates.		
1370 to 1380	100	ARGILLACEOUS SANDSTONE: light to medium yellowish brown, medium greyish brown, dominantly loose and friable, clear to translucent quartz grains, very fine to fine, moderately sorted, angular to sub rounded, 10-15% quartz silt, 15-30% argillaceous content (suspect clay content being dispersed into mud system), trace-1% glauconite, trace -2% mica, trace to 3% dark yellowish brown siderite nodules, trace multicoloured lithics, trace nodular pyrite, nil to trace forams, fair to good inferred porosity, no fluorescence.		
1380 to 1385	100	ARGILLACEOUS SANDSTONE: as above	1	0



OMV Australia





INTEQ

END OF WELL REPORT

OMV Australia

PATRICIA-2

20 – 28 June 2002

by

BAKER HUGHES INTEQ

The information, interpretations, recommendations, or opinions contained herein are advisory only and may be rejected. Consultant does not warrant their accuracy or correctness. Nothing contained herein shall be deemed to be inconsistent with, nor expand, modify or alter consultant's obligation of performance as provided for in a written agreement between the parties, or, if none, in consultant's most recent price list.

Patricia-2

Final Well Report

		Page
Section 1	Well Summary	1
Section 2	Drilling & Engineering	
	2.1 Bit Run Summaries	3
	2.2 Casing and Cementing Summaries	7
Section 3	Survey	10
Section 4	Geology & Shows	
	4.1 Geology Summary and Shows	11
	4.2 Sampling Summary and Record of Distribution	14
Section 5	Pressure Evaluation	
	5.1 Pore Pressure Evaluation	16
	5.2 Fracture Pressure Evaluation	17
Tables	Bit Run Summary	
	Bit Hydraulics Summary	
	Time Depth Curve	
Appendices		
	Formation Evaluation Log	1 : 500
	Drilling Data Plot	1 : 1000
	Pressure Data Plot	1 : 2500
	Pressure Summary Plot	1 : 5000

SECTION 1

WELL SUMMARY

1 Well Data Summary

Well Name	Patricia-2
Rig Name:	MODU Ocean Bounty
Rig Type:	Semi-submersible
Drilling Contractor:	Diamond Offshore General Company
Permanent Datum:	Lowest Astronomical Tide (LAT)
Drilling Datum:	Rotary Table
Drill Floor Elevation:	25.0m
Water Depth:	52.5m MSL 53.1m LAT
Surface Coordinates:	038° 01' 39.95" S Lat 148° 26' 57.78" E Long
Block:	VIC/L21
Well Type:	Field Development
Spud Date:	20 June 2002
Total Depth:	1385m
TD Date:	28 June 2002
Well Status:	Completed & Tested
Baker Hughes INTEQ Crew:	
Data Engineers:	Rommel Tadiar Jeff Wilson Romeo Tena
Logging Geologists:	Elaine Spence Malcolm Dixon Trent Liang

1.1 Well Summary

The well Patricia-2 is located in VIC/L21, approximately 140NM from Port Welshpool and 285 NM from Geelong. The objectives of the well were to confirm reservoir structure, to provide wellbore access to the Patricia gas reservoir with minimal formation damage, to obtain complete open hole log information throughout the reservoir interval, estimate reservoir pressures, determine deliverability / inflow performance and to obtain representative reservoir gas samples. All depths in this report unless otherwise stated refer to depths in metres below the rotary table – RT.

Patricia-2 was spudded at 16:00hrs on 20 June 2002, using a 26" bit with a 36" hole opening assembly. The 36" hole was drilled from the seabed to 111.5m using seawater and pre-hydrated gel mud. A 30" x 20" casing was run and set at 111.5mRT.

The 17.5" section was drilled using a Security DBS type XTIC bit in tandem with a mud motor and LWD tool assembly. The cement and shoe track were cleaned out and 222.5m of new hole drilled, reaching the casing point without problems. At the section TD of 334m, the hole was displaced to gel mud and the bit was pulled out. Tight hole was observed during the wiper trip to the 30" shoe. The bit was backreamed out between 325m and 230m, after running back to bottom no drag was noted on the trip out to run casing. After a successful casing run, the Sub-Sea Tree assembly was run and landed on the wellhead. The SST was pressure tested on the AX gasket connector to 3000psi. The BOPs were then run, landed and pressure-tested successfully.

Drilling of the 12.25" hole section commenced from 334m using a Reed MHT13GC rock bit on a steerable assembly including LWD tools to 884m. After drilling out the shoe track and casing shoe at 327.1mRT, three metres of new formation was drilled to 337m. The hole was then displaced to a KCl/PHPA/Glycol mud system initially weighted to 1.06sg. A Formation Integrity Test (FIT) was performed, with an EMW of 1.73sg exerted on formations below the casing shoe. The 12.25" directional hole was drilled at an average penetration rate of about 19m/hr, sliding and rotating as directed by the directional driller from 334m to 884mRT. A maximum gas peak of 12.5% was recorded at the top of the reservoir section at 843mRT. Once the planned 9.625" casing depth was reached, returns were circulated to surface and the mud weight increased to 1.12sg. Circulation continued until background gas levels fell below 0.7%. The well was checked for flow before wiping the hole back to 655m, pumping out as required. A short trip gas peak of 9.5% was recorded after running the bit back to bottom. The hole was circulated until background gas levels had fallen below 0.5%.

The 8.5" hole section was drilled using a Reed EHP41ALKDH rock bit on a steerable assembly including LWD tools. The mud system used was FLO-PRO with weights ranging from 1.07sg to 1.12sg. After cleaning out the shoe track, the casing shoe at 872.3mRT and drilling three metres of new formation to 887m, a formation integrity test (FIT) was successfully conducted. Using mud weighted to 1.07sg, the formation was subjected to a 1.40sg EMW without pressure leak-off. Drilling then recommenced, rotating and sliding to maintain a horizontal profile as per program at an average penetration rate of about 37m/hr. The well's Total Measured Depth of 1385mRT (True Vertical Depth of 701.2mRT) was reached at 01:00hrs on 28 June 2002. The hole was circulated clean and spotted with fresh Flo-Pro mud before a wiper trip to the 9.625" casing shoe was made. Once back on bottom, the hole was circulated clean using uninhibited brine solution. The bit was then pulled out to surface for the completion and production well test programme.

After running the sand screens and other well completion equipment, Patricia-2 was flow-tested before being secured for future gas production. The Ocean Bounty MODU was towed off location on 09 July 2002.

SECTION 2

DRILLING & ENGINEERING

2.1 Bit Run Summaries

Patricia-2

36" Hole Section 20 June 2002

Bit Run No. 1 Summary

Bit Number	RR1
Bit Size	26"
	w/ 36" Hole Opener
Bit Type	Smith DSJC
S/N	KW0659
Jets	1 x 17, 3 x 24
Depth In (m)	77.5
Depth Out (m)	111.5
Metres Drilled	34
Drilling Hours	0.6
TBR (krevs)	2.6
Circulating Hours	0.9
Average ROP (m/hr)	56.7
API Condition	Not Graded

Drilling Parameters

WOB (klbs)	2.8	-	11.7
RPM	60		
Torque (kft-lbs)	0	-	4
Pump Pressure (psi)	38	-	1034
Flow In (gpm)	208	-	1180

Mud System

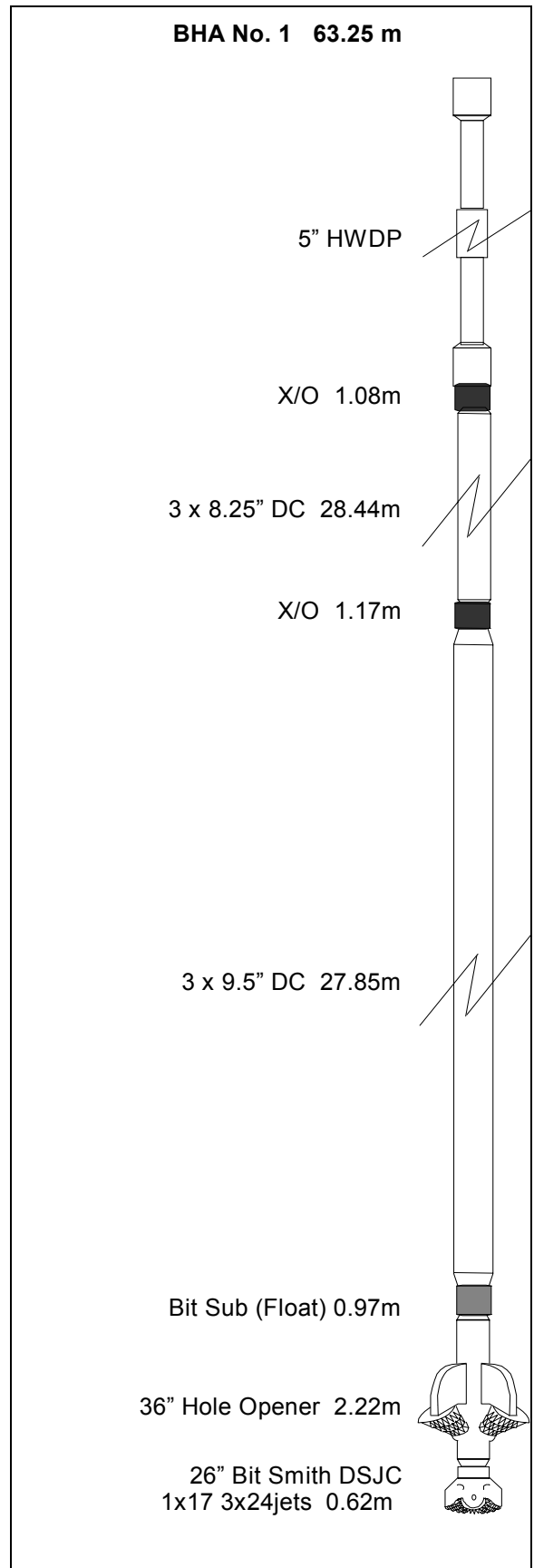
Seawater & hi-viscosity Gel	1.03sg
Sweeps	

Lithology

Returns to seabed

Drilling Summary

A 26" bit with a 36" hole opener was made up on a rotary BHA. The bit tagged seabed at 77.5mRT. Patricia-2 was spudded at 16:00hrs on 20 June 2002. The 36" hole was drilled to 111.5mRT with seawater and PHG sweeps. A wiper trip was conducted to just below the sea floor. No fill was recorded. The hole was then displaced with 210bbls PHG mud. A TOTCO survey was dropped and the bit was pulled to surface to run the 30" conductor casing and wellhead. The survey tool was recovered at surface indicating a hole angle of 0.25 degrees.



17.5" Hole Section 21 June 2002

Bit Run No. 2 Summary

Bit Number	NB 2	
Bit Size	17.5	
Bit Type	Security DBS XTIC	
S/N	740844	
Jets	3 x 24	
Depth In (m)	111.5	
Depth Out (m)	334	
Metres Drilled	222.5	
Drilling Hours	3.6	
TBR (krevs)	29.8	
Circulating Hours	7.5	
Average ROP (m/hr)	61.8	
API Condition	Not Graded	

Drilling Parameters

WOB (klbs)	1	-	14
RPM	96	-	169
Torque (kft-lbs)	-	-	-
Pump Pressure (psi)	997	-	1410
Flow In (gpm)	739	-	803

Mud System

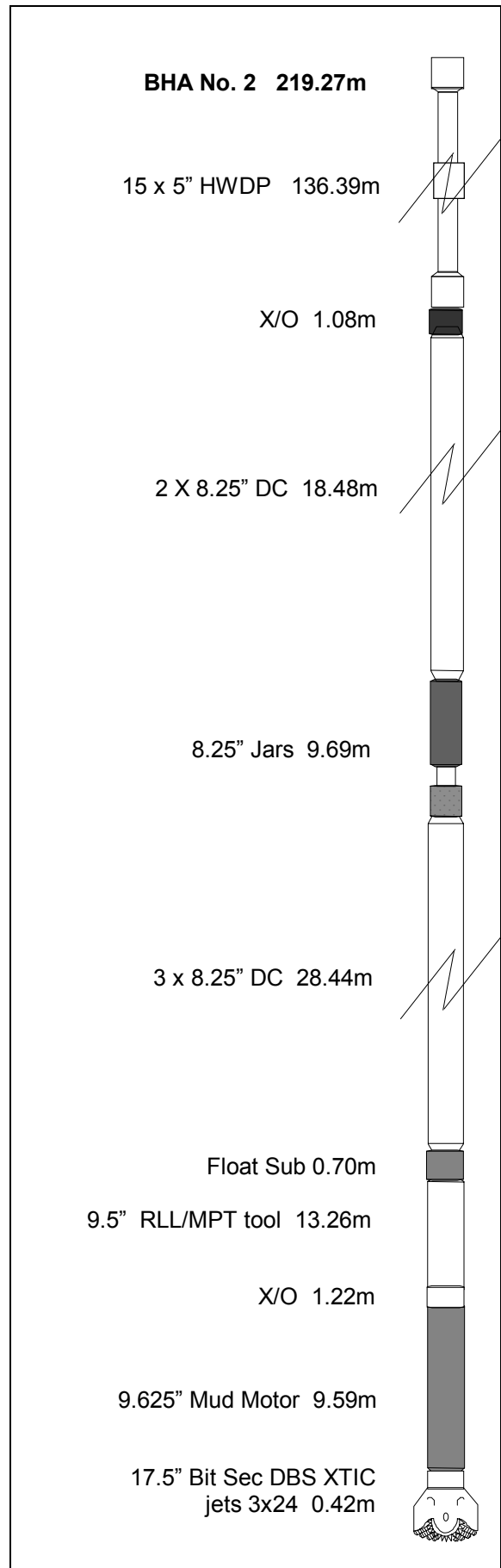
Seawater & hi-viscosity Gel	1.03sg
Sweeps	

Lithology

Returns to seabed

Drilling Summary

NB2, a 17.5" bit was made up on a mud motor and LWD tool and RIH. Cement was tagged and drilled out from 102m. After cleaning out the shoe track, NB2 drilled new formation from 111.5m using seawater and high viscosity gel sweeps. The section was drilled smoothly while building angle to an inclination of 11.75 degrees. At the section TD of 334m, a 100-bbl high viscosity mud pill was pumped. While working pipe, a further 320bbbls of gel was spotted in hole. A wiper trip to the 30" casing shoe was performed. The hole was tight and as a result the bit was backreamed out between 325m and 230m. The bit was run back to bottom, no hole fill was recorded. The hole was swept with seawater prior to displacing to gel. The bit was then pulled out of hole to run casing. The hole was slick all the way out and after the LWD data was transferred, preparations were made to run the 13.375" casing.



**12.25" Hole Section
23 - 25 June 2002**

Bit Run No. 3 Summary

Bit Number	NB 3
Bit Size	12.25
Bit Type	Reed MHT13GC
S/N	NL5007
Jets	3 x 15, 1 x 24
Depth In (m)	334
Depth Out (m)	884
Metres Drilled	550
Drilling Hours	29.0
TBR (krevs)	429657
Circulating Hours	40.2
Average ROP (m/hr)	19
API Condition	2-2-WT-A-E-1-NO-TD

Drilling Parameters

WOB (klbs)	0.7	-	34.9
RPM	177	-	287
Torque (kft-lbs)	0	-	7.1
Pump Pressure (psi)	1002	-	2162
Flow In (gpm)	691	-	872

Mud System

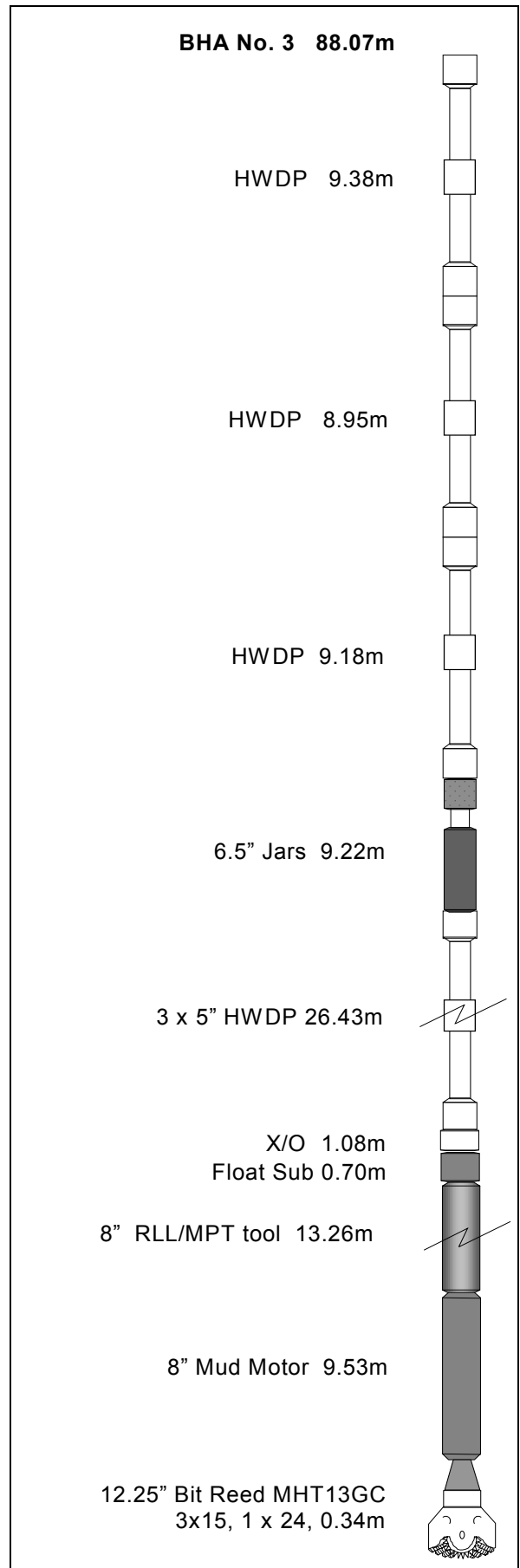
KCI / PHPA / Glycol 1.06-1.10sg

Lithology

Calcarenite, Calcisiltite, Marl, Calcareous Claystone & Silty Sandstone

Drilling Summary

A 12.25" rock bit was made up with a mud motor and LWD tool and run in hole, tagging cement at 300mRT. After cleaning out the shoe track, three metres of new formation was drilled to 337m. The hole was then displaced to a KCI/PHPA/Glycol mud system initially weighted to 1.06sg. The hole was circulated clean and a Formation Integrity Test (FIT) performed, with 314psi surface pressure yielding a downhole EMW of 1.73sg. The 12.25" directional hole was drilled at an average penetration rate of about 19m/hr, sliding and rotating as directed by the directional driller from 334m to 884mRT. A maximum gas peak of 12.5% was recorded at the top of the reservoir section at 843mRT. Once the planned 9.625" casing depth was reached, returns were circulated to surface and the mud weight increased to 1.12sg. Circulation continued until background gas levels fell below 0.7%. The well was checked for flow before wiping the hole back to 655m, pumping out as required. Running the back to bottom, no fill was encountered. A short trip gas peak of 9.5% was recorded. The hole was circulated until background gas levels had fallen below 0.5%. The bit was then pulled to surface without any problems.



**8.5" Hole Section
27 - 28 June 2002**

Bit Run No. 4 Summary

Bit Number	NB 4
Bit Size	8.5
Bit Type	REED EHP41ALKDH
S/N	M25484
Jets	3 x 14
Depth In (m)	884
Depth Out (m)	1385
Metres Drilled	501
Drilling Hours	13.4
TBR (krevs)	166.5
Circulating Hours	22.3
Average ROP (m/hr)	37.4
API Condition	1-2-NO-G-E-I-WT-TD

Drilling Parameters

WOB (klbs)	0.7	-	48.9
RPM	87	-	203
Torque (kft-lbs)	0	-	10.1
Pump Pressure (psi)	1275	-	2089
Flow In (gpm)	515	-	596

Mud System

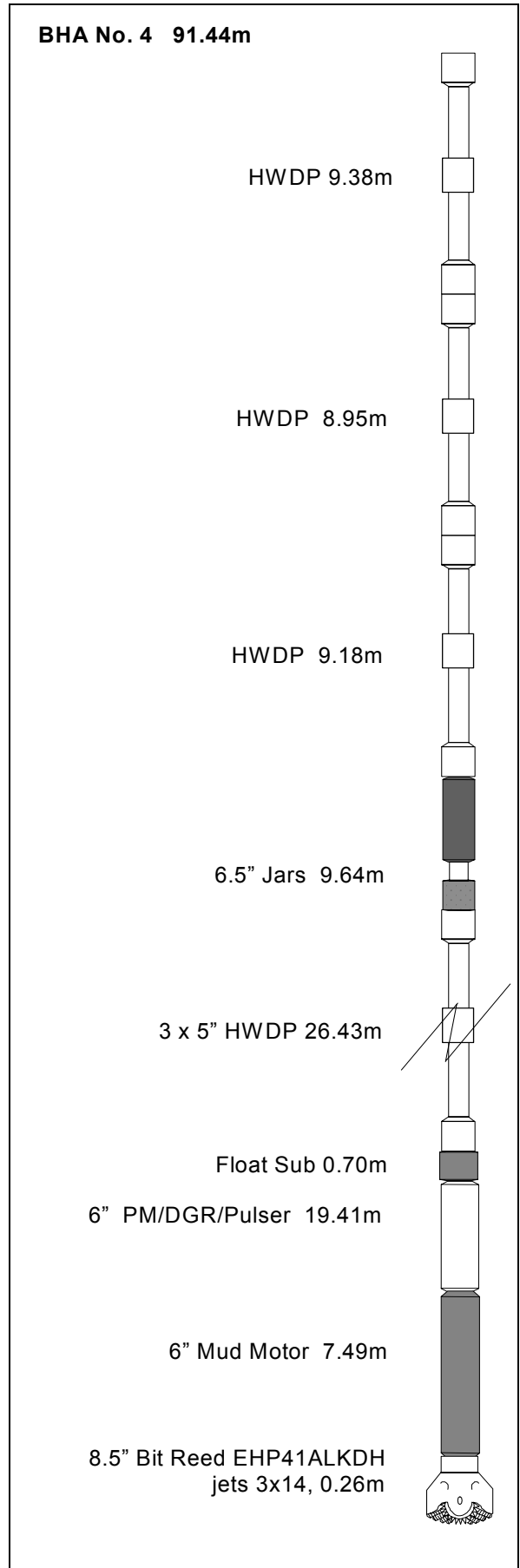
Flo – Pro 1.07-1.12sg

Lithology

Silty Sandstone and Sandstone

Drilling Summary

NB4 was made up with a mud motor and LWD tool and run in hole. After drilling cement, shoe track and three meters of new formation, a FIT using 1.07sg successfully reached the target 1.40sg EMW without breaking the formation. Drilling continued, rotating and sliding horizontally to the well's Total Depth of 1385mRT, 701mTVD. The hole section was drilled smoothly at an average of 37 m/hr. At TD, bottoms-up sample was circulated out and the open hole was spotted with fresh Flo-Pro mud system. After a flowcheck, the bit was pulled inside the 9.625" casing shoe. A 25bbl brine spacer was pumped, followed by 50bbls of wash pill and chased with another 25bbl brine spacer. The well was circulated clean using uninhibited brine solution. The bit was then pulled to surface to run sand screens in preparation for the completion and production well-testing program.



2.2 Casing / Cementing Summary

30" Conductor

20 June 2002

Hole Size 36"
Depth 111.5mRT

Casing 1 30" x 20" Shoe joint
1 30" Intermediate Joint
1 x 30" Well Head

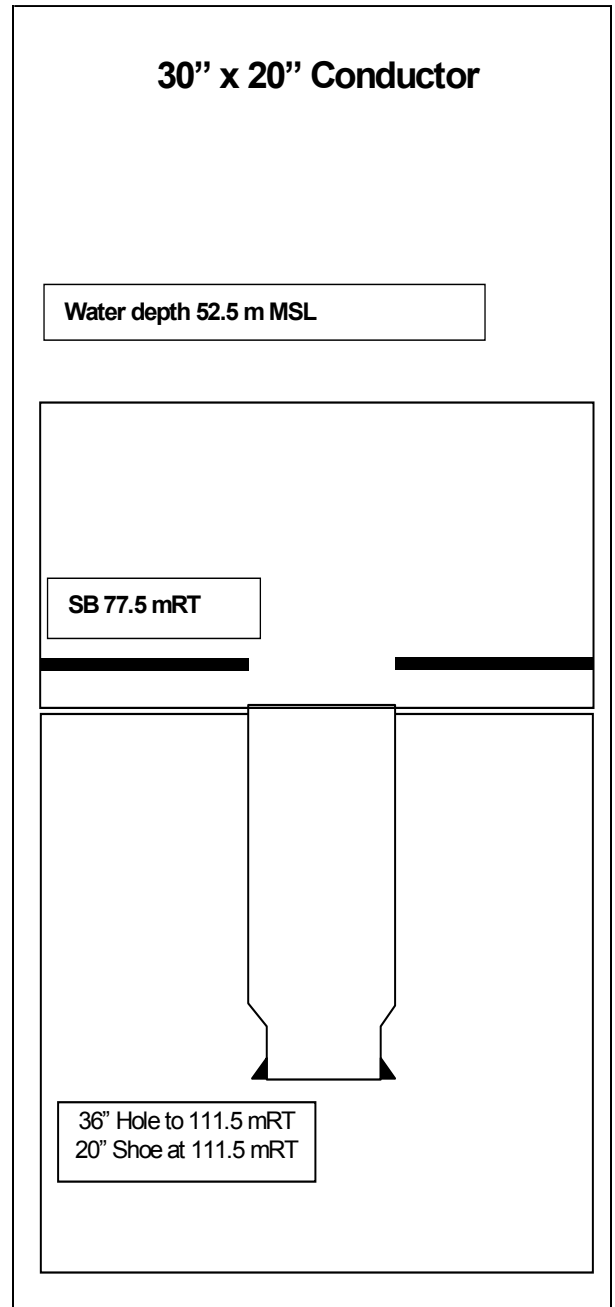
ID 28" (18.75" on 20" casing)
Weight 310 lb/ft (WH joint 456 lb/ft)
Grade X-52 x 30", K55 x 20"
Shoe Depth 111.5mRT

Cement Details:

Sacks 766
Type Class "G"
Mix water 92 bbls
Additives 17 sxs CaCl
2.5 gal NF-5
Weight 15.9 ppg
Volume 159 bbls

Summary

Two joints of conductor casing, the swedged 30"/20" shoe joint and PGB were made up and landed on the seabed. The PGB slope indicator showed no deviation (bull's eye). The top of the 30" wellhead was set at 76mRT, 1.5m above seabed. The cement lines were pressure-tested to 2000psi and 10bbls seawater with dye pumped. The casing was cemented with 159bbls slurry at 1.9sg (15.8 ppg) and displaced with 11.5bbls seawater. After pressure was bled off, it was found that the float had held and the running tool was disengaged and pulled to surface.



13.375" Casing**21 June 2002**

Hole Size 17.5"
Depth 334mRT

Casing 1 x Shoe Joint
1 x Intermediate Joint
1 x Float collar joint
16 x 13.375" Casing K-55, 68ppf
1 x 13.375" No Cross Coupling
1 x 18.75" Hsg/20"

ID 12.452"
Weight 68 lb/ft, BTC
Grade K-55
Shoe Depth 327.1mRT

Cement Details:**Lead Slurry**

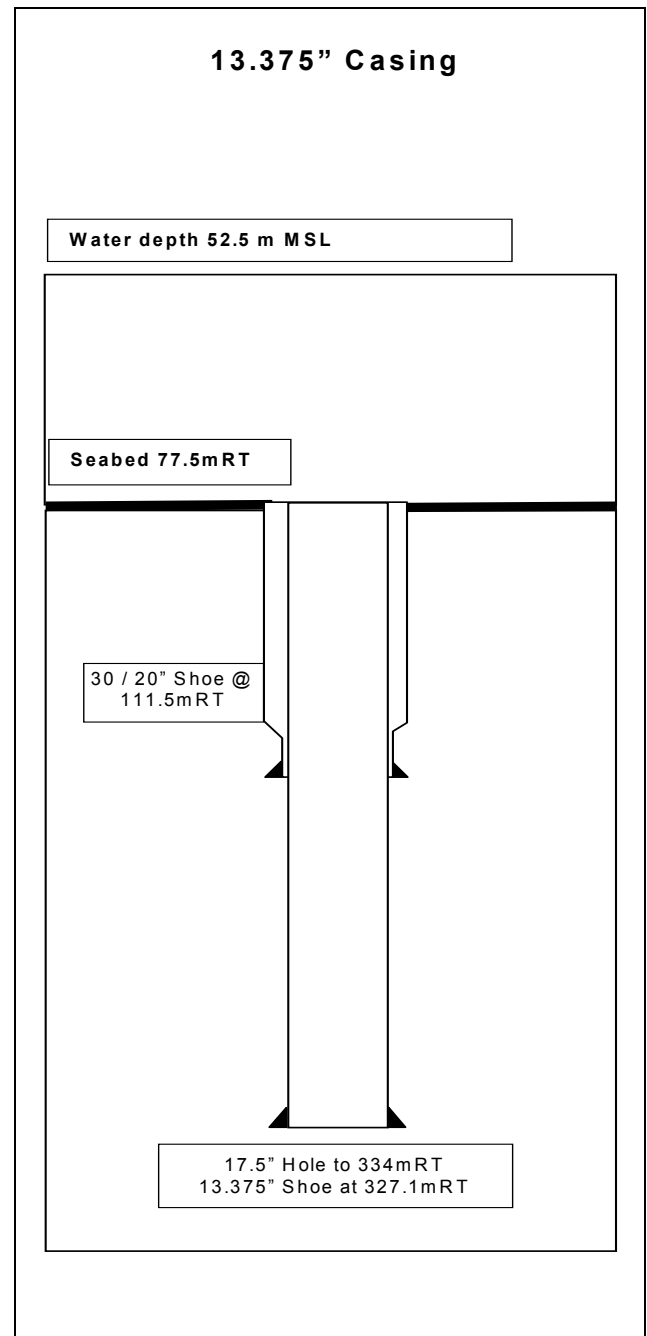
Sacks 240
Type Class "G"
Mix water seawater
Additives 159 gal Econolite
Weight 12.5 ppg (1.5 sg)
Yield 2.23 cuft/sx
Volume 95 bbls

Tail Slurry

Sacks 484
Type Class "G"
Mix water seawater
Additives 0.25 gal/sx NF-5 (2.5 gal)
1% BWOC CaCl (12sxs)
Weight 15.9 ppg (1.9 sg)
Yield 1.17 cuft/sx
Volume 100 bbls

Summary

The 13.375" casing string was made up, landed and latched on the Cameron 18.75" Wellhead in the 30" housing, tested with 50klbs overpull. The casing was circulated with 180bbls seawater at 90 strokes per minute. The cement lines were rigged up and 10bbls seawater pumped before pressure-testing to 3000psi. The ball was dropped, the bottom plug sheared out and a further 10bbls of dye spacer pumped. The lead slurry of 95bbls cement and 102bbls tail slurry was mixed and pumped. The dart was released and the top plug sheared out. The cement was then displaced with 109bbls seawater at a rate of 9bbls/min. The plug did not bump after the calculated displacement volume was pumped. Pressure was bled off and after confirming that the floats had held, the running tool was disengaged and pulled to surface.



9.625" Casing**26 June 2002**

Hole Size 12.25"
Depth 884m

Casing 1 x Shoe Joint
1 x Intermediate Joint
1 x Float collar joint
58 x 9.625" Casing L-80, 47ppf
2 x 9.625" pup joint
1 x 9.625" X/O pup joint
1 x 9.625" casing hanger

ID 8.575"
Weight 47lb/ft
Grade L80 NK3DB/New Vam
Shoe Depth 872.36mRT

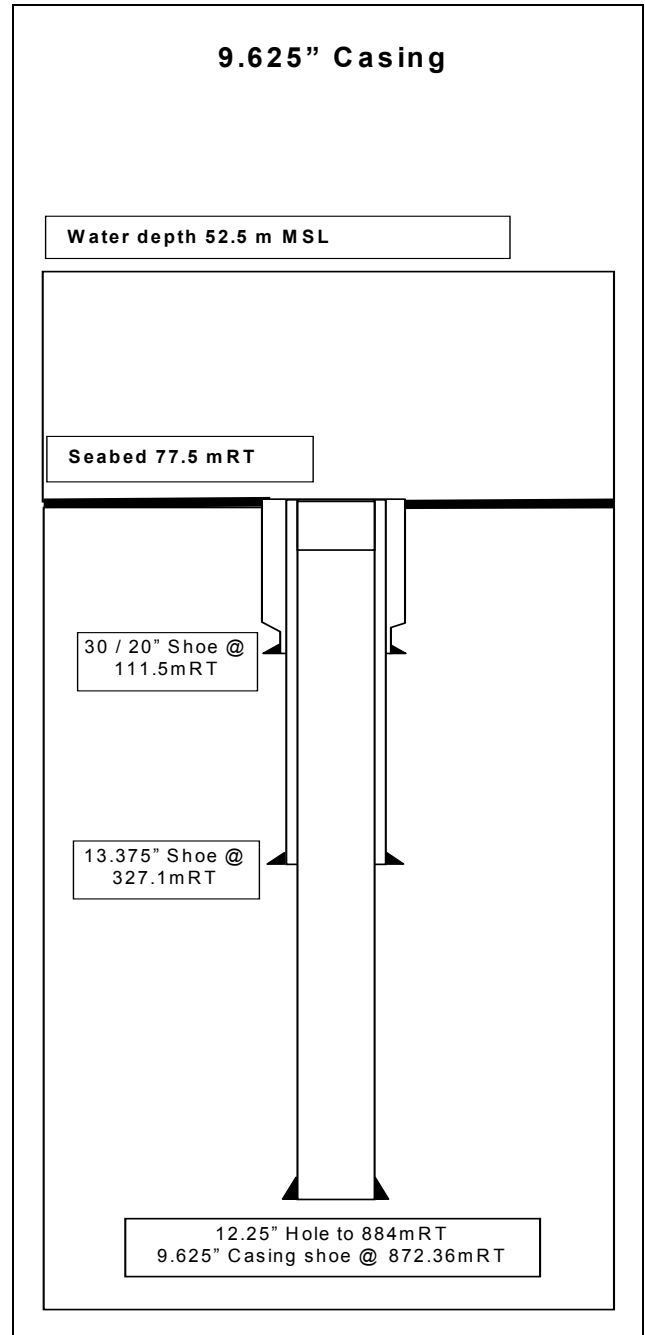
Cement Details:**Slurry**

Sacks 378
Type Class "G"
Mixwater 44bbls (drill water)
Additives Halad 413 20gal/10bbls

Weight 15.8ppg (1.9sg)
Yield 1.16 cuft/sx
Volume 78bbls

Summary

The 9.625" casing was run and landed successfully encountering no hole problems. Using mud, the casing was then circulated to 1.5 times its theoretical capacity, about 320bbls. Ten barrels of drill water was pumped into the string. After the cement lines were pressure-tested to 3,000psi, 60bbls of Superflush 102 spacer was pumped. A further 10bbls drill water was pumped before launching the bottom plug, which sheared out at 1250psi. The cement slurry was then mixed and pumped at 5.5bpm, amounting to 78bbls of 'G' Grade cement with a density of 1.89sg. The dart was then released to launch the top plug. The top plug sheared out at 2750psi. The cement unit displaced the slurry with 10bbls of drill water, followed by 180bbls mud. The plug bumped after the correct volume pumped with 1250psi pressure indicated. The casing was then pressure-tested to 3,000psi for 10 minutes. After bleeding off pressure and confirming that the floats had held, the running tool was disengaged and pulled to surface.



SECTION 3

SURVEYS

Patricia-2 Surveys

Measured Depth m	Inclination deg	Azimuth deg	Tool Type	Dogleg dptm	Vertical Depth	Vertical Section	Position North	Position East
75.98	0.00	0.00	TIE-IN	0.00	75.98	0.00	0.00	0.00
137.95	0.98	9.90	MWD	0.47	137.95	-0.40	0.52	0.09
165.42	1.05	16.31	MWD	0.15	165.41	-0.78	0.99	0.20
192.59	1.25	321.00	MWD	1.19	192.58	-0.98	1.46	0.09
221.64	2.72	262.28	MWD	2.40	221.61	-0.38	1.62	-0.79
250.74	6.36	248.26	MWD	3.90	250.62	1.75	0.93	-2.98
280.05	10.56	243.19	MWD	4.36	279.60	5.94	-0.89	-6.88
314.81	11.75	244.06	MWD	1.04	313.71	12.51	-3.87	-12.91
337.81	11.63	239.93	MWD	1.10	336.23	17.09	-6.06	-17.09
355.14	12.11	235.45	MWD	1.80	353.19	20.64	-7.96	-20.03
382.28	13.44	229.93	MWD	1.99	379.66	26.63	-11.61	-24.78
411.60	14.45	228.68	MWD	1.08	408.11	33.69	-16.22	-30.14
436.36	15.75	229.40	MWD	1.59	432.02	40.13	-20.44	-35.01
463.50	16.45	229.88	MWD	0.79	458.09	47.65	-25.32	-40.75
490.85	20.25	230.66	MWD	4.18	484.05	56.75	-29.92	-48.71
520.47	25.07	231.57	MWD	4.89	511.37	68.16	-37.08	-57.59
545.72	30.22	231.75	MWD	6.12	533.73	79.87	-44.34	-66.78
574.70	36.08	230.71	MWD	6.09	557.98	95.71	-54.27	-79.12
601.82	41.61	229.84	MWD	6.15	579.10	112.71	-65.14	-92.20
632.62	46.70	229.27	MWD	4.97	601.19	134.15	-79.06	-108.52
661.71	51.65	229.87	MWD	5.13	620.20	156.14	-93.33	-125.27
691.25	56.22	230.56	MWD	4.68	637.59	180.01	-108.60	-143.62
720.54	59.58	230.67	MWD	3.44	653.15	204.81	-124.34	-162.79
749.62	64.19	230.16	MWD	4.78	666.85	230.45	-140.68	-182.55
778.45	68.86	230.06	MWD	2.78	678.79	256.68	-157.51	-202.68
807.00	71.93	230.46	MWD	5.34	688.84	283.38	-174.59	-223.23
836.59	78.14	230.03	MWD	6.31	696.48	311.94	-192.86	-245.19
862.88	85.19	229.80	MWD	8.05	700.29	337.93	-209.60	-265.08
890.03	90.24	230.02	MWD	5.59	701.37	365.04	-227.06	-285.82
918.39	91.01	230.36	MWD	0.89	701.06	393.39	-245.22	-307.61
946.77	90.86	230.25	MWD	0.20	700.60	421.76	-263.34	-329.44
975.03	89.50	229.75	MWD	1.53	700.51	450.01	-281.51	-351.09
1002.56	90.63	230.40	MWD	1.42	700.48	477.53	-299.18	-372.20
1030.12	88.91	232.09	MWD	2.62	700.59	505.08	-316.43	-393.69
1056.95	87.97	231.93	MWD	1.07	701.32	531.90	-332.93	-414.83
1086.87	90.00	231.90	MWD	2.04	701.85	561.81	-351.38	-438.37
1112.97	90.60	232.56	MWD	1.03	701.71	587.91	-367.37	-459.01
1140.50	89.68	233.10	MWD	1.17	701.65	615.44	-384.00	-480.94
1170.64	89.99	233.29	MWD	0.36	701.74	645.56	-402.06	-505.08
1198.27	90.70	233.79	MWD	0.94	701.57	673.18	-418.48	-527.30
1224.64	89.59	231.69	MWD	2.70	701.50	699.54	-434.44	-548.28
1252.22	89.90	231.72	MWD	0.34	701.62	727.12	-451.53	-569.93
1281.21	90.98	232.67	MWD	1.49	701.40	756.10	-469.30	-592.84
1310.13	89.67	232.72	MWD	1.35	701.24	785.02	-486.82	-615.84
1339.08	89.82	233.39	MWD	0.72	701.37	813.96	-504.22	-638.97
1368.17	90.46	234.02	MWD	0.92	701.30	843.03	-521.44	-662.42

All data is in metres unless otherwise stated. Directions and coordinates are relative to Grid North. Vertical depths are relative to Well. Northings and Eastings are relative to Structure. The Dogleg Severity is in Degrees per 30 metres. Vertical Section is from Structure and calculated along an azimuth of 231.557° (Grid) Coordinate system is UTM Zone 55S on Australian Geodetic Datum 1966, Meters. Grid convergence at Surface is -0.893°. Based upon Minimum Curvature type calculations, at a Measured Depth of 1385.00m. The Bottom Hole Displacement is 859.86m, in the Direction of 231.834° (Grid).

SECTION 4

GEOLOGY & SHOWS

4.1 GEOLOGY AND SHOWS

Patricia-2

Geological logging for Patricia-2 commenced below the 13.375" casing shoe set at 327.1mRT from 334m to the total depth of 1385mRT.

During the course of the well, all gas equipment was checked and calibrated regularly, and spot samples were taken at drilling breaks and other changes in drilling parameters to better assess lithological changes. Samples were analysed for calcimetry as required by the OMV Wellsite Geologist.

The lithology of Patricia-2 is described below. For more detailed descriptions, see Appendix 1: Formation Evaluation Log.

SAMPLE INTERVALS

334 – 340	6m
340 – 350	5m
350 – 360	10m
360 – 370	5m
370 – 400	10m
400 – 430	5m
430 – 500	10m
500 – 620	5m
620 – 640	10m
640 – 670	5m
670 – 850	10m
850 – 890	5m
890 – 1380	10m
1380 – 1385	5m

36" HOLE SECTION

Seabed - 111.5mRT: Returns to Seabed

17.5" HOLE SECTION

111.5 - 334mRT: Returns to Seabed

12.25" HOLE SECTION 334 - 884mRT

FORMATION DESCRIPTIONS:

334 - 496m ARGILLACEOUS CALCILUTITE and ARGILLACEOUS CALCISILTITE

ARGILLACEOUS CALCILUTITE: Medium light grey to medium dark grey, occasionally very light grey. Dispersive to soft, occasionally firm, amorphous to subblocky, with abundant argillaceous material, trace to common fossil fragments, trace to rare Foraminifera, rare glauconite pellets and trace pyrite.

ARGILLACEOUS CALCISILTITE: Light grey to medium light grey, occasionally very light grey. Soft to firm, subblocky to blocky and occasionally amorphous with common to abundant argillaceous material, minor to trace fossil fragments, rare to trace Foraminifera, trace glauconite pellets and trace disseminated pyrite.

No oil shows were observed in this interval.

The section from 334 to 496m was drilled with an average ROP of 19.5m/hr and ranged from 4.7m/hr to 112.5m/hr. The calcimetry values for this interval ranged from 50-89% calcite with an average of 67% calcite. No dolomite was recorded.

Total Gas %	C ₁ ppm	C ₂ ppm	C ₃ ppm	iC ₄ ppm	nC ₄ ppm	iC ₅ ppm	nC ₅ ppm
0.00-0.02	0-155	-	-	-	-	-	-

496 - 762m: **MARL, ARGILLACEOUS CALCISILTITE and minor CALCARENITE**

MARL: Very light grey to medium grey, predominantly light grey to medium light grey. Soft, amorphous to subblocky and sticky in places, with trace glauconite, trace pyrite, trace fossil fragments and trace Foraminifera. Grades to CALCAREOUS CLAYSTONE in places.

ARGILLACEOUS CALCISILTITE: Light grey to medium grey, occasionally medium dark grey. Soft to firm, occasionally dispersive, subblocky, occasionally amorphous containing abundant argillaceous material, rare to trace glauconite, trace fossil fragments, trace Foraminifera and occasional trace pyrite.

CALCARENITE: Light grey, medium grey to medium dark grey. Friable to moderately hard, occasionally hard to very hard, very fine to fine, moderately well sorted with recrystallised calcite grains and rare calcite cement, trace glauconite, trace pyrite and trace fossil fragments.

No oil shows were observed in this interval.

The section from 496 to 762m was drilled with an average ROP of 16.6m/hr and ranged from 2.2m/hr to 80.4m/hr. The calcimetry values for this interval ranged from 44-82% calcite with an average of 59% calcite. No dolomite was recorded.

Total Gas %	C ₁ ppm	C ₂ ppm	C ₃ ppm	iC ₄ ppm	nC ₄ ppm	iC ₅ ppm	nC ₅ ppm
0.01-0.16	47-1529	-	-	-	-	-	-

762 - 815m **MARL and CALCAREOUS CLAYSTONE**

MARL: Light grey to medium dark grey, predominantly medium light grey. Soft, amorphous to blocky and sticky in places containing rare glauconite pellets, trace fossil fragments and trace Foraminifera. Grades to CALCAREOUS CLAYSTONE in places.

CALCAREOUS CLAYSTONE: Dusky yellow, light grey to medium grey, light olive grey. Soft to firm, predominantly soft, amorphous to subblocky, with trace glauconite, trace fossil fragments and trace Foraminifera.

No oil shows were observed in this interval.

The section from 762m to 815m was drilled with an average ROP of 27.9m/hr and ranged from 10.4m/hr to 77.7m/hr. The calcimetry values for this interval ranged from 28-64% calcite with an average of 36% calcite. No dolomite was recorded.

Total Gas %	C ₁ ppm	C ₂ ppm	C ₃ ppm	iC ₄ ppm	nC ₄ ppm	iC ₅ ppm	nC ₅ ppm
0.06-0.26	554-2355	-	-	-	-	-	-

**815 - 884m SILTY SANDSTONE, CALCAREOUS CLAYSTONE and minor
GLAUCONITIC SANDSTONE**

SILTY SANDSTONE: Moderate yellowish brown to dark yellowish brown, clear to translucent quartz grains. Very fine to fine, moderately hard with occasionally hard aggregates, subangular to subspherical grains, moderately well-sorted, containing rare glauconite pellets, rare mica flakes, rare to trace Foraminifera, trace fossil fragments and trace siderite. Grades to SILTSTONE in places. Good to fair inferred porosity.

GLAUCONITIC SANDSTONE: Medium green to dark green. Fine to medium grained glauconite, subrounded to subangular.

CALCAREOUS CLAYSTONE: Dusky yellow, light grey to medium grey, light olive grey. Soft to firm, predominantly soft, amorphous to subblocky with trace glauconite, trace fossil fragments and trace Foraminifera.

No oil shows were observed in this interval.

The section from 815m to 884m was drilled with an average ROP of 26.5m/hr and ranged from 10.6m/hr to 117.4/hr. The calcimetry values for this interval ranged from 2-28% calcite with an average of 7%. No dolomite was recorded.

Total Gas %	C ₁ ppm	C ₂ ppm	C ₃ ppm	iC ₄ ppm	nC ₄ ppm	iC ₅ ppm	nC ₅ ppm
0.29-12.47	2309-99532	-	-	-	-	-	-

8.5" HOLE SECTION 884 - 1385mRT

FORMATION DESCRIPTIONS:

884 - 1385m SILTY SANDSTONE and SANDSTONE

SILTY SANDSTONE: Moderate yellowish brown to dark yellowish brown, brownish black-olive black clear to translucent quartz grains. Very fine to fine, predominantly very fine, moderately hard with occasionally hard aggregates, subangular to subrounded, subspherical, moderately well sorted, containing rare mica flakes, trace glauconite, trace pyrite, rare to trace Foraminifera, trace fossil fragments and trace siderite. Grades to SILTSTONE in places. Good to fair inferred porosity.

SANDSTONE: Dusky brown to dusky yellowish brown, olive grey, clear to translucent quartz grains. Very fine to fine, predominantly very fine, loose, friable, rare hard aggregates. Subangular to subrounded, subspherical, moderately well sorted. Grading from 15 down to 5% silt and from 5 to 20% argillaceous material with rare mica flakes, trace glauconite, trace lithic fragments. Grades to ARGILLACEOUS SANDSTONE in places. Fair to good inferred porosity.

No hydrocarbon shows were observed in this interval.

The section from 884 to 1385m was drilled with an average ROP of 56.6/hr and ranged from 3.2m/hr to 120m/hr. The calcimetry values for this interval ranged from 0-2% calcite with an average of 1%. No dolomite was recorded.

Total Gas %	C ₁ ppm	C ₂ ppm	C ₃ ppm	iC ₄ ppm	NC ₄ ppm	iC ₅ ppm	nC ₅ ppm
0.12-7.95	1583-60017	-	-	-	-	-	-

4.2 Sampling Summary

OMV: Patricia-2
From:
BHI Unit 503
Location: *Ocean Bounty*
Telephone: 08 9221 6200

Shipped in Container No: OPC205

SAMPLE TYPE	No. Of Sets	COMPOSITION			PACKING DETAILS
		Sample Box No.	Depth Interval (m)		
			From	To	
Sets A,B,C,D,E:	5	1	334	470	Small boxes 1 - 8 packed in one Large Box for each set. 5 Large Boxes (total)
Washed & Air Dried Samples (100 g)		2	470	580	
		3	580	710	
		4	710	875	
		5	875	1050	
		6	1050	1240	
		7	1240	1385	
Set F: Samplex Trays	1	1	334	1385	
Set G: Mud Samples (5 samples), Drillwater (3 samples), Filtrate (2 samples)	1	1	334	1385	1 Large box
Set H: Misc paper work, logs and charts	1	1	-	-	1 Large box
Mud additives	2	-	-	-	Given to OMV WSG

DISTRIBUTION	Destination & Address	Attention of:
Washed & Dried (100g) Set A	OMV Australia Pty Ltd Sample Store c/o Kestrel Information Management Pty Ltd 39 McDowell Street Welshpool WA 6106 Tel: 08-9350 3170 Fax: 08-9350 3179	Attn: Barry Lloyd
Washed & Dried (100g) Set B: AGSO	AGSO Data Repositories Cnr Jerrabomberra Avenue and Hindmarsh Drive Symonston ACT 2609 Tel: 02-6249 9222 Fax: 02-6269 9903	Attn: Eddie Resiak
Washed & Dried (100g) Set C: VDNRE	VDNRE Core and Cuttings Store South Rd Werribee, Vic 3030 03 9412 5055	Attn:
Washed & Dried (100g) Set D: TRINITY	Trinity Gas Resources Pty Ltd Level 9 Chancery House 37 St Georges Tce Perth, WA 6000 Tel: 08 9225 5078	Attn: Tomoyuki Watanabe
Washed & Dried (100g) Set E: Santos	SANTOS Level 8 Santos House 91 King William St Adelaide, SA, 5000 08 82247128	Attn: Andy Pietsch
Samplex Trays, Set F	OMV Australia Pty Ltd Sample Store c/o Kestrel Information Management Pty Ltd 39 McDowell Street Welshpool WA 6106 Tel: 08-9350 3170 Fax: 08-9350 3179	Attn: Barry Lloyd
Set G: Mud Samples, Drillwater sample, Mud Additives, Mud Filtrate Sample	ACS Laboratories Pty Ltd 8 Cox Road Windsor Brisbane QLD 4030 Tel: 07-3357 1133	Attn: Ian Mangelsdorf
Set H: OMV Misc paper work, logs and charts	OMV Australia Pty Ltd Sample Store c/o Kestrel Information Management Pty Ltd 39 McDowell Street Welshpool WA 6106 Tel: 08-9350 3170 Fax: 08-9350 3179	Attn: Barry Lloyd

SECTION 5

PRESSURE EVALUATION

5.1 Pore Pressure Evaluation

An average sea water density of 1.03 sg was assumed as the normal saline pressure gradient for all calculations for Patricia-2. Using real time data, such as the hydrocarbon gas trend, lithology, flowline temperature, corrected Drilling Exponent (Dxc) data for conventional roller bits, constant drilling fluid parameters and MWD resistivity and gamma real-time data when available, pore pressure estimates were made during the drilling of Patricia-2. For more details, please refer to Appendix 3, "Pressure Summary Plot". All depths unless otherwise stated refer to the rotary table - RT.

36" Hole Section

The 36" hole was drilled from 77.5mRT to 111.5mRT. The section was short, characterised by largely unconsolidated sediments with returns dumped at the seabed. With an average penetration rate of about 57m/hr and low weight-on-bit, the plotted Dxc data curve contained widely scattered points, with no general trend discernible. However, it is unlikely that pore pressure would have increased over this shallow interval. The pore pressure was estimated to have remained normal at 1.03 sg EMD down to 111.5mRT.

17.5" Hole Section

The 17.5" hole was also drilled riserless from 111.5mRT to 334mRT. The rate of penetration was very fast in the upper section from 111.5 to 220mRT averaging 98m/hr through poorly consolidated sediments. The Dxc data points varied widely, but a general rightward trend could be observed. Between 220m and 280mRT, penetration rates marginally slowed to 67m/hr. The Dxc trend shifted to a near-vertical trend, possibly due to a minor change in lithology. More compact, indurated sediments below about 280m, with penetration rate slowing to about 55m/hr, displayed a normal trend of Dxc points. However, at this shallow depth it is unlikely that pore pressure would have increased and was estimated to have remained normal at 1.03 sg EMD down to 334mRT.

12.25" Hole Section

The 12.25" directional hole section was drilled alternating between sliding and rotating from 334m to 884mRT with a tricone bit, allowing useful Dxc values to be recorded when drilling conventionally. A KCl/PHPA/Glycol mud system was used. Starting with an initial weight of 1.06sg, the mud weight was allowed to increase to 1.08sg by 710m. A normal rightward Dxc trend, based on periods of conventional rotary drilling, was observed down to 760m, with average background gas levels remaining very low at about 0.04%. There was a slight leftward Dxc shift from 760 – 820m. This was due to a lithology change from mainly carbonates to more clayey formations. Background gas levels increased to about 0.28%, but there were no signs of increased pore pressure in this interval. No cavings were seen and real-time MWD resistivity data indicated normal pore pressure conditions. A further marked leftward shift in the Dxc curve occurred from 820m to the 9.625" casing point at 884m. Once again this was due to a marked lithology change from calcareous claystones to silty sandstones. Background gas levels rose steadily as the gas reservoir section was penetrated. A maximum gas peak of 12.5% at 843m was recorded, with gas levels remaining at about 4% down to section TD. There were no connection gases recorded in this hole section. Flowline temperatures showed a normal increasing gradient with depth. With no indications at all of any increased pore pressure, the pore pressure in this hole section was estimated to have remained normal at 1.03sg EMW. The mud weight was increased to 1.12 sg after section TD to reduce gas levels in the well.

8.5" Hole Section

The 8.5" hole section was drilled horizontally from 884m to well TD of 1385mRT at an angle from 89 – 91 degrees. The hole was maintained on a specific heading to laterally intersect target horizons in the subsurface structure. Consequently, only one metre of vertical distance was traversed, rendering Dxc analysis unusable. Drilling exponent analysis is based on predicted 'drillability' behaviours of sedimentary units over succeeding stratified layers. Recorded variations in gas levels and Dxc scatter points measured in this section could be directly quantified with the drilling rate and changes in the drilling parameters used. There were no abnormal pressure indicators observed in this section. Therefore, pore pressure was estimated to have remained normal at 1.03sg EMW. The mud weight was increased to 1.12sg to reduce overall gas levels in the well prior to pulling out of hole.

5.2 Fracture Pressure Evaluation

12.25" hole section

After drilling out the 13.375" casing shoe at 327.1m, rathole to 334m and three metres of 12.25" hole to 337mRT, a Formation Integrity Test (FIT) was performed. An applied force of 314psi at surface using mud weighted at 1.06sg yielded an equivalent mud weight (EMW) of 1.73sg without causing formation breakdown. This section was drilled with a KCl/PHPA/Glycol mud system weighted from 1.06 to 1.10sg. While drilling, an ECD range of 1.08 to 1.13sg was recorded. At no time did ECD values approach the FIT result. No significant downhole mud losses were seen in this section.

8.5" hole section

The 8.5" hole formation integrity test (FIT) at 872.36mRT using 1.07sg mud yielded a formation strength of 1.40sg Equivalent Mud Weight. The mud weight was increased from 1.07 - 1.10sg while drilling to the total measured depth of 1385mRT (701.1mTVD). There were no downhole mud losses seen while drilling this section although a maximum ECD of 1.29sg was exerted against the formation. The formation competency of 1.40sg EMW measured at the casing shoe was more than enough to prevent losses to the formation.

The following is a summary of the Formation Integrity Tests conducted in this well:

Hole Section	Hole MD/TVD	Casing	Shoe MD/TVD	Pressure	Mud Weight	EMW
12.25"	334 / 332.5m	13.375"	327.1 / 325.7m	314 psi	1.06 sg	1.73 sg
8.50"	887 / 701.1m	9.625"	872.36 / 700.7m	408 psi	1.07 sg	1.40 sg

TABLES


Table 1: Bit Run Summary

Tables

BAKER HUGHES		Bit Run Summary																													
INTEQ		Operator										Well Name					Location					Drilling Contractor					Rig				
		OMV Australia										Patricia-2					VIC/L21					Diamond Offshore					Ocean Bounty				
Bit No.	Bit Make, Type Serial No. / IADC Code	Bit Size in	Jets x 1/32"	TFA in/2	Depth In m	Depth Out m	Metres Drilled Metres	On Btm Hours Drilled Hours	ROP Avg m/hr	TBR x1000	Drilling parameter range										Grading										Remarks
											WOB klbs	SPP psi	RPM	Flow gpm	Jet Vel m/sec	DC/OH Vel m/min	MD sg	Bit Power hhp	Bit Loss %	I	O	D	L	B	G	O	R				
36" Hole Section																															
RR1	Smith DSJC w/ 36" Hole Opener	26	1 x 17, 3 x 24 36" HO, 4 x 22 jets	2.6607	77.5	111.5	34.0	0.6	56.7	2.6	3 - 12	710	60	910	33	6	1.03	49	29.1	Not Graded										36" Hole Section T.D.	
17.5" Hole Section																															
RR2	Security DBS XT1C 740844	17.5	3 x 24	1.3254	111.5	334	222.5	3.6	61.8	29.8	1 - 14	1220	96 - 169	781	59	28	1.03	136	44.0	Not Graded										Mud Motor, MWD	
12.25" Hole Section																															
NB3	Reed MHT 13GC NL 5007	12.25	3 x 15, 1 x 24	0.9595	334	884	550	29.0	19.0	428.6	1 - 35	1774	177 - 287	847	86.0	73.50	1.06 - 1.10	318.6	645.0	2	2	WT	A	E	1	NO	TD	Mud Motor, MWD			
8.5" Hole Section																															
NB4	Reed EHP41ALKDH M25484	8.50	3 x 14	0.4510	884	1385	501	13.4	37.4	166.5	1 - 49	1763	51 - 189	573	124.2	189.50	1.08 - 1.12	463.1	68.1	1	2	NO	G	E	I	WT	TD	Mud Motor, MWD 8.5" Hole Section T.D.			

Table 2: Bit Hydraulics Summary

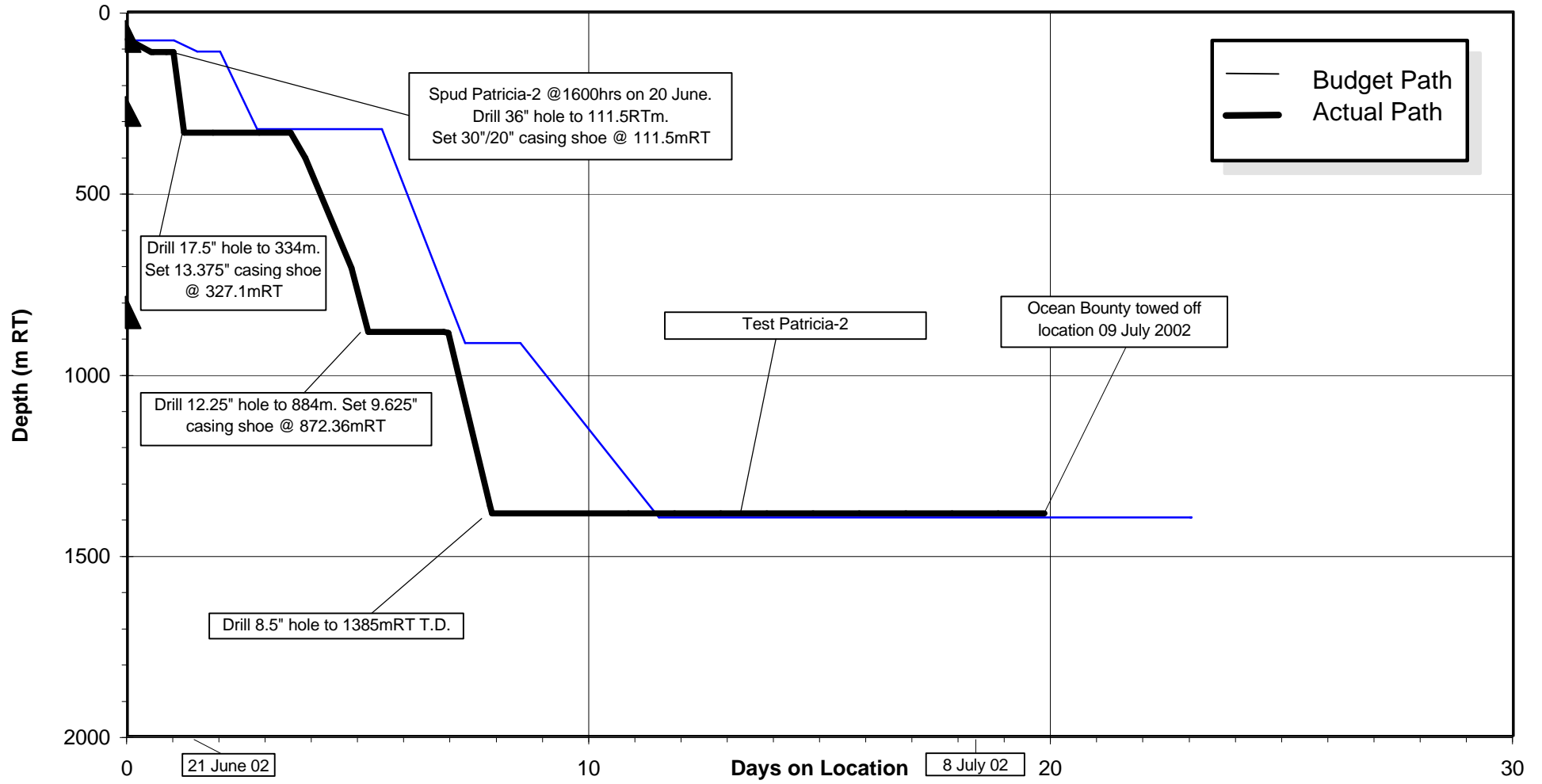
Tables

 <h2 style="text-align: center;">Bit Hydraulics Summary</h2>																					
Operator		Well Name				Location		Drilling Contractor				Rig									
OMV Australia		Patricia-2				VIC/L21		Diamond Offshore				Ocean Bounty									
Drillstring Abbreviations								Hydraulics Models													
N Normal		P Positive Displacement Motor		S Camco SRD Tool		T Halliburton TRACS Tool		Power Law Model used for drilling with Mud													
M MWD		A Adjustable Gauge Stabilizer		C Core		Bingham Model used for coring and drilling with sea water															
Bit No.	Depth (m)	Hole Size (in)	Jets (x 1/32")	Drill String Type	Mud Type	Mud Density (sg)	PV (cP)	YP (lb/100 ft sq)	Flow Rate (gpm)	Jet Vel (m/sec)	Impact Force (lbf)	Hydraulic Power (hhp)	Power/Area (hp/sq in)	Bit Loss (Psi)	Bit Loss (%)	Pipe Loss (Psi)	ECD (sg)	Annular Velocities			
																		DP OH (m/min)	DC OH (m/min)	DC Critical (m/min)	
36" Hole Section																					
RR1	111.5	36"	1 x 17, 3 x 24	N	SW/hi-vis sweeps	1.03	1	1	910	33.4	443.7	49.0	0.1	92	29.1	191	1.03	-	5.6	25.2	
17.5" Hole Section																					
RR2	334	17.50	3 x 24	N	SW/hi-vis sweeps	1.03	1	1	803	59.2	693.6	135.7	0.6	290	44.0	465	1.03	21.4	28.1	25.5	
12.25" Hole Section																					
NB3	884	12.25"	3 x 15, 1 x 24	N	KCL/PHPA/Glycol	1.10	15	27	872	88.9	1206.7	354.0	3.0	697	35.3	1230	1.14	50.3	75.7	176.3	
8.5" Hole Section																					
NB4	1385	8.50	3 x 14	N	FLO-PRO	1.07-1.12	11	32	573	124.2	1128.6	463.1	8.3	1386	68.1	473	1.29	164.9	160.4	189.5	



INTEQ

OMV Australia Patricia-2 Time vs. Depth Curve



APPENDICES

FORMATION EVALUATION LOG
1:500

DRILLING DATA PLOT

1:1000 & 1:2500

PRESSURE EVALUATION PLOT

1:2500

PRESSURE SUMMARY PLOT
1:5000



OMV Australia



***Compositional Analysis of
Surface Gas Samples from
Baleen-3 & Patricia-2
Victoria***

Prepared for
OMV Australia Pty Ltd

August 2002

File: AFL 2002-022 / AFL 2002-027

Reservoir Fluid Laboratory
Core Laboratories
Perth
Australia

7 August, 2002

OMV Australia Pty Ltd
Level 29, St Martin's Tower
44 St Georges Terrace
Perth 6000
WESTERN AUSTRALIA

Attention: Mr Andy Ion

Subject: Compositional Analysis
Well: Baleen-3 and Patricia-2
Location: Victoria
File: AFL 2002-022 & AFL 2002-027

Dear Andy,

Six 20 litre surface gas samples, three collected from each of the Baleen-3 and Patricia-2 wells, were received at our Perth laboratory for compositional analysis. Presented in the following report are the results of the analyses requested.

Core Laboratories appreciates this opportunity to be of service to OMV Australia Pty Ltd. Should you have any questions regarding this report, or if we may be of any further assistance, please feel free to contact me at your convenience.

Yours Faithfully,
For **CORE LABORATORIES**

Kevin Daken
Laboratory Supervisor

OMV Australia Pty Ltd
Baleen-3 & Patricia-2
AFL 2002-022 & AFL 2002-027

TABLE OF CONTENTS

	<u>Page</u>
Laboratory Procedures	a
 <u>Baleen-3</u>	
Sample Validity Check	1
Compositional Analysis of Surface Gas Samples	2-4
 <u>Patricia-2</u>	
Sample Validity Check	5
Compositional Analysis of Surface Gas Samples	6-8

OMV Australia Pty Ltd
Baleen-3 & Patricia-2
AFL 2002-022 & AFL 2002-027

LABORATORY PROCEDURES

Samples

Three 20-litre gas samples were collected from the separator gas line from each of the Baleen-3 and Patricia-2 wells and forwarded to our Perth Laboratory. As an initial quality check, the opening pressure for each sample was determined and compared to sampling conditions. These results, summarised on page 1 (Baleen-3) and 5 (Patricia-2), indicated the samples were suitable for compositional analysis.

Compositional Analysis

The hydrocarbon composition of each of the separator gas samples was analysed according to the GPA 2286 method. The resultant compositions are reported on pages 2 through 4 (Baleen-3) and 6 through 8 (Patricia-2).

Baleen-3

File: AFL 2002-022

Reservoir Fluid Laboratory
Core Laboratories
Perth
Australia

OMV Australia Pty Ltd
Baleen-3
AFL 2002-022

**PRELIMINARY CHECKS OF SAMPLE QUALITY
AND SUMMARY OF SAMPLES RECEIVED**

Surface Gas Samples					
Cylinder Number	Sampling Conditions		Laboratory Opening Conditions		
	psig	°F	psig	°F	Air Content (mol %)
1278-C1-F	259.6	54.5	258	66	0.32
2750-C1-F	303.8	38.0	303	66	0.15
1851-C1-F	303.8	38.1	298	66	2.35

All samples were subjected to compositional analysis.

OMV Australia Pty Ltd
Baleen-3
AFL 2002-022

COMPOSITION OF PRIMARY STAGE SEPARATOR GAS - 1278-C1-F
(by Programmed-Temperature, Capillary Chromatography)

Component	Mol %	Plant Products (GPM)	Liquid Density (gm/cc)	MW
Hydrogen Sulfide	* 0.00			
Carbon Dioxide	0.16		0.8172	44.010
Nitrogen	1.67		0.8086	28.013
Methane	98.08		0.2997	16.043
Ethane	0.09	0.024	0.3562	30.070
Propane	Trace	0.000	0.5070	44.097
iso-Butane	0.00	0.000	0.5629	58.123
n-Butane	0.00	0.000	0.5840	58.123
iso-Pentane	0.00	0.000	0.6244	72.150
n-Pentane	0.00	0.000	0.6311	72.150
Hexanes	0.00	0.000	0.6850	84.0
Heptanes	0.00	0.000	0.7220	96.0
Octanes	0.00	0.000	0.7450	107
Nonanes	0.00	0.000	0.7640	121
Decanes	0.00	0.000	0.7780	134
Undecanes	0.00	0.000	0.7890	147
Dodecanes	0.00	0.000	0.8000	161
Totals	100.00	0.024		

SAMPLING CONDITIONS

259.6 psia
54.5 °F

Gas Cylinder
1278-C1-F

Average Sample Properties

Critical Pressure, psia 664.1
Critical Temperature, °R 341.6
Average Molecular Weight 16.30
Calculated Gas Gravity (air = 1.000) ... 0.563

at 14.696 psia and 60 °F

Heating Value, Btu/scf dry gas*
Gross 992

Properties of Plus Fractions

Component	Mol %	Liquid Density (gm/cc)	Liquid API Gravity	MW

Note: * For H2S, 0.00 means less than 0.10 mol percent (cross-checked by other methods)
For all other components:
- trace means detected but less than 0.005 mol percent.
- 0.00 means less than or equal to 0.001 mol percent.

Note: Component properties assigned from literature.
* ref: Gas Producers & Suppliers Association (GPSA) Engineering Data Book

OMV Australia Pty Ltd
Baleen-3
AFL 2002-022

COMPOSITION OF PRIMARY STAGE SEPARATOR GAS - 2750-C1-F
(by Programmed-Temperature, Capillary Chromatography)

Component	Mol %	Plant Products (GPM)	Liquid Density (gm/cc)	MW
Hydrogen Sulfide	* 0.00			
Carbon Dioxide	0.17		0.8172	44.010
Nitrogen	1.82		0.8086	28.013
Methane	97.93		0.2997	16.043
Ethane	0.08	0.021	0.3562	30.070
Propane	Trace	0.000	0.5070	44.097
iso-Butane	0.00	0.000	0.5629	58.123
n-Butane	0.00	0.000	0.5840	58.123
iso-Pentane	0.00	0.000	0.6244	72.150
n-Pentane	0.00	0.000	0.6311	72.150
Hexanes	0.00	0.000	0.6850	84.0
Heptanes	0.00	0.000	0.7220	96.0
Octanes	0.00	0.000	0.7450	107
Nonanes	0.00	0.000	0.7640	121
Decanes	0.00	0.000	0.7780	134
Undecanes	0.00	0.000	0.7890	147
Dodecanes	0.00	0.000	0.8000	161
Totals	100.00	0.021		

SAMPLING CONDITIONS

303.8 psia
38.0 °F

Gas Cylinder
2750-C1-F

Average Sample Properties

Critical Pressure, psia	664.0
Critical Temperature, °R	341.4
Average Molecular Weight	16.32
Calculated Gas Gravity (air = 1.000) ...	0.563

at 14.696 psia and 60 °F

Heating Value, Btu/scf dry gas*	
Gross	991

Properties of Plus Fractions

Component	Mol %	Liquid Density (gm/cc)	Liquid API Gravity	MW

Note: * For H2S, 0.00 means less than 0.10 mol percent (cross-checked by other methods)
For all other components:
- trace means detected but less than 0.005 mol percent.
- 0.00 means less than or equal to 0.001 mol percent.

Note: Component properties assigned from literature.
* ref: Gas Producers & Suppliers Association (GPSA) Engineering Data Book

OMV Australia Pty Ltd
Baleen-3
AFL 2002-022

COMPOSITION OF PRIMARY STAGE SEPARATOR GAS - 1851-C1-F
(by Programmed-Temperature, Capillary Chromatography)

Component	Mol %	Plant Products (GPM)	Liquid Density (gm/cc)	MW
Hydrogen Sulfide	* 0.00			
Carbon Dioxide	0.17		0.8172	44.010
Nitrogen	1.79		0.8086	28.013
Methane	97.96		0.2997	16.043
Ethane	0.08	0.021	0.3562	30.070
Propane	Trace	0.000	0.5070	44.097
iso-Butane	0.00	0.000	0.5629	58.123
n-Butane	0.00	0.000	0.5840	58.123
iso-Pentane	0.00	0.000	0.6244	72.150
n-Pentane	0.00	0.000	0.6311	72.150
Hexanes	0.00	0.000	0.6850	84.0
Heptanes	0.00	0.000	0.7220	96.0
Octanes	0.00	0.000	0.7450	107
Nonanes	0.00	0.000	0.7640	121
Decanes	0.00	0.000	0.7780	134
Undecanes	0.00	0.000	0.7890	147
Dodecanes	0.00	0.000	0.8000	161
Totals	100.00	0.021		

SAMPLING CONDITIONS

303.8 psia
38.1 °F

Gas Cylinder
1851-C1-F

Average Sample Properties

Critical Pressure, psia 664.0
Critical Temperature, °R 341.4
Average Molecular Weight 16.32
Calculated Gas Gravity (air = 1.000) ... 0.563

at 14.696 psia and 60 °F

Heating Value, Btu/scf dry gas*
Gross 991

Properties of Plus Fractions

Component	Mol %	Liquid Density (gm/cc)	Liquid API Gravity	MW

Note: * For H2S, 0.00 means less than 0.10 mol percent (cross-checked by other methods)
For all other components:
- trace means detected but less than 0.005 mol percent.
- 0.00 means less than or equal to 0.001 mol percent.

Note: Component properties assigned from literature.

* ref: Gas Producers & Suppliers Association (GPSA) Engineering Data Book

Patricia-2

File: AFL 2002-027

Reservoir Fluid Laboratory
Core Laboratories
Perth
Australia

OMV Australia Pty Ltd
Patricia-2
AFL 2002-027

**PRELIMINARY CHECKS OF SAMPLE QUALITY
AND SUMMARY OF SAMPLES RECEIVED**

Surface Gas Samples					
Cylinder Number	Sampling Conditions		Laboratory Opening Conditions		
	psig	°F	psig	°F	Air Content (mol %)
2357-C1-F	365	37	375	66	0.11
3416-C1-F	364	37	340	66	0.14
0687-C1-F	296	48	315	66	0.10

All samples were subjected to compositional analysis.

OMV Australia Pty Ltd
Patricia-2
AFL 2002-027

COMPOSITION OF PRIMARY STAGE SEPARATOR GAS - 2357-C1-F
(by Programmed-Temperature, Capillary Chromatography)

Component	Mol %	Plant Products (GPM)	Liquid Density (gm/cc)	MW
Hydrogen Sulfide	* 0.00			
Carbon Dioxide	1.38		0.8172	44.010
Nitrogen	0.69		0.8086	28.013
Methane	97.58		0.2997	16.043
Ethane	0.34	0.091	0.3562	30.070
Propane	0.01	0.003	0.5070	44.097
iso-Butane	Trace	0.000	0.5629	58.123
n-Butane	Trace	0.000	0.5840	58.123
iso-Pentane	0.00	0.000	0.6244	72.150
n-Pentane	0.00	0.000	0.6311	72.150
Hexanes	0.00	0.000	0.6850	84.0
Heptanes	0.00	0.000	0.7220	96.0
Octanes	0.00	0.000	0.7450	107
Nonanes	0.00	0.000	0.7640	121
Decanes	0.00	0.000	0.7780	134
Undecanes	0.00	0.000	0.7890	147
Dodecanes	0.00	0.000	0.8000	161
Totals	100.00	0.094		

SAMPLING CONDITIONS

364 psia
37 °F

Gas Cylinder
2357-C1-F

Average Sample Properties

Critical Pressure, psia 670.9
Critical Temperature, °R 345.8
Average Molecular Weight 16.56
Calculated Gas Gravity (air = 1.000) ... 0.572

at 14.696 psia and 60 °F

Heating Value, Btu/scf dry gas*
Gross 992

Properties of Plus Fractions

Component	Mol %	Liquid Density (gm/cc)	Liquid API Gravity	MW

Note: * For H2S, 0.00 means less than 0.10 mol percent (cross-checked by other methods)
For all other components:
- trace means detected but less than 0.005 mol percent.
- 0.00 means less than or equal to 0.001 mol percent.

Note: Component properties assigned from literature.
* ref: Gas Producers & Suppliers Association (GPSA) Engineering Data Book

OMV Australia Ltd.
Patricia-2
AFL 2002-027

COMPOSITION OF PRIMARY STAGE SEPARATOR GAS - 3416-C1-F
(by Programmed-Temperature, Capillary Chromatography)

Component	Mol %	Plant Products (GPM)	Liquid Density (gm/cc)	MW
Hydrogen Sulfide	* 0.00			
Carbon Dioxide	1.38		0.8172	44.010
Nitrogen	0.69		0.8086	28.013
Methane	97.59		0.2997	16.043
Ethane	0.33	0.088	0.3562	30.070
Propane	0.01	0.003	0.5070	44.097
iso-Butane	Trace	0.000	0.5629	58.123
n-Butane	Trace	0.000	0.5840	58.123
iso-Pentane	0.00	0.000	0.6244	72.150
n-Pentane	0.00	0.000	0.6311	72.150
Hexanes	0.00	0.000	0.6850	84.0
Heptanes	0.00	0.000	0.7220	96.0
Octanes	0.00	0.000	0.7450	107
Nonanes	0.00	0.000	0.7640	121
Decanes	0.00	0.000	0.7780	134
Undecanes	0.00	0.000	0.7890	147
Dodecanes	0.00	0.000	0.8000	161
Totals	100.00	0.091		

SAMPLING CONDITIONS

364 psia
37 °F

Gas Cylinder
3416-C1-F

Average Sample Properties

Critical Pressure, psia 670.9
Critical Temperature, °R 345.7
Average Molecular Weight 16.56
Calculated Gas Gravity (air = 1.000) ... 0.572

at 14.696 psia and 60 °F

Heating Value, Btu/scf dry gas*
Gross 992

Properties of Plus Fractions

Component	Mol %	Liquid Density (gm/cc)	Liquid API Gravity	MW

Note: * For H2S, 0.00 means less than 0.10 mol percent (cross-checked by other methods)
For all other components:
- trace means detected but less than 0.005 mol percent.
- 0.00 means less than or equal to 0.001 mol percent.

Note: Component properties assigned from literature.
* ref: Gas Producers & Suppliers Association (GPSA) Engineering Data Book

OMV Australia Ltd.
Patricia-2
AFL 2002-027

COMPOSITION OF PRIMARY STAGE SEPARATOR GAS - 0678-C1-F
(by Programmed-Temperature, Capillary Chromatography)

Component	Mol %	Plant Products (GPM)	Liquid Density (gm/cc)	MW
Hydrogen Sulfide	* 0.00			
Carbon Dioxide	1.37		0.8172	44.010
Nitrogen	0.70		0.8086	28.013
Methane	97.59		0.2997	16.043
Ethane	0.33	0.033	0.3562	30.070
Propane	0.01	0.003	0.5070	44.097
iso-Butane	Trace	0.000	0.5629	58.123
n-Butane	Trace	0.000	0.5840	58.123
iso-Pentane	0.00	0.000	0.6244	72.150
n-Pentane	0.00	0.000	0.6311	72.150
Hexanes	0.00	0.000	0.6850	84.0
Heptanes	0.00	0.000	0.7220	96.0
Octanes	0.00	0.000	0.7450	107
Nonanes	0.00	0.000	0.7640	121
Decanes	0.00	0.000	0.7780	134
Undecanes	0.00	0.000	0.7890	147
Dodecanes	0.00	0.000	0.8000	161
Totals	100.00	0.036		

SAMPLING CONDITIONS

295 psia
48 °F

Gas Cylinder
0678-C1-F

Average Sample Properties

Critical Pressure, psia 670.9
Critical Temperature, °R 345.7
Average Molecular Weight 16.56
Calculated Gas Gravity (air = 1.000) ... 0.572

at 14.696 psia and 60 °F

Heating Value, Btu/scf dry gas*
Gross 992

Properties of Plus Fractions

Component	Mol %	Liquid Density (gm/cc)	Liquid API Gravity	MW

Note: * For H2S, 0.00 means less than 0.10 mol percent (cross-checked by other methods)
For all other components:
- trace means detected but less than 0.005 mol percent.
- 0.00 means less than or equal to 0.001 mol percent.

Note: Component properties assigned from literature.
* ref: Gas Producers & Suppliers Association (GPSA) Engineering Data Book



OMV Australia



EXPRO GROUP AUSTRALIA PTY LTD
EDGE - SURFACE DATA ACQUISITION



Company	OMV Australia Pty Ltd.
Exal Job Number	J02-188
Well	Patricia-2
Dates	30/6 - 06/07/2002
Rig/platform	Ocean Bounty

Exal Engineers	M. Donald / N. Dowdell
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WELL TEST REPORT
E.D.G.E. DATA

Client : OMV Australia Pty Ltd.

Well : Patricia-2

Date : 30/6 - 06/07/2002

Country : Australia

Rig/Platform : Ocean Bounty

Field : VIC/L21

Test : Completion

Exal Job Number : J02-188

Formation : Gurnard

Perforation Interval : n/a

Client Engineer : A. Ion

Exal Engineer : M. Donald / N. Dowdell

1. Introduction
 2. Sequence of Events
 3. Diagrams: Test Set-up PFD
 Rig Layout
 4. Glossary of Terms
 Transducer Information
 Gas / Oil Calculation Formulae
- Patricia-2 Completion Test**
5. Wellhead Data / Plots - Complete Test
 6. Separator Data / Plots - Flow Periods
 7. Oil & Gas Calculation Factors - Flow Periods
- Additional Information**
8. Sample Sheet Information
 9. Data discs / Index sheets

INTRODUCTION

Expro Group CHS(E) Division provided the EDGE Data Acquisition system on Expro Welltest equipment on Well No. Patricia-2 from 30th June - 6th July 2002 for a Completion Test.

The test objectives were:

- i) To determine the initial static reservoir pressure.
- ii) To clean up the well to remove residual mud/filtrate and promote flow contribution from total length while minimising skin damage and plugging of the sand screens.
- iii) To determine rate dependant well bore skin factor.
- iv) To determine well deliverability.
- v) To estimate average formation permeability.
- vi) To obtain representative fluid samples.
- vii) To secure the well for future operations.
- viii) To conduct operations in accordance with OMV Australia, Diamond Offshore and Expro Group safety procedures.

The testing phase consisted of:

- (a) Displacing the well bore to Nitrogen.
- (b) Pressure Build Up # 1.
- (c) Initial Clean Up flow.
- (d) Pressure Build Up # 2.
- (e) Step-Rate Test (Low, Medium & High Rates).
- (f) Pressure Build Up # 3.



Sequence of Events

Client	OMV Australia Pty Ltd
Well No.	Patricia-2
Test No.	Completion
Location	Ocean Bounty
Start Date	30/06 - 01/07/2002
Country	Australia
Field	VIC/L21
Job Number	J02/188
Formation	Gurnard
Exal Engineer	M. Donald / N. Dowdell
Client Engineer	A. Ion
Perforations	n/a

Client	OMV Australia Pty Ltd	Exal Engineer	M. Donald / N. Dowdell
Well No.	Patricia-2	Location	Ocean Bounty
Test No.	Completion	Start Date	30/06 - 01/07/2002

Time Comment

29/06/02

14:00:00 Commenced pressure testing complete surface equipment.
14:00:00 Flushed surface lines to Fwd and Aft booms until clean.
15:05:00 Test #1 - Aft oil and gas lines to boom burners to 500psi.
15:17:00 Test #2 - Full equipment body test to oil and gas diverter manifolds to 500psi.
15:22:00 Test #3 - Full equipment body test to oil and gas diverter manifolds to 1,000psi.
15:33:00 Test #4 - Separator body test and gas, oil and water outlet valves to 500psi.
15:38:00 Test #5 - Separator body test and gas, oil and water outlet valves to 1,000psi.
15:52:00 Test #6 - Separator inlet and bypass valves to 500psi.
15:57:00 Test #7 - Separator inlet and bypass valves to 1,000psi.
16:10:00 Test #8 - Oil diverter manifold to 500psi.
16:15:00 Test #9 - Oil diverter manifold to 1,000psi.
16:26:00 Test #10 - Heater coil and bypass valves to 500psi.
16:31:00 Test #11 - Heater coil and bypass valves to 1,000psi.
16:46:00 Test #12 - Heater inlet and bypass valve to 500psi.
16:51:00 Test #13 - Heater inlet and bypass valve to 1,000psi.
17:05:00 Test #14 - Downstream choke manifold valves to 500psi.
17:10:00 Test #15 - Downstream choke manifold valves to 1,000psi.
17:23:00 Test #16 - Upstream choke manifold valves to 500psi.
17:28:00 Test #17 - Upstream choke manifold valves to 3,500psi.
17:45:00 Test #18 - Sandtrap valve to 500psi.
17:50:00 Test #19 - Sandtrap valve to 3,500psi.
18:03:00 Test #20 - ESD valve to 500psi.
18:08:00 Test #21 - ESD valve to 3,500psi.
18:20:00 All pressure tests successfully completed.

30/06/02

01:00:00 Set SLZXP hanger/packer. Commenced 1,500psi annular pressure test to confirm packer set.
01:30:00 Good test. Commenced operations to shear off and release HR running tool.
01:50:00 Commenced pulling out of hole with drill pipe and HR running tool.
06:30:00 Commenced running in hole with 5-1/2" 17ppf NK3SB tubing
10:48:00 Commenced making up TRSCSSV.
11:31:00 Completed making up TRSCSSV. Pressure tested hydraulic line to 5,000psi.
11:45:00 Good test. Continued running in hole with tubing.
14:00:00 Commenced making up Lower Landing String Assembly (LLSA).
14:30:00 Picked up and made up TH to THRT to SSTT. Attached umbilical. Flushed and checked lines.
15:21:00 Function tested THRT latch, un-latch, softland, vent/test and TH lock.
15:35:00 Latched TH in THRT
15:37:00 Pressure tested umbilical to 5,000psi.
15:42:00 Good test. Pressure tested control line to TRSCSSV to 5,000psi.
15:46:00 Good test. Unlocked TH. Opened lower and upper ball valves in SSTT.
16:15:00 Commenced running in hole with 7" landing string.
18:00:00 Commenced rigging up circulating head.
18:50:00 Tagged Polished Bore receptacle. Pulled up and broke out landing joint.
19:00:00 Prepared to rig up coil tubing lifting frame.
19:30:00 Conducted JSA on drill floor for Coil Tubing Lift Frame (CTLF) and Expro flowhead.
19:45:00 Commenced rigging up CTLF.
20:45:00 Completed rigging up CTLF. Picked up and made up flowhead.
21:15:00 Commenced rigging up Coflexip hose to flow wing. Rigged up casing elevator and bails.
22:20:00 Made up 7" casing landing joint to landing string.
23:00:00 Rigged up hydraulic control lines and cement pump line to kill wing on flowhead. Rigged up coil tubing lines from rig manifold.
16:30:00 Brine returns at surge tank - 67.7bbls (calculated rate - 125b/d).

Client	OMV Australia Pty Ltd	Exal Engineer	M. Donald / N. Dowdell
Well No.	Patricia-2	Location	Ocean Bounty
Test No.	Completion	Start Date	30/06 - 01/07/2002

Time Comment

01/07/02

01:10:00 Opened production wing valve on flowhead.
01:10:00 Open choke manifold to surge tank and lo-torque valve.
01:23:00 Commenced flushing from cement unit across flowhead to choke manifold and down landing string.
01:29:00 Closed SSLV. Continued pumping through to Expro choke manifold.
01:37:00 Good returns at choke manifold. Stopped pumping and closed in at choke manifold.
01:42:00 Commenced pressure test on SSLV against Expro choke manifold to 3,500psi.
01:47:00 Commenced logging on EdgeX surface data acquisition system.
01:52:00 Good test bled off pressure. Opened SSLV.
02:02:00 Closed SSTT upper ball valve.
02:06:00 Commenced pressure test on SSTT against Expro choke manifold to 3,500psi.
02:11:00 Bled off pressure due to leak at lo-torque valve. Functioned lo-torque valve.
02:13:00 Commenced pressure test on SSTT against Expro choke manifold to 3,500psi.
02:15:00 Bled off pressure due to leak at lo-torque valve.
02:16:00 Replaced lo-torque valve.
02:23:00 Commenced pressure test on SSTT against Expro choke manifold to 3,500psi.
02:27:00 Bled off pressure due to leak at lo-torque valve. Replaced lo-torque valve.
02:32:00 Commenced pressure test on SSTT against Expro choke manifold to 3,500psi.
02:44:00 Good test bled off pressure.
02:53:00 Opened SSTT upper ball prior to circulating filtered brine.
03:10:00 Commenced rigging up Expro wireline BOP's and lubricator.
04:00:00 Commenced conventional circulation of inhibited brine.
04:48:00 Completed conventional circulation.
05:03:00 Landed out completion in Subsea Tree (SST). Good indication of helix alignment.
05:13:00 Vented TRSCSSV control line at Expro panel. Vented soft-land on THRT.
05:26:00 Closed middle pipe rams.
05:54:00 Pressured up on annulus beneath middle pipe rams to 3,500psi. Good test.
06:06:00 Locked tubing hanger. Good indication on lock monitor on control panel.
06:10:00 Pressured up on annulus above tubing hanger to to 3,500psi to confirm seal. Good test.
06:36:00 Bled down tubing hanger lock pressure.
06:44:00 Commenced overpull test.
06:45:00 Overpull test failed.
06:46:00 Pressured up on THRT unlock line to 3,000psi. THRT not locked.
07:00:00 Closed middle pipe rams.
07:09:00 Pressured up on THRT lock line to 4,500psi. THRT failed to lock.
07:11:00 Pressured up on THRT lock line to 3,000psi. THRT failed to lock.
07:16:00 Bled off pressure on THRT lock line and re-pressured to 4,000psi. THRT failed to lock.
07:26:00 Bled off pressure on THRT lock line and re-pressured to 3,000psi. THRT failed to lock.
07:27:00 Bled off pressure on THRT lock monitor.
07:30:00 Functioned SST choke with ROV.
10:00:00 Pressured up below middle pipe rams and above tubing hanger to assist in engaging lock.
11:35:00 Opened middle pipe rams. Closed lower annular bag. Pressured up annulus to 3,500psi.
11:40:00 Attempted to set tubing hanger. Failed.
12:45:00 Pulled back on landing string 4 meters. Pressured up THRT unlock line to 2,000psi.
12:50:00 Pressured up on THRT soft land to 3,000psi.
12:55:00 Opened TRSCSSV.
13:05:00 Closed TRSCSSV.
13:10:00 Landed out completion in SST.
13:15:00 Launched ROV to open TRSCSSV isolation valve and cavity seal monitor valve on SST.
14:26:00 ROV opened TRSCSSV isolation valve on SST.
14:42:00 ROV opened cavity seal monitor valve on SST.
14:46:00 Bled off THRT soft land line.
14:49:00 Closed lower annular bag. Pressured up beneath annular bag to 3,500psi.

Client	OMV Australia Pty Ltd	Exal Engineer	M. Donald / N. Dowdell
Well No.	Patricia-2	Location	Ocean Bounty
Test No.	Completion	Start Date	30/06 - 01/07/2002

Time Comment

01/07/02

14:55:00 Bled off pressure below bag.
14:57:00 Pressured up on THRT lock line to 3,000psi. Opened lower annular bag.
15:00:00 Bled off pressure on THRT lock line. Conducted 20,000lbs overpull test.
15:05:00 Good test. Released overpull.
15:08:00 Closed middle pipe rams.
15:10:00 Commenced pressure testing tubing hanger and packer seal.
15:30:00 Held wireline JSA.
15:35:00 Commenced rigging up Expro wireline.
16:20:00 Observed polished bore receptacle (PBR) leaking.
17:30:00 Commenced rigging down Expro wireline.
17:30:00 Prepared to rig down CTLF and flow head.
18:50:00 Pressured up tubing hanger unlock. Applied 30,000lbs over pull.
19:01:00 Applied neutral weight on tubing hanger, increased unlock to 40,000psi, applied 50,000lbs over pull.
19:07:00 Bled off tubing hanger unlock, pressured up tubing hanger lock to 2000psi.
19:07:00 Bled off tubing hanger lock, bled off THRT latch.
19:10:00 Pressured up tubing hanger unlock to 4,000psi, pressured up THRT latch to 3,000psi.
19:15:00 Applied 65,000lbs over pull.
19:25:00 Reduced over pull to 40,000lbs above string WT - total 270,000lbs.
19:28:00 Tubing hanger released.
19:35:00 Commenced rigging down flowhead.
22:16:00 Laid down CTLF, continue pulling out of hole with landing string and tubing hanger.
22:42:00 Bled off SSLV open line.
23:20:00 Tubing hanger at surface. Commenced breaking out tubing hanger from tubing.

02/07/02

00:10:00 Unlatched SSTT assembly from tubing hanger.
00:20:00 Layed out SSTT assembly on catwalk.
00:35:00 Broke out tubing hanger. Commenced redress of tubing hanger.
03:15:00 Completed re-assembly of tubing hanger with added pup joints.
03:35:00 Made up TRSCSSV to tubing hanger and landed out in rotary table.
03:52:00 Picked up and made up LLSA and SSTT.
04:20:00 Completed function testing LLSA.
04:20:00 Commenced pressure testing TRSCSSV control line to 5,000psi. Good test.
04:25:00 Commenced running in hole with LLSA.
05:02:00 Picked up and made up SSLV assembly. Repaired damage to SSLV umbilical line.
06:20:00 Continued running in hole with landing string.
06:24:00 Stopped Edge logging system for maintenance.
06:28:00 Re-started Edge logging system.
06:55:00 Rigged down 7" elevators. Rigged up 5" drill pipe elevators.
07:15:00 Picked up CTLF unit to derrick.
07:40:00 Completed making up Expro flowhead. Made up coflexip to production wing. Made up line from cement unit to kill wing.
08:55:00 Landed out completion in Subsea Tree (SST).
09:21:00 Locked tubing hanger. Good indication at control panel.
09:25:00 Commenced 50,000lbs overpull test. Good test, released overpull.
09:33:00 Commenced pressure annulus below tubing hanger to 1,500psi.
09:45:00 Good test. Bled off pressure.
09:51:00 Commenced pressure annulus below tubing hanger to 3,500psi.
10:03:00 Good test. Bled off pressure.
10:15:00 Commenced rigging up Expro wireline to pull isolation sleeve and drift completion.
11:30:00 Completed rigging up Expro wireline.
11:55:00 Commenced pressure testing against flow head master valve and SSTT upper ball to 2,000psi.

Client	OMV Australia Pty Ltd	Exal Engineer	M. Donald / N. Dowdell
Well No.	Patricia-2	Location	Ocean Bounty
Test No.	Completion	Start Date	30/06 - 01/07/2002

Time Comment

02/07/02

12:03:00 Good test. Commenced pressure testing Expro wireline lubricator to 3,500psi.
12:13:00 Good test. Bled off pressure.
12:15:00 Closed flowhead kill wing valve. Pressure tested from cement unit to kill wing valve to 3,500psi.
12:20:00 Repaired leaks to lo-torque valve.
12:45:00 Good test. Opened kill wing valve. Opened production wing valve.
12:47:00 Commenced pressure testing SSTT upper ball to choke manifold to 3,500psi.
12:57:00 Good test. Bled off pressure. Opened SSTT upper ball.
13:00:00 Expro wireline commenced running in hole with GS pulling tool to retrieve isolation sleeve.
13:07:00 Expro wireline at surface. Closed Swab valve on flowhead.
13:10:00 Closed SSLV. Bled off lubricator pressure.
13:20:00 Broke out lubricator and laid out GS pulling tool and isolation sleeve.
13:25:00 Installed 4.5" gauge ring onto wireline toolstring. Stabbed lubricator and pressure tested to 3,500psi.
13:38:00 Good test. Bled off pressure.
13:40:00 Opened SSLV. Opened swab valve on flowhead. Commenced running in hole with gauge ring.
13:55:00 Expro wireline at surface. Closed SSLV. Closed swab valve on flowhead.
14:00:00 Commenced rigging down Expro wireline.
14:20:00 Completed rigging down Expro wireline.
14:30:00 BJ Coiled tubing commenced rigging up injector head.
23:00:00 Completed rigging up coiled tubing.
23:23:00 Closed production wing valve for pressure test.
23:30:00 Held JSA prior to coiled tubing operations.
23:50:00 Commenced flushing coiled tubing lines prior to pressure test.

03/07/02

00:26:00 Commenced pressure testing coil to 300psi.
00:29:00 Good test. Increased pressure to 3,000psi.
00:40:00 Good test.
00:43:00 Commenced slowly bleeding off line pressure.
00:50:00 Completed bleed down.
01:08:00 Opened kill wing valve on flowhead.
01:15:00 Opened flowhead master valve and locked open.
01:16:00 Opened SSLV.
01:21:00 Coil tubing commenced running in hole at 10m per minute. Open at Expro choke manifold on 64/64th adjustable choke to surge tank.
01:38:00 Coil tubing at depth 66mRT. Continued running in hole at 5m per minute.
01:56:00 Coil tubing at depth 200mRT. Continued running in hole at 6m per minute.
02:00:00 Coil tubing stopped at 221mRT due to problem with SRO pressure gauge.
02:28:00 Rectified SRO pressure gauge fault. Coiled tubing continued running in hole.
03:09:00 Coiled tubing stopped at 600mRT to allow nitrogen unit to cool down.
03:22:00 Coiled tubing commenced pumping nitrogen at 400 scf/m.
03:37:00 Coiled tubing at 786mRT. Increased adjustable choke to 72/64".
03:42:00 Expro observed brine returns at surge tank.
03:44:00 Total brine returns at surge tank - 1.3bbbls (calculated rate - 1877b/d).
03:45:00 Total brine returns at surge tank - 2.3bbbls (calculated rate - 1440b/d).
03:45:00 Coiled tubing stopped at 892mRT. Continued pumping nitrogen at 400scf/m.
03:47:00 Coiled tubing notified of leak in the injector.
03:50:00 Coil tubing pulled back up hole 20m due to suspected nitrogen loss in screens.
03:50:00 Total brine returns at surge tank - 28.3bbbls (calculated rate - 8640b/d).
03:53:00 Coil tubing at depth 872m. Continued pumping.
03:53:00 Decreased adjustable choke to 64/64".
03:56:00 Total brine returns at surge tank - 32.7bbbls (calculated rate - 6048b/d).
03:58:00 Coil tubing commenced pulling out of hole to 792mRT. Continued to pump at 400scf/m.

Client	OMV Australia Pty Ltd	Exal Engineer	M. Donald / N. Dowdell
Well No.	Patricia-2	Location	Ocean Bounty
Test No.	Completion	Start Date	30/06 - 01/07/2002

Time Comment

03/07/02

04:00:00 Decreased adjustable choke to 58/64".
04:00:00 Total brine returns at surge tank - 43bbbls (calculated rate - 2880b/d).
04:03:00 Expro observed nitrogen at surface with brine.
04:05:00 Total brine returns at surge tank - 57.7bbbls (calculated rate - 4320b/d).
04:10:00 Increased adjustable choke to 64/64".
04:10:00 Total brine returns at surge tank - 71bbbls (calculated rate - 3600b/d).
04:13:00 Coil tubing at depth 792mRT.
04:15:00 Decreased adjustable choke to 58/64".
04:15:00 Total brine returns at surge tank - 77bbbls (calculated rate - 3456b/d).
04:17:00 Decreased adjustable choke to 52/64".
04:19:00 Total brine returns at surge tank - 90.5bbbls (calculated rate - 3312b/d).
04:20:00 Coil tubing reduced nitrogen pump rate to 300scf/m.
04:24:00 Increased adjustable choke to 56/64".
04:25:00 Increased adjustable choke to 58/64".
04:25:00 Total brine returns at surge tank - 91.7bbbls (calculated rate - 720b/d).
04:29:00 Decreased adjustable choke to 50/64".
04:30:00 Coil tubing commenced running in hole to 892mRT continued flowing at 300scf/m.
04:30:00 Total brine returns at surge tank - 96.1bbbls (calculated rate - 1728b/d).
04:32:00 Increased adjustable choke to 52/64".
04:35:00 Increased adjustable choke to 56/64".
04:35:00 Total brine returns at surge tank - 97.4bbbls (calculated rate - 1872b/d).
04:36:00 Increased adjustable choke to 58/64".
04:37:00 Increased adjustable choke to 64/64".
04:40:00 Coiled tubing at depth 892mRT.
04:40:00 Total brine returns at surge tank - 99.8bbbls (calculated rate - 864b/d).
04:45:00 Total brine returns at surge tank - 106.6bbbls (calculated rate - 1728b/d).
04:50:00 Total brine returns at surge tank - 109.4bbbls (calculated rate - 2592b/d).
04:54:00 Coil tubing stopped pumping nitrogen and Expro choke shut in.
04:57:00 Total brine returns at surge tank - 119.4bbbls (calculated rate - 1152b/d).
07:00:00 Function tested ESD system in presence of OMV company men.
07:05:00 Held JSA on drill floor prior to opening well.
07:14:00 Opened well to aft flare boom via 20/64" adjustable choke.
07:15:00 Gradually increased adjustable choke to 24/64".
07:17:00 Gradually increased adjustable choke to 46/64".
07:18:00 Gradually increased adjustable choke to 64/64". Hydrocarbon gas to surface.
07:20:00 Brine to surface.
07:23:00 Well slugging brine and gas.
07:29:00 Well flowing predominantly nitrogen.
07:37:00 Hydrocarbon gas to surface. Commenced gradually increasing adjustable choke to 72/64".
07:40:00 Gradually increased adjustable choke to 76/64".
07:42:00 Gradually increased adjustable choke to 80/64".
07:51:00 Manipulated adjustable choke to prevent plugging.
07:52:00 Gradually increased adjustable choke to 100/64".
07:54:00 Gradually increased adjustable choke to 112/64". Well slugging hydrocarbon gas and brine.
08:00:00 Gradually increased adjustable choke to 128/64".
08:00:00 BS&W = 100% brine, trace sediment, pH = 6 and Chloride contents from refractometer 117,000ppm.
08:00:00 Draeger showed 1.2 % CO2 by volume & 0 ppm H2S. S.G. of produced water - 1.095 @ 57F.
08:30:00 Well flowing predominantly brine, trace sediment.
09:00:00 BS&W = 100% brine, trace sediment, pH = 6 and Chloride contents from refractometer 120,000ppm.
09:00:00 Draeger showed 1.5 % CO2 by volume & 0 ppm H2S. S.G. of produced water - 1.096 @ 52F.
09:24:00 Inspected sand catcher for debris. Retrieved traces of rust fragments.
09:39:00 Diverted flow via test separator.

Client	OMV Australia Pty Ltd	Exal Engineer	M. Donald / N. Dowdell
Well No.	Patricia-2	Location	Ocean Bounty
Test No.	Completion	Start Date	30/06 - 01/07/2002

Time Comment

03/07/02

09:50:00 Installed 3.750" orifice plate into gas meter run.
09:51:00 Raised orifice plate.
09:53:00 Installed 3.500" orifice plate into gas meter run.
10:00:00 BS&W = 100% brine pH = 6 and Chloride contents from refractometer 120,000ppm.
10:00:00 Draeger showed 1.4 % CO2 by volume & 0 ppm H2S. S.G. of produced gas - 0.571. S.G. of produced water - 1.096 @ 52F.
10:15:00 Brine returns at surge tank - 5.25bbbls (calculated rate - 504b/d).
10:30:00 Brine returns at surge tank - 10.5bbbls (calculated rate - 504b/d).
10:45:00 Brine returns at surge tank - 15.7bbbls (calculated rate - 499b/d).
11:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 120,000ppm.
11:00:00 Draeger showed 1.4 % CO2 by volume & 0 ppm H2S. S.G. of produced gas - 0.576. S.G. of produced water - 1.096 @ 52F.
11:00:00 Brine returns at surge tank - 19.8bbbls (calculated rate - 394b/d).
11:15:00 Brine returns at surge tank - 24.2bbbls (calculated rate - 422b/d).
11:30:00 Brine returns at surge tank - 27.7bbbls (calculated rate - 336b/d).
11:45:00 Brine returns at surge tank - 30.9bbbls (calculated rate - 302b/d).
12:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 225,000ppm.
12:00:00 Draeger showed 1.4 % CO2 by volume & 0 ppm H2S. S.G. of produced gas - 0.576. S.G. of produced water - 1.095 @ 53F.
12:00:00 Brine returns at surge tank - 33.9bbbls (calculated rate - 288b/d).
12:05:00 Inspected sand catcher for debris. Retrieved traces of rust fragments.
12:15:00 Brine returns at surge tank - 36.1bbbls (calculated rate - 211b/d).
12:30:00 Brine returns at surge tank - 38.4bbbls (calculated rate - 221b/d).
12:45:00 Brine returns at surge tank - 40.8bbbls (calculated rate - 230b/d).
13:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.
13:00:00 Draeger showed 1.5 % CO2 by volume & 0 ppm H2S. S.G. of produced gas - 0.578. S.G. of produced water - 1.093 @ 53F.
13:00:00 Brine returns at surge tank - 43.4bbbls (calculated rate - 250b/d).
13:15:00 Brine returns at surge tank - 45.5bbbls (calculated rate - 202b/d).
13:30:00 Brine returns at surge tank - 47.8bbbls (calculated rate - 221b/d).
13:45:00 Brine returns at surge tank - 50.0bbbls (calculated rate - 211b/d).
14:00:00 BS&W = 100% brine pH = 6 and Chloride contents from refractometer 110,000ppm.
14:00:00 Draeger showed 1.5 % CO2 by volume & 0 ppm H2S. S.G. of produced gas - 0.578. S.G. of produced water - 1.093 @ 52F.
14:00:00 Brine returns at surge tank - 51.75bbbls (calculated rate - 168b/d).
14:15:00 Brine returns at surge tank - 53.5bbbls (calculated rate - 168b/d).
14:30:00 Brine returns at surge tank - 55.2bbbls (calculated rate - 163b/d).
14:45:00 Brine returns at surge tank - 57.1bbbls (calculated rate - 182b/d).
15:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 115,000ppm.
15:00:00 Draeger showed 1.5 % CO2 by volume & 0 ppm H2S. S.G. of produced gas - 0.582. S.G. of produced water - 1.094 @ 48F.
15:00:00 Brine returns at surge tank - 58.9bbbls (calculated rate - 173b/d).
15:00:00 Sample No. 1-1 (0.5 ltr water) and 1-2 (5 ltr water) taken from separator water line.
15:15:00 Brine returns at surge tank - 60.4bbbls (calculated rate - 144b/d).
15:30:00 Brine returns at surge tank - 61.9bbbls (calculated rate - 144b/d).
15:45:00 Brine returns at surge tank - 63.4bbbls (calculated rate - 144b/d).
16:00:00 BS&W = 100% brine pH = 6 and Chloride contents from refractometer 115,000ppm.
16:00:00 Draeger showed 1.5 % CO2 by volume & 0 ppm H2S. S.G. of produced gas - 0.580. S.G. of produced water - 1.094 @ 48F.
16:00:00 Brine returns at surge tank - 64.9bbbls (calculated rate - 144b/d).
16:15:00 Brine returns at surge tank - 66.4bbbls (calculated rate - 144b/d).
16:30:00 Brine returns at surge tank - 67.7bbbls (calculated rate - 125b/d).

Client	OMV Australia Pty Ltd	Exal Engineer	M. Donald / N. Dowdell
Well No.	Patricia-2	Location	Ocean Bounty
Test No.	Completion	Start Date	30/06 - 01/07/2002

Time Comment

03/07/02

16:45:00 Brine returns at surge tank - 69.1bbbls (calculated rate - 134b/d).
17:00:00 BS&W = 100% brine pH = 6 and Chloride contents from refractometer 115,000ppm.
17:00:00 Brine returns at surge tank - 70.3bbbls (calculated rate - 115b/d).
17:00:00 Sample No. 1-3 (0.5 ltr water) and 1-4 (5 ltr water) taken from separator water line.
17:15:00 Brine returns at surge tank - 71.5bbbls (calculated rate - 115b/d).
17:30:00 Brine returns at surge tank - 72.7bbbls (calculated rate - 115b/d).
17:34:00 Raised orifice plate. Diverted flow via choke manifold bypass 3" line.
17:35:00 Installed 3.500" orifice plate into gas meter run.
17:45:00 Brine returns at surge tank - 73.8bbbls (calculated rate - 106b/d).
18:00:00 S.G. of produced gas - 0.580.
18:00:00 Brine returns at surge tank - 75bbbls (calculated rate - 115b/d).
18:15:00 Brine returns at surge tank - 76.4bbbls (calculated rate - 134b/d).
18:30:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.
18:30:00 Brine returns at surge tank - 77.5bbbls (calculated rate - 106b/d).
18:45:00 Brine returns at surge tank - 78.6bbbls (calculated rate - 106b/d).
19:00:00 Brine returns at surge tank - 79.7bbbls (calculated rate - 106b/d).
19:00:00 Sample No. 1-5 (0.5 ltr water) and 1-6 (5 ltr water) taken from separator water line.
19:15:00 Brine returns at surge tank - 80.7bbbls (calculated rate - 95.9b/d).
19:30:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.
19:30:00 Brine returns at surge tank - 81.7bbbls (calculated rate - 95.9b/d).
19:45:00 Brine returns at surge tank - 82.9bbbls (calculated rate - 115b/d).
20:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.
20:00:00 Draeger showed 1.5 % CO2 by volume & 0 ppm H2S.
20:00:00 S.G. of produced water - 1.087 @ 60°F. S.G. of produced gas - 0.584.
20:00:00 Brine returns at surge tank - 84.1bbbls (calculated rate - 115b/d).
20:15:00 Brine returns at surge tank - 85.1bbbls (calculated rate - 96b/d).
20:30:00 Brine returns at surge tank - 86.1bbbls (calculated rate - 96b/d).
20:45:00 Brine returns at surge tank - 87.1bbbls (calculated rate - 96b/d).
21:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.
21:00:00 Brine returns at surge tank - 88.1bbbls (calculated rate - 96b/d).
21:00:00 Sample No. 1-7 (0.5 ltr water) and 1-8 (5 ltr water) taken from separator water line.
21:15:00 Brine returns at surge tank - 88.9bbbls (calculated rate - 77b/d).
21:30:00 Brine returns at surge tank - 89.4bbbls (calculated rate - 48b/d).
21:45:00 Brine returns at surge tank - 90.7bbbls (calculated rate - 125b/d).
22:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.
22:00:00 S.G. of produced gas - 0.586. S.G. of produced water - 1.088 @ 59°F.
22:00:00 Brine returns at surge tank - 91.4bbbls (calculated rate - 67b/d).
22:15:00 Brine returns at surge tank - 92.2bbbls (calculated rate - 77b/d).
22:30:00 Brine returns at surge tank - 93.1bbbls (calculated rate - 86b/d).
22:45:00 Brine returns at surge tank - 93.9bbbls (calculated rate - 77b/d).
23:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.
23:00:00 Brine returns at surge tank - 94.5bbbls (calculated rate - 58b/d).
23:00:00 Sample No. 1-9 (0.5 ltr water) and 1-10 (4 ltr water) taken from separator water line.
23:15:00 Brine returns at surge tank - 95.3bbbls (calculated rate - 77b/d).
23:30:00 Brine returns at surge tank - 95.9bbbls (calculated rate - 58b/d).
23:45:00 Brine returns at surge tank - 96.5bbbls (calculated rate - 67b/d).

04/07/02

00:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.
00:00:00 Draeger showed 1.5 % CO2 by volume & 0 ppm H2S.
00:00:00 S.G. of produced gas - 0.584. S.G. of produced water - 1.087 @ 59°F.
00:00:00 Brine returns at surge tank - 97.3bbbls (calculated rate - 77b/d).

Client	OMV Australia Pty Ltd	Exal Engineer	M. Donald / N. Dowdell
Well No.	Patricia-2	Location	Ocean Bounty
Test No.	Completion	Start Date	30/06 - 01/07/2002

Time Comment

04/07/02

00:15:00 Brine returns at surge tank - 98.3bbbls (calculated rate - 96b/d).
00:30:00 Brine returns at surge tank - 98.9bbbls (calculated rate - 58b/d).
00:45:00 Brine returns at surge tank - 99.5bbbls (calculated rate - 58b/d).
01:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.
01:00:00 Brine returns at surge tank - 100.4bbbls (calculated rate - 86b/d).
01:00:00 Sample No. 1-11 (0.5 ltr water) and 1-12 (4 ltr water) taken from separator water line.
01:15:00 Brine returns at surge tank - 100.9bbbls (calculated rate - 48b/d).
01:27:00 Bled down scrubber pots on differential cell due to pots being full of water.
01:30:00 Brine returns at surge tank - 101.6bbbls (calculated rate - 67b/d).
01:45:00 Brine returns at surge tank - 102.6bbbls (calculated rate - 96b/d).
02:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.
02:00:00 S.G. of produced gas - 0.586. S.G. of produced water - 1.088 @ 58°F.
02:00:00 Brine returns at surge tank - 103bbbls (calculated rate - 38b/d).
02:15:00 Brine returns at surge tank - 103.9bbbls (calculated rate - 86b/d).
02:30:00 Brine returns at surge tank - 104.3bbbls (calculated rate - 38b/d).
02:45:00 Brine returns at surge tank - 105.2bbbls (calculated rate - 86b/d).
03:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 109,000ppm.
03:00:00 Brine returns at surge tank - 105.8bbbls (calculated rate - 58b/d).
03:00:00 Sample No. 1-13 (0.5 ltr water) and 1-14 (4 ltr water) taken from separator water line.
03:15:00 Brine returns at surge tank - 106.4bbbls (calculated rate - 58b/d).
03:30:00 Brine returns at surge tank - 107.4bbbls (calculated rate - 96b/d).
03:42:00 Raised orifice plate to check Barton differential cell - drained excess water from scrubbers.
03:45:00 Brine returns at surge tank - 107.7bbbls (calculated rate - 29b/d).
03:47:00 Installed 3.500" orifice plate into meter run.
04:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.
04:00:00 Draeger showed 1.5 % CO2 by volume & 0 ppm H2S.
04:00:00 S.G. of produced gas - 0.586. S.G. of produced water - 1.088 @ 58°F.
04:00:00 Brine returns at surge tank - 108.3bbbls (calculated rate - 58b/d).
04:15:00 Brine returns at surge tank - 109.2bbbls (calculated rate - 86b/d).
04:30:00 Brine returns at surge tank - 109.8bbbls (calculated rate - 58b/d).
04:45:00 Brine returns at surge tank - 110bbbls (calculated rate - 19b/d).
05:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.
05:00:00 Sample No. 1-15 (0.5 ltr water) and 1-16 (4 ltr water) taken from separator water line.
05:00:00 Brine returns at surge tank - 110.7bbbls (calculated rate - 67b/d).
05:15:00 Brine returns at surge tank - 111.2bbbls (calculated rate - 48b/d).
05:30:00 Brine returns at surge tank - 111.9bbbls (calculated rate - 67b/d).
05:45:00 Brine returns at surge tank - 112.5bbbls (calculated rate - 58b/d).
06:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.
06:00:00 Brine returns at surge tank - 112.8bbbls (calculated rate - 29b/d).
06:15:00 Brine returns at surge tank - 113.5bbbls (calculated rate - 67b/d).
06:28:00 BJ coiled tubing conducted pick up weight test. Brief pressure increase observed at choke manifold.
06:30:00 Brine returns at surge tank - 114bbbls (calculated rate - 48b/d).
06:45:00 Brine returns at surge tank - 114.6bbbls (calculated rate - 58b/d).
07:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.
07:00:00 Brine returns at surge tank - 115bbbls (calculated rate - 38b/d).
07:00:00 Sample No. 1-17 (0.5 ltr water) and 1-18 (4 ltr water) taken from separator water line.
07:15:00 Brine returns at surge tank - 115.5bbbls (calculated rate - 48b/d).
07:30:00 BJ coiled tubing commenced running in hole to 1365mRT for pressure/temperature log #1.
07:30:00 Brine returns at surge tank - 116.1bbbls (calculated rate - 58b/d).
07:45:00 Brine returns at surge tank - 116.6bbbls (calculated rate - 48b/d).
08:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.
08:00:00 Draeger showed 1.5 % CO2 by volume & 0 ppm H2S.

Client	OMV Australia Pty Ltd	Exal Engineer	M. Donald / N. Dowdell
Well No.	Patricia-2	Location	Ocean Bounty
Test No.	Completion	Start Date	30/06 - 01/07/2002

Time Comment

04/07/02

08:00:00 S.G. of produced gas - 0.582. S.G. of produced water - 1.085 @ 59°F.
08:00:00 Brine returns at surge tank - 117.1bbbls (calculated rate - 48b/d).
08:15:00 Brine returns at surge tank - 117.7bbbls (calculated rate - 58b/d).
08:19:00 BJ coiled tubing on depth at 1365mRT.
08:30:00 Brine returns at surge tank - 118bbbls (calculated rate - 29b/d).
08:33:00 BJ coiled tubing commenced pulling out of hole to 892mRT.
08:45:00 Brine returns at surge tank - 118.4bbbls (calculated rate - 38b/d).
09:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.
09:00:00 Brine returns at surge tank - 119bbbls (calculated rate - 58b/d).
09:15:00 Brine returns at surge tank - 119.8bbbls (calculated rate - 77b/d).
09:20:00 BJ coiled tubing on depth at 892mRT.
09:30:00 Brine returns at surge tank - 120.4bbbls (calculated rate - 58b/d).
09:45:00 Brine returns at surge tank - 120.9bbbls (calculated rate - 48b/d).
10:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.
10:00:00 S.G. of produced gas - 0.582. S.G. of produced water - 1.085 @ 59°F.
10:00:00 Brine returns at surge tank - 121.5bbbls (calculated rate - 58b/d).
10:15:00 Brine returns at surge tank - 121.9bbbls (calculated rate - 38b/d).
10:30:00 Brine returns at surge tank - 122.5bbbls (calculated rate - 58b/d).
10:45:00 Brine returns at surge tank - 122.9bbbls (calculated rate - 38b/d).
10:55:00 Lifted orifice plate. Closed in well at choke manifold.
11:00:00 Inspected junk catcher. Observed small amounts of rock gravel. Samples supplied to OMV representative.
11:00:00 Total Brine returns at surge tank - 123.4bbbls.
15:30:00 Well opened to Aft flare boom via 16/64" adjustable choke.
15:31:00 Increased adjustable choke to 20/64".
15:32:00 Increased adjustable choke to 24/64".
15:34:00 Increased adjustable choke to 28/64".
15:35:00 Increased adjustable choke to 32/64".
15:36:00 Diverted flow via 32/64" fixed choke. Diverted flow via test separator.
16:00:00 Diverted flow via 36/64" adjustable choke.
16:01:00 Increased adjustable choke to 40/64". Ceased methanol injection upstream of choke manifold.
16:03:00 Increased adjustable choke to 44/64".
16:07:00 Diverted flow via 40/64" fixed choke.
17:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.
17:00:00 S.G. of produced gas - 0.582. S.G. of produced water - 1.085 @ 59°F.
17:30:00 Exal commenced taking 1st PVT sample No. 1-19 (gas - bottle No. 2357-C1-F).
17:45:00 Completed taking 1st PVT sample.
17:45:00 Exal commenced taking 2nd PVT sample No. 1-20 (gas - bottle No. 3416-C1-F).
18:00:00 Completed taking 2nd PVT sample.
18:00:00 BS&W showed dry gas.
18:00:00 S.G. of produced gas - 0.584.
19:00:00 BS&W showed dry gas.
20:00:00 Raised orifice plate.
20:00:00 Diverted flow through 44/64" adjustable choke.
20:01:00 Increased adjustable choke to 48/64".
20:03:00 Increased adjustable choke to 50/64".
20:05:00 Increased adjustable choke to 56/64".
20:07:00 Increased adjustable choke to 60/64".
20:11:00 Increased adjustable choke to 62/64".
20:12:00 Increased adjustable choke to 66/64".
20:15:00 Brine returns at surge tank - 124.2bbbls (calculated rate - 77b/d).
20:18:00 Diverted flow via 64/64" fixed choke.
20:23:00 Installed 3.000" orifice plate into meter run.

Client	OMV Australia Pty Ltd	Exal Engineer	M. Donald / N. Dowdell
Well No.	Patricia-2	Location	Ocean Bounty
Test No.	Completion	Start Date	30/06 - 01/07/2002

Time Comment

04/07/02

20:25:00 Raised orifice plate.
20:28:00 Installed 3.25" orifice plate into meter run.
20:30:00 Brine returns at surge tank - 125bbbls (calculated rate - 77b/d).
21:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 100,000ppm.
21:00:00 S.G. of produced gas - 0.586.
21:30:00 Brine returns at surge tank - 125.4bbbls (calculated rate - 38b/d).
21:45:00 Brine returns at surge tank - 126.2bbbls (calculated rate - 77b/d).
22:00:00 Brine returns at surge tank - 126.7bbbls (calculated rate - 48b/d).
23:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 100,000ppm.
23:00:00 Draeger showed 1.5 % CO2 by volume & 0 ppm H2S.
23:00:00 Exal commenced taking 3rd PVT sample No. 1-21 (gas - bottle No. 0687-C1-F).
23:00:00 Sample No. 1-22 (0.5 ltr water) and 1-23 (4 ltr water) taken from separator water line.
23:00:00 Brine returns at surge tank - 127.2bbbls (calculated rate - 48b/d).
23:15:00 Completed taking 3rd PVT sample.
23:15:00 Brine returns at surge tank - 127.4bbbls (calculated rate - 19b/d).
23:30:00 Brine returns at surge tank - 127.5bbbls (calculated rate - 10b/d).

05/07/02

00:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 100,000ppm.
00:00:00 S.G. of produced gas - 0.586.
00:00:00 S.G. of produced water - 1.083 @ 52°F.
00:00:00 Brine returns at surge tank - 128bbbls (calculated rate - 48b/d).
00:15:00 Brine returns at surge tank - 128.2bbbls (calculated rate - 19b/d).
00:30:00 Brine returns at surge tank - 128.7bbbls (calculated rate - 48b/d).
00:45:00 Brine returns at surge tank - 129.1bbbls (calculated rate - 38b/d).
01:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 92,000ppm.
01:00:00 S.G. of produced gas - 0.586.
01:00:00 S.G. of produced water - 1.080 @ 54°F.
01:00:00 Brine returns at surge tank - 129.3bbbls (calculated rate - 19b/d).
01:15:00 Brine returns at surge tank - 129.4bbbls (calculated rate - 10b/d).
01:30:00 Brine returns at surge tank - 129.8bbbls (calculated rate - 38b/d).
01:45:00 Brine returns at surge tank - 130.2bbbls (calculated rate - 38b/d).
01:59:00 Raised orifice plate.
02:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 96,000ppm.
02:00:00 Diverted flow through 66/64" adjustable choke.
02:01:00 Increased adjustable choke to 70/64".
02:02:00 Increased adjustable choke to 74/64".
02:03:00 Increased adjustable choke to 78/64".
02:04:00 Increased adjustable choke to 82/64".
02:05:00 Increased adjustable choke to 86/64".
02:07:00 Increased adjustable choke to 90/64".
02:08:00 Increased adjustable choke to 94/64".
02:09:00 Increased adjustable choke to 98/64".
02:10:00 Increased adjustable choke to 102/64".
02:11:00 Increased adjustable choke to 106/64".
02:13:00 Increased adjustable choke to 110/64".
02:17:00 Increased adjustable choke to 128/64".
02:19:00 Opened bypass valve on choke manifold.
02:20:00 Diverted flow via choke manifold bypass 3" line.
02:24:00 Installed 3.750" orifice plate into meter run.
02:30:00 Brine returns at surge tank - 131.5bbbls (calculated rate - 125b/d).
02:45:00 Brine returns at surge tank - 132.1bbbls (calculated rate - 58b/d).

Client	OMV Australia Pty Ltd	Exal Engineer	M. Donald / N. Dowdell
Well No.	Patricia-2	Location	Ocean Bounty
Test No.	Completion	Start Date	30/06 - 01/07/2002

Time Comment

05/07/02

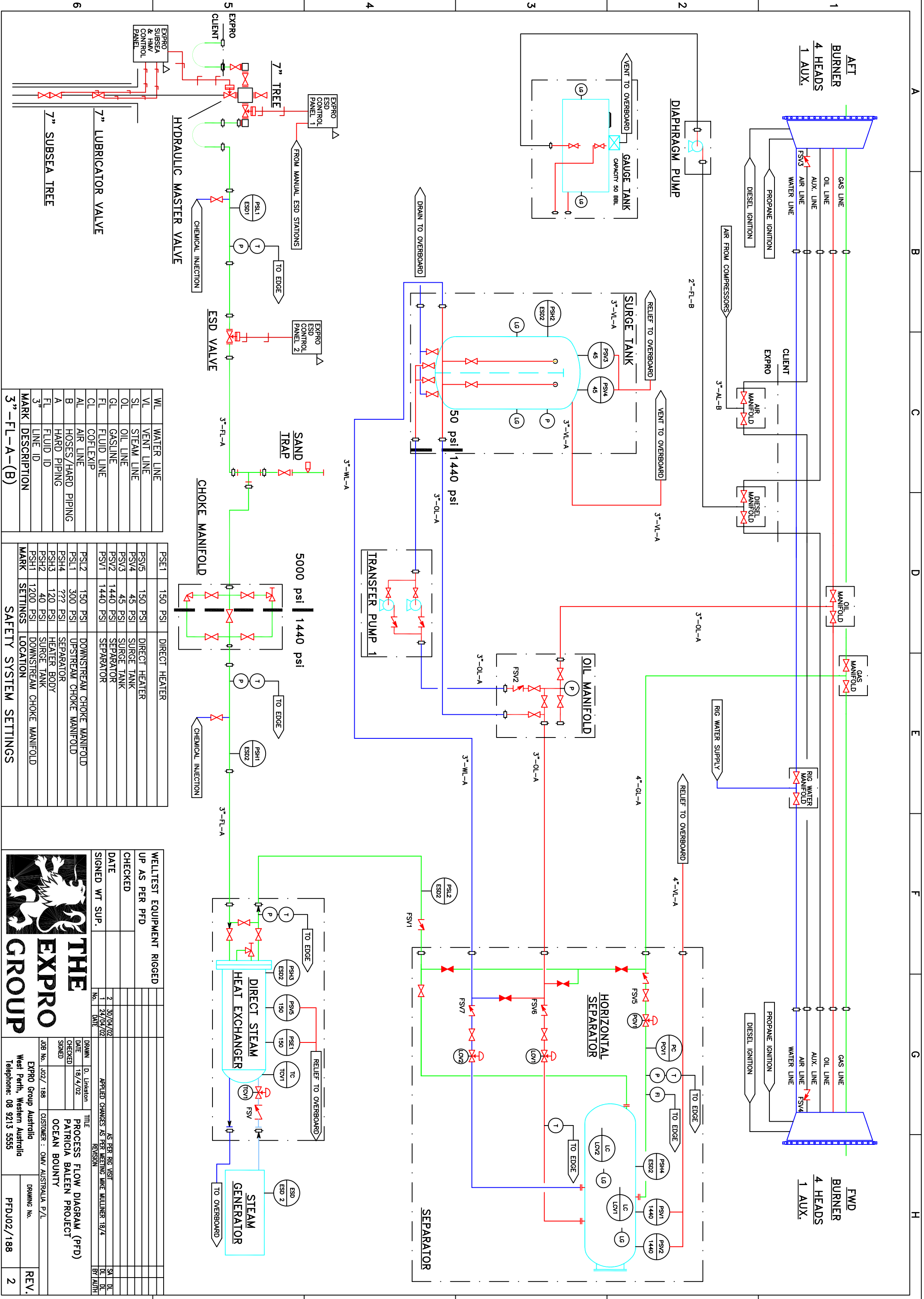
03:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 100,000ppm.
03:00:00 S.G. of produced gas - 0.586. S.G. of produced water - 1.082 @ 58°F.
03:00:00 Draeger showed 1.3 % CO2 by volume & 0 ppm H2S.
03:00:00 Brine returns at surge tank - 132.9bbbls (calculated rate - 77b/d).
03:15:00 Brine returns at surge tank - 133.5bbbls (calculated rate - 58b/d).
03:30:00 Brine returns at surge tank - 134.3bbbls (calculated rate - 77b/d).
03:45:00 Brine returns at surge tank - 134.5bbbls (calculated rate - 19b/d).
04:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 100,000ppm.
04:00:00 S.G. of produced gas - 0.586. S.G. of produced water - 1.078 @ 61°F.
04:00:00 Brine returns at surge tank - 134.8bbbls (calculated rate - 29b/d).
04:15:00 Brine returns at surge tank - 135.1bbbls (calculated rate - 29b/d).
04:30:00 Brine returns at surge tank - 135.4bbbls (calculated rate - 29b/d).
04:45:00 Brine returns at surge tank - 135.9bbbls (calculated rate - 48b/d).
05:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 100,000ppm.
05:00:00 Brine returns at surge tank - 136.3bbbls (calculated rate - 38b/d).
05:15:00 Brine returns at surge tank - 136.9bbbls (calculated rate - 58b/d).
05:30:00 Brine returns at surge tank - 137.3bbbls (calculated rate - 38b/d).
05:45:00 Brine returns at surge tank - 137.8bbbls (calculated rate - 48b/d).
06:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 99,000ppm.
06:00:00 Brine returns at surge tank - 138.3bbbls (calculated rate - 38b/d).
06:15:00 Brine returns at surge tank - 138.8bbbls (calculated rate - 48b/d).
06:30:00 Brine returns at surge tank - 139.1bbbls (calculated rate - 29b/d).
06:45:00 Brine returns at surge tank - 139.5bbbls (calculated rate - 38b/d).
07:00:00 BS&W = 100% brine pH = 6 and Chloride contents from refractometer 100,000ppm.
07:00:00 S.G. of produced gas - 0.586. S.G. of produced water - 1.082 @ 63°F.
07:00:00 Brine returns at surge tank - 139.8bbbls (calculated rate - 29b/d).
07:15:00 Brine returns at surge tank - 140bbbls (calculated rate - 19b/d).
07:30:00 Brine returns at surge tank - 142bbbls (calculated rate - 19b/d).
07:45:00 Brine returns at surge tank - 142.4bbbls (calculated rate - 38b/d).
08:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 100,000ppm.
08:00:00 Brine returns at surge tank - 142.8bbbls (calculated rate - 38b/d).
08:15:00 Brine returns at surge tank - 143.2bbbls (calculated rate - 38b/d).
08:30:00 Brine returns at surge tank - 143.5bbbls (calculated rate - 29b/d).
08:45:00 Brine returns at surge tank - 144.1bbbls (calculated rate - 58b/d).
09:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 100,000ppm.
09:00:00 S.G. of produced gas - 0.582. S.G. of produced water - 1.082 @ 63°F.
09:00:00 Brine returns at surge tank - 144.6bbbls (calculated rate - 48b/d).
09:15:00 Brine returns at surge tank - 144.8bbbls (calculated rate - 19b/d).
09:30:00 Brine returns at surge tank - 145.2bbbls (calculated rate - 38b/d).
09:45:00 Brine returns at surge tank - 145.7bbbls (calculated rate - 19b/d).
09:55:00 Sample No. 1-24 (0.5 ltr water) taken from separator water line.
10:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 100,000ppm.
10:00:00 Well shut in at choke manifold.
13:24:00 BJ coiled tubing commenced pulling out of hole.
14:39:00 BJ coiled tubing at surface.
14:45:00 Closed TRSCSSV. Slowly bled off well head pressure to 775psi.
14:47:00 Wellhead pressure at 775psi. Commenced inflow test of TRSCSSV.
15:10:00 Closed SSLV.
15:10:00 Bled off pressure above SSLV via choke manifold to aft flare boom.
15:20:00 Completed bleeding off pressure.
15:22:00 Closed swab valve and master valve on Expro flowhead.
15:30:00 BJ coiled tubing commenced rigging down.

Client	OMV Australia Pty Ltd	Exal Engineer	M. Donald / N. Dowdell
Well No.	Patricia-2	Location	Ocean Bounty
Test No.	Completion	Start Date	30/06 - 01/07/2002

Time Comment

05/07/02

17:30:00 BJ coiled tubing completed rigging down. Expro wireline commenced rigging up.
18:22:00 Opened swab valve and master valve on Expro flowhead.
18:27:00 Opened lo-torque valve on kill line.
18:30:00 Locked open master valve on flowhead.
18:43:00 Commenced pressure testing Expro wireline lubricator against SSLV to 3,000psi.
18:56:00 Good test. Bled off pressure to 980psi via choke manifold. Opened SSLV.
18:57:00 Expro wireline commenced running in hole with brush.
19:07:00 Expro wireline at surface.
19:10:00 Closed SSLV and master valve on flowhead.
19:17:00 Bled off pressure via choke manifold. Broke out lubricator. Inspected toolstring - brush not present.
19:30:00 Made up fishing tool to Expro wireline toolstring. Stabbed lubricator.
19:52:00 Commenced pressuring up above flowhead master valve to 980psi.
20:00:00 Opened SSLV and master valve on flowhead.
20:06:00 Expro wireline commenced running in hole to fish brush.
20:10:00 Expro wireline at surface.
20:16:00 Closed SSLV and master valve on flowhead.
20:20:00 Bled off pressure vai choke manifold. Broke out lubricator. Removed brush and fishing tool.
20:45:00 Installed SSR plug onto wireline toolstring. Stabbed lubricator.
21:00:00 Pressured up above master valve on flowhead to 980psi. Opened SSLV and master valve.
21:05:00 Expro wireline commenced running in hole to set SSR plug in tubing hanger.
21:08:00 Expro wireline on depth with SSR plug. Commenced gradually pressuring up above SSR plug to 3,000psi to set.
21:25:00 Wellhead pressure at 3,000psi.
21:35:00 Expro wireline commenced hand jarring on plug to set.
21:41:00 Expro wireline sheared off plug. Commenced pulling out of hole.
21:45:00 Expro wireline at surface.
21:47:00 Commenced slowly bleeding down pressure above SSR plug via choke manifold.
21:58:00 Closed in choke manifold. Wellhead pressure at 200psi. Commenced in-flow testing plug.
22:17:00 Good test. Bled off pressure above SSR plug to zero via choke manifold.
22:27:00 Expro wireline commenced rigging down.
22:30:00 End of Completion Test.



MARK	DESCRIPTION	3"-FL-A-(B)
WL	WATER LINE	
VL	VENT LINE	
SL	STEAM LINE	
OL	OIL LINE	
GL	GASLINE	
FL	FLUID LINE	
CL	COFLEXIP	
AL	AIR LINE	
B	HOSES/HARD PIPING	
A	HARD PIPING	
FL	FLUID ID	
3"	LINE ID	
MARK	DESCRIPTION	

MARK	SETTINGS	LOCATION
PSE1	150 PSI	DIRECT HEATER
PSV5	150 PSI	DIRECT HEATER
PSV4	45 PSI	SURGE TANK
PSV3	45 PSI	SURGE TANK
PSV2	1440 PSI	SEPARATOR
PSV1	1440 PSI	SEPARATOR
PSL2	150 PSI	DOWNSSTREAM CHOKE MANIFOLD
PSL1	300 PSI	UPSTREAM CHOKE MANIFOLD
PSH4	???	SEPARATOR
PSH3	120 PSI	HEATER BODY
PSH2	40 PSI	SURGE TANK
PSH1	1200 PSI	DOWNSSTREAM CHOKE MANIFOLD
MARK	SETTINGS	LOCATION

WELLTEST EQUIPMENT RIGGED

UP AS PER PFD	CHECKED	DATE	SIGNED	WT SUP.

AS PER RIG VISIT

APPLIED CHANGES AS PER MEETING	DATE	BY	AUTH
1	24/04/02		
2	30/04/02		

THE EXPRO GROUP

PROCESS FLOW DIAGRAM (PFD)
PATRICIA BAILEEN PROJECT
OCEAN BOUNTY

EXPRO Group Australia
West Perth, Western Australia
Telephone: 08 9213 5555

DRAWING No. PFDJ02/188

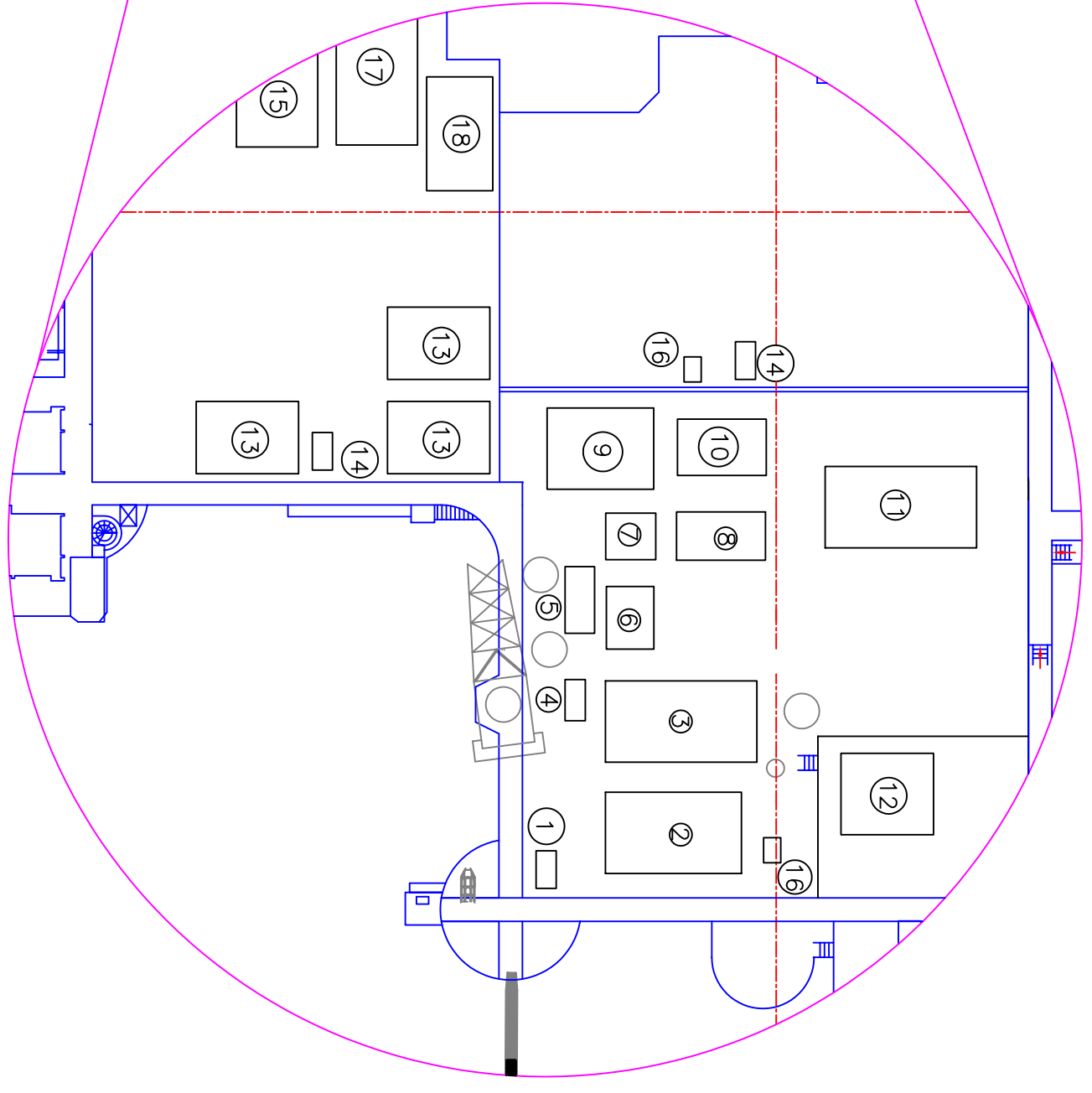
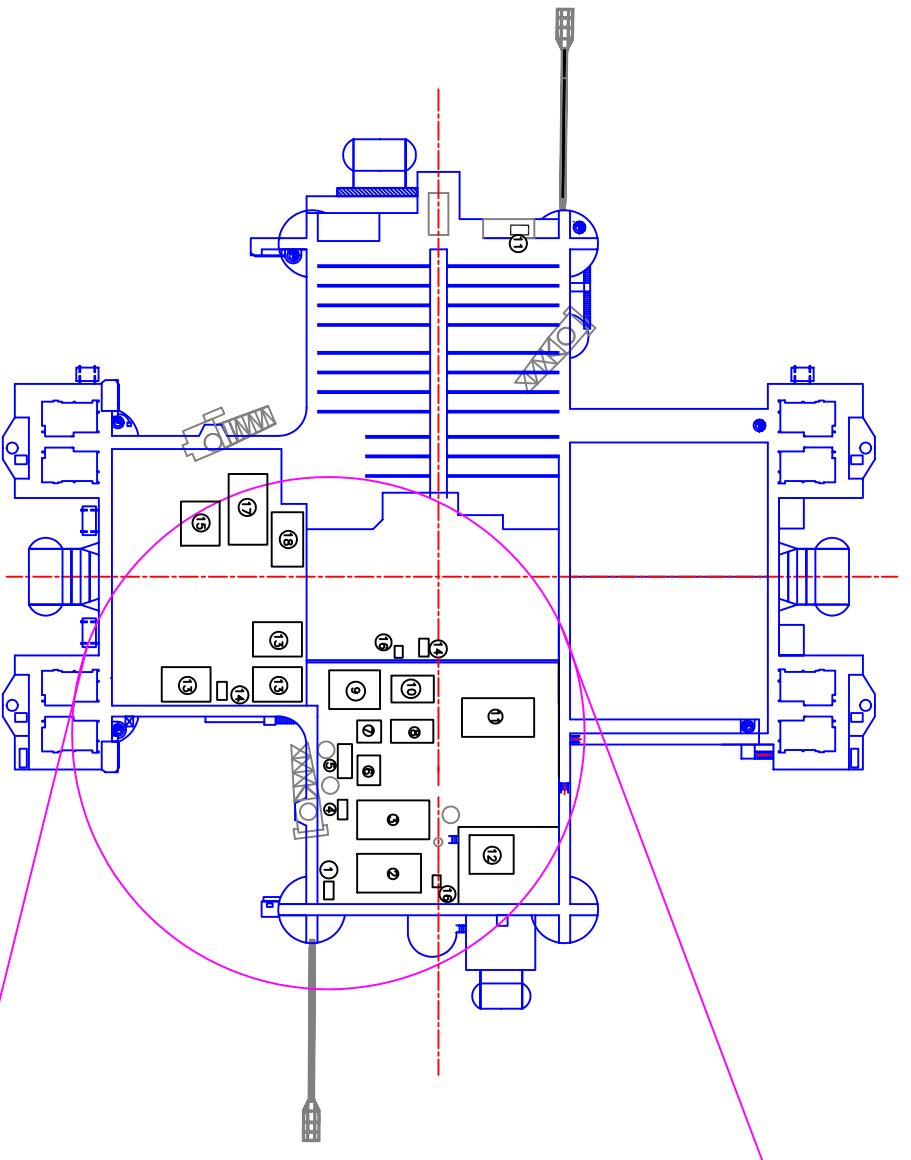
REV. 2

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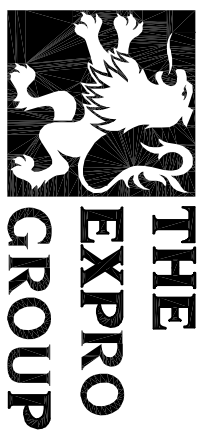
EXPLODED VIEW OF WELL TEST AREA

RIG OVERVIEW



ITEM	DESCRIPTION	LENGTH	WIDTH	HEIGHT	METRIC TONS
1	PROPANE RACK	1.07	1.07	1.90	1.00
2	HEAT EXCHANGER	6.10	2.44	2.44	10.00
3	TEST SEPARATOR	7.40	2.44	2.80	19.00
4	SURFACE SAFETY VALVE	0.82	0.77	1.65	1.00
5	JUNK TRAP	2.44	1.52	1.22	1.00
6	3" CHOKE MANIFOLD	2.50	2.00	0.80	3.00
7	3" OIL MANIFOLD	1.80	1.80	0.40	3.00
8	TRANSFER PUMP	3.10	1.50	1.80	3.00
9	SURGE TANK	2.45	3.45	5.80	9.00
10	STOCK TANK	3.15	1.85	2.40	4.00
11	PRESSURISED LAB	6.06	2.43	2.60	8.00
12	WELL TEST CONTAINER	3.05	2.43	2.62	9.50
13	AIR COMPRESSOR	3.80	2.16	1.96	6.00
14	AIR RECEIVER	1.50	1.00	0.40	0.3
15	WIRELINE CONTAINER	3.05	2.43	2.62	10.5
16	AIR PUMP	0.80	0.70	1.00	0.1
17	SUBSEA CONTAINER	6.04	2.42	3.14	12.00

WELLTEST EQUIPMENT RIGGED UP AS PER LAY OUT DIAGRAM		
CHECKED	DATE	SIGNED



NO.	DATE	BY	AUTH.

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THE EXPRO GROUP
 West Perth, WA Australia
 Telephone: 08 92135555

THE EXPRO GROUP
 WELL TEST LAY OUT DIAGRAM
 PATRICIA BALEEN PROJECT
 OCEAN BOUNTY
 CUSTOMER: OMV AUSTRALIA P/L

JOB No. J02/188
 DRAWING No. LAY102/188
 REV. 0

GLOSSARY OF TERMS

Client :	OMV Australia Pty Ltd.	Well No. :	Patricia-2
Test :	Completion	Date :	30/6 - 06/07/2002

A	Average	MM/d	Millions of std cubic feet per day
a(v)	Average	MMcf	Millions of standard cubic feet
AMON	SST Annulus Monitor	MODU	Mobile Offshore Drilling Unit
AMV	SST Annulus Master Valve	mRT	Meters - Rotary Table
API	American Petroleum Institute	MWD	Measurement While Drilling
ASV	SST Annulus Swab Valve	o	Oil
AWV	SST Annulus Wing Valve	PLT	Production Logging Tool
Bbls	Barrel(s)	PMV	SST Production Master Valve
BHA	Bottom Hole Assembly	POOH	Pull Out Of Hole
BHFP	Bottom Hole Flowing Pressure	ppm	Parts per million
BHFT	Bottom Hole Flowing Temperature	psia	Pounds per square inch (absolute pressure)
BHP	Bottom Hole Pressure	psig	Pounds per square inch (gauge pressure)
BHT	Bottom Hole Temperature	PSR	Production Seal Rams
BOP	Blow Out Preventer	PSV	SST Production Swab Valve
BPV	Back Pressure Valve	PWV	Production Wing Valve
BRT	Below Rotary Table	Q	Flow rate
BS&W	Basic Sediment and Water	RIH	Run In Hole
CBL	Cement Bond Log	RT	Rotary Table
CCL	Casing Collar Locator	Sand	Sand
CITHP	Closed In Tubing Head Pressure	scf	Standard cubic feet
CO2	Carbon Dioxide	sep	Separator
Cum	Cumulative	sepb	Separator barrels
d	Day	sepd	Separator barrels per day
degF	Degrees F	SG	Specific Gravity
FTHP	Flowing Tubing Head Pressure	SIR	Sand impact rate
gas	Gas	SSSV	Sub Surface Safety Valve
GLV	Gas Lift Valve	SST	Sub Sea Tree
GOR	Gas oil ratio	stk	Stock tank
GR	Gamma Ray	stkb	Stock tank barrels
H2S	Hydrogen Sulphide	stkd	Stock tank barrels per day
i	Instantaneous	TD	Total Depth
JSA	Job Safety Analysis	THRT	Tubing Hanger Running Tool
KCl	Potassium Chloride	TRT	Tree Running Tool
MD	Measured Depth	TVD	True Vertical Depth
MDBRT	Measured Depth Below Rotary Table	Usfm	Ultrasonic flow meter
MF	Meter Factor	WHFP	Well Head Flowing Pressure
MM/b	Millions of std cubic feet per barrel	WHFT	Well Head Flowing Temperature



TRANSDUCER INFORMATION

Client : OMV Australia Pty Ltd. **Well No. :** Patricia-2
Test : Completion **Date :** 30/6 - 06/07/2002

Probe No.	Location	Span	Serial No.	Tag
1	Upstream Choke - Test Area	0-5,000 PSIG	7535407	UCP
2	Upstream Choke - Test Area	0-300 deg F	812518	UCT
3	Downstream Choke - Test Area	0-5,000 PSIG	1043225	DCP
4	Downstream Choke - Test Area	0-300 deg F	812519	DCT
5	Annulus	0-10,000 PSIG	7535403	AnnP
6	Separator Gas Line	0-1,500 PSIG	1033769	GasP
7	Separator Gas Line	0-300 deg F	812517	GasT
8	Separator Gas Line	0-400 INWG	7535420	GasD
9	Separator Oil Line	0-300 deg F	812521	OilT
10	Heater	0-5,000 PSIG	7535409	HeatP
11	Heater	0-300 deg F	812516	HeatT
12	Separator Oil Line	0-2,000 BBL/D	FLO-111	Oil1
13	Separator Oil Line	0-8,000 BBL/D	FLO-112	Oil2
14	Separator Oil Line	0-8,000 BBL/D	FLO-113	Oil3
15	Separator Water Line	0-2,000 BBL/D	FLO-114	Water

EXAL RESERVOIR SERVICES

OIL FLOW RATE CALCULATION

$$V_{sep} = V_m * m * (1 - BSW)$$

where

V_{sep} = Corrected meter liquid volume.

V_m = Meter volume.

m = Meter factor determined during test flow periods. Applied to all volumes recorded by EDGE.

BSW = Basic Sediment & Water value as measured at test separator.

$$V_{stk} = V_{sep} * (1 - Shr) * V_{cf} * C_f$$

where

V_{stk} = Volume of oil produced at standard conditions (14.73 psia @ 60°F)

Shr = Shrinkage, accounts for changes in oil volumes due to liberations of free gas between separator and atmospheric pressure. Method of shrinkage, ie. Shrinkage Tester, Katz correlations, etc as determined by operating company.

V_{cf} = Volume Correction Factor. Often applied as part of the shrinkage factor. Corrects the volume at the shrinkage temperature to the volume at the standard temperature (60°F).
re: API/NDS Standard petroleum measurement tables 1979.

C_f = Conversion factor = 1.
(Variable factor used for units output ie. Bbls/day, M3/day, etc)

EXAL RESERVOIR SERVICES

GAS FLOW RATE CALCULATION

$$\text{Gas rate} = C_f * C * \text{Sqrt}(h_w * P_f)$$

$$\text{Orifice constant } C = F_b * F_{pb} * F_{tb} * F_g * F_{tf} * F_r * Y * F_{pv}$$

where

F_b = Basic orifice constant.

F_{pb} = Pressure base factor. Unity as pressure base used is 14.73 psia.

F_{tb} = Temperature base factor. Unity as temperature base used is 520°R (60°F).

F_g = Specific gravity factor. Unity if specified gravity of gas is 1.0.

F_{tf} = Flowing temperature factor. Unity if flowing temperature is 520°R (60°F).

F_r = Reynold number.

Y = Expansion factor.

F_{pv} = Supercompressibility factor. Z is calculated using the Dranchuk correlation, correcting for mol % of CO₂, N₂, and H₂S for a surface gas.

h_w = Differential across orifice plate (inches of water).

P_f = Flowing pressure upstream of orifice plate (psia).

C_f = Conversion factor = 24e-6.

Note:

i Flange tap measurements across Daniel Orifice Box.

ii F_{pv} quoted as 1/2 in Gas Factor Listing



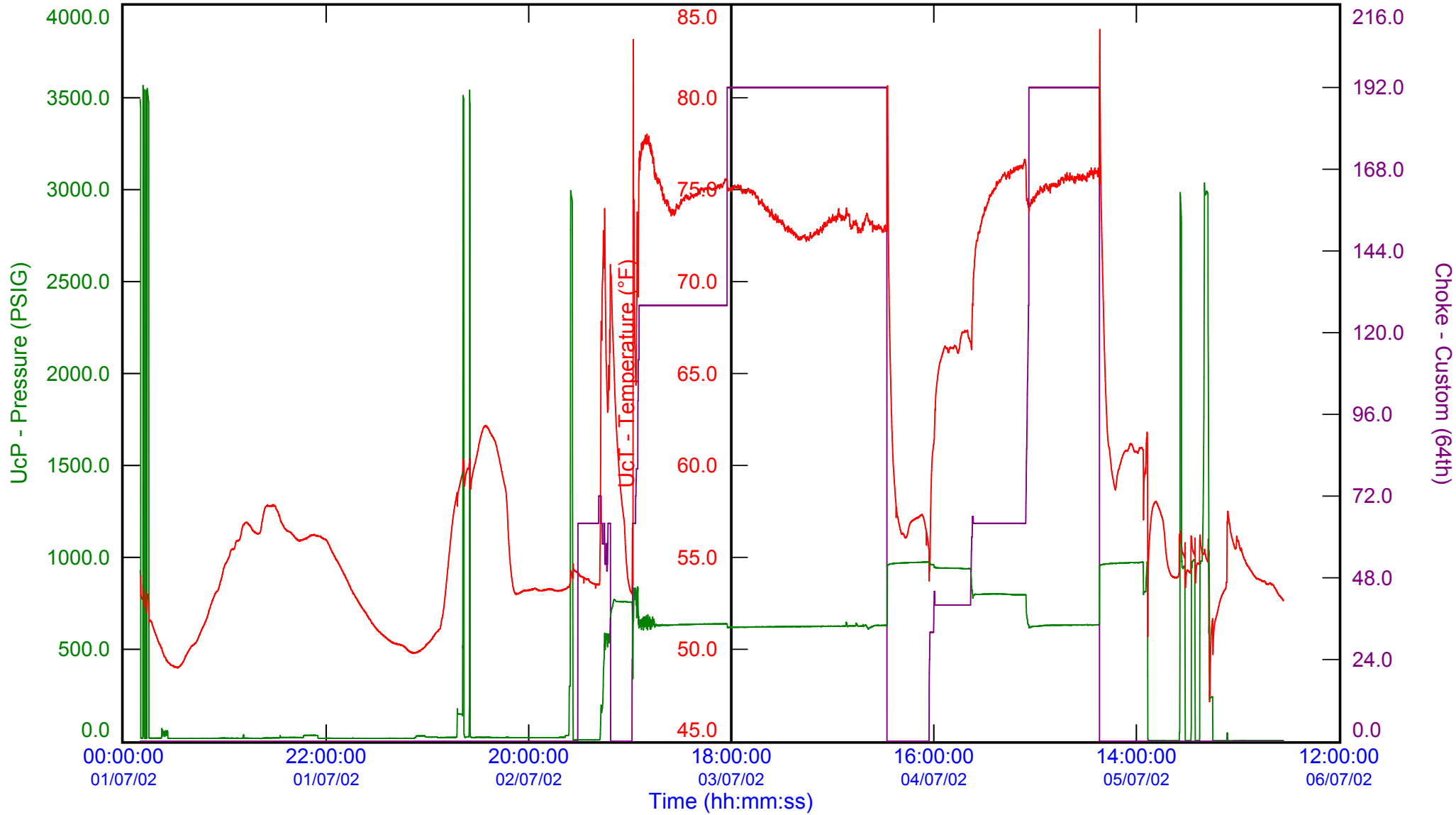
Wellhead - Data Listing

Client	OMV Australia Pty Ltd
Well No.	Patricia-2
Test No.	Completion
Location	Ocean Bounty
Start Date	30/06 - 01/07/2002
Country	Australia
Field	VIC/L21
Job Number	J02/188
Formation	Gurnard
Exal Engineer	M. Donald / N. Dowdell
Client Engineer	A. Ion
Perforations	n/a



Client OMV Australia Pty Ltd
Well No. Patricia-2
Test No. Completion
Location Ocean Bounty

Data Type EDGE Data
Comments Upstream Press / Temp vs Choke
-Complete Test



Client **OMV Australia Pty Ltd** **Exal Engineer** **M. Donald / N. Dowdell**

Well No. **Patricia-2** **Location** **Ocean Bounty**

Test No. **Completion** **Start Date** **30/06 - 01/07/2002**

Time **UcP** **UcT** **DcP** **DcT** **AnnP**
hh:mm:ss **PSIG** **°F** **PSIG** **°F** **PSIG**

29/06/02

14:00:00 Commenced pressure testing complete surface equipment.
14:00:00 Flushed surface lines to Fwd and Aft booms until clean.
15:05:00 Test #1 - Aft oil and gas lines to boom burners to 500psi.
15:17:00 Test #2 - Full equipment body test to oil and gas diverter manifolds to 500psi.
15:22:00 Test #3 - Full equipment body test to oil and gas diverter manifolds to 1,000psi.
15:33:00 Test #4 - Separator body test and gas, oil and water outlet valves to 500psi.
15:38:00 Test #5 - Separator body test and gas, oil and water outlet valves to 1,000psi.
15:52:00 Test #6 - Separator inlet and bypass valves to 500psi.
15:57:00 Test #7 - Separator inlet and bypass valves to 1,000psi.
16:10:00 Test #8 - Oil diverter manifold to 500psi.
16:15:00 Test #9 - Oil diverter manifold to 1,000psi.
16:26:00 Test #10 - Heater coil and bypass valves to 500psi.
16:31:00 Test #11 - Heater coil and bypass valves to 1,000psi.
16:46:00 Test #12 - Heater inlet and bypass valve to 500psi.
16:51:00 Test #13 - Heater inlet and bypass valve to 1,000psi.
17:05:00 Test #14 - Downstream choke manifold valves to 500psi.
17:10:00 Test #15 - Downstream choke manifold valves to 1,000psi.
17:23:00 Test #16 - Upstream choke manifold valves to 500psi.
17:28:00 Test #17 - Upstream choke manifold valves to 3,500psi.
17:45:00 Test #18 - Sandtrap valve to 500psi.
17:50:00 Test #19 - Sandtrap valve to 3,500psi.
18:03:00 Test #20 - ESD valve to 500psi.
18:08:00 Test #21 - ESD valve to 3,500psi.
18:20:00 All pressure tests successfully completed.

30/06/02

01:00:00 Set SLZXP hanger/packer. Commenced 1,500psi annular pressure test to confirm packer set.
01:30:00 Good test. Commenced operations to shear off and release HR running tool.
01:50:00 Commenced pulling out of hole with drill pipe and HR running tool.
06:30:00 Commenced running in hole with 5-1/2" 17ppf NK3SB tubing
07:00:01 7.7 53.0 0.0 54.0 10.1
10:48:00 Commenced making up TRSCSSV.
11:31:00 Completed making up TRSCSSV. Pressure tested hydraulic line to 5,000psi.
11:45:00 Good test. Continued running in hole with tubing.
14:00:00 Commenced making up Lower Landing String Assembly (LLSA).
14:30:00 Picked up and made up TH to THRT to SSTT. Attached umbilical. Flushed and checked lines.
15:21:00 Function tested THRT latch, un-latch, softland, vent/test and TH lock.
15:35:00 Latched TH in THRT
15:37:00 Pressure tested umbilical to 5,000psi.
15:42:00 Good test. Pressure tested control line to TRSCSSV to 5,000psi.
15:46:00 Good test. Unlocked TH. Opened lower and upper ball valves in SSTT.
16:15:00 Commenced running in hole with 7" landing string.
18:00:00 Commenced rigging up circulating head.
18:50:00 Tagged Polished Bore receptacle. Pulled up and broke out landing joint.
19:00:00 Prepared to rig up coil tubing lifting frame.
19:30:00 Conducted JSA on drill floor for Coil Tubing Lift Frame (CTLF) and Expro flowhead.
19:45:00 Commenced rigging up CTLF.
20:45:00 Completed rigging up CTLF. Picked up and made up flowhead.
21:15:00 Commenced rigging up Coflexip hose to flow wing. Rigged up casing elevator and bails.

Client **OMV Australia Pty Ltd** **Exal Engineer** **M. Donald / N. Dowdell**

Well No. **Patricia-2** **Location** **Ocean Bounty**

Test No. **Completion** **Start Date** **30/06 - 01/07/2002**

Time hh:mm:ss	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG
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30/06/02

22:20:00 Made up 7" casing landing joint to landing string.
23:00:00 Rigged up hydraulic control lines and cement pump line to kill wing on flowhead.
Rigged up coil tubing lines from rig manifold.

01/07/02

01:10:00 Opened production wing valve on flowhead.
01:10:00 Open choke manifold to surge tank and lo-torque valve.
01:23:00 Commenced flushing from cement unit across flowhead to choke manifold and down landing string.
01:29:00 Closed SSLV. Continued pumping through to Expro choke manifold.
01:37:00 Good returns at choke manifold. Stopped pumping and closed in at choke manifold.
01:42:00 Commenced pressure test on SSLV against Expro choke manifold to 3,500psi.
01:47:00 Commenced logging on EdgeX surface data acquisition system.
01:47:31 3497.9 54.0 6.2 53.0 9.7
01:52:00 Good test bled off pressure. Opened SSLV.
02:00:00 16.7 53.0 6.2 53.0 9.2
02:02:00 Closed SSTT upper ball valve.
02:06:00 Commenced pressure test on SSTT against Expro choke manifold to 3,500psi.
02:11:00 Bled off pressure due to leak at lo-torque valve. Fuctioned lo-torque valve.
02:13:00 Commenced pressure test on SSTT against Expro choke manifold to 3,500psi.
02:15:00 Bled off pressure due to leak at lo-torque valve.
02:15:00 3545.2 53.0 5.9 53.0 10.1
02:16:00 Replaced lo-torque valve.
02:23:00 Commenced pressure test on SSTT against Expro choke manifold to 3,500psi.
02:27:00 Bled off pressure due to leak at lo-torque valve. Replaced lo-torque valve.
02:30:00 16.3 52.0 5.5 52.0 10.1
02:32:00 Commenced pressure test on SSTT against Expro choke manifold to 3,500psi.
02:44:00 Good test bled off pressure.
02:45:00 17.9 52.0 5.6 52.0 8.8
02:53:00 Opened SSTT upper ball prior to circulating filtered brine.
03:00:00 17.1 52.0 5.3 52.0 9.7
03:10:00 Commenced rigging up Expro wireline BOP's and lubricator.
03:15:00 16.9 51.0 5.3 52.0 9.2
03:30:00 16.9 51.0 5.2 52.0 9.2
03:45:00 16.7 50.0 4.8 52.0 9.7
04:00:00 Commenced conventional circulation of inhibited brine.
04:00:00 16.3 50.0 5.2 51.0 9.2
04:15:00 31.6 50.0 4.9 51.0 9.2
04:30:00 29.0 50.0 5.2 51.0 10.1
04:45:00 63.3 49.0 4.8 51.0 10.9
04:48:00 Completed conventional circulation.
05:00:00 16.9 49.0 5.2 51.0 10.5
05:03:00 Landed out completion in Subsea Tree (SST). Good indication of helix alignment.
05:13:00 Vented TRSCSSV control line at Expro panel. Vented soft-land on THRT.
05:15:00 15.7 49.0 4.8 51.0 10.5
05:26:00 Closed middle pipe rams.
05:30:00 15.3 49.0 4.5 51.0 9.7
05:45:00 15.9 49.0 4.5 51.0 10.1
05:54:00 Pressured up on annulus beneath middle pipe rams to 3,500psi. Good test.
06:00:00 15.3 49.0 4.5 50.0 36.2
06:06:00 Locked tubing hanger. Good indication on lock monitor on control panel.
06:10:00 Pressured up on annulus above tubing hanger to to 3,500psi to confirm seal. Good

Client OMV Australia Pty Ltd **Exal Engineer** M. Donald / N. Dowdell

Well No. Patricia-2 **Location** Ocean Bounty

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01/07/02

test.

06:15:00	15.5	49.0	4.4	50.0	3444.1
06:30:00	15.5	49.0	4.5	51.0	3445.7
06:36:00	Bled down tubing hanger lock pressure.				
06:44:00	Commenced overpull test.				
06:45:00	Overpull test failed.				
06:45:00	15.7	50.0	3.1	51.0	8.4
06:46:00	Pressured up on THRT unlock line to 3,000psi. THRT not locked.				
07:00:00	Closed middle pipe rams.				
07:00:00	15.3	50.0	2.8	51.0	9.2
07:09:00	Pressured up on THRT lock line to 4,500psi. THRT failed to lock.				
07:11:00	Pressured up on THRT lock line to 3,000psi. THRT failed to lock.				
07:15:00	15.9	50.0	2.4	51.0	916.1
07:16:00	Bled off pressure on THRT lock line and re-pressured to 4,000psi. THRT failed to lock.				
07:26:00	Bled off pressure on THRT lock line and re-pressured to 3,000psi. THRT failed to lock.				
07:27:00	Bled off pressure on THRT lock monitor.				
07:30:00	Functioned SST choke with ROV.				
07:30:00	16.1	50.0	2.0	51.0	1890.0
07:45:00	15.7	50.0	1.8	51.0	12.5
08:00:00	15.3	50.0	1.3	51.0	11.7
08:15:00	15.9	51.0	1.8	51.0	12.1
08:30:00	15.9	51.0	1.4	52.0	12.1
08:45:00	15.5	51.0	1.4	52.0	11.7
09:00:00	16.1	52.0	1.4	52.0	11.7
09:15:00	15.9	52.0	1.4	53.0	11.3
09:30:00	16.5	52.0	1.4	53.0	12.1
09:45:00	15.9	53.0	2.4	54.0	11.7
10:00:00	Pressured up below middle pipe rams and above tubing hanger to assist in engaging lock.				
10:00:00	16.3	53.0	2.5	54.0	6.0
10:15:00	16.5	53.0	2.1	54.0	3410.6
10:30:00	16.7	54.0	1.7	54.0	3920.8
10:45:00	17.5	54.0	1.4	54.0	13.8
11:00:00	17.5	55.0	2.1	55.0	12.9
11:15:00	16.9	55.0	1.8	55.0	7.6
11:30:00	16.1	55.0	1.4	55.0	8.0
11:35:00	Opened middle pipe rams. Closed lower annular bag. Pressured up annulus to 3,500psi.				
11:40:00	Attempted to set tubing hanger. Failed.				
11:45:00	16.7	55.0	2.2	56.0	4899.7
12:00:00	16.3	55.0	2.0	56.0	4786.8
12:15:00	16.3	56.0	1.9	56.0	16.2
12:30:00	16.3	56.0	2.0	56.0	16.6
12:45:00	Pulled back on landing string 4 meters. Pressured up THRT unlock line to 2,000psi.				
12:45:00	15.7	56.0	1.8	56.0	16.2
12:50:00	Pressured up on THRT soft land to 3,000psi.				
12:55:00	Opened TRSCSSV.				
13:00:00	33.2	57.0	1.6	56.0	7.6
13:05:00	Closed TRSCSSV.				
13:10:00	Landed out completion in SST.				
13:15:00	Launched ROV to open TRSCSSV isolation valve and cavity seal monitor valve on SST.				

Client	OMV Australia Pty Ltd	Exal Engineer	M. Donald / N. Dowdell
Well No.	Patricia-2	Location	Ocean Bounty
Test No.	Completion	Start Date	30/06 - 01/07/2002

Time hh:mm:ss	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG
01/07/02					
13:15:00	16.9	57.0	2.2	57.0	7.2
13:30:00	16.9	57.0	2.1	57.0	7.6
13:45:00	17.1	57.0	2.1	57.0	7.6
14:00:00	16.1	56.0	2.4	57.0	8.0
14:15:00	15.9	56.0	1.8	57.0	7.6
14:26:00	ROV opened TRSCSSV isolation valve on SST.				
14:30:00	16.1	56.0	1.8	57.0	8.0
14:42:00	ROV opened cavity seal monitor valve on SST.				
14:45:00	15.9	56.0	1.4	57.0	7.6
14:46:00	Bled off THRT soft land line.				
14:49:00	Closed lower annular bag. Pressured up beneath annular bag to 3,500psi.				
14:55:00	Bled off pressure below bag.				
14:57:00	Pressured up on THRT lock line to 3,000psi. Opened lower annular bag.				
15:00:00	Bled off pressure on THRT lock line. Conducted 20,000lbs overpull test.				
15:00:00	15.9	57.0	1.4	57.0	11.3
15:05:00	Good test. Released overpull.				
15:08:00	Closed middle pipe rams.				
15:10:00	Commenced pressure testing tubing hanger and packer seal.				
15:15:00	16.7	57.0	1.9	58.0	5.6
15:30:00	Held wireline JSA.				
15:30:00	18.1	58.0	3.2	58.0	197.7
15:35:00	Commenced rigging up Expro wireline.				
15:45:00	18.1	58.0	2.8	58.0	3374.2
16:00:00	16.5	58.0	1.9	58.0	6.4
16:15:00	18.1	58.0	2.2	58.0	6.8
16:20:00	Observed polished bore receptacle (PBR) leaking.				
16:30:00	18.1	58.0	2.8	58.0	6.4
16:45:00	18.9	57.0	2.5	57.0	7.6
17:00:00	21.0	57.0	2.2	57.0	11.7
17:15:00	20.4	57.0	1.9	57.0	8.4
17:30:00	Commenced rigging down Expro wireline.				
17:30:00	Prepared to rig down CTLF and flow head.				
17:30:00	20.4	57.0	1.5	57.0	7.6
17:45:00	21.0	56.0	1.5	57.0	12.5
18:00:00	20.6	56.0	1.9	57.0	12.1
18:15:00	21.0	56.0	1.9	57.0	13.3
18:30:00	20.8	56.0	1.5	57.0	13.3
18:45:00	20.4	56.0	1.6	57.0	12.9
18:50:00	Pressured up tubing hanger unlock. Applied 30,000lbs over pull.				
19:00:00	20.6	56.0	1.5	57.0	13.3
19:01:00	Applied neutral weight on tubing hanger, increased unlock to 40,000psi, applied 50,000lbs over pull.				
19:07:00	Bled off tubing hanger unlock, pressured up tubing hanger lock to 2000psi.				
19:07:00	Bled off tubing hanger lock, bled off THRT latch.				
19:10:00	Pressured up tubing hanger unlock to 4,000psi, pressured up THRT latch to 3,000psi.				
19:15:00	Applied 65,000lbs over pull.				
19:15:00	20.6	56.0	1.9	57.0	13.3
19:25:00	Reduced over pull to 40,000lbs above string WT - total 270,000lbs.				
19:28:00	Tubing hanger released.				
19:30:00	20.6	56.0	1.5	57.0	13.3
19:35:00	Commenced rigging down flowhead.				
19:45:00	32.4	56.0	1.6	57.0	13.3

Client	OMV Australia Pty Ltd	Exal Engineer	M. Donald / N. Dowdell
Well No.	Patricia-2	Location	Ocean Bounty
Test No.	Completion	Start Date	30/06 - 01/07/2002

Time hh:mm:ss	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG
<u>01/07/02</u>					
20:00:00	31.4	56.0	1.9	57.0	13.3
20:15:00	32.6	56.0	2.1	57.0	13.3
20:30:00	32.4	56.0	1.9	57.0	12.9
20:45:00	32.8	56.0	1.8	57.0	13.3
21:00:00	31.0	56.0	1.6	57.0	13.3
21:15:00	15.7	56.0	2.1	57.0	12.9
21:30:00	15.9	56.0	2.0	56.0	13.3
21:45:00	16.1	56.0	1.4	56.0	13.3
22:00:00	17.1	56.0	1.9	56.0	14.2
22:15:00	16.9	56.0	2.1	56.0	13.3
22:16:00	Laid down CTLF, continue pulling out of hole with landing string and tubing hanger.				
22:30:00	16.5	55.0	2.0	56.0	13.3
22:42:00	Bled off SSLV open line.				
22:45:00	16.1	55.0	1.5	56.0	14.2
23:00:00	15.9	55.0	1.9	56.0	13.8
23:15:00	16.1	55.0	1.9	56.0	13.8
23:20:00	Tubing hanger at surface. Commenced breaking out tubing hanger from tubing.				
23:30:00	15.9	55.0	1.6	56.0	14.2
23:45:00	16.1	54.0	1.7	56.0	14.2

<u>02/07/02</u>					
00:00:00	16.1	54.0	1.8	56.0	13.3
00:10:00	Unlatched SSTT assembly from tubing hanger.				
00:15:00	16.1	54.0	2.1	55.0	13.3
00:20:00	Layed out SSTT assembly on catwalk.				
00:30:00	16.1	54.0	1.6	55.0	13.8
00:35:00	Broke out tubing hanger. Commenced redress of tubing hanger.				
00:45:00	15.7	53.0	1.6	55.0	13.8
01:00:00	16.1	53.0	1.6	55.0	13.8
01:15:00	15.9	53.0	1.6	55.0	13.3
01:30:00	16.3	53.0	1.6	54.0	14.2
01:45:00	16.1	52.0	1.9	54.0	13.3
02:00:00	15.9	52.0	1.6	54.0	13.3
02:15:00	16.1	52.0	1.3	54.0	13.8
02:30:00	15.7	52.0	1.6	54.0	13.3
02:45:00	15.9	52.0	1.6	54.0	13.3
03:00:00	15.5	51.0	1.6	54.0	13.3
03:15:00	Completed re-assembly of tubing hanger with added pup joints.				
03:15:00	15.7	51.0	1.3	53.0	12.9
03:30:00	15.5	51.0	1.6	53.0	14.2
03:35:00	Made up TRSCSSV to tubing hanger and landed out in rotary table.				
03:45:00	16.1	51.0	1.4	53.0	13.3
03:52:00	Picked up and made up LLSA and SSTT.				
04:00:00	15.9	51.0	1.5	53.0	13.3
04:15:00	16.1	51.0	1.6	53.0	13.3
04:20:00	Completed function testing LLSA.				
04:20:00	Commenced pressure testing TRSCSSV control line to 5,000psi. Good test.				
04:25:00	Commenced running in hole with LLSA.				
04:30:00	16.5	51.0	1.5	53.0	13.3
04:45:00	16.1	51.0	1.6	53.0	13.8
05:00:00	16.1	50.0	1.6	53.0	12.9
05:02:00	Picked up and made up SSLV assembly. Repaired damage to SSLV umbilical line.				

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Well No.	Patricia-2	Location	Ocean Bounty
Test No.	Completion	Start Date	30/06 - 01/07/2002

Time hh:mm:ss	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG
02/07/02					
05:15:00	16.5	50.0	1.5	53.0	13.3
05:30:00	16.1	50.0	1.6	53.0	13.3
05:45:00	15.9	50.0	1.6	53.0	13.3
06:00:00	15.9	50.0	1.3	52.0	12.9
06:15:00	16.3	50.0	1.6	52.0	13.3
06:20:00	Continued running in hole with landing string.				
06:24:00	Stopped Edge logging system for maintenance.				
06:28:00	Re-started Edge logging system.				
06:30:00	15.9	50.0	1.9	52.0	12.9
06:45:00	16.5	50.0	1.6	52.0	13.3
06:55:00	Rigged down 7" elevators. Rigged up 5" drill pipe elevators.				
07:00:00	16.3	50.0	1.6	52.0	13.8
07:15:00	Picked up CTLF unit to derrick.				
07:15:00	16.3	50.0	1.3	52.0	12.9
07:30:00	16.1	50.0	1.6	52.0	13.3
07:40:00	Completed making up Expro flowhead. Made up coflexip to production wing. Made up line from cement unit to kill wing.				
07:45:00	23.4	50.0	1.5	52.0	13.3
08:00:00	29.2	50.0	1.3	52.0	12.9
08:15:00	29.4	50.0	1.3	52.0	12.9
08:30:00	29.6	50.0	1.3	52.0	13.3
08:45:00	26.9	50.0	1.6	52.0	13.3
08:55:00	Landed out completion in Subsea Tree (SST).				
09:00:00	23.0	50.0	0.9	52.0	13.3
09:15:00	22.6	50.0	0.5	52.0	8.4
09:21:00	Locked tubing hanger. Good indication at control panel.				
09:25:00	Commenced 50,000lbs overpull test. Good test, released overpull.				
09:30:00	22.8	51.0	1.2	53.0	8.0
09:33:00	Commenced pressure annulus below tubing hanger to 1,500psi.				
09:45:00	Good test. Bled off pressure.				
09:45:00	22.4	51.0	2.6	54.0	1480.7
09:51:00	Commenced pressure annulus below tubing hanger to 3,500psi.				
10:00:00	23.2	51.0	1.9	54.0	3368.1
10:03:00	Good test. Bled off pressure.				
10:15:00	Commenced rigging up Expro wireline to pull isolation sleeve and drift completion.				
10:15:00	19.6	51.0	2.2	54.0	8.8
10:30:00	20.6	51.0	1.9	54.0	9.2
10:45:00	20.6	52.0	0.8	54.0	8.8
11:00:00	20.8	53.0	0.9	54.0	8.0
11:15:00	21.2	55.0	0.3	55.0	8.0
11:30:00	Completed rigging up Expro wireline.				
11:30:00	21.0	56.0	2.6	56.0	8.8
11:45:00	21.0	57.0	3.2	56.0	8.0
11:55:00	Commenced pressure testing against flow head master valve and SSTT upper ball to 2,000psi.				
12:00:00	21.0	58.0	2.0	56.0	8.8
12:03:00	Good test. Commenced pressure testing Expro wireline lubricator to 3,500psi.				
12:13:00	Good test. Bled off pressure.				
12:15:00	Closed flowhead kill wing valve. Pressure tested from cement unit to kill wing valve to 3,500psi.				
12:15:00	177.6	58.0	1.7	56.0	8.4
12:20:00	Repaired leaks to lo-torque valve.				

Client OMV Australia Pty Ltd **Exal Engineer** M. Donald / N. Dowdell

Well No. Patricia-2 **Location** Ocean Bounty

Test No. Completion **Start Date** 30/06 - 01/07/2002

Time hh:mm:ss	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG
<u>02/07/02</u>					
12:30:00	147.9	59.0	1.3	56.0	9.2
12:45:00	Good test. Opened kill wing valve. Opened production wing valve.				
12:45:00	147.9	59.0	1.2	56.0	8.8
12:47:00	Commenced pressure testing SSTT upper ball to choke manifold to 3,500psi.				
12:57:00	Good test. Bled off pressure. Opened SSTT upper ball.				
13:00:00	Expro wireline commenced running in hole with GS pulling tool to retrieve isolation sleeve.				
13:00:00	37.5	59.0	0.3	56.0	9.2
13:07:00	Expro wireline at surface. Closed Swab valve on flowhead.				
13:10:00	Closed SSLV. Bled off lubricator pressure.				
13:15:00	23.4	60.0	2.1	57.0	8.8
13:20:00	Broke out lubricator and laid out GS pulling tool and isolation sleeve.				
13:25:00	Installed 4.5" gauge ring onto wireline toolstring. Stabbed lubricator and pressure tested to 3,500psi.				
13:30:00	24.5	60.0	2.0	57.0	8.4
13:38:00	Good test. Bled off pressure.				
13:40:00	Opened SSLV. Opened swab valve on flowhead. Commenced running in hole with gauge ring.				
13:45:00	22.0	59.0	2.7	58.0	8.8
13:55:00	Expro wireline at surface. Closed SSLV. Closed swab valve on flowhead.				
14:00:00	Commenced rigging down Expro wireline.				
14:00:00	20.2	60.0	2.0	59.0	9.2
14:15:00	21.2	60.0	2.7	60.0	8.8
14:20:00	Completed rigging down Expro wireline.				
14:30:00	BJ Coiled tubing commenced rigging up injector head.				
14:30:00	22.4	61.0	3.0	61.0	8.8
14:45:00	22.0	61.0	2.9	61.0	9.7
15:00:00	22.0	62.0	3.0	62.0	9.2
15:15:00	22.0	62.0	2.6	62.0	9.7
15:30:00	22.0	62.0	4.0	62.0	9.7
15:45:00	21.6	62.0	2.9	62.0	9.7
16:00:00	20.6	62.0	1.6	62.0	10.5
16:15:00	20.0	61.0	2.1	62.0	9.2
16:30:00	20.6	61.0	2.9	61.0	9.2
16:45:00	20.2	61.0	2.7	61.0	10.1
17:00:00	20.2	60.0	2.2	61.0	9.7
17:15:00	20.2	59.0	1.7	60.0	9.7
17:30:00	20.6	59.0	2.1	60.0	9.7
17:45:00	22.2	57.0	2.2	58.0	9.7
18:00:00	19.3	55.0	1.2	57.0	9.2
18:15:00	19.6	54.0	1.1	56.0	9.2
18:30:00	19.8	53.0	0.8	56.0	9.7
18:45:00	19.1	53.0	1.2	56.0	9.2
19:00:00	19.3	53.0	1.1	55.0	9.7
19:15:00	20.0	53.0	1.3	55.0	9.7
19:30:00	20.2	53.0	1.5	55.0	9.7
19:45:00	19.6	53.0	1.5	55.0	9.2
20:00:00	20.2	53.0	1.9	55.0	9.7
20:15:00	19.1	53.0	1.6	55.0	9.2
20:30:00	19.3	53.0	1.9	55.0	9.2
20:45:00	19.6	53.0	1.9	55.0	9.2
21:00:00	19.8	53.0	1.6	55.0	9.2

Client	OMV Australia Pty Ltd	Exal Engineer	M. Donald / N. Dowdell
Well No.	Patricia-2	Location	Ocean Bounty
Test No.	Completion	Start Date	30/06 - 01/07/2002

Time hh:mm:ss	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG
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02/07/02

21:15:00	19.3	53.0	1.6	55.0	8.8
21:30:00	19.1	53.0	1.2	55.0	8.8
21:45:00	19.6	53.0	1.5	55.0	9.2
22:00:00	19.6	53.0	1.9	55.0	9.2
22:15:00	19.8	53.0	1.6	55.0	9.2
22:30:00	19.8	53.0	1.4	54.0	9.2
22:45:00	19.3	53.0	1.5	54.0	8.8
23:00:00	Completed rigging up coiled tubing.				
23:00:00	19.6	53.0	1.5	54.0	9.7
23:15:00	19.6	53.0	1.5	54.0	9.2
23:23:00	Closed production wing valve for pressure test.				
23:30:00	Held JSA prior to coiled tubing operations.				
23:30:00	22.0	53.0	1.5	54.0	8.8
23:45:00	22.2	53.0	1.5	54.0	9.2
23:50:00	Commenced flushing coiled tubing lines prior to pressure test.				

03/07/02

00:00:00	31.6	53.0	1.6	54.0	9.2
00:15:00	31.0	53.0	1.6	54.0	9.7
00:26:00	Commenced pressure testing coil to 300psi.				
00:29:00	Good test. Increased pressure to 3,000psi.				
00:30:00	299.4	54.0	1.3	54.0	9.2
00:40:00	Good test.				
00:43:00	Commenced slowly bleeding off line pressure.				
00:45:00	2705.0	54.0	1.9	54.0	9.2
00:50:00	Completed bleed down.				
01:00:00	7.5	54.0	6.2	55.0	8.8
01:08:00	Opened kill wing valve on flowhead.				
01:15:00	Opened flowhead master valve and locked open.				
01:15:00	7.5	54.0	6.0	55.0	8.8
01:16:00	Opened SSLV.				
01:21:00	Coil tubing commenced running in hole at 10m per minute. Open at Expro choke manifold on 64/64th adjustable choke to surge tank.				
01:30:00	7.5	54.0	6.2	54.0	9.7
01:38:00	Coil tubing at depth 66mRT. Continued running in hole at 5m per minute.				
01:45:00	7.5	54.0	6.3	54.0	8.8
01:56:00	Coil tubing at depth 200mRT. Continued running in hole at 6m per minute.				
02:00:00	Coil tubing stopped at 221mRT due to problem with SRO pressure gauge.				
02:00:00	9.5	54.0	6.5	54.0	10.1
02:15:00	7.5	54.0	5.9	54.0	9.2
02:28:00	Rectified SRO pressure gauge fault. Coiled tubing continued running in hole.				
02:30:00	7.5	54.0	5.9	54.0	9.7
02:45:00	7.3	54.0	5.6	54.0	8.8
03:00:00	7.5	54.0	5.9	54.0	9.7
03:09:00	Coiled tubing stopped at 600mRT to allow nitrogen unit to cool down.				
03:15:00	7.3	54.0	5.9	54.0	9.7
03:22:00	Coiled tubing commenced pumping nitrogen at 400 scf/m.				
03:30:00	7.3	54.0	5.6	54.0	8.8
03:37:00	Coiled tubing at 786mRT. Increased adjustable choke to 72/64".				
03:42:00	Expro observed brine returns at surge tank.				
03:44:00	Total brine returns at surge tank - 1.3bbbls (calculated rate - 1877b/d).				
03:45:00	Total brine returns at surge tank - 2.3bbbls (calculated rate - 1440b/d).				

Client	OMV Australia Pty Ltd	Exal Engineer	M. Donald / N. Dowdell
Well No.	Patricia-2	Location	Ocean Bounty
Test No.	Completion	Start Date	30/06 - 01/07/2002

Time hh:mm:ss	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG
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03/07/02

03:45:00	Coiled tubing stopped at 892mRT. Continued pumping nitrogen at 400scf/m.				
03:45:00	14.8	55.0	9.8	55.0	8.8
03:47:00	Coiled tubing notified of leak in the injector.				
03:50:00	Coil tubing pulled back up hole 20m due to suspected nitrogen loss in screens.				
03:50:00	Total brine returns at surge tank - 28.3bbbls (calculated rate - 8640b/d).				
03:53:00	Coil tubing at depth 872m. Continued pumping.				
03:53:00	Decreased adjustable choke to 64/64".				
03:56:00	Total brine returns at surge tank - 32.7bbbls (calculated rate - 6048b/d).				
03:58:00	Coil tubing commenced pulling out of hole to 792mRT. Continued to pump at 400scf/m.				
04:00:00	Decreased adjustable choke to 58/64".				
04:00:00	Total brine returns at surge tank - 43bbbls (calculated rate - 2880b/d).				
04:00:00	177.8	70.0	64.1	69.0	8.8
04:03:00	Expro observed nitrogen at surface with brine.				
04:05:00	Total brine returns at surge tank - 57.7bbbls (calculated rate - 4320b/d).				
04:10:00	Increased adjustable choke to 64/64".				
04:10:00	Total brine returns at surge tank - 71bbbls (calculated rate - 3600b/d).				
04:13:00	Coil tubing at depth 792mRT.				
04:15:00	Decreased adjustable choke to 58/64".				
04:15:00	Total brine returns at surge tank - 77bbbls (calculated rate - 3456b/d).				
04:15:00	589.7	74.0	77.8	74.0	8.8
04:17:00	Decreased adjustable choke to 52/64".				
04:19:00	Total brine returns at surge tank - 90.5bbbls (calculated rate - 3312b/d).				
04:20:00	Coil tubing reduced nitrogen pump rate to 300scf/m.				
04:24:00	Increased adjustable choke to 56/64".				
04:25:00	Increased adjustable choke to 58/64".				
04:25:00	Total brine returns at surge tank - 91.7bbbls (calculated rate - 720b/d).				
04:29:00	Decreased adjustable choke to 50/64".				
04:30:00	Coil tubing commenced running in hole to 892mRT continued flowing at 300scf/m.				
04:30:00	Total brine returns at surge tank - 96.1bbbls (calculated rate - 1728b/d).				
04:30:00	576.2	64.0	37.9	59.0	9.2
04:32:00	Increased adjustable choke to 52/64".				
04:35:00	Increased adjustable choke to 56/64".				
04:35:00	Total brine returns at surge tank - 97.4bbbls (calculated rate - 1872b/d).				
04:36:00	Increased adjustable choke to 58/64".				
04:37:00	Increased adjustable choke to 64/64".				
04:40:00	Coiled tubing at depth 892mRT.				
04:40:00	Total brine returns at surge tank - 99.8bbbls (calculated rate - 864b/d).				
04:45:00	Total brine returns at surge tank - 106.6bbbls (calculated rate - 1728b/d).				
04:45:00	567.6	64.0	34.1	56.0	9.7
04:50:00	Total brine returns at surge tank - 109.4bbbls (calculated rate - 2592b/d).				
04:54:00	Coil tubing stopped pumping nitrogen and Expro choke shut in.				
04:57:00	Total brine returns at surge tank - 119.4bbbls (calculated rate - 1152b/d).				
05:00:00	716.9	70.0	0.0	68.0	9.7
05:15:00	768.0	66.0	0.0	66.0	8.8
05:30:00	760.6	62.0	0.0	64.0	9.2
05:45:00	759.6	60.0	0.2	62.0	8.8
06:00:00	759.2	59.0	0.2	61.0	9.2
06:15:00	759.0	57.0	0.2	60.0	8.8
06:30:00	759.6	56.0	0.0	59.0	9.2
06:45:00	757.3	54.0	0.0	58.0	8.8
07:00:00	Function tested ESD system in presence of OMV company men.				

Client OMV Australia Pty Ltd **Exal Engineer** M. Donald / N. Dowdell

Well No. Patricia-2 **Location** Ocean Bounty

Test No. Completion **Start Date** 30/06 - 01/07/2002

Time hh:mm:ss	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG
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03/07/02

07:00:00	757.3	53.0	0.0	57.0	9.2
07:05:00	Held JSA on drill floor prior to opening well.				
07:14:00	Opened well to aft flare boom via 20/64" adjustable choke.				
07:15:00	Gradually increased adjustable choke to 24/64".				
07:15:00	746.1	53.0	11.2	55.0	8.8
07:17:00	Gradually increased adjustable choke to 46/64".				
07:18:00	Gradually increased adjustable choke to 64/64". Hydrocarbon gas to surface.				
07:20:00	Brine to surface.				
07:23:00	Well slugging brine and gas.				
07:29:00	Well flowing predominantly nitrogen.				
07:30:00	771.7	68.0	189.0	55.0	9.2
07:37:00	Hydrocarbon gas to surface. Commenced gradually increasing adjustable choke to 72/64".				
07:40:00	Gradually increased adjustable choke to 76/64".				
07:42:00	Gradually increased adjustable choke to 80/64".				
07:45:00	674.3	69.0	362.6	63.0	9.7
07:51:00	Manipulated adjustable choke to prevent plugging.				
07:52:00	Gradually increased adjustable choke to 100/64".				
07:54:00	Gradually increased adjustable choke to 112/64". Well slugging hydrocarbon gas and brine.				
08:00:00	Gradually increased adjustable choke to 128/64".				
08:00:00	BS&W = 100% brine, trace sediment, pH = 6 and Chloride contents from refractometer 117,000ppm.				
08:00:00	Draeger showed 1.2 % CO2 by volume & 0 ppm H2S. S.G. of produced water - 1.095 @ 57F.				
08:00:00	635.5	77.0	530.5	74.0	9.7
08:15:00	592.4	78.0	509.2	75.0	9.7
08:30:00	Well flowing predominantly brine, trace sediment.				
08:30:00	607.9	77.0	498.0	76.0	9.7
08:45:00	627.7	78.0	508.9	75.0	9.7
09:00:00	BS&W = 100% brine, trace sediment, pH = 6 and Chloride contents from refractometer 120,000ppm.				
09:00:00	Draeger showed 1.5 % CO2 by volume & 0 ppm H2S. S.G. of produced water - 1.096 @ 52F.				
09:00:00	648.4	78.0	559.0	75.0	9.2
09:15:00	662.3	77.0	557.9	75.0	9.7
09:24:00	Inspected sand catcher for debris. Retrieved traces of rust fragments.				
09:30:00	653.3	76.0	558.6	74.0	9.2
09:39:00	Diverted flow via test separator.				
09:45:00	628.3	76.0	526.4	72.0	9.2
09:50:00	Installed 3.750" orifice plate into gas meter run.				
09:51:00	Raised orifice plate.				
09:53:00	Installed 3.500" orifice plate into gas meter run.				
10:00:00	BS&W = 100% brine pH = 6 and Chloride contents from refractometer 120,000ppm.				
10:00:00	Draeger showed 1.4 % CO2 by volume & 0 ppm H2S. S.G. of produced gas - 0.571. S.G. of produced water - 1.096 @ 52F.				
10:00:00	628.5	75.0	528.9	72.0	9.2
10:15:00	Brine returns at surge tank - 5.25bbbls (calculated rate - 504b/d).				
10:15:00	632.2	75.0	532.5	72.0	8.8
10:30:00	Brine returns at surge tank - 10.5bbbls (calculated rate - 504b/d).				
10:30:00	633.9	75.0	534.2	71.0	9.7
10:45:00	Brine returns at surge tank - 15.7bbbls (calculated rate - 499b/d).				

Client **OMV Australia Pty Ltd** **Exal Engineer** **M. Donald / N. Dowdell**

Well No. **Patricia-2** **Location** **Ocean Bounty**

Test No. **Completion** **Start Date** **30/06 - 01/07/2002**

Time **UcP** **UcT** **DcP** **DcT** **AnnP**
hh:mm:ss **PSIG** **°F** **PSIG** **°F** **PSIG**

03/07/02

10:45:00	631.4	74.0	533.5	71.0	9.7	
11:00:00	BS&W = 100% brine pH = 7 and Chloride contents from refractometer 120,000ppm.					
11:00:00	Draeger showed 1.4 % CO2 by volume & 0 ppm H2S. S.G. of produced gas - 0.576. S.G. of produced water - 1.096 @ 52F.					
11:00:00	Brine returns at surge tank - 19.8bbbls (calculated rate - 394b/d).					
11:00:00	632.2	74.0	535.6	70.0	10.1	
11:15:00	Brine returns at surge tank - 24.2bbbls (calculated rate - 422b/d).					
11:15:00	632.6	74.0	536.3	70.0	10.1	
11:30:00	Brine returns at surge tank - 27.7bbbls (calculated rate - 336b/d).					
11:30:00	632.2	74.0	537.6	70.0	9.7	
11:45:00	Brine returns at surge tank - 30.9bbbls (calculated rate - 302b/d).					
11:45:00	633.3	74.0	538.7	70.0	10.5	
12:00:00	BS&W = 100% brine pH = 7 and Chloride contents from refractometer 225,000ppm.					
12:00:00	Draeger showed 1.4 % CO2 by volume & 0 ppm H2S. S.G. of produced gas - 0.576. S.G. of produced water - 1.095 @ 53F.					
12:00:00	Brine returns at surge tank - 33.9bbbls (calculated rate - 288b/d).					
12:00:00	632.2	74.0	538.3	70.0	9.2	
12:05:00	Inspected sand catcher for debris. Retrieved traces of rust fragments.					
12:15:00	Brine returns at surge tank - 36.1bbbls (calculated rate - 211b/d).					
12:15:00	633.5	74.0	539.7	70.0	9.7	
12:30:00	Brine returns at surge tank - 38.4bbbls (calculated rate - 221b/d).					
12:30:00	635.1	74.0	541.0	70.0	9.7	
12:45:00	Brine returns at surge tank - 40.8bbbls (calculated rate - 230b/d).					
12:45:00	634.9	74.0	541.6	70.0	9.7	
13:00:00	BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.					
13:00:00	Draeger showed 1.5 % CO2 by volume & 0 ppm H2S. S.G. of produced gas - 0.578. S.G. of produced water - 1.093 @ 53F.					
13:00:00	Brine returns at surge tank - 43.4bbbls (calculated rate - 250b/d).					
13:00:00	635.3	75.0	542.2	71.0	10.1	
13:15:00	Brine returns at surge tank - 45.5bbbls (calculated rate - 202b/d).					
13:15:00	634.9	75.0	542.4	71.0	10.5	
13:30:00	Brine returns at surge tank - 47.8bbbls (calculated rate - 221b/d).					
13:30:00	635.3	75.0	542.9	71.0	10.5	
13:45:00	Brine returns at surge tank - 50.0bbbls (calculated rate - 211b/d).					
13:45:00	635.5	75.0	543.2	71.0	10.1	
14:00:00	BS&W = 100% brine pH = 6 and Chloride contents from refractometer 110,000ppm.					
14:00:00	Draeger showed 1.5 % CO2 by volume & 0 ppm H2S. S.G. of produced gas - 0.578. S.G. of produced water - 1.093 @ 52F.					
14:00:00	Brine returns at surge tank - 51.75bbbls (calculated rate - 168b/d).					
14:00:00	635.5	75.0	544.1	71.0	9.7	
14:15:00	Brine returns at surge tank - 53.5bbbls (calculated rate - 168b/d).					
14:15:00	636.1	75.0	544.4	71.0	10.1	
14:30:00	Brine returns at surge tank - 55.2bbbls (calculated rate - 163b/d).					
14:30:00	636.7	75.0	545.7	71.0	10.1	
14:45:00	Brine returns at surge tank - 57.1bbbls (calculated rate - 182b/d).					
14:45:00	637.1	75.0	545.8	71.0	10.1	
15:00:00	BS&W = 100% brine pH = 7 and Chloride contents from refractometer 115,000ppm.					
15:00:00	Draeger showed 1.5 % CO2 by volume & 0 ppm H2S. S.G. of produced gas - 0.582. S.G. of produced water - 1.094 @ 48F.					
15:00:00	Brine returns at surge tank - 58.9bbbls (calculated rate - 173b/d).					
15:00:00	Sample No. 1-1 (0.5 ltr water) and 1-2 (5 ltr water) taken from separator water line.					
15:00:00	638.0	75.0	546.6	71.0	10.5	

Client OMV Australia Pty Ltd **Exal Engineer** M. Donald / N. Dowdell

Well No. Patricia-2 **Location** Ocean Bounty

Test No. Completion **Start Date** 30/06 - 01/07/2002

Time hh:mm:ss	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG
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03/07/02

15:15:00						Brine returns at surge tank - 60.4bbbls (calculated rate - 144b/d).
15:15:00	637.7	75.0	546.5	71.0	9.7	
15:30:00						Brine returns at surge tank - 61.9bbbls (calculated rate - 144b/d).
15:30:00	638.2	75.0	546.7	71.0	10.5	
15:45:00						Brine returns at surge tank - 63.4bbbls (calculated rate - 144b/d).
15:45:00	638.0	75.0	546.5	71.0	10.5	
16:00:00						BS&W = 100% brine pH = 6 and Chloride contents from refractometer 115,000ppm.
16:00:00						Draeger showed 1.5 % CO2 by volume & 0 ppm H2S. S.G. of produced gas - 0.580. S.G. of produced water - 1.094 @ 48F.
16:00:00						Brine returns at surge tank - 64.9bbbls (calculated rate - 144b/d).
16:00:00	638.2	75.0	547.4	71.0	10.5	
16:15:00						Brine returns at surge tank - 66.4bbbls (calculated rate - 144b/d).
16:15:00	638.4	75.0	547.9	71.0	9.7	
16:30:00						Brine returns at surge tank - 67.7bbbls (calculated rate - 125b/d).
16:30:00	638.0	75.0	547.8	71.0	10.1	
16:45:00						Brine returns at surge tank - 69.1bbbls (calculated rate - 134b/d).
16:45:00	638.6	75.0	548.2	71.0	10.5	
17:00:00						BS&W = 100% brine pH = 6 and Chloride contents from refractometer 115,000ppm.
17:00:00						Brine returns at surge tank - 70.3bbbls (calculated rate - 115b/d).
17:00:00						Sample No. 1-3 (0.5 ltr water) and 1-4 (5 ltr water) taken from separator water line.
17:00:00	638.2	75.0	547.9	71.0	9.7	
17:15:00						Brine returns at surge tank - 71.5bbbls (calculated rate - 115b/d).
17:15:00	639.6	75.0	548.5	71.0	10.5	
17:30:00						Brine returns at surge tank - 72.7bbbls (calculated rate - 115b/d).
17:30:00	638.8	75.0	549.0	71.0	10.5	
17:34:00						Raised orifice plate. Diverted flow via choke manifold bypass 3" line.
17:35:00						Installed 3.500" orifice plate into gas meter run.
17:45:00						Brine returns at surge tank - 73.8bbbls (calculated rate - 106b/d).
17:45:00	618.9	75.0	562.1	72.0	10.5	
18:00:00						S.G. of produced gas - 0.580.
18:00:00						Brine returns at surge tank - 75bbbls (calculated rate - 115b/d).
18:00:00	620.2	75.0	563.3	72.0	10.1	
18:15:00						Brine returns at surge tank - 76.4bbbls (calculated rate - 134b/d).
18:15:00	621.0	75.0	564.0	73.0	9.7	
18:30:00						BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.
18:30:00						Brine returns at surge tank - 77.5bbbls (calculated rate - 106b/d).
18:30:00	620.2	75.0	563.9	73.0	10.5	
18:45:00						Brine returns at surge tank - 78.6bbbls (calculated rate - 106b/d).
18:45:00	620.4	75.0	564.1	73.0	10.1	
19:00:00						Brine returns at surge tank - 79.7bbbls (calculated rate - 106b/d).
19:00:00						Sample No. 1-5 (0.5 ltr water) and 1-6 (5 ltr water) taken from separator water line.
19:00:00	620.6	75.0	564.3	73.0	10.5	
19:15:00						Brine returns at surge tank - 80.7bbbls (calculated rate - 95.9b/d).
19:15:00	620.6	75.0	564.4	72.0	10.1	
19:30:00						BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.
19:30:00						Brine returns at surge tank - 81.7bbbls (calculated rate - 95.9b/d).
19:30:00	620.8	75.0	564.6	72.0	10.5	
19:45:00						Brine returns at surge tank - 82.9bbbls (calculated rate - 115b/d).
19:45:00	620.4	75.0	564.6	72.0	10.5	
20:00:00						BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.
20:00:00						Draeger showed 1.5 % CO2 by volume & 0 ppm H2S.
20:00:00						S.G. of produced water - 1.087 @ 60°F. S.G. of produced gas - 0.584.

Client	OMV Australia Pty Ltd	Exal Engineer	M. Donald / N. Dowdell
Well No.	Patricia-2	Location	Ocean Bounty
Test No.	Completion	Start Date	30/06 - 01/07/2002

Time hh:mm:ss	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG
03/07/02					
20:00:00					
	Brine returns at surge tank - 84.1bbbls (calculated rate - 115b/d).				
20:00:00	621.8	75.0	565.2	72.0	10.5
20:15:00					
	Brine returns at surge tank - 85.1bbbls (calculated rate - 96b/d).				
20:15:00	621.0	75.0	565.2	72.0	10.1
20:30:00					
	Brine returns at surge tank - 86.1bbbls (calculated rate - 96b/d).				
20:30:00	621.2	75.0	564.9	72.0	10.5
20:45:00					
	Brine returns at surge tank - 87.1bbbls (calculated rate - 96b/d).				
20:45:00	622.4	75.0	566.3	72.0	10.5
21:00:00					
	BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.				
21:00:00					
	Brine returns at surge tank - 88.1bbbls (calculated rate - 96b/d).				
21:00:00					
	Sample No. 1-7 (0.5 ltr water) and 1-8 (5 ltr water) taken from separator water line.				
21:00:00	621.6	74.0	565.8	72.0	10.1
21:15:00					
	Brine returns at surge tank - 88.9bbbls (calculated rate - 77b/d).				
21:15:00	621.8	74.0	565.7	72.0	9.7
21:30:00					
	Brine returns at surge tank - 89.4bbbls (calculated rate - 48b/d).				
21:30:00	622.0	74.0	565.7	72.0	10.1
21:45:00					
	Brine returns at surge tank - 90.7bbbls (calculated rate - 125b/d).				
21:45:00	622.4	74.0	566.4	71.0	9.7
22:00:00					
	BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.				
22:00:00					
	S.G. of produced gas - 0.586. S.G. of produced water - 1.088 @ 59°F.				
22:00:00					
	Brine returns at surge tank - 91.4bbbls (calculated rate - 67b/d).				
22:00:00	622.4	74.0	566.2	71.0	9.7
22:15:00					
	Brine returns at surge tank - 92.2bbbls (calculated rate - 77b/d).				
22:15:00	622.2	74.0	566.4	71.0	9.7
22:30:00					
	Brine returns at surge tank - 93.1bbbls (calculated rate - 86b/d).				
22:30:00	622.2	74.0	566.4	71.0	9.7
22:45:00					
	Brine returns at surge tank - 93.9bbbls (calculated rate - 77b/d).				
22:45:00	622.8	73.0	566.9	71.0	9.7
23:00:00					
	BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.				
23:00:00					
	Brine returns at surge tank - 94.5bbbls (calculated rate - 58b/d).				
23:00:00					
	Sample No. 1-9 (0.5 ltr water) and 1-10 (4 ltr water) taken from separator water line.				
23:00:00	624.9	73.0	568.7	71.0	10.1
23:15:00					
	Brine returns at surge tank - 95.3bbbls (calculated rate - 77b/d).				
23:15:00	622.4	73.0	566.6	71.0	9.7
23:30:00					
	Brine returns at surge tank - 95.9bbbls (calculated rate - 58b/d).				
23:30:00	625.3	73.0	569.2	71.0	10.5
23:45:00					
	Brine returns at surge tank - 96.5bbbls (calculated rate - 67b/d).				
23:45:00	624.1	73.0	568.6	70.0	9.7

04/07/02					
00:00:00					
	BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.				
00:00:00					
	Draeger showed 1.5 % CO2 by volume & 0 ppm H2S.				
00:00:00					
	S.G. of produced gas - 0.584. S.G. of produced water - 1.087 @ 59°F.				
00:00:00					
	Brine returns at surge tank - 97.3bbbls (calculated rate - 77b/d).				
00:00:00	625.3	73.0	568.7	70.0	10.5
00:15:00					
	Brine returns at surge tank - 98.3bbbls (calculated rate - 96b/d).				
00:15:00	624.1	73.0	567.9	70.0	10.1
00:30:00					
	Brine returns at surge tank - 98.9bbbls (calculated rate - 58b/d).				
00:30:00	623.2	73.0	567.4	70.0	10.1
00:45:00					
	Brine returns at surge tank - 99.5bbbls (calculated rate - 58b/d).				
00:45:00	623.8	73.0	567.8	70.0	10.1
01:00:00					
	BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.				

Client **OMV Australia Pty Ltd** **Exal Engineer** **M. Donald / N. Dowdell**

Well No. **Patricia-2** **Location** **Ocean Bounty**

Test No. **Completion** **Start Date** **30/06 - 01/07/2002**

Time **UcP** **UcT** **DcP** **DcT** **AnnP**
hh:mm:ss **PSIG** **°F** **PSIG** **°F** **PSIG**

04/07/02

01:00:00 Brine returns at surge tank - 100.4bbbls (calculated rate - 86b/d).
01:00:00 Sample No. 1-11 (0.5 ltr water) and 1-12 (4 ltr water) taken from separator water line.
01:00:00 623.6 72.0 568.0 70.0 10.5
01:15:00 Brine returns at surge tank - 100.9bbbls (calculated rate - 48b/d).
01:15:00 623.6 72.0 568.0 70.0 10.5
01:27:00 Bled down scrubber pots on differential cell due to pots being full of water.
01:30:00 Brine returns at surge tank - 101.6bbbls (calculated rate - 67b/d).
01:30:00 623.4 72.0 567.8 70.0 9.7
01:45:00 Brine returns at surge tank - 102.6bbbls (calculated rate - 96b/d).
01:45:00 624.7 72.0 568.6 70.0 9.7
02:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.
02:00:00 S.G. of produced gas - 0.586. S.G. of produced water - 1.088 @ 58°F.
02:00:00 Brine returns at surge tank - 103bbbls (calculated rate - 38b/d).
02:00:00 623.8 73.0 568.5 70.0 10.1
02:15:00 Brine returns at surge tank - 103.9bbbls (calculated rate - 86b/d).
02:15:00 623.6 72.0 568.0 70.0 9.7
02:30:00 Brine returns at surge tank - 104.3bbbls (calculated rate - 38b/d).
02:30:00 625.5 72.0 569.3 70.0 9.7
02:45:00 Brine returns at surge tank - 105.2bbbls (calculated rate - 86b/d).
02:45:00 625.1 72.0 568.7 70.0 9.7
03:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 109,000ppm.
03:00:00 Brine returns at surge tank - 105.8bbbls (calculated rate - 58b/d).
03:00:00 Sample No. 1-13 (0.5 ltr water) and 1-14 (4 ltr water) taken from separator water line.
03:00:00 624.5 73.0 568.7 70.0 9.7
03:15:00 Brine returns at surge tank - 106.4bbbls (calculated rate - 58b/d).
03:15:00 624.7 73.0 568.6 70.0 9.7
03:30:00 Brine returns at surge tank - 107.4bbbls (calculated rate - 96b/d).
03:30:00 625.1 73.0 569.1 70.0 10.1
03:42:00 Raised orifice plate to check Barton differential cell - drained excess water from scrubbers.
03:45:00 Brine returns at surge tank - 107.7bbbls (calculated rate - 29b/d).
03:45:00 622.6 73.0 566.5 70.0 9.7
03:47:00 Installed 3.500" orifice plate into meter run.
04:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.
04:00:00 Draeger showed 1.5 % CO2 by volume & 0 ppm H2S.
04:00:00 S.G. of produced gas - 0.586. S.G. of produced water - 1.088 @ 58°F.
04:00:00 Brine returns at surge tank - 108.3bbbls (calculated rate - 58b/d).
04:00:00 625.1 73.0 569.2 70.0 9.2
04:15:00 Brine returns at surge tank - 109.2bbbls (calculated rate - 86b/d).
04:15:00 625.5 73.0 569.4 70.0 10.1
04:30:00 Brine returns at surge tank - 109.8bbbls (calculated rate - 58b/d).
04:30:00 625.1 73.0 569.1 71.0 10.1
04:45:00 Brine returns at surge tank - 110bbbls (calculated rate - 19b/d).
04:45:00 625.3 73.0 569.4 71.0 9.2
05:00:00 BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.
05:00:00 Sample No. 1-15 (0.5 ltr water) and 1-16 (4 ltr water) taken from separator water line.
05:00:00 Brine returns at surge tank - 110.7bbbls (calculated rate - 67b/d).
05:00:00 625.1 73.0 569.4 71.0 9.2
05:15:00 Brine returns at surge tank - 111.2bbbls (calculated rate - 48b/d).
05:15:00 625.7 73.0 569.9 71.0 9.2
05:30:00 Brine returns at surge tank - 111.9bbbls (calculated rate - 67b/d).
05:30:00 625.7 73.0 569.7 71.0 9.7

Client	OMV Australia Pty Ltd	Exal Engineer	M. Donald / N. Dowdell
Well No.	Patricia-2	Location	Ocean Bounty
Test No.	Completion	Start Date	30/06 - 01/07/2002

Time hh:mm:ss	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG
04/07/02					
05:45:00					
05:45:00	626.5	74.0	570.7	71.0	10.5
06:00:00	BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.				
06:00:00					
06:00:00	625.5	73.0	570.3	71.0	9.7
06:15:00	Brine returns at surge tank - 113.5bbbls (calculated rate - 67b/d).				
06:15:00	626.1	73.0	570.3	71.0	9.7
06:28:00	BJ coiled tubing conducted pick up weight test. Brief pressure increase observed at choke manifold.				
06:30:00	Brine returns at surge tank - 114bbbls (calculated rate - 48b/d).				
06:30:00	646.9	74.0	591.6	71.0	10.1
06:45:00	Brine returns at surge tank - 114.6bbbls (calculated rate - 58b/d).				
06:45:00	627.1	74.0	571.7	71.0	10.5
07:00:00	BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.				
07:00:00	Brine returns at surge tank - 115bbbls (calculated rate - 38b/d).				
07:00:00	Sample No. 1-17 (0.5 ltr water) and 1-18 (4 ltr water) taken from separator water line.				
07:00:00	627.1	73.0	572.2	70.0	10.5
07:15:00	Brine returns at surge tank - 115.5bbbls (calculated rate - 48b/d).				
07:15:00	627.7	73.0	572.4	70.0	10.5
07:30:00	BJ coiled tubing commenced running in hole to 1365mRT for pressure/temperature log #1.				
07:30:00	Brine returns at surge tank - 116.1bbbls (calculated rate - 58b/d).				
07:30:00	627.9	73.0	572.7	70.0	10.5
07:45:00	Brine returns at surge tank - 116.6bbbls (calculated rate - 48b/d).				
07:45:00	627.5	73.0	572.8	70.0	9.2
08:00:00	BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.				
08:00:00	Draeger showed 1.5 % CO2 by volume & 0 ppm H2S.				
08:00:00	S.G. of produced gas - 0.582. S.G. of produced water - 1.085 @ 59°F.				
08:00:00	Brine returns at surge tank - 117.1bbbls (calculated rate - 48b/d).				
08:00:00	626.1	73.0	571.4	70.0	9.2
08:15:00	Brine returns at surge tank - 117.7bbbls (calculated rate - 58b/d).				
08:15:00	627.5	73.0	573.0	70.0	10.5
08:19:00	BJ coiled tubing on depth at 1365mRT.				
08:30:00	Brine returns at surge tank - 118bbbls (calculated rate - 29b/d).				
08:30:00	630.4	73.0	575.4	70.0	10.1
08:33:00	BJ coiled tubing commenced pulling out of hole to 892mRT.				
08:45:00	Brine returns at surge tank - 118.4bbbls (calculated rate - 38b/d).				
08:45:00	622.0	74.0	567.5	71.0	10.1
09:00:00	BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.				
09:00:00	Brine returns at surge tank - 119bbbls (calculated rate - 58b/d).				
09:00:00	616.1	73.0	560.5	71.0	10.5
09:15:00	Brine returns at surge tank - 119.8bbbls (calculated rate - 77b/d).				
09:15:00	624.9	73.0	569.1	70.0	10.1
09:20:00	BJ coiled tubing on depth at 892mRT.				
09:30:00	Brine returns at surge tank - 120.4bbbls (calculated rate - 58b/d).				
09:30:00	629.0	73.0	573.8	70.0	10.5
09:45:00	Brine returns at surge tank - 120.9bbbls (calculated rate - 48b/d).				
09:45:00	629.6	73.0	574.5	70.0	10.5
10:00:00	BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.				
10:00:00	S.G. of produced gas - 0.582. S.G. of produced water - 1.085 @ 59°F.				
10:00:00	Brine returns at surge tank - 121.5bbbls (calculated rate - 58b/d).				
10:00:00	629.8	73.0	574.4	70.0	10.5

Client **OMV Australia Pty Ltd** **Exal Engineer** **M. Donald / N. Dowdell**

Well No. **Patricia-2** **Location** **Ocean Bounty**

Test No. **Completion** **Start Date** **30/06 - 01/07/2002**

Time hh:mm:ss	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG
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04/07/02

10:15:00	Brine returns at surge tank - 121.9bbbls (calculated rate - 38b/d).				
10:15:00	630.0	73.0	574.9	70.0	10.9
10:30:00	Brine returns at surge tank - 122.5bbbls (calculated rate - 58b/d).				
10:30:00	629.8	73.0	575.1	70.0	11.3
10:45:00	Brine returns at surge tank - 122.9bbbls (calculated rate - 38b/d).				
10:45:00	630.0	73.0	575.5	70.0	10.5
10:55:00	Lifted orifice plate. Closed in well at choke manifold.				
11:00:00	Inspected junk catcher. Observed small amounts of rock gravel. Samples supplied to OMV representative.				
11:00:00	Total Brine returns at surge tank - 123.4bbbls.				
11:00:00	958.9	79.0	2.1	64.0	11.7
11:15:00	963.8	66.0	1.0	65.0	10.5
11:30:00	965.7	61.0	1.8	63.0	8.0
11:45:00	967.1	59.0	1.4	62.0	8.0
12:00:00	968.1	57.0	1.0	61.0	7.6
12:15:00	969.1	57.0	1.4	60.0	7.2
12:30:00	969.7	56.0	1.4	59.0	6.4
12:45:00	970.4	56.0	1.4	59.0	6.4
13:00:00	970.8	56.0	1.4	59.0	6.0
13:15:00	971.4	57.0	1.1	59.0	6.4
13:30:00	972.2	57.0	1.8	59.0	6.4
13:45:00	972.6	57.0	1.9	59.0	6.0
14:00:00	973.0	57.0	1.4	59.0	6.0
14:15:00	973.4	57.0	1.5	59.0	6.0
14:30:00	973.2	57.0	1.4	59.0	6.0
14:45:00	974.2	57.0	1.5	59.0	5.6
15:00:00	975.1	57.0	1.9	58.0	6.0
15:15:00	974.9	56.0	1.6	58.0	6.4
15:30:00	Well opened to Aft flare boom via 16/64" adjustable choke.				
15:30:00	975.5	55.0	0.6	57.0	6.4
15:31:00	Increased adjustable choke to 20/64".				
15:32:00	Increased adjustable choke to 24/64".				
15:34:00	Increased adjustable choke to 28/64".				
15:35:00	Increased adjustable choke to 32/64".				
15:36:00	Diverted flow via 32/64" fixed choke. Diverted flow via test separator.				
15:45:00	960.1	60.0	345.6	23.0	6.8
16:00:00	Diverted flow via 36/64" adjustable choke.				
16:00:00	958.7	61.0	263.9	25.0	6.4
16:01:00	Increased adjustable choke to 40/64". Ceased methanol injection upstream of choke manifold.				
16:03:00	Increased adjustable choke to 44/64".				
16:07:00	Diverted flow via 40/64" fixed choke.				
16:15:00	943.8	64.0	379.3	32.0	7.2
16:30:00	943.2	65.0	384.9	34.0	7.2
16:45:00	942.6	66.0	384.4	35.0	8.0
17:00:00	BS&W = 100% brine pH = 7 and Chloride contents from refractometer 110,000ppm.				
17:00:00	S.G. of produced gas - 0.582. S.G. of produced water - 1.085 @ 59°F.				
17:00:00	942.3	66.0	383.4	35.0	8.8
17:15:00	942.3	67.0	383.5	36.0	9.2
17:30:00	Exal commenced taking 1st PVT sample No. 1-19 (gas - bottle No. 2357-C1-F).				
17:30:00	942.3	66.0	385.2	36.0	10.1
17:45:00	Completed taking 1st PVT sample.				

Client	OMV Australia Pty Ltd	Exal Engineer	M. Donald / N. Dowdell
Well No.	Patricia-2	Location	Ocean Bounty
Test No.	Completion	Start Date	30/06 - 01/07/2002

Time hh:mm:ss	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG
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04/07/02

17:45:00	Exal commenced taking 2nd PVT sample No. 1-20 (gas - bottle No. 3416-C1-F).				
17:45:00	942.3	66.0	384.5	36.0	10.5
18:00:00	Completed taking 2nd PVT sample.				
18:00:00	BS&W showed dry gas.				
18:00:00	S.G. of produced gas - 0.584.				
18:00:00	941.7	66.0	383.5	36.0	10.9
18:15:00	941.3	67.0	384.8	36.0	11.7
18:30:00	941.3	66.0	383.2	36.0	12.5
18:45:00	940.9	66.0	382.4	35.0	12.9
19:00:00	BS&W showed dry gas.				
19:00:00	940.7	67.0	384.1	36.0	12.5
19:15:00	938.9	67.0	384.5	37.0	12.9
19:30:00	938.5	67.0	383.8	37.0	12.5
19:45:00	938.9	67.0	383.9	37.0	13.3
20:00:00	Raised orifice plate.				
20:00:00	Diverted flow through 44/64" adjustable choke.				
20:00:00	938.5	67.0	378.3	36.0	13.8
20:01:00	Increased adjustable choke to 48/64".				
20:03:00	Increased adjustable choke to 50/64".				
20:05:00	Increased adjustable choke to 56/64".				
20:07:00	Increased adjustable choke to 60/64".				
20:11:00	Increased adjustable choke to 62/64".				
20:12:00	Increased adjustable choke to 66/64".				
20:15:00	Brine returns at surge tank - 124.2bbls (calculated rate - 77b/d).				
20:15:00	778.4	69.0	415.6	49.0	13.8
20:18:00	Diverted flow via 64/64" fixed choke.				
20:23:00	Installed 3.000" orifice plate into meter run.				
20:25:00	Raised orifice plate.				
20:28:00	Installed 3.25" orifice plate into meter run.				
20:30:00	Brine returns at surge tank - 125bbls (calculated rate - 77b/d).				
20:30:00	799.9	71.0	432.7	52.0	15.0
20:45:00	798.6	72.0	424.3	52.0	15.4
21:00:00	BS&W = 100% brine pH = 7 and Chloride contents from refractometer 100,000ppm.				
21:00:00	S.G. of produced gas - 0.586.				
21:00:00	798.8	73.0	425.0	53.0	14.6
21:15:00	799.7	73.0	426.0	54.0	14.6
21:30:00	Brine returns at surge tank - 125.4bbls (calculated rate - 38b/d).				
21:30:00	801.7	74.0	426.1	54.0	14.2
21:45:00	Brine returns at surge tank - 126.2bbls (calculated rate - 77b/d).				
21:45:00	800.3	74.0	426.2	54.0	14.6
22:00:00	Brine returns at surge tank - 126.7bbls (calculated rate - 48b/d).				
22:00:00	800.9	74.0	426.4	55.0	14.2
22:15:00	801.1	75.0	425.5	55.0	13.8
22:30:00	801.7	75.0	426.2	55.0	13.8
22:45:00	801.1	75.0	425.8	56.0	13.8
23:00:00	BS&W = 100% brine pH = 7 and Chloride contents from refractometer 100,000ppm.				
23:00:00	Draeger showed 1.5 % CO2 by volume & 0 ppm H2S.				
23:00:00	Exal commenced taking 3rd PVT sample No. 1-21 (gas - bottle No. 0687-C1-F).				
23:00:00	Sample No. 1-22 (0.5 ltr water) and 1-23 (4 ltr water) taken from separator water line.				
23:00:00	Brine returns at surge tank - 127.2bbls (calculated rate - 48b/d).				
23:00:00	801.1	75.0	425.0	56.0	13.3
23:15:00	Completed taking 3rd PVT sample.				

Client	OMV Australia Pty Ltd	Exal Engineer	M. Donald / N. Dowdell
Well No.	Patricia-2	Location	Ocean Bounty
Test No.	Completion	Start Date	30/06 - 01/07/2002

Time hh:mm:ss	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG
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04/07/02

23:15:00	Brine returns at surge tank - 127.4bbbls (calculated rate - 19b/d).				
23:15:00	801.9	76.0	424.9	56.0	12.9
23:30:00	Brine returns at surge tank - 127.5bbbls (calculated rate - 10b/d).				
23:30:00	800.7	76.0	424.9	56.0	12.9
23:45:00	799.7	76.0	424.1	56.0	12.9

05/07/02

00:00:00	BS&W = 100% brine pH = 7 and Chloride contents from refractometer 100,000ppm.				
00:00:00	S.G. of produced gas - 0.586.				
00:00:00	S.G. of produced water - 1.083 @ 52°F.				
00:00:00	Brine returns at surge tank - 128bbbls (calculated rate - 48b/d).				
00:00:00	800.1	76.0	424.4	56.0	13.3
00:15:00	Brine returns at surge tank - 128.2bbbls (calculated rate - 19b/d).				
00:15:00	798.4	76.0	423.5	56.0	13.3
00:30:00	Brine returns at surge tank - 128.7bbbls (calculated rate - 48b/d).				
00:30:00	797.0	76.0	421.6	57.0	12.1
00:45:00	Brine returns at surge tank - 129.1bbbls (calculated rate - 38b/d).				
00:45:00	797.0	76.0	422.2	57.0	11.7
01:00:00	BS&W = 100% brine pH = 7 and Chloride contents from refractometer 92,000ppm.				
01:00:00	S.G. of produced gas - 0.586.				
01:00:00	S.G. of produced water - 1.080 @ 54°F.				
01:00:00	Brine returns at surge tank - 129.3bbbls (calculated rate - 19b/d).				
01:00:00	796.6	76.0	423.3	57.0	12.1
01:15:00	Brine returns at surge tank - 129.4bbbls (calculated rate - 10b/d).				
01:15:00	797.2	76.0	422.5	57.0	12.5
01:30:00	Brine returns at surge tank - 129.8bbbls (calculated rate - 38b/d).				
01:30:00	797.0	76.0	422.0	57.0	12.1
01:45:00	Brine returns at surge tank - 130.2bbbls (calculated rate - 38b/d).				
01:45:00	795.8	76.0	421.5	57.0	12.1
01:59:00	Raised orifice plate.				
02:00:00	BS&W = 100% brine pH = 7 and Chloride contents from refractometer 96,000ppm.				
02:00:00	Diverted flow through 66/64" adjustable choke.				
02:00:00	795.8	76.0	417.8	57.0	12.1
02:01:00	Increased adjustable choke to 70/64".				
02:02:00	Increased adjustable choke to 74/64".				
02:03:00	Increased adjustable choke to 78/64".				
02:04:00	Increased adjustable choke to 82/64".				
02:05:00	Increased adjustable choke to 86/64".				
02:07:00	Increased adjustable choke to 90/64".				
02:08:00	Increased adjustable choke to 94/64".				
02:09:00	Increased adjustable choke to 98/64".				
02:10:00	Increased adjustable choke to 102/64".				
02:11:00	Increased adjustable choke to 106/64".				
02:13:00	Increased adjustable choke to 110/64".				
02:15:00	637.3	74.0	537.8	69.0	11.3
02:17:00	Increased adjustable choke to 128/64".				
02:19:00	Opened bypass valve on choke manifold.				
02:20:00	Diverted flow via choke manifold bypass 3" line.				
02:24:00	Installed 3.750" orifice plate into meter run.				
02:30:00	Brine returns at surge tank - 131.5bbbls (calculated rate - 125b/d).				
02:30:00	620.2	74.0	564.4	72.0	11.3
02:45:00	Brine returns at surge tank - 132.1bbbls (calculated rate - 58b/d).				

Client	OMV Australia Pty Ltd	Exal Engineer	M. Donald / N. Dowdell
Well No.	Patricia-2	Location	Ocean Bounty
Test No.	Completion	Start Date	30/06 - 01/07/2002

Time hh:mm:ss	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG
<u>05/07/02</u>					
02:45:00	624.9	74.0	569.3	72.0	11.3
03:00:00	BS&W = 100% brine pH = 7 and Chloride contents from refractometer 100,000ppm.				
03:00:00	S.G. of produced gas - 0.586. S.G. of produced water - 1.082 @ 58°F.				
03:00:00	Draeger showed 1.3 % CO2 by volume & 0 ppm H2S.				
03:00:00	Brine returns at surge tank - 132.9bbbls (calculated rate - 77b/d).				
03:00:00	625.7	75.0	570.2	72.0	10.1
03:15:00	Brine returns at surge tank - 133.5bbbls (calculated rate - 58b/d).				
03:15:00	625.7	75.0	570.5	72.0	10.1
03:30:00	Brine returns at surge tank - 134.3bbbls (calculated rate - 77b/d).				
03:30:00	627.3	75.0	571.6	72.0	10.5
03:45:00	Brine returns at surge tank - 134.5bbbls (calculated rate - 19b/d).				
03:45:00	627.7	75.0	572.4	72.0	10.1
04:00:00	BS&W = 100% brine pH = 7 and Chloride contents from refractometer 100,000ppm.				
04:00:00	S.G. of produced gas - 0.586. S.G. of produced water - 1.078 @ 61°F.				
04:00:00	Brine returns at surge tank - 134.8bbbls (calculated rate - 29b/d).				
04:00:00	629.8	75.0	574.7	73.0	10.5
04:15:00	Brine returns at surge tank - 135.1bbbls (calculated rate - 29b/d).				
04:15:00	630.0	75.0	574.6	73.0	10.9
04:30:00	Brine returns at surge tank - 135.4bbbls (calculated rate - 29b/d).				
04:30:00	630.2	75.0	575.1	72.0	10.5
04:45:00	Brine returns at surge tank - 135.9bbbls (calculated rate - 48b/d).				
04:45:00	630.8	75.0	575.8	73.0	10.1
05:00:00	BS&W = 100% brine pH = 7 and Chloride contents from refractometer 100,000ppm.				
05:00:00	Brine returns at surge tank - 136.3bbbls (calculated rate - 38b/d).				
05:00:00	631.2	75.0	576.3	73.0	10.9
05:15:00	Brine returns at surge tank - 136.9bbbls (calculated rate - 58b/d).				
05:15:00	631.2	75.0	576.2	73.0	10.5
05:30:00	Brine returns at surge tank - 137.3bbbls (calculated rate - 38b/d).				
05:30:00	631.4	75.0	576.5	73.0	10.5
05:45:00	Brine returns at surge tank - 137.8bbbls (calculated rate - 48b/d).				
05:45:00	631.8	75.0	577.0	73.0	10.5
06:00:00	BS&W = 100% brine pH = 7 and Chloride contents from refractometer 99,000ppm.				
06:00:00	Brine returns at surge tank - 138.3bbbls (calculated rate - 38b/d).				
06:00:00	632.0	76.0	577.0	73.0	10.5
06:15:00	Brine returns at surge tank - 138.8bbbls (calculated rate - 48b/d).				
06:15:00	632.0	76.0	577.0	73.0	10.1
06:30:00	Brine returns at surge tank - 139.1bbbls (calculated rate - 29b/d).				
06:30:00	632.2	76.0	577.3	73.0	10.5
06:45:00	Brine returns at surge tank - 139.5bbbls (calculated rate - 38b/d).				
06:45:00	631.4	76.0	577.0	73.0	10.1
07:00:00	BS&W = 100% brine pH = 6 and Chloride contents from refractometer 100,000ppm.				
07:00:00	S.G. of produced gas - 0.586. S.G. of produced water - 1.082 @ 63°F.				
07:00:00	Brine returns at surge tank - 139.8bbbls (calculated rate - 29b/d).				
07:00:00	631.6	76.0	577.1	73.0	10.1
07:15:00	Brine returns at surge tank - 140bbbls (calculated rate - 19b/d).				
07:15:00	631.8	76.0	577.0	73.0	12.5
07:30:00	Brine returns at surge tank - 142bbbls (calculated rate - 19b/d).				
07:30:00	632.6	76.0	577.8	73.0	12.9
07:45:00	Brine returns at surge tank - 142.4bbbls (calculated rate - 38b/d).				
07:45:00	632.8	76.0	577.7	73.0	13.3
08:00:00	BS&W = 100% brine pH = 7 and Chloride contents from refractometer 100,000ppm.				
08:00:00	Brine returns at surge tank - 142.8bbbls (calculated rate - 38b/d).				

Client	OMV Australia Pty Ltd	Exal Engineer	M. Donald / N. Dowdell
Well No.	Patricia-2	Location	Ocean Bounty
Test No.	Completion	Start Date	30/06 - 01/07/2002

Time hh:mm:ss	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG
<u>05/07/02</u>					
08:00:00	633.0	76.0	577.9	73.0	12.9
08:15:00	Brine returns at surge tank - 143.2bbbls (calculated rate - 38b/d).				
08:15:00	632.8	76.0	577.8	73.0	12.1
08:30:00	Brine returns at surge tank - 143.5bbbls (calculated rate - 29b/d).				
08:30:00	632.2	76.0	577.5	73.0	12.1
08:45:00	Brine returns at surge tank - 144.1bbbls (calculated rate - 58b/d).				
08:45:00	631.4	76.0	577.2	73.0	12.1
09:00:00	BS&W = 100% brine pH = 7 and Chloride contents from refractometer 100,000ppm.				
09:00:00	S.G. of produced gas - 0.582. S.G. of produced water - 1.082 @ 63°F.				
09:00:00	Brine returns at surge tank - 144.6bbbls (calculated rate - 48b/d).				
09:00:00	632.8	76.0	577.8	73.0	12.5
09:15:00	Brine returns at surge tank - 144.8bbbls (calculated rate - 19b/d).				
09:15:00	632.6	76.0	577.6	73.0	11.7
09:30:00	Brine returns at surge tank - 145.2bbbls (calculated rate - 38b/d).				
09:30:00	632.6	76.0	577.6	74.0	11.3
09:45:00	Brine returns at surge tank - 145.7bbbls (calculated rate - 19b/d).				
09:45:00	633.0	76.0	577.8	73.0	11.7
09:55:00	Sample No. 1-24 (0.5 ltr water) taken from separator water line.				
10:00:00	BS&W = 100% brine pH = 7 and Chloride contents from refractometer 100,000ppm.				
10:00:00	Well shut in at choke manifold.				
10:00:00	641.4	75.0	580.0	74.0	15.8
10:15:00	960.5	73.0	0.5	69.0	12.1
10:30:00	963.4	67.0	0.2	66.0	11.7
10:45:00	964.4	63.0	0.2	64.0	11.3
11:00:00	964.0	61.0	0.0	63.0	11.3
11:15:00	967.5	60.0	0.2	62.0	10.9
11:30:00	967.7	59.0	0.4	61.0	10.5
11:45:00	967.1	59.0	0.1	60.0	10.9
12:00:00	969.3	60.0	0.0	59.0	10.9
12:15:00	970.2	60.0	0.0	59.0	10.9
12:30:00	969.7	60.0	0.0	59.0	10.5
12:45:00	969.5	61.0	0.0	59.0	10.1
13:00:00	969.9	61.0	0.0	59.0	10.9
13:15:00	971.4	61.0	0.0	59.0	10.1
13:24:00	BJ coiled tubing commenced pulling out of hole.				
13:30:00	972.2	61.0	0.9	60.0	10.1
13:45:00	971.6	61.0	1.0	60.0	10.1
14:00:00	972.0	61.0	0.3	61.0	10.9
14:15:00	971.0	61.0	0.0	61.0	10.9
14:30:00	972.8	61.0	0.5	61.0	10.9
14:39:00	BJ coiled tubing at surface.				
14:45:00	Closed TRSCSSV. Slowly bled off well head pressure to 775psi.				
14:45:00	974.9	61.0	1.9	61.0	10.9
14:47:00	Wellhead pressure at 775psi. Commenced inflow test of TRSCSSV.				
15:00:00	813.4	60.0	0.6	52.0	10.1
15:10:00	Closed SSLV.				
15:10:00	Bled off pressure above SSLV via choke manifold to aft flare boom.				
15:15:00	15.5	51.0	10.5	46.0	11.3
15:20:00	Completed bleeding off pressure.				
15:22:00	Closed swab valve and master valve on Expro flowhead.				
15:30:00	BJ coiled tubing commenced rigging down.				
15:30:00	3.4	56.0	1.2	54.0	10.5

Client **OMV Australia Pty Ltd** **Exal Engineer** **M. Donald / N. Dowdell**

Well No. **Patricia-2** **Location** **Ocean Bounty**

Test No. **Completion** **Start Date** **30/06 - 01/07/2002**

Time hh:mm:ss	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG
<u>05/07/02</u>					
15:45:00	3.8	58.0	0.6	55.0	10.5
16:00:00	2.8	58.0	0.5	56.0	10.9
16:15:00	3.0	58.0	0.2	57.0	10.5
16:30:00	2.4	58.0	0.3	57.0	10.9
16:45:00	2.2	57.0	0.2	58.0	10.1
17:00:00	3.4	57.0	1.0	57.0	10.1
17:15:00	1.6	55.0	0.3	56.0	10.9
17:30:00	BJ coiled tubing completed rigging down. Expro wireline commenced rigging up.				
17:30:00	1.8	54.0	0.3	56.0	10.1
17:45:00	2.4	54.0	0.3	55.0	10.9
18:00:00	2.0	54.0	0.0	55.0	10.1
18:15:00	1.8	54.0	0.0	55.0	10.1
18:22:00	Opened swab valve and master valve on Expro flowhead.				
18:27:00	Opened lo-torque valve on kill line.				
18:30:00	Locked open master valve on flowhead.				
18:30:00	2.6	54.0	0.0	55.0	10.5
18:43:00	Commenced pressure testing Expro wireline lubricator against SSLV to 3,000psi.				
18:45:00	2220.5	56.0	0.6	56.0	10.5
18:56:00	Good test. Bled off pressure to 980psi via choke manifold. Opened SSLV.				
18:57:00	Expro wireline commenced running in hole with brush.				
19:00:00	946.8	55.0	0.6	57.0	9.7
19:07:00	Expro wireline at surface.				
19:10:00	Closed SSLV and master valve on flowhead.				
19:15:00	952.0	55.0	0.7	57.0	9.7
19:17:00	Bled off pressure via choke manifold. Broke out lubricator. Inspected toolstring - brush not present.				
19:30:00	Made up fishing tool to Expro wireline toolstring. Stabbed lubricator.				
19:30:00	2.2	54.0	0.6	56.0	9.7
19:45:00	2.0	54.0	0.0	56.0	10.1
19:52:00	Commenced pressuring up above flowhead master valve to 980psi.				
20:00:00	Opened SSLV and master valve on flowhead.				
20:00:00	961.4	56.0	0.0	56.0	10.1
20:06:00	Expro wireline commenced running in hole to fish brush.				
20:10:00	Expro wireline at surface.				
20:15:00	988.3	55.0	0.0	56.0	9.2
20:16:00	Closed SSLV and master valve on flowhead.				
20:20:00	Bled off pressure via choke manifold. Broke out lubricator. Removed brush and fishing tool.				
20:30:00	2.2	54.0	0.3	56.0	9.2
20:45:00	Installed SSR plug onto wireline toolstring. Stabbed lubricator.				
20:45:00	2.2	55.0	0.2	56.0	10.1
21:00:00	Pressured up above master valve on flowhead to 980psi. Opened SSLV and master valve.				
21:00:00	979.8	56.0	0.0	56.0	10.5
21:05:00	Expro wireline commenced running in hole to set SSR plug in tubing hanger.				
21:08:00	Expro wireline on depth with SSR plug. Commenced gradually pressuring up above SSR plug to 3,000psi to set.				
21:15:00	1222.0	55.0	0.1	56.0	9.7
21:25:00	Wellhead pressure at 3,000psi.				
21:30:00	2972.4	55.0	0.1	56.0	9.7
21:35:00	Expro wireline commenced hand jarring on plug to set.				
21:41:00	Expro wireline sheared off plug. Commenced pulling out of hole.				

Client OMV Australia Pty Ltd **Exal Engineer** M. Donald / N. Dowdell

Well No. Patricia-2 **Location** Ocean Bounty

Test No. Completion **Start Date** 30/06 - 01/07/2002

Time hh:mm:ss	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG
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05/07/02

21:45:00 Expro wireline at surface.

21:45:00	2981.3	55.0	0.3	56.0	9.7
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21:47:00 Commenced slowly bleeding down pressure above SSR plug via choke manifold.

21:58:00 Closed in choke manifold. Wellhead pressure at 200psi. Commenced in-flow testing plug.

22:00:00	233.6	48.0	0.2	36.0	9.7
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22:15:00	241.8	52.0	0.2	41.0	9.7
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22:17:00 Good test. Bled off pressure above SSR plug to zero via choke manifold.

22:27:00 Expro wireline commenced rigging down.

22:30:00 End of Completion Test.



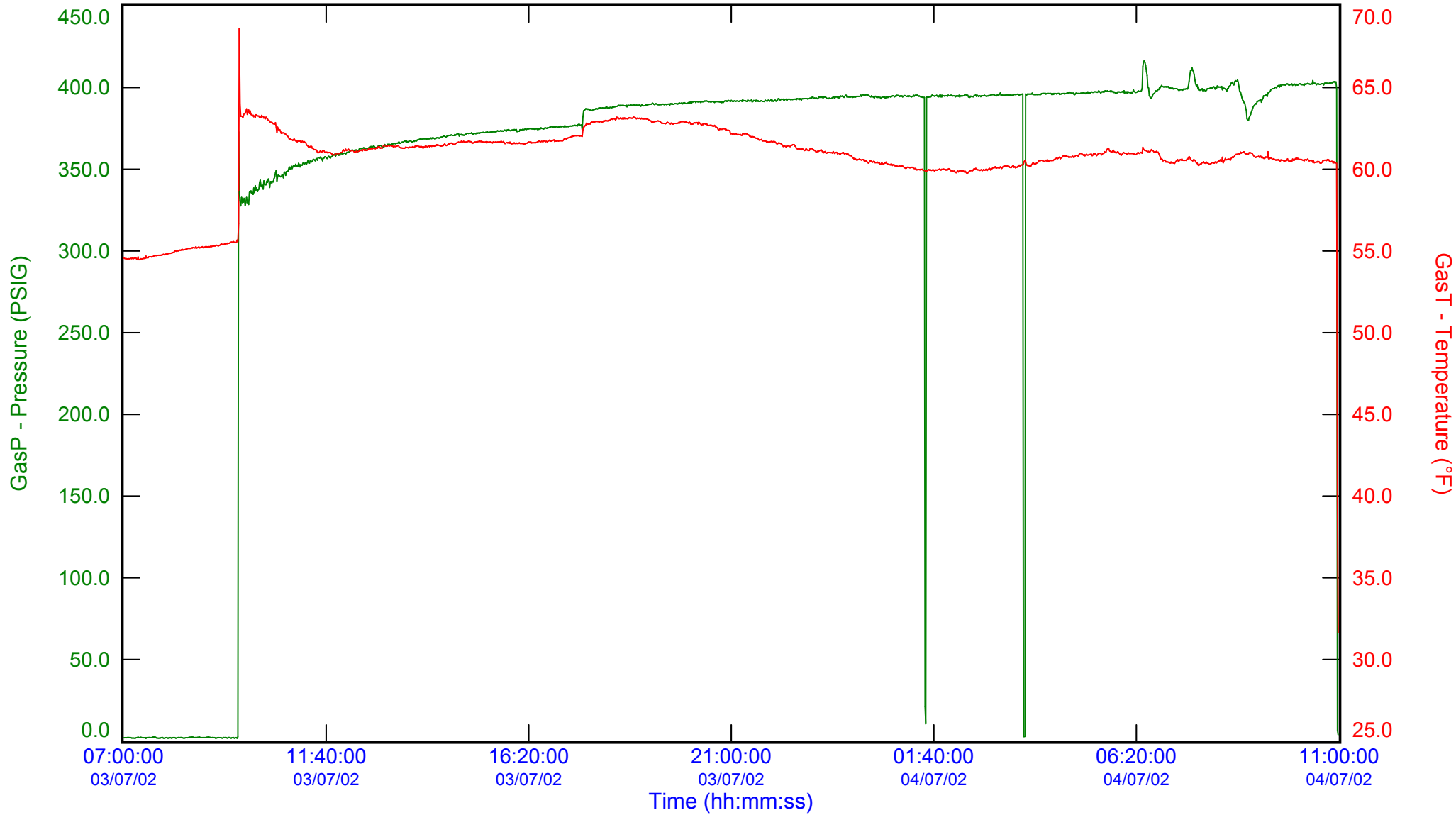
Separator Data Listing

Client	OMV Australia Pty Ltd
Well No.	Patricia-2
Test No.	Completion
Location	Ocean Bounty
Start Date	30/06 - 01/07/2002
Country	Australia
Field	VIC/L21
Job Number	J02/188
Formation	Gurnard
Exal Engineer	M. Donald / N. Dowdell
Client Engineer	A. Ion
Perforations	n/a



Client OMV Australia Pty Ltd
Well No. Patricia-2
Test No. Completion
Location Ocean Bounty

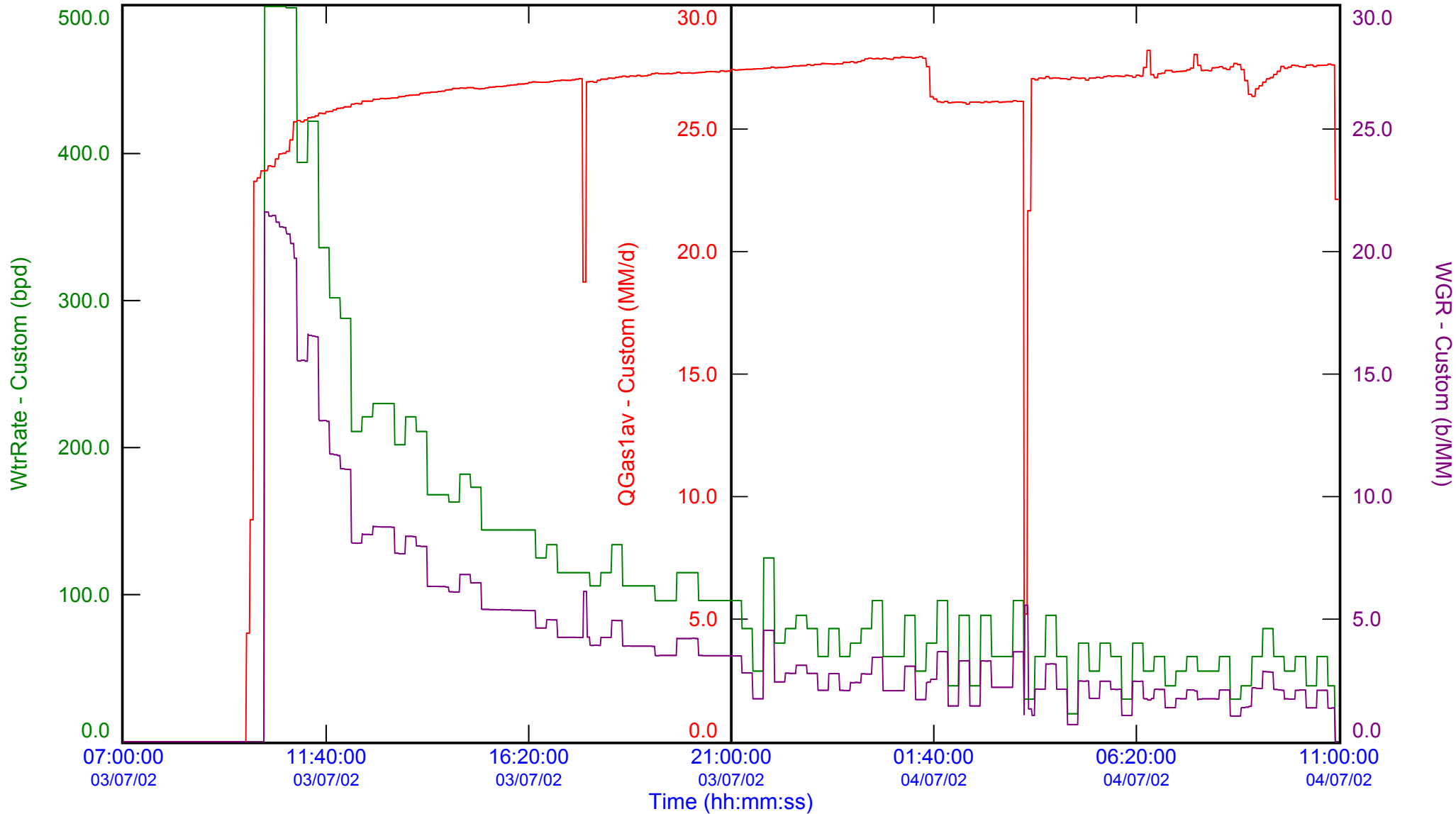
Data Type EDGE Data
Comments GasP vs GasT - Cleanup Flow





Client OMV Australia Pty Ltd
Well No. Patricia-2
Test No. Completion
Location Ocean Bounty

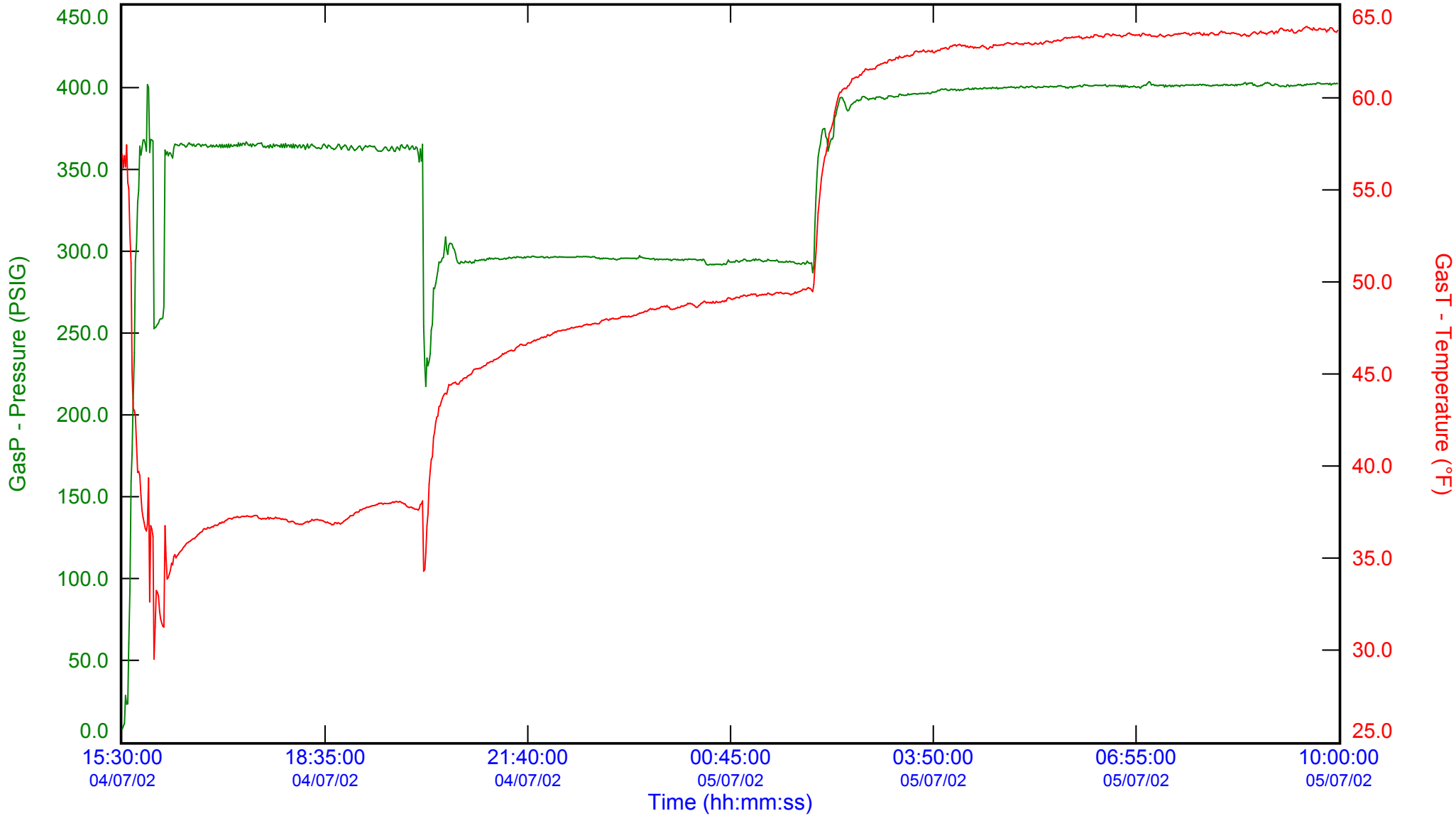
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Comments WaterRate / GasRate / WGR
- Cleanup Flow





Client OMV Australia Pty Ltd
Well No. Patricia-2
Test No. Completion
Location Ocean Bounty

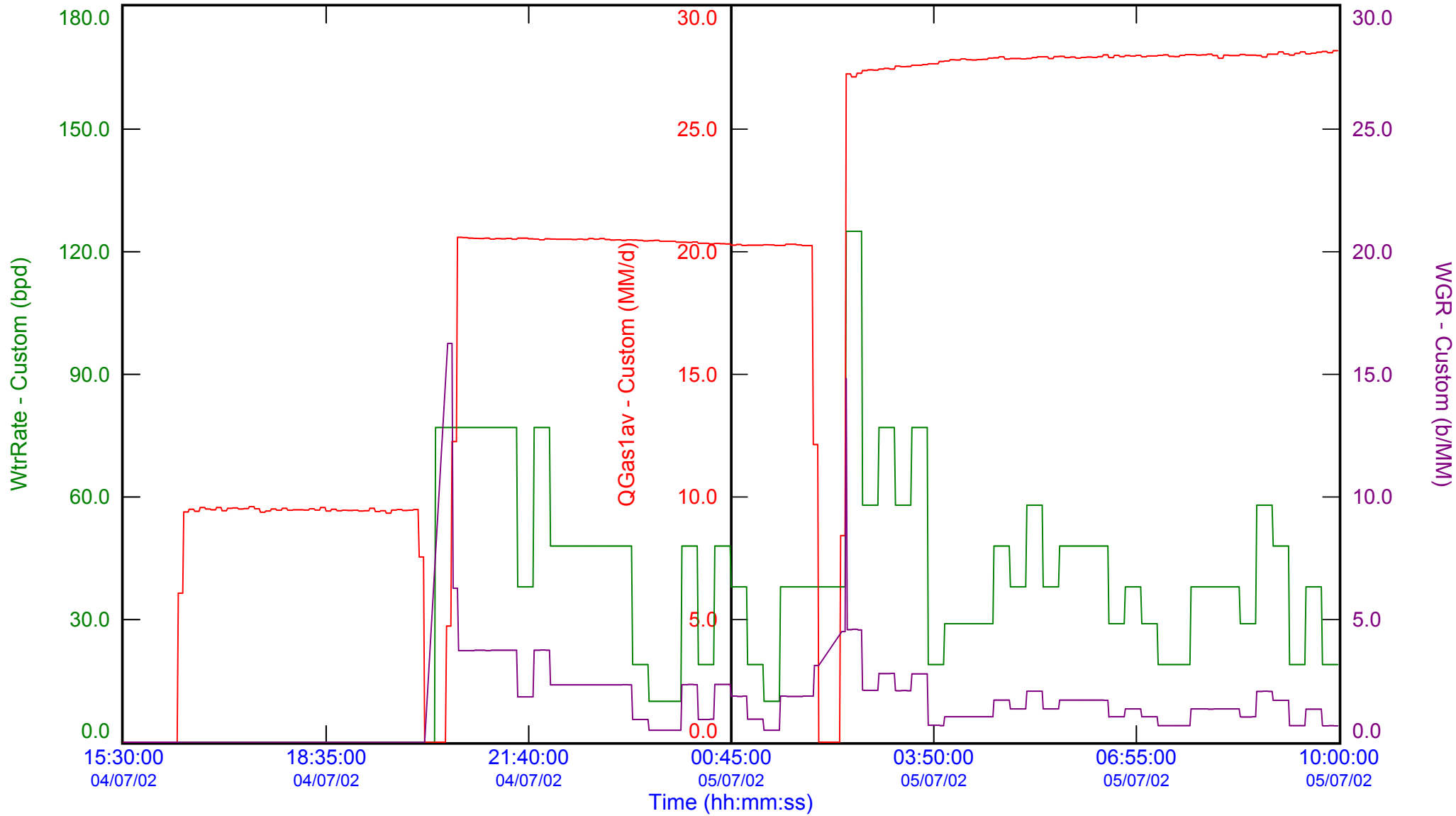
Data Type EDGE Data
Comments GasP vs GasT - Step Rate Test
(Low, Medium & High Rates)





Client OMV Australia Pty Ltd
Well No. Patricia-2
Test No. Completion
Location Ocean Bounty

Data Type EDGE Data
Comments WaterRate / GasRate / WGR
- StepRate (Low, Medium & High)



Client OMV Australia Pty Ltd

Exal Engineer M. Donald / N. Dowdell

Well No. Patricia-2

Location Ocean Bounty

Test No. Completion

Start Date 30/06 - 01/07/2002

Time hh:mm:ss	Choke 64th	Orifice ins	UcP PSIG	GasP PSIG	GasT °F	GasD INWG	CondR bpd	CondCum bbls	WtrRate bpd	WtrCum bbls	QGas1av MM/d	Gas1Cum MMcf	WGR b/MM
<u>03/07/02</u>													
06:00:00	0	0.000	759.2	2.0	54.4	0.0	0.0	0.0	0.0	0.0	0.00	0.000	
06:10:00	0	0.000	759.0	2.3	54.5	0.0	0.0	0.0	0.0	0.0	0.00	0.000	
06:20:00	0	0.000	759.0	2.2	54.5	0.0	0.0	0.0	0.0	0.0	0.00	0.000	
06:30:00	0	0.000	759.6	2.3	54.5	0.0	0.0	0.0	0.0	0.0	0.00	0.000	
06:40:00	0	0.000	758.4	2.7	54.5	0.0	0.0	0.0	0.0	0.0	0.00	0.000	
06:50:00	0	0.000	757.5	2.3	54.6	0.0	0.0	0.0	0.0	0.0	0.00	0.000	
07:00:00	0	0.000	757.3	2.2	54.6	0.0	0.0	0.0	0.0	0.0	0.00	0.000	
07:10:00	0	0.000	757.3	2.3	54.5	0.0	0.0	0.0	0.0	0.0	0.00	0.000	
07:20:00	64	0.000	463.4	2.6	54.6	0.1	0.0	0.0	0.0	0.0	0.00	0.000	
07:30:00	64	0.000	769.8	2.3	54.5	0.0	0.0	0.0	0.0	0.0	0.00	0.000	
07:40:00	76	0.000	758.6	2.5	54.7	0.0	0.0	0.0	0.0	0.0	0.00	0.000	
07:50:00	80	0.000	840.5	2.0	54.7	0.0	0.0	0.0	0.0	0.0	0.00	0.000	
08:00:00	128	0.000	633.0	2.3	54.8	0.0	0.0	0.0	0.0	0.0	0.00	0.000	
08:10:00	128	0.000	643.3	2.3	55.0	0.0	0.0	0.0	0.0	0.0	0.00	0.000	
08:20:00	128	0.000	650.4	2.3	55.1	0.0	0.0	0.0	0.0	0.0	0.00	0.000	
08:30:00	128	0.000	637.8	2.3	55.2	0.0	0.0	0.0	0.0	0.0	0.00	0.000	
08:40:00	128	0.000	652.1	2.3	55.3	0.0	0.0	0.0	0.0	0.0	0.00	0.000	
08:50:00	128	0.000	658.2	2.3	55.2	0.0	0.0	0.0	0.0	0.0	0.00	0.000	
09:00:00	128	0.000	641.8	2.4	55.3	0.0	0.0	0.0	0.0	0.0	0.00	0.000	
09:10:00	128	0.000	635.3	2.3	55.3	0.0	0.0	0.0	0.0	0.0	0.00	0.000	
09:20:00	128	0.000	632.2	2.3	55.4	0.0	0.0	0.0	0.0	0.0	0.00	0.000	
09:30:00	128	0.000	651.9	2.3	55.5	0.0	0.0	0.0	0.0	0.0	0.00	0.000	
09:40:00	128	0.000	630.8	336.5	68.6	15.5	0.0	0.0	0.0	0.0	0.00	0.000	
09:50:00	128	3.750	636.5	332.8	63.7	134.6	0.0	0.0	0.0	0.0	4.43	0.020	
10:00:00	128	3.500	627.7	338.6	63.2	199.8	0.0	0.0	0.0	0.0	22.87	0.130	0.0
10:10:00	128	3.500	630.4	339.9	63.2	203.3	0.0	0.0	0.0	0.0	23.30	0.290	0.0
10:20:00	128	3.500	628.3	344.0	63.0	209.0	0.0	0.0	504.0	5.3	23.50	0.450	21.6
10:30:00	128	3.500	634.3	347.8	62.9	211.4	0.0	0.0	504.0	10.5	23.78	0.610	21.5
10:40:00	128	3.500	632.6	346.8	62.2	212.2	0.0	0.0	504.0	10.5	24.01	0.780	21.0
10:50:00	128	3.500	633.7	350.0	61.9	228.6	0.0	0.0	499.2	15.7	24.56	0.950	20.7
11:00:00	128	3.500	632.2	352.1	61.7	231.1	0.0	0.0	394.0	19.8	25.35	1.130	15.6

Client OMV Australia Pty Ltd

Exal Engineer M. Donald / N. Dowdell

Well No. Patricia-2

Location Ocean Bounty

Test No. Completion

Start Date 30/06 - 01/07/2002

Time hh:mm:ss	Choke 64th	Orifice ins	UcP PSIG	GasP PSIG	GasT °F	GasD INWG	CondR bpd	CondCum bbls	WtrRate bpd	WtrCum bbls	QGas1av MM/d	Gas1Cum MMcf	WGR b/MM
<u>03/07/02</u>													
11:10:00	128	3.500	630.2	352.9	61.7	232.6	0.0	0.0	394.0	19.8	25.37	1.300	15.6
11:20:00	128	3.500	632.6	354.5	61.4	233.4	0.0	0.0	422.0	24.2	25.49	1.480	16.6
11:30:00	128	3.500	632.2	357.2	61.0	234.4	0.0	0.0	336.0	27.7	25.65	1.660	13.2
11:40:00	128	3.500	632.6	357.3	61.0	235.5	0.0	0.0	336.0	27.7	25.71	1.830	13.1
11:50:00	128	3.500	633.9	358.8	60.9	237.3	0.0	0.0	302.0	30.9	25.79	2.010	11.7
12:00:00	128	3.500	632.6	359.7	61.0	237.5	0.0	0.0	288.0	33.9	25.86	2.190	11.1
12:10:00	128	3.500	633.9	360.5	61.2	238.8	0.0	0.0	288.0	33.9	25.91	2.370	11.1
12:20:00	128	3.500	633.9	361.9	61.1	239.1	0.0	0.0	211.0	36.1	26.05	2.550	8.1
12:30:00	128	3.500	634.5	362.8	61.1	239.8	0.0	0.0	221.0	38.4	26.14	2.730	8.5
12:40:00	128	3.500	634.3	363.4	61.3	240.0	0.0	0.0	221.0	38.4	26.14	2.920	8.5
12:50:00	128	3.500	634.1	363.3	61.3	240.5	0.0	0.0	230.0	40.8	26.22	3.100	8.8
13:00:00	128	3.500	635.5	363.8	61.4	241.3	0.0	0.0	230.0	43.4	26.24	3.280	8.8
13:10:00	128	3.500	635.5	364.8	61.5	241.5	0.0	0.0	230.0	43.4	26.27	3.460	8.8
13:20:00	128	3.500	634.9	366.5	61.5	241.4	0.0	0.0	202.0	45.5	26.32	3.650	7.7
13:30:00	128	3.500	635.3	367.0	61.4	241.7	0.0	0.0	221.0	47.8	26.37	3.830	8.4
13:40:00	128	3.500	636.1	366.9	61.4	242.3	0.0	0.0	221.0	47.8	26.39	4.010	8.4
13:50:00	128	3.500	635.5	368.6	61.4	243.2	0.0	0.0	211.0	50.0	26.46	4.190	8.0
14:00:00	128	3.500	635.7	368.6	61.4	243.1	0.0	0.0	168.0	51.8	26.49	4.380	6.3
14:10:00	128	3.500	636.5	368.6	61.4	242.3	0.0	0.0	168.0	51.8	26.51	4.560	6.3
14:20:00	128	3.500	637.3	369.7	61.4	243.6	0.0	0.0	168.0	53.5	26.55	4.750	6.3
14:30:00	128	3.500	636.9	370.7	61.5	244.3	0.0	0.0	163.0	55.2	26.61	4.930	6.1
14:40:00	128	3.500	637.8	371.2	61.6	245.0	0.0	0.0	163.0	55.2	26.66	5.120	6.1
14:50:00	128	3.500	636.5	370.8	61.7	244.9	0.0	0.0	182.0	57.1	26.67	5.300	6.8
15:00:00	128	3.500	638.2	372.0	61.7	245.1	0.0	0.0	173.0	58.9	26.69	5.490	6.5
15:10:00	128	3.500	638.0	372.2	61.7	245.5	0.0	0.0	173.0	58.9	26.64	5.670	6.5
15:20:00	128	3.500	637.5	372.4	61.6	245.3	0.0	0.0	144.0	60.4	26.68	5.860	5.4
15:30:00	128	3.500	638.0	373.0	61.6	246.0	0.0	0.0	144.0	61.9	26.72	6.040	5.4
15:40:00	128	3.500	638.0	373.3	61.7	246.3	0.0	0.0	144.0	61.9	26.74	6.230	5.4
15:50:00	128	3.500	638.0	374.0	61.6	247.0	0.0	0.0	144.0	63.4	26.78	6.420	5.4
16:00:00	128	3.500	638.2	374.3	61.6	246.8	0.0	0.0	144.0	64.9	26.81	6.600	5.4
16:10:00	128	3.500	638.8	374.1	61.6	247.2	0.0	0.0	144.0	64.9	26.84	6.790	5.4

Client OMV Australia Pty Ltd

Exal Engineer M. Donald / N. Dowdell

Well No. Patricia-2

Location Ocean Bounty

Test No. Completion

Start Date 30/06 - 01/07/2002

Time hh:mm:ss	Choke 64th	Orifice ins	UcP PSIG	GasP PSIG	GasT °F	GasD INWG	CondR bpd	CondCum bbbls	WtrRate bpd	WtrCum bbbls	QGas1av MM/d	Gas1Cum MMcf	WGR b/MM
<u>03/07/02</u>													
16:20:00	128	3.500	638.8	374.7	61.7	247.6	0.0	0.0	144.0	66.4	26.90	6.970	5.4
16:30:00	128	3.500	638.2	374.7	61.6	247.7	0.0	0.0	125.0	67.7	26.92	7.160	4.6
16:40:00	128	3.500	638.6	374.7	61.7	246.7	0.0	0.0	125.0	67.7	26.91	7.350	4.6
16:50:00	128	3.500	638.8	375.8	61.7	247.6	0.0	0.0	134.0	69.1	26.94	7.540	5.0
17:00:00	128	3.500	638.8	375.7	61.8	247.7	0.0	0.0	115.0	70.3	26.98	7.720	4.3
17:10:00	128	3.500	638.8	376.7	61.9	247.5	0.0	0.0	115.0	70.3	26.99	7.910	4.3
17:20:00	128	3.500	639.0	376.4	62.0	249.0	0.0	0.0	115.0	71.5	27.01	8.100	4.3
17:30:00	128	3.500	638.8	377.5	62.0	249.3	0.0	0.0	115.0	72.7	27.06	8.290	4.3
17:40:00	192	3.500	620.0	386.8	62.8	240.6	0.0	0.0	115.0	72.7	26.93	8.440	6.1
17:50:00	192	3.500	618.7	386.7	62.9	241.5	0.0	0.0	106.0	73.8	26.91	8.630	3.9
18:00:00	192	3.500	620.6	387.4	62.9	242.6	0.0	0.0	115.0	75.0	27.04	8.820	4.3
18:10:00	192	3.500	619.5	387.8	62.9	243.1	0.0	0.0	115.0	75.0	27.08	9.010	4.3
18:20:00	192	3.500	620.2	388.4	63.0	243.0	0.0	0.0	134.0	76.4	27.11	9.190	5.0
18:30:00	192	3.500	620.0	389.1	63.1	243.7	0.0	0.0	106.0	77.5	27.16	9.380	3.9
18:40:00	192	3.500	620.6	389.2	63.1	243.3	0.0	0.0	106.0	77.5	27.17	9.570	3.9
18:50:00	192	3.500	621.0	389.2	63.1	243.9	0.0	0.0	106.0	78.6	27.19	9.760	3.9
19:00:00	192	3.500	620.4	388.9	63.1	244.1	0.0	0.0	106.0	79.7	27.17	9.950	3.9
19:10:00	192	3.500	620.4	389.9	62.9	245.1	0.0	0.0	106.0	79.7	27.26	10.140	3.9
19:20:00	192	3.500	620.6	389.5	62.9	244.1	0.0	0.0	95.9	80.7	27.26	10.330	3.5
19:30:00	192	3.500	620.8	389.6	62.8	245.3	0.0	0.0	95.9	81.7	27.27	10.520	3.5
19:40:00	192	3.500	621.8	389.8	62.8	244.0	0.0	0.0	95.9	81.7	27.28	10.710	3.5
19:50:00	192	3.500	621.4	390.1	62.9	245.3	0.0	0.0	115.0	82.9	27.28	10.900	4.2
20:00:00	192	3.500	621.8	390.1	62.9	244.7	0.0	0.0	115.0	84.1	27.30	11.090	4.2
20:10:00	192	3.500	621.8	391.6	62.8	246.2	0.0	0.0	115.0	84.1	27.30	11.270	4.2
20:20:00	192	3.500	621.8	391.3	62.8	245.8	0.0	0.0	96.0	85.1	27.32	11.460	3.5
20:30:00	192	3.500	621.2	391.4	62.7	246.4	0.0	0.0	96.0	86.1	27.35	11.650	3.5
20:40:00	192	3.500	621.8	391.5	62.6	246.3	0.0	0.0	96.0	86.1	27.33	11.840	3.5
20:50:00	192	3.500	622.2	391.4	62.5	246.4	0.0	0.0	96.0	87.1	27.36	12.030	3.5
21:00:00	192	3.500	621.8	392.2	62.2	246.8	0.0	0.0	96.0	88.1	27.43	12.220	3.5
21:10:00	192	3.500	621.8	391.6	62.1	248.2	0.0	0.0	96.0	88.1	27.42	12.410	3.5
21:20:00	192	3.500	621.6	391.9	62.2	248.7	0.0	0.0	77.0	88.9	27.44	12.610	2.8

Client OMV Australia Pty Ltd

Exal Engineer M. Donald / N. Dowdell

Well No. Patricia-2

Location Ocean Bounty

Test No. Completion

Start Date 30/06 - 01/07/2002

Time hh:mm:ss	Choke 64th	Orifice ins	UcP PSIG	GasP PSIG	GasT °F	GasD INWG	CondR bpd	CondCum bbls	WtrRate bpd	WtrCum bbls	QGas1av MM/d	Gas1Cum MMcf	WGR b/MM
<u>03/07/02</u>													
21:30:00	192	3.500	621.8	391.5	62.0	247.1	0.0	0.0	48.0	89.4	27.45	12.800	1.8
21:40:00	192	3.500	621.6	391.6	61.8	248.8	0.0	0.0	48.0	89.4	27.46	12.990	1.8
21:50:00	192	3.500	621.6	391.7	61.7	249.0	0.0	0.0	125.0	90.7	27.49	13.180	4.5
22:00:00	192	3.500	622.2	392.2	61.7	249.8	0.0	0.0	67.0	91.4	27.50	13.370	2.4
22:10:00	192	3.500	622.6	393.0	61.5	248.0	0.0	0.0	67.0	91.4	27.51	13.560	2.4
22:20:00	192	3.500	622.0	393.0	61.4	248.9	0.0	0.0	77.0	92.2	27.55	13.750	2.8
22:30:00	192	3.500	622.2	392.5	61.3	250.0	0.0	0.0	86.0	93.1	27.57	13.940	3.1
22:40:00	192	3.500	622.6	393.1	61.2	250.4	0.0	0.0	86.0	93.1	27.59	14.130	3.1
22:50:00	192	3.500	623.0	393.5	61.3	249.8	0.0	0.0	77.0	93.9	27.60	14.330	2.8
23:00:00	192	3.500	624.7	393.2	61.1	250.0	0.0	0.0	58.0	94.5	27.64	14.520	2.1
23:10:00	192	3.500	623.0	394.3	61.1	250.4	0.0	0.0	58.0	94.5	27.67	14.710	2.1
23:20:00	192	3.500	623.2	393.9	61.0	250.6	0.0	0.0	77.0	95.3	27.65	14.900	2.8
23:30:00	192	3.500	625.1	393.6	60.9	250.4	0.0	0.0	58.0	95.9	27.66	15.090	2.1
23:40:00	192	3.500	623.2	394.3	60.9	252.4	0.0	0.0	58.0	95.9	27.72	15.290	2.1
23:50:00	192	3.500	623.4	394.3	60.6	251.7	0.0	0.0	67.0	96.5	27.71	15.480	2.4
<u>04/07/02</u>													
00:00:00	192	3.500	625.5	394.6	60.6	250.5	0.0	0.0	77.0	97.3	27.80	15.670	2.8
00:10:00	192	3.500	623.4	394.9	60.4	251.9	0.0	0.0	77.0	97.3	27.89	15.870	2.8
00:20:00	192	3.500	624.3	394.6	60.4	254.4	0.0	0.0	96.0	98.3	27.88	16.060	3.4
00:30:00	192	3.500	623.0	394.1	60.3	254.2	0.0	0.0	58.0	98.9	27.89	16.250	2.1
00:40:00	192	3.500	623.2	394.3	60.3	252.4	0.0	0.0	58.0	98.9	27.85	16.450	2.1
00:50:00	192	3.500	624.5	395.2	60.2	253.1	0.0	0.0	58.0	99.5	27.91	16.640	2.1
01:00:00	192	3.500	623.9	395.1	60.1	254.2	0.0	0.0	86.0	100.4	27.93	16.830	3.1
01:10:00	192	3.500	623.6	394.5	60.1	253.2	0.0	0.0	86.0	100.4	27.90	17.030	3.1
01:20:00	192	3.500	623.4	394.9	60.0	252.9	0.0	0.0	48.0	100.9	27.95	17.220	1.7
01:30:00	192	3.500	623.9	394.2	59.9	225.7	0.0	0.0	67.0	101.6	27.55	17.380	2.4
01:40:00	192	3.500	624.5	394.9	60.0	221.0	0.0	0.0	67.0	101.6	26.23	17.560	2.5
01:50:00	192	3.500	624.3	395.4	60.0	221.6	0.0	0.0	96.0	102.6	26.09	17.740	3.7
02:00:00	192	3.500	623.9	395.4	60.0	220.2	0.0	0.0	38.0	103.0	26.07	17.920	1.4
02:10:00	192	3.500	624.5	394.3	59.8	221.6	0.0	0.0	38.0	103.0	26.10	18.100	1.5

Client OMV Australia Pty Ltd

Exal Engineer M. Donald / N. Dowdell

Well No. Patricia-2

Location Ocean Bounty

Test No. Completion

Start Date 30/06 - 01/07/2002

Time hh:mm:ss	Choke 64th	Orifice ins	UcP PSIG	GasP PSIG	GasT °F	GasD INWG	CondR bpd	CondCum bbbls	WtrRate bpd	WtrCum bbbls	QGas1av MM/d	Gas1Cum MMcf	WGR b/MM
<u>04/07/02</u>													
02:20:00	192	3.500	623.6	395.0	59.9	220.6	0.0	0.0	86.0	103.9	26.08	18.280	3.3
02:30:00	192	3.500	624.7	394.0	59.9	222.5	0.0	0.0	38.0	104.3	26.10	18.460	1.5
02:40:00	192	3.500	624.5	395.3	60.0	220.9	0.0	0.0	38.0	104.3	26.10	18.650	1.5
02:50:00	192	3.500	624.7	395.3	60.0	221.2	0.0	0.0	86.0	105.2	26.12	18.830	3.3
03:00:00	192	3.500	624.7	395.6	60.0	221.3	0.0	0.0	58.0	105.8	26.12	19.010	2.2
03:10:00	192	3.500	624.9	395.4	60.1	220.8	0.0	0.0	58.0	105.8	26.09	19.190	2.2
03:20:00	192	3.500	624.9	395.3	60.2	221.6	0.0	0.0	58.0	106.4	26.12	19.370	2.2
03:30:00	192	3.500	626.7	395.3	60.2	222.3	0.0	0.0	96.0	107.4	26.16	19.550	3.7
03:40:00	192	3.500	625.1	395.7	60.2	220.7	0.0	0.0	96.0	107.4	26.13	19.730	3.7
03:50:00	192	3.500	624.9	396.0	60.2	238.7	0.0	0.0	29.0	107.7	21.67	19.830	5.6
04:00:00	192	3.500	624.9	395.7	60.3	237.0	0.0	0.0	58.0	108.3	27.01	20.010	2.1
04:10:00	192	3.500	625.9	396.4	60.5	238.0	0.0	0.0	58.0	108.3	27.07	20.200	2.1
04:20:00	192	3.500	625.3	396.4	60.5	238.4	0.0	0.0	86.0	109.2	27.07	20.390	3.2
04:30:00	192	3.500	624.9	396.0	60.7	238.7	0.0	0.0	58.0	109.8	27.08	20.580	2.1
04:40:00	192	3.500	625.9	396.4	60.8	237.5	0.0	0.0	58.0	109.8	27.06	20.770	2.1
04:50:00	192	3.500	625.7	396.5	60.7	238.4	0.0	0.0	19.0	110.0	27.11	20.950	0.7
05:00:00	192	3.500	625.1	396.4	60.8	238.6	0.0	0.0	67.0	110.7	27.07	21.140	2.5
05:10:00	192	3.500	626.7	396.2	60.9	236.6	0.0	0.0	67.0	110.7	27.00	21.330	2.5
05:20:00	192	3.500	625.7	397.0	60.9	239.1	0.0	0.0	48.0	111.2	27.08	21.520	1.8
05:30:00	192	3.500	625.7	397.2	61.0	238.7	0.0	0.0	67.0	111.9	27.09	21.710	2.5
05:40:00	192	3.500	626.9	398.1	61.2	240.1	0.0	0.0	67.0	111.9	27.17	21.900	2.5
05:50:00	192	3.500	625.5	397.3	61.1	239.6	0.0	0.0	58.0	112.5	27.17	22.080	2.1
06:00:00	192	3.500	625.5	397.3	60.9	239.0	0.0	0.0	29.0	112.8	27.15	22.270	1.1
06:10:00	192	3.500	626.1	397.0	61.0	238.9	0.0	0.0	29.0	112.8	27.17	22.460	1.1
06:20:00	192	3.500	627.7	397.0	60.9	240.3	0.0	0.0	67.0	113.5	27.20	22.650	2.5
06:30:00	192	3.500	647.0	415.9	61.2	245.2	0.0	0.0	48.0	114.0	27.51	22.840	1.8
06:40:00	192	3.500	624.9	393.2	61.1	239.4	0.0	0.0	48.0	114.0	27.22	23.030	1.7
06:50:00	192	3.500	627.1	399.0	61.0	240.7	0.0	0.0	58.0	114.6	27.26	23.220	2.1
07:00:00	192	3.500	627.3	400.4	60.5	240.7	0.0	0.0	38.0	115.0	27.39	23.410	1.4
07:10:00	192	3.500	627.3	399.7	60.4	240.6	0.0	0.0	38.0	115.0	27.33	23.600	1.4
07:20:00	192	3.500	627.3	398.7	60.6	241.1	0.0	0.0	48.0	115.5	27.36	23.790	1.8

Client OMV Australia Pty Ltd

Exal Engineer M. Donald / N. Dowdell

Well No. Patricia-2

Location Ocean Bounty

Test No. Completion

Start Date 30/06 - 01/07/2002

Time hh:mm:ss	Choke 64th	Orifice ins	UcP PSIG	GasP PSIG	GasT °F	GasD INWG	CondR bpd	CondCum bbls	WtrRate bpd	WtrCum bbls	QGas1av MM/d	Gas1Cum MMcf	WGR b/MM
<u>04/07/02</u>													
07:30:00	192	3.500	627.9	399.3	60.6	243.0	0.0	0.0	58.0	116.1	27.42	23.980	2.1
07:40:00	192	3.500	633.0	408.0	60.6	247.2	0.0	0.0	58.0	116.1	28.05	24.170	2.1
07:50:00	192	3.500	626.7	398.7	60.3	241.3	0.0	0.0	48.0	116.6	27.39	24.370	1.7
08:00:00	192	3.500	626.1	399.4	60.3	241.9	0.0	0.0	48.0	117.1	27.38	24.560	1.8
08:10:00	192	3.500	626.7	400.3	60.5	243.3	0.0	0.0	48.0	117.1	27.51	24.750	1.8
08:20:00	192	3.500	627.1	399.3	60.4	240.8	0.0	0.0	58.0	117.7	27.48	24.940	2.1
08:30:00	192	3.500	630.2	401.3	60.5	243.5	0.0	0.0	29.0	118.0	27.54	25.130	1.1
08:40:00	192	3.500	630.2	404.8	60.9	237.3	0.0	0.0	29.0	118.0	27.63	25.320	1.1
08:50:00	192	3.500	617.1	390.2	61.0	236.8	0.0	0.0	38.0	118.4	26.98	25.510	1.4
09:00:00	192	3.500	616.1	386.2	61.0	229.4	0.0	0.0	58.0	119.0	26.34	25.690	2.2
09:10:00	192	3.500	618.9	391.9	60.7	235.9	0.0	0.0	58.0	119.0	26.77	25.880	2.2
09:20:00	192	3.500	623.4	395.7	60.7	236.0	0.0	0.0	77.0	119.8	27.05	26.070	2.9
09:30:00	192	3.500	629.4	399.3	60.6	238.1	0.0	0.0	58.0	120.4	27.23	26.250	2.1
09:40:00	192	3.500	630.8	401.0	60.6	242.1	0.0	0.0	58.0	120.4	27.56	26.440	2.1
09:50:00	192	3.500	630.0	402.0	60.5	241.1	0.0	0.0	48.0	120.9	27.53	26.640	1.8
10:00:00	192	3.500	629.6	401.4	60.7	242.3	0.0	0.0	58.0	121.5	27.59	26.830	2.1
10:10:00	192	3.500	629.8	401.7	60.6	242.1	0.0	0.0	58.0	121.5	27.53	27.020	2.1
10:20:00	192	3.500	630.8	402.0	60.5	241.6	0.0	0.0	38.0	121.9	27.62	27.210	1.4
10:30:00	192	3.500	629.8	402.3	60.4	241.6	0.0	0.0	58.0	122.5	27.60	27.400	2.1
10:40:00	192	3.500	631.2	402.6	60.6	243.4	0.0	0.0	58.0	122.5	27.61	27.590	2.1
10:50:00	192	3.500	631.0	403.0	60.5	243.2	0.0	0.0	38.0	122.9	27.62	27.790	1.4
11:00:00	0	0.000	959.1	3.7	33.0	0.0	0.0	0.0	0.0	123.4	0.00	27.860	0.0
11:10:00	0	0.000	962.4	2.7	45.7	0.0	0.0	0.0	0.0	123.4	0.00	27.860	
11:20:00	0	0.000	964.6	3.2	50.7	0.0	0.0	0.0	0.0	123.4	0.00	27.860	
11:30:00	0	0.000	965.9	3.2	52.8	0.0	0.0	0.0	0.0	123.4	0.00	27.860	
11:40:00	0	0.000	966.7	3.2	53.9	0.0	0.0	0.0	0.0	123.4	0.00	27.860	
11:50:00	0	0.000	967.9	2.9	54.6	0.0	0.0	0.0	0.0	123.4	0.00	27.860	
12:00:00	0	0.000	968.3	2.7	55.1	0.0	0.0	0.0	0.0	123.4	0.00	27.860	
12:10:00	0	0.000	968.7	3.1	55.6	0.0	0.0	0.0	0.0	123.4	0.00	27.860	
12:20:00	0	0.000	969.3	3.4	55.9	0.0	0.0	0.0	0.0	123.4	0.00	27.860	
12:30:00	0	0.000	969.5	3.1	56.0	0.0	0.0	0.0	0.0	123.4	0.00	27.860	

Client OMV Australia Pty Ltd

Exal Engineer M. Donald / N. Dowdell

Well No. Patricia-2

Location Ocean Bounty

Test No. Completion

Start Date 30/06 - 01/07/2002

Time hh:mm:ss	Choke 64th	Orifice ins	UcP PSIG	GasP PSIG	GasT °F	GasD INWG	CondR bpd	CondCum bbls	WtrRate bpd	WtrCum bbls	QGas1av MM/d	Gas1Cum MMcf	WGR b/MM
<u>04/07/02</u>													
12:40:00	0	0.000	970.4	2.9	56.4	0.0	0.0	0.0	0.0	123.4	0.00	27.860	
12:50:00	0	0.000	971.0	2.9	56.6	0.0	0.0	0.0	0.0	123.4	0.00	27.860	
13:00:00	0	0.000	971.0	2.9	56.6	0.0	0.0	0.0	0.0	123.4	0.00	27.860	
13:10:00	0	0.000	970.8	2.7	56.9	0.0	0.0	0.0	0.0	123.4	0.00	27.860	
13:20:00	0	0.000	972.0	3.1	57.3	0.0	0.0	0.0	0.0	123.4	0.00	27.860	
13:30:00	0	0.000	972.4	3.4	57.4	0.0	0.0	0.0	0.0	123.4	0.00	27.860	
13:40:00	0	0.000	972.6	3.3	57.3	0.0	0.0	0.0	0.0	123.4	0.00	27.860	
13:50:00	0	0.000	972.6	2.9	57.2	0.0	0.0	0.0	0.0	123.4	0.00	27.860	
14:00:00	0	0.000	973.0	2.9	57.2	0.0	0.0	0.0	0.0	123.4	0.00	27.860	
14:10:00	0	0.000	973.2	3.0	57.2	0.0	0.0	0.0	0.0	123.4	0.00	27.860	
14:20:00	0	0.000	973.6	3.0	57.2	0.0	0.0	0.0	0.0	123.4	0.00	27.860	
14:30:00	0	0.000	973.4	3.0	57.3	0.0	0.0	0.0	0.0	123.4	0.00	27.860	
14:40:00	0	0.000	973.6	3.3	57.5	0.0	0.0	0.0	0.0	123.4	0.00	27.860	
14:50:00	0	0.000	974.0	3.8	57.5	0.0	0.0	0.0	0.0	123.4	0.00	27.860	
15:00:00	0	0.000	975.1	3.7	57.4	0.0	0.0	0.0	0.0	123.4	0.00	27.860	
15:10:00	0	0.000	974.5	3.2	57.0	0.0	0.0	0.0	0.0	123.4	0.00	27.860	
15:20:00	0	0.000	975.5	3.7	56.6	0.0	0.0	0.0	0.0	123.4	0.00	27.860	
15:30:00	16	0.000	977.9	8.1	56.9	0.5	0.0	0.0	0.0	123.4	0.00	27.860	
15:40:00	32	0.000	962.4	210.3	43.1	12.1	0.0	0.0	0.0	123.4	0.00	27.860	
15:50:00	32	0.000	959.5	368.2	36.9	11.3	0.0	0.0	0.0	123.4	0.00	27.860	
16:00:00	36	0.000	959.1	253.4	31.3	15.0	0.0	0.0	0.0	123.4	0.00	27.860	
16:10:00	40	0.000	948.3	359.0	35.0	12.3	0.0	0.0	0.0	123.4	0.00	27.860	
16:20:00	40	2.250	943.6	365.1	35.1	192.9	0.0	0.0	0.0	123.4	6.08	27.880	
16:30:00	40	2.250	943.4	365.4	35.8	207.2	0.0	0.0	0.0	123.4	9.50	27.950	0.0
16:40:00	40	2.250	942.5	365.6	36.3	200.0	0.0	0.0	0.0	123.4	9.57	28.010	0.0
16:50:00	40	2.250	942.5	364.1	36.6	203.3	0.0	0.0	0.0	123.4	9.48	28.080	0.0
17:00:00	40	2.250	942.4	363.5	36.9	200.6	0.0	0.0	0.0	123.4	9.44	28.150	0.0
17:10:00	40	2.250	942.8	364.3	37.1	206.2	0.0	0.0	0.0	123.4	9.56	28.210	0.0
17:20:00	40	2.250	942.5	366.1	37.3	195.8	0.0	0.0	0.0	123.4	9.53	28.280	0.0
17:30:00	40	2.250	942.5	365.1	37.3	207.3	0.0	0.0	0.0	123.4	9.52	28.350	0.0
17:40:00	40	2.250	941.7	364.3	37.2	186.3	0.0	0.0	0.0	123.4	9.43	28.410	0.0

Client OMV Australia Pty Ltd

Exal Engineer M. Donald / N. Dowdell

Well No. Patricia-2

Location Ocean Bounty

Test No. Completion

Start Date 30/06 - 01/07/2002

Time hh:mm:ss	Choke 64th	Orifice ins	UcP PSIG	GasP PSIG	GasT °F	GasD INWG	CondR bpd	CondCum bbbls	WtrRate bpd	WtrCum bbbls	QGas1av MM/d	Gas1Cum MMcf	WGR b/MM
<u>04/07/02</u>													
17:50:00	40	2.250	942.4	364.9	37.2	191.6	0.0	0.0	0.0	123.4	9.46	28.480	0.0
18:00:00	40	2.250	941.9	363.7	37.1	206.2	0.0	0.0	0.0	123.4	9.46	28.540	0.0
18:10:00	40	2.250	941.5	363.2	36.9	197.7	0.0	0.0	0.0	123.4	9.48	28.610	0.0
18:20:00	40	2.250	940.7	363.1	36.9	209.1	0.0	0.0	0.0	123.4	9.52	28.670	0.0
18:30:00	40	2.250	941.1	362.9	37.1	204.4	0.0	0.0	0.0	123.4	9.57	28.740	0.0
18:40:00	40	2.250	941.1	363.8	36.9	207.2	0.0	0.0	0.0	123.4	9.50	28.810	0.0
18:50:00	40	2.250	940.7	362.3	36.9	200.9	0.0	0.0	0.0	123.4	9.46	28.870	0.0
19:00:00	40	2.250	940.7	363.4	37.3	208.9	0.0	0.0	0.0	123.4	9.46	28.940	0.0
19:10:00	40	2.250	938.9	362.9	37.7	187.7	0.0	0.0	0.0	123.4	9.44	29.000	0.0
19:20:00	40	2.250	938.7	364.3	37.9	196.8	0.0	0.0	0.0	123.4	9.41	29.070	0.0
19:30:00	40	2.250	938.7	363.8	38.0	198.2	0.0	0.0	0.0	123.4	9.34	29.130	0.0
19:40:00	40	2.250	938.5	363.0	38.1	194.9	0.0	0.0	0.0	123.4	9.49	29.200	0.0
19:50:00	40	2.250	938.9	365.0	37.8	200.1	0.0	0.0	0.0	123.4	9.46	29.270	0.0
20:00:00	40	0.000	938.7	359.9	37.6	12.1	0.0	0.0	0.0	123.4	7.56	29.320	0.0
20:10:00	60	0.000	821.7	232.7	39.0	14.0	0.0	0.0	0.0	123.4	0.00	29.320	
20:20:00	64	0.000	794.3	293.1	43.3	12.2	0.0	0.0	77.0	124.2	0.00	29.320	
20:30:00	64	3.250	800.1	304.8	44.4	238.6	0.0	0.0	77.0	125.0	12.26	29.380	16.3
20:40:00	64	3.250	799.5	293.4	44.6	251.2	0.0	0.0	77.0	125.0	20.58	29.530	3.7
20:50:00	64	3.250	798.6	293.4	45.2	250.7	0.0	0.0	77.0	125.0	20.55	29.670	3.7
21:00:00	64	3.250	799.0	295.1	45.5	250.6	0.0	0.0	77.0	125.0	20.56	29.810	3.8
21:10:00	64	3.250	799.7	295.8	45.8	250.8	0.0	0.0	77.0	125.0	20.54	29.950	3.8
21:20:00	64	3.250	800.7	295.1	46.1	250.7	0.0	0.0	77.0	125.0	20.55	30.100	3.8
21:30:00	64	3.250	801.7	296.7	46.5	250.7	0.0	0.0	38.0	125.4	20.56	30.240	1.9
21:40:00	64	3.250	800.7	296.7	46.7	250.8	0.0	0.0	38.0	125.4	20.53	30.380	1.9
21:50:00	64	3.250	800.9	296.4	46.9	250.2	0.0	0.0	77.0	126.2	20.49	30.530	3.8
22:00:00	64	3.250	800.9	296.1	47.1	249.0	0.0	0.0	48.0	126.7	20.52	30.670	2.3
22:10:00	64	3.250	801.3	296.6	47.3	249.6	0.0	0.0	48.0	126.7	20.51	30.810	2.3
22:20:00	64	3.250	801.7	296.3	47.5	249.7	0.0	0.0	48.0	126.7	20.50	30.950	2.3
22:30:00	64	3.250	801.7	296.6	47.6	251.3	0.0	0.0	48.0	126.7	20.50	31.090	2.3
22:40:00	64	3.250	801.9	296.7	47.7	250.2	0.0	0.0	48.0	126.7	20.51	31.240	2.3
22:50:00	64	3.250	801.9	295.6	48.0	252.5	0.0	0.0	48.0	126.7	20.50	31.380	2.3

Client OMV Australia Pty Ltd

Exal Engineer M. Donald / N. Dowdell

Well No. Patricia-2

Location Ocean Bounty

Test No. Completion

Start Date 30/06 - 01/07/2002

Time hh:mm:ss	Choke 64th	Orifice ins	UcP PSIG	GasP PSIG	GasT °F	GasD INWG	CondR bpd	CondCum bbbls	WtrRate bpd	WtrCum bbbls	QGas1av MM/d	Gas1Cum MMcf	WGR b/MM
<u>04/07/02</u>													
23:00:00	64	3.250	801.3	295.1	48.0	251.7	0.0	0.0	48.0	127.2	20.49	31.520	2.3
23:10:00	64	3.250	802.5	295.8	48.1	250.4	0.0	0.0	48.0	127.2	20.49	31.660	2.4
23:20:00	64	3.250	801.1	295.8	48.3	249.3	0.0	0.0	19.0	127.4	20.47	31.810	0.9
23:30:00	64	3.250	800.5	295.6	48.5	250.7	0.0	0.0	10.0	127.5	20.45	31.950	0.5
23:40:00	64	3.250	799.9	295.2	48.6	250.5	0.0	0.0	10.0	127.5	20.43	32.090	0.5
23:50:00	64	3.250	800.7	295.0	48.5	249.5	0.0	0.0	10.0	127.5	20.43	32.230	0.5
<u>05/07/02</u>													
00:00:00	64	3.250	799.9	294.7	48.7	248.9	0.0	0.0	48.0	128.0	20.39	32.370	2.4
00:10:00	64	3.250	799.0	295.0	48.8	249.9	0.0	0.0	48.0	128.0	20.40	32.520	2.4
00:20:00	64	3.250	798.8	295.1	48.9	248.0	0.0	0.0	19.0	128.2	20.35	32.660	0.9
00:30:00	64	3.250	797.2	291.8	48.9	250.9	0.0	0.0	48.0	128.7	20.34	32.800	2.4
00:40:00	64	3.250	796.8	292.0	49.0	250.5	0.0	0.0	48.0	128.7	20.32	32.940	2.4
00:50:00	64	3.250	796.8	294.5	49.2	246.9	0.0	0.0	38.0	129.1	20.30	33.080	1.9
01:00:00	64	3.250	796.4	294.0	49.2	249.1	0.0	0.0	19.0	129.3	20.27	33.220	0.9
01:10:00	64	3.250	796.2	294.7	49.3	246.8	0.0	0.0	19.0	129.3	20.27	33.360	0.9
01:20:00	64	3.250	796.2	294.7	49.4	246.2	0.0	0.0	10.0	129.4	20.28	33.500	0.5
01:30:00	64	3.250	796.8	293.7	49.4	249.4	0.0	0.0	38.0	129.8	20.26	33.640	1.9
01:40:00	64	3.250	796.6	293.5	49.3	248.3	0.0	0.0	38.0	129.8	20.31	33.780	1.9
01:50:00	64	3.250	795.6	292.4	49.5	249.1	0.0	0.0	38.0	130.2	20.25	33.930	1.9
02:00:00	66	0.000	795.8	286.9	49.5	14.3	0.0	0.0	38.0	130.2	12.14	34.040	1.9
02:10:00	102	0.000	663.5	374.9	56.4	13.8	0.0	0.0	38.0	130.2	0.00	34.040	
02:20:00	192	0.000	617.1	381.7	59.2	13.0	0.0	0.0	38.0	130.2	0.00	34.040	
02:30:00	192	3.750	619.8	388.9	60.5	177.8	0.0	0.0	125.0	131.5	27.25	34.160	14.8
02:40:00	192	3.750	623.4	392.4	61.1	175.3	0.0	0.0	125.0	131.5	27.28	34.350	4.6
02:50:00	192	3.750	625.3	393.2	61.5	178.1	0.0	0.0	58.0	132.1	27.42	34.540	2.1
03:00:00	192	3.750	626.3	394.3	61.8	175.8	0.0	0.0	77.0	132.9	27.45	34.730	2.8
03:10:00	192	3.750	625.7	394.9	62.1	177.0	0.0	0.0	77.0	132.9	27.45	34.920	2.8
03:20:00	192	3.750	626.7	396.0	62.2	178.6	0.0	0.0	58.0	133.5	27.55	35.110	2.1
03:30:00	192	3.750	627.3	396.0	62.3	180.0	0.0	0.0	77.0	134.3	27.61	35.300	2.8
03:40:00	192	3.750	627.5	396.6	62.5	178.9	0.0	0.0	77.0	134.3	27.63	35.500	2.8

Client OMV Australia Pty Ltd

Exal Engineer M. Donald / N. Dowdell

Well No. Patricia-2

Location Ocean Bounty

Test No. Completion

Start Date 30/06 - 01/07/2002

Time hh:mm:ss	Choke 64th	Orifice ins	UcP PSIG	GasP PSIG	GasT °F	GasD INWG	CondR bpd	CondCum bbbls	WtrRate bpd	WtrCum bbbls	QGas1av MM/d	Gas1Cum MMcf	WGR b/MM
<u>05/07/02</u>													
03:50:00	192	3.750	629.0	397.3	62.5	180.3	0.0	0.0	19.0	134.5	27.67	35.690	0.7
04:00:00	192	3.750	630.0	398.9	62.7	181.1	0.0	0.0	29.0	134.8	27.78	35.880	1.0
04:10:00	192	3.750	630.2	399.0	62.9	179.1	0.0	0.0	29.0	134.8	27.82	36.070	1.0
04:20:00	192	3.750	630.4	399.3	62.8	181.9	0.0	0.0	29.0	135.1	27.83	36.270	1.0
04:30:00	192	3.750	630.2	399.3	62.7	178.9	0.0	0.0	29.0	135.4	27.84	36.460	1.0
04:40:00	192	3.750	630.8	399.7	62.6	181.0	0.0	0.0	29.0	135.4	27.90	36.660	1.0
04:50:00	192	3.750	631.2	399.7	62.9	181.8	0.0	0.0	48.0	135.9	27.95	36.850	1.7
05:00:00	192	3.750	631.4	400.3	63.0	181.1	0.0	0.0	38.0	136.3	27.88	37.040	1.4
05:10:00	192	3.750	631.4	400.9	62.9	179.6	0.0	0.0	38.0	136.3	27.87	37.240	1.4
05:20:00	192	3.750	631.6	401.0	62.9	181.5	0.0	0.0	58.0	136.9	27.92	37.430	2.1
05:30:00	192	3.750	631.4	400.2	62.9	180.9	0.0	0.0	38.0	137.3	27.95	37.620	1.4
05:40:00	192	3.750	631.4	400.4	63.1	182.7	0.0	0.0	38.0	137.3	27.96	37.820	1.4
05:50:00	192	3.750	631.8	400.6	63.3	181.1	0.0	0.0	48.0	137.8	27.92	38.010	1.7
06:00:00	192	3.750	631.8	400.6	63.3	181.3	0.0	0.0	48.0	138.3	27.90	38.210	1.7
06:10:00	192	3.750	632.0	401.6	63.3	180.0	0.0	0.0	48.0	138.3	27.94	38.400	1.7
06:20:00	192	3.750	632.2	401.4	63.4	180.8	0.0	0.0	48.0	138.8	27.96	38.590	1.7
06:30:00	192	3.750	631.8	401.2	63.5	180.7	0.0	0.0	29.0	139.1	27.92	38.790	1.0
06:40:00	192	3.750	633.5	400.6	63.4	181.1	0.0	0.0	29.0	139.1	27.96	38.980	1.0
06:50:00	192	3.750	631.8	400.6	63.5	184.0	0.0	0.0	38.0	139.5	27.98	39.180	1.4
07:00:00	192	3.750	631.6	400.6	63.4	181.6	0.0	0.0	29.0	139.8	27.95	39.370	1.0
07:10:00	192	3.750	632.6	401.9	63.4	181.6	0.0	0.0	29.0	139.8	27.99	39.570	1.0
07:20:00	192	3.750	632.8	401.7	63.3	181.1	0.0	0.0	19.0	140.0	28.03	39.760	0.7
07:30:00	192	3.750	632.6	401.4	63.5	181.6	0.0	0.0	19.0	142.0	27.96	39.950	0.7
07:40:00	192	3.750	631.8	401.6	63.5	183.2	0.0	0.0	19.0	142.0	28.04	40.150	0.7
07:50:00	192	3.750	632.2	401.6	63.5	182.3	0.0	0.0	38.0	142.4	28.02	40.340	1.4
08:00:00	192	3.750	633.0	401.6	63.5	182.7	0.0	0.0	38.0	142.8	28.06	40.540	1.4
08:10:00	192	3.750	632.6	401.3	63.4	181.4	0.0	0.0	38.0	142.8	27.89	40.730	1.4
08:20:00	192	3.750	632.0	401.5	63.5	180.8	0.0	0.0	38.0	143.2	28.00	40.930	1.4
08:30:00	192	3.750	632.4	401.7	63.4	184.2	0.0	0.0	29.0	143.5	28.05	41.120	1.0
08:40:00	192	3.750	634.5	402.7	63.5	182.3	0.0	0.0	29.0	143.5	28.02	41.320	1.0
08:50:00	192	3.750	632.6	401.3	63.5	182.8	0.0	0.0	58.0	144.1	27.94	41.510	2.1

Client OMV Australia Pty Ltd

Exal Engineer M. Donald / N. Dowdell

Well No. Patricia-2

Location Ocean Bounty

Test No. Completion

Start Date 30/06 - 01/07/2002

Time hh:mm:ss	Choke 64th	Orifice ins	UcP PSIG	GasP PSIG	GasT °F	GasD INWG	CondR bpd	CondCum bbls	WtrRate bpd	WtrCum bbls	QGas1av MM/d	Gas1Cum MMcf	WGR b/MM
<u>05/07/02</u>													
09:00:00	192	3.750	632.8	401.4	63.6	181.3	0.0	0.0	48.0	144.6	28.06	41.710	1.7
09:10:00	192	3.750	631.6	400.9	63.7	182.8	0.0	0.0	48.0	144.6	28.07	41.900	1.7
09:20:00	192	3.750	632.4	401.3	63.5	183.4	0.0	0.0	19.0	144.8	28.09	42.100	0.7
09:30:00	192	3.750	632.6	401.6	63.9	180.3	0.0	0.0	38.0	145.2	28.07	42.290	1.4
09:40:00	192	3.750	634.1	402.9	63.7	183.0	0.0	0.0	38.0	145.2	28.14	42.490	1.4
09:50:00	192	3.750	633.3	402.5	63.7	181.9	0.0	0.0	19.0	145.7	28.12	42.680	0.7
10:00:00	0	0.000	641.4	400.8	64.6	181.7	0.0	0.0	0.0	145.7	22.55	42.860	0.0



Gas Calcs Data Listing

Client	OMV Australia Pty Ltd
Well No.	Patricia-2
Test No.	Completion
Location	Ocean Bounty
Start Date	30/06 - 01/07/2002
Country	Australia
Field	VIC/L21
Job Number	J02/188
Formation	Gurnard
Exal Engineer	M. Donald / N. Dowdell
Client Engineer	A. Ion
Perforations	n/a

Client OMV Australia Pty Ltd**Exal Engineer** M. Donald / N. Dowdell**Well No.** Patricia-2**Location** Ocean Bounty**Test No.** Completion**Start Date** 30/06 - 01/07/2002

Time hh:mm:ss	Orifice ins	GasP PSIG	GasT °F	GasD INWG	Co2 mol%	H2S ppm	GasSG fact	GasFb fact	GasFr fact	GasY fact	GasFpb fact	GasFtb fact	GasFtf fact	GasFgr fact	GasFpv fact	GasC fact	GasPf PSIA	QGas1av MM/d	Gas1Cum MMcf	
<u>03/07/02</u>																				
07:00:00	0.000	2.2	54.6	0.0	0.0	0.0	0.571	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	16.9	0.00	0.000	
07:10:00	0.000	2.3	54.5	0.0	0.0	0.0	0.571	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	17.0	0.00	0.000	
07:20:00	0.000	2.6	54.6	0.1	0.0	0.0	0.571	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	17.3	0.00	0.000	
07:30:00	0.000	2.3	54.5	0.0	0.0	0.0	0.571	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	17.0	0.00	0.000	
07:40:00	0.000	2.5	54.7	0.0	0.0	0.0	0.571	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	17.3	0.00	0.000	
07:50:00	0.000	2.0	54.7	0.0	0.0	0.0	0.571	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	16.7	0.00	0.000	
08:00:00	0.000	2.3	54.8	0.0	1.2	0.0	0.571	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	17.0	0.00	0.000	
08:10:00	0.000	2.3	55.0	0.0	1.2	0.0	0.571	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	17.0	0.00	0.000	
08:20:00	0.000	2.3	55.1	0.0	1.2	0.0	0.571	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	17.0	0.00	0.000	
08:30:00	0.000	2.3	55.2	0.0	1.2	0.0	0.571	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	17.0	0.00	0.000	
08:40:00	0.000	2.3	55.3	0.0	1.2	0.0	0.571	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	17.0	0.00	0.000	
08:50:00	0.000	2.3	55.2	0.0	1.2	0.0	0.571	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	17.0	0.00	0.000	
09:00:00	0.000	2.4	55.3	0.0	1.5	0.0	0.571	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	17.2	0.00	0.000	
09:10:00	0.000	2.3	55.3	0.0	1.5	0.0	0.571	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	17.0	0.00	0.000	
09:20:00	0.000	2.3	55.4	0.0	1.5	0.0	0.571	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	17.0	0.00	0.000	
09:30:00	0.000	2.3	55.5	0.0	1.5	0.0	0.571	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	17.0	0.00	0.000	
09:40:00	0.000	336.5	68.6	15.5	1.5	0.0	0.571	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	351.2	0.00	0.000	
09:50:00	3.750	332.8	63.7	134.6	1.5	0.0	0.571	3172.2	1.0	0.995	1.0	1.0	0.996	1.323	1.026	4269.4	347.5	4.43	0.015	
10:00:00	3.500	338.6	63.2	199.8	1.4	0.0	0.571	2695.1	1.0	0.993	1.0	1.0	0.997	1.323	1.026	3623.2	353.3	22.87	0.126	
10:10:00	3.500	339.9	63.2	203.3	1.4	0.0	0.571	2695.1	1.0	0.993	1.0	1.0	0.997	1.323	1.026	3623.4	354.6	23.30	0.287	
10:20:00	3.500	344.0	63.0	209.0	1.4	0.0	0.571	2695.1	1.0	0.993	1.0	1.0	0.997	1.323	1.027	3624.9	358.8	23.50	0.450	
10:30:00	3.500	347.8	62.9	211.4	1.4	0.0	0.571	2695.1	1.0	0.993	1.0	1.0	0.997	1.323	1.027	3626.3	362.5	23.78	0.614	
10:40:00	3.500	346.8	62.2	212.2	1.4	0.0	0.571	2695.1	1.0	0.993	1.0	1.0	0.998	1.323	1.027	3628.5	361.5	24.01	0.780	
10:50:00	3.500	350.0	61.9	228.6	1.4	0.0	0.571	2695.1	1.0	0.992	1.0	1.0	0.998	1.323	1.027	3629.0	364.7	24.55	0.949	
11:00:00	3.500	352.1	61.7	231.1	1.4	0.0	0.576	2695.1	1.0	0.992	1.0	1.0	0.998	1.318	1.028	3616.0	366.9	25.35	1.125	
11:10:00	3.500	352.9	61.7	232.6	1.4	0.0	0.576	2695.1	1.0	0.992	1.0	1.0	0.998	1.318	1.028	3616.0	367.6	25.37	1.301	
11:20:00	3.500	354.5	61.4	233.4	1.4	0.0	0.576	2695.1	1.0	0.992	1.0	1.0	0.999	1.318	1.028	3617.7	369.2	25.49	1.478	
11:30:00	3.500	357.2	61.0	234.4	1.4	0.0	0.576	2695.1	1.0	0.992	1.0	1.0	0.999	1.318	1.028	3620.1	371.9	25.65	1.656	
11:40:00	3.500	357.3	61.0	235.5	1.4	0.0	0.576	2695.1	1.0	0.992	1.0	1.0	0.999	1.318	1.028	3619.9	372.0	25.71	1.834	
11:50:00	3.500	358.8	60.9	237.3	1.4	0.0	0.576	2695.1	1.0	0.992	1.0	1.0	0.999	1.318	1.029	3620.9	373.5	25.79	2.013	
12:00:00	3.500	359.7	61.0	237.5	1.4	0.0	0.576	2695.1	1.0	0.992	1.0	1.0	0.999	1.318	1.029	3620.7	374.5	25.86	2.192	

Client OMV Australia Pty Ltd

Exal Engineer M. Donald / N. Dowdell

Well No. Patricia-2

Location Ocean Bounty

Test No. Completion

Start Date 30/06 - 01/07/2002

Time hh:mm:ss	Orifice ins	GasP PSIG	GasT °F	GasD INWG	Co2 mol%	H2S ppm	GasSG fact	GasFb fact	GasFr fact	GasY fact	GasFpb fact	GasFtb fact	GasFtf fact	GasFgr fact	GasFpv fact	GasC fact	GasPf PSIA	QGas1av MM/d	Gas1Cum MMcf
03/07/02																			
12:10:00	3.500	360.5	61.2	238.8	1.4	0.0	0.576	2695.1	1.0	0.992	1.0	1.0	0.999	1.318	1.029	3620.0	375.2	25.91	2.372
12:20:00	3.500	361.9	61.1	239.1	1.4	0.0	0.576	2695.1	1.0	0.992	1.0	1.0	0.999	1.318	1.029	3620.9	376.6	26.05	2.553
12:30:00	3.500	362.8	61.1	239.8	1.4	0.0	0.576	2695.1	1.0	0.992	1.0	1.0	0.999	1.318	1.029	3621.0	377.5	26.14	2.734
12:40:00	3.500	363.4	61.3	240.0	1.4	0.0	0.576	2695.1	1.0	0.992	1.0	1.0	0.999	1.318	1.029	3620.6	378.1	26.14	2.916
12:50:00	3.500	363.3	61.3	240.5	1.4	0.0	0.576	2695.1	1.0	0.992	1.0	1.0	0.999	1.318	1.029	3620.2	378.0	26.22	3.098
13:00:00	3.500	363.8	61.4	241.3	1.5	0.0	0.578	2695.1	1.0	0.992	1.0	1.0	0.999	1.315	1.029	3614.0	378.5	26.24	3.280
13:10:00	3.500	364.8	61.5	241.5	1.5	0.0	0.578	2695.1	1.0	0.992	1.0	1.0	0.999	1.315	1.029	3614.2	379.5	26.27	3.462
13:20:00	3.500	366.5	61.5	241.4	1.5	0.0	0.578	2695.1	1.0	0.992	1.0	1.0	0.999	1.315	1.029	3614.8	381.3	26.32	3.645
13:30:00	3.500	367.0	61.4	241.7	1.5	0.0	0.578	2695.1	1.0	0.992	1.0	1.0	0.999	1.315	1.029	3615.3	381.7	26.37	3.828
13:40:00	3.500	366.9	61.4	242.3	1.5	0.0	0.578	2695.1	1.0	0.992	1.0	1.0	0.999	1.315	1.029	3615.1	381.6	26.39	4.011
13:50:00	3.500	368.6	61.4	243.2	1.5	0.0	0.578	2695.1	1.0	0.992	1.0	1.0	0.999	1.315	1.029	3615.7	383.3	26.46	4.195
14:00:00	3.500	368.6	61.4	243.1	1.5	0.0	0.578	2695.1	1.0	0.992	1.0	1.0	0.999	1.315	1.029	3615.7	383.4	26.50	4.379
14:10:00	3.500	368.6	61.4	242.3	1.5	0.0	0.578	2695.1	1.0	0.992	1.0	1.0	0.999	1.315	1.029	3615.6	383.4	26.51	4.563
14:20:00	3.500	369.7	61.4	243.6	1.5	0.0	0.578	2695.1	1.0	0.992	1.0	1.0	0.999	1.315	1.029	3615.8	384.5	26.55	4.747
14:30:00	3.500	370.7	61.5	244.3	1.5	0.0	0.578	2695.1	1.0	0.992	1.0	1.0	0.999	1.315	1.030	3615.6	385.4	26.61	4.932
14:40:00	3.500	371.2	61.6	245.0	1.5	0.0	0.578	2695.1	1.0	0.992	1.0	1.0	0.998	1.315	1.030	3615.4	385.9	26.66	5.117
14:50:00	3.500	370.8	61.7	244.9	1.5	0.0	0.578	2695.1	1.0	0.992	1.0	1.0	0.998	1.315	1.030	3614.8	385.6	26.67	5.302
15:00:00	3.500	372.0	61.7	245.1	1.5	0.0	0.582	2695.1	1.0	0.992	1.0	1.0	0.998	1.311	1.030	3604.2	386.7	26.69	5.488
15:10:00	3.500	372.2	61.7	245.5	1.5	0.0	0.582	2695.1	1.0	0.992	1.0	1.0	0.998	1.311	1.030	3604.2	387.0	26.64	5.673
15:20:00	3.500	372.4	61.6	245.3	1.5	0.0	0.582	2695.1	1.0	0.992	1.0	1.0	0.998	1.311	1.030	3604.5	387.1	26.68	5.858
15:30:00	3.500	373.0	61.6	246.0	1.5	0.0	0.582	2695.1	1.0	0.992	1.0	1.0	0.998	1.311	1.030	3604.8	387.7	26.72	6.043
15:40:00	3.500	373.3	61.7	246.3	1.5	0.0	0.582	2695.1	1.0	0.992	1.0	1.0	0.998	1.311	1.030	3604.6	388.0	26.74	6.229
15:50:00	3.500	374.0	61.6	247.0	1.5	0.0	0.582	2695.1	1.0	0.992	1.0	1.0	0.998	1.311	1.030	3604.9	388.8	26.78	6.415
16:00:00	3.500	374.3	61.6	246.8	1.5	0.0	0.580	2695.1	1.0	0.992	1.0	1.0	0.998	1.313	1.030	3610.7	389.1	26.80	6.601
16:10:00	3.500	374.1	61.6	247.2	1.5	0.0	0.580	2695.1	1.0	0.992	1.0	1.0	0.998	1.313	1.030	3610.7	388.8	26.84	6.788
16:20:00	3.500	374.7	61.7	247.6	1.5	0.0	0.580	2695.1	1.0	0.992	1.0	1.0	0.998	1.313	1.030	3610.5	389.4	26.90	6.974
16:30:00	3.500	374.7	61.6	247.7	1.5	0.0	0.580	2695.1	1.0	0.992	1.0	1.0	0.998	1.313	1.030	3610.6	389.4	26.92	7.161
16:40:00	3.500	374.7	61.7	246.7	1.5	0.0	0.580	2695.1	1.0	0.992	1.0	1.0	0.998	1.313	1.030	3610.5	389.4	26.91	7.348
16:50:00	3.500	375.8	61.7	247.6	1.5	0.0	0.580	2695.1	1.0	0.992	1.0	1.0	0.998	1.313	1.030	3610.7	390.5	26.94	7.535
17:00:00	3.500	375.7	61.8	247.7	1.5	0.0	0.580	2695.1	1.0	0.992	1.0	1.0	0.998	1.313	1.030	3610.5	390.5	26.98	7.722
17:10:00	3.500	376.7	61.9	247.5	1.5	0.0	0.580	2695.1	1.0	0.992	1.0	1.0	0.998	1.313	1.030	3610.3	391.4	26.98	7.910

Client OMV Australia Pty Ltd

Exal Engineer M. Donald / N. Dowdell

Well No. Patricia-2

Location Ocean Bounty

Test No. Completion

Start Date 30/06 - 01/07/2002

Time hh:mm:ss	Orifice ins	GasP PSIG	GasT °F	GasD INWG	Co2 mol%	H2S ppm	GasSG fact	GasFb fact	GasFr fact	GasY fact	GasFpb fact	GasFtb fact	GasFtf fact	GasFgr fact	GasFpv fact	GasC fact	GasPf PSIA	QGastav MM/d	Gas1Cum MMcf	
03/07/02																				
17:20:00	3.500	376.4	62.0	249.0	1.5	0.0	0.580	2695.1	1.0	0.992	1.0	1.0	0.998	1.313	1.030	3609.6	391.1	27.01	8.097	
17:30:00	3.500	377.5	62.0	249.3	1.5	0.0	0.580	2695.1	1.0	0.992	1.0	1.0	0.998	1.313	1.030	3609.7	392.3	27.06	8.285	
17:40:00	3.500	386.8	62.8	240.6	1.5	0.0	0.580	2695.1	1.0	0.992	1.0	1.0	0.997	1.313	1.031	3610.7	401.6	26.93	8.444	
17:50:00	3.500	386.7	62.9	241.5	1.5	0.0	0.580	2695.1	1.0	0.992	1.0	1.0	0.997	1.313	1.031	3610.1	401.4	26.91	8.631	
18:00:00	3.500	387.4	62.9	242.6	1.5	0.0	0.580	2695.1	1.0	0.992	1.0	1.0	0.997	1.313	1.031	3610.2	402.2	27.04	8.818	
18:10:00	3.500	387.8	62.9	243.1	1.5	0.0	0.580	2695.1	1.0	0.992	1.0	1.0	0.997	1.313	1.031	3610.3	402.6	27.08	9.006	
18:20:00	3.500	388.4	63.0	243.0	1.5	0.0	0.580	2695.1	1.0	0.992	1.0	1.0	0.997	1.313	1.031	3610.2	403.2	27.11	9.194	
18:30:00	3.500	389.1	63.1	243.7	1.5	0.0	0.580	2695.1	1.0	0.992	1.0	1.0	0.997	1.313	1.031	3609.8	403.8	27.16	9.383	
18:40:00	3.500	389.2	63.1	243.3	1.5	0.0	0.580	2695.1	1.0	0.992	1.0	1.0	0.997	1.313	1.031	3609.9	403.9	27.17	9.572	
18:50:00	3.500	389.2	63.1	243.9	1.5	0.0	0.580	2695.1	1.0	0.992	1.0	1.0	0.997	1.313	1.031	3609.9	403.9	27.19	9.760	
19:00:00	3.500	388.9	63.1	244.1	1.5	0.0	0.580	2695.1	1.0	0.992	1.0	1.0	0.997	1.313	1.031	3609.9	403.7	27.17	9.949	
19:10:00	3.500	389.9	62.9	245.1	1.5	0.0	0.580	2695.1	1.0	0.992	1.0	1.0	0.997	1.313	1.031	3611.0	404.6	27.26	10.138	
19:20:00	3.500	389.5	62.9	244.1	1.5	0.0	0.580	2695.1	1.0	0.992	1.0	1.0	0.997	1.313	1.031	3610.7	404.2	27.26	10.327	
19:30:00	3.500	389.6	62.8	245.3	1.5	0.0	0.580	2695.1	1.0	0.992	1.0	1.0	0.997	1.313	1.031	3611.2	404.3	27.27	10.517	
19:40:00	3.500	389.8	62.8	244.0	1.5	0.0	0.580	2695.1	1.0	0.992	1.0	1.0	0.997	1.313	1.031	3611.6	404.5	27.28	10.706	
19:50:00	3.500	390.1	62.9	245.3	1.5	0.0	0.580	2695.1	1.0	0.992	1.0	1.0	0.997	1.313	1.031	3611.0	404.9	27.29	10.896	
20:00:00	3.500	390.1	62.9	244.7	1.5	0.0	0.584	2695.1	1.0	0.992	1.0	1.0	0.997	1.309	1.031	3600.3	404.9	27.30	11.085	
20:10:00	3.500	391.6	62.8	246.2	1.5	0.0	0.584	2695.1	1.0	0.992	1.0	1.0	0.997	1.309	1.032	3600.7	406.3	27.30	11.275	
20:20:00	3.500	391.3	62.8	245.8	1.5	0.0	0.584	2695.1	1.0	0.992	1.0	1.0	0.997	1.309	1.032	3601.0	406.0	27.32	11.464	
20:30:00	3.500	391.4	62.7	246.4	1.5	0.0	0.584	2695.1	1.0	0.992	1.0	1.0	0.997	1.309	1.032	3601.2	406.1	27.35	11.654	
20:40:00	3.500	391.5	62.6	246.3	1.5	0.0	0.584	2695.1	1.0	0.992	1.0	1.0	0.998	1.309	1.032	3601.8	406.2	27.33	11.844	
20:50:00	3.500	391.4	62.5	246.4	1.5	0.0	0.584	2695.1	1.0	0.992	1.0	1.0	0.998	1.309	1.032	3602.1	406.2	27.36	12.034	
21:00:00	3.500	392.2	62.2	246.8	1.5	0.0	0.584	2695.1	1.0	0.992	1.0	1.0	0.998	1.309	1.032	3603.6	406.9	27.43	12.225	
21:10:00	3.500	391.6	62.1	248.2	1.5	0.0	0.584	2695.1	1.0	0.992	1.0	1.0	0.998	1.309	1.032	3603.4	406.3	27.42	12.415	
21:20:00	3.500	391.9	62.2	248.7	1.5	0.0	0.584	2695.1	1.0	0.992	1.0	1.0	0.998	1.309	1.032	3603.3	406.7	27.44	12.605	
21:30:00	3.500	391.5	62.0	247.1	1.5	0.0	0.584	2695.1	1.0	0.992	1.0	1.0	0.998	1.309	1.032	3604.1	406.2	27.45	12.796	
21:40:00	3.500	391.6	61.8	248.8	1.5	0.0	0.584	2695.1	1.0	0.992	1.0	1.0	0.998	1.309	1.032	3604.7	406.3	27.46	12.987	
21:50:00	3.500	391.7	61.7	249.0	1.5	0.0	0.584	2695.1	1.0	0.992	1.0	1.0	0.998	1.309	1.032	3605.2	406.4	27.49	13.178	
22:00:00	3.500	392.2	61.7	249.8	1.5	0.0	0.586	2695.1	1.0	0.992	1.0	1.0	0.998	1.306	1.032	3599.9	407.0	27.50	13.369	
22:10:00	3.500	393.0	61.5	248.0	1.5	0.0	0.586	2695.1	1.0	0.992	1.0	1.0	0.999	1.306	1.032	3601.1	407.7	27.51	13.560	
22:20:00	3.500	393.0	61.4	248.9	1.5	0.0	0.586	2695.1	1.0	0.992	1.0	1.0	0.999	1.306	1.032	3601.5	407.7	27.55	13.751	

Client OMV Australia Pty Ltd

Exal Engineer M. Donald / N. Dowdell

Well No. Patricia-2

Location Ocean Bounty

Test No. Completion

Start Date 30/06 - 01/07/2002

Time hh:mm:ss	Orifice ins	GasP PSIG	GasT °F	GasD INWG	Co2 mol%	H2S ppm	GasSG fact	GasFb fact	GasFr fact	GasY fact	GasFpb fact	GasFtb fact	GasFtf fact	GasFgr fact	GasFpv fact	GasC fact	GasPf PSIA	QGastav MM/d	Gas1Cum MMcf
03/07/02																			
22:30:00	3.500	392.5	61.3	250.0	1.5	0.0	0.586	2695.1	1.0	0.992	1.0	1.0	0.999	1.306	1.032	3601.7	407.3	27.57	13.942
22:40:00	3.500	393.1	61.2	250.4	1.5	0.0	0.586	2695.1	1.0	0.992	1.0	1.0	0.999	1.306	1.032	3602.1	407.8	27.59	14.134
22:50:00	3.500	393.5	61.3	249.8	1.5	0.0	0.586	2695.1	1.0	0.992	1.0	1.0	0.999	1.306	1.032	3602.0	408.2	27.60	14.326
23:00:00	3.500	393.2	61.1	250.0	1.5	0.0	0.586	2695.1	1.0	0.992	1.0	1.0	0.999	1.306	1.032	3602.7	407.9	27.64	14.518
23:10:00	3.500	394.3	61.1	250.4	1.5	0.0	0.586	2695.1	1.0	0.992	1.0	1.0	0.999	1.306	1.032	3603.1	409.0	27.67	14.710
23:20:00	3.500	393.9	61.0	250.6	1.5	0.0	0.586	2695.1	1.0	0.992	1.0	1.0	0.999	1.306	1.032	3603.3	408.6	27.65	14.902
23:30:00	3.500	393.6	60.9	250.4	1.5	0.0	0.586	2695.1	1.0	0.992	1.0	1.0	0.999	1.306	1.032	3603.7	408.4	27.66	15.094
23:40:00	3.500	394.3	60.9	252.4	1.5	0.0	0.586	2695.1	1.0	0.992	1.0	1.0	0.999	1.306	1.032	3603.6	409.0	27.72	15.287
23:50:00	3.500	394.3	60.6	251.7	1.5	0.0	0.586	2695.1	1.0	0.992	1.0	1.0	0.999	1.306	1.032	3605.0	409.0	27.71	15.479
04/07/02																			
00:00:00	3.500	394.6	60.6	250.5	1.5	0.0	0.584	2695.1	1.0	0.992	1.0	1.0	0.999	1.309	1.032	3610.9	409.4	27.80	15.672
00:10:00	3.500	394.9	60.4	251.9	1.5	0.0	0.584	2695.1	1.0	0.992	1.0	1.0	1.000	1.309	1.032	3611.6	409.7	27.89	15.866
00:20:00	3.500	394.6	60.4	254.4	1.5	0.0	0.584	2695.1	1.0	0.992	1.0	1.0	1.000	1.309	1.032	3611.0	409.4	27.88	16.059
00:30:00	3.500	394.1	60.3	254.2	1.5	0.0	0.584	2695.1	1.0	0.992	1.0	1.0	1.000	1.309	1.032	3611.3	408.9	27.89	16.253
00:40:00	3.500	394.3	60.3	252.4	1.5	0.0	0.584	2695.1	1.0	0.992	1.0	1.0	1.000	1.309	1.032	3611.8	409.0	27.85	16.446
00:50:00	3.500	395.2	60.2	253.1	1.5	0.0	0.584	2695.1	1.0	0.992	1.0	1.0	1.000	1.309	1.032	3612.4	409.9	27.91	16.640
01:00:00	3.500	395.1	60.1	254.2	1.5	0.0	0.584	2695.1	1.0	0.992	1.0	1.0	1.000	1.309	1.032	3612.6	409.9	27.93	16.834
01:10:00	3.500	394.5	60.1	253.2	1.5	0.0	0.584	2695.1	1.0	0.992	1.0	1.0	1.000	1.309	1.032	3612.3	409.2	27.90	17.028
01:20:00	3.500	394.9	60.0	252.9	1.5	0.0	0.584	2695.1	1.0	0.992	1.0	1.0	1.000	1.309	1.032	3613.1	409.6	27.95	17.222
01:30:00	3.500	394.2	59.9	225.7	1.5	0.0	0.584	2695.1	1.0	0.993	1.0	1.0	1.000	1.309	1.032	3616.5	408.9	27.55	17.376
01:40:00	3.500	394.9	60.0	221.0	1.5	0.0	0.584	2695.1	1.0	0.993	1.0	1.0	1.000	1.309	1.032	3616.9	409.7	26.23	17.558
01:50:00	3.500	395.4	60.0	221.6	1.5	0.0	0.584	2695.1	1.0	0.993	1.0	1.0	1.000	1.309	1.032	3617.0	410.1	26.09	17.740
02:00:00	3.500	395.4	60.0	220.2	1.5	0.0	0.586	2695.1	1.0	0.993	1.0	1.0	1.000	1.306	1.033	3611.4	410.1	26.07	17.921
02:10:00	3.500	394.3	59.8	221.6	1.5	0.0	0.586	2695.1	1.0	0.993	1.0	1.0	1.000	1.306	1.033	3611.7	409.1	26.10	18.102
02:20:00	3.500	395.0	59.9	220.6	1.5	0.0	0.586	2695.1	1.0	0.993	1.0	1.0	1.000	1.306	1.033	3611.8	409.7	26.08	18.283
02:30:00	3.500	394.0	59.9	222.5	1.5	0.0	0.586	2695.1	1.0	0.993	1.0	1.0	1.000	1.306	1.033	3611.3	408.8	26.10	18.464
02:40:00	3.500	395.3	60.0	220.9	1.5	0.0	0.586	2695.1	1.0	0.993	1.0	1.0	1.000	1.306	1.033	3611.5	410.0	26.10	18.645
02:50:00	3.500	395.3	60.0	221.2	1.5	0.0	0.586	2695.1	1.0	0.993	1.0	1.0	1.000	1.306	1.033	3611.6	410.0	26.12	18.827
03:00:00	3.500	395.6	60.0	221.3	1.5	0.0	0.586	2695.1	1.0	0.993	1.0	1.0	1.000	1.306	1.033	3611.3	410.3	26.12	19.008
03:10:00	3.500	395.4	60.1	220.8	1.5	0.0	0.586	2695.1	1.0	0.993	1.0	1.0	1.000	1.306	1.033	3611.2	410.1	26.09	19.189

Client OMV Australia Pty Ltd

Exal Engineer M. Donald / N. Dowdell

Well No. Patricia-2

Location Ocean Bounty

Test No. Completion

Start Date 30/06 - 01/07/2002

Time hh:mm:ss	Orifice ins	GasP PSIG	GasT °F	GasD INWG	Co2 mol%	H2S ppm	GasSG fact	GasFb fact	GasFr fact	GasY fact	GasFpb fact	GasFtb fact	GasFtf fact	GasFgr fact	GasFpv fact	GasC fact	GasPf PSIA	QGas1av MM/d	Gas1Cum MMcf	
<u>04/07/02</u>																				
08:30:00	3.500	401.3	60.5	243.5	1.5	0.0	0.582	2695.1	1.0	0.993	1.0	1.0	0.999	1.311	1.033	3619.5	416.0	27.54	25.128	
08:40:00	3.500	404.8	60.9	237.3	1.5	0.0	0.582	2695.1	1.0	0.993	1.0	1.0	0.999	1.311	1.033	3619.9	419.5	27.63	25.320	
08:50:00	3.500	390.2	61.0	236.8	1.5	0.0	0.582	2695.1	1.0	0.993	1.0	1.0	0.999	1.311	1.032	3614.5	404.9	26.98	25.509	
09:00:00	3.500	386.2	61.0	229.4	1.5	0.0	0.582	2695.1	1.0	0.993	1.0	1.0	0.999	1.311	1.031	3614.1	401.0	26.34	25.692	
09:10:00	3.500	391.9	60.7	235.9	1.5	0.0	0.582	2695.1	1.0	0.993	1.0	1.0	0.999	1.311	1.032	3616.3	406.6	26.77	25.878	
09:20:00	3.500	395.7	60.7	236.0	1.5	0.0	0.582	2695.1	1.0	0.993	1.0	1.0	0.999	1.311	1.032	3617.6	410.4	27.05	26.065	
09:30:00	3.500	399.3	60.6	238.1	1.5	0.0	0.582	2695.1	1.0	0.993	1.0	1.0	0.999	1.311	1.032	3619.0	414.0	27.23	26.254	
09:40:00	3.500	401.0	60.6	242.1	1.5	0.0	0.582	2695.1	1.0	0.993	1.0	1.0	0.999	1.311	1.033	3619.5	415.7	27.55	26.445	
09:50:00	3.500	402.0	60.5	241.1	1.5	0.0	0.582	2695.1	1.0	0.993	1.0	1.0	0.999	1.311	1.033	3620.1	416.7	27.53	26.636	
10:00:00	3.500	401.4	60.7	242.3	1.5	0.0	0.582	2695.1	1.0	0.993	1.0	1.0	0.999	1.311	1.033	3619.2	416.1	27.59	26.827	
10:10:00	3.500	401.7	60.6	242.1	1.5	0.0	0.582	2695.1	1.0	0.993	1.0	1.0	0.999	1.311	1.033	3619.7	416.4	27.53	27.018	
10:20:00	3.500	402.0	60.5	241.6	1.5	0.0	0.582	2695.1	1.0	0.993	1.0	1.0	0.999	1.311	1.033	3620.1	416.7	27.61	27.210	
10:30:00	3.500	402.3	60.4	241.6	1.5	0.0	0.582	2695.1	1.0	0.993	1.0	1.0	1.000	1.311	1.033	3620.5	417.0	27.60	27.402	
10:40:00	3.500	402.6	60.6	243.4	1.5	0.0	0.582	2695.1	1.0	0.993	1.0	1.0	0.999	1.311	1.033	3619.9	417.3	27.61	27.593	
10:50:00	3.500	403.0	60.5	243.2	1.5	0.0	0.582	2695.1	1.0	0.993	1.0	1.0	1.000	1.311	1.033	3620.4	417.8	27.62	27.785	
11:00:00	0.000	3.7	33.0	0.0	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	18.4	0.00	27.862	
11:10:00	0.000	2.7	45.7	0.0	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	17.4	0.00	27.862	
11:20:00	0.000	3.2	50.7	0.0	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	18.0	0.00	27.862	
11:30:00	0.000	3.2	52.8	0.0	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	18.0	0.00	27.862	
11:40:00	0.000	3.2	53.9	0.0	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	18.0	0.00	27.862	
11:50:00	0.000	2.9	54.6	0.0	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	17.6	0.00	27.862	
12:00:00	0.000	2.7	55.1	0.0	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	17.4	0.00	27.862	
12:10:00	0.000	3.1	55.6	0.0	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	17.8	0.00	27.862	
12:20:00	0.000	3.4	55.9	0.0	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	18.1	0.00	27.862	
12:30:00	0.000	3.1	56.0	0.0	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	17.8	0.00	27.862	
12:40:00	0.000	2.9	56.4	0.0	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	17.6	0.00	27.862	
12:50:00	0.000	2.9	56.6	0.0	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	17.6	0.00	27.862	
13:00:00	0.000	2.9	56.6	0.0	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	17.6	0.00	27.862	
13:10:00	0.000	2.7	56.9	0.0	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	17.4	0.00	27.862	
13:20:00	0.000	3.1	57.3	0.0	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	17.8	0.00	27.862	
13:30:00	0.000	3.4	57.4	0.0	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	18.1	0.00	27.862	

Client OMV Australia Pty Ltd

Exal Engineer M. Donald / N. Dowdell

Well No. Patricia-2

Location Ocean Bounty

Test No. Completion

Start Date 30/06 - 01/07/2002

Time hh:mm:ss	Orifice ins	GasP PSIG	GasT °F	GasD INWG	Co2 mol%	H2S ppm	GasSG fact	GasFb fact	GasFr fact	GasY fact	GasFpb fact	GasFtb fact	GasFtf fact	GasFgr fact	GasFpv fact	GasC fact	GasPf PSIA	QGas1av MM/d	Gas1Cum MMcf
<u>04/07/02</u>																			
13:40:00	0.000	3.3	57.3	0.0	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	18.0	0.00	27.862
13:50:00	0.000	2.9	57.2	0.0	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	17.6	0.00	27.862
14:00:00	0.000	2.9	57.2	0.0	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	17.6	0.00	27.862
14:10:00	0.000	3.0	57.2	0.0	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	17.7	0.00	27.862
14:20:00	0.000	3.0	57.2	0.0	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	17.7	0.00	27.862
14:30:00	0.000	3.0	57.3	0.0	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	17.7	0.00	27.862
14:40:00	0.000	3.3	57.5	0.0	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	18.0	0.00	27.862
14:50:00	0.000	3.8	57.5	0.0	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	18.5	0.00	27.862
15:00:00	0.000	3.7	57.4	0.0	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	18.4	0.00	27.862
15:10:00	0.000	3.2	57.0	0.0	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	18.0	0.00	27.862
15:20:00	0.000	3.7	56.6	0.0	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	18.4	0.00	27.862
15:30:00	0.000	8.1	56.9	0.5	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	22.8	0.00	27.862
15:40:00	0.000	210.3	43.1	12.1	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	225.1	0.00	27.862
15:50:00	0.000	368.2	36.9	11.3	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	382.9	0.00	27.862
16:00:00	0.000	253.4	31.3	15.0	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	268.1	0.00	27.862
16:10:00	0.000	359.0	35.0	12.3	1.5	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	373.7	0.00	27.862
16:20:00	2.250	365.1	35.1	192.9	1.5	0.0	0.582	1039.5	1.0	0.994	1.0	1.0	1.025	1.311	1.036	1437.6	379.8	6.08	27.883
16:30:00	2.250	365.4	35.8	207.2	1.5	0.0	0.582	1039.5	1.0	0.994	1.0	1.0	1.024	1.311	1.035	1435.7	380.1	9.50	27.949
16:40:00	2.250	365.6	36.3	200.0	1.5	0.0	0.582	1039.5	1.0	0.994	1.0	1.0	1.024	1.311	1.035	1435.2	380.3	9.57	28.015
16:50:00	2.250	364.1	36.6	203.3	1.5	0.0	0.582	1039.5	1.0	0.994	1.0	1.0	1.023	1.311	1.035	1434.3	378.9	9.48	28.081
17:00:00	2.250	363.5	36.9	200.6	1.5	0.0	0.582	1039.5	1.0	0.994	1.0	1.0	1.023	1.311	1.035	1433.9	378.2	9.44	28.147
17:10:00	2.250	364.3	37.1	206.2	1.5	0.0	0.582	1039.5	1.0	0.994	1.0	1.0	1.023	1.311	1.035	1433.3	379.0	9.56	28.213
17:20:00	2.250	366.1	37.3	195.8	1.5	0.0	0.582	1039.5	1.0	0.994	1.0	1.0	1.023	1.311	1.035	1433.8	380.8	9.53	28.279
17:30:00	2.250	365.1	37.3	207.3	1.5	0.0	0.582	1039.5	1.0	0.994	1.0	1.0	1.023	1.311	1.035	1433.1	379.8	9.52	28.346
17:40:00	2.250	364.3	37.2	186.3	1.5	0.0	0.582	1039.5	1.0	0.994	1.0	1.0	1.023	1.311	1.035	1434.1	379.0	9.43	28.411
17:50:00	2.250	364.9	37.2	191.6	1.5	0.0	0.582	1039.5	1.0	0.994	1.0	1.0	1.023	1.311	1.035	1433.9	379.6	9.46	28.477
18:00:00	2.250	363.7	37.1	206.2	1.5	0.0	0.584	1039.5	1.0	0.994	1.0	1.0	1.023	1.309	1.035	1431.1	378.4	9.46	28.543
18:10:00	2.250	363.2	36.9	197.7	1.5	0.0	0.584	1039.5	1.0	0.994	1.0	1.0	1.023	1.309	1.035	1431.8	378.0	9.48	28.609
18:20:00	2.250	363.1	36.9	209.1	1.5	0.0	0.584	1039.5	1.0	0.994	1.0	1.0	1.023	1.309	1.035	1431.2	377.8	9.52	28.675
18:30:00	2.250	362.9	37.1	204.4	1.5	0.0	0.584	1039.5	1.0	0.994	1.0	1.0	1.023	1.309	1.035	1431.1	377.6	9.57	28.741
18:40:00	2.250	363.8	36.9	207.2	1.5	0.0	0.584	1039.5	1.0	0.994	1.0	1.0	1.023	1.309	1.035	1431.5	378.6	9.50	28.806

Client **OMV Australia Pty Ltd**

Exal Engineer **M. Donald / N. Dowdell**

Well No. **Patricia-2**

Location **Ocean Bounty**

Test No. **Completion**

Start Date **30/06 - 01/07/2002**

Time hh:mm:ss	Orifice ins	GasP PSIG	GasT °F	GasD INWG	Co2 mol%	H2S ppm	GasSG fact	GasFb fact	GasFr fact	GasY fact	GasFpb fact	GasFtb fact	GasFtf fact	GasFgr fact	GasFpv fact	GasC fact	GasPf PSIA	QGastav MM/d	Gas1Cum MMcf	
<u>04/07/02</u>																				
18:50:00	2.250	362.3	36.9	200.9	1.5	0.0	0.584	1039.5	1.0	0.994	1.0	1.0	1.023	1.309	1.035	1431.5	377.0	9.46	28.872	
19:00:00	2.250	363.4	37.3	208.9	1.5	0.0	0.584	1039.5	1.0	0.994	1.0	1.0	1.023	1.309	1.035	1430.5	378.1	9.46	28.938	
19:10:00	2.250	362.9	37.7	187.7	1.5	0.0	0.584	1039.5	1.0	0.994	1.0	1.0	1.022	1.309	1.035	1430.8	377.6	9.44	29.003	
19:20:00	2.250	364.3	37.9	196.8	1.5	0.0	0.584	1039.5	1.0	0.994	1.0	1.0	1.022	1.309	1.035	1430.2	379.0	9.41	29.069	
19:30:00	2.250	363.8	38.0	198.2	1.5	0.0	0.584	1039.5	1.0	0.994	1.0	1.0	1.022	1.309	1.035	1429.9	378.5	9.34	29.134	
19:40:00	2.250	363.0	38.1	194.9	1.5	0.0	0.584	1039.5	1.0	0.994	1.0	1.0	1.022	1.309	1.035	1429.7	377.7	9.49	29.200	
19:50:00	2.250	365.0	37.8	200.1	1.5	0.0	0.584	1039.5	1.0	0.994	1.0	1.0	1.022	1.309	1.035	1430.3	379.7	9.46	29.266	
20:00:00	0.000	359.9	37.6	12.1	1.5	0.0	0.584	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	374.6	7.56	29.325	
20:10:00	0.000	232.7	39.0	14.0	1.5	0.0	0.584	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	247.4	0.00	29.325	
20:20:00	0.000	293.1	43.3	12.2	1.5	0.0	0.584	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	307.8	0.00	29.325	
20:30:00	3.250	304.8	44.4	238.6	1.5	0.0	0.584	2276.6	1.0	0.991	1.0	1.0	1.015	1.309	1.028	3080.9	319.6	12.26	29.384	
20:40:00	3.250	293.4	44.6	251.2	1.5	0.0	0.584	2276.6	1.0	0.990	1.0	1.0	1.015	1.309	1.027	3074.3	308.1	20.58	29.527	
20:50:00	3.250	293.4	45.2	250.7	1.5	0.0	0.584	2276.6	1.0	0.990	1.0	1.0	1.015	1.309	1.027	3072.5	308.2	20.55	29.669	
21:00:00	3.250	295.1	45.5	250.6	1.5	0.0	0.586	2276.6	1.0	0.990	1.0	1.0	1.014	1.306	1.027	3067.4	309.8	20.56	29.812	
21:10:00	3.250	295.8	45.8	250.8	1.5	0.0	0.586	2276.6	1.0	0.990	1.0	1.0	1.014	1.306	1.027	3066.4	310.5	20.54	29.955	
21:20:00	3.250	295.1	46.1	250.7	1.5	0.0	0.586	2276.6	1.0	0.990	1.0	1.0	1.014	1.306	1.027	3065.0	309.9	20.55	30.097	
21:30:00	3.250	296.7	46.5	250.7	1.5	0.0	0.586	2276.6	1.0	0.990	1.0	1.0	1.013	1.306	1.027	3064.4	311.4	20.56	30.240	
21:40:00	3.250	296.7	46.7	250.8	1.5	0.0	0.586	2276.6	1.0	0.990	1.0	1.0	1.013	1.306	1.027	3063.5	311.4	20.53	30.383	
21:50:00	3.250	296.4	46.9	250.2	1.5	0.0	0.586	2276.6	1.0	0.990	1.0	1.0	1.013	1.306	1.027	3062.8	311.1	20.50	30.525	
22:00:00	3.250	296.1	47.1	249.0	1.5	0.0	0.586	2276.6	1.0	0.990	1.0	1.0	1.013	1.306	1.027	3062.1	310.8	20.52	30.668	
22:10:00	3.250	296.6	47.3	249.6	1.5	0.0	0.586	2276.6	1.0	0.990	1.0	1.0	1.012	1.306	1.027	3061.3	311.4	20.51	30.810	
22:20:00	3.250	296.3	47.5	249.7	1.5	0.0	0.586	2276.6	1.0	0.990	1.0	1.0	1.012	1.306	1.027	3060.5	311.1	20.50	30.953	
22:30:00	3.250	296.6	47.6	251.3	1.5	0.0	0.586	2276.6	1.0	0.990	1.0	1.0	1.012	1.306	1.027	3060.2	311.4	20.50	31.095	
22:40:00	3.250	296.7	47.7	250.2	1.5	0.0	0.586	2276.6	1.0	0.990	1.0	1.0	1.012	1.306	1.027	3059.9	311.4	20.51	31.238	
22:50:00	3.250	295.6	48.0	252.5	1.5	0.0	0.586	2276.6	1.0	0.990	1.0	1.0	1.012	1.306	1.027	3058.4	310.4	20.50	31.380	
23:00:00	3.250	295.1	48.0	251.7	1.5	0.0	0.586	2276.6	1.0	0.990	1.0	1.0	1.012	1.306	1.027	3058.2	309.9	20.49	31.522	
23:10:00	3.250	295.8	48.1	250.4	1.5	0.0	0.586	2276.6	1.0	0.990	1.0	1.0	1.012	1.306	1.027	3058.2	310.5	20.49	31.664	
23:20:00	3.250	295.8	48.3	249.3	1.5	0.0	0.586	2276.6	1.0	0.990	1.0	1.0	1.012	1.306	1.027	3057.8	310.6	20.47	31.807	
23:30:00	3.250	295.6	48.5	250.7	1.5	0.0	0.586	2276.6	1.0	0.990	1.0	1.0	1.011	1.306	1.027	3056.8	310.4	20.45	31.949	
23:40:00	3.250	295.2	48.6	250.5	1.5	0.0	0.586	2276.6	1.0	0.990	1.0	1.0	1.011	1.306	1.026	3056.3	309.9	20.43	32.091	
23:50:00	3.250	295.0	48.5	249.5	1.5	0.0	0.586	2276.6	1.0	0.990	1.0	1.0	1.011	1.306	1.026	3056.6	309.8	20.43	32.233	

Client **OMV Australia Pty Ltd**

Exal Engineer **M. Donald / N. Dowdell**

Well No. **Patricia-2**

Location **Ocean Bounty**

Test No. **Completion**

Start Date **30/06 - 01/07/2002**

Time hh:mm:ss	Orifice ins	GasP PSIG	GasT °F	GasD INWG	Co2 mol%	H2S ppm	GasSG fact	GasFb fact	GasFr fact	GasY fact	GasFpb fact	GasFtb fact	GasFtf fact	GasFgr fact	GasFpv fact	GasC fact	GasPf PSIA	QGas1av MM/d	Gas1Cum MMcf
05/07/02																			
00:00:00	3.250	294.7	48.7	248.9	1.5	0.0	0.586	2276.6	1.0	0.990	1.0	1.0	1.011	1.306	1.026	3055.9	309.4	20.39	32.374
00:10:00	3.250	295.0	48.8	249.9	1.5	0.0	0.586	2276.6	1.0	0.990	1.0	1.0	1.011	1.306	1.026	3055.5	309.8	20.40	32.516
00:20:00	3.250	295.1	48.9	248.0	1.5	0.0	0.586	2276.6	1.0	0.990	1.0	1.0	1.011	1.306	1.026	3055.4	309.9	20.36	32.657
00:30:00	3.250	291.8	48.9	250.9	1.5	0.0	0.586	2276.6	1.0	0.990	1.0	1.0	1.011	1.306	1.026	3054.0	306.5	20.34	32.798
00:40:00	3.250	292.0	49.0	250.5	1.5	0.0	0.586	2276.6	1.0	0.990	1.0	1.0	1.011	1.306	1.026	3053.7	306.7	20.32	32.939
00:50:00	3.250	294.5	49.2	246.9	1.5	0.0	0.586	2276.6	1.0	0.990	1.0	1.0	1.011	1.306	1.026	3054.4	309.2	20.30	33.080
01:00:00	3.250	294.0	49.2	249.1	1.5	0.0	0.586	2276.6	1.0	0.990	1.0	1.0	1.011	1.306	1.026	3053.7	308.7	20.27	33.221
01:10:00	3.250	294.7	49.3	246.8	1.5	0.0	0.586	2276.6	1.0	0.990	1.0	1.0	1.011	1.306	1.026	3054.2	309.4	20.27	33.362
01:20:00	3.250	294.7	49.4	246.2	1.5	0.0	0.586	2276.6	1.0	0.990	1.0	1.0	1.010	1.306	1.026	3053.8	309.4	20.28	33.503
01:30:00	3.250	293.7	49.4	249.4	1.5	0.0	0.586	2276.6	1.0	0.990	1.0	1.0	1.010	1.306	1.026	3052.9	308.4	20.26	33.643
01:40:00	3.250	293.5	49.3	248.3	1.5	0.0	0.586	2276.6	1.0	0.990	1.0	1.0	1.010	1.306	1.026	3053.4	308.2	20.31	33.784
01:50:00	3.250	292.4	49.5	249.1	1.5	0.0	0.586	2276.6	1.0	0.990	1.0	1.0	1.010	1.306	1.026	3052.1	307.1	20.25	33.925
02:00:00	0.000	286.9	49.5	14.3	1.5	0.0	0.586	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	301.7	12.14	34.038
02:10:00	0.000	374.9	56.4	13.8	1.5	0.0	0.586	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	389.6	0.00	34.038
02:20:00	0.000	381.7	59.2	13.0	1.5	0.0	0.586	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	396.4	0.00	34.038
02:30:00	3.750	388.9	60.5	177.8	1.5	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	1.000	1.306	1.032	4250.6	403.7	27.25	34.161
02:40:00	3.750	392.4	61.1	175.3	1.5	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.999	1.306	1.032	4249.2	407.1	27.27	34.350
02:50:00	3.750	393.2	61.5	178.1	1.5	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.999	1.306	1.032	4247.2	407.9	27.42	34.541
03:00:00	3.750	394.3	61.8	175.8	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.998	1.306	1.032	4247.4	409.0	27.45	34.731
03:10:00	3.750	394.9	62.1	177.0	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.998	1.306	1.032	4246.0	409.6	27.45	34.922
03:20:00	3.750	396.0	62.2	178.6	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.998	1.306	1.032	4245.5	410.7	27.55	35.113
03:30:00	3.750	396.0	62.3	180.0	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.998	1.306	1.032	4244.8	410.7	27.61	35.305
03:40:00	3.750	396.6	62.5	178.9	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.998	1.306	1.032	4244.1	411.3	27.63	35.497
03:50:00	3.750	397.3	62.5	180.3	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.998	1.306	1.032	4244.6	412.1	27.67	35.689
04:00:00	3.750	398.9	62.7	181.1	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.997	1.306	1.033	4243.9	413.6	27.78	35.882
04:10:00	3.750	399.0	62.9	179.1	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.997	1.306	1.033	4243.3	413.8	27.82	36.075
04:20:00	3.750	399.3	62.8	181.9	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.997	1.306	1.033	4243.6	414.0	27.83	36.268
04:30:00	3.750	399.3	62.7	178.9	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.997	1.306	1.033	4244.2	414.0	27.84	36.461
04:40:00	3.750	399.7	62.6	181.0	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.997	1.306	1.033	4244.5	414.4	27.90	36.655
04:50:00	3.750	399.7	62.9	181.8	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.997	1.306	1.033	4243.3	414.4	27.95	36.849
05:00:00	3.750	400.3	63.0	181.1	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.997	1.306	1.033	4243.2	415.0	27.88	37.042

Client OMV Australia Pty Ltd

Exal Engineer M. Donald / N. Dowdell

Well No. Patricia-2

Location Ocean Bounty

Test No. Completion

Start Date 30/06 - 01/07/2002

Time hh:mm:ss	Orifice ins	GasP PSIG	GasT °F	GasD INWG	Co2 mol%	H2S ppm	GasSG fact	GasFb fact	GasFr fact	GasY fact	GasFpb fact	GasFtb fact	GasFtf fact	GasFgr fact	GasFpv fact	GasC fact	GasPf PSIA	QGasIav MM/d	Gas1Cum MMcf
<u>05/07/02</u>																			
05:10:00	3.750	400.9	62.9	179.6	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.997	1.306	1.033	4243.9	415.7	27.87	37.236
05:20:00	3.750	401.0	62.9	181.5	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.997	1.306	1.033	4243.7	415.7	27.92	37.430
05:30:00	3.750	400.2	62.9	180.9	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.997	1.306	1.033	4243.3	414.9	27.95	37.624
05:40:00	3.750	400.4	63.1	182.7	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.997	1.306	1.033	4242.3	415.1	27.96	37.818
05:50:00	3.750	400.6	63.3	181.1	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.997	1.306	1.033	4241.7	415.4	27.92	38.012
06:00:00	3.750	400.6	63.3	181.3	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.997	1.306	1.033	4241.6	415.4	27.90	38.206
06:10:00	3.750	401.6	63.3	180.0	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.997	1.306	1.033	4242.0	416.4	27.94	38.400
06:20:00	3.750	401.4	63.4	180.8	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.997	1.306	1.033	4241.4	416.1	27.96	38.594
06:30:00	3.750	401.2	63.5	180.7	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.997	1.306	1.033	4241.1	415.9	27.92	38.788
06:40:00	3.750	400.6	63.4	181.1	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.997	1.306	1.033	4241.1	415.4	27.96	38.982
06:50:00	3.750	400.6	63.5	184.0	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.997	1.306	1.033	4240.4	415.4	27.98	39.177
07:00:00	3.750	400.6	63.4	181.6	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.997	1.306	1.033	4241.0	415.3	27.95	39.371
07:10:00	3.750	401.9	63.4	181.6	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.997	1.306	1.033	4241.7	416.7	27.99	39.565
07:20:00	3.750	401.7	63.3	181.1	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.997	1.306	1.033	4241.8	416.4	28.03	39.760
07:30:00	3.750	401.4	63.5	181.6	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.997	1.306	1.033	4241.0	416.1	27.96	39.954
07:40:00	3.750	401.6	63.5	183.2	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.997	1.306	1.033	4240.5	416.3	28.04	40.149
07:50:00	3.750	401.6	63.5	182.3	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.997	1.306	1.033	4240.7	416.4	28.02	40.344
08:00:00	3.750	401.6	63.5	182.7	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.997	1.306	1.033	4241.0	416.4	28.06	40.538
08:10:00	3.750	401.3	63.4	181.4	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.997	1.306	1.033	4241.2	416.0	27.89	40.732
08:20:00	3.750	401.5	63.5	180.8	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.997	1.306	1.033	4240.9	416.2	28.00	40.927
08:30:00	3.750	401.7	63.4	184.2	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.997	1.306	1.033	4240.9	416.4	28.05	41.121
08:40:00	3.750	402.7	63.5	182.3	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.997	1.306	1.033	4241.4	417.4	28.02	41.316
08:50:00	3.750	401.3	63.5	182.8	1.3	0.0	0.586	3172.2	1.0	0.994	1.0	1.0	0.997	1.306	1.033	4240.5	416.0	27.94	41.510
09:00:00	3.750	401.4	63.6	181.3	1.3	0.0	0.582	3172.2	1.0	0.994	1.0	1.0	0.997	1.311	1.032	4253.3	416.1	28.06	41.705
09:10:00	3.750	400.9	63.7	182.8	1.3	0.0	0.582	3172.2	1.0	0.994	1.0	1.0	0.996	1.311	1.032	4252.5	415.7	28.07	41.900
09:20:00	3.750	401.3	63.5	183.4	1.3	0.0	0.582	3172.2	1.0	0.994	1.0	1.0	0.997	1.311	1.032	4253.3	416.0	28.09	42.095
09:30:00	3.750	401.6	63.9	180.3	1.3	0.0	0.582	3172.2	1.0	0.994	1.0	1.0	0.996	1.311	1.032	4252.1	416.3	28.07	42.290
09:40:00	3.750	402.9	63.7	183.0	1.3	0.0	0.582	3172.2	1.0	0.994	1.0	1.0	0.996	1.311	1.032	4253.2	417.6	28.14	42.486
09:50:00	3.750	402.5	63.7	181.9	1.3	0.0	0.582	3172.2	1.0	0.994	1.0	1.0	0.996	1.311	1.032	4253.1	417.3	28.13	42.681
10:00:00	0.000	400.8	64.6	181.7	1.3	0.0	0.582	0.0	0.0	0.000	0.0	0.0	0.000	0.000	0.000	0.0	415.6	22.55	42.857

CASED HOLE SERVICES



QAD 065

Rev. 4 Issued Oct 1994

SAMPLE LISTING

Client: OMV Australia	Well No: Patricia-2	Field: Vic/L21
Test: Completion	Rig: Ocean Bounty	Job No: J02/188

Sample No.	Test No.	Time	Date	Nature	Sampling Points	Container Description/ Sample Volume	Cylinder No.	Comments
1-1	Completion	15:00	03/07/2002	Water	Water Line	500ml Pyrex	1-1	
1-2	Completion	15:00	03/07/2002	Water	Water Line	5lt Steel Drum	1-2	
1-3	Completion	17:00	03/07/2002	Water	Water Line	500ml Pyrex	1-3	
1-4	Completion	17:00	03/07/2002	Water	Water Line	5lt Steel Drum	1-4	
1-5	Completion	19:00	03/07/2002	Water	Water Line	500ml Pyrex	1-5	
1-6	Completion	19:00	03/07/2002	Water	Water Line	5lt Steel Drum	1-6	
1-7	Completion	21:00	03/07/2002	Water	Water Line	500ml Pyrex	1-7	
1-8	Completion	21:00	03/07/2002	Water	Water Line	5lt Steel Drum	1-8	
1-9	Completion	23:00	03/07/2002	Water	Water Line	500ml Pyrex	1-9	
1-10	Completion	23:00	03/07/2002	Water	Water Line	4lt Steel Drum	1-10	
1-11	Completion	01:00	04/07/2002	Water	Water Line	500ml Pyrex	1-11	
1-12	Completion	01:00	04/07/2002	Water	Water Line	4lt Steel Drum	1-12	
1-13	Completion	03:00	04/07/2002	Water	Water Line	500ml Pyrex	1-13	
1-14	Completion	03:00	04/07/2002	Water	Water Line	4lt Steel Drum	1-14	
1-15	Completion	05:00	04/07/2002	Water	Water Line	500ml Pyrex	1-15	
1-16	Completion	05:00	04/07/2002	Water	Water Line	4lt Steel Drum	1-16	
1-17	Completion	07:00	04/07/2002	Water	Water Line	500ml Pyrex	1-17	
1-18	Completion	07:00	04/07/2002	Water	Water Line	4lt Steel Drum	1-18	
1-19	Completion	17:30	04/07/2002	Sep Gas	Sep Gas Line	20 Litre Luxfer	2357-CI-F	

CASED HOLE SERVICES



ATMOSPHERIC SAMPLE

QAD 070
Rev. 6 Issued Jul 2000

Client:	OMV Australia	Well No:	Patricia-2
Test:	Completion	Rig:	Ocean Bounty
Field:	Vic/L21	Perforations:	
Sample No:	1-1	Cylinder No:	1-1

IDENTIFICATION

Sample Nature	: Water
Date of Sampling	: 03/07/2002
Time Start/Finish	: 15:00 - 15:15
Sampling Point	: Water Line

FINAL TRANSPORTATION CONDITIONS

Sample Container Type / Volume	: 500ml Pyrex
Sample Volume	: 500mls
H2S Concentration	:
Liquid Gravity	:

COMMENTS

Sample Taken By: EXAL

Data and Flowrates (averaged) entered manually from 3rd Party systems.

Production Conditions supplied by Well Test Company

EXPRO

CASED HOLE SERVICES



ATMOSPHERIC SAMPLE

QAD 070
Rev. 6 Issued Jul 2000

Client:	OMV Australia	Well No:	Patricia-2
Test:	Completion	Rig:	Ocean Bounty
Field:	Vic/L21	Perforations:	
Sample No:	1-2	Cylinder No:	1-2

IDENTIFICATION

Sample Nature	: Water
Date of Sampling	: 03/07/2002
Time Start/Finish	: 15:00 - 15:15
Sampling Point	: Water Line

FINAL TRANSPORTATION CONDITIONS

Sample Container Type / Volume	: 5lt Steel Drum
Sample Volume	: 5 Litres
H2S Concentration	:
Liquid Gravity	:

COMMENTS

Sample Taken By: EXAL

Data and Flowrates (averaged) entered manually from 3rd Party systems.

Production Conditions supplied by Well Test Company

EXPRO

CASED HOLE SERVICES



ATMOSPHERIC SAMPLE

QAD 070
Rev. 6 Issued Jul 2000

Client:	OMV Australia	Well No:	Patricia-2
Test:	Completion	Rig:	Ocean Bounty
Field:	Vic/L21	Perforations:	
Sample No:	1-3	Cylinder No:	1-3

IDENTIFICATION

Sample Nature	: Water
Date of Sampling	: 03/07/2002
Time Start/Finish	: 17:00 - 17:15
Sampling Point	: Water Line

FINAL TRANSPORTATION CONDITIONS

Sample Container Type / Volume	: 500ml Pyrex
Sample Volume	: 500mls
H2S Concentration	:
Liquid Gravity	:

COMMENTS

Sample Taken By: EXAL

Data and Flowrates (averaged) entered manually from 3rd Party systems.

Production Conditions supplied by Well Test Company

EXPRO

CASED HOLE SERVICES



ATMOSPHERIC SAMPLE

QAD 070
Rev. 6 Issued Jul 2000

Client:	OMV Australia	Well No:	Patricia-2
Test:	Completion	Rig:	Ocean Bounty
Field:	Vic/L21	Perforations:	
Sample No:	1-4	Cylinder No:	1-4

IDENTIFICATION

Sample Nature	: Water
Date of Sampling	: 03/07/2002
Time Start/Finish	: 17:00 - 17:15
Sampling Point	: Water Line

FINAL TRANSPORTATION CONDITIONS

Sample Container Type / Volume	: 5lt Steel Drum
Sample Volume	: 5 Litres
H2S Concentration	:
Liquid Gravity	:

COMMENTS

Sample Taken By: EXAL

Data and Flowrates (averaged) entered manually from 3rd Party systems.

Production Conditions supplied by Well Test Company

EXPRO

CASED HOLE SERVICES



ATMOSPHERIC SAMPLE

QAD 070
Rev. 6 Issued Jul 2000

Client:	OMV Australia	Well No:	Patricia-2
Test:	Completion	Rig:	Ocean Bounty
Field:	Vic/L21	Perforations:	
Sample No:	1-5	Cylinder No:	1-5

IDENTIFICATION

Sample Nature	: Water
Date of Sampling	: 03/07/2002
Time Start/Finish	: 19:00 - 19:15
Sampling Point	: Water Line

FINAL TRANSPORTATION CONDITIONS

Sample Container Type / Volume	: 500ml Pyrex
Sample Volume	: 500mls
H2S Concentration	:
Liquid Gravity	:

COMMENTS

Sample Taken By: EXAL

Data and Flowrates (averaged) entered manually from 3rd Party systems.

Production Conditions supplied by Well Test Company

EXPRO

CASED HOLE SERVICES



ATMOSPHERIC SAMPLE

QAD 070
Rev. 6 Issued Jul 2000

Client:	OMV Australia	Well No:	Patricia-2
Test:	Completion	Rig:	Ocean Bounty
Field:	Vic/L21	Perforations:	
Sample No:	1-6	Cylinder No:	1-6

IDENTIFICATION

Sample Nature	: Water
Date of Sampling	: 03/07/2002
Time Start/Finish	: 19:00 - 19:15
Sampling Point	: Water Line

FINAL TRANSPORTATION CONDITIONS

Sample Container Type / Volume	: 5lt Steel Drum
Sample Volume	: 5 Litres
H2S Concentration	:
Liquid Gravity	:

COMMENTS

Sample Taken By: EXAL

Data and Flowrates (averaged) entered manually from 3rd Party systems.

Production Conditions supplied by Well Test Company

EXPRO

CASED HOLE SERVICES



ATMOSPHERIC SAMPLE

QAD 070
Rev. 6 Issued Jul 2000

Client:	OMV Australia	Well No:	Patricia-2
Test:	Completion	Rig:	Ocean Bounty
Field:	Vic/L21	Perforations:	
Sample No:	1-7	Cylinder No:	1-7

IDENTIFICATION

Sample Nature	: Water
Date of Sampling	: 03/07/2002
Time Start/Finish	: 21:00 - 21:15
Sampling Point	: Water Line

FINAL TRANSPORTATION CONDITIONS

Sample Container Type / Volume	: 500ml Pyrex
Sample Volume	: 500mls
H2S Concentration	:
Liquid Gravity	:

COMMENTS

Sample Taken By: EXAL

Data and Flowrates (averaged) entered manually from 3rd Party systems.

Production Conditions supplied by Well Test Company

EXPRO

CASED HOLE SERVICES



ATMOSPHERIC SAMPLE

QAD 070
Rev. 6 Issued Jul 2000

Client:	OMV Australia	Well No:	Patricia-2
Test:	Completion	Rig:	Ocean Bounty
Field:	Vic/L21	Perforations:	
Sample No:	1-8	Cylinder No:	1-8

IDENTIFICATION

Sample Nature	: Water
Date of Sampling	: 03/07/2002
Time Start/Finish	: 21:00 - 21:15
Sampling Point	: Water Line

FINAL TRANSPORTATION CONDITIONS

Sample Container Type / Volume	: 5lt Steel Drum
Sample Volume	: 5 Litres
H2S Concentration	:
Liquid Gravity	:

COMMENTS

Sample Taken By: EXAL

Data and Flowrates (averaged) entered manually from 3rd Party systems.

Production Conditions supplied by Well Test Company

EXPRO

CASED HOLE SERVICES



ATMOSPHERIC SAMPLE

QAD 070
Rev. 6 Issued Jul 2000

Client:	OMV Australia	Well No:	Patricia-2
Test:	Completion	Rig:	Ocean Bounty
Field:	Vic/L21	Perforations:	
Sample No:	1-9	Cylinder No:	1-9

IDENTIFICATION

Sample Nature	: Water
Date of Sampling	: 03/07/2002
Time Start/Finish	: 23:00 - 23:15
Sampling Point	: Water Line

FINAL TRANSPORTATION CONDITIONS

Sample Container Type / Volume	: 500ml Pyrex
Sample Volume	: 500mls
H2S Concentration	:
Liquid Gravity	:

COMMENTS

Sample Taken By: EXAL

Data and Flowrates (averaged) entered manually from 3rd Party systems.

Production Conditions supplied by Well Test Company

EXPRO

CASED HOLE SERVICES



ATMOSPHERIC SAMPLE

QAD 070
Rev. 6 Issued Jul 2000

Client:	OMV Australia	Well No:	Patricia-2
Test:	Completion	Rig:	Ocean Bounty
Field:	Vic/L21	Perforations:	
Sample No:	1-10	Cylinder No:	1-10

IDENTIFICATION

Sample Nature	: Water
Date of Sampling	: 03/07/2002
Time Start/Finish	: 23:00 - 23:15
Sampling Point	: Water Line

FINAL TRANSPORTATION CONDITIONS

Sample Container Type / Volume	: 4lt Steel Drum
Sample Volume	: 4 Litres
H2S Concentration	:
Liquid Gravity	:

COMMENTS

Sample Taken By: EXAL

Data and Flowrates (averaged) entered manually from 3rd Party systems.

Production Conditions supplied by Well Test Company

EXPRO

CASED HOLE SERVICES



ATMOSPHERIC SAMPLE

QAD 070
Rev. 6 Issued Jul 2000

Client:	OMV Australia	Well No:	Patricia-2
Test:	Completion	Rig:	Ocean Bounty
Field:	Vic/L21	Perforations:	
Sample No:	1-11	Cylinder No:	1-11

IDENTIFICATION

Sample Nature	: Water
Date of Sampling	: 04/07/2002
Time Start/Finish	: 01:00 - 01:15
Sampling Point	: Water Line

FINAL TRANSPORTATION CONDITIONS

Sample Container Type / Volume	: 500ml Pyrex
Sample Volume	: 500
H2S Concentration	:
Liquid Gravity	:

COMMENTS

Sample Taken By: EXAL

Data and Flowrates (averaged) entered manually from 3rd Party systems.

Production Conditions supplied by Well Test Company

EXPRO

CASED HOLE SERVICES



ATMOSPHERIC SAMPLE

QAD 070
Rev. 6 Issued Jul 2000

Client:	OMV Australia	Well No:	Patricia-2
Test:	Completion	Rig:	Ocean Bounty
Field:	Vic/L21	Perforations:	
Sample No:	1-12	Cylinder No:	1-12

IDENTIFICATION

Sample Nature	:	Water
Date of Sampling	:	04/07/2002
Time Start/Finish	:	01:00 - 01:15
Sampling Point	:	Water Line

FINAL TRANSPORTATION CONDITIONS

Sample Container Type / Volume	:	4lt Steel Drum
Sample Volume	:	4 Litres
H2S Concentration	:	
Liquid Gravity	:	

COMMENTS

Sample Taken By: EXAL

Data and Flowrates (averaged) entered manually from 3rd Party systems.

Production Conditions supplied by Well Test Company

EXPRO

CASED HOLE SERVICES



ATMOSPHERIC SAMPLE

QAD 070
Rev. 6 Issued Jul 2000

Client:	OMV Australia	Well No:	Patricia-2
Test:	Completion	Rig:	Ocean Bounty
Field:	Vic/L21	Perforations:	
Sample No:	1-13	Cylinder No:	1-13

IDENTIFICATION

Sample Nature	: Water
Date of Sampling	: 04/07/2002
Time Start/Finish	: 03:00 - 03:15
Sampling Point	: Water Line

FINAL TRANSPORTATION CONDITIONS

Sample Container Type / Volume	: 500ml Pyrex
Sample Volume	: 500mls
H2S Concentration	:
Liquid Gravity	:

COMMENTS

Sample Taken By: EXAL

Data and Flowrates (averaged) entered manually from 3rd Party systems.

Production Conditions supplied by Well Test Company

EXPRO

CASED HOLE SERVICES



ATMOSPHERIC SAMPLE

QAD 070
Rev. 6 Issued Jul 2000

Client:	OMV Australia	Well No:	Patricia-2
Test:	Completion	Rig:	Ocean Bounty
Field:	Vic/L21	Perforations:	
Sample No:	1-14	Cylinder No:	1-14

IDENTIFICATION

Sample Nature	: Water
Date of Sampling	: 04/07/2002
Time Start/Finish	: 03:00 - 03:15
Sampling Point	: Water Line

FINAL TRANSPORTATION CONDITIONS

Sample Container Type / Volume	: 4lt Steel Drum
Sample Volume	: 4 Litres
H2S Concentration	:
Liquid Gravity	:

COMMENTS

Sample Taken By: EXAL

Data and Flowrates (averaged) entered manually from 3rd Party systems.

Production Conditions supplied by Well Test Company

EXPRO

CASED HOLE SERVICES



ATMOSPHERIC SAMPLE

QAD 070
Rev. 6 Issued Jul 2000

Client:	OMV Australia	Well No:	Patricia-2
Test:	Completion	Rig:	Ocean Bounty
Field:	Vic/L21	Perforations:	
Sample No:	1-15	Cylinder No:	1-15

IDENTIFICATION

Sample Nature	: Water
Date of Sampling	: 04/07/2002
Time Start/Finish	: 05:00 - 05:15
Sampling Point	: Water Line

FINAL TRANSPORTATION CONDITIONS

Sample Container Type / Volume	: 500ml Pyrex
Sample Volume	: 500mls
H2S Concentration	:
Liquid Gravity	:

COMMENTS

Sample Taken By: EXAL

Data and Flowrates (averaged) entered manually from 3rd Party systems.

Production Conditions supplied by Well Test Company

EXPRO

CASED HOLE SERVICES



ATMOSPHERIC SAMPLE

QAD 070
Rev. 6 Issued Jul 2000

Client:	OMV Australia	Well No:	Patricia-2
Test:	Completion	Rig:	Ocean Bounty
Field:	Vic/L21	Perforations:	
Sample No:	1-16	Cylinder No:	1-16

IDENTIFICATION

Sample Nature	: Water
Date of Sampling	: 04/07/2002
Time Start/Finish	: 05:00 - 05:15
Sampling Point	: Water Line

FINAL TRANSPORTATION CONDITIONS

Sample Container Type / Volume	: 4lt Steel Drum
Sample Volume	: 4 Litres
H2S Concentration	:
Liquid Gravity	:

COMMENTS

Sample Taken By: EXAL

Data and Flowrates (averaged) entered manually from 3rd Party systems.

Production Conditions supplied by Well Test Company

EXPRO

CASED HOLE SERVICES



ATMOSPHERIC SAMPLE

QAD 070
Rev. 6 Issued Jul 2000

Client:	OMV Australia	Well No:	Patricia-2
Test:	Completion	Rig:	Ocean Bounty
Field:	Vic/L21	Perforations:	
Sample No:	1-17	Cylinder No:	1-17

IDENTIFICATION

Sample Nature	: Water
Date of Sampling	: 04/07/2002
Time Start/Finish	: 07:00 - 07:15
Sampling Point	: Water Line

FINAL TRANSPORTATION CONDITIONS

Sample Container Type / Volume	: 500ml Pyrex
Sample Volume	: 500mls
H2S Concentration	:
Liquid Gravity	:

COMMENTS

Sample Taken By: EXAL

Data and Flowrates (averaged) entered manually from 3rd Party systems.

Production Conditions supplied by Well Test Company

EXPRO

CASED HOLE SERVICES



ATMOSPHERIC SAMPLE

QAD 070
Rev. 6 Issued Jul 2000

Client:	OMV Australia	Well No:	Patricia-2
Test:	Completion	Rig:	Ocean Bounty
Field:	Vic/L21	Perforations:	
Sample No:	1-18	Cylinder No:	1-18

IDENTIFICATION

Sample Nature	: Water
Date of Sampling	: 04/07/2002
Time Start/Finish	: 07:00 - 07:15
Sampling Point	: Water Line

FINAL TRANSPORTATION CONDITIONS

Sample Container Type / Volume	: 4lt Steel Drum
Sample Volume	: 4 Litres
H2S Concentration	:
Liquid Gravity	:

COMMENTS

Sample Taken By: EXAL

Data and Flowrates (averaged) entered manually from 3rd Party systems.

Production Conditions supplied by Well Test Company

EXPRO

CASED HOLE SERVICES

SURFACE SAMPLE

QAD 066

Rev. 6 Issued Feb 2000

Client:	OMV Australia	Well No:	Patricia-2
Test:	Completion	Rig:	Ocean Bounty
Field:	Vic/L21	Perforations:	
Sample No:	1-19	Cylinder No:	2357-CI-F

IDENTIFICATION

Sample Nature	:	Sep Gas
Date of Sampling	:	04/07/2002
Time Start/Finish	:	17:30 - 17:45
Sampling Point	:	Sep Gas Line

FINAL TRANSPORTATION CONDITIONS

Sample Cylinder Type	:	20 Litre Luxfer
Volume of Cylinder	:	20 Litres
Sample Volume	:	20 Litres
Volume H2O removed for Gas Cap	:	n/a
Volume H2O left in Cylinder	:	n/a
Final Pressure	:	364psig
Final Temperature	:	37

SAMPLING CONDITIONS

Sampling Pressure	:	364psig
Sampling Temperature	:	37degF
Sampling Method	:	Evacuated Cylinder
Sampling Duration	:	15min(s)

COUPLED WITH SAMPLES

Sample No. 1-20	in Cylinder No. 3416-CI-F
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PRODUCTION CONDITIONS DURING SAMPLING

Bottom Hole Pressure	:		Gas prodn. rate st std. conditions	:	9.51MM/scf
Bottom Hole Temperature	:		Gas gravity (Air = 1)	:	0.582
at Depth	:		Gas line pressure	:	365psig
Date/Time	:		Gas line temperature	:	37DegF
Wellhead Pressure	:	942psig	Fpv (supercompressibility factor)	:	1.035
Wellhead Temperature	:	66DegF	Fb (basic orifice factor)	:	1039.5
Separator Pressure	:	365psig	Stock tank oil prodn. rate at std. conditions	:	n/a
Separator Temperature	:	37DegF	Corrected by (shrinkage tester or tank)	:	n/a
			Shrinkage factor used	:	n/a
			Separator oil production rate	:	n/a
			Meter factor used	:	n/a
Carbon Dioxide (CO2)	:	2mol%	Oil gravity at 60 degF	:	n/a
Hydrogen Sulphide (H2S)	:	0ppm	Oil line temperature	:	n/a
Base Sediment	:		Water production rate at separator conds.	:	0
& Water (BS&W)	:	0	Separator gas oil ratio (GOR)	:	n/a
			Separator condensate gas ratio (CGR)	:	n/a
			Stock tank gas oil ratio (GOR)	:	n/a
			Stock tank condensate gas ratio (CGR)	:	n/a
			Well producing through choke size	:	40/64"
			Time elapsed since stabilisation	:	1 hour
			Well Testing Company	:	EXPRO

STANDARD CONDITIONS

Pressure	:	14.73 psiA
Temperature	:	60 degF

COMMENTS

Sample taken by: EXAL

CASED HOLE SERVICES

SURFACE SAMPLE

QAD 066

Rev. 6 Issued Feb 2000

Client:	OMV Australia	Well No:	Patricia-2
Test:	Completion	Rig:	Ocean Bounty
Field:	Vic/L21	Perforations:	
Sample No:	1-20	Cylinder No:	3416-CI-F

IDENTIFICATION

Sample Nature	:	Sep Gas
Date of Sampling	:	04/07/2002
Time Start/Finish	:	17:45 - 18:00
Sampling Point	:	Sep Gas Line

FINAL TRANSPORTATION CONDITIONS

Sample Cylinder Type	:	20 Litre Luxfer
Volume of Cylinder	:	20 Litres
Sample Volume	:	20 Litres
Volume H2O removed for Gas Cap	:	n/a
Volume H2O left in Cylinder	:	n/a
Final Pressure	:	364psig
Final Temperature	:	37DegF

SAMPLING CONDITIONS

Sampling Pressure	:	364psig
Sampling Temperature	:	37DegF
Sampling Method	:	Evacuated Cylinder
Sampling Duration	:	15min(s)

COUPLED WITH SAMPLES

Sample No. 1-19	in Cylinder No. 2357-CI-F
-----------------	---------------------------

PRODUCTION CONDITIONS DURING SAMPLING

Bottom Hole Pressure	:		Gas prodn. rate st std. conditions	:	9.46MM/scf
Bottom Hole Temperature	:		Gas gravity (Air = 1)	:	0.584
at Depth	:		Gas line pressure	:	364psig
Date/Time	:		Gas line temperature	:	37DegF
Wellhead Pressure	:	941psig	Fpv (supercompressibility factor)	:	1.035
Wellhead Temperature	:	66DegF	Fb (basic orifice factor)	:	1039.5
Separator Pressure	:	364psig	Stock tank oil prodn. rate at std. conditions	:	n/a
Separator Temperature	:	37DegF	Corrected by (shrinkage tester or tank)	:	n/a
Carbon Dioxide (CO2)	:	2mol%	Shrinkage factor used	:	n/a
Hydrogen Sulphide (H2S)	:	0ppm	Separator oil production rate	:	n/a
Base Sediment	:		Meter factor used	:	n/a
& Water (BS&W)	:	0	Oil gravity at 60 degF	:	n/a
			Oil line temperature	:	n/a
			Water production rate at separator conds.	:	0
			Separator gas oil ratio (GOR)	:	n/a
			Separator condensate gas ratio (CGR)	:	n/a
			Stock tank gas oil ratio (GOR)	:	n/a
			Stock tank condensate gas ratio (CGR)	:	n/a
			Well producing through choke size	:	40
			Time elapsed since stabilisation	:	1.25 hours
			Well Testing Company	:	EXPRO

COMMENTS

Sample taken by: EXAL

Production Conditions supplied by Well Test Company

EXPRO

CASED HOLE SERVICES

SURFACE SAMPLE

QAD 066
Rev. 6 Issued Feb 2000

Client:	OMV Australia	Well No:	Patricia-2
Test:	Completion	Rig:	Ocean Bounty
Field:	Vic/L21	Perforations:	
Sample No:	1-21	Cylinder No:	0687-CI-F

IDENTIFICATION

Sample Nature	:	Sep Gas
Date of Sampling	:	04/07/2002
Time Start/Finish	:	23:00 - 23:15
Sampling Point	:	Sep Gas Line

FINAL TRANSPORTATION CONDITIONS

Sample Cylinder Type	:	20 Litre Luxfer
Volume of Cylinder	:	20 Litres
Sample Volume	:	20 Litres
Volume H2O removed for Gas Cap	:	n/a
Volume H2O left in Cylinder	:	n/a
Final Pressure	:	296psig
Final Temperature	:	48DegF

SAMPLING CONDITIONS

Sampling Pressure	:	295psig
Sampling Temperature	:	48DegF
Sampling Method	:	Evacuated Cylinder
Sampling Duration	:	15min(s)

COUPLED WITH SAMPLES

Sample No.	:	in Cylinder No.
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PRODUCTION CONDITIONS DURING SAMPLING

Bottom Hole Pressure	:		Gas prodn. rate st std. conditions	:	20.5MM/scf
Bottom Hole Temperature	:		Gas gravity (Air = 1)	:	0.586
at Depth	:		Gas line pressure	:	296psig
Date/Time	:		Gas line temperature	:	48DegF
Wellhead Pressure	:	802psig	Fpv (supercompressibility factor)	:	1.027
Wellhead Temperature	:	76DegF	Fb (basic orifice factor)	:	2276.6
Separator Pressure	:	296psig	Stock tank oil prodn. rate at std. conditions	:	n/a
Separator Temperature	:	48DegF	Corrected by (shrinkage tester or tank)	:	n/a
Carbon Dioxide (CO2)	:	1.5%vol	Shrinkage factor used	:	n/a
Hydrogen Sulphide (H2S)	:	0ppm	Separator oil production rate	:	n/a
Base Sediment	:		Meter factor used	:	n/a
& Water (BS&W)	:	0	Oil gravity at 60 degF	:	n/a
			Oil line temperature	:	n/a
			Water production rate at separator conds.	:	19b/d
			Separator gas oil ratio (GOR)	:	n/a
			Separator condensate gas ratio (CGR)	:	n/a
			Stock tank gas oil ratio (GOR)	:	n/a
			Stock tank condensate gas ratio (CGR)	:	n/a
			Well producing through choke size	:	64
			Time elapsed since stabilisation	:	5.75 Hours
			Well Testing Company	:	EXPRO

COMMENTS
Sample taken by: EXAL

Production Conditions supplied by Well Test Company
EXPRO

CASED HOLE SERVICES



ATMOSPHERIC SAMPLE

QAD 070
Rev. 6 Issued Jul 2000

Client:	OMV Australia	Well No:	Patricia-2
Test:	Completion	Rig:	Ocean Bounty
Field:	Vic/L21	Perforations:	
Sample No:	1-22	Cylinder No:	1-22

IDENTIFICATION

Sample Nature	: Water
Date of Sampling	: 04/07/2002
Time Start/Finish	: 23:00 - 23:15
Sampling Point	: Water Line

FINAL TRANSPORTATION CONDITIONS

Sample Container Type / Volume	: 500ml Pyrex
Sample Volume	: 500mls
H2S Concentration	: 0
Liquid Gravity	: 1.083

COMMENTS

Sample Taken By: EXAL

Production Conditions supplied by Well Test Company

EXPRO

CASED HOLE SERVICES



ATMOSPHERIC SAMPLE

QAD 070
Rev. 6 Issued Jul 2000

Client:	OMV Australia	Well No:	Patricia-2
Test:	Completion	Rig:	Ocean Bounty
Field:	Vic/L21	Perforations:	
Sample No:	1-23	Cylinder No:	1-23

IDENTIFICATION

Sample Nature	: Water
Date of Sampling	: 04/07/2002
Time Start/Finish	: 23:00 - 23:15
Sampling Point	: Water Line

FINAL TRANSPORTATION CONDITIONS

Sample Container Type / Volume	: 5lt Steel Drum
Sample Volume	: 5 Litres
H2S Concentration	: 0
Liquid Gravity	: 1.083

COMMENTS

Sample Taken By: EXAL

Production Conditions supplied by Well Test Company

EXPRO

CASED HOLE SERVICES



ATMOSPHERIC SAMPLE

QAD 070
Rev. 6 Issued Jul 2000

Client:	OMV Australia	Well No:	Patricia-2
Test:	Completion	Rig:	Ocean Bounty
Field:	Vic/L21	Perforations:	
Sample No:	1-24	Cylinder No:	1-24

IDENTIFICATION

Sample Nature	: Water
Date of Sampling	: 05/07/2002
Time Start/Finish	: 09:55
Sampling Point	: Water Line

FINAL TRANSPORTATION CONDITIONS

Sample Container Type / Volume	: 5lt Steel Drum
Sample Volume	: 500mls
H2S Concentration	: 0
Liquid Gravity	: 1.083

COMMENTS

Sample Taken By: EXAL

Production Conditions supplied by Well Test Company

EXPRO



DISK INFORMATION

Client : OMV Australia Pty Ltd. **Well No. :** Patricia-2
Test : Completion **Date :** 30/6 - 06/07/2002

PATRICIA2_EVENTS.TXT

A diary of events. In particular all information on events which affect the readings of the transducers is recorded, eg opening of valves, power shut-downs, bleeding of lines, etc.

WELLHEAD.TAB

Contains the raw data readings taken from sensors on the choke manifold and annulus throughout the complete test period

Column 1	: Date	dd/mm/yy
Column 2	: Time	hh:mm:ss
Column 3	: Up Choke Pressure	psia
Column 4	: Up Choke Temperature	degF
Column 5	: Down Choke Pressure	psig
Column 6	: Down Choke Temperature	degF
Column 7	: Annulus Pressure	psig

FINALRAWDATA.TAB

Contains the raw data readings taken from sensors on the choke manifold, annulus and separator throughout the complete test period.

Column 1	: Date	dd/mm/yy
Column 2	: Time	hr:min:sec
Column 3	: Choke size	/64th
Column 4	: Orifice	inches
Column 5	: Gas SG	fact
Column 6	: Oil SG	fact
Column 7	: Up Choke Pressure	psia
Column 8	: Up Choke Temperature	degF
Column 9	: Down Choke Pressure	psig
Column 10	: Down Choke Temperature	degF
Column 11	: Annulus Pressure	psig
Column 12	: Gas Pressure	psig
Column 13	: Gas Temperature	degF
Column 14	: Gas Differential	inHg
Column 15	: Oil Temperature	degF
Column 16	: Heater Pressure	psig
Column 17	: Heater Temperature	degF
Column 18	: Condensate Rate	bbl/d
Column 19	: Condensate Cumulative	Bbbl
Column 20	: Water Rate	bbl/d
Column 21	: Water Cumulative	Bbbl
Column 22	: Average Gas Rate	Mmscf/d
Column 23	: Gas Cumulative	Mmscf
Column 24	: Condensate Gas Ratio (CGR)	Bbbl/MMscf
Column 25	: Water Gas Ratio (WGR)	Bbbl/MMscf
Column 26	: Sand Impact Rate	l/sec
Column 27	: Sand Rate	gms/hr



DISK INFORMATION

Client : OMV Australia Pty Ltd. **Well No. :** Patricia-2
Test : Completion **Date :** 30/6 - 06/07/2002

GASCAL.TAB

Contains the oil calculation factors and manual inputs for main flow period.

Column 1	: Date	dd/mm/yy
Column 2	: Time	hr:min:sec
Column 3	: Orifice	inches
Column 4	: Gas Pressure	psig
Column 5	: Gas Temperature	degF
Column 6	: Gas Differential	inHg
Column 7	: CO2	%
Column 8	: H2S	%
Column 9	: Gas SG	fact
Column 10	: Gas Fb	fact
Column 11	: Gas Fr	fact
Column 12	: Gas Y	fact
Column 13	: Gas Fpb	fact
Column 14	: Gas Ftb	fact
Column 15	: Gas Ftf	fact
Column 16	: Gas Fg	fact
Column 17	: Gas Fpv	fact
Column 18	: GasC	fact
Column 19	: Gas Pf	fact
Column 20	: Average Gas Rate	MMcf/d
Column 21	: Gas Cumulative	MMcf



DISK INFORMATION

Client : OMV Australia Pty Ltd. **Well No. :** Patricia-2
Test : Completion **Date :** 30/6 - 06/07/2002

File Name	Start Date/time	End Date/time	Description	Compression Type
PATRICIA2_EVENTS.TXT			Sequence of events	0
WELLHEAD.TAB			All upstream / downstream choke data and annulus	1
FINALRAWDATA.TAB			All choke, annulus and separator data	1
GASCALCS.TAB			Gas calculation factors	1

Compression Type

0 = None
1 = Self Extracting
2 = Zip (PKUNZIP program supplied. YES/NO)

Self Extracting Tip

Type @ DOS prompt **A:\ARCHIVE C: -d**
where
A:\ARCHIVE is name of .EXE file on floppy in A: drive
C: is destination drive
-d restores all sub-directories automatically.

ZIP Tip

Type @ DOS prompt **C:**
where
C: is destination drive
Type @ DOS prompt **CD**
where
CD moves system to root directory
Type @ DOS prompt **A:\PKUNZIP -d A:\ARCHIVE**
where
A:\PKUNZIP is name of .EXE file on floppy in A: drive
-d restores all sub-directories automatically
A:\ARCHIVE is name of .ZIP file on floppy in A: drive.



OMV Australia



CONFIDENTIAL

Date:	20 June 2002	Rig:	Ocean Bounty
Report Number:	1	Bit Diameter:	17 1/2"
Report Period:	00:00 - 24:00 Hours	Last Casing:	30" x 20" @ 111.0 m MDRT
Spud Date:	20/Jun/2002 16:00 Hours	FIT:	
Days From Spud:	0.3	Mud Weight:	1.04 SG
Depth @ 2400 Hrs:	111.5 m MDRT	ECD:	1.04SG
	111.5 m TVDRT	Mud Type:	Seawater/Gel Sweeps
Lag Depth:	Returns to Seafloor	Mud Chlorides:	
Last Depth:	0 m MDRT	Est. Pore Pressure:	
Progress:	112.0 m	DXC:	
Water Depth:	52.5 m	Last Survey:	111.5 m MDRT (Totco)
RT:	25.0 m	Deviation:	Inc. 0.25 °

OPERATIONS SUMMARY

24 HOUR SUMMARY: Moved rig to Patricia-2 location. Set anchors and positioned rig. Spudded well at 1600hrs, 20/6/02. Drilled 26"/36" hole from 77.5 to 111.5m. Ran and cemented 30" casing.

NEXT 24 HOURS: Drill 17 1/2" section. Run and cement 13 3/8" casing.

CURRENT OPERATION @ 07:00 HRS (21/06/2002) : Drilling 17 1/2" hole at 255m MDRT.

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 77.5 to 111.5 m MDRT
ROP (Range): 10 to 170 m/hr
Av. ROP: 55 m/hr

Returns to Seafloor

GAS SUMMARY

No Gas Data

MUDLOGGING EQUIPMENT / PERSONNEL

All Gas equipment working and calibrated. Waiting on new torque sensor. All personnel on board.

WELLSITE GEOLOGISTS

Peter Boothby Ross Tolliday

CONFIDENTIAL

Date:	21 June 2002	Rig:	Ocean Bounty
Report Number:	2	Bit Diameter:	17 ½
Report Period:	00:00 - 24:00 Hours	Last Casing:	13 3/8" @ 326.0 m MDRT
Spud Date:	20/Jun/2002 16:00 Hours	FIT:	
Days From Spud:	1.3	Mud Weight:	1.04 SG
Depth @ 2400 Hrs:	334.0 m MDRT	ECD:	1.04 SG
	332.4 m TVDRT	Mud Type:	Seawater/Gel Sweeps
Lag Depth:	Returns to Seafloor	Mud Chlorides:	
Last Depth:	111.5 m MDRT	Est. Pore Pressure:	
Progress:	222.0 m	DXC:	
Water Depth:	52.5 m	Last Survey:	314.8 m MDRT
RT:	25.0 m	Deviation:	Inc. 11.75 ° Az. 244.06 °

OPERATIONS SUMMARY

24 HOUR SUMMARY: Made up and ran in hole with 17 ½ BHA. Drilled cement and shoe. Drilled from 111.5m to 334m (section TD). Pulled out of hole. Performed wiper trip. Ran and cemented 13 3/8' casing.

NEXT 24 HOURS: Run and land Xmas tree. Run BOP and marine riser.

CURRENT OPERATION @ 07:00 HRS (22/06/2002) : Running Xmas tree.

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 111.5 to 190 m MDRT
ROP (Range): 12 to 260 m/hr
Av. ROP: 85 m/hr

Returns to Seafloor

INTERVAL: 190 to 334 m MDRT
ROP (Range): 20 to 120 m/hr
Av. ROP: 55 m/hr

Returns to Seafloor

GAS SUMMARY

No Gas Data

MUDLOGGING EQUIPMENT / PERSONNEL

All Gas equipment working and calibrated.

WELLSITE GEOLOGISTS

Peter Boothby / Ross Tolliday

CONFIDENTIAL

Date:	22 June 2002	Rig:	Ocean Bounty
Report Number:	3	Bit Diameter:	12 ¼"
Report Period:	00:00 - 24:00 Hours	Last Casing:	13 3/8" @ 326.0 m MDRT
Spud Date:	20/Jun/2002 16:00 Hours	FIT:	
Days From Spud:	2.3	Mud Weight:	1.04 SG
Depth @ 2400 Hrs:	334.0 m MDRT	ECD:	
	332.4 m TVDRT	Mud Type:	Seawater/Gel Sweeps
Lag Depth:	Returns to seafloor	Mud Chlorides:	
Last Depth:	334.0 m MDRT	Est. Pore Pressure:	
Progress:	0 m	DXC:	
Water Depth:	52.5 m	Last Survey:	314.8 m MDRT
RT:	25.0 m	Deviation:	Inc. 11.75 ° Az. 244.06 °

OPERATIONS SUMMARY

24 HOUR SUMMARY: Rigged up and ran subsea Xmas tree. Rigged up and ran riser and BOPs.

NEXT 24 HOURS: Complete running of BOPs. RIH with 12 1/4" BHA. Drill cement and shoetrack. Drill 3m and perform FIT. Drill ahead.

CURRENT OPERATION @ 07:00 HRS (23/06/2002) : Making up 12 ¼ BHA

GEOLOGICAL SUMMARY

No Drilling

MUDLOGGING EQUIPMENT / PERSONNEL

All Gas equipment working and calibrated.

WELLSITE GEOLOGISTS

Peter Boothby Ross Tolliday

CONFIDENTIAL

Date:	23 June 2002	Rig:	Ocean Bounty
Report Number:	4	Bit Diameter:	12.25 "
Report Period:	00:00 - 24:00 Hours	Last Casing:	13 3/8" @ 326.0 m MDRT
Spud Date:	20/Jun/2002 16:00 Hours	FIT:	1.73 SG EMW @ 334.0m MDRT
Days From Spud:	3.3	Mud Weight:	1.06 SG
Depth @ 2400 Hrs:	404.0 m MDRT	ECD:	1.07 SG
	400.8 m TVDRT	Mud Type:	PHPA/KCl/Glycol
Lag Depth:	400.0 m MDRT	Mud Chlorides:	42000 mg/l
Last Depth:	334.0 m MDRT	Est. Pore Pressure:	1.03 SG
Progress:	70.0 m	DXC:	Normal
Water Depth:	52.5 m	Last Survey:	383.7 m MDRT
RT:	25.0 m	Deviation:	Inc. 13.44 ° Az. 229.93 °

OPERATIONS SUMMARY

24 HOUR SUMMARY: Completed running BOPs and riser. Commenced making up 12 1/4" BHA. RIH and drilled out cement and shoe track. Drilled 3m new formation to 337m. Performed leak off test to EMW of 1.73 SG. Drilled with sliding to 404m.

NEXT 24 HOURS: Drill with sliding to section TD. Commence running 9 5/8" casing.

CURRENT OPERATION @ 07:00 HRS (24/06/2002) : Drilling and sliding ahead at 507 mMDRT (499.7mTVDRT).

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 334 to 400 m MDRT
ROP (Range): 5 to 80 m/hr
Av. ROP: 15 m/hr

Sequence of interbedded ARGILLACEOUS CALCILUTITE and ARGILLACOUS CALCISILTITE

ARGILLACEOUS CALCILUTITE: (40 - 100%) white to very light grey, light bluish grey, light olive grey, very soft to soft, amorphous, sticky in part, 10-15% fossil fragments and forams (coral debris, bryozoa, spicules, shell fragments, forams), 10-25% siliceous clay content, 10 to 20% calcisilt, grades to Argillaceous Calcisiltite in part, trace fine dark green glauconite.

ARGILLACEOUS CALCISILTITE: (0 - 60%) white to very light grey, light bluish grey, light olive grey, very soft to soft, amorphous, 10-15% fossil fragments and forams (coral debris, bryozoa, spicules, shell fragments, forams), 15-30% siliceous clay content, 5 to 10% micrite, trace to 5% very fine to fine calcite grains, grades to Argillaceous Calcilutite in part, trace fine dark green glauconite.

GAS SUMMARY

Background Gas

INTERVAL	Total Gas	C1	C2	C3	iC4	nC4	C5
mMDRT	(%)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
334 - 400	0	0	0	0	0	0	0



CALCIMETRY

Interval (m MDRT)	Calcite Range (%)	Dolomite Range (%)
334 - 400	55 - 84 %	0

Calcimetry being conducted at 5 to 10m intervals

FORMATION PRESSURE ESTIMATION

Gas is very low and cuttings are normally shaped. These and all other indications suggest the formation is normally pressured.

SAMPLE QUALITY

Sampling conducted at 5 to 10m intervals depending on ROP.

MUDLOGGING EQUIPMENT / PERSONNEL

All Gas equipment working and calibrated.

MWD

Sensor distances behind bit

Resistivity(EWR)	11.83m
Gamma Ray(DGR)	14.75m
Survey(DM)	18.33m

WELLSITE GEOLOGISTS

Peter Boothby Ross Tolliday

CONFIDENTIAL

Date:	24 June 2002	Rig:	Ocean Bounty
Report Number:	5	Bit Diameter:	12 ¼"
Report Period:	00:00 - 24:00 Hours	Last Casing:	13 3/8" @ 326.0 m MDRT
Spud Date:	20/Jun/2002 16:00 Hours	FIT:	1.73 SG EMW @ 334.0m MDRT
Days From Spud:	4.3	Mud Weight:	1.08 SG
Depth @ 2400 Hrs:	708.0 m MDRT	ECD:	1.11 SG
	646.6 m TVDRT	Mud Type:	PHPA/KCl/Glycol
Lag Depth:	700.0 m MDRT	Mud Chlorides:	35000 mg/l
Last Depth:	404.0 m MDRT	Est. Pore Pressure:	1.03 SG
Progress:	304.0 m	DXC:	Normal
Water Depth:	52.5 m	Last Survey:	691.3 m MDRT
RT:	25.0 m	Deviation:	Inc. 56.22 ° Az. 230.56 °

OPERATIONS SUMMARY

24 HOUR SUMMARY: Drilled (sliding and rotating) from 404 to 708m MDRT.

NEXT 24 HOURS: Drill to section TD. Run and cement 9 5/8" casing.

CURRENT OPERATION @ 07:00 HRS (25/06/2002) : Drill ahead at 850m.

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 400 to 490 m MDRT
ROP (Range): 6 to 12 m/hr
Av. ROP: 19 m/hr

Interbedded ARGILLACEOUS CALCISILTITE and CALCILUTITE grading to ARGILLACEOUS CALCILUTITE

ARGILLACEOUS CALCISILTITE (50-90%) : light to light medium grey, light to medium olive grey, trace orange, soft, dispersive in parts, firm in parts amorphous, 5-10% fossil fragments (coral debris, bryozoa, spicules, shell fragments, forams), 20-35% siliceous clay content, recrystallised calcite in parts, 5 to 10% fine, clear to orange calcite grains, trace very fine dark green glauconite, trace soft disseminated pyrite, grades to Argillaceous Calcilutite.

CALCILUTITE (10-50%) : very light to light medium grey, light to medium olive grey, soft, dispersive in parts, amorphous, trace to 5% fossil fragments and forams, 15-20% siliceous clay content, 5 to 10% calcisilt, trace very fine dark green glauconite, grades to Argillaceous Calcilutite.

INTERVAL: 490 to 520 m MDRT
ROP (Range): 9 to 65 m/hr
Av. ROP: 16 m/hr

ARGILLACEOUS CALCISILTITE with interbedded MARL

ARGILLACEOUS CALCISILTITE (60-90%) : light to light medium grey, light to medium olive grey, trace dark grey, soft to occasionally firm, dispersive in parts, firm in parts amorphous, 5% fossil fragments, 20-35% siliceous clay content, 5 to 10% fine, clear to orange calcite & recrystallised grains, trace very fine dark green glauconite, trace soft disseminated pyrite, grades to Argillaceous Calcilutite.

MARL (10-40%) : very light to light medium grey, light to medium olive grey, very soft, dispersive in parts, amorphous, 5% fossil fragments and forams, 30-40% siliceous clay content, trace to 5% calcisilt, trace very

fine dark green glauconite, grades to Argillaceous Calcilutite.

INTERVAL: 520 to 555 m MDRT
ROP (Range): 5 to 34 m/hr
Av. ROP: 14 m/hr

Predominantly a CALCISILTITE sequence with interbeds of CALCARENITE and MARL

CALCISILTITE: (40 - 70%) very light to light medium grey, light to medium olive grey, soft to occasionally firm, amorphous, 5% fossil fragments, 10-15% siliceous clay content, 10 to 20% fine, clear to orange calcite & recrystallised grains, trace very fine dark green glauconite, trace soft disseminated pyrite, grades to Calcarenite.

MARL: (20 - 40%) very light to light grey, light to medium olive grey, very soft, dispersive in parts, amorphous, 5% fossil fragments and forams, 30-40% siliceous clay content, trace to 5% calcisilt, trace very fine dark green glauconite, grades to Argillaceous Calcilutite.

CALCARENITE: (0 - 20%) very light to light medium grey, white in parts, soft to firm, amorphous, silt to very fine clear to very light grey calcite grains, 5% fossil fragments, 10-15% siliceous clay content, trace very fine dark green glauconite, trace soft disseminated pyrite.

INTERVAL: 555 to 590 m MDRT
ROP (Range): 4 to 28 m/hr
Av. ROP: 11 m/hr

An ARGILLACEOUS CALCISILTITE sequence with interbedded MARL and minor CALCARENITE.

ARGILLACEOUS CALCISILTITE: (50 - 75%) very light to light medium grey, light to medium olive grey, soft to occasionally firm, 5% fossil fragments, 10-25% siliceous clay content, 10 to 20% fine, clear to orange calcite & recrystallised grains, trace very fine dark green glauconite, trace soft disseminated pyrite, grades to Calcarenite.

MARL: (20 - 35%) very light to light grey, light to medium olive grey, very soft, dispersive in parts, amorphous, 5% fossil fragments and forams, 30-40% siliceous clay content, trace to 5% calcisilt, trace very fine dark green glauconite, grades to Argillaceous Calcilutite

CALCARENITE: (5 - 30%) very light to light medium grey, white in parts, soft to firm, silt to fine clear to very light grey calcite grains, 5% fossil fragments, 10-15% siliceous clay content, trace very fine dark green glauconite, trace soft disseminated pyrite.

INTERVAL: 590 to 700 m MDRT
ROP (Range): 2 to 80 m/hr
Av. ROP: 30 m/hr

Sequence of ARGILLACEOUS CALCISILTITES interbedded with CALCARENITE and MARL.

ARGILLACEOUS CALCISILTITE: (45 - 70%) very light to light medium grey, light to medium olive grey, soft to occasionally firm, trace to 5% fossil fragments, 10-25% siliceous clay content, 10 to 20% fine grained calcite & recrystallised grains, trace very fine dark green glauconite, trace disseminated pyrite, grades to Calcarenite.

CALCARENITE: (5 - 30%) very light to light medium grey, white in parts, soft to firm, silt to fine clear to very light grey calcite grains, 5% fossil fragments, 5-10% siliceous clay content, trace very fine dark green glauconite, trace soft disseminated pyrite.

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MARL: (10 - 45%) white to very light to light grey, light to medium olive grey, very soft, dispersive in parts, amorphous, trace to 5% fossil fragments and forams, 20-30% siliceous clay content, trace to 5% calcisilt, trace very fine dark green glauconite, trace disseminated and rare nodular pyrite, commonly grades to Argillaceous Calcilutite

GAS SUMMARY

Background Gas

INTERVAL	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)
400 - 490	0.01	67	0	0	0	0	0
490 - 520	0.01	112	0	0	0	0	0
520 - 555	0.02	172	0	0	0	0	0
555 - 590	0.03	277	0	0	0	0	0
590 - 700	0.08	650	0	0	0	0	0

CALCIMETRY

Interval (m MDRT)	Calcite Range (%)	Dolomite Range (%)
400 - 490	56 - 89 %	0%
490 - 520	49 - 66 %	0%
520 - 555	53 - 78 %	0%
555 - 590	56 - 82 %	0 - 4 %
590 - 700	46 - 74 %	0 - 4 %

FORMATION PRESSURE ESTIMATION

Background gas is relatively low. There is no connection gas. Cuttings are normally shaped. There is a slight deviation in the Dxc between 710 to 725m. A change in lithology also occurred at this interval and this Dxc change may be attributed to the formation change. It is interpreted that the formation is normally pressured.

SAMPLE QUALITY

Sampling conducted at 5m samples where ROP permits.

MUDLOGGING EQUIPMENT / PERSONNEL

All Gas equipment working and calibrated.

MWD

Sensor distances behind bit

Resistivity(EWR)	11.83m
Gamma Ray(DGR)	14.75m
Survey(DM)	18.33m

WELLSITE GEOLOGISTS

Peter Boothby Ross Tolliday

CONFIDENTIAL

Date:	25 June 2002	Rig:	Ocean Bounty
Report Number:	6	Bit Diameter:	12 1/4"
Report Period:	00:00 - 24:00 Hours	Last Casing:	13 3/8" @ 327.1 m MDRT
Spud Date:	20/Jun/2002 16:00 Hours	FIT:	1.73 SG EMW @ 334.0m MDRT
Days From Spud:	5.3	Mud Weight:	1.10 SG
Depth @ 2400 Hrs:	884.0 m MDRT	ECD:	1.14 SG
	701.3 m TVDRT	Mud Type:	PHPA/KCl/Glycol
Lag Depth:	884.0 m MDRT	Mud Chlorides:	45000 mg/l
Last Depth:	708.0 m MDRT	Est. Pore Pressure:	1.03 SG
Progress:	176.0 m	DXC:	Normal
Water Depth:	52.5 m	Last Survey:	862.9 m MDRT
RT:	25.0 m	Deviation:	Inc. 85.19 ° Az. 229.80 °

OPERATIONS SUMMARY

24 HOUR SUMMARY: Continued to drill (sliding and rotating) 12 1/4" hole from 708 to 884m. POOH. Conducted wiper trip. Circulated hole clean. POOH and rig up to run 9 5/8" casing.

NEXT 24 HOURS: Run and cement 9 5/8" casing. Perform pressure tests. Make up 8 1/2" BHA. RIH and drill to Total Depth.

CURRENT OPERATION @ 07:00 HRS (26/06/2002) : Cemented casing. Preparing to run seal assembly.

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 700 to 721 m MDRT
ROP (Range): 11 to 43 m/hr
Av. ROP: 29 m/hr

MARL and minor interbedded ARGILLACEOUS CALCISILTITE

MARL: (80%) medium grey, light to medium olive grey, minor dark grey, soft, rarely dispersive, amorphous to blocky, trace to 5% fossil fragments and forams, 20-35% siliceous clay content, trace to 5% calcisilt, trace very fine dark green glauconite, trace disseminated and nodular pyrite. Grades to Calcareous Claystone.

ARGILLACEOUS CALCISILTITE: (20%) very light to medium grey, light to medium olive grey, soft to occasionally firm, blocky, trace to 5% fossil fragments, 15-25% siliceous clay content, 10 to 15% fine grained calcite & recrystallised grains, trace very fine dark green glauconite, trace disseminated and nodular pyrite, grades to Calcarenite.

INTERVAL: 721 to 770 m MDRT
ROP (Range): 12 to 57 m/hr
Av. ROP: 31 m/hr

MARL with interbedded ARGILLACEOUS CALCISILTITE

MARL: (40-90%) light grey, light to medium olive grey, minor dark grey, soft, amorphous to blocky, 5-10% fossil fragments and forams, 20-40% siliceous clay content, trace to 5% calcisilt, 1-5% fine to medium dark green glauconite, trace disseminated and nodular pyrite. Grades to Calcareous Claystone.

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ARGILLACEOUS CALCISILTITE: (10-60%) very light to medium grey, light to medium olive grey, soft to occasionally firm, blocky, trace to 5% fossil fragments, 15-25% siliceous clay content, 10 to 15% fine grained calcite & recrystallised grains, trace very fine dark green glauconite, trace disseminated and nodular pyrite, grades to Calcarenite.

INTERVAL: 770 to 819 m MDRT
ROP (Range): 10 to 103 m/hr
Av. ROP: 40 m/hr

Interbedded CALCAREOUS CLAYSTONE, MARL and GREENSAND with minor ARGILLACEOUS CALCISILTITE

CALCAREOUS CLAYSTONE (40-70%) : light to medium greyish brown, light grey, light brownish yellow in parts, soft , amorphous to blocky, 15-25% calcareous content, 0-5% calcisilt, 1-10% fine to medium dark green glauconite, trace to 5% siderite(?) nodules.

MARL (10 - 60%): light grey, light to medium olive grey, minor dark grey, soft, amorphous to blocky, 5% fossil fragments and forams, 20-35% siliceous clay content, trace to 5% calcisilt, 1-3% fine to medium dark green glauconite, trace disseminated and nodular pyrite. Grades to Calcareous Claystone.

GLAUCONITIC SANDSTONE(GREENSAND): (0 - 30%) medium to very dark green, firm, soft in parts, very fine to medium glauconite, sub angular to sub rounded. Increasing towards base of interval.

ARGILLACEOUS CALCISILTITE: (0 - 10%) very light to medium grey, light to medium olive grey, soft to occasionally firm, blocky, trace to 5% fossil fragments, 15-25% siliceous clay content, 10 to 15% fine grained calcite & recrystallised grains, trace very fine dark green glauconite, trace disseminated and nodular pyrite, grades to Calcarenite

INTERVAL: 819 to 885 m MDRT
ROP (Range): 11 to 120 m/hr
Av. ROP: 40 m/hr

SILTY SANDSTONE with minor CALCAREOUS CLAYSTONE

SILTY SANDSTONE: (50 - 95%) light to dark yellowish brown, loose and friable, minor firm, clear to translucent quartz grains, very fine to fine , poorly to moderately sorted, sub angular to sub rounded, 15-25% quartz silt, 5-15% argillaceous content, 1-3% glauconite, trace -1% mica, trace to 5% siderite nodules, trace multicoloured lithics, fair to good inferred porosity, no fluorescence.

CALCAREOUS CLAYSTONE: (5 - 50%) light to medium greyish brown, light grey, light brownish yellow, soft, firm in parts, amorphous to blocky, 10-25% calcareous content, 5-10% calcisilt, 5-15% fine to medium dark green glauconite. Grades to Claystone.

HYDROCARBON FLUORESCENCE

No Fluorescence

GAS SUMMARY

OMV Australia
Background Gas

INTERVAL	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)
700 - 721	0.12	1084	0	0	0	0	0
721 - 770	0.12	1068	0	0	0	0	0
770 - 819	0.19	1640	0	0	0	0	0
819 - 884	4.1	38267	0	0	0	0	0

Gas Peak

INTERVAL	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)
842 - 842	12.5	99471	0	0	0	0	0
858 - 858	5.13	48253	0	0	0	0	0
871 - 871	10.65	92381	0	0	0	0	0

CALCIMETRY

Interval (m MDRT)	Calcite Range (%)	Dolomite Range (%)
700 - 721	44 - 46 %	0%
721 - 770	44 - 64 %	0%
770 - 819	28 - 35 %	0%
819 - 884	2 - 8 %	0%

FORMATION PRESSURE ESTIMATION

There are no indications of overpressure.

SAMPLE QUALITY

Sampling conducted at 5m samples where ROP permits.

MUDLOGGING EQUIPMENT / PERSONNEL

All Gas equipment working and calibrated.

MWD

Sensor distances behind bit

Resistivity(EWR) 11.83m
 Gamma Ray(DGR) 14.75m
 Survey(DM) 18.33m

WELLSITE GEOLOGISTS

Peter Boothby Ross Tolliday

CONFIDENTIAL

Date:	26 June 2002	Rig:	Ocean Bounty
Report Number:	7	Bit Diameter:	8 1/2"
Report Period:	00:00 - 24:00 Hours	Last Casing:	9-5/8" @ 872.4 m MDRT
Spud Date:	20/Jun/2002 16:00 Hours	FIT:	1.4 SG EMW @ 872.4 m MDRT
Days From Spud:	6.3	Mud Weight:	1.07 SG
Depth @ 2400 Hrs:	884.0 m MDRT	ECD:	
	701.3 m TVDRT	Mud Type:	FLO-PRO/KCI
Lag Depth:	884.0 m MDRT	Mud Chlorides:	32000 mg/l
Last Depth:	884.0 m MDRT	Est. Pore Pressure:	1.03 SG
Progress:	0 m	DXC:	Normal
Water Depth:	52.5 m	Last Survey:	862.9 m MDRT
RT:	25.0 m	Deviation:	Inc. 85.19 ° Az. 229.80 °

OPERATIONS SUMMARY

24 HOUR SUMMARY: Ran and cemented 9 5/8" casing. Tested seal assembly and BOPs. Made up 8 1/2" BHA and RIH. Tagged TOC at 848m. Commenced drilling shoe track.

NEXT 24 HOURS: Drill and slide to Total Depth.

CURRENT OPERATION @ 07:00 HRS (27/06/2002) : Drilling and sliding at 945m MDRT.

GEOLOGICAL SUMMARY

LITHOLOGY

No new drilling

MUDLOGGING EQUIPMENT / PERSONNEL

All Gas equipment working and calibrated.

MWD

Sensor distances behind bit

Survey (DM)	9.07m
Gamma Ray(DGR)	11.69m
Density (SLD)	14.89m
Resistivity(EWR)	17.69m
Porosity (CNP)	20.65m

WELLSITE GEOLOGISTS

Peter Boothby Ross Tolliday

CONFIDENTIAL

Date:	27 June 2002	Rig:	Ocean Bounty
Report Number:	8	Bit Diameter:	8 1/2"
Report Period:	00:00 - 24:00 Hours	Last Casing:	9-5/8" @ 872.4 m MDRT
Spud Date:	20/Jun/2002 16:00 Hours	FIT:	1.4 SG EMW @ 872.0m MDRT
Days From Spud:	7.3	Mud Weight:	1.12 SG
Depth @ 2400 Hrs:	1365.0 m MDRT	ECD:	1.28 SG
	701.5 m TVDRT	Mud Type:	FLO-PRO/KCI-POLYMER
Lag Depth:	1385.0 m MDRT	Mud Chlorides:	72000 mg/l
Last Depth:	884.0 m MDRT	Est. Pore Pressure:	1.03 SG
Progress:	481.0 m	DXC:	Normal
Water Depth:	52.5 m	Last Survey:	1368.2 m MDRT
RT:	25.0 m	Deviation:	Inc. 90.46 ° Az. 234.02 °

OPERATIONS SUMMARY

24 HOUR SUMMARY: Continued to drill shoe track. Drilled 3m of new formation from 884 to 887m. Performed FIT to an EMW of 1.4 SG. Drilled (rotating and sliding) from 887 to 1365m (midnight depth).

NEXT 24 HOURS: Drilled from 1365 to total depth of 1385m MDRT (701m TVDRT). Reached TD at 0100hrs, 28/06/02. Circulate. Perform wiper trip. Circulate hole clean. Flow check. Pump clean out pills. POOH and run sand screens.

CURRENT OPERATION @ 07:00 HRS (28/06/2002) : POOH to shoe

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 885 to 960 m MDRT
ROP (Range): 3 to 80 m/hr
Av. ROP: 25 m/hr

Massive SILTY SANDSTONE

SILTY SANDSTONE: (100%) light to dark yellowish brown, greyish brown, loose and friable to hard cemented (siderite?) aggregates, clear to translucent quartz grains, very fine to fine, trace medium, poorly to moderately sorted, sub angular to sub rounded, 15-30% quartz silt, 5-15% argillaceous content, trace -2% glauconite, trace -1% mica, trace to 3% siderite nodules, trace multicoloured lithics, nil to trace forams, fair to very good inferred porosity, no fluorescence.

INTERVAL: 960 to 1060 m MDRT
ROP (Range): 3 to 100 m/hr
Av. ROP: 40 m/hr

SILTY SANDSTONE grading to SANDSTONE

SILTY SANDSTONE: (100%) light to dark yellowish brown, greyish brown, loose and friable to rare hard cemented (siderite?) aggregates, clear to translucent quartz grains, very fine to fine, trace medium, poorly to moderately sorted, sub angular to sub rounded, 15-25% quartz silt, 5% argillaceous content, tr-1% glauconite, trace -1% mica, trace siderite nodules, trace multicoloured lithics, nil to trace forams, fair to good inferred porosity, no fluorescence. Grades to SANDSTONE

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INTERVAL: 1060 to 1180 m MDRT
ROP (Range): 8 to 100 m/hr
Av. ROP: 50 m/hr

Massive ARGILLACEOUS and SILTY SANDSTONE

ARGILLACEOUS / SILTY SANDSTONE (100%): light to dark yellowish brown, medium greyish brown, 5-10% friable to hard cemented siderite aggregates, clear to translucent quartz grains, very fine to fine, trace medium, poorly to moderately sorted, angular to sub rounded, 20-30% quartz silt, 15-25% argillaceous content, trace - 1% glauconite, trace - 1% mica, trace multicoloured lithics, trace nodular pyrite, nil to trace forams, fair inferred porosity, no fluorescence.

INTERVAL: 1180 to 1290 m MDRT
ROP (Range): 5 to 120 m/hr
Av. ROP: 45 m/hr

SILTY SANDSTONE grading to SIDERITIC SANDSTONE (Silty) with proximity to the entry and exit to the Sub Grid Unit 4.

SILTY SANDSTONE: (80%) light to dark yellowish brown, medium greyish brown, dominantly loose and friable, trace hard cemented (siderite?) aggregates, clear to translucent quartz grains, very fine to fine, moderately sorted, angular to sub rounded, 15-20% quartz silt, 10% argillaceous content (suspect clay content being dispersed into mud system), trace-1% glauconite, trace -2% mica, trace to 2% siderite nodules, trace multicoloured lithics, trace nodular pyrite, nil to trace forams, fair to good inferred porosity, no fluorescence.

SIDERITIC / ARGILLACEOUS SANDSTONE: (20%) light to commonly dark yellowish brown, dark greyish brown, dominantly loose and friable, common hard cemented (siderite?) aggregates, clear to translucent quartz grains, very fine to fine, rare medium, poor to moderately sorted, angular to sub rounded, 15-20% quartz silt, 15-30% argillaceous content (suspect clay content being dispersed into mud system), trace-1% glauconite, trace -1% mica, 15-20% siderite nodules, trace multicoloured lithics, trace nodular pyrite, nil to trace forams, fair inferred porosity, no fluorescence.

INTERVAL: 1290 to 1385 m MDRT
ROP (Range): 4 to 75 m/hr
Av. ROP: 25 m/hr

Massive SANDSTONE grading to ARGILLACEOUS SANDSTONE

SANDSTONE: (70%) light to medium yellowish brown, medium greyish brown, dominantly loose and friable, clear to translucent quartz grains, very fine to fine, moderately sorted, angular to sub rounded, 10-15% quartz silt, 10% argillaceous content (suspect clay content being dispersed into mud system), trace-1% glauconite, trace -2% mica, trace siderite nodules, trace multicoloured lithics, trace nodular pyrite, nil to trace forams, good inferred porosity, no fluorescence. Grades to Argillaceous Sandstone

ARGILLACEOUS SANDSTONE: (30%) light to medium yellowish brown, medium greyish brown, dominantly loose and friable, clear to translucent quartz grains, very fine to fine, moderately sorted, angular to sub rounded, 10-15% quartz silt, 15-30% argillaceous content (suspect clay content being dispersed into mud system), trace-1% glauconite, trace -2% mica, trace to 5% dark yellowish brown siderite nodules, trace multicoloured lithics, trace nodular pyrite, nil to trace forams, fair to good inferred porosity, no fluorescence.

HYDROCARBON FLUORESCENCE

No Fluorescence

OMV Australia

GAS SUMMARY

Background Gas

INTERVAL	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)
885 - 960	2.25	17620	0	0	0	0	0
960 - 1060	3.68	26925	0	0	0	0	0
1060 - 1180	3.28	22200	0	0	0	0	0
1290 - 1385	2.6	19000	0	0	0	0	0

Gas Peak

INTERVAL	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)
950	4.16	31930	0	0	0	0	0
980	5.7	41970	0	0	0	0	0
1000	7.17	53680	0	0	0	0	0
1032	5.19	40350	0	0	0	0	0
1108	5.97	44450	0	0	0	0	0
1158	4.6	33950	0	0	0	0	0
1193	4.24	31980	0	0	0	0	0
1206	4.63	34800	0	0	0	0	0
1256	7.95	60000	0	0	0	0	0
1285	7.1	52000					
1374	4.65	30200					

Trip Gas

INTERVAL	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)
884	0.86						

CALCIMETRY

Interval (m MDRT)	Calcite Range (%)	Dolomite Range (%)
885 - 1385	0 - 2 %	0

Calcimetry discontinued due to the addition of CaCO₃ to the FloPro mud system (used to reduce water loss).

FORMATION PRESSURE ESTIMATION

All indications suggest the formation is normally pressured.

SAMPLE QUALITY

Sampling conducted at 5 to 10m intervals dependant on ROP.

MUDLOGGING EQUIPMENT / PERSONNEL

All Gas equipment working and calibrated.

MWD

Sensor distances behind bit

Survey (DM)	9.07m
Gamma Ray(DGR)	11.69m
Density (SLD)	14.89m
Resistivity(EWR)	17.69m
Porosity (CNP)	20.65m

WELLSITE GEOLOGISTS

Peter Boothby Ross Tolliday



OMV Australia





**End of Well Report
for
OMV**

Rig: Ocean Bounty

Well: Patricia-2

Field: Patricia

Country: Australia

Job No: AU-FE-02022

Date: 20-Jun-02

API No:

Table of Contents

1. General Information
2. Operational Overview
3. Summary of MWD Runs
4. Bitrun Summary
5. Directional Survey Data

General Information

Company: OMV
Rig: Ocean Bounty
Well: Patricia-2
Field: Patricia
Country: Australia
API Number:
Sperry-Sun Job Number: AU-FE-02022
Job start date: 20-Jun-02
Job end date: 28-Jun-02
North reference: Grid
Declination: 13.120 deg
Dip angle: -68.561 deg
Total magnetic field: 59948.832 nT
Date of magnetic data: 21-Jun-02
Wellhead coordinates N: 38 deg. 1 min 39.95 sec South
Wellhead coordinates E: 148 deg. 26 min 57.78 sec East
Vertical section direction: 231.56 deg
MWD Engineers: P. O'Shea P. Allen
M. Pope

Company Representatives: G. Howard

Company Geologist: P. Boothby R. Tolliday
Lease Name: VIC/L21
Unit Number: LT 1087
State: Victoria
County:

Operational Overview

Sperry Sun Drilling Services was contracted by OMV to provide Logging While Drilling (LWD) services on the drilling of their well, Patricia-2. The well was drilled in permit VIC/L21 by Diamond Offshore General Company's rig the Ocean Bounty.

445mm Hole Section:

A basic suite of 8" LWD tools were run to log this hole section. The toolstring consisted of Dual Gamma Ray (DGR) and four phase Electromagnetic Wave Resistivity (EWRP4) that were used for formation evaluation. A Directional Module (DM) was run for deviation control, also providing Surveys on the Fly (SOTF). A Dynamic Drillstring Sensor (DDS) was also run for vibration analysis. This section was completed in one bit run to 334.0 mMDRT. All tools performed well and all recorded data was obtained.

311 mm Hole Section:

A basic suite of 8" LWD tools (as run in the 445mm hole section) were run to log this hole section. This section was completed in one bit run from 334.0 to 884.0 mMDRT. All tools performed well and all recorded data was obtained.

216mm Hole Section:

A Triple Combo suite of 6 ¾" LWD tools were run in this hole section. The toolstring consisted of Dual Gamma Ray (DGR), four phase Electromagnetic Wave Resistivity (EWR-P4), Stabilised Litho Density (SLD), Compensated Neutron Porosity (CNP) tools that were used for formation evaluation. A Dynamic Drillstring Sensor was run for vibration analysis. A Position Monitor (PM) was run for deviation control. This section was completed in one bit run from 884.0 to 1385.0 mMDRT. All tools performed well and all recorded data was obtained.

Summary of MWD runs

Run No.	Bit No.	Hole Size (mm)	MWD Sensors	Start Depth (m)	End Depth (m)	Drill/Wide Distance (m)	Run Start Date Time	Run End Date Time	BRT Hrs.	Oper. Hrs.	Circ. Hrs.	Max. Temp. (degC)	Serv. Int.	Trip for MWD	Failure Type
0100	2	445.00	DIR-FE	111.56	334.00	222.44	21-Jun-02 00:42	21-Jun-02 14:32	13.85	13.85	6.59	17.00	No	No	
0200	3	311.00	DIR-FE	334.00	884.00	550.00	23-Jun-02 10:45	25-Jun-02 18:42	55.96	55.96	44.05	53.00	No	No	
0300	4	216.00	DIR-FE-NUKE	884.00	1385.00	501.00	26-Jun-02 19:47	28-Jun-02 11:44	39.95	39.95	22.98	47.00	No	No	
TOTALS						====>	1273.44		109.75	109.76	73.62		0	0	

Bitrun Summary

Run Time Data		Drilling Data		Mud Data																																											
MWD Run :	0100	Start Depth :	111.56 m	Mud Type : Sea Water																																											
Rig Bit No:	2	End Depth :	334.00 m	Weight / Visc :	1.06 sg /	100.00 spqt																																									
Hole Size :	445.00 mm	Footage :	222.44 m	Chlorides :	0.00 ppm																																										
Run Start :	21-Jun-02 00:42	Avg. Flow Rate :	780.00 gpm	PV / YP :	0.00 cp /	0.00 lhf2																																									
Run End :	21-Jun-02 14:32	Avg. RPM :	102.00 rpm	Solids/Sand :	N/A % /	N/A %																																									
BRT Hrs :	13.85	Avg. WOB :	7.50 klb	%Oil / O:W :	N/A % /	N/A %																																									
Circ. Hrs :	6.59	Avg. ROP :	55.50 m/hr	pH/Fluid Loss:	0.00 pH /	0.00 mptm																																									
Oper. Hrs :	13.85	Avg. SPP :	1220.00 psig	Max. Temp. :	17.00 degC																																										
MWD Schematics		BHA Schematics																																													
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		Max. Inc. : 11.8 deg/ 308.71 m																																													
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Max Op. Press. : 880.00 psig																																															

Bitrun Summary

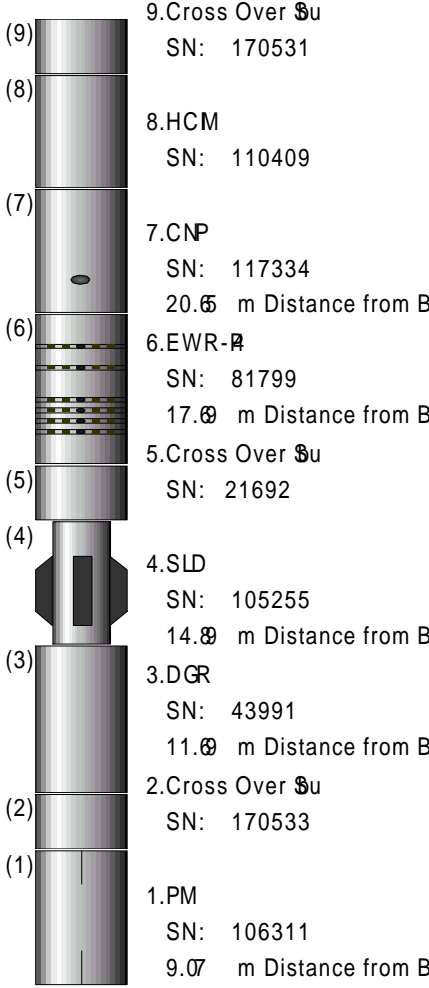
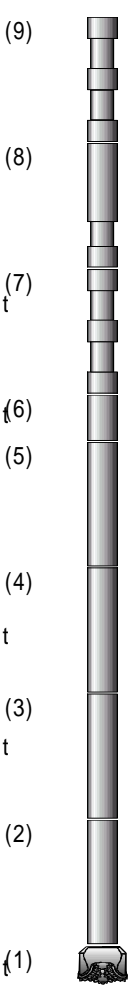
Run Time Data	Drilling Data	Mud Data
MWD Run : 0200	Start Depth : 334.00 m	Mud Type : KCI/PHPA
Rig Bit No: 3	End Depth : 884.00 m	Weight / Visc : 1.08 sg / 54.00 spqt
Hole Size : 311.00 mm	Footage : 550.00 m	Chlorides : 35000 ppm
Run Start : 23-Jun-02 10:45	Avg. Flow Rate : 847.00 gpm	PV / YP : 9.00 cp / 18.00 lhf2
Run End : 25-Jun-02 18:42	Avg. RPM : 67.00 rpm	Solids/Sand : 5 % / tr %
BRT Hrs : 55.96	Avg. WOB : 14.80 klb	%Oil / O:W : 3 % / 3/92
Circ. Hrs : 44.05	Avg. ROP : 19.10 m/hr	pH/Fluid Loss : 8.70 pH / 5.60 mptm
Oper. Hrs : 55.96	Avg. SPP : 2162.00 psig	Max. Temp. : 53.00 degC

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<p>(8) 8. Pulse SN: 59420</p> <p>(7) 7. Cross Over Su SN: 175215</p> <p>(6) 6. DM SN: 29034 18.3 m Distance from Bit</p> <p>(5) 5. Cross Over Su SN: 43488</p> <p>(4) 4. HCM SN: 100206</p> <p>(3) 3. DGR-DS SN: 102971 14.5 m Distance from Bit</p> <p>(2) 2. EWR-R SN: 121428 11.8 m Distance from Bit</p> <p>(1) 1. Cross Over Su SN: DA8001</p>		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Component</th> <th style="width: 10%;">Length (m)</th> <th style="width: 10%;">O.D. (mm)</th> <th style="width: 10%;">I.D. (mm)</th> </tr> </thead> <tbody> <tr><td>(11)</td><td></td><td></td><td></td></tr> <tr><td>(10)</td><td></td><td></td><td></td></tr> <tr><td>(9)</td><td></td><td></td><td></td></tr> <tr><td>(8)</td><td></td><td></td><td></td></tr> <tr><td>(7)</td><td>11. 30 x HWDP</td><td>277.2</td><td>127.000 76.200</td></tr> <tr><td>(6)</td><td>10. 30 x Drill Pipe</td><td>289.8</td><td>127.000 108.610</td></tr> <tr><td>(5)</td><td>09. 3 x HWDP</td><td>27.5</td><td>127.000 76.200</td></tr> <tr><td>(4)</td><td>08. Drilling Jars</td><td>9.2</td><td>203.000 49.000</td></tr> <tr><td>(3)</td><td>07. 3 x HWDP</td><td>26.4</td><td>127.000 76.200</td></tr> <tr><td>(2)</td><td>06. Cross Over Sub</td><td>1.0</td><td>203.000 49.000</td></tr> <tr><td>(1)</td><td>05. Float Sub</td><td>0.70</td><td>50.800 25.400</td></tr> <tr><td></td><td>04. 8" MPT w/Dir</td><td>6.7</td><td>203.000 49.000</td></tr> <tr><td></td><td>03. 8" RLL w/DGR + EWR</td><td>6.9</td><td>203.000 49.000</td></tr> <tr><td></td><td>02. 8" SperryDrill</td><td>9.5</td><td>203.200 49.000</td></tr> <tr><td></td><td>01. Reed MHT13GC</td><td>0.3</td><td>311.000 76.200</td></tr> </tbody> </table>	Component	Length (m)	O.D. (mm)	I.D. (mm)	(11)				(10)				(9)				(8)				(7)	11. 30 x HWDP	277.2	127.000 76.200	(6)	10. 30 x Drill Pipe	289.8	127.000 108.610	(5)	09. 3 x HWDP	27.5	127.000 76.200	(4)	08. Drilling Jars	9.2	203.000 49.000	(3)	07. 3 x HWDP	26.4	127.000 76.200	(2)	06. Cross Over Sub	1.0	203.000 49.000	(1)	05. Float Sub	0.70	50.800 25.400		04. 8" MPT w/Dir	6.7	203.000 49.000		03. 8" RLL w/DGR + EWR	6.9	203.000 49.000		02. 8" SperryDrill	9.5	203.200 49.000		01. Reed MHT13GC	0.3	311.000 76.200		
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Bitrun Summary

Run Time Data	Drilling Data	Mud Data
MWD Run : 0300	Start Depth : 884.00 m	Mud Type : Flo-Pro
Rig Bit No: 4	End Depth : 1385.00 m	Weight / Visc : 1.12 sg / 60.00 spqt
Hole Size : 216.00 mm	Footage : 501.00 m	Chlorides : 72000 ppm
Run Start : 26-Jun-02 19:47	Avg. Flow Rate : 574.00 gpm	PV / YP : 11.00 cp / 32.00 lhf2
Run End : 28-Jun-02 11:44	Avg. RPM : 66.00 rpm	Solids/Sand : 8 % / 0.25 %
BRT Hrs : 39.95	Avg. WOB : 11.10 klb	%Oil / O:W : N/A % / N/A/92
Circ. Hrs : 22.98	Avg. ROP : 34.80 m/hr	pH/Fluid Loss: 9.50 pH / 4.80 mptm
Oper. Hrs : 39.95	Avg. SPP : 2089.00 psig	Max. Temp. : 47.00 degC

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 <p>9. Cross Over Su SN: 170531</p> <p>8. HCM SN: 110409</p> <p>7. CNP SN: 117334 20.6 m Distance from Bit</p> <p>6. EWR-# SN: 81799 17.0 m Distance from Bit</p> <p>5. Cross Over Su SN: 21692</p> <p>4. SLD SN: 105255 14.0 m Distance from Bit</p> <p>3. DGR SN: 43991 11.0 m Distance from Bit</p> <p>2. Cross Over Su SN: 170533</p> <p>1. PM SN: 106311 9.07 m Distance from Bit</p>		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Component</th> <th style="width: 15%;">Length (m)</th> <th style="width: 15%;">O.D. (mm)</th> <th style="width: 15%;">I.D. (mm)</th> </tr> </thead> <tbody> <tr><td>(9)</td><td></td><td></td><td></td></tr> <tr><td>(8)</td><td></td><td></td><td></td></tr> <tr><td>(7)</td><td></td><td></td><td></td></tr> <tr><td>(6)</td><td></td><td></td><td></td></tr> <tr><td>(5)</td><td></td><td></td><td></td></tr> <tr><td>(4)</td><td>09. 3 x HWDP</td><td>27.5</td><td>127.000 76.200</td></tr> <tr><td>(4)</td><td>08. Drilling Jars</td><td>9.0</td><td>165.000 70.000</td></tr> <tr><td>(3)</td><td>07. 3 x HWDP</td><td>26.4</td><td>127.000 76.200</td></tr> <tr><td>(3)</td><td>06. Float Sub</td><td>0.7</td><td>165.000 73.000</td></tr> <tr><td>(3)</td><td>05. 6-3/4 MPT</td><td>3.4</td><td>171.450 46.740</td></tr> <tr><td>(2)</td><td>04. 6-3/4 RLL w/DGR+EWR+SLD+CNZ</td><td>17.0</td><td>171.450 48.510</td></tr> <tr><td>(2)</td><td>03. 6-3/4 Dir</td><td>2.3</td><td>171.450 49.000</td></tr> <tr><td>(1)</td><td>02. 6-3/4" SperryDrill</td><td>7.0</td><td>171.450 70.000</td></tr> <tr><td>(1)</td><td>01. Reed EHP41ALKDH</td><td>0.6</td><td>216.000 76.200</td></tr> </tbody> </table>	Component	Length (m)	O.D. (mm)	I.D. (mm)	(9)				(8)				(7)				(6)				(5)				(4)	09. 3 x HWDP	27.5	127.000 76.200	(4)	08. Drilling Jars	9.0	165.000 70.000	(3)	07. 3 x HWDP	26.4	127.000 76.200	(3)	06. Float Sub	0.7	165.000 73.000	(3)	05. 6-3/4 MPT	3.4	171.450 46.740	(2)	04. 6-3/4 RLL w/DGR+EWR+SLD+CNZ	17.0	171.450 48.510	(2)	03. 6-3/4 Dir	2.3	171.450 49.000	(1)	02. 6-3/4" SperryDrill	7.0	171.450 70.000	(1)	01. Reed EHP41ALKDH	0.6	216.000 76.200
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Directional Survey Data

Measured Depth (metres)	Inclination (degrees)	Direction (degrees)	Vertical Depth (metres)	Latitude (metres)	Departure (metres)	Vertical Section (metres)	Dogleg (deg/30m)
75.91	0.00	0.00	75.91	0.00N	0.00E	0.00	TIE-IN
137.95	0.98	9.90	137.95	0.52N	0.09E	-0.40	0.47
165.42	1.05	16.3	165.41	0.99N	0.20E	-0.78	0.15
192.59	1.25	321.00	192.58	1.46N	0.09E	-0.98	1.19
221.64	2.72	262.28	221.61	1.62N	0.79W	-0.38	2.40
250.74	6.36	248.26	250.62	0.93N	2.98W	1.75	3.90
280.05	10.51	243.19	279.60	0.89S	6.88W	5.94	4.36
314.81	11.71	244.06	313.71	3.87S	12.9 W	12.5	1.04
337.81	11.61	239.93	336.23	6.06S	17.0 W	17.0	1.10
355.14	12.1	235.45	353.19	7.96S	20.0 W	20.6	1.80
382.28	13.41	229.93	379.66	11.6 S	24.7 W	26.6	1.99
411.60	14.41	228.68	408.11	16.2 S	30.1 W	33.6	1.08
436.36	15.71	229.40	432.02	20.4 S	35.0 W	40.1	1.59
463.50	16.41	229.88	458.09	25.3 S	40.7 W	47.6	0.79
490.85	20.21	230.66	484.05	30.8 S	47.3 W	56.2	4.18
520.47	25.01	231.57	511.37	37.9 S	56.2 W	67.6	4.89
545.72	30.21	231.75	533.73	45.2 S	65.4 W	79.3	6.12
574.70	36.01	230.71	557.99	55.1 S	77.7 W	95.2	6.10
601.82	41.61	229.84	579.10	66.0 S	90.8 W	112.22	6.14
632.62	46.71	229.27	601.19	79.9 S	107.18W	133.65	4.97
661.71	51.61	229.87	620.20	94.2 S	123.94W	155.65	5.13
691.25	56.21	230.56	637.59	109.49S	142.28W	179.51	4.67
720.54	59.51	230.67	653.15	125.23S	161.46W	204.32	3.44
749.62	64.11	230.16	666.85	141.57S	181.22W	229.96	4.78
778.45	66.81	230.06	678.79	158.40S	201.35W	256.18	2.78
807.00	71.91	230.46	688.84	175.47S	221.89W	282.89	5.34
836.59	78.11	230.03	696.48	193.75S	243.86W	311.46	6.31
862.88	85.11	229.80	700.29	210.49S	263.75W	337.44	8.05
890.03	90.21	230.02	701.37	227.95S	284.49W	364.55	5.59
918.39	91.0	230.36	701.06	246.11S	306.28W	392.90	0.89
946.77	90.81	230.25	700.60	264.23S	328.11W	421.27	0.19
975.03	89.51	229.75	700.51	282.40S	349.76W	449.52	1.53
1002.56	90.61	230.40	700.48	300.07S	370.87W	477.04	1.42
1030.12	88.9	232.09	700.59	317.32S	392.36W	504.59	2.62
1056.95	87.9	231.93	701.32	333.82S	413.50W	531.41	1.07
1086.87	90.01	231.90	701.85	352.27S	437.04W	561.33	2.04
1112.97	90.61	232.56	701.71	368.26S	457.68W	587.42	1.03
1140.50	89.61	233.10	701.65	384.89S	479.61W	614.95	1.17
1170.64	89.91	233.29	701.74	402.95S	503.75W	645.07	0.36
1198.27	90.71	233.79	701.57	419.37S	525.97W	672.69	0.94

Directional Survey Data

Measured Depth (metres)	Inclination (degrees)	Direction (degrees)	Vertical Depth (metres)	Latitude (metres)	Departure (metres)	Vertical Section (metres)	Dogleg (deg/30m)
1224.64	89.51	231.69	701.50	435.33S	546.95W	699.05	2.70
1252.22	89.91	231.72	701.62	452.42S	568.60W	726.63	0.34
1281.21	90.91	232.67	701.40	470.19S	591.51W	755.62	1.49
1310.13	89.61	232.72	701.24	487.71S	614.51W	784.53	1.35
1339.08	89.81	233.39	701.37	505.11S	637.64W	813.47	0.72
1368.17	90.41	234.02	701.30	522.33S	661.09W	842.54	0.92
1385.00	90.41	234.02	701.16	532.22S	674.71W	859.35	0.01

Directional Survey Data

CALCULATION BASED ON MINIMUM CURVATURE METHOD
SURVEY COORDINATES RELATIVE TO WELL SYSTEM REFERENCE POINT
TVD VALUES GIVEN RELATIVE TO DRILLING MEASUREMENT POINT
VERTICAL SECTION RELATIVE TO WELL HEAD
VERTICAL SECTION IS COMPUTED ALONG A DIRECTION OF 231.56 DEGREES (GRID)
A TOTAL CORRECTION OF 14.01 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED
HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.
HORIZONTAL DISPLACEMENT(CLOSURE) AT 1385.00 METRES
IS 859.36 METRES ALONG 231.73 DEGREES (GRID)

Surveys have been SAG corrected.
Final survey extrapolated to TD.

Sperry-Sun, A Halliburton Company

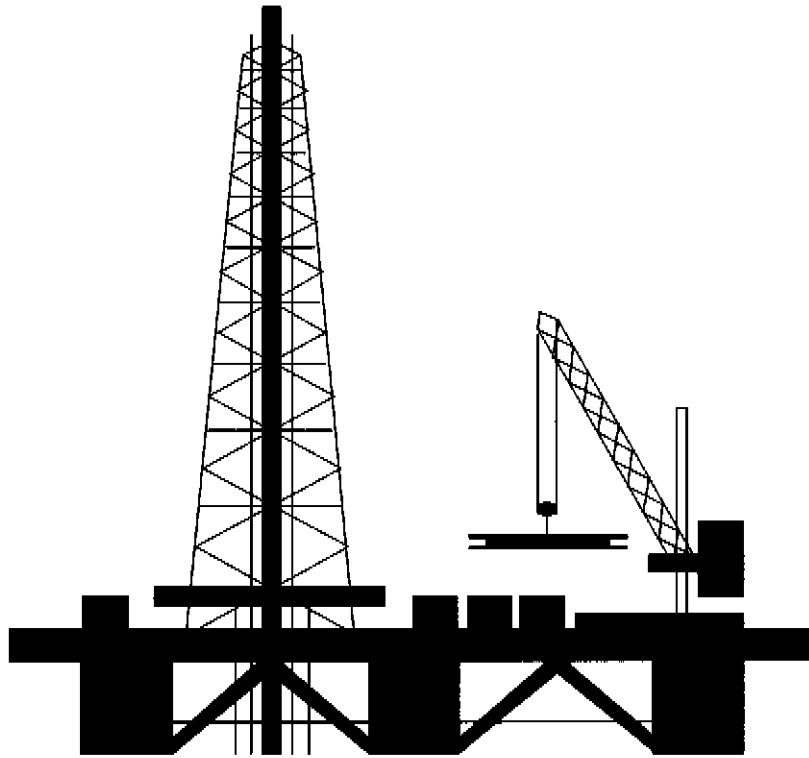




OMV Australia



OMV AUSTRALIA PTY. LTD.



DIRECTIONAL DRILLING END OF WELL REPORT



sperry-sun
DRILLING SERVICES

Page 1 of 10

OMVAustraliaPtyLtd
REPORTING
20030109

OMV AUSTRALIA PTY. LTD.

WELL : PATRICIA #2

TABLE OF CONTENTS

SECTION ONE :	WELL SUMMARY
SECTION TWO :	SURVEY PLOT & DEFINITIVE SURVEY REPORTS
SECTION THREE :	SURVEY & DRILLING PARAMETERS
SECTION FOUR :	BHA DATA
SECTION FIVE :	MOTOR PERFORMANCE REPORTS
SECTION SIX :	DAILY DIRECTIONAL DRILLING REPORTS

Client : OMV Australia Pty. Ltd.

Well Name : Patricia #2

Job Objectives:

To drill a horizontal producer to optimally drain the Patricia gas reservoir.

Summary of Results:

36" Hole

BHA #1 was run in the 36" hole at 75.98mMD. The bit used was a 26" Smith DSJC tooth bit with a 36" hole opener. The bit was run with a total flow area of 0.967 in²mm², with the bit having a total of 3 x 18/32nds and 1 x 17/32nd jets. The average flow rate used was 525gpm. The drilling fluid used was a seawater system. The circulating pressure averaged 1000psi. The average WOB was 8 klbs to a maximum of 10 klbs. The ROP averaged 60 m/hr. This assembly was pulled at 111.50 metres. This assembly drilled the 36" inch hole with no difficulty and the bit, which had been run on the Balcen #3 well, came out 1-1-NO-A-E-I-NO-TD.

Additional Comments

The Totco survey showed @ ¼°.

BHA # 1 Hours

BIII Mudloggers- 0.6 drilling hours and 0.8 total circulating hours.

IADC Tour Book- 1.0 drilling hours and 1.5 total circulating hours.

17½" Hole

This section was drilled without incident using a 9-5/8" Sperry-Drill set at 1.5° bent housing. Angle was built to 12° along the proposed 240° Azimuth without problem, the assembly being capable of up to 5°/30m with 800 gpm in 100% oriented mode.

Additional Comments

Flow rates could have been increased upon reaching TD of this section to 1000 GPM to aid in hole cleaning. It was necessary to keep it low for the build or we would have washed all our angle away.

BHA # 2 Hours

MWD/LWD loggers- 4.01 drilling hours and 6.59 total circulating hours.

IADC Tour Book- 5.5 drilling hours and 8.0 total circulating hours.

12¼" Hole

An 8" Performance Sperry Drill 1.5° was used to drill this section. Proposed build rates were 4°/30m, and from experience on Balleen 3 it was decided a 1.5° bent housing would be required. A Reed Milled tooth, type MHT13GC was selected to drill the section, and this performed well, being graded 1-1-NO-E-I-NO-TD.

Average flow rate used for this section was 850 GPM, with only 50 to 100 psi Differential pressure being generated with an average of 30klb oriented and 12-15 klb while rotating. ROP averaged 11m/hr in slide mode and 17 m/hr in rotary, and the 550m section was drilled in one 39 hr run at an overall ROP of 14m/hr.

The motor averaged 5°/30m doglegs with an average set of 10 meters per stand. This assembly was capable of 10°/30m doglegs. On reaching TD in the top Gurnard a wiper trip was made back to the shoe and no fill or tight hole was encountered. The trip out was without incident, and 9-5/8" casing was run to bottom without any problems.

Additional Comments

Again this assembly was pumped at high rates and working the pipe Highside once TDed, to avoid losing angle in the soft sands of the Gurnard. A wiper trip went very well with no fill or tight spots. As a precaution the first few stands were pumped out.

BHA # 3 Hours

MWD/LWD loggers- 28.8 drilling hours and 44.05 total circulating hours.

IADC Tour Book- 39.25 drilling hours and 44.00 total circulating hours.

8½" Hole

A 6-3/4" 6/7 lobe Sperry-Drill was picked up and set to 1.5 degrees. The float shoe and cement were drilled with reduced parameters to minimize vibration, and drilling then proceeded according to the Directional proposal. The well was landed with a 6°/30m dogleg severity at 701m TVD, and the horizontal section was drilled in one run to 1385m MD. TVD ranged through the run from 701.1m to 701.7m. The motor averaged 2.5°/30m doglegs with an average set of 8 meters. It is estimated that in full slide mode the assembly could achieve 9°/30m doglegs. The assembly was pulled at a measured depth of 1385 meters, with an extrapolated inclination of 90.5° at a direction of 234.0°, after reaching TD of the well.

Sliding after the first couple of singles became difficult until HWDP was added and the flow rate was increased from 550 GPM to 580 GPM. It slowed down again for the last 3 stands prior to TD.

Throughout the run a total of 43m was drilled in oriented mode at an average of 8m/hr, and 458m was drilled in rotary mode at an average 24m/hr. This resulted in the 501m section being drilled in 22 hours at an overall ROP of 23m/hr.

Additional Comments

Sliding after the first couple of singles became difficult until HWDP was added and the flow rate was increased from 550 GPM to 580 GPM. It slowed down again when we got a couple of stands from Final TD.

BHA # 4 Hours

MWD/IWD loggers- 14.4 drilling hours and 22.98 total circulating hours.

TAIC Tour Book- 22.00 drilling hours and 27.00 total circulating hours.

Discussion:

BHA #	Bit #	Motor Run #	Hole Size (in)	MD In (m)	MD Out (m)	TVD In (m)	TVD Out (m)	Inc In (deg)	Inc Out (deg)	Azi In (deg)	Azi Out (deg)	Drig hrs	Circ hrs
1	1rr1		26.000	78	111	78	111	0.0	0.6	10	10	1	1
2	2rr1	1	17.500	111	334	111	332	0.6	11.6	10	241	6	3
3	3	2	12.250	334	884	332	701	11.6	89.1	241	230	39	5
4	4	3	8.500	884	1385	701	701	89.1	90.5	230	234	22	5

Table 1 - BHA Summary

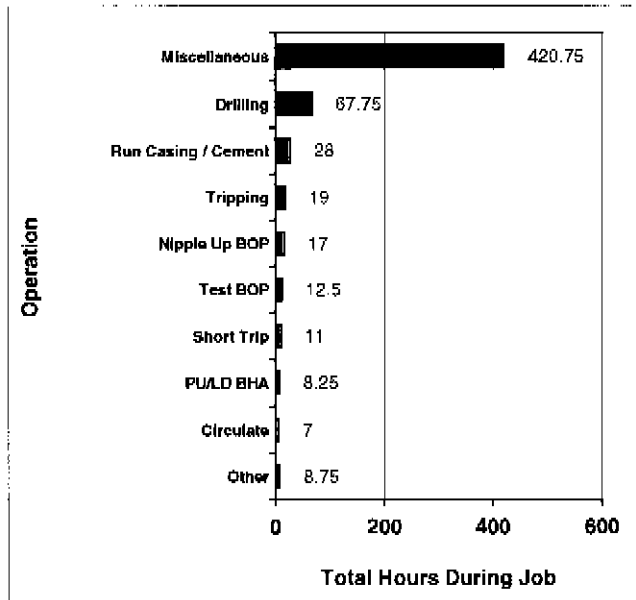
Motor Run #	Manufacturer	Type	Lobe	OD (in)	Gauge (in)	Bend (deg)	Adj	DLS (Ori) (°/30m)	ROP (Ori) (m/hr)	ROP (Rot) (m/hr)
1	SSDS	SperryDrill	6/7	9.625	17.250	1.50	Y		30	45
2	SSDS	SperryDrill	4/5	8.000	12.125	1.50	Y		11	17
3	SSDS	SperryDrill	6/7	6.750	8.250	1.50	Y	1.50	8	24

Table 2 - Motor Run Summary

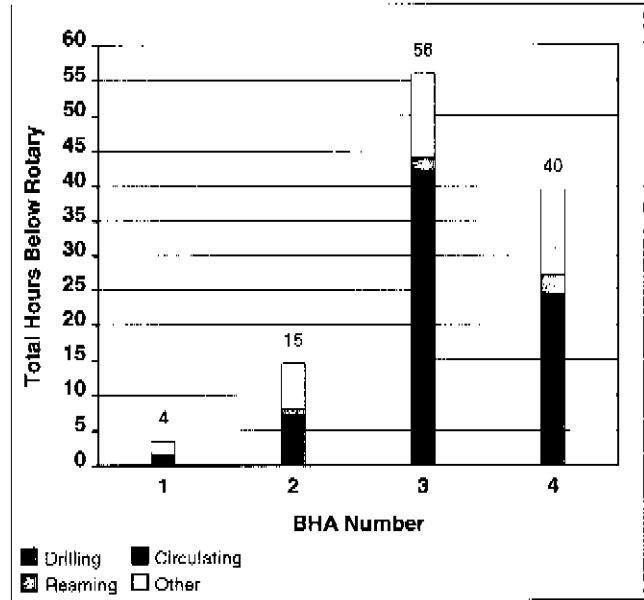
Bit #	Manufacturer	Style	OD (in)	Gge Len (in)	Nozzles (/32's)	TFA (In²)	Dull Grades	Ftge (m)	Drig hrs	ROP (m/hr)
1rr1	Smith	DSJC	26.000		3x18, 1x17	0.987	0-0-NO-A-E-I-NO-TD	34	1.00	34
2rr1	Security DBS	XT1C	17.500		3x24	1.325	1-1-BU-A-E-I-NO-TD	222	5.50	40
3	Reed	MHT13GC	12.250	1.000	3x15, 1x24	0.960	1-1-WT-G-E-I-NO-TD	550	39.25	14
4	Reed	EHP41ALKD H	8.500		3x14	0.451	1-2-ER-G-E-I-WT-TD	501	22.00	23

Table 3 - Bit Run Summary

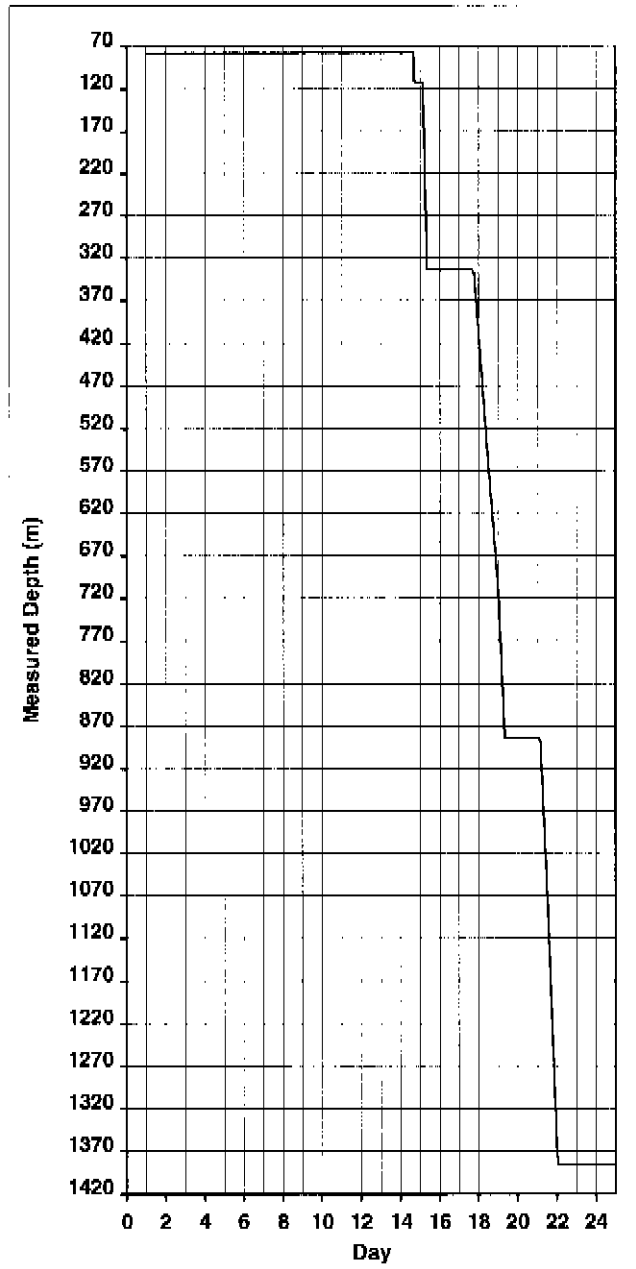
Hours by Operation Summary



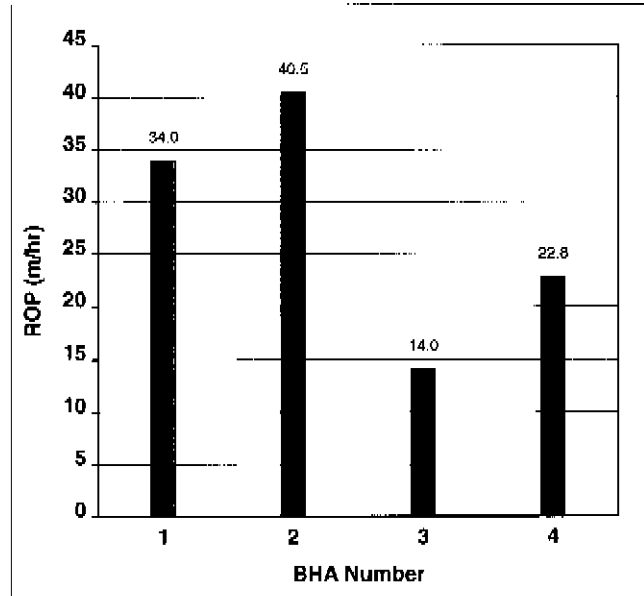
Hours per BHA Breakdown



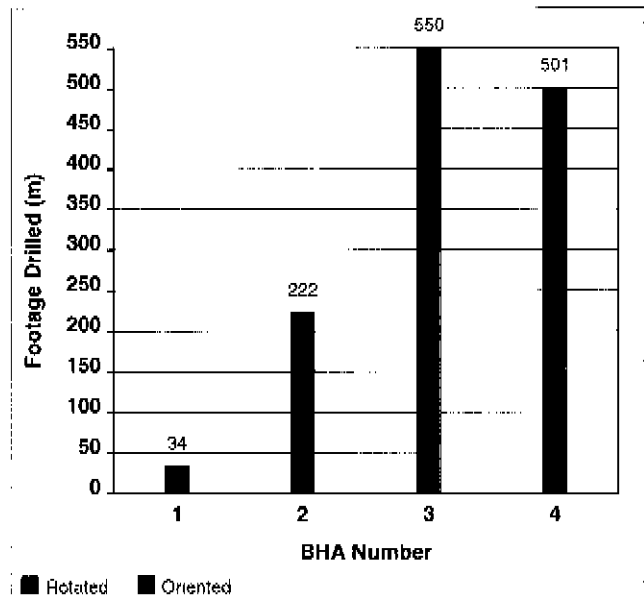
Days vs. Depth



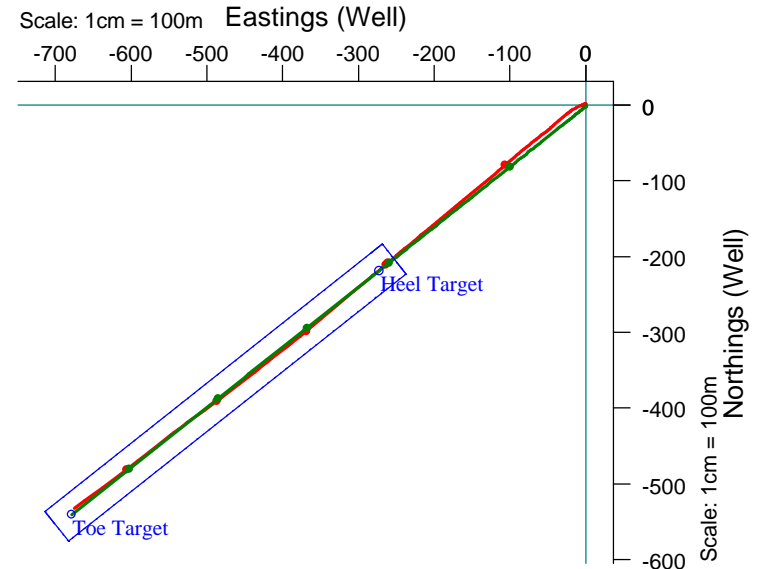
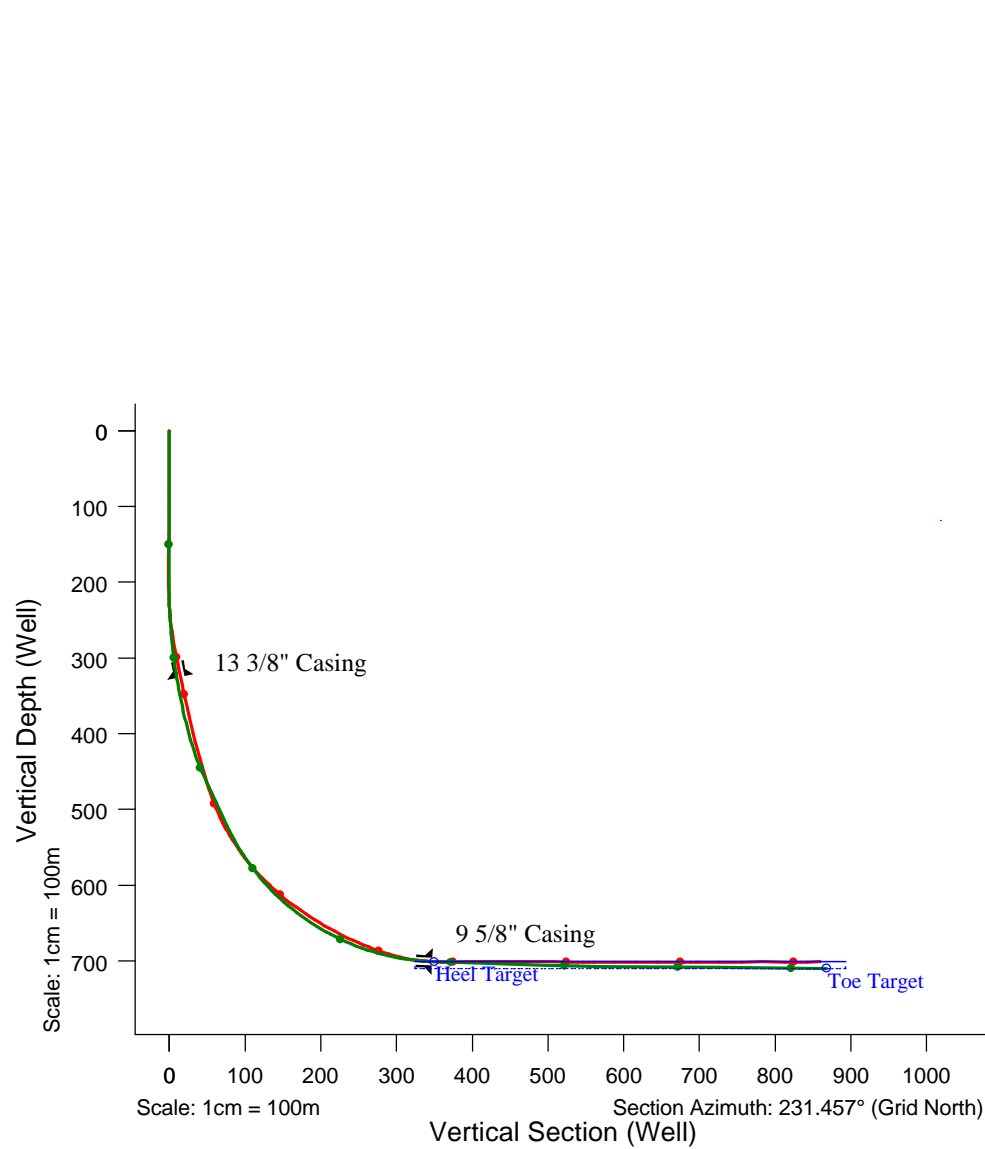
Average Rate of Penetration per BHA



Footage per BHA



Well : Patricia #2





OMV Australia Pty. Ltd.
Patricia
Patricia #2 : 8½" MWD Survey

Sperry-Sun

Survey Report

13 August, 2002

Surface Coordinates: 5790098.70 N, 627207.70 E (38° 01' 39.9460" S, 148° 26' 57.7775" E)
Grid Coordinate System: UTM Zone 55S on Australian Geodetic Datum 1966, Meters

Kelly Bushing: 25.00m above Mean Sea Level

Survey Ref: svy5214

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Survey Report for Patricia #2

Measured Depth (m)	Incl.	Azim.	Sub-Sea Depth (m)	Vertical Depth (m)	Local Coordinates Northings (m)	Local Coordinates Eastings (m)	Global Coordinates Northings (m)	Global Coordinates Eastings (m)	Dogleg Rate (°/30m)	Vertical Section	Comment
Patricia #2 : 17½" MWD Survey											
0.00	0.000	0.000	-25.00	0.00	0.00 N	0.00 E	5790098.70 N	627207.70 E		0.00	
75.98	0.000	0.000	50.98	75.98	0.00 N	0.00 E	5790098.70 N	627207.70 E	0.00	0.00	
137.95	0.980	9.900	112.95	137.95	0.52 N	0.09 E	5790089.22 N	627207.79 E	0.47	-0.40	
165.42	1.050	16.310	140.41	165.41	1.00 N	0.20 E	5790099.70 N	627207.90 E	0.15	-0.78	
192.59	1.250	321.000	167.58	192.58	1.48 N	0.09 E	5790100.16 N	627207.79 E	1.19	-0.98	
221.64	2.720	262.280	196.61	221.61	1.62 N	0.80 W	5790100.32 N	627206.90 E	2.41	-0.38	
250.74	6.360	248.260	225.62	250.62	0.93 N	2.98 W	5790089.63 N	627204.72 E	3.90	1.75	
280.05	10.560	243.190	254.60	279.60	0.88 S	6.89 W	5790097.81 N	627200.81 E	4.36	5.94	
314.81	11.750	244.060	288.70	313.70	3.87 S	12.91 W	5790094.83 N	627194.79 E	1.04	12.51	
Patricia #2 : 12¼" MWD Survey											
326.47	11.682	241.977	300.12	325.12	4.94 S	15.02 W	5790093.76 N	627192.68 E	1.10	14.83	13 3/8" Casing
337.81	11.630	239.930	311.23	336.23	6.06 S	17.02 W	5790092.64 N	627190.68 E	1.10	17.09	
355.14	12.110	235.450	328.19	353.19	7.96 S	20.03 W	5790090.74 N	627187.67 E	1.80	20.63	
382.28	13.440	229.930	354.66	379.66	11.61 S	24.79 W	5790087.09 N	627182.91 E	1.99	26.62	
411.60	14.450	228.680	383.11	408.11	16.22 S	30.15 W	5790082.48 N	627177.55 E	1.08	33.68	
436.36	15.750	229.400	407.02	432.02	20.44 S	35.02 W	5790078.26 N	627172.68 E	1.59	40.13	
463.50	16.450	229.880	433.09	458.09	25.32 S	40.75 W	5790073.38 N	627166.95 E	0.79	47.65	
490.85	20.250	230.660	459.05	484.05	30.81 S	47.38 W	5790067.89 N	627160.32 E	4.18	56.26	
520.47	25.070	231.570	486.37	511.37	37.97 S	56.26 W	5790060.73 N	627151.44 E	4.89	67.66	
545.72	30.220	231.750	508.73	533.73	45.23 S	65.45 W	5790053.47 N	627142.25 E	6.12	79.38	
574.70	36.080	230.710	532.98	557.98	55.16 S	77.79 W	5790043.54 N	627129.91 E	6.09	95.22	
601.82	41.610	229.840	554.10	579.10	66.03 S	90.87 W	5790032.67 N	627116.83 E	6.15	112.22	
632.62	46.700	229.270	576.19	601.19	79.95 S	107.19 W	5790018.75 N	627100.51 E	4.97	133.65	
661.71	51.650	229.870	595.20	620.20	94.22 S	123.94 W	5790004.48 N	627083.76 E	5.13	155.65	
691.25	56.220	230.560	612.59	637.59	109.49 S	142.29 W	5789989.21 N	627065.41 E	4.68	179.51	

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Survey Report for Patricia #2

Measured Depth (m)	Incl.	Azim.	Sub-Sea Depth (m)	Vertical Depth (m)	Local Coordinates Northings (m)	Local Coordinates Eastings (m)	Global Coordinates Northings (m)	Global Coordinates Eastings (m)	Dogleg Rate (°/30m)	Vertical Section	Comment
720.54	59.580	230.670	628.15	653.15	125.23 S	161.46 W	5789973.47 N	627046.24 E	3.44	204.32	
721.40	59.716	230.654	628.58	653.58	125.70 S	162.04 W	5789973.00 N	627045.66 E	4.78	205.06	Lakes Entrance
749.62	64.190	230.160	641.85	666.85	141.57 S	181.22 W	5789957.13 N	627026.48 E	4.78	229.96	
778.45	66.860	230.060	653.79	678.79	158.40 S	201.35 W	5789940.30 N	627006.35 E	2.78	256.19	
807.00	71.930	230.460	663.84	688.84	175.48 S	221.90 W	5789923.22 N	626985.80 E	5.34	282.89	
819.40	74.532	230.277	667.41	692.41	183.05 S	231.04 W	5789915.65 N	626976.66 E	6.31	294.76	Top Gumard
836.59	78.140	230.030	671.47	696.47	193.75 S	243.86 W	5789904.95 N	626963.84 E	6.31	311.46	
842.80	79.805	229.975	672.66	697.66	197.67 S	248.53 W	5789901.03 N	626959.17 E	8.05	317.55	SG2 Top Porosity
862.88	85.190	229.800	675.28	700.28	210.49 S	263.75 W	5789888.21 N	626943.95 E	8.05	337.45	
Patricia #2 : 8½" MWD Survey											
872.36	86.953	229.877	675.93	700.93	216.59 S	270.98 W	5789882.11 N	626936.72 E	5.59	346.90	9 5/8" Casing
890.03	90.240	230.020	676.36	701.36	227.96 S	284.50 W	5789870.74 N	626923.20 E	5.59	364.56	
918.39	91.010	230.360	676.06	701.06	246.11 S	306.28 W	5789852.59 N	626901.42 E	0.89	392.91	
946.77	90.860	230.250	675.59	700.59	264.24 S	328.11 W	5789834.46 N	626879.59 E	0.20	421.28	
975.03	89.500	229.750	675.50	700.50	282.40 S	349.76 W	5789816.30 N	626857.94 E	1.54	449.53	
1002.56	90.630	230.400	675.47	700.47	300.07 S	370.87 W	5789798.63 N	626836.83 E	1.42	477.05	
1030.12	88.910	232.090	675.58	700.58	317.32 S	392.36 W	5789781.38 N	626815.34 E	2.62	504.61	
1056.95	87.970	231.930	676.31	701.31	333.83 S	413.50 W	5789764.87 N	626794.20 E	1.07	531.43	
1086.87	90.000	231.900	676.84	701.84	352.28 S	437.05 W	5789746.42 N	626770.65 E	2.04	561.34	
1112.97	90.600	232.560	676.71	701.71	368.26 S	457.68 W	5789730.44 N	626750.02 E	1.03	587.44	
1140.50	89.680	233.100	676.64	701.64	384.90 S	479.61 W	5789713.80 N	626728.09 E	1.16	614.96	
1170.64	89.990	233.290	676.73	701.73	402.95 S	503.75 W	5789695.75 N	626703.95 E	0.36	645.08	
1198.27	90.700	233.790	676.56	701.56	419.37 S	525.97 W	5789679.33 N	626681.73 E	0.94	672.69	
1224.64	89.590	231.690	676.49	701.49	435.34 S	546.95 W	5789663.36 N	626660.75 E	2.70	699.06	
1252.22	89.900	231.720	676.62	701.62	452.43 S	568.60 W	5789646.27 N	626639.10 E	0.34	726.63	

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Survey Report for Patricia #2

Measured Depth (m)	Incl.	Azim.	Sub-Sea Depth (m)	Vertical Depth (m)	Local Coordinates Northings (m)	Local Coordinates Eastings (m)	Global Coordinates Northings (m)	Global Coordinates Eastings (m)	Dogleg Rate (°/30m)	Vertical Section	Comment
1281.21	90.980	232.670	676.39	701.39	470.20 S	591.50 W	5789628.50 N	626616.20 E	1.49	755.62	
1310.13	89.670	232.720	676.23	701.23	487.72 S	614.51 W	5789610.98 N	626593.19 E	1.36	784.53	
1339.08	89.820	233.390	676.36	701.36	505.12 S	637.64 W	5789593.58 N	626570.06 E	0.71	813.47	
1368.17	90.460	234.020	676.29	701.29	522.34 S	661.09 W	5789576.36 N	626546.61 E	0.93	842.54	
1385.00	90.460	234.020	676.15	701.15	532.23 S	674.71 W	5789566.47 N	626532.99 E	0.00	859.35	TD

All data is in Metres unless otherwise stated. Directions and coordinates are relative to Grid North. Vertical depths are relative to Well. Northings and Eastings are relative to Well.

Global Northings and Eastings are relative to UTM Zone 55S on Australian Geodetic Datum 1966, Meters.

The Dogleg Severity is in Degrees per 30 metres.

Vertical Section is from Well and calculated along an Azimuth of 231.457° (Grid).

Coordinate System is UTM Zone 55S on Australian Geodetic Datum 1966, Meters.

Grid Convergence at Surface is -0.893°. Magnetic Convergence at Surface is -14.003° (01-Jul-02)

Based upon Minimum Curvature type calculations, at a Measured Depth of 1385.00m.,

The Bottom Hole Displacement is 859.36m., in the Direction of 231.732° (Grid).

Casing depths and formation tops are provisional, and should only be used as a guide.

HALLIBURTON

Survey Report for Patricia #2

Comments

Measured Depth (m)	Station Coordinates			Comment
	TVD (m)	Northings (m)	Eastings (m)	
1385.00	701.15	532.23 S	674.71 W	TD

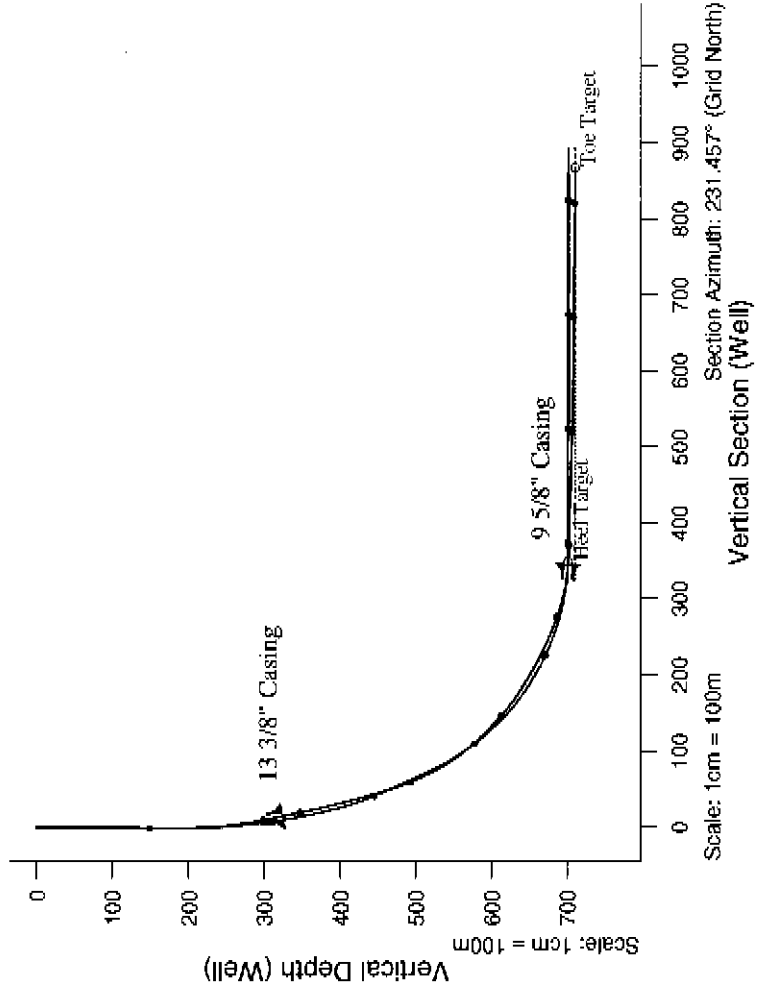
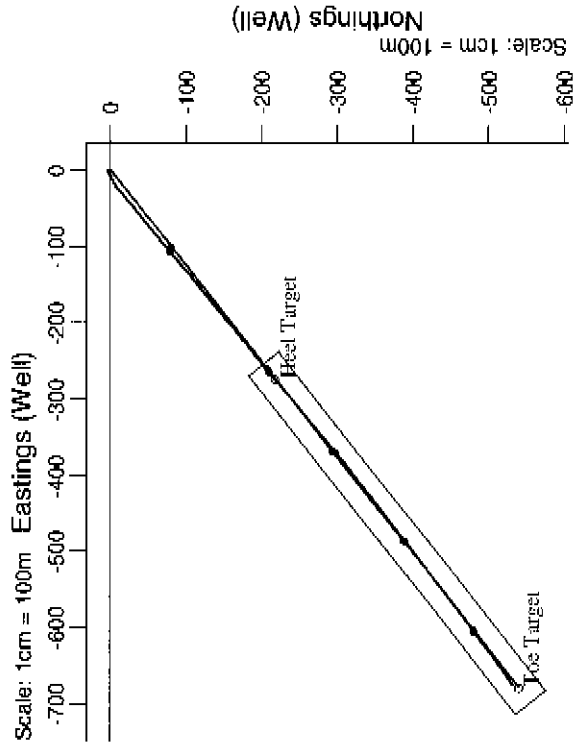
Formation Tops

Measured Depth (m)	Vertical Depth (m)	Sub-Sea Depth (m)	Northings (m)	Eastings (m)	Dip Angle	Up-Dip Dim.	Formation Name
721.40	653.58	628.58	125.70 S	162.04 W	0.000	0.000	Lakes Entrance
819.40	692.41	667.41	183.05 S	231.04 W	0.000	0.000	Top Gumard
842.80	697.66	672.66	197.67 S	248.53 W	0.000	0.000	SG2 Top Porosity

Casing details

Measured Depth (m)	From To		Casing Detail
	Vertical Depth (m)	Vertical Depth (m)	
<Surface>	<Surface>	326.47	13 3/8" Casing
<Surface>	<Surface>	872.36	9 5/8" Casing

Well : Patricia #2



Sperry-SUN DRILLING SERVICES

BHA Report

Client : OMV Australia Pty. Ltd.
Well Name : Patricia #2
Block : Vic/L21
Location : Gippsland Sub Basin
Rlg : Ocean Bounty
Job # : AU-DD-02022

BHA# 1

BHA# 1 : Date In :20/06/200 MD In (m) : 78 TVD In (m) : 78 Date Out 20/06/200 MD Out (m): 111 TVD Out (m): 111

BIT DATA

Bit #	OD (in)	MFR	Style	Serial#	Nozzles (/32's)	TFA (in ²)	Dull Condition
1rr1	26.000	Smith	DSJC	KP2374	3x18, 1x17	0.967	0-0-NO-A -E-I-NO-TD

MOTOR DATA

Run #	OD (in)	MFR	Model	Serial#	Bend	Nzl (/32's)	Avg Dif (psi)	Cum Circ Hrs
-------	---------	-----	-------	---------	------	-------------	---------------	--------------

COMPONENT DATA

Item #	Description	Serial #	OD (in)	ID (in)	Gauge (in)	Weight (lbs/ft)	Top Con	Length (m)	Bit - Center Blade (m)
1	26" Milled Tooth Bit	KP2374	26.000		26.000		P 7-5/8" Reg	0.62	
2	36" Hole Opener	46367	9.500	3.000	36.000	217.48	P 7-5/8" Reg	2.22	
3	9-1/2" Bit Sub w/ Float & Totco Ring	975	9.500	3.000		217.48	B 7-5/8" Reg	0.97	
4	3 x 9-1/2" Spiral Drill collar		9.500	3.000		217.00	B 7-5/8" Reg	27.85	
5	Cross Over Sub	144-211	9.500	3.000		217.48	B 6-5/8" Reg	1.17	
6	3 x 8" Spiral Drill collar		8.000	2.810		150.00	B 6-5/8" Reg	28.44	
7	Cross Over Sub	144-204	8.000	2.880		149.10	B 4-1/2" IF	0.97	
								62.24	

Parameter	Min	Max	Ave
WOB (klbs) :	8	8	8
RPM (rpm) :	50	50	50
Flow (gpm) :	525	525	525
SPP (psi) :	1000	1000	1000

Activity	Hrs
Drilling :	1.00
Reaming :	0.00
Circ-Other :	0.50
Total :	1.50

BHA Weight (lb)	
in Air (Total) :	
in Mud (Total) :	
in Air (Bel Jars) :	0
in Mud (Bel Jars) :	

Drill String	OD(in)	Len(m)

PERFORMANCE

	In	Out
Inclination (deg)	0.02	0.56
Azimuth (deg)	9.90	9.90

	Distance(m)	ROP (m/hr)	Build (°/30m)	Turn (°/30m)	DLS (°/30m)
Oriented :	0.00	0			6.00
Rotated :	34.00	34	0.30	0.30	
Total :	34.00	34	0.47	0.00	0.47

COMMENTS

Drilled to 111.5m. POOH to run 20" conductor.

OBJECTIVES:

Spud well and drill 36" hole vertically to 112mMD.

RESULTS:

RIH 36" hole opener assembly. Tagged seabed at 77.5m and drilled to 111.5m. Circulate clean then dropped a TOTCO survey prior to POOH. Survey showed ¼° inclination.

sperry-sun

DRILLING SERVICES

BHA Report

Client : OMV Australia Pty. Ltd.
 Well Name : Patricia #2
 Block : Vic/L21
 Location : Gippsland Sub Basin
 Rig : Ocean Bounty
 Job # : AU-DD-02022

BHA# 2

BHA# 2 : Date In 21/06/200 MD In (m) : 111 TVD In (m) : 111 Date Out 21/06/200 MD Out (m) : 334 TVD Out (m) : 332

BIT DATA

Bit #	OD (in)	MFR	Style	Serial#	Nozzles (/32's)	TFA (in ²)	Dull Condition
2rr1	17.500	Security DBS	XT1C	740844	3x24	1.325	1-1-BU-A -E-I-NO-TD

MOTOR DATA

Run #	OD (in)	MFR	Model	Serial#	Bend	Nzl (/32's)	Avg Dif (psi)	Cum Circ Hrs
1	9.625	SSDS	SperryDrill	963212	1.50°		32	15.50

COMPONENT DATA

Item #	Description	Serial #	OD (In)	ID (In)	Gauge (In)	Weight (lbs/ft)	Top Con	Length (m)	Bit - Center Blade (m)
1	17½" Milled Tooth Bit	740844	17.500		17.500	795.63	P 7-5/8" Reg	0.42	
2	9-5/8" SperryDrill Lobe 6/7 - 5.0 stg	963212	9.625	6.135	17.250	147.21	B 7-5/8" Reg	9.59	1.45
3	Non-Mag Cross Over Sub	A-545	9.500	3.000		217.48	B 6-5/8" Reg	1.22	
4	8" RLL w/DGR + EWR	DM1515HGVR	8.000	1.920		161.44	B 6-5/8" Reg	6.99	
5	8" MPT w/Dir	DM01535KF8	8.000	1.920		161.44	B 6-5/8" Reg	6.27	
6	8" Float Sub	A-317	8.000	3.000		147.22	B 6-5/8" Reg	0.70	
7	3 x 8" Drill collars		8.000	2.810		150.00	B 6-5/8" Reg	28.44	
8	Drilling Jar	DAH01965	8.250	3.000		158.09	B 6-5/8" Reg	9.69	
9	2 x 8" Drill collars		8.000	2.810		150.00	B 6-5/8" Reg	18.48	
10	Cross Over Sub	144-200	6.500	2.810		91.95	B 4-1/2" IF	1.08	
11	15 x 5"HWDP		5.000	3.000		49.30	B 4-1/2" IF	136.39	
								219.27	

Parameter	Min	Max	Ave	Activity	Hrs	BHA Weight (lb)	Drill String	OD(In)	Len(m)
WOB (klbs) :	5	10	8	Drilling :	5.50	in Air (Total) :	DP(S)-NC50(XH)-19.50#	5.000	115
RPM (rpm) :	50	50	50	Reaming :	1.00	in Mud (Total) :			
Flow (gpm) :	800	810	806	Circ-Other :	1.50	in Air (Bel Jars) :			
SPP (psi) :	1050	1450	1219	Total :	8.00	in Mud (Bel Jars) :			

PERFORMANCE

	In	Out	Distance (m)	ROP (m/hr)	Build (°/30m)	Turn (°/30m)	DLS (°/30m)
Inclination (deg)	0.56	11.65	Oriented :	70.00	30		
Azimuth (deg)	9.90	240.62	Rotated :	152.50	45		
			Total :	222.50	40	1.49	0.00
							1.62

COMMENTS

Drilled to 334m. Wiper trip to shoe. Run to bottom. POOH to run 13-3/8" casing

OBJECTIVES:

Rotary drill from the 20" shoe to 200m MD then kck off, nudging the well at 2.2°/30m to 10° inclination on a 231° azimuth by section TD at 334m.

RESULTS:

The 17½" assembly was made up and RIH, with the motor bend set to 1.5° and surface tested. Tagged top of cement at 102m and drilled out the shoetrack, then continued to drill in rotary to kick-off point at 192m (8m higher than proposal). Set magnetic toolface on 231° and commenced sliding to nudge the well to 10° inclination as per wellplan. With a flow rate of 800 gpm there were no problems achieving build.

The assembly showed a dogleg capability of 6°/30m throughout the run.. It built at +/- 0.2°/30m in rotary, with a right hand walk tendency of 0.4°/30m.

Drilled to section TD at 334m, circulated bottoms up and POQH. Some overpull was seen and the hole was backreamed from 325m to 230m. RIH assembly to bottom then pulled straight to run 13 3/8" casing.

On surface the bit was found to be heavily balled up. All BHA components in good condition.

Total Drig Hours: 4.0

Total Circ. Hours: 6.6

Total BRT Hours: 14.5

Sperry-Sun DRILLING SERVICES

BHA Report

Client : OMV Australia Pty. Ltd.
Well Name : Patricia #2
Block : Vic/L21
Location : Gippsland Sub Basin
Rig : Ocean Bounty
Job # : AU-DD-02022

BHA# 3

BHA# 3 : Date In 23/06/200 MD In (m) : 334 TVD In (m) : 332 Date Out 25/06/200 MD Out (m): 884 TVD Out (m): 701

BIT DATA

Bit #	OD (in)	MFR	Style	Serial#	Nozzles (/32's)	TFA (in ²)	Dull Condition
3	12.250	Reed	MHT13GC	NL5007	3x15, 1x24	0.960	1-1-WT-G-E-I-NO-TD

MOTOR DATA

Run #	OD (in)	MFR	Model	Serial#	Bend	Nzl (/32's)	Avg Dif (psi)	Cum Circ Hrs
2	8.000	SSDS	SperryDrill	800052	1.50°		65	79.00

COMPONENT DATA

Item #	Description	Serial #	OD (in)	ID (in)	Gauge (in)	Weight (lbs/ft)	Top Con	Length (m)	Bit - Center Blade (m)
1	12-1/4" Milled Tooth Bit	NL5007	12.250		12.250	380.68	P 6-5/8" Reg	0.34	
2	8" SperryDrill Lobe 4/5 - 5.3 stg	800052	8.000	5.000	12.125	104.39	B 6-5/8" Reg	9.53	1.16
3	8" RLL w/DGR + EWR	DM1515HGVR	8.000	1.920		161.44	B 6-5/8" Reg	6.99	
4	8" MPT w/Dir	DM01535KF8	8.000	1.920		161.44	B 6-5/8" Reg	6.27	
5	8" Float Sub	A-317	8.000	3.000		147.22	B 6-5/8" Reg	0.70	
6	Cross Over Sub	144-200	6.500	2.810		91.95	B 4-1/2" IF	1.08	
7	3 x 5"HWDP		5.000	3.000		49.30	B 4-1/2" IF	26.43	
8	Drilling Jar	00211	6.750	2.750		101.71	B 4-1/2" IF	9.22	
9	3 x 5"HWDP		5.000	3.000		49.30	B 4-1/2" IF	27.51	
10	30x DP (S) - NC50(XH) - 19.50#		5.000	4.276		22.60	B 4-1/2" IF	289.88	
11	30x HWDP		5.000	3.000		49.30	B 4-1/2" IF	277.42	
									655.37

Parameter	Min	Max	Ave
WOB (klbs) :	8	30	16
RPM (rpm) :	50	60	53
Flow (gpm) :	810	880	854
SPP (psi) :	1350	2150	1770

Activity	Hrs
Drilling :	39.25
Reaming :	2.00
Circ-Other :	2.75
Total :	44.00

BHA Weight (lb)	
in Air (Total) :	89542
in Mud (Total) :	77026
in Air (Bel Jars) :	15651
in Mud (Bel Jars) :	13463

Drill String	OD(in)	Len (m)
DP(S)-NC50(XH)-19.50#	5.000	229

PERFORMANCE

	In	Out
Inclination (deg)	11.65	89.12
Azimuth (deg)	240.62	229.97

	Distance (m)	ROP (m/hr)	Buidl (°/30m)	Turn (°/30m)	DLS (°/30m)
Oriented :	251.00	11			
Rotated :	299.00	17			
Total :	550.00	14	4.23	-0.58	4.24

COMMENTS

OBJECTIVES:

Drill to 88.28° at 701.22 TVD to land 9-5/8" casing, adjusting as per geology departments requests.

Sperry-Sun

DRILLING SERVICES

BHA Report

Client : OMV Australia Pty. Ltd.
 Well Name : Patricia #2
 Block : Vic/L21
 Location : Gippsland Sub Basin
 Rig : Ocean Bounty
 Job # : AU-DD-02022

BHA# 4

BHA# 4 : Date In :29/06/200 MD In (m) : 884 TVD In (m) : 701 Date Cur:30/06/2002 MD Cur (m): 1385 TVD Cur (m): 701

BIT DATA

Bit #	OD (in)	MFR	Style	Serial#	Nozzles (/32's)	TFA (In ²)	Dull Condition
4	8.500	Reed	EHP41ALKDH	M25485	3x14	0.451	1-2-ER-G -E-I-WT-TD

MOTOR DATA

Run #	OD (in)	MFR	Model	Serial#	Bend	Nzl (/32's)	Avg Dif (psi)	Cum Circ Hrs
3	6.750	SSDS	SperryDrill	675188	1.50°		50	97.25

COMPONENT DATA

Item #	Description	Serial #	OD (In)	ID (In)	Gauge (In)	Weight (lbs/ft)	Top Con	Length (m)	Bit - Center Blada (m)
1	8 1/2" Tricone Insert Bit	M25485	8.500		8.500	172.25	P 4-1/2" Reg	0.26	
2	6-3/4" SperryDrill Lobe 6/7 - 5.0 stg	675188	6.750	4.498	8.250	67.81	B 4-1/2" IF	7.49	1.02
3	6-3/4" MPT w/Dir	DM01540M6	6.750	2.810		100.82	B 4-1/2" IF	2.73	
4	6-3/4" RLL w/DGR + EWR + CNO	DM1537HNRL	6.750	2.810	8.188	100.82	B 4-1/2" IF	13.21	
5	Pulser	DM01528K6	6.500	2.810		91.95	B 4-1/2" IF	3.47	
6	6 3/4" Float Sub	A-225	6.500	2.810		91.95	B 4-1/2" IF	0.70	
7	3 x 5"HWDP		5.000	3.000		49.30	B 4-1/2" IF	26.43	
8	Drilling Jar	DAH2122	6.500	2.750		92.85	B 4-1/2" IF	9.64	
9	3 x 5"HWDP		5.000	3.000		49.30	B 4-1/2" IF	27.51	
10	93x DP (S) - NC50(XH) - 19.50#		5.000	4.276		22.60	B 4-1/2" IF	897.93	
11	30x HWDP		5.000	3.000		49.30	B 4-1/2" IF	277.42	
								1266.79	

Parameter	Min	Max	Ave	Activity	Hrs	BHA Weight (lb)	Drill String	OD(In)	Len(m)
WOB (klbs) :	8	50	13	Drilling :	22.00	In Air (Total) : 131455			
RPM (rpm) :	55	60	60	Reaming :	2.75	in Mud (Total) : 112746			
Flow (gpm) :	550	580	575	Circ-Other :	2.25	In Air (Bel Jars) : 12619			
SPP (psi) :	1325	2000	1724	Total :	27.00	in Mud (Bel Jars) : 10823			

PERFORMANCE

	In	Out	Distance (m)	ROP (m/hr)	Build (°/30m)	Turn (°/30m)	DLS (°/30m)
Inclination (deg)	89.12	90.46	Oriented :	43.00	8		1.50
Azimuth (deg)	229.97	234.02	Rotated :	458.00	24	1.00	0.50
			Total :	501.00	23	0.08	0.24
						0.24	0.26

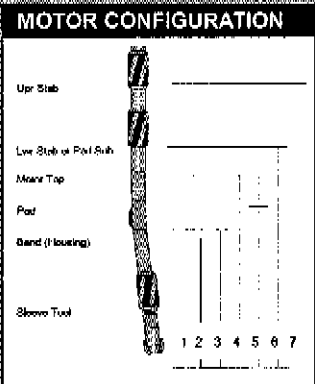
COMMENTS

P/U 6 3/4" Motor + LWD

OBJECTIVES:

Drill 8-1/2" lateral section as per geology and obtain a minimum of 400 metres of pay up to 500 metres.

Motor Serial # : 963212 Job # : AU-DD-02022
 Directional Driller(s) : Frank van Noord, Ian Cobban Client : OMV Australia Pty. Ltd.
 Location : Gippsland Sub Basin Rig : Ocean Bounty
 Well Name : Patricia #2 Bit Run # : 2r1 BHA # : 2 Motor Run # : 1
 Depth In/Out : 111 / 334 m Date In/Out : 21/06/2002 / 21/06/2002 Hole Size : 17,500 in
 Application Details : Kickoff



From Bit (m)	Component	Type	Diam In/Out (in)
1	Sleeve Stab/Pad	Yes	17.250 17.250
2	Bent Housing	Yes	
3	Housing Tool Used	Yes	
4	Stator Elastomer	Nitrile	
5	Bent Sub / 2nd Bent Hsg	No	
6	Lower String Stab	No	
7	Upper String Stab	No	

Additional Features :

Flex Collar : No	Short Brg Pack : No	Rtr Noz / Size : /32's	Pick Up Sub : No No
Brg Cfg (Off/On) : 3/3	Lobe Cfg : 6/7	BHA OD/ID : 9,500 / 3,000 in	Bit Box Protr : Yes Yes

MOTOR RUN DATA

Max Dogleg While Rotating : 4.36 /30m	RPM : 50	Motor Stalled : No	Prev Job/Well Hrs : 7.50
Max Dogleg Overpulled In : 4.36 /30m	Force : lbf	Float Valve : Yes	Drilling Hrs : 5.50
Max Dogleg Pushed Through : 4.36 /30m	Force : lbf	DP Filter : No	Circ Hrs : 1.50
Hole Azimuth Start / End : 9.90° / 240.62°	Inc Start / End : 0.68° / 11.65°		Reaming Hrs : 1.00
Interval Oriented / Rot. : 70 / 153 m	Directional Perf Ori / Rot : / /30m		Total Hrs This Run : 8.00
Jarring Occured : No			New Cumulative Hrs : 15.50

	Diff Press (psi)	Str RPM	Rotn Torque (ft-lbs)	Drag Up/Dn (lbf)	WOB (klbs)	ROP Oriented (m/hr)	ROP Rotated (m/hr)
Avg :	32	50	2500	1000 / 1000	8	30	45
Max :	50	50	3000	2000 / 2000	10	70	120

PRE-RUN TESTS

Motor Tested Pre-Run : Yes with : 2 Collars, Bit
 Dump Sub Operating : N/A Brg Play : 3.0 mm
 Flow 1 : 900 gpm Pressure 1 : 700 psi
 Flow 2 : gpm Pressure 2 : psi
 Driveshaft Rotation Observed : Yes
 Bearing Leakage Observed : Yes

POST-RUN TESTS

Motor Tested Post-Run : No with :
 Dump Sub Operating : N/A Brg Play : 3.0 mm
 Flow 1 : gpm Pressure 1 : psi
 Flow 2 : gpm Pressure 2 : psi
 Driveshaft Rotation Observed : Yes
 Bearing Leakage Observed : Yes
 Driveshaft Rotated to Drain Mud : Yes
 Fluid Flushed : No Fluid Used :

MUD DATA

Base : Water Additives : Mud Wt : 1.03 sg SPP Start/End : 1050 / 1450 psi
 % Oil/Water : / % Solids : % Sand : PV : 1 cp YP : 1.0 lbf/100ft² pH :
 DH Temp Avg/Max : / FlowRate Avg/Max : 808 / 810 gpm Chloride Content : ppm
 Principle Formation Name(s) : Seabed/Gippsland LS Lithology :

BIT DATA

Make : Security DBS Type : XT1C Serial # : 740844	Dull Grade	1	2	3	4	5	6	7	8
Pre Existing Hours From Other Wells : 6.5	In	1	1	BU	A	E	I	NO	TD
Prev Drilling Hrs : 0.00 Prev Reaming Hrs : 0.00 No of Runs This Bit : 1	Out	1	1	BU	A	E	I	NO	TD
Jet Sizes (/32's) : 3x24 TFA : 1.325 in ² Gage Length : in									

PERFORMANCE COMMENTS

Problem Perceived : No Problem Date : Service Interrupt : No Service Interrupt Hrs :
 Performance Motor : Yes Tandem Motor : No LIH : No PPR Ref # :

Customer Representative's Signature (optional) : Date:

Motor Serial # : 800052 Job # : AU-DD-02022
 Directional Driller(s) : Frank van Noord, Ian Cobban Client : OMV Australia Pty. Ltd.
 Location : Gippsland Sub Basin Rig : Ocean Bounty
 Well Name : Patricia #2 Bit Run # : 3 BHA # : 3 Motor Run # : 2
 Depth In/Out : 334 / 884 m Date In/Out : 23/06/2002 / 25/06/2002 Hole Size : 12.250 in
 Application Details : Medium Radius

MOTOR CONFIGURATION

	From Bit (m)	Component	Type	Diam In/Out (in)
1	1.16	Sleeve Stab/Pad	Yes	12.125 12.125
2	3.13	Bent Housing	Yes	
3	3.15	Housing Tool Used	Yes	
4	9.87	Stator Elastomer	Nitrile	
5		Bent Sub / 2nd Bent Hsg	No	
6		Lower String Stab	No	
7		Upper String Stab	No	

Additional Features :	Arr Ret
Flex Collar : No Short Brg Pack : No Rtr Noz / Size : /32's	Pick Up Sub : Yes Yes
Brg Cfg (Off/On) : 3/3 Lobe Cfg : 4/5 BHA OD/ID : 8.000 / 1.920 in	Bit Box Protr : Yes Yes

MOTOR RUN DATA

Max Dogleg While Rotating : 8.05 /30m	RPM : 50	Motor Stalled : Yes	Prev Job/Well Hrs : 35.00
Max Dogleg Overpulled In : 8.05 /30m	Force : 230000 lbf	Float Valve : Yes	Drilling Hrs : 39.25
Max Dogleg Pushed Through : 8.05 /30m	Force : 180000 lbf	DP Filter : No	Circ Hrs : 2.75
Hole Azimuth Start / End : 240.62° / 229.97°	Inc Start / End : 11.65° / 89.12°		Reaming Hrs : 2.00
Interval Oriented / Rot. : 251 / 299 m	Directional Perf Ori / Rot : / /30m		Total Hrs This Run : 44.00
Jarring Occurred : No			New Cumulative Hrs : 79.00

	Diff Press (psi)	Str RPM	Rotn Torque (ft-lbs)	Drag Up/Dn (lbf)	WOB (kibs)	ROP Oriented (m/hr)	ROP Rotated (m/hr)
Avg :	65	53	3357	10000 / 10000	16	11	17
Max :	100	60	4500	30000 / 20000	30	30	70

PRE-RUN TESTS

Motor Tested Pre-Run : Yes with : 0 Collars, Bit
 Dump Sub Operating : N/A Brg Play : 2.0 mm
 Flow 1 : 400 gpm Pressure 1 : 600 psi
 Flow 2 : gpm Pressure 2 : psi
 Driveshaft Rotation Observed : Yes
 Bearing Leakage Observed : Yes

POST-RUN TESTS

Motor Tested Post-Run : No with :
 Dump Sub Operating : N/A Brg Play : 2.0 mm
 Flow 1 : gpm Pressure 1 : psi
 Flow 2 : gpm Pressure 2 : psi
 Driveshaft Rotation Observed : Yes
 Bearing Leakage Observed : Yes
 Driveshaft Rotated to Drain Mud : Yes
 Fluid Flushed : No Fluid Used :

MUD DATA

Base : Water Additives : Mud Wt : 1.12 sg SPP Start/End : 1450 / 2150 psi
 % Oil/Water : 3.00 / 89.90 % Solids : 7.00 % Sand : 0.10 PV : 14 cp YP : 90.0 lbf/100R² pH : 8.7
 DH Temp Avg/Max : / FlowRate Avg/Max : 854 / 880 gpm Chloride Content : 45000 ppm
 Principle Formation Name(s) : Seabed/Gippsland LS, Lakes Entrance FM, Top Gumard, SG2 T Lithology : Sand

BIT DATA

Make : Reed Type : MHT13GC Serial # : NL5007	Dull Grade	1	2	3	4	5	6	7	8
Pre Existing Hours From Other Wells :	In								NEW
Prev Drilling Hrs : 0.00 Prev Reaming Hrs : 0.00 No of Runs This Bit : 1	Out	1	1	WT	G	E	I	NO	TD
Jet Sizes (/32's) : 3x15, 1x24 TFA : 0.960 in ² Gage Length : 1.000 in									

PERFORMANCE COMMENTS

Problem Perceived : No Problem Date : Service Interrupt : No Service Interrupt Hrs :
 Performance Motor : Yes Tandem Motor : No LIH : No PPR Ref # :

Customer Representative's Signature (optional) : Date:

Motor Serial # : 675188 Job # : AU-DD-02022
 Directional Driller(s) : Frank van Noord, S. Wainwright Client : OMV Australia Pty. Ltd.
 Location : Gippsland Sub Basin Rig : Ocean Bounty
 Well Name : Patricia #2 Bit Run # : 4 BHA # : 4 Motor Run # : 3
 Depth In/Out : 884 / 1385 m Date In/Out : 26/06/2002 / 30/06/2002 Hole Size : 8.500 in
 Application Details : Horizontal

MOTOR CONFIGURATION

	From Bit (m)	Component	Type	Diam In/Out (in)			
	1	1.02	Sleeve Stab/Pad	Yes	Stab: 4.10"		
	2	2.00	Bent Housing	Yes	Adjustable: 1.50" bend		
	3		Housing Tool Used	No			
	4	7.75	Stator Elastomer				
	5		Bent Sub / 2nd Bent Hsg	No			
	6		Lower String Stab	No			
7		Upper String Stab	No				
Additional Features :				Arr Ret			
Flex Collar	: No	Short Brg Pack	: No	Rtr Noz / Size	: /32's	Pick Up Sub	: Yes Yes
Brg Cfg (Off/On)	: 3/3	Lobe Cfg	: 6/7	BHA OD/ID	: 6.750 / 2.810 in	Bit Box Protr	: Yes No

MOTOR RUN DATA

Max Dogleg While Rotating	: 8.00 %30m	RPM	: 50	Motor Stalled	: Yes	Prev Job/Well Hrs	: 70.25
Max Dogleg Overpulled In	: %30m	Force	: lbf	Float Valve	: Yes	Drilling Hrs	: 22.00
Max Dogleg Pushed Through	: %30m	Force	: lbf	DP Filter	: No	Circ Hrs	: 2.25
Hole Azimuth Start / End	: 229.97° / 234.02°	Inc Start / End	: 89.12° / 90.46°			Reaming Hrs	: 2.75
Interval Oriented / Rot.	: 43 / 458 m	Directional Perf Ori / Rot	: 1.50 / 1.12 %30m			Total Hrs This Run	: 27.00
Jarring Occured	: No					New Cumulative Hrs	: 97.25
	Diff Press (psi)	Str RPM	Rotn Torque (ft-lbs)	Drag Up/Dn (lbf)	WOB (klbs)	ROP Oriented (m/hr)	ROP Rotated (m/hr)
Avg :	50	60	6375	5000 / 5000	13	8	24
Max :	50	60	7500	10000 / 10000	50	45	65

PRE-RUN TESTS

Motor Tested Pre-Run : Yes with : 0 Collars, Bit, MWD
 Dump Sub Operating : N/A Brg Play : 4.0 mm
 Flow 1 : 350 gpm Pressure 1 : 600 psi
 Flow 2 : gpm Pressure 2 : psi
 Driveshaft Rotation Observed : Yes
 Bearing Leakage Observed : Yes

POST-RUN TESTS

Motor Tested Post-Run : No with :
 Dump Sub Operating : N/A Brg Play : 5.0 mm
 Flow 1 : gpm Pressure 1 : psi
 Flow 2 : gpm Pressure 2 : psi
 Driveshaft Rotation Observed : Yes
 Bearing Leakage Observed : No
 Driveshaft Rotated to Drain Mud : Yes
 Fluid Flushed : Yes Fluid Used : Water

MUD DATA

Base : Water Additives : Mud Wt : 1.12 sg SPP Start/End : 1400 / 2000 psi
 % Oil/Water : / % Solids : 8.00 % Sand : 0.25 PV : 11 cp YP : 32.0 lb/100ft² pH : 9.5
 DH Temp Avg/Max : / FlowRate Avg/Max : 575 / 580 gpm Chloride Content : 72000 ppm
 Principle Formation Name(s) : SG2 Top Porosity, SG3 Top going down, SG4 Top going down... Lithology : Sand

BIT DATA

Make : Reed Type : EHP41ALKDH Serial # : M25485	Dull Grade	1	2	3	4	5	6	7	8
Pre Existing Hours From Other Wells : 0	In								NEW
Prev Drilling Hrs : 0.00 Prev Reaming Hrs : 0.00 No of Runs This Bit : 1	Out	1	2	ER	G	E	I	WT	TD
Jet Sizes (/32's) : 3x14 TFA : 0.451 in ² Gage Length : in									

PERFORMANCE COMMENTS

Problem Perceived : No Problem Date : Service Interrupt : No Service Interrupt Hrs :
 Performance Motor : Yes Tandem Motor : No LIH : No PPR Ref # :

Customer Representative's Signature (optional) : _____ Date: _____

Sperry-Sun DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
Well Name : Patricia #2
Block : Vic/L21
Location : Gippsland Sub Basin
Rig : Ocean Bounty
Job # : AU-DD-02022

CURRENT STATUS Report # 1 06/06/2002

Total Depth (m) :	78	Casing Depth (m) :	Operator Reps :
Drilled last 24 hrs (m) :	0	Casing Diameter (in) :	SSDS Reps :
Hole Size (in) :		Casing ID (in) :	

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
75.98	0.00	0.00	75.98	0.00	N00.00E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)
Seabed/Gippsland LS	77.50	77.50

BHA SUMMARY

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft ²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Saltwater	1.03	26	1	1.0	1.0 / 1.0					

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:00	24.00	77.50		Tools on standby

COMMENTS

sperry-sun

DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
 Well Name : Patricia #2
 Block : Vic/L21
 Location : Gippsland Sub Basin
 Rig : Ocean Bounty
 Job # : AU-DD-02022

CURRENT STATUS Report # 2 07/06/2002

Total Depth (m) :	78	Casing Depth (m) :		Operator Reqs :	
Drilled last 24 hrs (m) :	0	Casing Diameter (in) :		SSDS Reqs :	
Hole Size (in) :		Casing ID (in) :			

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
75.98	0.00	0.00	75.98	0.00	N00.00E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)
Seabed/Gippsland LS	77.50	77.50

BHA SUMMARY

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft ²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Saltwater	1.03	26	1	1.0	1.0 / 1.0					

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:00	24.00	77.50		Tools on standby

COMMENTS

sperry-sun

DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
 Well Name : Patricia #2
 Block : Vic/L21
 Location : Gippsland Sub Basin
 Rig : Ocean Bounty
 Job # : AU-DD-02022

CURRENT STATUS Report # 3 08/06/2002

Total Depth (m) :	78	Casing Depth (m) :		Operator Reps :	
Drilled last 24 hrs (m) :	0	Casing Diameter (in) :		SSDS Reps :	
Hole Size (in) :		Casing ID (in) :			

LAST SURVEY

LAST FORMATION TOP

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction	Formation Name	MD Top (m)	TVD Top (m)
75.98	0.00	0.00	75.98	0.00	N00.00E	Seabed/Gippsland LS	77.50	77.50

BHA SUMMARY

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft ²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Saltwater	1.03	26	1	1.0	1.0 / 1.0					

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:00	24.00	77.50		Tools on standby

COMMENTS

sperry-sun

DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
 Well Name : Patricia #2
 Block : Vic/L21
 Location : Gippsland Sub Basin
 Rig : Ocean Bounty
 Job # : AU-DD-02022

CURRENT STATUS Report # 5 10/06/2002

Total Depth (m) :	78	Casing Depth (m) :		Operator Reqs :	
Drilled last 24 hrs (m) :	0	Casing Diameter (in) :		SSDS Reqs :	
Hole Size (in) :		Casing ID (in) :			

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
75.98	0.00	0.00	75.98	0.00	N00.00E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)
Seabed/Gippsland LS	77.50	77.50

BHA SUMMARY

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft ²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Saltwater	1.03	26	1	1.0	1.0 / 1.0					

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:00	24.00	77.50		Tools on standby

COMMENTS

sperry-sun

DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
 Well Name : Patricia #2
 Block : Vic/L21
 Location : Gippsland Sub Basin
 Rig : Ocean Bounty
 Job # : AU-DD-02022

CURRENT STATUS Report # 6 11/06/2002

Total Depth (m) :	78	Casing Depth (m) :		Operator Reqs :	
Drilled last 24 hrs (m) :	0	Casing Diameter (in) :		SSDS Reqs :	
Hole Size (in) :		Casing ID (in) :			

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
75.98	0.00	0.00	75.98	0.00	N00.00E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)
Seabed/Gippsland LS	77.50	77.50

BHA SUMMARY

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MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft ²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Saltwater	1.03	26	1	1.0	1.0 / 1.0					

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:00	24.00	77.50		Tools on standby

COMMENTS

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sperry-sun

DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
Well Name : Patricia #2
Block : Vic/L21
Location : Gippsland Sub Basin
Rig : Ocean Bounty
Job # : AU-DD-02022

CURRENT STATUS Report # 7 12/06/2002

Total Depth (m) :	78	Casing Depth (m) :		Operator Reqs :	
Drilled last 24 hrs (m) :	0	Casing Diameter (in) :		SSDS Reqs :	
Hole Size (in) :		Casing ID (in) :			

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
75.98	0.00	0.00	75.98	0.00	N00.00E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)
Seabed/Gippsland LS	77.50	77.50

BHA SUMMARY

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft ²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Saltwater	1.03	26	1	1.0	1.0 / 1.0					

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:00	24.00	77.50		Tools on standby

COMMENTS

Sperry-Sun

DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
 Well Name : Patricia #2
 Block : Vic/L21
 Location : Gippsland Sub Basin
 Rig : Ocean Bounty
 Job # : AU-DD-02022

CURRENT STATUS Report # 8 13/06/2002

Total Depth (m) :	78	Casing Depth (m) :		Operator Reqs :	
Drilled last 24 hrs (m) :	0	Casing Diameter (in) :		SSDS Reqs :	
Hole Size (in) :		Casing ID (in) :			

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
75.98	0.00	0.00	75.98	0.00	N00.00E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)
Seabed/Gippsland LS	77.50	77.50

BHA SUMMARY

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MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft ²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Saltwater	1.03	26	1	1.0	1.0 / 1.0					

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:00	24.00	77.50		Tools on standby

COMMENTS

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sperry-sun

DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
 Well Name : Patricia #2
 Block : Vic/L21
 Location : Gippsland Sub Basin
 Rig : Ocean Bounty
 Job # : AU-DD-02022

CURRENT STATUS Report # 9 14/06/2002

Total Depth (m) :	78	Casing Depth (m) :		Operator Reqs :	
Drilled last 24 hrs (m) :	0	Casing Diameter (in) :		SSDS Reqs :	
Hole Size (in) :		Casing ID (in) :			

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
75.98	0.00	0.00	75.98	0.00	N00.00E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)
Seabed/Gippsland LS	77.50	77.50

BHA SUMMARY

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft ²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Saltwater	1.03	26	1	1.0	1.0 / 1.0					

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:00	24.00	77.50		Tools on standby

COMMENTS

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
Well Name : Patricia #2
Block : Vic/L21
Location : Gippsland Sub Basin
Rig : Ocean Bounty
Job # : AU-DD-02022

CURRENT STATUS Report # 10 15/08/2002

Total Depth (m) : 78	Casing Depth (m) :	Operator Reqs :
Drilled last 24 hrs (m) : 0	Casing Diameter (in) :	SSDS Reqs :
Hole Size (in) :	Casing ID (in) :	

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
75.98	0.00	0.00	75.98	0.00	N00.00E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)
Seabed/Gippsland LS	77.50	77.50

BHA SUMMARY

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MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft ²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Saltwater	1.03	26	1	1.0	1.0 / 1.0					

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:00	24.00	77.50		Tools on standby

COMMENTS

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Daily Drilling Report

Client : OMV Australia Pty. Ltd.
 Well Name : Patricia #2
 Block : Vic/L21
 Location : Gippsland Sub Basin
 Rig : Ocean Bounty
 Job # : AU-DD-02022

CURRENT STATUS Report # 11 16/06/2002

Total Depth (m) :	78	Casing Depth (m) :		Operator Reqs :	
Drilled last 24 hrs (m) :	0	Casing Diameter (in) :		SSDS Reqs :	
Hole Size (in) :		Casing ID (in) :			

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
75.98	0.00	0.00	75.98	0.00	N00.00E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)
Seabed/Gippsland L5	77.50	77.50

BHA SUMMARY

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MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Saltwater	1.03	26	1	1.0	1.0 / 1.0					

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:00	24.00	77.50		Tools on standby

COMMENTS

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sperry-sun

DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
 Well Name : Patricia #2
 Block : Vic/L21
 Location : Gippsland Sub Basin
 Rig : Ocean Bounty
 Job # : AU-DD-02022

CURRENT STATUS Report # 12 17/06/2002

Total Depth (m) :	78	Casing Depth (m) :		Operator Reps :	Guy Howard, John Kenrick
Drilled last 24 hrs (m) :	0	Casing Diameter (in) :		SSDS Reps :	Frank van Noord (1), Ian Cobban (1)
Hole Size (in) :		Casing ID (in) :			

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
75.98	0.00	0.00	75.98	0.00	N00.00E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)
Seabed/Gippsland LS	77.50	77.50

BHA SUMMARY

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft ²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Saltwater	1.03	26	1	1.0	1.0 / 1.0					

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:00	24.00	77.50		Tools on standby, SSDS personnel leave Perth and arrive Melbourne

COMMENTS

sperry-sun

DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
 Well Name : Patricia #2
 Block : Vic/L21
 Location : Gippsland Sub Basin
 Rig : Ocoan Bounty
 Job # : AU-DD-02022

CURRENT STATUS Report # 13 18/06/2002

Total Depth (m) :	78	Casing Depth (m) :		Operator Reps :	Guy Howard, John Kenrick
Drilled last 24 hrs (m) :	0	Casing Diameter (in) :		SSDS Reps :	Frank van Noord (2), Ian Cobban (2)
Hole Size (in) :		Casing ID (in) :			

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
75.98	0.00	0.00	75.98	0.00	N00.00E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)
Seabed/Gippsland LS	77.50	77.50

BHA SUMMARY

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MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lb/100ft ²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Saltwater	1.03	26	1	1.0	1.0 / 1.0					

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	06:30	6.50	77.50		WOW.Tools on standby, SSDS personnel depart for Ocean Bounty
06:30	00:00	17.50	77.50		WOW.Fly to rig and check equipment

COMMENTS

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sperry-sun

DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
 Well Name : Patricia #2
 Block : Vic/L21
 Location : Gippsland Sub Basin
 Rig : Ocean Bounty
 Job # : AU-DD-02022

CURRENT STATUS Report # 14 19/06/2002

Total Depth (m) :	78	Casing Depth (m) :		Operator Reprs :	Guy Howard, John Kenrick
Drilled last 24 hrs (m) :	0	Casing Diameter (in) :		SSDS Reprs :	Frank van Noord (3), Ian Cobban (3)
Hole Size (in) :		Casing ID (in) :			

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
75.98	0.00	0.00	75.98	0.00	N00.00E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)
Seabed/Gippsland LS	77.50	77.50

BHA SUMMARY

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft ²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Saltwater	1.03	26	1	1.0	1.0 / 1.0					

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	04:30	4.50	77.50		ROV / Cameron operations
04:30	12:00	7.50	77.50		Anchor handling operations
12:00	19:30	7.50	77.50		ROV / Cameron operations
19:30	00:00	4.50	77.50		Anchor handling operations

COMMENTS

sperry-sun

DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
 Well Name : Patricia #2
 Block : Vic/L21
 Location : Gippsland Sub Basin
 Rig : Ocean Bounty
 Job # : AU-DD-02022

CURRENT STATUS Report # 15 20/06/2002

Total Depth (m) : 111	Casing Depth (m) : 111.50	Operator Reps : Guy Howard, John Kenrick
Drilled last 24 hrs (m) : 34	Casing Diameter (in) : 30.000	SSDS Reps : Frank van Noord (4), Ian Cobban (4)
Hole Size (in) : 26.000	Casing ID (in) :	

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
75.98	0.00	0.00	75.98	0.00	N00.00E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)
Seabed/Gippsland LS	77.50	77.50

BHA SUMMARY

BHA 1: 62.24 m; Bit #1rr1 (1. hrs), Other, Sub, 3 x DC, Sub, 3 x DC, Sub

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft ²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Saltwater	1.03	26	1	1.0	1.0 / 1.0					

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:30	0.50	77.50		Continue anchor handling operations
00:30	03:45	3.25	77.50		Rig under tow to Patricia-2
03:45	12:00	8.25	77.50		Anchor handling operations
12:00	14:45	2.75	77.50		MU 30" x 20" Casing flow test joint
14:45	15:00	0.25	77.50	1	MU 26" x 36" BHA # 1
15:00	16:00	1.00	77.50	1	Trip In and tag sea bed @ 77.5 m.
16:00	17:00	1.00	111.50	1	Drilling 26" hole with 36" hole opener from 77.5 to 111.5 m.
17:00	17:30	0.50	111.50	1	Circulate hole 1-1/2 times, drop totco survey 1/4"
17:30	18:30	1.00	111.50	1	Trip Out (at Surface) to run 13-3/8" casing
18:30	20:00	1.50	111.50		MU 30" R/T stinger, attempt to stab casing
20:00	20:30	0.50	111.50		Move rig to aid stab in.
20:30	22:30	2.00	111.50		Continue RIH with casing then cement same
22:30	00:00	1.50	111.50		Release R/T, POOH, L/D 30" R/T slide entry TIW

COMMENTS

sperry-sun

DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
 Well Name : Patricia #2
 Block : Vic/L21
 Location : Gippsland Sub Basin
 Rig : Ocean Bounty
 Job # : AU-DD-02022

CURRENT STATUS Report # 16 . 21/06/2002

Total Depth (m) : 334	Casing Depth (m) : 326.47	Operator Reqs : Guy Howard, John Kenrick
Drilled last 24 hrs (m) : 222	Casing Diameter (in) : 13.375	SSDS Reqs : Frank van Noord (5), Ian Cobban (5)
Hole Size (in) : 17.500	Casing ID (in) : 12.415	

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
314.81	11.75	244.06	313.70	13.48	S73.31W

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)
Seabed/Gippsland LS	77.50	77.50

BHA SUMMARY

BHA 2: 219.27 m; Bit #2r1 (6.5 hrs), PDM #1 (15.5 hrs), Sub, MWD, MWD, Sub, 3 x DC, Jar, 2 x DC, Sub, HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft ²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Saltwater	1.03	26	1	1.0	1.0 / 1.0					

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:30	0.50	111.50		Make up 17½" BHA, upload LWD
00:30	02:30	2.00	111.50	2	Rih BHA, pick up jars, ROV observe stab in
02:30	03:30	1.00	111.50	2	Reaming / Washing
03:30	09:00	5.50	334.00	2	Drill 17½" hole from 111.5m to 334m
09:00	10:00	1.00	334.00	2	Circulate, work pipe. Sweep 100 bbls hi-vis, spot 30 bbls PHG
10:00	11:30	1.50	334.00	2	Wiper trip to shoe (Backream 325m - 230m)
11:30	12:30	1.00	334.00	2	RIH from 20" shoe, no fill
12:30	13:00	0.50	334.00	2	Circulate, sweep hole w/seawater & displace w/PHG, increase flow to 1000 gpm
13:00	15:00	2.00	334.00	2	Trip Out (at Surface) to run casing, download LWD, no drag.
15:00	18:30	3.50	334.00		Hold JSA, Rig up and run 13-3/8" casing
18:30	00:00	5.50	334.00		P/U wellhead, M/U plugs & run wellhead + 50 k overpull, test & cement as per prog

COMMENTS

Sperry-Sun DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
Well Name : Patricia #2
Block : Vic/L21
Location : Gippsland Sub Basin
Rig : Ocean Bounty
Job # : AU-DD-02022

CURRENT STATUS Report # 17 - 22/06/2002

Total Depth (m) :	334	Casing Depth (m) :	326.47	Operator Reqs :	Guy Howard, John Kenrick
Drilled last 24 hrs (m) :	0	Casing Diameter (in) :	13.375	SSDS Reqs :	Frank van Noord (6), Ian Cobban (6)
Hole Size (in) :		Casing ID (in) :	12.415		

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
314.81	11.75	244.06	313.70	13.48	S73.31W

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)
Seabed/Gippsland LS	77.50	77.50

BHA SUMMARY

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lb/100ft ²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Saltwater	1.03	26	1	1.0	1.0 / 1.0					

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	01:30	1.50	334.00		Release 18-3/4" running tool. Pooh, lay out same
01:30	02:00	0.50	334.00		Lay out cement head
02:00	05:30	3.50	334.00		Rig up to run SST
05:30	08:30	3.00	334.00		Rih SST & umbilical control line. Land, latch, pressure test same, ok
08:30	11:00	2.50	334.00		Pooh SST running tool & umbilical control line.
11:00	12:00	1.00	334.00		Rig up riser handling equipment to run BOP
12:00	14:00	2.00	334.00		Hold JSA, P/U 2x50'+1x10' Riser & stand in derrick
14:00	15:30	1.50	334.00		Move BOP's to Beams, Nipple up to riser, rig moved 50' off location
15:30	17:00	1.50	334.00		Function test BOP's on Beams
17:00	17:30	0.50	334.00		Run BOP's into splash zone
17:30	18:00	0.50	334.00		Pressure test choke & kill lines
18:00	20:30	2.50	334.00		Pick up slip joint & landing joint & install goosenecks
20:30	21:00	0.50	334.00		Pressure test goosenecks
21:00	23:30	2.50	334.00		Hook up riser tensioners to slip joint
23:30	00:00	0.50	334.00		Land out BOP's, perform 50 k overpull test

COMMENTS

sperry-sun

DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
 Well Name : Patricia #2
 Block : Vic/L21
 Location : Gippsland Sub Basin
 Rig : Ocean Bounty
 Job # : AU-DD-02022

CURRENT STATUS Report # 18 23/06/2002

Total Depth (m) : 404	Casing Depth (m) : 326.47	Operator Reps : Guy Howard, John Kenrick
Drilled last 24 hrs (m) : 70	Casing Diameter (in) : 13.375	SSDS Reps : Frank van Noord (7), Ian Cobban (7)
Hole Size (in) : 12.250	Casing ID (in) : 12.415	

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
382.28	13.44	229.93	379.66	27.37	S64.91W

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)
Seabed/Gippsland LS	77.50	77.50

BHA SUMMARY

BHA 3: 655.37 m: Bit #3 (8.5 hrs), PDM #2 (43.5 hrs), MWD, MWD, Sub, Sub, 3 x HWDP, Jar, 3 x HWDP, 30x DP (S), 30x HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft ²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
KCl/Polymer	1.06	55	10	20.0	8.0 / 10.0	6	9.0	2.50		0.00

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:30	0.50	334.00		Pressure test with connector
00:30	02:00	1.50	334.00		Nipple up landing joint
02:00	02:30	0.50	334.00		Pick up diverter, land & latch
02:30	03:15	0.75	334.00		Rig down riser handling equipment
03:15	04:00	0.75	334.00		Make up cement head and stand in derrick
04:00	05:15	1.25	334.00		Make up 9-5/8" casing hanger running tool & SS plugs, lay out same
05:15	05:45	0.50	334.00		Make up wear bushing running tool on HWDP
05:45	06:15	0.50	334.00		RIH and set wear bushing
06:15	07:00	0.75	334.00		POOH wear bushing running tool and lay out same
07:00	08:00	1.00	334.00		Lay out 17-1/2" bit and 9-5/8" motor
08:00	10:00	2.00	334.00		Make up BHA # 3, 12-1/4" bit, 8" motor, w/bend @1.5° & download LWD
10:00	10:30	0.50	334.00		Service Rig and top drive.
10:30	12:00	1.50	334.00	3	Trip In with BHA # 3
12:00	12:30	0.50	334.00	3	Close diverter bag, flush and check
12:30	13:30	1.00	334.00	3	Trip In BHA #3 above cement
13:30	14:00	0.50	334.00	3	Close upper Annular and test LMRP connector
14:00	14:30	0.50	334.00	3	Trip In and tag top of cement @ 300 m
14:30	16:30	2.00	334.00	3	Drill out cement plugs, cement and 13-3/8" casing shoe
16:30	17:30	1.00	337.00	3	Drilling 12-1/4" hole from 334 to 337m
17:30	18:30	1.00	337.00	3	Perform Leak Off Test
18:30	00:00	5.50	404.00	3	Drilling 12-1/4" hole from 337 to 404m

COMMENTS

sperry-sun DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
Well Name : Patricia #2
Block : Vic/L21
Location : Gippsland Sub Basin
Rig : Ocean Bounty
Job # : AU-DD-02022

CURRENT STATUS Report # 19 24/06/2002

Total Depth (m) :	708	Casing Depth (m) :	326.47	Operator Reqs :	Guy Howard, John Kenrick
Drilled last 24 hrs (m) :	304	Casing Diameter (in) :	13.375	SSDS Reqs :	Frank van Noord (8), Ian Cobban (8)
Hole Size (in) :	12.250	Casing ID (in) :	12.415		

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
691.25	56.22	230.56	637.59	179.54	S52.42W

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)
Seabed/Gippsland LS	77.50	77.50

BHA SUMMARY

BHA 3: 655.37 m; Bit #3 (32.5 hrs), PDM #2 (67.5 hrs), MWD, MWD, Sub, Sub, 3 x HWDP, Jar, 3 x HWDP, 30x DP (S), 30x HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lb/100ft ²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
KCl/Polymer	1.04	50	9	18.0	7.0 / 11.0	6	8.7	5.00	0.10	3.00

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	12:00	12.00	558.00	3	Drill 12 1/4" hole from 404 - 558m
12:00	00:00	12.00	708.00	3	Drilling 12-1/4" hole from 558 to 708m

COMMENTS

sperry-sun

DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
 Well Name : Patricia #2
 Block : Vic/L21
 Location : Gippsland Sub Basin
 Rig : Ocean Bounty
 Job # : AU-DD-02022

CURRENT STATUS Report # 20 25/06/2002

Total Depth (m) :	884	Casing Depth (m) :	872.36	Operator Reps :	Guy Howard, Gavin Othen
Drilled last 24 hrs (m) :	176	Casing Diameter (in) :	9.625	SSDS Reps :	Frank van Noord (9), Ian Cobban (9)
Hole Size (in) :	12.250	Casing ID (in) :	8.661		

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
882.88	85.19	229.80	700.28	337.45	S51.41W

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)
SG2 Top Porosity	842.80	697.66

BHA SUMMARY

BHA 3: 655.37 m; Bit #3 (41.25 hrs), PDM #2 (79. hrs), MWD, MWD, Sub, Sub, 3 x HWDP, Jar, 3 x HWDP, 30x DP (S), 30x HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lb/100ft ³)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
KCl/Polymer	1.12	55	14	30.0	13.0 / 18.0	6	8.7	7.00	0.10	3.00

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	08:45	8.75	884.00	3	Drilling 12-1/4" hole from 708 to 884m, 12-1/4" TD
08:45	10:00	1.25	884.00	3	Circulate and increase mud weight to 1.12 SG.
10:00	12:00	2.00	884.00	3	Wiper trip from 884 to 655m, max overpull 35 k.
12:00	12:30	0.50	884.00	3	Continue wiper trip to 13-3/8" casing shoe
12:30	14:00	1.50	884.00	3	Finish wiper trip running in to 884m, no fill
14:00	15:30	1.50	884.00	3	Circulate bottoms up, gas peaked at 12.47%, continue circ until gas 0.5%
15:30	18:30	3.00	884.00	3	Trip Out BHA #3 (at Surface)
18:30	19:00	0.50	884.00	3	Download LWD tools and rack in derrick with motor
19:00	20:30	1.50	884.00		Make up wear bushing retrieval tool, retrieve wearbushing and lay down same
20:30	00:00	3.50	884.00		Hold JSA, rig up and run casing

COMMENTS

sperry-sun

DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
 Well Name : Patricia #2
 Block : Vic/L21
 Location : Gippsland Sub Basin
 Rig : Ocean Bounty
 Job # : AU-DD-02022

CURRENT STATUS Report # 21 25/06/2002

Total Depth (m) :	884	Casing Depth (m) :	872.36	Operator Reps :	Guy Howard, Gavin Othen
Drilled last 24 hrs (m) :	0	Casing Diameter (in) :	9.625	SSDS Reps :	Frank van Noord (10), S. Wainwright (1)
Hole Size (in) :	8.500	Casing ID (in) :	8.681		

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
862.88	85.19	229.80	700.28	337.45	S51.41W

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)
SG2 Top Porosity	842.80	697.66

BHA SUMMARY

BHA 4: 1266.79 m; Bit #4 (0.5 hrs), PDM #3 (70.75 hrs), MWD, MWD, MWD, Sub, 3 x HWDP, Jar, 3 x HWDP, 93x DP (S), 30x HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft ²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
KCl/Polymer	1.12	55	14	30.0	13.0 / 18.0	6	8.7	7.00	0.10	3.00

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	03:30	3.50	884.00		Make up casing hanger and run on drill pipe
03:30	04:00	0.50	884.00		Rig up cement hose and land casing
04:00	04:30	0.50	884.00		Circulate 1-1/2 times casing volume
04:30	07:00	2.50	884.00		Hold JSA and cement.
07:00	08:00	1.00	884.00		Release and recover casing running tool
08:00	10:00	2.00	884.00		Make up and run seal assembly
10:00	10:30	0.50	884.00		Test BOP
10:30	12:00	1.50	884.00		POOH with seal assembly running tool
12:00	12:30	0.50	884.00		Lay down 12-1/4" BHA # 3
12:30	13:30	1.00	884.00		Make up & RIH with BOP test tool
13:30	16:30	3.00	884.00		Pressure test BOP
16:30	17:00	0.50	884.00		POOH with BOP test tool
17:00	17:30	0.50	884.00		Service break and lay out cement head
17:30	20:30	3.00	884.00	4	Make up 8-1/2" BHA #4, motor bend @ 1.5°, service LWD & load radioactive source
20:30	22:00	1.50	884.00	4	RIH with 8-1/2" assembly to 750m
22:00	22:30	0.50	884.00	4	Service top drive
22:30	23:30	1.00	884.00	4	Continue RIH to 848m, top of cement
23:30	00:00	0.50	884.00	4	Drill cement and casing float plugs.

COMMENTS

sperry-sun DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
Well Name : Patricia #2
Block : Vic/L21
Location : Gippsland Sub Basin
Rig : Ocean Bounty
Job # : AU-DD-02022

CURRENT STATUS Report # 22 27/06/2002

Total Depth (m) :	1365	Casing Depth (m) :	872.36	Operator Reqs :	Guy Howard, Gavin Othen
Drilled last 24 hrs (m) :	481	Casing Diameter (in) :	9.625	SSDS Reqs :	Frank van Noord (11), S. Wainwright (2)
Hole Size (in) :	8.500	Casing ID (in) :	8.681		

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
1339.08	89.82	233.39	701.36	813.47	S51.61W

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)
SG3 Top going up	1290.80	701.27

BHA SUMMARY

BHA 4: 1266.79 m; Bit #4 (23.75 hrs), PDM #3 (94.25 hrs), MWD, MWD, MWD, Sub, 3 x HWDP, Jar, 3 x HWDP, 93x DP (S), 30x HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft ²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
KCl/Polymer	1.09	69	11	34.0	18.0 / 22.0	5	9.5	6.00	0.25	

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	02:15	2.25	884.00	4	Continue drilling plugs, float, cement and 9-5/8" casing shoe
02:15	02:45	0.50	887.00	4	Drilling 8-1/2" hole from 884 to 887m
02:45	03:00	0.25	887.00	4	Circulate and condition mud, displace to new mud, displace choke & kill lines
03:00	03:30	0.50	887.00	4	Perform F.I.T., with 1.07sg mud to 330 psi. Equivalent mud weight = 1.40sg
03:30	12:00	8.50	1064.00	4	Drilling 8-1/2" hole from 887 to 1064m
12:00	00:00	12.00	1365.00	4	Drilling 8-1/2" hole from 1064 to 1365m

COMMENTS

sperry-sun

DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
 Well Name : Patricia #2
 Block : Vic/L21
 Location : Gippsland Sub Basin
 Rig : Ocean Bounty
 Job # : AU-DD-02022

CURRENT STATUS Report # 23 28/06/2002

Total Depth (m) :	1385	Casing Depth (m) :	872.36	Operator Reps :	Guy Howard, Gavin Othen
Drilled last 24 hrs (m) :	20	Casing Diameter (in) :	9.625	SSDS Reps :	Frank van Noord (12), S.Wainwright (1)
Hole Size (in) :	8.500	Casing ID (in) :	8.681		

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
1385.00	90.46	234.02	701.15	859.36	S51.73W

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)
SG3 Top going up	1290.80	701.27

BHA SUMMARY

BHA 4: 1266.79 m; Bit #4 (24.75 hrs), PDM #3 (97.25 hrs), MWD, MWD, MWD, Sub, 3 x HWDP, Jar, 3 x HWDP, 93x DP (S), 30x HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lb/100ft ²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
KCl/Polymer	1.12	60	11	32.0	15.0 / 18.0	5	9.5	8.00	0.25	

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	01:00	1.00	1385.00	4	Drilling 8-1/2" hole from 1365 to 1385m, Final TD of Patricia 2.
01:00	01:30	0.50	1385.00	4	Circulate bottoms up
01:30	06:00	4.50	1385.00	4	Wiper trip to 9-5/8" casing shoe, return to bottom no fill
06:00	06:30	0.50	1385.00	4	Circulate
06:30	09:00	2.50	1385.00	4	Trip Out to 9-5/8" casing shoe
09:00	10:00	1.00	1385.00	4	Circulate to inhibited brine
10:00	12:00	2.00	1385.00	4	Trip Out (at Surface) Remove LWD source and download.
12:00	13:00	1.00	1385.00	4	Lay down BHA #4, wash and drain motor.
13:00	00:00	11.00	1385.00	4	Rig out and wait on location for screen liner to get to bottom as per companyman

COMMENTS

sperry-sun

DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
 Well Name : Patricia #2
 Block : Vic/L21
 Location : Gippsland Sub Basin
 Rig : Ocean Bounty
 Job # : AU-DD-02022

CURRENT STATUS Report # 24 29/06/2002

Total Depth (m) :	1385	Casing Depth (m) :	872.36	Operator Reps :	Guy Howard, Gavin Othen
Drilled last 24 hrs (m) :	0	Casing Diameter (in) :	9.625	SSDS Reps :	Frank van Noord (13), S.Wainwright (2)
Hole Size (in) :	8.500	Casing ID (in) :	8.681		

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
1385.00	90.46	234.02	701.15	859.36	S51.73W

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)
SG3 Top going up	1290.80	701.27

BHA SUMMARY

BHA 4: 1266.79 m; Bit #4 (24.75 hrs), PDM #3 (97.25 hrs), MWD, MWD, MWD, Sub, 3 x HWDP, Jar, 3 x HWDP, 93x DP (S), 30x HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft ²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
KCl/Polymer	1.12	60	11	32.0	15.0 / 18.0	5	9.5	8.00	0.25	

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:00	24.00	1385.00	4	Wait on rig for chopper to Melbourne

COMMENTS

Empty box for comments.

sperry-sun

DRILLING SERVICES

Daily Drilling Report

Client : OMV Australia Pty. Ltd.
 Well Name : Patricia #2
 Block : Vic/L21
 Location : Gippsland Sub Basin
 Rig : Ocean Bounty
 Job # : AU-DD-02022

CURRENT STATUS Report # 25 30/06/2002

Total Depth (m) :	1385	Casing Depth (m) :	872.36	Operator Reps :	Guy Howard, Gavin Othen
Drilled last 24 hrs (m) :	0	Casing Diameter (in) :	9.625	SSDS Reps :	Frank van Noord (14), S.Wainwright (3)
Hole Size (in) :	8.500	Casing ID (in) :	8.681		

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
1385.00	90.46	234.02	701.15	859.36	S51.73W

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)
SG3 Top going up	1290.80	701.27

BHA SUMMARY

BHA 4: 1266.79 m; Bit #4 (24.75 hrs), PDM #3 (97.25 hrs), MWD, MWD, MWD, Sub, 3 x HWDP, Jar, 3 x HWDP, 93x DP (S), 30x HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft ²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
KCl/Polymer	1.12	60	11	32.0	15.0 / 18.0	5	9.5	8.00	0.25	

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:00	24.00	1385.00	4	Travel from Melbourne

COMMENTS



OMV Australia



The Thales logo is displayed in white, uppercase letters on a dark blue rectangular background. The letter 'A' features a small teal dot above it.

THALES

The background of the middle section is a detailed bathymetric map of a coastal area, showing depth contours in various colors (blue, green, yellow, orange, red) and a grid of latitude and longitude lines. A small orange circle highlights a specific location on the map.

Patricia-2 Site Survey Report

**Prepared for
OMV Australia Pty. Ltd.**

Report No: 3346C1

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Prepared for



OMV AUSTRALIA PTY LTD

DOCUMENT TITLE	:	PATRICIA-2 SITE SURVEY REPORT
CLIENT	:	OMV AUSTRALIA PTY LTD
LOCATION	:	BASS STRAIT, TASMANIA
PERMIT	:	VIC/L21
REPORT REF.	:	3346C1
REPORT REV NO.	:	0
REPORT ISSUE DATE	:	8 APRIL 2002
SURVEY DATE	:	15 - 19 MARCH 2002

CONTENTS

	Page No.
Location Diagram	
1. INTRODUCTION	6
2. SUMMARY OF SURVEY RESULTS	7
3. SURVEY RESULTS	9
3.1 Bathymetry	9
3.2 Seabed Features	11
3.3 Well Head Magnetometer Survey	16
3.4 Shallow Geology	17
3.5 Shallow Gas Risk Assessment	21
3.6 Standard Method of Shallow Gas Risk Assessment	22
3.7 Seabed Sampling	23
4. CONCLUSIONS	24
5. SAFETY	25
6. GEODETIC PARAMETERS	27
6.1 Datums	27
6.2 Projection	27
6.3 Datum Transformation	28
7. EQUIPMENT DESCRIPTIONS	29
7.1 GNS2	29
7.2 Global Positioning System (GPS)	30
7.3 SkyFix/SkyFix Spot Differential GPS (DGPS)	32
7.4 Trimble Series 4000 GPS Receiver	34
7.5 MultiFix 3	35
7.6 Atlas Deso 15 Echo Sounder	38
7.7 TSS DMS 2-05 Motion Sensor	39
7.8 GeoAcoustics Dual Frequency Side Scan Sonar System	41
7.9 Boomer Sub-bottom Profiling System – CSP1000	43
7.10 Geometrics G-880 Magnetometer	45
7.11 CODA DA200 Digital Recording/Processing System	47
7.12 S. G. Brown 1000S Gyrocompass	50
7.13 Applied Microsystems Model SVPlus Sound Velocity Profiler	51
8. EQUIPMENT CALIBRATIONS AND CHECKS	53
8.1 Gyrocompass Calibration	53
8.2 Static Differential GPS Check	55
8.3 Velocity of Sound in Seawater Profiles	56
8.4 Echo Sounder Transducer Draft Measurements and Motion Sensor Test	57
8.5 Side Scan Sonar Rub Test and Wet Tests	58
8.6 Boomer Wet Tests	59
9. SUMMARY OF EVENTS	60
10. PERSONNEL AND EQUIPMENT	61
10.1 Personnel	61
10.2 Equipment	62
11. DISTRIBUTION	63

LIST OF FIGURES

- Figure 1: 33kHz and 210kHz Atlas Deso 15 single beam echo sounder data example. Illustrates the seabed bathymetry at the proposed Patricia-2 location. Line PX2. Heading 321°.
- Figure 2: 100kHz side scan sonar data example. Illustrates low reflectivity seabed interpreted as loose/soft clayey SAND with some shell fragments at the proposed Patricia-2 location. Line PX2. Heading 321°.
- Figure 3: 100kHz side scan sonar data example. Illustrates Patricia-1 wellhead location and the surrounding seabed. Line P1NS+50. Heading 359°.
- Figure 4: 100kHz side scan sonar data example. Illustrates the boundary between low reflectivity seabed interpreted as loose/soft clayey SAND with some shell fragments and moderate reflectivity seabed interpreted as fine to coarse SAND with some shell and ROCK fragments. Line PP7. Heading 051°.
- Figure 5: Boomer sub-bottom data example. Illustrates the shallow geology at the proposed Patricia-2 location. Line PP11. Heading 051°.
- Figure 6: Boomer sub-bottom data example. Illustrates a zone of high amplitude reflection exhibited by reflector R3 and change in depth of top of Unit D. Line PP9. Heading 051°.

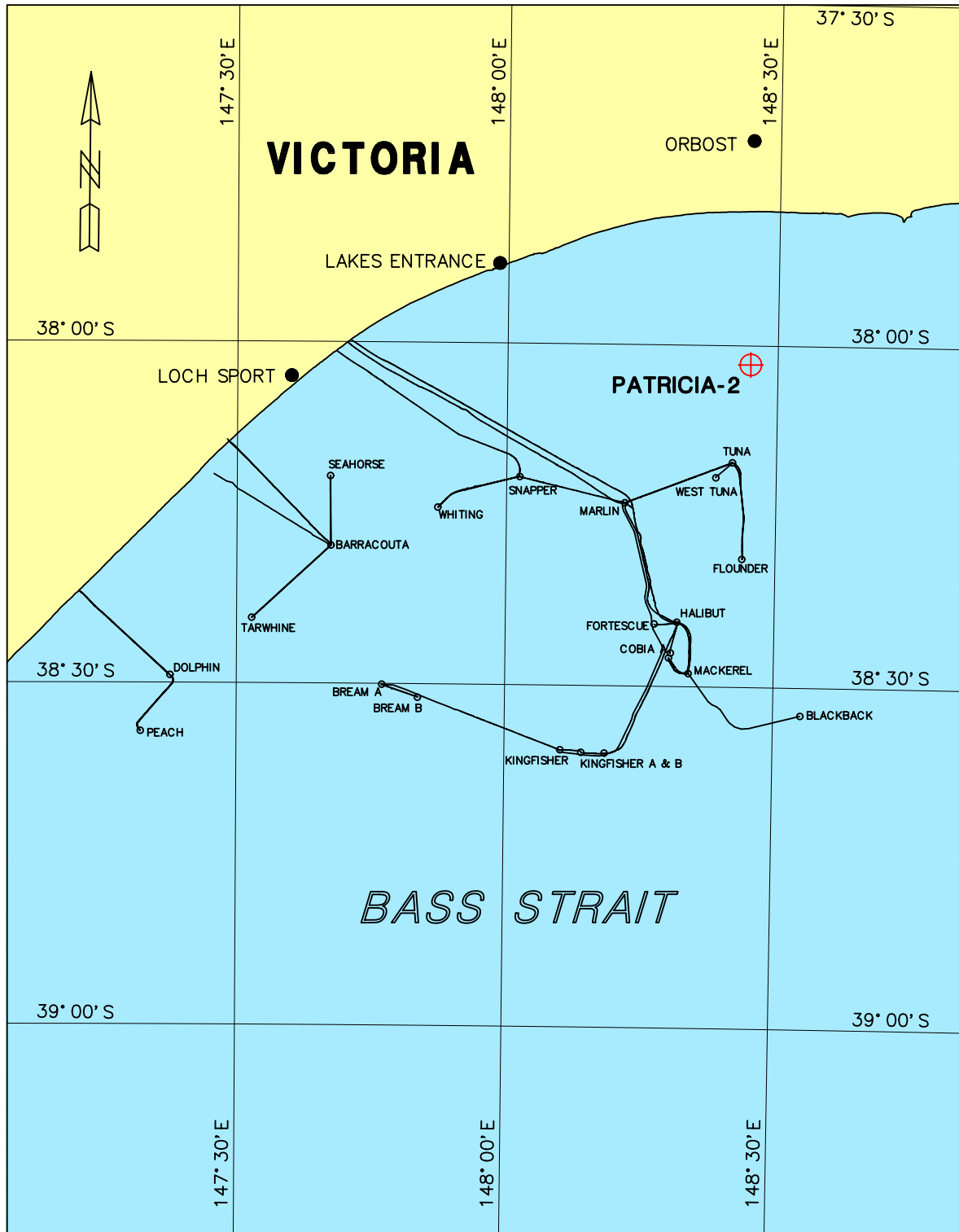
APPENDICES

- A - SAFETY REPORTS
- B - OFFSET DIAGRAM - BLUEFIN
- C - GNS SYSTEM DATA PRINTOUT
- D - GYROCOMPASS CALIBRATIONS PRINTOUTS
- E - STATIC DIFFERENTIAL GPS CHECK PRINTOUTS
- F - BAR CHECK & MOTION SENSOR CHECK
- G - SIDE SCAN SONAR WET TEST & RUB TEST
- H - BOOMER WET TEST AND PULSE TEST
- I - VELOCITY OF SOUND IN SEAWATER PROFILE
- J - SURVEY LINE LOGS
- K - FIELD SEABED SAMPLE DESCRIPTIONS
- L - TIDAL PREDICTIONS
- M - DAILY FIELD PROGRESS REPORT SHEETS

DRAWINGS

3346C1-01	TRACK DRAWING	Scale 1:5000
3346C1-02	BATHYMETRY DRAWING	Scale 1:5000
3346C1-03	SEABED FEATURES DRAWING	Scale 1:5000
3346C1-04	ISOPACH DRAWING	Scale 1:5000
3346C1-05	GEOLOGICAL PROFILE DRAWING	Scale 1:5000/1:200

LOCATION DIAGRAM



1. INTRODUCTION

Positioning, bathymetric and geophysical services were provided by Thales GeoSolutions (Australasia) Limited (Thales) to OMV Australia Pty Limited (OMV), for a survey of the proposed Patricia-2 location, in the Gippsland Basin, Bass Strait. All survey requirements and operating procedures were undertaken in accordance with the agreement between Thales and OMV. The survey was undertaken to investigate the suitability of the area for the positioning of a semi-submersible rig.

The survey vessel, Bluefin, was used to conduct the survey. All necessary survey positioning, geophysical and geotechnical equipment were installed and calibrated prior to the commencement of the survey. A Trimble 4000 Series Global Positioning System (GPS) was used in conjunction with Thales' SkyFix/SkyFix Spot Differential GPS and associated equipment to provide on-line positioning. An Atlas Deso 15 single beam echo sounder, a GeoAcoustics side scan sonar towfish with CODA data logging, an EG & G surface tow boomer sub-bottom profiling system with CODA data logging and a Geometrics G-880 magnetometer were used for geophysical data acquisition.

The survey site is a rectangle 3.0km x 2.0km with a total area of 6.0km².

OMV supplied the proposed Patricia-2 location:

Datum: AGD66

Latitude : 38° 01' 39.97" South
Longitude : 148° 26' 57.83" East

Projection: AMG Zone 55, CM 147° East

Easting : 627 209.0m
Northing : 5 790 097.8m

The survey area consisted of 21 primary lines 3.0km long, on an orientation of 051°/231° with a line spacing of 100m. The cross lines consisted of 3 lines 2.0km long, on an orientation of 141°/321° with a line spacing of 500m. Geophysical equipment consisting of echo sounder, side scan sonar and boomer profiler was run simultaneously on these lines. Two additional 1.0km lines were run: the first on an orientation of 359° and the second on an orientation of 089°, to correlate the position of the Patricia-1 wellhead. The full suite of geophysical equipment consisting of echo sounder, side scan sonar, boomer profiler and magnetometer was run simultaneously on these lines.

Seabed sampling was successfully undertaken across the site survey area, and the results have been used to ground truth the geophysical data.

The survey was carried out on 18 and 19 March 2002. All times are quoted in Eastern Daylight Time (UTC+11 hours).

2. SUMMARY OF SURVEY RESULTS

Bathymetry

All soundings have been reduced to the Lowest Astronomical Tide (LAT) based on tidal predictions obtained from WNI (38° 01' 00" South, 148° 26' 57" East). LAT is approximately 0.7m below Mean Sea Level (MSL) or the Australian Height Datum (AHD).

The nearest observable water depth to the proposed Patricia-2 location is 52.5m LAT. The minimum water depth observed within the site survey area was 51.6m LAT, 800m southeast of the proposed Patricia-2 location. The maximum water depth observed was 53.7m LAT, 900m northeast of the proposed Patricia-2 location.

Overall, the seabed is essentially flat, across the site with only a 2.1m variation in seabed height. The seabed within the site survey area shows no overall geographic trend but undulates with a very gentle gradient $<1^\circ$ ($<1:57$).

Seabed features

A low reflectivity seabed interpreted as loose/soft clayey SAND with some shell fragments occupies approximately 35% of the Patricia-2 site survey area. The occurrence of this seabed type is elongate and indicates a probable current direction trending east to west. The proposed Patricia-2 location lies within this seabed type. One gravity corer sample was recovered within this seabed type.

The remaining 65% of the seabed within the site survey area is a moderate reflectivity seabed interpreted as fine to coarse SAND with some shell and ROCK fragments. The moderately reflective character of this seabed type may be indicative of a slightly coarser average grain size compared to the other seabed type. One grab sample was recovered within this seabed type.

One sonar contact was identified, approximately 5.4m across and 1.7m in height interpreted as the Patricia-1 wellhead, which was drilled in 1987 and has not been removed. The Patricia-1 wellhead is surrounded by a small area of disturbed seabed believed to be associated with former drilling activities and also possibly indicative of drilling muds.

Shallow geology

The shallow stratigraphy in the survey area has been defined as follows:

Stratigraphy	Description
Unit A	Loose to medium dense shelly SANDS and soft to stiff CLAYS.
Unit B	Medium dense to dense shelly SANDS and stiff CLAYS.
Unit C	Variably cemented SANDS.
Unit D	Cemented sediments.

The shallow stratigraphy at the proposed Patricia-2 location has been defined as follows:

Top of Unit	Depth Below Seabed (m)	Unit Thickness (m)	Predicted Lithology
A	0	2.0	Loose to medium dense shelly SANDS and soft to stiff CLAYS.
B	2.0	1.0	Medium dense to dense shelly SANDS and stiff CLAYS.
C	3.0	1.0	Variably cemented SANDS.
D	4.0	>8.0 to beyond the approximate limit of seismic penetration	Cemented sediments.

Shallow Gas Risk Assessment

Using the method of shallow gas risk assessment outlined in section 3.5 of this report, the risk of shallow gas is defined as slight (gas unlikely) at the proposed Patricia-2 location and within the limit of useful boomer penetration.

Seabed Sampling

One gravity corer sample and one grab sample of the seabed were collected near the proposed Patricia-2 location the results of which have been used to ground truth the geophysical data.

3. SURVEY RESULTS

3.1 BATHYMETRY

Analogue and digital soundings of the seafloor were obtained using an Atlas Deso 15 Single Beam echo sounder. The data was corrected for heave using a TSS DMS 2-05 motion sensor. The transducers were mounted onto the starboard side of the vessel and a bar check was carried out prior to commencement of the survey. A draft setting of 1.54m was obtained for the 33kHz and 210kHz transducers on 16 March 2002. These were entered into the echo sounder (refer Appendix F).

All soundings have been reduced to LAT based on the tidal predictions obtained from WNI for the survey area (38° 01' 00" South, 148° 26' 57" East refer Drawing No. 3346C1-02). LAT is approximately 0.7m below Mean Sea Level (MSL) or the Australian Height Datum (AHD) (refer Appendix L).

Bathymetric data quality was generally good with minimal miss-ties. Maximum miss-ties observed were up to 0.4m.

The velocity of sound in seawater was determined prior to the commencement of the survey by the deployment of an Applied Microsystems Model SVPlus Velocity Profiler Probe. A mean velocity of sound of 1515.7m/s was determined and entered into the echo sounder on 18 March 2002 (refer Appendix I).

The bathymetric soundings are representative of the seafloor topography and are plotted on Drawing No. 3346C1-02 (Scale 1:5000) and contoured at 1m intervals.

The nearest observable water depth to the proposed Patricia-2 location is 52.5m LAT. The minimum water depth observed within the site survey area was 51.6m LAT, 800m southeast of the proposed Patricia-2 location. The maximum water depth observed was 53.7m LAT, 900m northeast of the proposed Patricia-2 location.

Overall, the seabed is essentially flat, across the site with only a 2.1m variation in seabed height. The seabed within the site survey area shows no overall geographic trend but undulates with a very gentle gradient $<1^\circ$ ($<1:57$).

The seabed within a 100.0m radius of the proposed Patricia-2 location appears clear of any topographical features which may be considered hazardous to drilling operations.

A single beam echo sounder data example at the proposed location is shown as Figure 1.

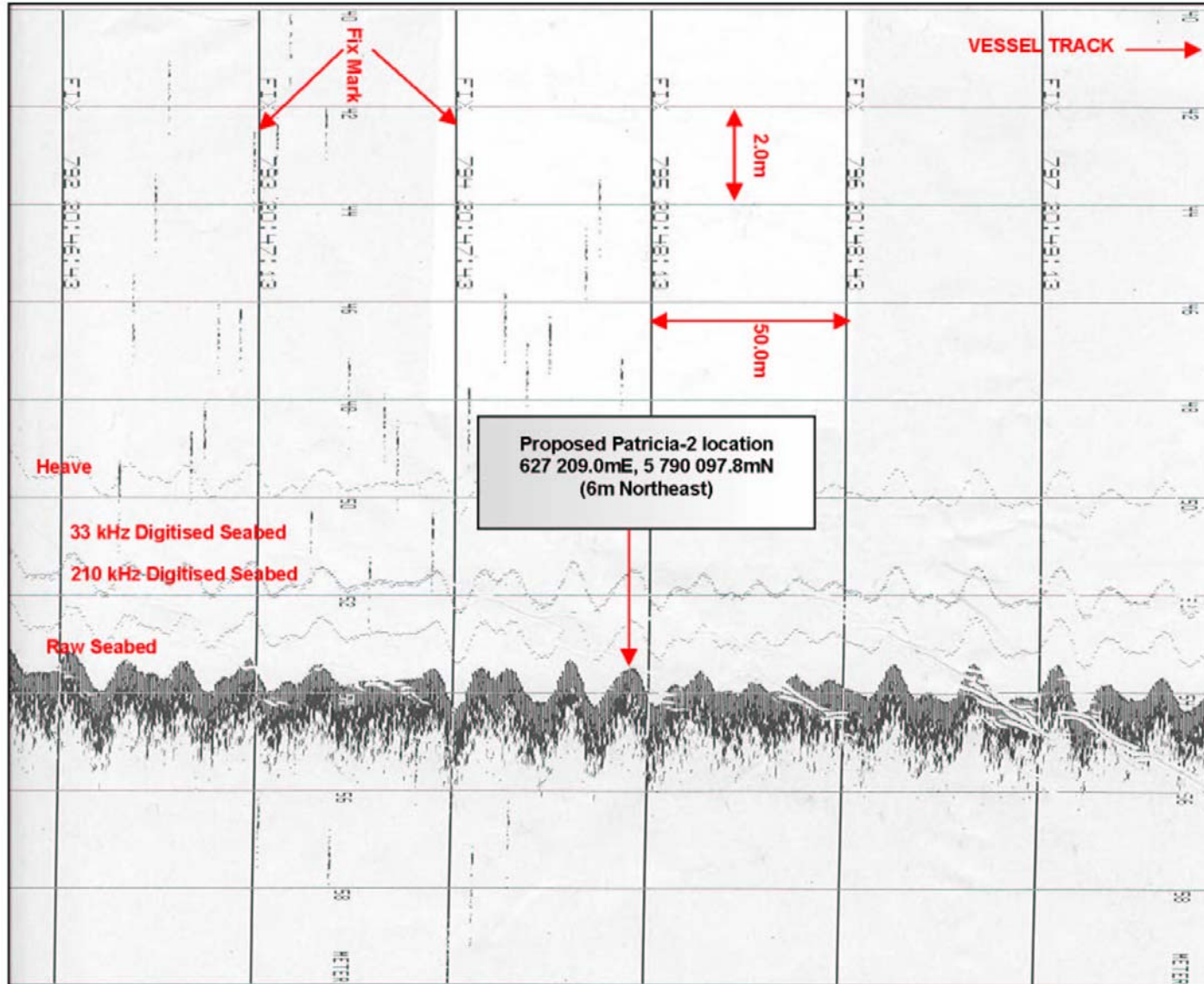


Figure 1 : 33kHz and 210kHz Atlas Deso 15 single beam echo sounder data example. Illustrates the seabed bathymetry at the proposed Patricia-2 location. Line PX2. Heading 321°

3.2 SEABED FEATURES

The textural characteristics and reflective strengths of the seafloor around the survey area were investigated by the deployment of a GeoAcoustics side scan sonar system. The system consists of the GeoAcoustics side scan sonar towfish & transceiver operated at 100kHz, a CODA DA200 Digital Recorder and an Alden 9315 CTP printer. The data was digitally recorded using the CODA Acquisition System to allow further processing or replay. The side scan sonar was set with a slant range of 125m, with interval scale lines of 10m, providing over 100% data overlap on a 100m primary line spacing.

One gravity corer sample and one grab sample were recovered within the site survey area. These samples were used to ground truth the geophysical data. Correlation between seabed sample data and sonar acoustic reflectivity across the survey area enables textural characteristics to be interpreted in terms of sediment lithology and plotted on the seabed features drawing (refer Drawing No. 3346C1-03).

The quality of the side scan sonar data was good. Insonification of the seabed was generally achieved to the limit of the selected slant range, and adequate to produce the required coverage.

Seabed sediments within the survey area have been interpreted and classified into the following acoustic and lithological seabed categories:

Low reflectivity seabed interpreted as loose/soft clayey SAND with some shell fragments.

This seabed type occupies 35% of the Patricia-2 site survey area and consists of loose/soft clayey SAND with some shell fragments. It is characterised by a flat, low reflectivity seabed with well defined sediment textural boundaries. The textural boundaries are elongate indicating a probable current direction trending west to east.

One gravity core sample recovered in this seabed type consists of loose shelly SAND at the seabed, overlaying firm to stiff CLAY. The proposed Patricia-2 location lies within this seabed type (see Figure 2).

Moderate reflectivity seabed interpreted as fine to coarse SAND with some shell and ROCK fragments.

This seabed type occupies 65% of the Patricia-2 site survey area and consists of fine to coarse SAND with some shell and ROCK fragments. It is characterised by a flat, moderate reflectivity seabed with well defined sediment textural boundaries (see Figure 4).

The moderately reflective character of this seabed type may be indicative of a slightly coarser average grain size compared to the other seabed type.

One grab sample recovered in this seabed type consists of loose, coarse SAND with some shell fragments.

Moderate reflectivity seabed interpreted as disturbed loose/soft clayey SAND with some shell fragments.

This seabed type occupies <1% of the Patricia-2 site survey area and occurs exclusively around the Patricia-1 wellhead position. It is believed to consist of loose/soft clayey SAND with some shell fragments. It is characterised by a moderate reflectivity seabed with a well define sediment textural boundary.

It is believed to be disturbed seabed associated with former drilling activities and may also be indicative of drilling muds around the former wellhead (see Figure 3).

Sonar Contacts

One sonar contact was identified with approximately 5.4m across and with a height of approximately 1.7m. It is interpreted as the Patricia-1 wellhead, which was drilled in 1987 and has not been removed (see Figure 3). The as-found (side scan sonar) position of the contact can be found below and correlates closely to the as-supplied position of the Patricia-1 wellhead.

Datum: AGD66 Projection: AMG Zone 55, CM 147° East

Description	Easting (m)	Northing (m)
Patricia-1 Wellhead (as supplied)	626 945.0	5 789 700.3
Patricia-1 Wellhead (as found sss)	626 948	5 789 695

Positional Considerations

The accuracy of derived dimensions is dependent on the quality of the side scan sonar data. Adverse operating conditions can produce effects such as tow fish heave and yaw, which reduce interpretation accuracy.

The accuracy with which a sonar contact or seabed feature can be positioned is dependent on a number of factors. Survey considerations are of primary importance, as position accuracy ultimately depends on the accuracy with which both the vessel and tow fish can be positioned. Running adjacent survey lines in opposite directions reduces the effects of tow fish position inaccuracy, as miss-ties between lines can then be averaged to produce a best-fit position.

The position accuracy of features derived from an interpretation of side scan sonar data, is subject to additional considerations that are independent of the data quality issues discussed above. Such potential errors include those associated with scaling, plotting and subsequent digitising of features. Additionally, certain features require a subjective interpretation.

In the survey area, the accuracy of positioning is estimated at $\pm 15\text{m}$ and the accuracy of height measured above and below ambient seabed is estimated at $\pm 0.5\text{m}$.

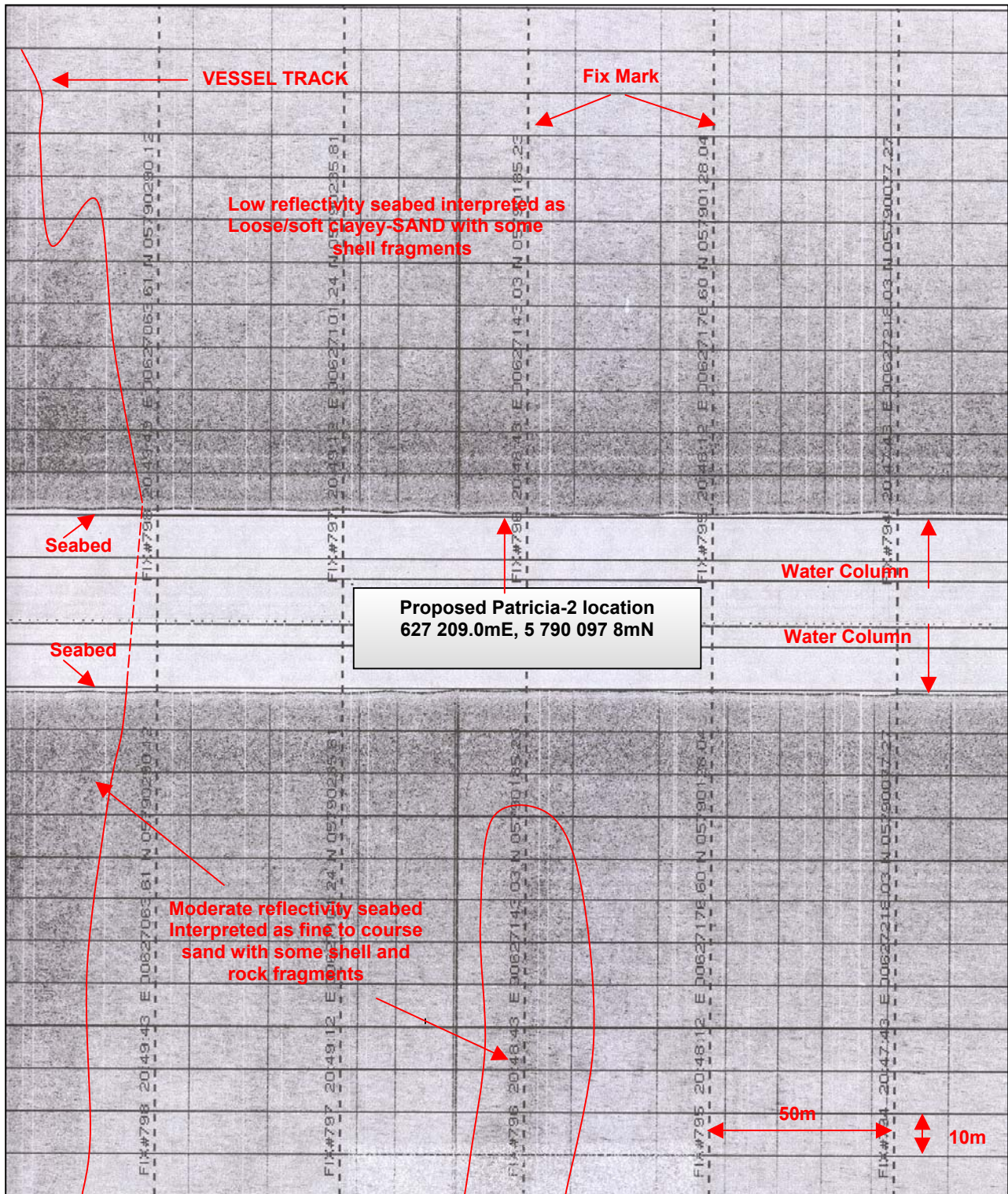


Figure 2 : 100kHz slide scan sonar data example. Illustrates low reflectivity seabed interpreted as loose/soft clayey SAND with some shell fragments at the proposed Patricia-2 location.
Line PX2. Heading 321°

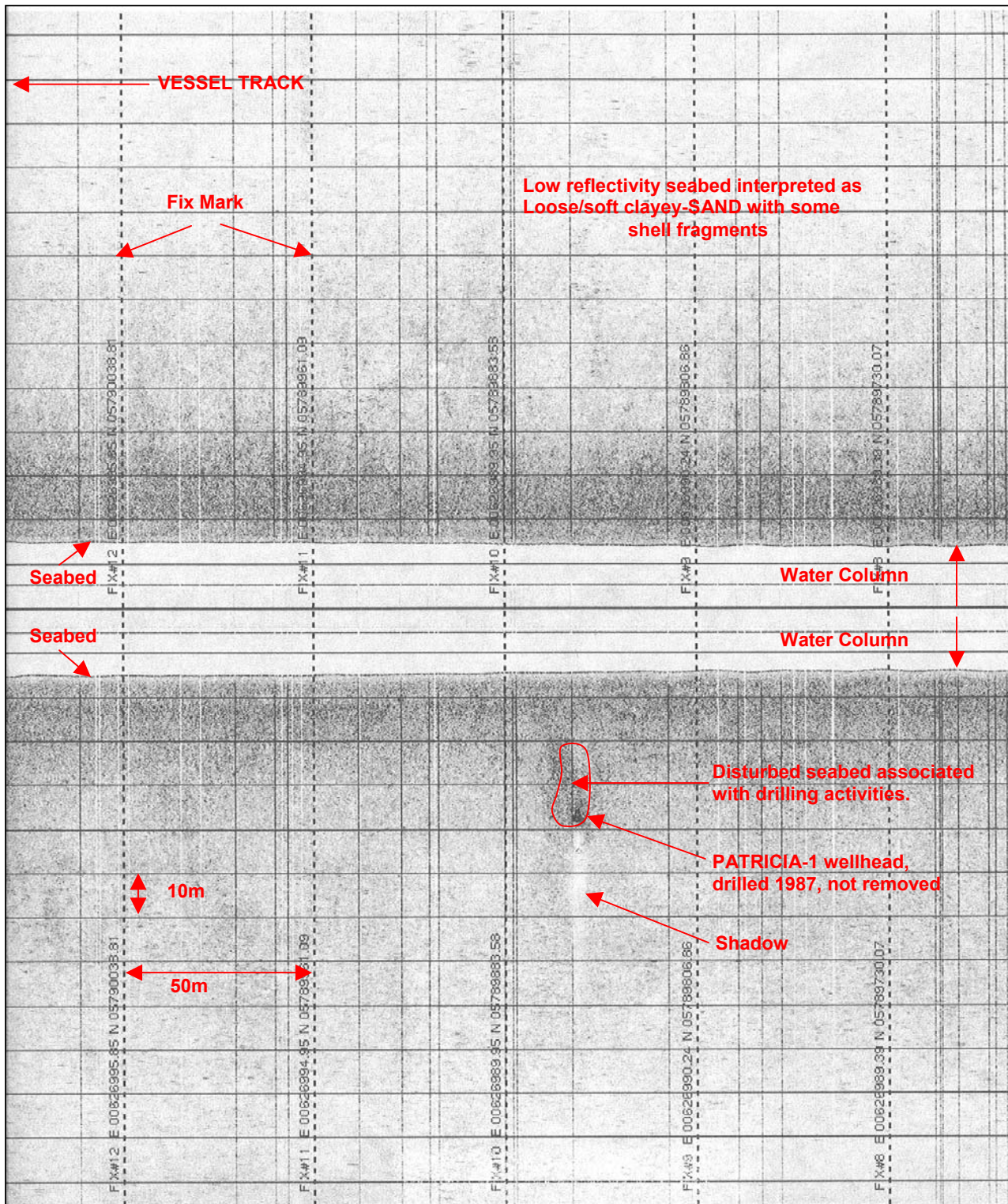


Figure 3 : 100kHz slide scan sonar data example. Illustrates Patricia-1 wellhead location and the surrounding seabed.
Line P1NS+50. Heading 051°

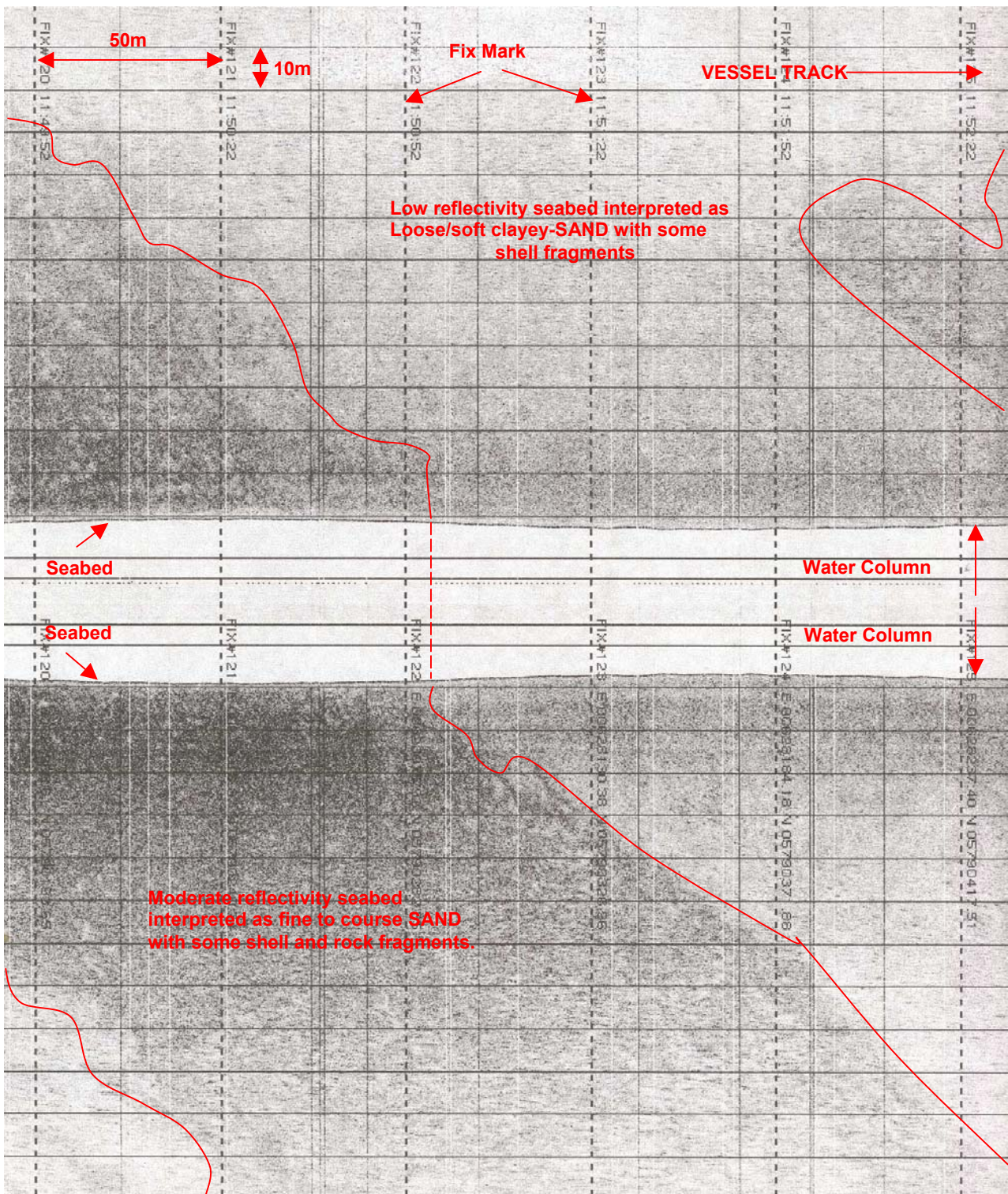


Figure 4 : 100kHz slide scan sonar data example. Illustrates the boundary between low reflectivity seabed interpreted as loose/soft clayey SAND with some shell fragments and moderate reflectivity seabed interpreted as fine to coarse SAND with some shell and ROCK fragments. Line PP7. Heading 051°

3.3 WELL HEAD MAGNETOMETER SURVEY

Analogue and digital magnetometer data were obtained using a Geometrics G-880 caesium marine deep tow magnetometer. The G-880 tow fish was towed from the stern of the vessel. The aim of the magnetometer survey was to confirm the location of the Patricia-1 wellhead.

Confirmation of the wellhead location was reported separately to OMV.

3.4 SHALLOW GEOLOGY

The shallow geology of the survey area was interpreted from data acquired by the deployment of an EG&G 230 surface tow boomer. Analogue seismic data was recorded on a CODA DA200 Digital Recorder and an Alden 9315 CTP printer. The data was digitally recorded using the CODA Acquisition System to allow further processing or replay. The boomer data was recorded with a sweep of 135ms of which 85ms was displayed on a hard copy printout using an Alden 9315 CTP printer. The firing interval was 410ms and a power level of 300 Joules was supplied by an Applied Acoustics, high voltage energy source. The printed sub-bottom data was TVG amplified to compensate for signal loss and a band-pass filter (400Hz to 4.0kHz) was applied.

Sub-bottom profiler data quality was good considering the poor weather conditions. The limit of penetration reached with the sub-bottom profiler (or limit of useful acoustic penetration) was up to 16.0m below seabed. Boomer data could not be interpreted below this depth.

Sediment thickness was calculated using an assumed acoustic velocity of 1600m/s for the time to depth conversion. The stratigraphy in the survey area has been categorised as follows:

Stratigraphy	Description
Unit A	Loose to medium dense shelly SANDS and soft to stiff CLAYS.
Unit B	Medium dense to dense shelly SANDS and stiff CLAYS.
Unit C	Variably cemented SANDS.
Unit D	Cemented sediments.

The shallow geology is relatively homogenous across the site survey area. Unit A and Unit B are generally flat lying and continuous across the entire site survey area. Unit C is continuous across the entire site survey area but the thickness of Unit C is much more variable, becoming much thicker in the north and west of the site survey area. Unit D underlies the first three Units across the entire site survey area and in the north and west occurs at greater depth below the seabed.

Unit A : Loose to medium dense shelly SANDS and soft to stiff CLAYS

The seabed and reflector R1 bound the uppermost unit, designated Unit A. By correlation with seabed sampling, Unit A comprises loose to medium dense shelly SANDS and soft to stiff CLAYS. Unit A is present over the entire site survey area. Its thickness varies from 2.0m to 4.0m thick. Unit A is flat lying and its thickness is relatively homogenous across the survey area.

Reflector R1 has a relatively low reflection amplitude and is continuous to gradational across the entire survey area.

The thickness of Unit A (seabed to reflector R1) has been mapped across the survey area and presented as an isopach drawing at one metre contour interval (refer Drawing No. 3346C1-04).

Unit B : Medium dense to dense shelly SANDS and stiff CLAYS.

The top of Unit B is defined by reflector R1, and its base by reflector R2, which are both laterally continuous to gradational across the entire survey area and of relatively low reflection amplitude. The acoustic properties of Unit B are similar to Unit A. No seabed sampling was obtained within Unit B. Unit B is interpreted as consisting medium dense to dense shelly SANDS and stiff CLAYS. Unit B is also flat lying and its thickness is relatively homogenous across the entire survey area varying from 0.5m to 1.5m.

Unit C : Variably cemented SANDS

The top of Unit C is defined by the reflector R2 and the base by reflector R3. No seabed sampling was obtained within Unit C. Unit C is interpreted as consisting variably cemented SANDS. The thickness of Unit C is relatively homogenous across most of the site survey area, varying from 0.5m to 1.5m thick. In the north and west of the site survey area however the depth of the base of Unit C below the seabed is more variable and generally deeper. In the north and west of the site survey area the thickness of Unit C varies from approximately 1.5m to 8.0m (see Figure 6).

Unit D : Cemented sediments

The top of Unit D is defined by the reflector R3 and continues to below the limit of useful acoustic penetration. No seabed sampling was obtained within Unit D. Unit D is interpreted as consisting cemented sediments to beyond the limit of useful acoustic penetration.

The reflector R3 has a relatively high reflection amplitude and although continuous to gradational across the site survey area is not always clearly defined. This would indicate a relatively large, although variable change in density, between Unit C and Unit D. This has been interpreted as the result of the change to the cemented sediments of Unit D. There is also an angular unconformity between Unit C and Unit D and the top of Unit D may comprise a weathered surface probably related to a Pleistocene era sea level regression. The depth of reflector R3 is relatively constant across some of the site survey area except in the north and west of the site survey area where it becomes more variable and generally deeper.

Numerous internal reflectors have been identified within Unit D (refer Drawing No. 3346C1-05). These have been interpreted as possibly representing bedding planes within Unit D, dipping southerly. These internal reflectors could also be indicative of lithological changes within Unit C. (see Figures 5 and 6).

The predicted lithology at the proposed Patricia-2 location can be seen below:

Top of Unit	Depth Below Seabed (m)	Unit Thickness (m)	Predicted Lithology
A	0	2.0	Loose to medium dense shelly SANDS and soft to stiff CLAYS.
B	2.0	1.0	Medium dense to dense shelly SANDS and stiff CLAYS.
C	3.0	1.0	Variably cemented SANDS.
D	4.0	>8.0 to beyond the approx. limit of seismic penetration	Cemented sediments.

A boomer data example at the proposed Patricia-2 location is presented as Figure 5.

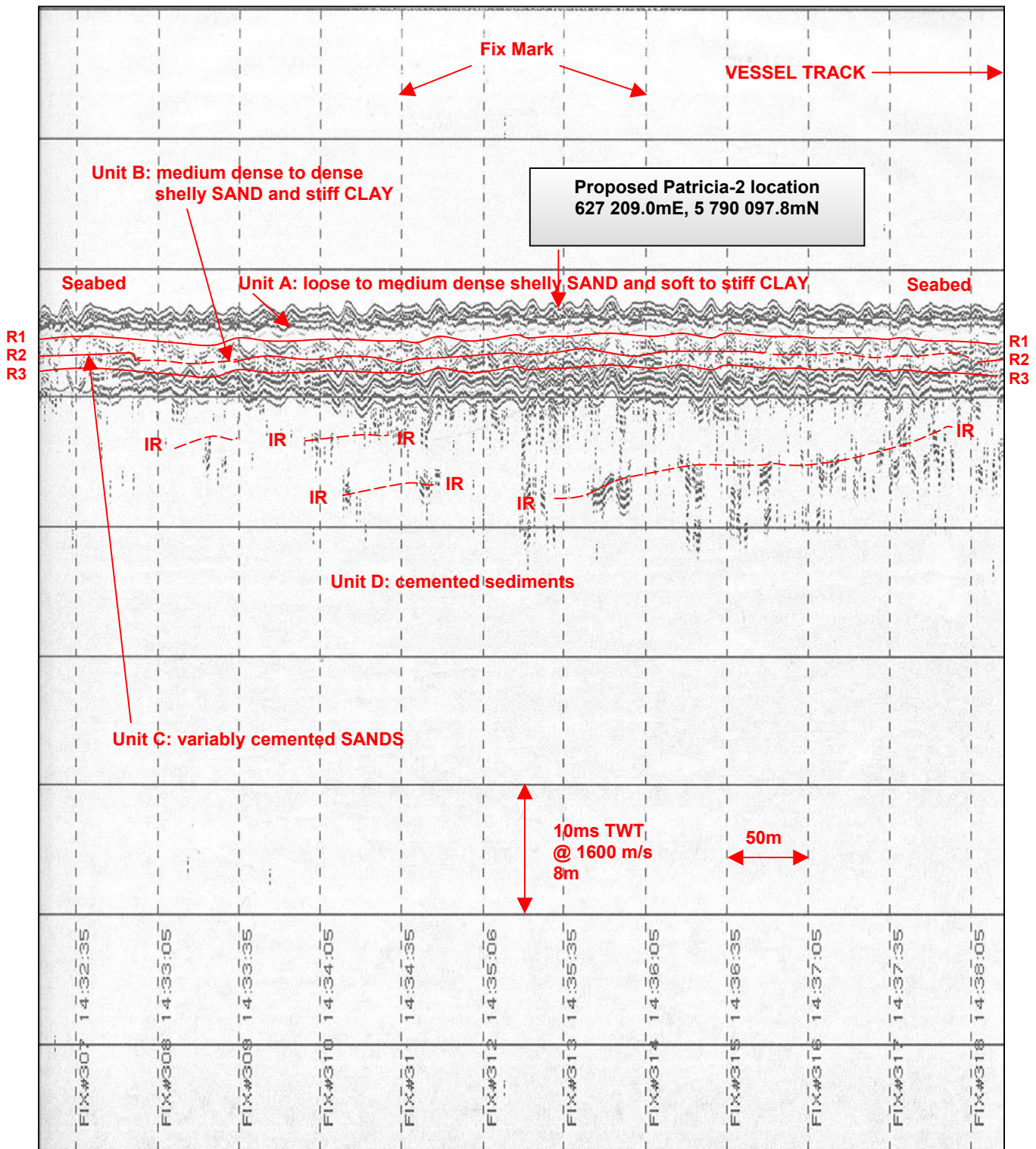


Figure 5 : Boomer sub-bottom data examples. Illustrates the shallow geology at the proposed Patricia-2 location. Line PP11. Heading 051°

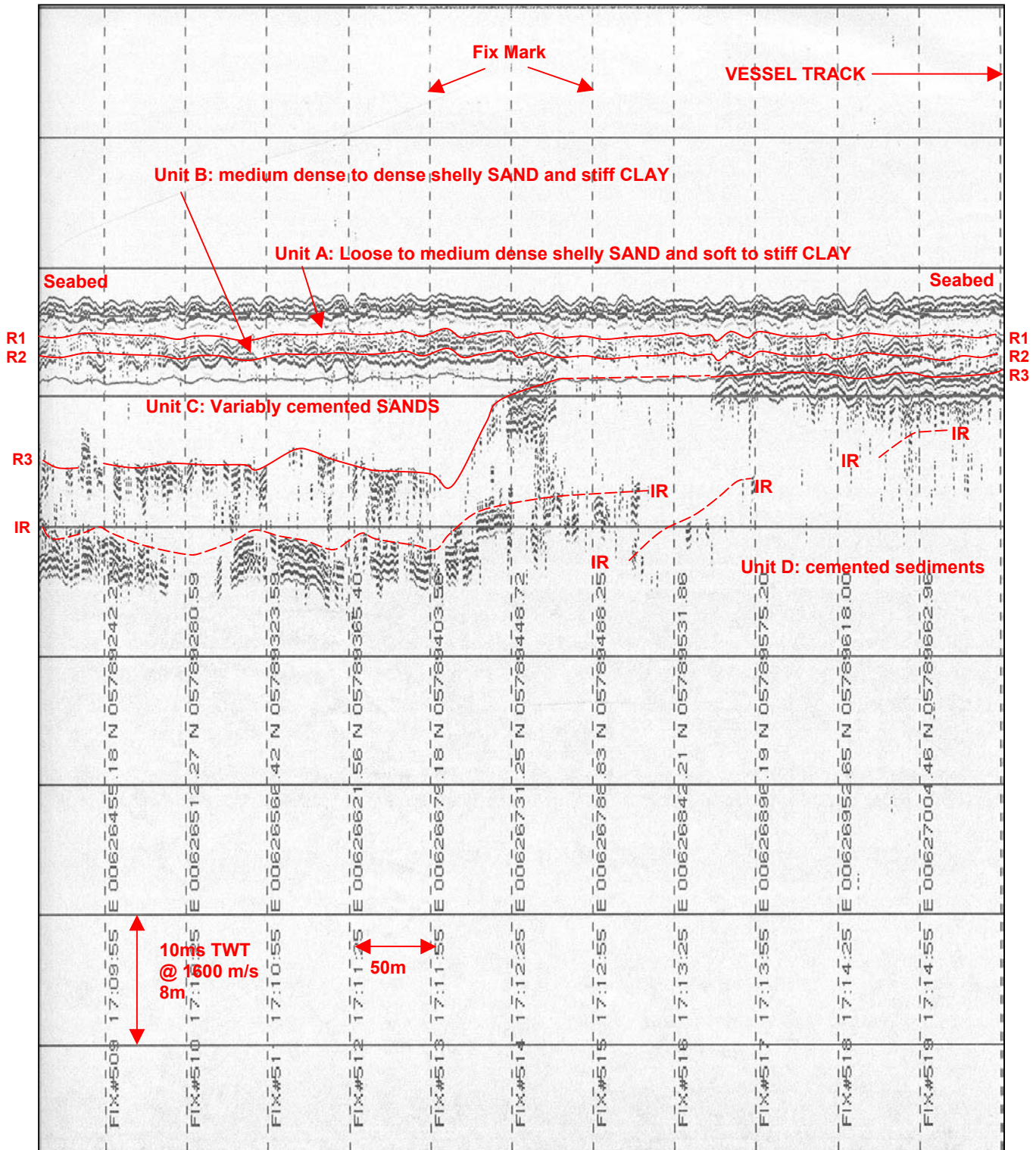


Figure 6 : Boomer sub-bottom data examples. Illustrates a zone of high amplitude reflection exhibited by reflector R3 and change in depth of top of Unit D. Line PP9. Heading 051°

3.5 SHALLOW GAS RISK ASSESSMENT

The limit of penetration reached with the subbottom profiler (or limit of useful acoustic penetration) was up to 16.0m below the seabed. Boomer data could not be interpreted below this depth due to the strongly cemented and relative hard nature of the shallow geology encountered.

In places reflector R3 exhibits anomalously high amplitude reflection. This has been interpreted as indicating a higher degree of cementation in Unit D than in Unit C. This could also be an indication of the presence of shallow gas accumulation in the upper part of Unit D. No other criterion suggesting the presence of shallow gas were observed from the bathymetry, side scan sonar, boomer or seabed sampling data.

Using the method of shallow gas risk assessment outlined in section 3.6 of this report, the risk of shallow gas is defined as slight (gas unlikely) at the proposed Patricia-2 location.

3.6 STANDARD METHOD OF SHALLOW GAS RISK ASSESSMENT

The shallow gas hazard assessment consisted of the following:

- Analysis of side scan sonar / echo sounder data attributes, which included the following:
 - Disturbed seabed and / or numerous pockmarks.
 - Areas of high reflectivity seabed.
 - Evidence of gas within the water column.
- Lithological / structural evidence e.g. faults.
- Analysis of seismic data attributes which included the following:
 - Anomalously high amplitude reflectors: high acoustic impedance contrast.
 - Acoustic blanking: high signal attenuation.
 - Velocity pull down of underlying reflectors: velocity reduction.
 - Phase reversal: negative reflection coefficient.
 - Edge effects: diffraction hyperbolae.

The risk assessment criteria in this report is summarised in the following table and is dependant on the type and number of attributes observed and the magnitude or severity of these attributes.

Shallow Gas Risk Assessment Criteria

Level of Risk	Probability of Gas	Typical Seismic Characteristics
High	Gas most probable	High amplitude with 3 or 4 other well defined features (closure, phase reversal etc.).
Moderate	Gas likely	High amplitude with 2 other subsidiary gas-like features.
Low	Gas possible	Moderate amplitude with 1 or 2 other features or very high reflector amplitude alone.
Slight	Gas unlikely	Usually 1 or more features, but unremarkable reflector amplitude.

3.7 SEABED SAMPLING

Two gravity corer sample attempts were made returning one sample and one grab sample attempt was made which returned a sample within the Patricia-2 site survey area. The recovered samples were photographed and logged upon recovery and sealed in plastic bags and returned to Thales (Perth) for storage.

The sample descriptions are summarised in the table below and sample logs are presented in Appendix K.

Datum : AGD66 Projection: AMG Zone 55 South, CM 147° East

Sample Reference Number	Location		Brief Description
	Easting (m)	Northing (m)	
GC1	627 204	5 790 101	No Recovery
GC1a	627 198	5 790 098	Layered firm to stiff CLAY and loose shelly SAND
GS1	626 096	5 790 282	Loose coarse SAND, with some shell fragments (up to 40mm)

4. CONCLUSIONS

The nearest observable water depth to the proposed Patricia-2 location is 52.5m LAT. The seabed within a 100.0m radius of the proposed Patricia-2 location appears clear of any topographical features, debris or other obstruction which may be considered hazardous to drilling operations.

One sonar contact was identified, approximately 445m southwest of the proposed Patricia-2 location, with dimensions approximately 5.4m across and 1.7m in height interpreted as the Patricia-1 wellhead, which was drilled in 1987 and has not been removed. The Patricia-1 wellhead is surrounded by a small area of disturbed seabed believed to be associated with former drilling activities and also possibly indicative of drilling muds.

The predicted lithology at the proposed Patricia-2 location can be seen below:

Top of Unit	Depth Below Seabed (m)	Unit Thickness (m)	Predicted Lithology
A	0	2.0	Loose to medium dense shelly SANDS and soft to stiff CLAYS.
B	2.0	1.0	Medium dense to dense shelly SANDS and stiff CLAYS.
C	3.0	1.0	Variably cemented SANDS.
D	4.0	>8.0 to beyond the approximate limit of seismic penetration	Cemented sediments.

Anchoring conditions across the survey area will be dictated by the geotechnical properties of Units A, B and C which have a combined thickness of 4m to 8m across most of the site survey area. The sediments of Units A and B are believed to consist of loose to dense SANDS and firm to stiff CLAYS overlying variably cemented SANDS of Unit C. Cementation in the lower part of Unit C and Unit D is expected to be significant. Although it is not possible to predict geotechnical properties, it is reasonable to assume that these sediments will become more dense with increasing depth below the seabed.

Within the limit of useful boomer penetration, there is no evidence of shallow faults or any other characteristics of shallow gas in the vicinity of the proposed Patricia-2 location that could be considered hazardous to drilling operations. Using the method of shallow gas risk assessment outlined in section 3.5 of this report, the risk of shallow gas is defined as slight (gas unlikely) at the proposed Patricia-2 location.

5. SAFETY

Objective

The prevention of accidents and injury is the primary objective on this and all Thales projects, and great importance is placed on ensuring and maintaining the health and safety of employees. Furthermore, Thales wishes to protect all persons with whom employees may have association during work activities. It is therefore the policy of Thales; to observe and comply with all statutory provisions and to take additional measures that it sees fit in the pursuance of safety. Thales maintains a safe working environment by employing the following measures:

- a) Observe and comply with all statutory provisions.
- b) Ensure that all work places are suitably equipped and free from recognised hazards that are liable to cause death, injury or illness.
- c) Encourage employees to improve health and safety awareness in their own sphere of activity, to prevent injury to themselves and to other people and to report accidents and hazards to their superiors.
- d) Hold all supervisory personnel responsible for developing and maintaining safety equipment where appropriate.
- e) Provide employees with suitable safety equipment where appropriate.
- f) Seek ways of improving health and safety in the work environment.
- g) Encouraging the use of the 'Stand Back, 5 by 5' work safety ethic.

To facilitate the implementation of these measures Thales produces the following documents; Survey Safety Manual, Project Manual (includes Safety Management Plan), and Emergency Response Plan.

Project Induction and Safety Meeting

A general Project Induction and Safety Meeting was held at 0800 on 15 March 2002 onboard the Bluefin, prior to the start of mobilisation. A further safety meeting and fire & abandonment drill was held at 1730 on 16 March 2002. The subsequent safety meeting was held to go into further detail of the safety requirements expected from the Client, Thales and Australian Maritime College (AMC). The Client Representative, Thales and AMC personnel attended the Project Induction and Safety Meeting.

The Thales Party Chief discussed the Following topics:

1. Thales personnel introductions.
2. Project briefing of the survey campaign.
3. Introduction of Thales Operations Policies including Thales Health and Safety Policy, Environmental Policy, Drugs and Alcohol Policy, Injury Management Policy and Procedures, and Quality Policy.
4. The effective implementation of Thales Policies under the Thales Safety Management Systems (SMS).
5. Legislation and Regulations applicable to Thales Operations, particularly offshore operations.
6. Hazard Identification and Assessment (the introduction of Thales U-See, U-Act Safety System and the Stepback 5x5 process), Risk Assessment and Job Safety Analysis (JSA) with particular discussion directed toward equipment deployment / recovery and geotechnical coring operations.

7. Thales Emergency Response Plan and the process for accident / incident reporting and investigations.
8. Safety documentation supporting Thales SMS including Thales Manuals, Legislation and Acts, Safety Work Instructions, Safety Notes, Safety Forms, Codes of Practice and Guidance Notes.
9. The appropriate use of Personal Protective Equipment (PPE) including coveralls, safety footwear, safety helmets, safety glasses, hearing protection devices, safety gloves and the mandatory use of life vests during operations near the vessels stern.
10. Thales' Underwater Engineers to control all back deck operations involving equipment deployment / recovery and geotechnical coring.

The AMC Vessel Master discussed the Following topics:

1. AMC personnel introductions.
2. Vessel safety onboard the Bluefin.
3. Emergency procedures, muster points and alarms.
4. General reinforcement of Thales Safety Management System (SMS).

Vessel Inductions

AMC held vessel inductions onboard the Bluefin on 15 March 2002. All Thales personnel and the Client Representative were required to undertake the vessel induction.

Job Safety Analysis (JSA) Meetings

Job Safety Analysis meetings were undertaken prior to all facets of the survey. A JSA was held for the following operations; vessel mobilisation, equipment installation, vessel operations, deployment / recovery of equipment, velocity profile dip and coring operations. Particular emphasis was directed towards safety near the stern of the vessel, with all non-essential personnel required to remain clear of equipment deployment and geotechnical coring operations. The use of PPE was re-iterated. The process of communication between the back deck and bridge was outlined during each JSA to ensure personnel were informed during each phase of the operation.

JSA worksheets are detailed in the Thales Safety Management Plan.

Incidents

There were no safety incidents reported for the project.

6. GEODETIC PARAMETERS

Co-ordinates shown in this report are referred to the Australian Geodetic Datum 1966 (AGD66). The Global Positioning System (GPS) is referenced to the World Geodetic System 1984 (WGS84).

6.1 DATUMS

Datum	:	ITRF92 (Epoch 1994.0) WGS84 G730
Spheroid	:	WGS84
Semi-major Axis (a)	:	6 378 137.000m
Semi-minor Axis (b)	:	6 356 752.314m
Eccentricity Squared (e^2)	:	0.006 694 380
Flattening ($1/f$)	:	298.257 223 563

Datum	:	Australian Geodetic Datum AGD66
Spheroid	:	Australian National Spheroid
Semi-major Axis (a)	:	6 378 160.000m
Semi-minor Axis (b)	:	6 356 774.719m
Eccentricity Squared (e^2)	:	0.006 694 542
Flattening ($1/f$)	:	298.25

6.2 PROJECTION

Projection Name	:	Australian Map Grid 1966 (AMG66)
Projection Type	:	Universal Transverse Mercator (UTM)
AMG Zone	:	55
Central Meridian (CM)	:	147° East
Scale factor on the CM	:	0.9996
False Easting	:	500 000m
False Northing	:	10 000 000m
Latitude of Origin	:	0° (Equator)
Unit of Measure	:	International Metre

6.3 DATUM TRANSFORMATION

The following 7-parameter datum transformation was used to convert WGS84 co-ordinates to AGD66 co-ordinates:

Dx	=	+123.314m
Dy	=	+47.223m
Dz	=	-136.594m
Rx	=	+0.264"
Ry	=	+0.322"
Rz	=	+0.270"
Scale (K)	=	+1.384 p.p.m.

The sign convention applied by Thales in GNS2 software is that used by the US Department of Defence, where a positive sign about the z axis is an anti-clockwise movement of the x and y-axes (when viewed from the North Pole looking towards the centre of the Earth).

7. EQUIPMENT DESCRIPTIONS

7.1 GNS2

GNS2 (General Navigation System) is Thales' third generation of On-line Navigation Survey Control software. Thales' Software Support Group in C++ has written it for operation under Windows[®] 95 or Windows[®] 98 or Windows[®] NT. GNS2 adheres to the operation and dialogue conventions of the Microsoft Windows[®] environment. Attention has been paid to preserving a consistent operator interface, while at the same time modifying individual dialogue boxes to reflect specific logical circumstances. It has been designed for operation with a pointing device such as a mouse or a tracker ball but control can still be effected in case of the absence or failure of such a device.

The program has the ability to accommodate a large number and variety of mobiles, including surface vessels/ships, anchor-handling vessels, tugs, barges, ROVs, towfish, aircraft, vehicles and submersibles etc. The only limiting factors on the number of mobiles that can be tracked in GNS2 are the number of input/output serial communication ports available on the computer and the computer's memory.

For the input/output (I/O) of navigation and sensor data, GNS2 employs intelligent multi-channel serial communications boards to expand a computer's serial input/output facility. Currently GNS2 can support up to 26 communication (Comm) ports, which would consist of the computer's two internal Comm ports and three 8 channel serial communications boards fitted in the computer's internal expansion slots.

If Least Squares Computations (LSCs) are employed for positional calculations, whether two-dimensional (2D), three-dimensional (3D) or altitude aided, GNS2 uses standard iteration routines for the minimisation of residuals using 'variation of co-ordinate' algorithms. The number of I/O serial communication ports available on the computer and the computer's memory, limits the number of positioning systems/computations that GNS2 can handle.

All input observables are accepted on interrupt. Screen updates and other internal triggers are paced to once per second but time critical activities occur at discrete moments as required.

The GNS2 application workspace can extend beyond the display area, which is normally restricted to a single monitor connected to the computer. By using one or more multiple VGA cards, an enlarged display area can spread across multiple monitors.

Currently GNS2 can display 14 different types of view windows. Several copies of the same type of view window can be invoked at any one time. This may be required when several mobiles are being tracked and a Plan, Helmsman's or Bullseye display are required for each one or when the data on several Comm ports are to be viewed simultaneously. Each window can be individually sized to optimise use of the available display area.

GNS2 can be operated in 2 modes: GNS2 Master or GNS2 Remote. GNS2 Master has the full functionality of GNS2. GNS2 Remote is run on a separate computer and allows independent configuration of the graphics display and its associated numeric information. GNS2 Remote is operated on Anchor Handling Vessels or anywhere where positional information is required (e.g. Vessel Masters, ROV Pilots, Winch Control Stations). The link between GNS2 Master and GNS2 Remote can be via a telemetry link or hard-wired cable.

7.2 GLOBAL POSITIONING SYSTEM (GPS)

System Description

The NAVSTAR GPS (Navigational Satellite Timing and Ranging Global Positioning System) is a USA Military all-weather, space-based positioning system that transmits signals from a constellation of satellites orbiting the Earth. It is capable of providing suitably equipped users worldwide with accurate three-dimensional positions on, or near, the Earth's surface. The accuracy of these determined positions can vary from a few millimetres to several 10's of metres depending on the GPS receiver and on the method of data acquisition and processing. System design consists of three integrated parts: the Ground Control Segment, the Space Segment and the User Segment.

The operational space segment consists of 24 production satellites and 3 active spares; the term Space Vehicle (SV) is used as a synonym for satellite. The satellites are in high orbits, at approximately 20,200km, having an orbit period of 12 hours. They are arranged in 6 orbital planes, inclined at 55 degrees with near circular orbits. The configuration provides complete 4-satellite (3D) coverage worldwide.

GPS Observations

There are two important types of GPS observations (observables): Pseudo-range and Carrier Phase. Carrier phase is sometimes also referred to as carrier beat phase. Pseudo-range techniques are generally used for navigation. In high-precision baseline surveying the carrier phase is used. Although the (undifferenced) phase can be used directly, it has become common practice, at least in surveying applications, to process certain linear combinations of the original carrier phase observations (double differences and triple differences).

Pseudo-ranges

The pseudo-range is a measure of the distance between the satellite and the receiver at the epochs of transmission and reception of the signals. The transit time of the signals is measured by comparing (correlating) identical pseudo-random noise (PRN) codes generated by the satellite and by the receiver. A code-tracking loop within the receiver shifts the internal replica of the PRN code in time until maximum correlation occurs. The codes generated at the receiver are derived from the receiver's own clock, and the codes of the satellite transmissions are generated by the satellite system of clocks. It follows that unavoidable timing errors in both the satellite and the receiver clock will cause the measured quantity (pseudo-range) to differ from the geometric distance.

Where instantaneous positions are required, pseudo-range is the preferred observable. Given the satellite ephemeris (i.e. the position of the satellite at the epoch of transmission), there are seven unknowns: two clock errors, three receiver co-ordinates and the ionospheric and tropospheric delays. The effect of the satellite clock error is negligible for the typical navigation solution, particularly considering that the time errors are indistinguishable from the ionospheric and tropospheric delays. The satellite clocks are constantly monitored and synchronised with GPS time as maintained by the control centre. Actual offsets of the satellite clocks are approximated by polynomials in time and transmitted as part of the navigation message to the user for the correction of the measured pseudo-ranges. The ionospheric and tropospheric delays can be computed on the basis of ionospheric and tropospheric models, thus there are four unknowns left X, Y, Z and receiver clock error. These can be determined from four pseudo-ranges measured simultaneously to four GPS satellites.

Carrier Phase

The phase observable is the difference between the phase of the carrier signal of the satellite, measured at the receiver, and the phase of the local oscillator within the receiver at the epoch of measurement. This can be regarded as a biased range measurement of the satellite-receiver distance with the integer number of carrier waves being unknown. The wavelength of the L1 carrier is about 19cm. Because of the fraction of the carrier phase is measured, the term "interferometry" is often used to describe carrier phase techniques.

7.3 SKYFIX/SKYFIX SPOT DIFFERENTIAL GPS (DGPS)

Differential GPS (DGPS)

GPS is primarily a USA Defence space-based positioning system capable of operating worldwide and in all weather conditions. The USA Military can degrade the accuracy of GPS with the use of Selective Availability (SA) to control the accuracy of Pseudo-range measurements. Essentially, the user is given a false Pseudo-range for each satellite so that the resulting measurement is in error by a controlled amount. On the 1 May 2000 SA was discontinued conditionally and coincided with the successful demonstration of the ability to selectively deny GPS signals on a regional basis. SA has been set to zero and can be reinstated during periods of heightened global tension.

GPS signals are affected by several sources of positional bias, the largest of which was SA. The remaining biases of the ionosphere, the troposphere, time, satellite ephemeris and inherent receiver noise also give rise to substantial bias of position.

Differential GPS is a means by which the civil user can improve the accuracy and quality of GPS to the 1-3m level. It requires a receiver be located at a precisely known point from which pseudo-range corrections for each satellite can be determined and monitored. These pseudo-range corrections are then communicated by means of a telecommunications link to users at unknown locations. In the relative mode, most of the important systematic errors common to the known station and at the unknown location cancel out to improve the accuracy of the computed position.

SkyFix/SkyFix Spot Differential

SkyFix

Thales GeoSolutions (Australasia) Limited introduced its SkyFix Differential GPS System in Australia in February 1991, using the Inmarsat Pacific and Indian Ocean marine communications satellites as the differential data broadcast link. Extensive performance trials and projects undertaken to date have shown SkyFix to meet the best industry expectations in terms of quality of service and accuracy.

Satellite communications systems, particularly at the Inmarsat L-band frequencies of 1.5 GHz are reliable and free of the interference associated with the crowded MF/HF bands. This high data integrity gives users confidence that the corrections will be continuously received without interference.

The SkyFix Australian network comprises of reference stations at Dampier, Broome, Perth, Adelaide, Melbourne, Sydney, Cairns and Darwin.

SkyFix Spot

The SkyFix Spot Differential GPS System was launched in Australia in December 1994, using the OPTUS high powered focused communications satellite as the differential data broadcast link. Projects undertaken to date have shown SkyFix Spot to meet the industry expectations in terms of quality of service and accuracy.

The SkyFix Spot system has a link capacity of 1200 bits per second, similar to the SkyFix system but because it is only transmitting corrections from the Australian network an update rate of better than five seconds is achieved.

The OPTUS satellites uses the L-band frequencies of 1.5586 GHz and are very reliable and free of interference avoiding data loss associated with the crowded MF/HF bands.

The SkyFix Spot network comprises of reference stations at Dampier, Broome, Perth, Adelaide, Melbourne, Sydney, Cairns, Darwin, Alice Springs and also Ujung Pandang and Jakarta in Indonesia and Wellington, New Zealand.

The differential corrections generated at each reference station are brought via landline links to the data hub and control centre in Singapore, where the system is monitored for performance and quality. From there, a composite message containing full RTCM 104 version 2 formatted data from all reference stations are sent via dual redundant links to Satellite Earth Stations at Sentosa Island, Singapore, O.T.C. Perth, Western Australia and OPTUS, Perth, Western Australia, for uplink and broadcast over the Inmarsat Pacific and Indian Ocean Region satellites and the OPTUS Satellite.

The SkyFix/SkyFix Spot system includes a 24 hour monitoring facility to ensure the validity of data received at the control centre from the Differential GPS reference stations, and that the same data are received over the SkyFix/SkyFix Spot satellite data link.

7.4 TRIMBLE SERIES 4000 GPS RECEIVER

The Trimble Series 4000 GPS receiver is designed for moderate precision static and dynamic positioning applications. The GPS receiver provides time and three-dimensional station co-ordinates at a once-per-second update rate.

The receiver receives the civilian coded signal (C/A) from the GPS NAVSTAR satellites. The receiver automatically acquires and simultaneously tracks GPS satellites and precisely measures code phase and computes position and velocity.

Latitude, longitude and height values are output on the World Geodetic System (WGS 84) Earth-centred, Earth-fixed co-ordinate system.

The receiver is designed to measure the following observables:

- Coarse/Acquisition (C/A) code Pseudo-ranges
- Rate of change of Pseudo-range
- Integrated Carrier

C/A code correlation techniques measure the propagation time of the signal from the satellite to the antenna. Latitude, longitude, height and time can be determined from measurements made from at least 4 satellites, by a process similar to triangulation.

To determine speed and heading, the receiver calculates the rate of change of Range (the range-rate) by measuring the Doppler shift of the carrier.

It is capable of receiving and processing differential corrections from other reference sources using the standard format of the Radio Technical Commission for Maritime Services, Special Committee 104 (RTCM SC-104), Version 1.0 or 2.0 protocols.

The Trimble Series 4000 GPS receiver has several options available, including internal data logging memory, event marker logging etc. and therefore may be used alone or as part of a more extensive navigation system.

7.5 MULTIFIX 3

7.5.1 System Overview

MultiFix 3 is Thales GeoSolutions third generation *multiple reference station* differential GPS (DGPS) real time position computation and quality control program. It is an integral part of the Thales SkyFix Premier service but can also be used with the standard SkyFix service. MultiFix 3 has more advanced features than its predecessor, MultiFix 2, including being able to use dual frequency receivers and form real time 'iono-free DGPS position solutions'.

MultiFix 3 is one of a series of programs available under the group name Zero, which includes other tools and utilities with a similar user interface and layout structure, like static and dynamic position comparison programs, a correction monitor program, a terminal program and a replay utility.

MultiFix 3 takes in Almanac, Ephemeris and Raw Code and Carrier measurements from a single or dual frequency GPS receiver (or, for replay, from logged files). It takes in RTCM SC104 Version 2 differential correction messages from one or more RTCM correction delivery systems. It also takes in RTCM Type 15 or Thales Proprietary RTCM Type 55 Ionospheric range corrections generated at selected SkyFix Premier reference stations and broadcast via the Thales global network of high (SkyFix Spot-Optus) and low (SkyFix-Inmarsat) power satellite based L-Band beams.

Key features of the program are:

- No limit on the number of RTCM correction delivery systems (data links)
- No limit on the number of RTCM differential reference stations
- No limit on the number of computations (solutions)
- Each computation can employ corrections from any combination of reference stations available
- Computations are weighted least squares with statistical evaluation based upon the UKOOA recommendations
- No limit on the number of outputs
- No limit on the number of view windows
- View windows can be customised
- Extra NMEA outputs can be defined
- TCP/IP communication via sockets for GPS, RTCM and position data transfer between networked computers

MultiFix 3 has been designed in a modular fashion such that data is passed between modules as if over a computer network. The core module MultiFix 3 performs the computation of position. Additional modules are available and more will be made available in the future. While a single computer can be used, the various modules will equally be able to be run on different computers, provided there is a network interconnection.

MultiFix 3 uses the EGM96 geoid/spheroid separation model.

The RTCM corrections that are generated at reference stations are contaminated by a variety of error components, one of which is ionospheric delay. The ionospheric delay is currently more variable because of greater sun spot activity. MultiFix 2 and MultiFix 3's standard computation uses the Klobuchar ionospheric delay model. This model is updated periodically but is not responsive to the current short-term variability. MultiFix 3 has an additional calculation option when working with dual frequency receivers and in receipt of Type 15 or 55 RTCM messages. With dual frequency receivers, estimates can be made of the ionospheric delay by examining the differences between the measurements from the two frequencies. If the same procedure for estimation of ionospheric delay is performed at the reference stations and on the mobile, both the RTCM corrections and the pseudo-ranges can have the ionospheric delay removed, effectively providing an iono-free DGPS position solution.

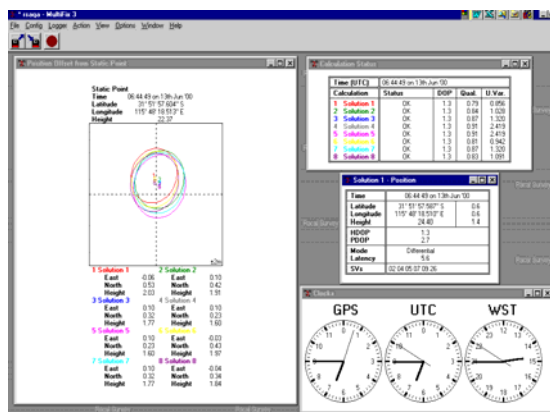
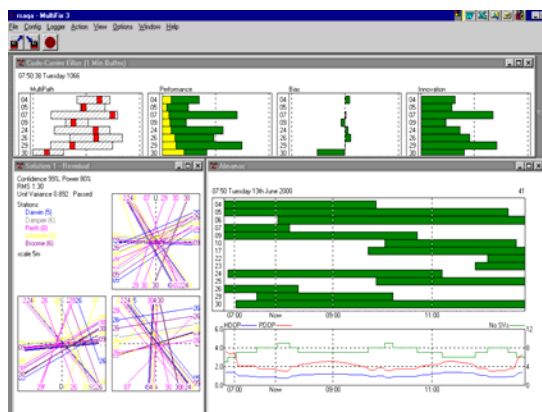
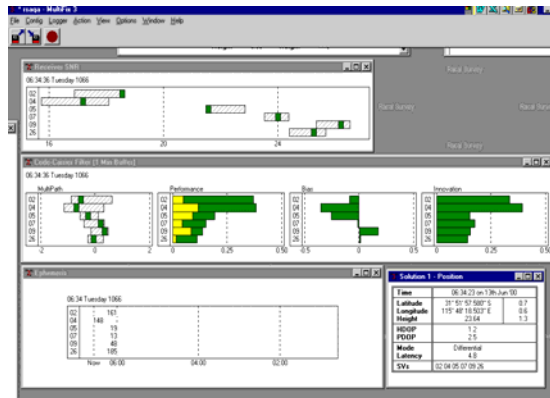
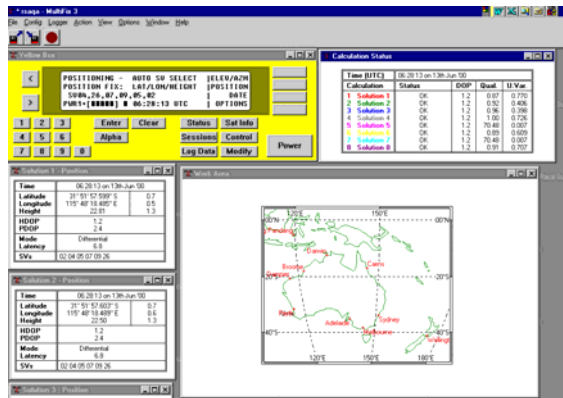
7.5.2 Hardware Requirements

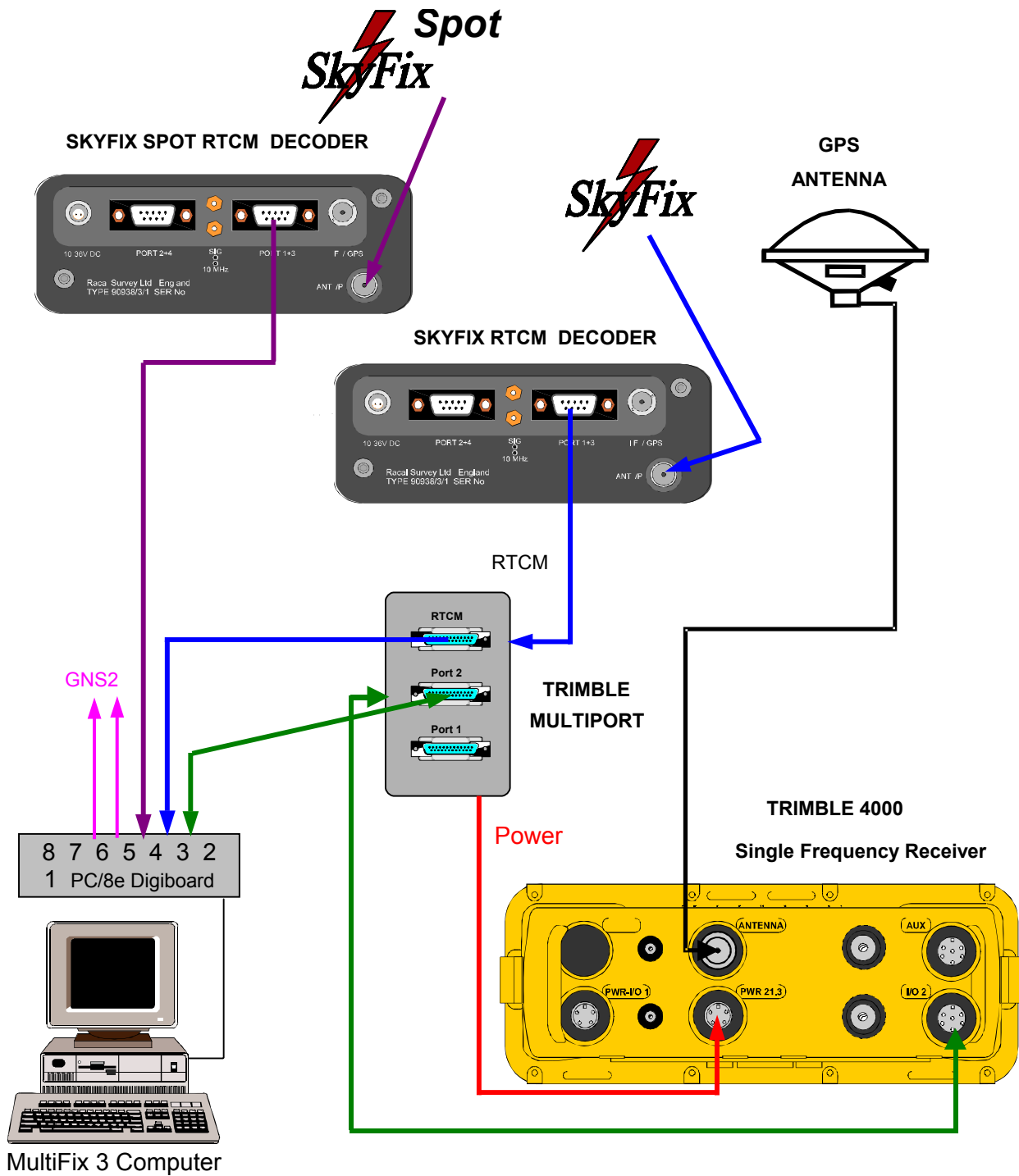
Optimum requirements for MultiFix 3 are:

- 350 MHz Pentium II computer
- 32 Mb RAM
- Windows 95, 98 or NT operating system
- Graphics resolution of at least 800 x 600 pixels
- Intelligent multi-port serial I/O board

7.5.3 Positioning and Quality Control Displays

MultiFix 3 has a large number of features to accommodate the user requirements of highly accurate positions with quality control (QC) information and outputs in different formats. MultiFix 3 runs in a Windows environment, which allows the user to design a preferred screen layout by opening, sizing and placing the numerous displays that are available. Examples of the various displays can be found below.





Typical MultiFix 3 Interconnection With Trimble 4000 GPS Receiver

7.6 ATLAS DESO 15 ECHO SOUNDER

The Atlas Deso 15 echo sounder is a dual frequency system operating at 33kHz and 210kHz. Digital technology is employed so that the equipment comprises one unit incorporating an analogue/digital thermal recorder, transceiver electronics and digitiser. The transducers may be hull or over-the-side mounted.

To measure water depth the Atlas Deso 15 echo sounder uses ultrasonic sound waves. A short burst of ultrasound is transmitted vertically downwards into the water by a transducer, which converts electrical energy into mechanical energy. A proportion of the sound energy is reflected by the bottom or by other solid media such as fish, and returns as an echo to the transducer. The time which elapses between the transmission of the signal and the return of its echo is proportional to the depth. The accuracy of the depth measurement depends on such factors such as the print speed and index errors, although the primary influence on depth accuracy is the measurement (and concomitant accuracy) of the velocity of sound through the water column, which is set by the operator in the echo sounder. Bar checks are also carried out to calibrate the system for index errors. Print speed checks are carried out as part of the mobilisation procedures. The echo sounder controls the generation, timing and length of outgoing pulses that are transmitted from the transducer.

High frequency transmissions will tend to be reflected by the seafloor whilst lower frequency signals penetrate soft mud and sediment to produce shaded echoes of the various layers on the analogue recorder. The echo sounder contains two digitisers, one for each transmitted frequency. Returns from several transmissions are stored, weighted and summed so that faint returns from the seabed will be recognised from the background noise. Digital information is indicated in the display window of the echo sounder and is also available for external use. The digitiser can be set to track either or both of the two frequencies.

System specifications are as follows:

Operational Voltage:	18 - 32 V DC or 240 V AC
Power Consumption:	Approx. 100 VA
Transducer Frequencies:	33kHz 210kHz
Beam Widths:	33kHz - 16° 210kHz - 9°
Depth Capability:	0.5 - 650 metres
Power Output:	300W, 600W & 1,000W
Measuring Accuracy:	33kHz - better than 10cm 210kHz - better than 1cm
Water Sound Velocity:	1400 m/s to 1600 m/s in 1 m/s steps

7.7 TSS DMS 2-05 MOTION SENSOR

The TSS DMS 2-05 Motion Sensor is used to provide heave, pitch and roll data to the single beam echo sounder system. The TSS DMS 2-05 is a small portable system for measuring the vertical displacement and altitude of a vessel when no stationary reference is available.

Sensor Package

The standard sensor package contains the solid state sensing elements that resolve the magnitude and direction of forces acting upon the sensor so that it can supply motion measurements. High speed circuitry converts the signals from the sensing elements into actual measurements of attitude and motion. These are then communicated via RS232 or RS422 to a receiving PC, or terminal, or to the appropriate receiving equipment (echo sounder, datalogger etc.).

Installation of the DMS System is simple, and the compact design allows it to be mounted close to the point for which measurements are required.

Software

Software resident within the sensor electronics package allows a PC or terminal to control the DMS System so that its configuration can be optimised for any particular installation. The software can be utilised to check the analogue output values, and to measure the roll and pitch mount angles.

Auxiliary Input

The DMS System can accept signals from auxiliary equipment such as a Global Positioning System (GPS) or a gyrocompass. The sensor uses these 'aiding' inputs to maintain the accuracy and stability of measurements throughout vessel turns.

Principle of Operation

The DMS includes an array of solid-state sensing elements that measures the instantaneous linear accelerations and angular rates affecting the sensor at any time. These measurements allow the system to derive the attitude of the platform on which the sensor is mounted with respect to the true vertical.

Additionally, velocity and heading information supplied by external GPS and gyrocompass systems can be used by the DMS system to maintain the measurement accuracy of the sensor throughout vessel turns.

The digital output from the sensor is updated and supplied as a digital data string transmitted to external equipment using either RS232 or RS422.

To support the requirement of applications that require an analogue input (i.e. the Elac Multibeam System), the sensor provides scalable analogue outputs for roll, pitch and heave.

System specifications are as follows:

Heave

Range	:	± 10 meters
Resolution	:	1cm
Bandwidth	:	0.05 to >10 Hz
Accuracy	:	The greatest of 5cm or 5%
Measurement Datum	:	All measurements are with respect to the centre of the bottom surface of vertically mounted Sensor.
Acceleration Range (vertical)	:	2g
Noise (at cut-off frequency 0.05 Hz)	:	<1cm RMS

Roll, Pitch

Range	:	±30°
Resolution	:	Digital 0.01°
Bandwidth	:	0 to >10 Hz
Accuracy	:	
(Dynamic) DMS 2-05	:	±0.05°
(Static) DMS 2-05	:	±0.05°
Angular rate change	:	100°/second
Noise	:	<0.05° RMS
Cross axis coupling	:	<1%

Electrical

Power Requirement	:	12V to 36V DC 12W at 24V
Digital Interface	:	RS232C, RS422 user selectable
Digital Output Data Rate	:	Dependent upon output format and baud rate. The Sensor will supply data packets at the highest possible transfer rate. Using the default settings (format TSS1 at 9600 baud), the digital output rate will be 32 packets/second.

Environmental

Temperature Range	:	
(Operating)	:	0 to +40°C {32°F to 104°F}
(Storage)	:	-20 to +70°C {-4°F to 158°F}
Shock (Survival)	:	30g peak 40ms half-sine
Vibration (Operating)	:	Meet Lloyd's Register ENV2 (1996) specification for vibration Meet ABS Table 4/11.1 (1996) No. 12 IEC Publication 68-2-6 (1995) Test F.
Transverse Acceleration	:	500mg peak 0.1s sine
Enclosure Ingress Protection	:	3000m {9840ft} depth rated
Tilt	:	±30° any plane
Operating Transit/Storage	:	No limit
Yaw Immunity	:	10° per second with 30° roll and pitch

7.8 GEOACOUSTICS DUAL FREQUENCY SIDE SCAN SONAR SYSTEMS

The GeoAcoustics Dual Frequency Side Scan Sonar system provides mapping of the seabed and consists of a GeoAcoustics combined towfish (159D), a pair of dual frequency sonar transducers (196D) and a Sonar Transceiver (SS941).

The GeoAcoustics combined towfish contains side scan sonar transducers which transmit short pulses of high frequency acoustic energy in fan shaped beams at right angles to the fish's track. The beams are narrow in the horizontal plane and wide in the vertical plane. In the nose of the towfish are the transmitting and receiving circuitry and on receipt of a trigger pulse from the ship-borne recorder the transducers are energized. The receiving circuitry amplifies the returned echoes and sends them via the tow cable to the recorder for display.

The transceiver unit allows the operator a simple means of controlling various Side Scan operating parameters. The unit includes standard controls such as: Gain, Time Varying Gain (TVG), Automatic Gain Control (AGC), with duplicated controls for port and starboard transducers. The operating frequency can also be switched from 100kHz to 500kHz directly from the transceiver. The choices of frequencies means that long range scanning and short range high resolution investigations are possible. The output of the transceiver can be recorded digitally if interfaced to a digital recording system.

System specifications are as follows:

GeoAcoustics 196D Dual Frequency Transducers

Source level	223 ± 3 dB re 1µPa @ 1 m
Beamwidth	50° by 1°/40° by 0.5°
Sensitivity	190 dB re 1 V/µPa
Depression	Angle 10° ±1° down.

Transmitter

Frequency	100/500 kHz ±1%.
Power output	1.2 kW/1 kW pulse ±20%.
Pulse length	167 µsec/88 µsec ±1%
Pulse repetition rate	50 pulses per second maximum.

Protection Open and short circuit protected.

Efficiency Greater than 80%.

Receiver

Port channel	100/500kHz, heterodyned to 135kHz.
Starboard channel	100/500kHz, heterodyned to 65kHz.
Bandwidth	20kHz. TVG Transmission loss curve compensated at both frequencies. Approximately + 40dB at 100m range.
Keyburst Frequency	455kHz \pm 2%.
Pulse length	300 μ sec for 110 kHz operation. 600 μ sec for 410kHz operation.
Power	150V DC at 100mA.
Size	Diameter 10.2cm Length 34.5cm Weight 3.2kg in air, 0.45kg in water.

7.9 BOOMER SUB-BOTTOM PROFILING SYSTEM – CSP1000

A Boomer sub-bottom profiling system consisting of an Applied Acoustics CSP1000 power source, EG&G Model 230 Boomer seismic source, and an EG&G Model 265 Type hydrophone is used to determine the nature of the sub-seafloor geology. The boomer catamaran and the 10-element hydrophone are towed astern of the vessel.

The raw analogue signal is firstly filtered using a Krohn-Hite 3700 filter before it is digitally displayed and recorded.

The system is operated and fired by an Applied Acoustics CSP1000 Triggered Capacitor Bank and Power Source. The data can be processed and recorded by a digital recording system, which includes a band pass filter.

The Boomer Sub-bottom Profiling system comprises the following components:

Applied Acoustics CSP1000 Power Source

The Applied Acoustics CSP1000 Power Source provides a high-voltage direct current for charging the capacitor banks used in sub-bottom profiling systems. The Applied Acoustics CSP1000 Power Source will charge at 1100 Joules per second. This allows the operator to select sound-pulse repetition rates as fast as six pulses per second at an energy level of 1000 Joules:

System specifications are as follows:

Size:	19" rack mounted 7U high 550mm deep
Weight:	55 kg
Operating Temperature:	0-37°C at maximum output
Mains input:	207-206 VAC 45-65Hz @ 2.5kVA 3 pin connector
Voltage Output:	3550 or 3800 volts DC 4 pin interlocked connector
Output Energy:	100 to 1000J in 100J increments
Charging Rate:	1100J per second
Capacitance:	144µF. 1 x 10 ⁸ shot life
Trigger:	+ive key opto isolated or closure set by front panel switch. BNC connector on front panel and remote.
Repetition Rate:	To 6pps
Earth:	M8 stainless steel stud on front panel

EG&G Model 230 Boomer Seismic Source

The EG&G Model 230 Boomer (or Uniboom) is an electromechanical source fixed to a surface towed catamaran. The boomer source consists of an induction coil against which an aluminium plate is applied by a system of springs. With each discharge, from the ship-borne capacitor banks, the eddy currents induced in the conductive plate cause it to move violently away from the coil. The initial movement of the plate triggers the acoustic pulse, the duration of the boomer signal is limited to about 0.2ms.

EG&G Model 265 Type Hydrophone

The EG&G Model 265 Type Hydrophone uses 10 elements connected in series and incorporates a current summing amplifier. The hydrophone elements and preamplifier are enclosed in a one-inch, oil filled tube designed to minimise turbulent noise from towing, this part of the hydrophone is called the active section. In addition to the active section, the hydrophone includes a tail for stabilisation, a tow cable that incorporates the conductors for transmitting the electric signals and a battery box attached to the shipboard end of the cable which supplies the DC voltage for operating the pre-amplifier.

System specifications are as follows:

Input Power:	9v DC Battery
Sensitivity:	-61 dB/volt/microbar
Bandwidth:	400Hz - 5kHz
Hydrophone Element:	
Sensitivity	-103 dB/volt/microbar (single element)
Gain (Preamplifier)	42 dB (including gain of 10 elements in series)
Output	2 kohms

7.10 GEOMETRICS G-880 MAGNETOMETER

The Geometrics G-880 magnetometer is a high resolution marine Cesium magnetometer system, which features very high sensitivity measurements of total field and gradient combined with rapid sampling. A Larmor counter provides direct connection to a host CPU for integrated side scan sonar applications. The G-880 is completely digital, unaffected by shipboard noise, easily deployed and simple to operate.

A key element in the high performance of the system is the conditioning and the counting of the Larmor signal. Using a proprietary design mounted into the electronics pressure vessel, sensitivity, measurement rates and data format are selected by operator commands. Counters from multiple sensors may be concatenated together to provide a sequential stream of RS232 data for transmittal through the tow cable. A basic software package for data logging and system control is provided with each model G-880.

Magnetic field variations are measured using the Geometrics G-880 magnetometer, towed from the stern of the vessel. Data are processed and recorded as ASCII files (containing numerical values for latitude, longitude, magnetic field, magnetometer altitude, time, and date) using Sandia Research Associates MagSea logging program software, on the magnetometer control notebook computer. Data are also displayed on a hardcopy using a printer.

Additional Plot software allows any portion of the data recorded on disk to be called up for display or printing; and CsAz for determining optimum sensor orientation.

Deviations from the ambient magnetic field (caused by metallic objects such as pipelines) produce anomaly spikes on the hardcopy printout that can be correlated with GPS navigation information to derive an anomaly location.

Magnetometer Electronics

Operating Principle: Self-oscillating split-beam Cesium Vapor (non-radioactive Cs133) with automatic hemisphere switching.

Operating Range: 17,000nT to 100,000nT

Heading Error: +/- 0.5nT

Sensitivity: 90% of all readings will fall within the following Peak-to-Peak envelopes:

1. 0.05nT at 0.1 second cycle rate
2. 0.03nT at 0.2 second cycle rate
3. 0.01nT at 1.0 second cycle rate

Operating Zones: For highest signal-to-noise ratio, the sensor long axis should be oriented at 45°, +/- 30° to the earth's field angle, but operation will continue through 45°, +/- 35°.

Gradient Tolerance: > 500nT / inch; >20,000nT / meter

Data Output: Three wire RS232, magnetics, up to 6 A/D channels for other sensors if present

Larmor Counter:

4. Integrated into sensor electronics in 'fish'
5. Ref Osc: Nominal 22MHz
6. Output data concatenated with other counters or data sources if present
7. A/D converters: 3 single and 3 differential, 12 bit resolution.
8. Control functions: Keyboard commands from surface

7.11 CODA DA200 DIGITAL RECORDING/PROCESSING SYSTEM

The CODA-DA200 Sonar Data Acquisition and Playback System is used to convert the analogue signal from the GeoAcoustics Transceivers to digital format, and to record the digital data on magneto-optical disk. The CODA is a Unix-based hardware and software system developed for recording and processing of analogue or digital signals from a dual channel side scan sonar.

In real time the data can be recorded to the hard disk, to removable disk drives, or to magneto-optical disk. Processing parameters such as slant range correction, TVG enhancement, image enhancement, zoom facilities, real-time cursor navigation position and on-screen management, scrolling speed adjustment, multi-resolution data display and single/dual channel waterfall display, can be applied while on-line or during playback. Only the raw data will be recorded to magneto-optical disk.

CODA-DA200

Physical

Flight-cased industrial 19" rackmount chassis - 21" x 22" x 13"
Monitor flight casing - 20.75" x 19.75" x 19.5"

Hardware

Dedicated acquisition board
Dual Independent input/output triggers
High-spec Pentium PC
High Resolution 17" monitor
Mouse or Trackball

Data Storage/Retrieval

Shock mounted high speed DDS DAT (4mm) SCSI tape (Exabyte tape, Optical Disk optional)
Shock mounted 1GB SCSI HDD

Data Format

CODA, SEG-Y, SDEF, Q-MIPS™ compatible

Hard Copy

Continuous real-time output to various thermal recorders:
Ultra Wideline 200, Ultra Wideline 195
Ultra 3710, EPC1086, Alden 9315
Screen dump to disk or printer in EPS or TIFF format
SCSI, GPIB, Parallel interface

DATA INTERFACES

Analogue Input

200 kHz throughput
Fully independent triggers
Input signal range ± 1.25 to $\pm 10V$
12-bit resolution, dynamic range 72dB (16-bit optional)
Up to 10,240 samples per channel

Triggering

2 fully independent triggers
Master Trigger Output
Trigger period 33ms to 65s
TTL (user-specifiable duty cycle)
Slave Trigger Input
Trigger period minimum 33ms
TTL (min. pulse width 40ns)
Negative/Positive Edge Triggered

Digital Input/Output

TCP/IP Ethernet link, or customer-specified (e.g. SCSI, GPIB), RS-232, DMA compatible parallel
External event input by TTL

Navigational Interface

RS-232 serial interface
Data rate up to 9600 baud, user-configurable
User-configurable RS-232 data format
Corrected navigation input from floppy disk

SOFTWARE

General On-line Processing

Simultaneous, real-time, dual sensor display windows
Real-time, on-line corrective processing including independent channel TVG
Automatic seabed detection and display
Full colour image enhancement

Side scan On-line Processing

Slant range correction
Across-track smoothing

Shallow Seismic On-line Processing

High, low, and band-pass filtering
Trace mixing and anti-mixing
User selectable sound velocity for measurements
Swell filtering

High-Resolution Display

Multi-channel window displays including horizontal and vertical waterfall display and 3D mesh plot (optional)
Multi-resolution, independent channel display
3-mode zoom
Freeze-frame with auto-release during acquisition
A-scan oscilloscope display
Geo-referenced screen and cursor
On-screen measurement and event marking
User configurable scale lines

High Speed Tape Operating System

Random data access with intuitive controls including GoTo, Stop, Play, Fast Forward, Rewind, Cue and review

Tape copying facility including data format and tape conversion

Continuous recording with dual type system

CODA, SEG-Y, SDEF, Q-MIPS™ compatible data formats

Acquisition

Navigation input and survey parameter QC

Software-configurable acquisition setup

Time-synchronised navigation input

User-programmable nav. string input

General

X windows/Motif user interface (version X11R6)

UNIX SVR4 operating system

Additional software modules available for pipeline inspection (PI100), site survey interpretation and reporting (GeoKit), survey overview (Trackplot and Trackplot Plus), on-line mosaicing (Coda Mosaic), swathe bathymetry acquisition and processing (Coda Swathe module)

7.12 S.G. BROWN 1000S GYROCOMPASS

The S.G. Brown 1000S Gyrocompass is a compact, simple-to-operate master heading reference instrument employing the effect of gravity and the earth's rotation to produce a True North reference. This reference may be read off the compass card or from a digital display and can be interfaced to the GNS2 navigation system.

The normal starting cycle of the instrument is fully automatic and is initiated when the system power supply is switched on. A fail safe control circuit is incorporated which ensures that the compass is not damaged after a power failure when power is restored; the compass will restart automatically and carry out its normal settling program.

7.13 APPLIED MICROSYSTEMS MODEL SVPLUS SOUND VELOCITY PROFILER

The SVPlus is a multi-parameter, self-contained, intelligent instrument designed for the measurement of sound velocity, temperature and pressure. The SVPlus features microprocessor based CMOS circuitry, two A/D converters (1 part in 40,000, 1 part in 16,000) and 128 Kbytes of battery backed-up random access memory (RAM) for data storage. The SVPlus has the options of logging data continuously, by depth increments, by time increments, by sound velocity increments, or logging individual scans.

Prior to deployment the SVPlus is connected to an IBM compatible computer via a 3-conductor cable, the instruments output is standard ASCII RS-232. When connected to a computer the SVPlus is programmed using Applied Microsystems Ltd's Total System Software. The SVPlus is configured for logging, choosing sample time units, sampling interval, depth logging increment, sound velocity increment and log file name. Logging begins when the SVPlus is immersed in water and when the instrument receives a valid sound velocity value it begins recording the data. Logging stops when the instrument cannot detect a sound velocity signal and it will assume it is out of the water.

Deployment of the SVPlus is either by hand or winch. As the instrument is lowered to and raised from the seabed, data is stored in memory.

When recovered the SVPlus is re-connected to a computer to view, edit and graph the data logged by the instrument. When a file (or cast) has been completely loaded an analysis of the data automatically begins. The purpose of this analysis is to compute the engineering values of the data and to determine the maximum and minimum values for graphing.

The SVPlus records the temperature, pressure and sound velocity at user specified logging increments. The sound velocity is measured by injecting an acoustic pulse into the water and measuring the time taken for that pulse to travel across a fixed distance.

The SVPlus's sensors must be calibrated occasionally. These should remain within published specifications for periods of 1 - 2 years, depending on the amount of use, and depth of deployment. Sensors are calibrated by recording the instruments raw data at known reference points. This data is applied to a curve fitting algorithm to produce calibration coefficients which are permanently stored in the instruments memory.

System specifications are as follows:

Pressure:	Type: Keller stainless steel pressure transducer Range: Assorted pressure ranges up to 5000 dBars Accuracy: 0.15% of Full scale Resolution: 0.005% of Full scale Response Time: 10 ms
Temperature:	Type: Pressure protected precision aged thermistor Range: -02°C to 32°C Accuracy: ±0.005°C Resolution: 0.001°C Response Time: 100 ms
Sound Velocity:	Type: 1 Megahertz piezoelectric transducer. INVAR stabilised path length (±5.5nm/°C) Range: 1400 - 1550 m/s Accuracy: <0.06 m/s (r.m.s) Resolution: 0.015 m/s
Sample Rate:	When recording internally without sending data, the scan rate is selectable

from 10 scans/second to one every 24 hours.

Memory: 128 Kb battery backed-up RAM, expandable to 40 Mbytes. The standard RAM can record 6400 scans of date, time, pressure, sound velocity and battery.

8. EQUIPMENT CALIBRATIONS AND CHECKS

8.1 GYROCOMPASS CALIBRATION

The S.G.Brown survey gyrocompass was calibrated at 1130 on 16 March 2002. Calibration of the survey gyrocompass was performed using total station observations, while the Bluefin was alongside the Australian Maritime College (AMC) Wharf, Beauty Point, Tasmania.

Survey Mark AMC5 on the AMC Wharf was occupied by total station. The observed reference object was Survey Mark AMC2 on the AMC Wharf. A series of horizontal angles and distances were measured to reflective prisms located along the centreline of the vessel, at the bow and stern. Simultaneous survey gyrocompass observations were recorded within the Thales GNS2 software. The gyrocompass Calculated minus Observed (C-O) was reset to zero before commencing logging data to file.

The vessels Calculated (C) heading was compared to the Observed (O) survey gyrocompass heading to determine the gyrocompass C-O. The gyrocompass C-O was entered into GNS2 and used throughout the site survey campaign. The results of the calibrations are tabulated below.

Control Point Co-ordinates

Datum: AGD66 Projection: AMG Zone 55, CM 147° East

Control Mark	Easting (m)	Northing (m)
AMC5	485 188.128	5 443 443.762
AMC2	485 232.088	5 443 475.890

Observations

Date: 16 March 2002

Instrument Station: AMC5

Backsight Station: AMC2

Time (hh:mm:ss)	Observation Point	Observed Bearing	Observed Distance (m)	Observed (O) True Heading
11:34:40	Bow	343° 21' 35"	70.910	338.80°
11:35:20	Stern	001° 12' 00"	61.880	339.20°
11:35:50	Bow	343° 30' 25"	70.840	339.00°
11:36:20	Stern	001° 03' 05"	61.935	339.00°
11:36:50	Bow	343° 20' 05"	70.830	338.80°
11:37:20	Stern	001° 03' 40"	61.930	338.50°
11:37:50	Bow	343° 23' 55"	70.730	338.20°
11:38:20	Stern	001° 10' 45"	61.890	337.80°
11:40:10	Bow	343° 19' 05"	70.720	338.80°
11:40:40	Stern	001° 10' 55"	61.980	338.20°
11:41:00	Bow	343° 20' 25"	70.750	337.70°
11:41:40	Stern	001° 16' 25"	61.835	338.70°
11:42:20	Bow	343° 17' 40"	70.935	339.00°
11:43:00	Stern	001° 06' 30"	61.970	339.30°
11:43:30	Bow	343° 23' 40"	70.910	339.00°
11:44:00	Stern	001° 06' 30"	62.000	338.30°
11:44:30	Bow	343° 22' 40"	70.685	338.20°
11:45:00	Stern	001° 12' 45"	61.815	339.00°

Time (hh:mm:ss)	Observation Point	Observed Bearing	Observed Distance (m)	Observed (O) True Heading
11:45:40	Bow	343° 19' 45"	70.500	338.80°
11:46:10	Stern	001° 21' 05"	62.020	338.70°

Results

Calculated (C) Vessel Heading (True)	Observed (O) Survey Gyrocompass (True)	C-O
339.66°	339.00°	+0.66°
339.73°	339.00°	+0.73°
339.42°	338.65°	+0.77°
339.32°	338.00°	+1.32°
338.94°	338.50°	+0.44°
339.34°	338.20°	+1.14°
339.44°	339.15°	+0.29°
339.48°	338.65°	+0.83°
339.25°	338.60°	+0.65°
339.54°	338.75°	+0.79°
	Mean	+0.76°

The mean gyrocompass C-O = +0.76° was entered into the GNS2 configuration parameters.

The printouts for the pre-survey gyrocompass calibration are located in Appendix D.

8.2 STATIC DIFFERENTIAL GPS CHECK

A static check of the SkyFix/SkyFix Spot Differential GPS was carried out at 1150 on 16 March 2002 while the Bluefin was alongside the AMC Wharf.

Survey Mark AMC5 on the AMC Wharf was occupied by total station. The observed reference object was Survey Mark AMC2. A series of horizontal angles and distances were measured to the vessel datum (echo sounder transducer pole) installed onboard the Bluefin. Simultaneous Differential GPS position fixes were recorded within Thales GNS2 software.

The calculated datum position was then compared to the observed datum position to provide verification of the Differential GPS positioning system. The results of the static Differential GPS check are tabulated below.

Control Point Co-ordinates

Datum: AGD66 Projection: AMG Zone 55, CM 147° East

Control Mark	Easting (m)	Northing (m)
AMC5	485 188.128	5 443 443.762
AMC2	485 232.088	5 443 475.890

Results

Date: 16 March 2002
 Instrument Station: AMC5
 Backsight Station: AMC2

Time (hh:mm:ss)	Calculated Co-ordinates		Observed DGPS Co-ordinates		Linear Misclose (m)
	Easting (m)	Northing (m)	Easting (m)	Northing (m)	
11:49:50	485 234.330	5 443 500.347	485 235.440	5 443 500.200	1.12
11:50:15	485 234.300	5 443 500.436	485 235.460	5 443 500.320	1.17
11:50:35	485 234.452	5 443 500.466	485 235.350	5 443 500.040	0.99
11:50:55	485 234.447	5 443 500.490	485 235.300	5 443 499.640	1.20
11:51:15	485 234.450	5 443 500.494	485 235.120	5 443 499.300	1.37
11:51:30	485 234.397	5 443 500.460	485 234.930	5 443 498.870	1.68
11:51:45	485 234.310	5 443 500.415	485 234.910	5 443 498.780	1.74
11:52:05	485 234.401	5 443 500.327	485 234.790	5 443 498.780	1.60
11:52:20	485 234.346	5 443 500.243	485 234.700	5 443 498.870	1.42
11:52:35	485 234.375	5 443 500.181	485 234.740	5 443 499.020	1.22
			Mean		1.35

Mean Linear Misclosure = 1.35m

Printouts of the static Differential GPS checks are located in Appendix E of this report.

8.3 VELOCITY OF SOUND IN SEAWATER PROFILES

A velocity of sound in seawater profile was carried out at the Patricia-2 survey site on 17 March 2002, using a SV Plus Sound Velocity Probe.

A mean velocity of sound of 1515.7m/s was determined and entered into the echo sounder.

The water column velocity profile is detailed in Appendix I of this report.

8.4 ECHO SOUNDER TRANSDUCER DRAFT MEASUREMENT AND MOTION SENSOR TEST

8.4.1 Echo Sounder Transducer Draft Measurements

The Atlas Deso 15 echo sounder transducer draft settings were established by undertaking a bar check. A bar check was performed after vessel mobilisation on 16 March 2002, while Bluefin was alongside the AMC Wharf. The draft was measured as 1.54m for the 33kHz and 210kHz transducers.

Copies of the bar check are included in Appendix F of this report.

8.4.2 Motion Sensor Test

A motion sensor test was carried out prior to departure from the AMC Wharf on 16 March 2002. This involved physically lifting the DMS-05 Motion Sensor up and down whilst watching the echo sounder screen for the correct movement in the raw heave trace.

8.5 SIDE SCAN SONAR RUB TESTS & WET TESTS

Side scan sonar rub tests and wet tests were performed on the primary and back-up towfish alongside the AMC Wharf on 16 March 2002. The purpose of these tests was to ensure that the fish mounted transducers were operating within specification and connected to the correct recorder channels. The Client Representative accepted the results.

The results of these tests are presented as Appendix G of this report.

8.6 BOOMER WET TESTS

A boomer wet-test was performed while the Bluefin was alongside the AMC Wharf on 16 March 2002. The purpose of the test was to check the overall operation and performance of the seismic equipment. The Client Representative was present during the test and accepted the results.

The results of this test are presented as Appendix H of this report.

9. SUMMARY OF EVENTS

The Bluefin commenced mobilisation at the AMC Wharf on 15 March 2002 to conduct a series of site surveys for OMV, in Gippsland Basin in the Bass Strait.

A vessel induction, pre-mobilisation safety meeting including a JSA for the mobilisation was conducted for Thales and Bluefin personnel on arrival at the vessel. The induction and safety meeting commenced at 0800 on 15 March 2002.

Thales survey equipment was loaded onto the Bluefin at 0830 and all crane, welders and labour work were completed by 1545. The Gyrocompasses were powered up at 1300. At 1600 a power failure was encountered but power returned by 1630. At 2000 Thales personnel departed the vessel for the night.

At 0700 on 16 March 2002 mobilisation recommenced. Boomer wet test and side scan sonar rub tests and wet tests were completed by 1000. An echo sounder bar check, gyrocompass calibration and DPGS health check were completed by 1345. Another power failure was encountered from 1515 to 1530. By 1600 the magnetometer was operational. An emergency muster including a fire and abandonment drill was held at 1730.

At 1800 on 16 March 2002 the vessel departed the AMC wharf. The vessel arrived at the Patricia-2 site survey location at 1845 on 17 March 2002. From 1845 17 March 2002 until 0400 on 18 March 2002 the vessel went on weather standby. Equipment was tuned from 0400 until 1030.

Data acquisition on the Patricia-2 site survey was conducted from 1043 until 2119 on 18 March 2002. Data acquisition on the Baleen-3 site survey was conducted from 2148 on 18 March 2002 until 1233 on 19 March 2002. Magnetometer and seabed sampling were carried out to complete both site survey areas until 2053.

From 2200 on 19 March 2002 until 0828 on 20 March 2002 data acquisition was carried out on the Patricia-Baleen pipe route survey. At 0900 on 20 March 2002 the vessel commenced transit to the Sole-2 site survey location but poor conditions forced the vessel to divert to shelter. At 1700 the vessel dropped anchor for weather down time in the lee of Gabo Island. The anchor was recovered at 2359 on 21 March 2002 and the vessel transited to the Sole-2 site, arriving at 0800 on 22 March 2002. All survey operations were completed on Sole-2 at 2000 on 23 March 2002.

At 2041 on 23 March 2002 data acquisition commenced on the scouting line from Sole-2 to meet with the Patricia-Baleen survey line. This was completed at 0330 on 24 March 2002 and transit commenced to Port Welshpool at 0400.

10. PERSONNEL AND EQUIPMENT

10.1 PERSONNEL

The following personnel were employed on this project:

For: Thales GeoSolutions (Australasia) Limited

Chris Shuttleworth	-	Team Leader/Senior Surveyor
Marc Dybala	-	Surveyor
Laurie Etheridge	-	Senior Underwater Engineer
Jeremy Antao	-	Underwater Engineer
Patrick Fournier	-	Offshore Geophysicist
Luis McArthur	-	Interpretation Geophysicist

For: OMV Australia Pty Limited

Rick Glanville	-	Client Representative
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10.2 EQUIPMENT

NAVIGATION

2 x Trimble 4000 Series GPS Receivers
3 x SkyFix/LandStar Demodulators
2 x LandStar Whip Antennae
1 x Skyfix Minidome plus controller
2 x Compaq Pentium Desktop GNS2 Computers
1 x Compaq 486/66 MHz Desktop MultiFix3 Computer
2 x Epson LX300 Printers
2 x SG Brown 1000S Gyro Compass
2 x Helmsman's GNS2 Remote Display
1 x 3KVA Un-interruptible Power Supply

GEOPHYSICAL

ECHO SOUNDER

2 x Atlas Deso 15 Single Beam Echo Sounder
2 x Overboard Transducer (Dual Frequency)
1 x Model XR-666 230vac to 24vdc Power Converter
2 x SV-Plus Velocity Probe
1 x E/S Bar Check
1 x TSS DMS 2-05 Motion Sensor
1 x TSS 335 Motion Sensor

SIDE SCAN SONAR

2 x GeoAcoustics Transceiver Units
2 x Dual Frequency (100 and 500 kHz) Towfish Assemblies
2 x Side Scan Sonar Deck Cables
2 x CODA DA200 Acoustic Recorder
2 x Alden 9315 CTP printer
1 x Seamac Winch
1 x Electric/Hydraulic Winch

BOOMER SYSTEM

2 x EG&G Surface Tow Source
2 x CSP 1000 Cap/Disch Power supplies
1 EG&G Power Supply Model 232-A
1 EG&G Triggered Capacitor Bank Model 231
2 x EG&G Type Hydrophones
2 x TSS 307 TVG amplifiers
Auto transformer
2x Krohne-Hite Filters

MAGNETOMETER

2 x Geometrics G-800 marine caesium magnetometers
2 x Magnetometer Deck Leads
2 x Geometrics MagSea Computer System

11. DISTRIBUTION

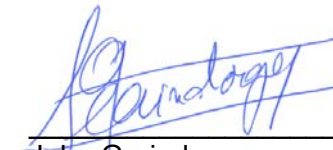
Copies of this report have been distributed as follows:

OMV Australia Pty Ltd : 4 copies
Attn: Mr Ron King

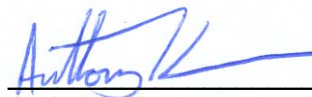
Thales GeoSolutions (Australasia) Limited : 1 copy



Luis McArthur
Interpretation Geophysicist



John Graindorge
Senior Geophysicist



Anthony Kerr
Survey Manager

APPENDIX A

SAFETY REPORTS

VESSEL INDUCTION/PRE-MOBILISATION MEETING**MINUTES**

Date : 15 March 2002
Time : 0800

Job No. : 3346C1 Patricia-2 Site Survey
Location : AMC, Beauty Point

Present : TGA Personnel and Bluefin Marine Crew

The Party Chief opened the meeting & made the following points.

- 1) Everything to be proven & tested prior to departure.
- 2) A detailed discussion on where all the equipment to be positioned & what required welding & testing.
- 3) An explanation of the site, including size, water depth & procedures.
- 4) Talk of the safety requirements during mobilisation, including hot work certificates, PPE, crange, etc.
- 5) Explanation of survey crew shift pattern & responsibilities.
- 6) Safety environment & hierarchy, need to keep hazard free as possible.

The First Officer.

- 1) No smoking within the vessel. Restrictions on smoking on deck.
- 2) Restriction on personnel in working areas on back deck.
- 3) Safety chains on stern when applicable.
- 4) No work boots in accommodation, keep clean environment.

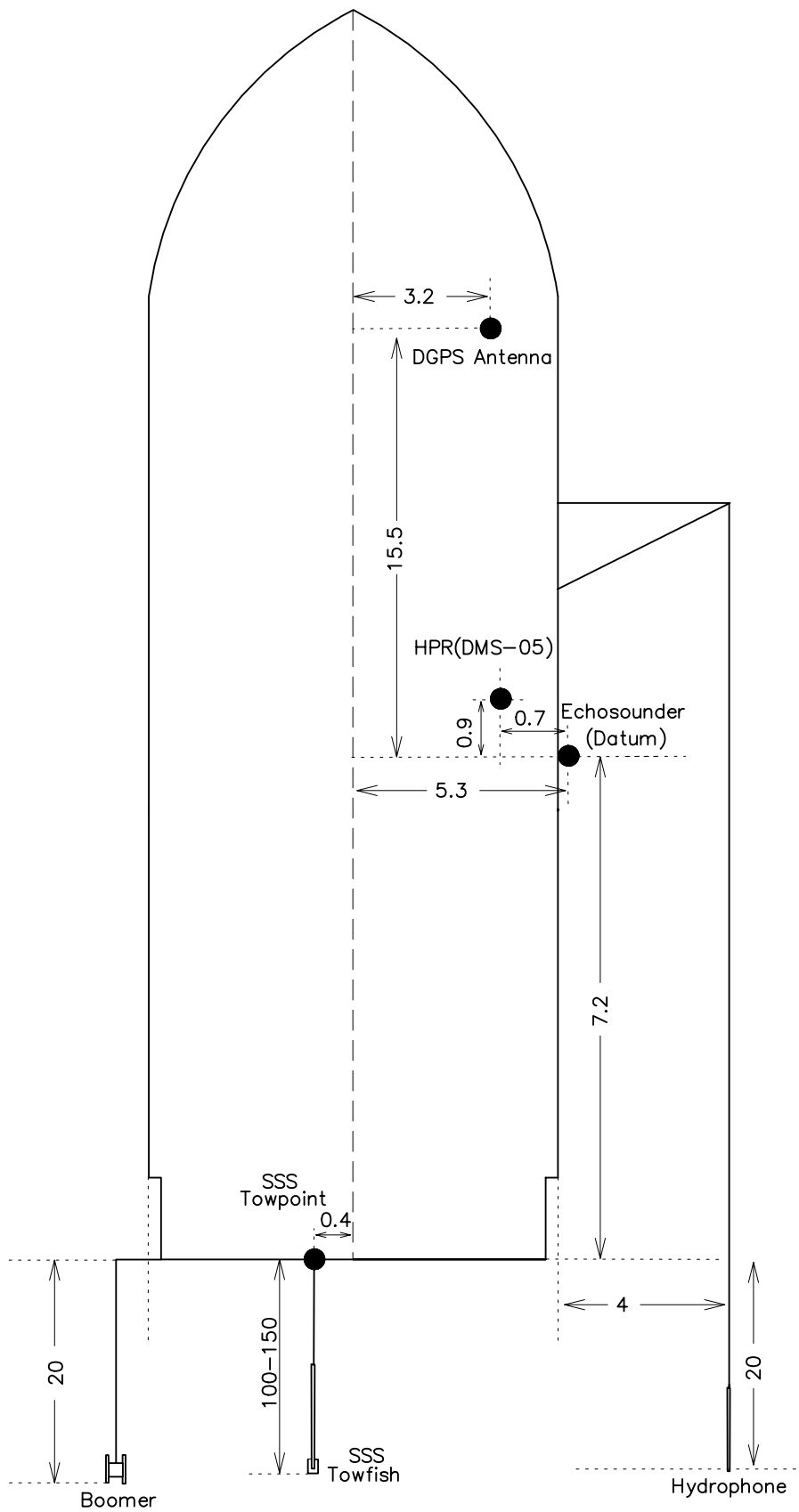
The Party Chief then thanked all attendees, the survey crew were then taken on the vessel induction tour by the First Officer.

APPENDIX B

OFFSET DIAGRAM - BLUEFIN

FTV BLUEFIN

(NOT TO SCALE)



UNITS IN METRES

APPENDIX C

GNS SYSTEM DATA PRINTOUT

GNS II CONFIGURATION FILE C:\3346C1_Site Surveys\Bass Strait.gns

JOB DETAILS

Job Number : 3346C1
Job Description : Site Surveys
Company : Thales GeoSolutions Group Ltd
Client : OMV
Time Zone : GMT +11:00

WORKING SPHEROID

AGD 1966
Semi-major : 6378160.000 m
e Squared : 0.006694541855

WORKING PROJECTION

AMG Zone 55
Lat of Origin : 00°00'00.000"N
Long of Origin : 147°00'00.000"E
False Easting : 500000.00
False Northing : 10000000.00
Scale Factor : 0.999600
Units : Metres

GPS TRANSFORMATION

From : WGS 84
Semi-major : 6378137.000 m
e Squared : 0.006694380067
To : AGD 1966
Dx : 123.314 m
Dy : 47.223 m
Dz : -136.594 m
Rot x : 0.2640 secs
Rot y : 0.3220 secs
Rot z : 0.2700 secs
Scale : 1.3840 ppm

MOBILES

Blue Fin (ship)

Shape Definition: Bluefin

Line:-

X: -10.30 m Y: -7.00 m
X: -10.30 m Y: 13.00 m
X: -5.30 m Y: 23.00 m
X: -0.30 m Y: 13.00 m
X: -0.30 m Y: -7.00 m
X: -10.30 m Y: -7.00 m

Tracking Point : Datum

Pitch and Roll Centre: HPR

Selected Sources:-

Primary Position : T1 Thales UKOOA (Using Antenna Offset : GPS)
Backup Position : T3 Thales UKOOA (Using Antenna Offset : GPS)
Primary Heading : S1 SGB 1000S
Primary Height : Datum Displacement

Verified by: (sign) _____ (print) _____

GNS II CONFIGURATION FILE C:\3346C1_Site Surveys\Bass Strait.gns

Pitch and Roll : T2 TSS DMS-05
Heave Sensor : T2 TSS DMS-05
Soundings : A1 Atlas Deso 15 Ch1
Speed : Position Filter
Course Made Good : Posn Filter CMG

Equipment:-

T1 Thales UKOOA

Status: ON Interface: COM3
Antenna Offset Selected: GPS
X: -2.10 m Y: 15.49 m Z: 0.00 m Rng: 15.63 m Brg:352.3°
Apply Pitch Roll: Instantaneous Stale Time: 5.0 s Posn SD: 3.0 m Ht :
Update posn regardless of whether diff corrected
Filter: Off Time Constant:60.0 s Sample Dwell: 0.5 s
Gate: Off Gate Width: 9.0 xSD Minimum Gate: 0.0 m

T3 Thales UKOOA

Status: ON Interface: COM4
Antenna Offset Selected: GPS
X: -2.10 m Y: 15.49 m Z: 0.00 m Rng: 15.63 m Brg:352.3°
Apply Pitch Roll: Instantaneous Stale Time: 5.0 s Posn SD: 3.0 m Ht :
Update posn regardless of whether diff corrected
Filter: Off Time Constant:60.0 s Sample Dwell: 0.5 s
Gate: Off Gate Width: 9.0 xSD Minimum Gate: 0.0 m

S1 SGB 1000S

Status: ON Interface: COM5
C-O: 0.8 degs Stale Time: 5.0 s SD: 0.1 degs
Filter: Off Gate: Off Time Constant: 5.0 s Sample Dwell: 0.5 s

T2 TSS DMS-05

Status: ON Interface: COM7
Pitch C-O: 0.0 degs Roll C-O: 0.0 degs Stale Time: 0.2 s

C1 CODA DA200

Status: ON Interface: COM8
Antenna Offset Selected: Datum
X: 0.00 m Y: 0.00 m Z: 0.00 m Rng: 0.00 m Brg: 0.0°

A1 Atlas Deso 15

Status: ON Interface: COM6
Tdr 1: Datum
X: 0.00 m Y: 0.00 m Z: 0.00 m Rng: 0.00 m Brg: 0.0°
Tdr 2: Datum
X: 0.00 m Y: 0.00 m Z: 0.00 m Rng: 0.00 m Brg: 0.0°
Stale Time: 5.0 s

Corrections Applied:-

Is Heave Compensated: Yes Tdr Draught entered in E/S: 0.00 m

Apply Corrections:-

Heave Compensate: No Correct for Draught: No Correct for Pitch and

Sounding Selection:-

Mode: All Gate: No Gate Window: 25.00

Annotation: Yes Every: 1 fixes

Verified by: (sign) _____ (print) _____

GNS II CONFIGURATION FILE C:\3346C1_Site Surveys\Bass Strait.gns

Defined Offsets:-

Datum

X: 0.00 m Y: 0.00 m Z: 0.00 m Rng: 0.00 m Brg: 0.0°

GPS

X: -2.10 m Y: 15.49 m Z: 0.00 m Rng: 15.63 m Brg:352.3°

Stern

X: -5.30 m Y: -7.17 m Z: 0.00 m Rng: 8.92 m Brg:216.5°

SSS

X: -5.70 m Y: -7.17 m Z: 0.00 m Rng: 9.16 m Brg:218.5°

HPR

X: -0.70 m Y: 0.93 m Z: 0.00 m Rng: 1.16 m Brg:323.0°

Verified by: (sign)_____ (print)_____

APPENDIX D

GYROCOMPASS CALIBRATIONS PRINTOUTS



Thales GeoSolutions (Australasia) Limited

ABN 82 000 601 909

Gyrocompass Calibration

Thales Job Number: 3346C1
Job Description: Bass Strait Site Surveys
Client: OMV
Party Chief: C.Shuttleworth
Surveyor: M.Dybala
Wharf: Beauty Point
Vessel: Blue Fin
Date: 16 March 2002

Datum: AGD66 **Projection:** AMG Zone 55 CM 147° East

Time (hh:mm:ss)	Observation Point	Observed Direction (DMS)			Observed Distance (m)	Plane Bearing (DMS)			Plane Distance (m)	Calculated Co-ordinates		Calc (C) True Heading (D.D)	Obs (O) True Heading (D.D)	C-O (D.D)
										Easting (m)	Northing (m)			
11:34:40	Bow	343	21	35	70.910	037	11	55	70.882	485 230.982	5 443 500.222	339.66	339.00	0.66
11:35:20	Stern	001	12	00	61.880	055	02	20	61.855	485 238.821	5 443 479.206			
11:35:50	Bow	343	30	25	70.840	037	20	45	70.812	485 231.084	5 443 500.056	339.73	339.00	0.73
11:36:20	Stern	001	03	05	61.935	054	53	25	61.910	485 238.774	5 443 479.369			
11:36:50	Bow	343	20	05	70.830	037	10	25	70.802	485 230.909	5 443 500.177	339.42	338.65	0.77
11:37:20	Stern	001	03	40	61.930	054	54	00	61.905	485 238.776	5 443 479.358			
11:37:50	Bow	343	23	55	70.730	037	14	15	70.702	485 230.911	5 443 500.050	339.32	338.00	1.32
11:38:20	Stern	001	10	45	61.890	055	01	05	61.865	485 238.816	5 443 479.230			
11:40:10	Bow	343	19	05	70.720	037	09	25	70.692	485 230.826	5 443 500.102	338.94	338.50	0.44
11:40:40	Stern	001	10	55	61.980	055	01	15	61.955	485 238.892	5 443 479.280			
11:41:00	Bow	343	20	25	70.750	037	10	45	70.722	485 230.866	5 443 500.110	339.34	338.20	1.14
11:41:40	Stern	001	16	25	61.835	055	06	45	61.810	485 238.830	5 443 479.115			
11:42:20	Bow	343	17	40	70.935	037	08	00	70.907	485 230.932	5 443 500.291	339.44	339.15	0.29
11:43:00	Stern	001	06	30	61.970	054	56	50	61.945	485 238.838	5 443 479.339			
11:43:30	Bow	343	23	40	70.910	037	14	00	70.882	485 231.016	5 443 500.196	339.48	338.65	0.83
11:44:00	Stern	001	06	30	62.000	054	56	50	61.975	485 238.862	5 443 479.356			
11:44:30	Bow	343	22	40	70.685	037	13	00	70.657	485 230.863	5 443 500.030	339.25	338.60	0.65
11:45:00	Stern	001	12	45	61.815	055	03	05	61.790	485 238.775	5 443 479.158			
11:45:40	Bow	343	19	45	70.500	037	10	05	70.472	485 230.704	5 443 499.919	339.54	338.75	0.79
11:46:10	Stern	001	21	05	62.020	055	11	25	61.995	485 239.029	5 443 479.152			

Mean C-O 0.76

Signature

SURVEYOR/PARTY CHIEF

CLIENT SURVEY REPRESENTATIVE

APPENDIX E

STATIC DIFFERENTIAL GPS CHECK PRINTOUTS

THALES

Thales GeoSolutions (Australasia) Limited

ABN 82 000 601 909

Static Differential GPS Check

Thales Job Number: 3346C1
Job Description: Bass Strait Site Surveys
Client: OMV
Party Chief: C.Shuttleworth
Surveyor: M.Dybala
Wharf: Beauty Point
Vessel: Blue Fin
Date: 16 March 2002

Control Point Co-ordinates

Datum: AGD66 Projection: AMG Zone 55 CM 147° East

Instrument Station: AMC5 Easting (m): 485 188.128
Northing (m): 5 443 443.762
AHD Height (m): 0.000

Backsight Station: AMC2 Easting (m): 485 232.088
Northing (m): 5 443 475.890
AHD Height (m): 0.000

Calculated Grid Bearing (DMS): 053 50 20
Calculated Grid Convergence (DMS): 000 06 58 Negative-Grid North East of True North

Observations To: Vessel Datum

Backsight Observation (DMS): 000 00 00

Time (hh:mm:ss)	Observed Distance (m)	Observed Direction (DMS)			Positioning System DGPS Co-ordinates	
					Easting (m)	Northing (m)
11:49:50	73.080	345	23	35	485 235.440	5 443 500.200
11:50:15	73.130	345	19	50	485 235.460	5 443 500.320
11:50:35	73.250	345	24	30	485 235.350	5 443 500.040
11:50:55	73.265	345	23	35	485 235.300	5 443 499.640
11:51:15	73.270	345	23	35	485 235.120	5 443 499.300
11:51:30	73.210	345	22	40	485 234.930	5 443 498.870
11:51:45	73.120	345	20	50	485 234.910	5 443 498.780
11:52:05	73.110	345	26	45	485 234.790	5 443 498.780
11:52:20	73.010	345	27	15	485 234.700	5 443 498.870
11:52:35	72.980	345	30	10	485 234.740	5 443 499.020

Signature

SURVEYOR/PARTY CHIEF

CLIENT SURVEY REPRESENTATIVE



Thales GeoSolutions (Australasia) Limited

ABN 82 000 601 909

Static Differential GPS Check

Thales Job Number: 3346C1
Job Description: Bass Strait Site Surveys
Client: OMV
Party Chief: C.Shuttleworth
Surveyor: M.Dybala
Wharf: Beauty Point
Vessel: Blue Fin
Date: 16 March 2002

Datum: AGD66 **Projection:** AMG Zone 55 CM 147° East

Observations To: Vessel Datum

Time (hh:mm:ss)	Observed Direction (DMS)			Observed Distance (m)	Plane Bearing (DMS)			Plane Distance (m)	Calculated Co-ordinates		Positioning System DGPS Co-ordinates		Linear Misclose (m)	
									Easting (m)	Northing (m)	Easting (m)	Northing (m)		
11:49:50	345	23	35	73.080	039	13	55	73.051	485 234.330	5 443 500.347	485 235.440	5 443 500.200	1.12	
11:50:15	345	19	50	73.130	039	10	10	73.101	485 234.300	5 443 500.436	485 235.460	5 443 500.320	1.17	
11:50:35	345	24	30	73.250	039	14	50	73.221	485 234.452	5 443 500.466	485 235.350	5 443 500.040	0.99	
11:50:55	345	23	35	73.265	039	13	55	73.236	485 234.447	5 443 500.490	485 235.300	5 443 499.640	1.20	
11:51:15	345	23	35	73.270	039	13	55	73.241	485 234.450	5 443 500.494	485 235.120	5 443 499.300	1.37	
11:51:30	345	22	40	73.210	039	13	00	73.181	485 234.397	5 443 500.460	485 234.930	5 443 498.870	1.68	
11:51:45	345	20	50	73.120	039	11	10	73.091	485 234.310	5 443 500.415	485 234.910	5 443 498.780	1.74	
11:52:05	345	26	45	73.110	039	17	05	73.081	485 234.401	5 443 500.327	485 234.790	5 443 498.780	1.60	
11:52:20	345	27	15	73.010	039	17	35	72.981	485 234.346	5 443 500.243	485 234.700	5 443 498.870	1.42	
11:52:35	345	30	10	72.980	039	20	30	72.951	485 234.375	5 443 500.181	485 234.740	5 443 499.020	1.22	

Mean Linear Misclose (m) 1.35

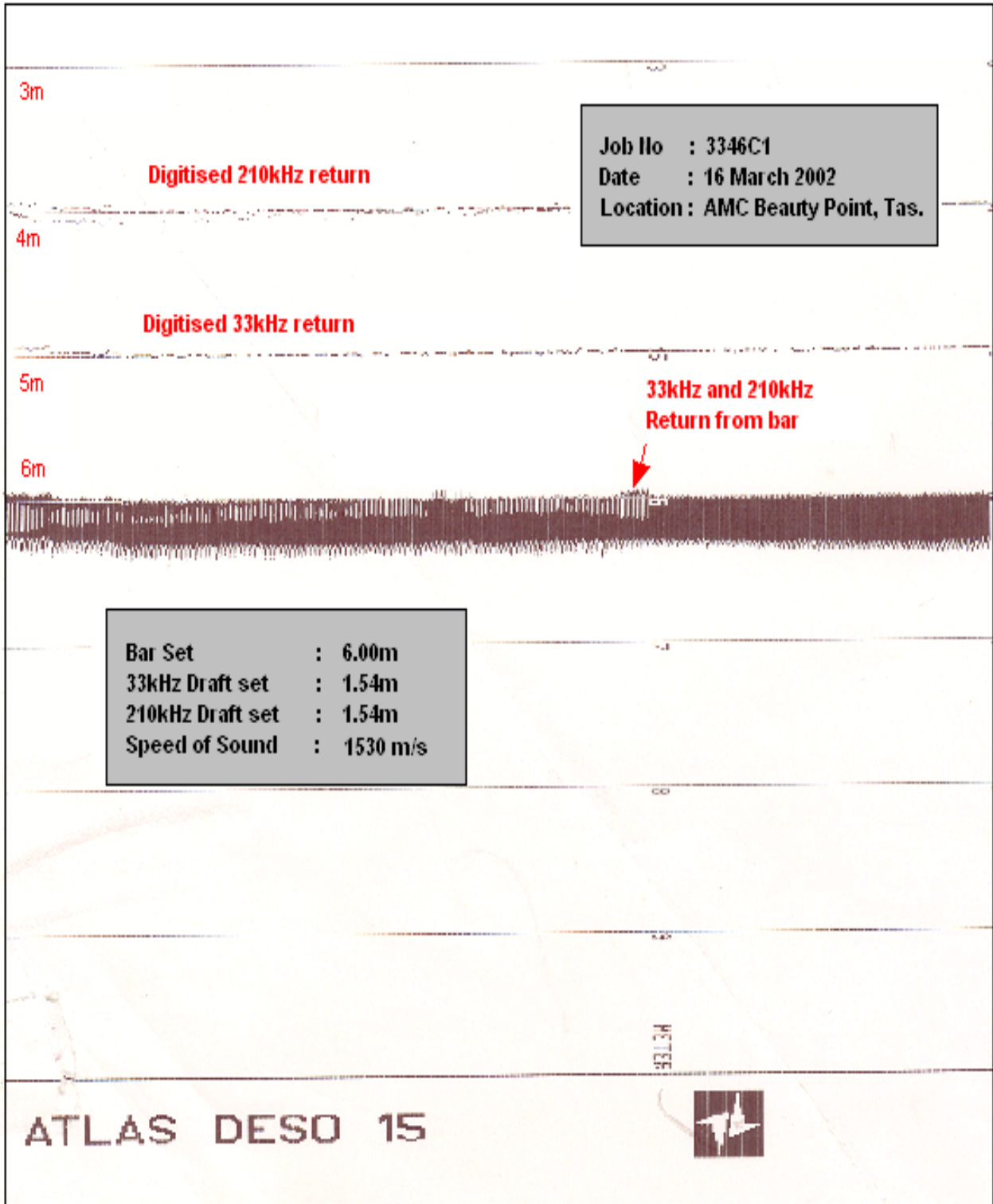
Surveyor

SURVEYOR/PARTY CHIEF

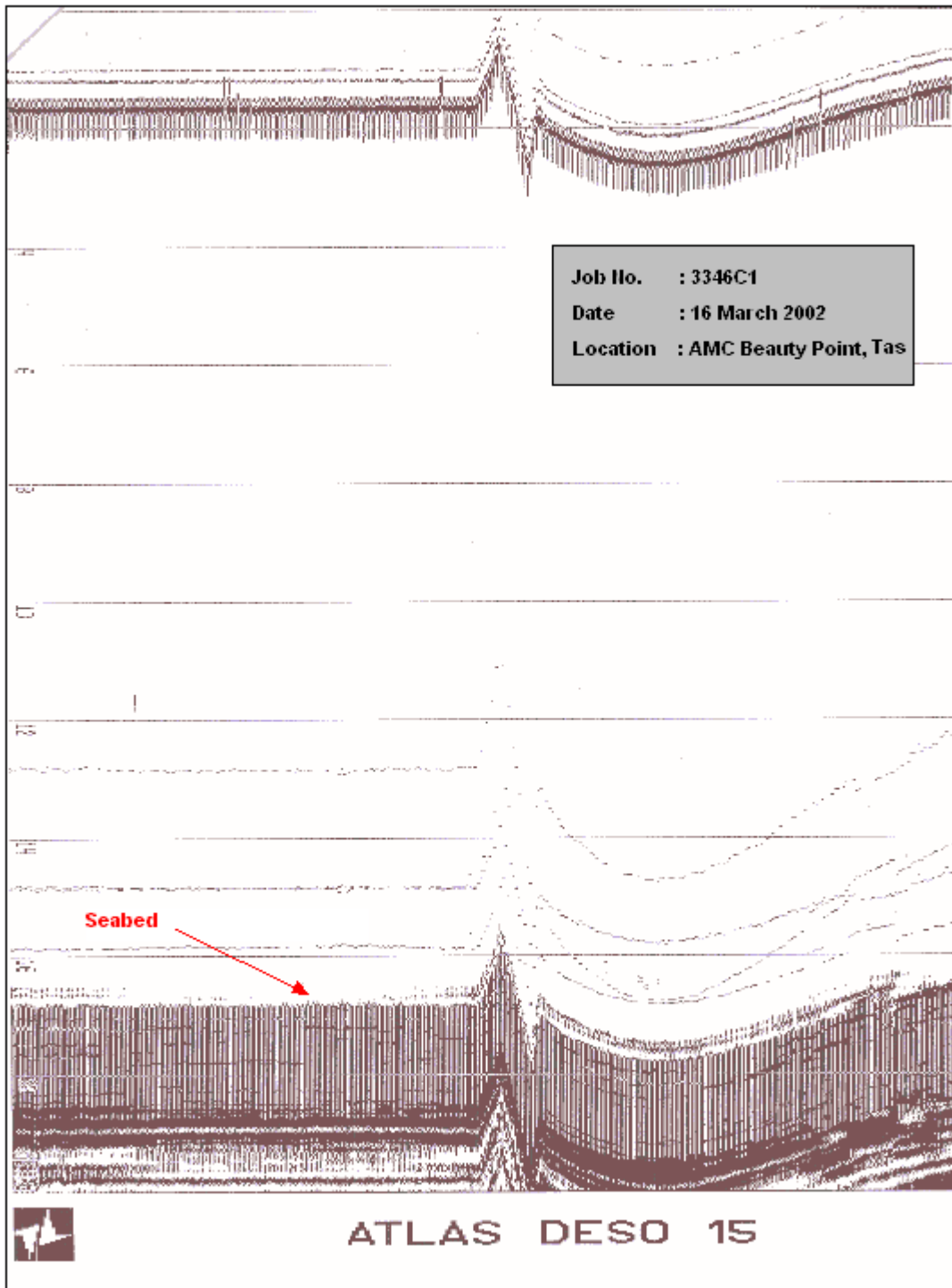
CLIENT SURVEY REPRESENTATIVE

APPENDIX F

BAR CHECK & MOTION SENSOR CHECK



Primary Atlas Deso 15 Echo Sounder Bar Check



TSS DMS-05 Motion Sensor Test

APPENDIX G

SIDE SCAN SONAR WET TEST & RUB TEST

Job No. : 3346C1
Date : 16 March 2002
Location : AMC Beauty Point, Tas

FIX#25 070302

FIX#25 070302

FIX#24 070302

FIX#24 070302

FIX#23 070302

FIX#23 070302

Test Fixes

PRIMARY SSS SUITE
NAV TEST 7MAR02

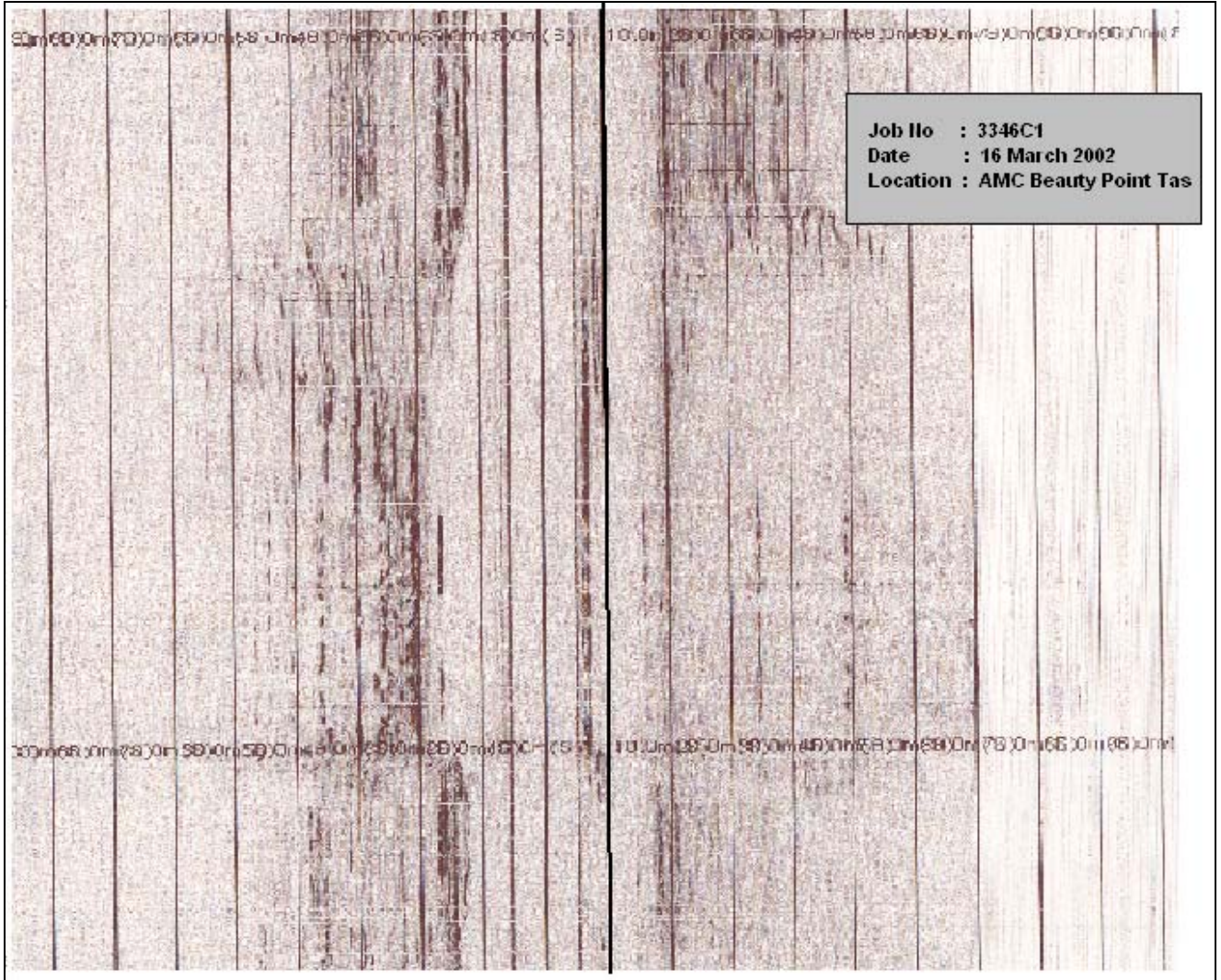
Towfish Bow

PRIMARY SSS RUB TEST 7MAR02

Port Channel Rub Test

Starboard Channel Rub Test

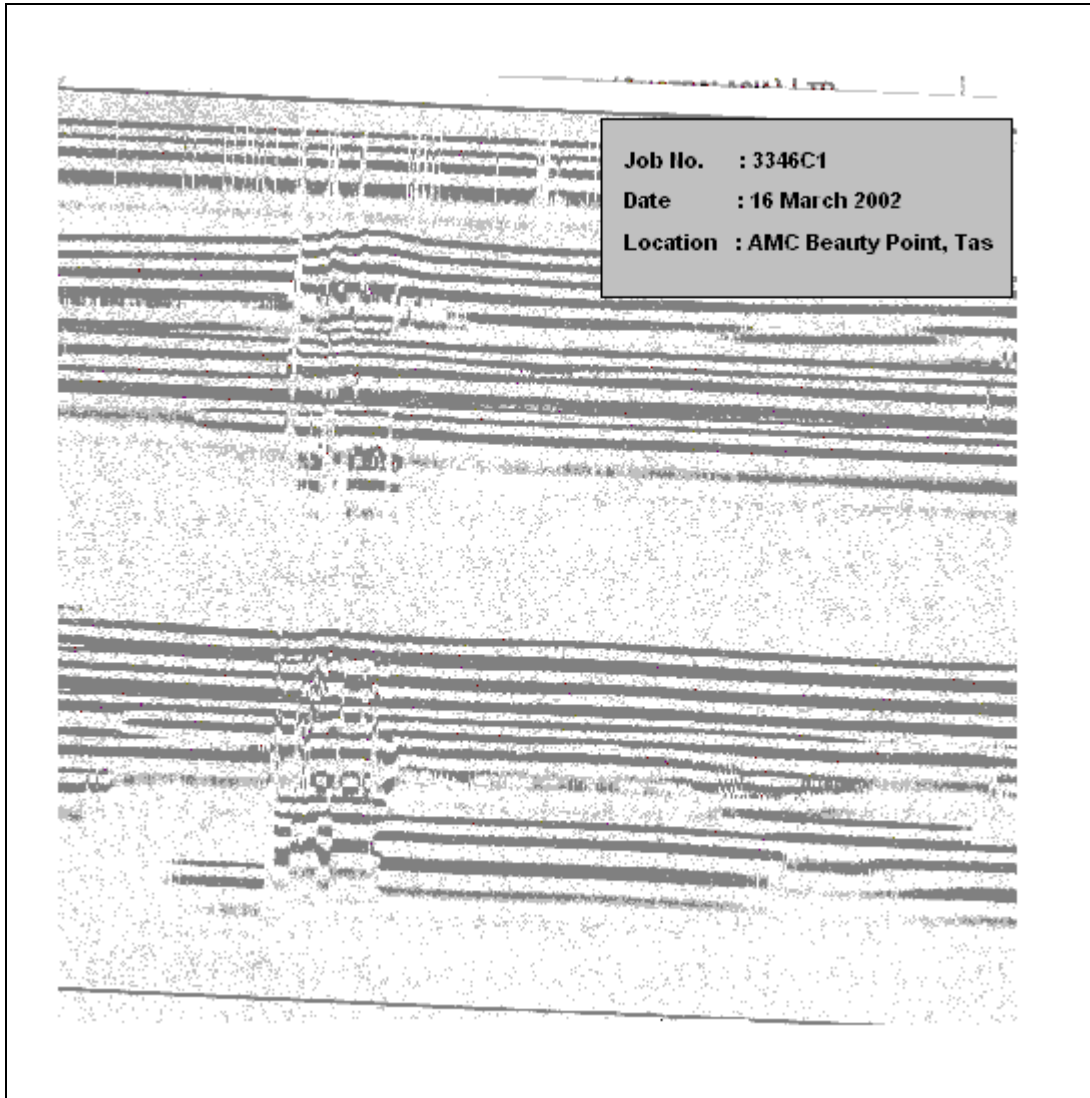
Primary Side Scan Sonar Towfish Nav Test and Rub Test



Primary Side Scan Sonar Towfish Wet Test

APPENDIX H

BOOMER WET TEST AND PULSE TEST



Primary Boomer Sub-Bottom Profiler System Wet Test

APPENDIX I

VELOCITY OF SOUND IN SEAWATER PROFILE

Sound Velocity Profile

Date : 17 March 2002

Location : Bass Strait Patricia-2 Site Survey

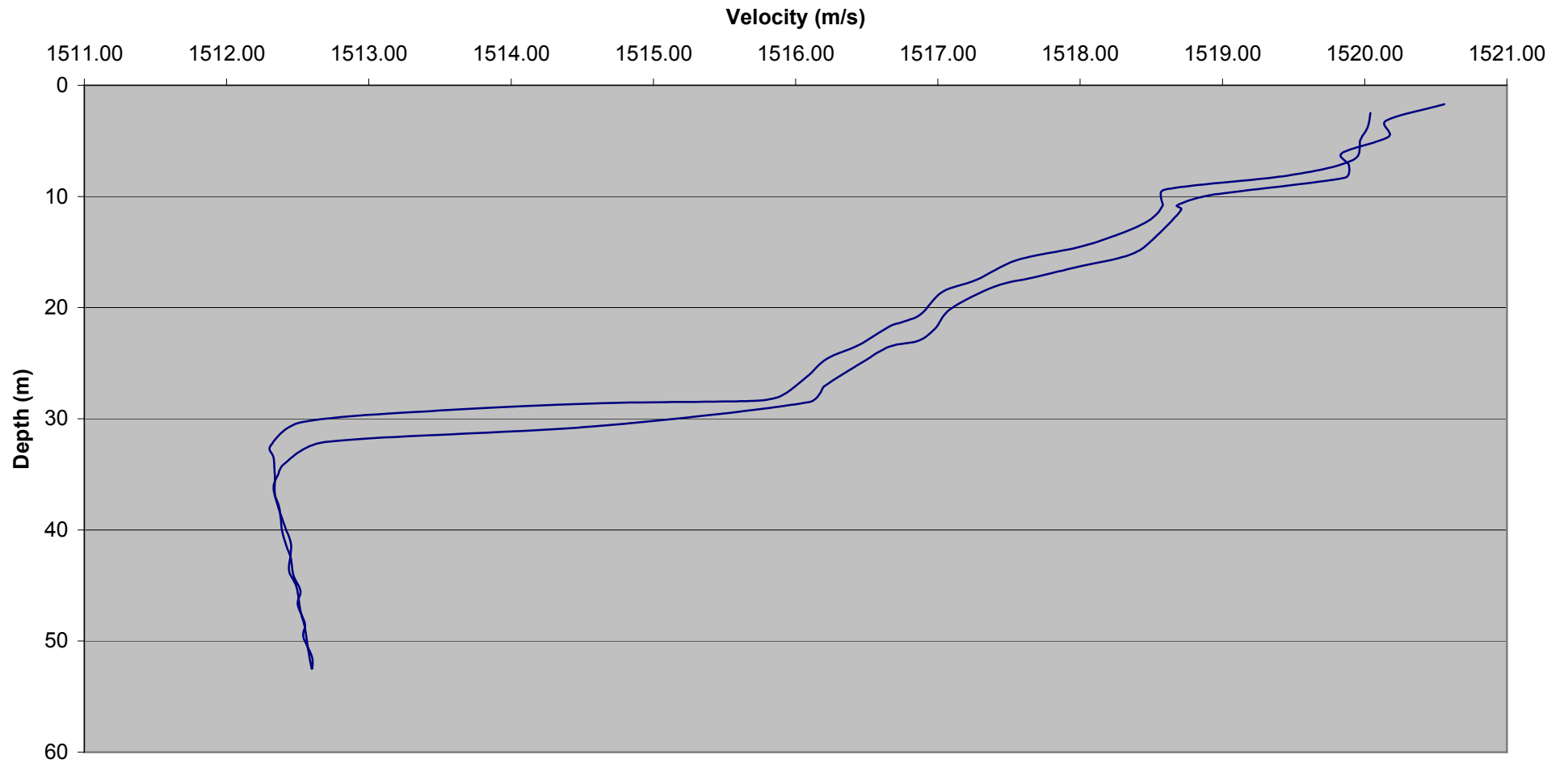
Job No. : 3346C1

Model : Applied Microsystems SV Plus

Pressure	Temperature	Sndvel	Battery
1.7	19.246	1520.56	12.16
3.2	19.233	1520.15	12.16
4.6	19.232	1520.17	12.16
6.1	19.196	1519.84	12.16
7.2	19.152	1519.89	12.16
8.3	19.137	1519.86	12.16
9.9	18.98	1518.91	12.16
10.8	18.802	1518.68	12.16
11.2	18.739	1518.71	12.16
13.5	18.703	1518.54	12.16
15.2	18.638	1518.36	12.16
16.4	18.547	1517.96	12.16
17.3	18.45	1517.67	12.16
18.1	18.319	1517.40	12.16
20.1	18.18	1517.09	12.16
21.9	18.126	1516.98	12.16
23	18.077	1516.86	12.16
23.5	18.028	1516.66	12.16
24.9	17.951	1516.47	12.16
27.1	17.873	1516.20	12.16
28.5	17.795	1516.09	12.17
30.7	17.614	1514.57	12.17
32.1	17.219	1512.69	12.17
34	16.624	1512.41	12.17
35.1	16.547	1512.36	12.17
36.2	16.485	1512.33	12.17
37.8	16.479	1512.36	12.17
39.7	16.476	1512.41	12.17
41.1	16.477	1512.45	12.17
42.2	16.473	1512.45	12.17
43.7	16.471	1512.44	12.17
45.1	16.472	1512.49	12.17
47.3	16.471	1512.52	12.17
48.8	16.472	1512.55	12.17
51.2	16.47	1512.58	12.17
52.5	16.47	1512.60	12.17
51.4	16.47	1512.60	12.17
49.6	16.47	1512.54	12.17
48.4	16.469	1512.55	12.17
46.7	16.469	1512.50	12.17
45.5	16.468	1512.52	12.18
44.1	16.467	1512.47	12.17
42.5	16.467	1512.45	12.17
41.4	16.468	1512.42	12.17
40.1	16.469	1512.39	12.17
38	16.467	1512.37	12.17
36.8	16.466	1512.34	12.17
35.3	16.466	1512.34	12.17
33.5	16.468	1512.33	12.17

32.4	16.472	1512.31	12.17
30.3	16.513	1512.53	12.18
29.2	16.611	1513.56	12.17
28.6	16.83	1514.63	12.17
28.4	17.501	1515.70	12.17
28	17.582	1515.89	12.17
26.2	17.708	1516.08	12.17
24.6	17.757	1516.22	12.17
23.4	17.848	1516.44	12.17
21.7	17.916	1516.66	12.18
21.3	17.951	1516.75	12.17
20.6	18.019	1516.88	12.17
18.6	18.061	1517.03	12.17
17.5	18.167	1517.27	12.17
15.7	18.239	1517.56	12.17
14.6	18.339	1517.98	12.17
13.5	18.468	1518.25	12.17
12.2	18.564	1518.48	12.17
10.8	18.635	1518.58	12.17
9.4	18.663	1518.59	12.17
8.1	18.796	1519.47	12.17
6.7	19.063	1519.92	12.18
4.9	19.146	1519.97	12.17
3.8	19.179	1520.02	12.17
2.5	19.191	1520.04	12.17
	Average	1515.69	

Sound Velocity Profile
Date : 17 March 2002
Location : Bass Strait Patricia-2 Site Survey
Job No. : 3346C1



APPENDIX J

SURVEY LINE LOGS



SIDE SCAN SONAR AND SUB BOTTOM PROFILER ANALOGUE LOG SHEET

JOB NO: 3346C1 SITE: Patricia-2 OPERATORS: LE - JA

Date	Line No.	Fixes		Times		SSS		SBP		ES	Cable Out	Comments
		SOL	EOL	SOL	EOL	Disc	Roll	Disc	Roll	Roll	@SOL	
18/03/02	PP1NS+50	2	16	06:39	06:46	1A	1	1A	1	1	150	HRB @20M, HYDRPHONE 20M
18/03/02	PPEW+50	17	30	07:08	07:15	1A	1	1A	1	1	150	
18/03/02	PP1	31	63	10:43	10:59	1A	1	1A	1	1	115	
18/03/02	PP4	64	95	11:12	11:28	1A	1	1A	1	1	120	
18/03/02	PP7	96	127	11:37	11:53	1A	1	1A	1	1	130	
18/03/02	PP10	128	160	12:07	12:23	1A	1	1A	1	1	121	#151-#152 PORT CHNL PAT-1 WELLHEAD
18/03/02	PP13	161	193	12:37	12:53	1A	1	1A	1	1	117	
18/03/02	P16	194	225	13:03	13:18	1A	1	1A	1	1	136	
18/03/02	PP19	226	261	13:29	13:46	1A	1	1A	1	1	111	
18/03/02	PP14	262	296	13:58	14:15	1A	1	1A	1	1	130	
18/03/02	PP11	297	329	14:27	14:43	1A	2	1A	2	2	137	
18/03/02	PP8	330	372	14:52	15:13	1A	2	1A	2	2	130	#368 POSS BASIN IN SBP
18/03/02	PP5	373	406	15:28	15:45	1A	2	1A	2	2	117	
18/03/02	PP2	407	440	15:53	16:09	1A	2	1A	2	2	103	
18/03/02	PP3	441	474	16:19	16:36	1B	2	1B	2	2	110	
18/03/02	PP6	475	508	16:44	17:10	1B	2	1B	2	2	100	
18/03/02	PP9	509	542	17:10	17:26	1B	2	1B	2	2	105	#520-#521 STBD CHNL PAT-1 WELLHEAD
18/03/02	PP12	543	576	17:35	17:51	1B	2	1B	2	2	100	
18/03/02	PP15	577	610	18:02	18:16	1B	2	1B	2	2	109	
18/03/02	PP18	611	644	18:28	18:44	1B	2	1B	2	2	100	
18/03/02	PP21	645	678	18:56	19:21	1B	2	1B	2	2	109	
18/03/02	PP20	679	711	19:21	19:37	1B	2	1B	2	2	105	
18/03/02	PP17	712	745	19:44	20:01	1B	2	1B	2	2	105	
18/03/02	PX03	746	777	20:15	20:30	1B	2	1B	2	2	105	
18/03/02	PX02	778	811	20:38	20:56	1B	2	1B	2	2	105	
18/03/02	PX01	812	845	21:03	21:19	1B	2	1B	2	2	105	

SIDE SCAN SONAR CABLE OUT LOG

Job No: 3346c1

Site Name: Patricia-2

Operators:

NB – ONLY FILL OUT LOG IF THERE ARE ANY ADDITIONAL CABLE CHANGES OTHER THAN THAT AT START OF LINE

Line Number	Fix Number	Cable Out
PP1	36-63	150
PP4	64-95	120
PP7	96-127	130
PP10	128-160	130
PP13	161-193	117
PP16	194-225	136
PP19	226-261	111
PP14	262-296	130
PP11	297-329	137
PP8	330-372	130
PP5	373-406	117
PP2	407-440	103
PP3	441-474	110
PP6	475-508	100
PP9	509-542	115
PP12	543-576	100
PP15	577-610	109
PP18	611-641	100
PP21	645-678	110
PP20	679-711	105

Line Number	Fix Number	Cable Out
PP17	712-745	107
PX3	746-777	111
PX2	778-811	100
PX1	812-845	107

Line Number	Fix Number	Cable Out

Line Number	Fix Number	Cable Out

NAVIGATION AND ECHO SOUNDER ANALOGUE LOG INFORMATION COVER SHEET				Page 1 of 1
Client	OMV			
Project	Site Surveys			
Job No	3346C1 – 3349C1, 3375C1	Vessel	FTV Bluefin	
Area	Bass Strait	Sites	Patricia-2, Baleen-3 and Sole-2	
Date(s)	18 – 23 March 2002	Operators	ECS/MD	

Equipment	Make/Model	Serial No (Bar Code)	Software Version
Positioning System	Multifix 3	ARR000867	1.28
Navigation System	GNS II	ARR000866	2.35
Echo Sounder	Atlas Deso 15	ARR000607	
Motion Sensor	TSS DMS-05		

Datum	E/S Pole
GPS Ant Offset from Datum	X=-2.10, Y=+15.49
Stern Offset from Datum	X=-5.30, Y=-7.17

Echo Sounder Settings					
From Fix	To Fix	210Khz Draft	33Khz Draft	SOS	Comments
1	2988	1.54 m	1.54 m	1516 m/s	Heave applied in GNS II, not in echo sounder.
2989	5940	1.54 m	1.54 m	1518 m/s	Heave applied in GNS II, not in echo sounder.

THALES

NAVIGATION AND ECHO SOUNDER ANALOGUE LOG SHEET

Page 1 of 9

Job No: 3346C1

Operators: ECS/MD

Date	Line No	Fixes		Times		ES Roll	Heading	Comments
		SOL	EOL	SOL	EOL			
18/03/02	P1NS+50	2	16	0639	0646	1	359	Dynamic SSS Check. No heave in E/S; applied in GNS.
	P1EW+50	17	30	0708	0715	1	89	Dynamic SSS Check. No heave in E/S; applied in GNS.
	PP1	31	63	1043	1059	1	51	Start Patricia-2 site survey.
	PP4	64	95	1112	1128	1	231	
	PP7	96	127	1137	1153	1	51	
	PP10	128	160	1207	1223	1	231	
	PP13	161	193	1237	1253	1	51	
	PP16	194	225	1303	1318	1	231	
	PP19	226	261	1329	1346	1	51	
	PP14	262	296	1358	1415	1	231	
	PP11	297	329	1427	1444	1	51	
	PP8	330	372	1452	1513	2	231	
	PP5	373	406	1528	1545	2	51	
	PP2	407	440	1553	1609	2	231	
	PP3	441	474	1619	1636	2	51	
	PP6	475	508	1644	1701	2	231	
	PP9	509	542	1709	1726	2	51	
	PP12	543	576	1735	1751	2	231	
	PP15	577	610	1801	1818	2	51	
	PP18	611	644	1828	1845	2	231	
	PP21	645	678	1856	1912	2	51	
	PP20	679	711	1921	1937	2	231	

THALES

NAVIGATION AND ECHO SOUNDER ANALOGUE LOG SHEET

Page 3 of 9

Job No: 3347C1

Operators: ECS/MD

Date	Line No	Fixes		Times		ES Roll	Heading	Comments
		SOL	EOL	SOL	EOL			
18/03/02	BP1	846	891	2148	2211	3	51	No heave in E/S; applied in GNS. Start of Baleen-3 site.
	BP4	892	941	2219	2243	3	231	
	BP7	942	1023	2309	2349	3	51	Long run-in to cover Baleen-2 wellhead.
19/03/02	BP10	1024	1072	2359	0023	3	231	
	BP13	1073	1116	0031	0052	3	51	
	BP16	1117	1163	0103	0126	3	231	
	BP19	1164	1209	0134	0156	3	51	
	BP20	1210	1256	0211	0234	3	231	
	BP17	1257	1300	0242	0303	3	51	
	BP14	1301	1349	0313	0337	3	231	
	BP11	1350	1395	0344	0407	3	51	
	BP8	1396	1442	0417	0440	3	231	
	BP5	1443	1488	0448	0511	3	51	
	BP2	1489	1536	0520	0544	3	231	
	BP3	1537	1582	0552	0615	3	51	
	BP6	1583	1666	0623	0705	3	231	Long run-out to cover Baleen-2 wellhead.
	BP6S	1667	1672	0712	0715	-	51	SSS only over Baleen-2 wellhead.
	BP9	1673	1719	0728	0751	3	51	
	BP12	1720	1769	0759	0824	3	231	
	BP15	1770	1812	0832	0853	3	51	
	BP18	1813	1862	0902	0927	3	231	
	BP21	1863	1907	0938	1000	4	51	

NAVIGATION AND ECHO SOUNDER ANALOGUE LOG SHEET

Job No: 3349C1

Operators: ECS/MD

Date	Line No	Fixes		Times		ES Roll	Heading	Comments
		SOL	EOL	SOL	EOL			
22/3/02	SP29	2989	3043	0956	1023	6	269	No heave in E/S; applied in GNS. Start of Sole-2 site survey.
	SP26	3044	3100	1039	1107	6	89	
	SP23	3101	3151	1120	1145	6	269	
	SP20	3152	3210	1200	1229	6	89	
	SP17	3211	3268	1239	1308	6	269	
	SP14	3269	3324	1329	1357	6	89	
	SP11	3325	3377	1409	1439	6	269	
	SP8	3378	3430	1454	1521	6	89	100m missed @ SOL
	SP5	3431	3492	1534	1605	6	269	250m of ES paper record missed at SOL
	SP2	3493	3552	1617	1647	6	89	Early SOL to cover Sole-1 wellhead
	SP1	3553	3607	1729	1757	6	89	Shooting head to wind only due boomer interference
	SP3	3608	3668	1806	1836	6	269	Return to 2 way shooting
	SP6	3669	3724	1853	1920	7	89	
	SP9	3725	3781	1934	2002	7	269	
	SP12	3782	3838	2019	2047	7	89	
	SP15	3830	3892	2102	2129	7	269	
	SP18	3893	3945	2145	2112	7	89	
	SP21	3946	3997	2226	2252	7	269	
	SP24	3998	4055	2310	2339	7	89	
	SP27	4056	4111	2352	0019	8	269	
23/3/02	SP28	4112	4168	0034	0103	8	89	
	SP25	4169	4222	0120	0146	8	269	

NAVIGATION AND ECHO SOUNDER ANALOGUE LOG SHEET

Job No: 3349C1

Operators: ECS/MD

Date	Line No	Fixes		Times		ES Roll	Heading	Comments
		SOL	EOL	SOL	EOL			
23/3/02	SP22	4223	4275	0202	0228	8	89	
	SP19	4276	4330	0244	0311	8	269	
	SP16	4331	4383	0332	0358	8	89	
	SP13	4384	4440	0415	0443	8	269	
	SP10	4441	4495	0501	0528	8	89	
	SP7	4496	4552	0549	0617	8	269	
	SP4	4553	4615	0635	0706	8	89	Long run-out to pass Sole-1 wellhead
	SX6	4616	4663	0737	0801	8	359	
	SX5	4664	4709	0821	0844	8	179	
	SX4	4710	4756	0906	0929	8	359	
	SX3	4757	4803	0948	1011	8	179	
	SX2	4804	4851	1035	1059	8	359	
	SX1	4852	4895	1118	1140	8	179	Sole-2 site survey complete.
	S1EW	4896	4907	1259	1305		89	Magnetometer on Sole-1 wellhead, 100m cable out.
	S1NS	4908	4919	1343	1348		179	
	S15	4920	4936	1402	1410		359	
	S12	4937	4949	1417	1423		179	
	S3	4950	4967	1428	1437		359	
	S14	4968	4981	1443	1450		179	
	S5	4982	5000	1458	1507		359	
	S2	5001	5015	1513	1521		179	

APPENDIX K

FIELD SEABED SAMPLE DESCRIPTIONS

Gravity Core / Grab Sample Description



THALES GEOSOLUTIONS (AUSTRALASIA) LTD

CLIENT: OMV
 PROJECT: Patricia-2
 JOB No.: 3346C1
 VESSEL: Bluefin
 LOGGED BY Pat Fournier

POSITION EAST: 627 203.79
 POSITION NORTH: 5 790 101.17

SAMPLE No.: GC1
 WATER DEPTH (mLAT): 52.5
 DATE: 19-Mar-02
 TIME: 19:02
 TYPE OF CORER Gravity corer
 BARREL LENGTH (m): 2.0m
 CORER WEIGHT: 500kg

RECOVERY (m):

CUTTER CONDITION ON RECOVERY:

DEPTH (m)	LITHOLOGY	SAMPLE NUMBER	VISUAL DESCRIPTION	TORVANE (Kn/m ²)	PENETROMETER (Kn/m ²)
		GC1	No recovery		

Sample has been described by visual identification. A pocket penetrometer and a Torvane have been used to define the unconfined compressive strength and shear strength respectively, of the soil. The undrained shear strength of the soil is taken as half the unconfined compressive strength.

Note: field identification for strength of cohesive soils (AS 1726 - 1993)		Undrained shear strength	
		kN/m ²	kgf/cm ²
Very soft	Exudes between fingers when squeezed in fist	< 12	< 0.12
Soft	Easily moulded in the fingers	12 to 25	0.12 to 0.25
Firm	Can be moulded in the fingers by strong pressure	25 to 50	0.25 to 0.50
Stiff	Cannot be moulded in the fingers, can be indented by thumb	50 to 100	0.50 to 1.00
Very stiff	Can be indented by thumb nail	100 to 200	1.00 to 2.00
Hard	Can be indented with difficulty by thumb nail	>200	>2.00

	CLAY		SILT		SAND		sandy GRAVEL
	silty CLAY		clayey SILT		clayey SAND		sandy silty GRAVEL
	sandy CLAY		sandy SILT		silty SAND		
	silty sandy CLAY				clayey silty SAND		ROCK

Gravity Core / Grab Sample Description



THALES GEOSOLUTIONS (AUSTRALASIA) LTD

CLIENT: OMV
 PROJECT: Patricia-2
 JOB No.: 3346C1
 VESSEL: Bluefin
 LOGGED BY Pat Fournier
 POSITION EAST: 627 197.97
 POSITION NORTH: 5 790 097.56
 RECOVERY (m): 40cm

SAMPLE No.: GC1
 WATER DEPTH (mLAT): 52.5
 DATE: 19-Mar-02
 TIME: 19:20
 TYPE OF CORER Gravity corer
 BARREL LENGTH (m): 2.0m
 CORER WEIGHT: 500kg

CUTTER CONDITION ON RECOVERY:

DEPTH (m)	LITHOLOGY	SAMPLE NUMBER	VISUAL DESCRIPTION	TORVANE (Kn/m ²)	PENETROMETER (Kn/m ²)
0 0.2 0.4		GC1a	Layered firm to stiff clays and loose shelly SAND 	85	45

Sample has been described by visual identification. A pocket penetrometer and a Torvane have been used to define the unconfined compressive strength and shear strength respectively, of the soil. The undrained shear strength of the soil is taken as half the unconfined compressive strength.

Note: field identification for strength of cohesive soils (AS 1726 - 1993)

		Undrained shear strength	
		kN/m ²	kgf/cm ²
Very soft	Exudes between fingers when squeezed in fist	< 12	< 0.12
Soft	Easily moulded in the fingers	12 to 25	0.12 to 0.25
Firm	Can be moulded in the fingers by strong pressure	25 to 50	0.25 to 0.50
Stiff	Cannot be moulded in the fingers, can be indented by thumb	50 to 100	0.50 to 1.00
Very stiff	Can be indented by thumb nail Very tough	100 to 200	1.00 to 2.00
Hard	Can be indented with difficulty by thumb nail	>200	>2.00

	CLAY		SILT		SAND		sandy GRAVEL
	silty CLAY		clayey SILT		clayey SAND		sandy silty GRAVEL
	sandy CLAY		sandy SILT		silty SAND		
	silty sandy CLAY		clayey silty SAND		ROCK		

Gravity Core / Grab Sample Description



THALES GEOSOLUTIONS (AUSTRALASIA) LTD

CLIENT: OMV
 PROJECT: Patricia-2
 JOB No.: 3346C1
 VESSEL: Bluefin
 LOGGED BY Pat Fournier
 POSITION EAST: 626 095.53
 POSITION NORTH: 5 790 281.87
 RECOVERY (m): Catcher full

SAMPLE No.: GS1
 WATER DEPTH (mLAT): 52.5
 DATE: 19-Mar-02
 TIME: 19:40
 TYPE OF CORER Van Veen
 BARREL LENGTH (m):
 CORER WEIGHT:

CUTTER CONDITION ON RECOVERY:

DEPTH (m)	LITHOLOGY	SAMPLE NUMBER	VISUAL DESCRIPTION	TORVANE (Kn/m ²)	PENETROMETER (Kn/m ²)
		GS1	Loose red/orange coarse SAND, with abundant shell fragments and biologies. Average shell size 4cm x 4cm		

Sample has been described by visual identification. A pocket penetrometer and a Torvane have been used to define the unconfined compressive strength and shear strength respectively, of the soil. The undrained shear strength of the soil is taken as half the unconfined compressive strength.

Note: field identification for strength of cohesive soils (AS 1726 - 1993)		Undrained shear strength	
		kN/m ²	kgf/cm ²
Very soft	Exudes between fingers when squeezed in fist	< 12	< 0.12
Soft	Easily moulded in the fingers	12 to 25	0.12 to 0.25
Firm	Can be moulded in the fingers by strong pressure	25 to 50	0.25 to 0.50
Stiff	Cannot be moulded in the fingers, can be indented by thumb	50 to 100	0.50 to 1.00
Very stiff	Can be indented by thumb nail	100 to 200	1.00 to 2.00
Hard	Can be indented with difficulty by thumb nail	>200	>2.00

	CLAY		SILT		SAND		sandy GRAVEL
	silty CLAY		clayey SILT		clayey SAND		sandy silty GRAVEL
	sandy CLAY		sandy SILT		silty SAND		
	silty sandy CLAY				clayey silty SAND		ROCK

Gravity Core / Grab Sample Description



THALES GEOSOLUTIONS (AUSTRALASIA) LTD

CLIENT: OMV PROJECT: Baleen JOB No.: 3347C1 VESSEL: Bluefin LOGGED BY: Pat Fournier POSITION EAST: 627 451.21 POSITION NORTH: 5 792 364.59 RECOVERY (m):	SAMPLE No.: GS1 WATER DEPTH (mLAT): 52.5 DATE: 19-Mar-02 TIME: 20:36 TYPE OF CORER: Van Veen BARREL LENGTH (m): CORER WEIGHT: CUTTER CONDITION ON RECOVERY:
---	--

DEPTH (m)	LITHOLOGY	SAMPLE NUMBER	VISUAL DESCRIPTION	TORVANE (Kn/m ²)	PENETROMETER (Kn/m ²)
		GS1	Green/grey medium to coarse SAND with abundant rock and shell fragments and one piece of sponge coral. Average size of rock fragment 5cm x 4cm. Rocks show evidence of early stages of cementation with shell fragments cemented together.		

Sample has been described by visual identification. A pocket penetrometer and a Torvane have been used to define the unconfined compressive strength and shear strength respectively, of the soil. The undrained shear strength of the soil is taken as half the unconfined compressive strength.

Note: field identification for strength of cohesive soils (AS 1726 - 1993)		Undrained shear strength	
		kN/m ²	kgf/cm ²
Very soft	Exudes between fingers when squeezed in fist	< 12	< 0.12
Soft	Easily moulded in the fingers	12 to 25	0.12 to 0.25
Firm	Can be moulded in the fingers by strong pressure	25 to 50	0.25 to 0.50
Stiff	Cannot be moulded in the fingers, can be indented by thumb	50 to 100	0.50 to 1.00
Very stiff	Can be indented by thumb nail	100 to 200	1.00 to 2.00
Hard	Can be indented with difficulty by thumb nail	>200	>2.00

	CLAY		SILT		SAND		sandy GRAVEL
	silty CLAY		clayey SILT		clayey SAND		sandy silty GRAVEL
	sandy CLAY		sandy SILT		silty SAND		
	silty sandy CLAY		clayey silty SAND		ROCK		

Gravity Core / Grab Sample Description



THALES GEOSOLUTIONS (AUSTRALASIA) LTD

CLIENT: OMV
 PROJECT: Baleen
 JOB No.: 3347C1
 VESSEL: Bluefin
 LOGGED BY Pat Fournier
 POSITION EAST: 626 681.98
 POSITION NORTH: 5 792 553.88
 RECOVERY (m):

SAMPLE No.: GS2
 WATER DEPTH (mLAT):
 DATE: 19-Mar-02
 TIME: 20:53
 TYPE OF CORER Van Veen
 BARREL LENGTH (m):
 CORER WEIGHT:

CUTTER CONDITION ON RECOVERY:

DEPTH (m)	LITHOLOGY	SAMPLE NUMBER	VISUAL DESCRIPTION	TORVANE (Kn/m ²)	PENETROMETER (Kn/m ²)
		GS2	Green/grey Fine to coarse silty SAND with abundant shell fragments and minor rock fragments. Average size of rock fragment 5cm x 4cm. Average shell size 5cm x 2cm		

Sample has been described by visual identification. A pocket penetrometer and a Torvane have been used to define the unconfined compressive strength and shear strength respectively, of the soil. The undrained shear strength of the soil is taken as half the unconfined compressive strength.

Note: field identification for strength of cohesive soils (AS 1726 - 1993)

		Undrained shear strength	
		kN/m ²	kgf/cm ²
Very soft	Exudes between fingers when squeezed in fist	< 12	< 0.12
Soft	Easily moulded in the fingers	12 to 25	0.12 to 0.25
Firm	Can be moulded in the fingers by strong pressure	25 to 50	0.25 to 0.50
Stiff	Cannot be moulded in the fingers, can be indented by thumb	50 to 100	0.50 to 1.00
Very stiff	Can be indented by thumb nail	100 to 200	1.00 to 2.00
Hard	Can be indented with difficulty by thumb nail	>200	>2.00

	CLAY		SILT		SAND		sandy GRAVEL
	silty CLAY		clayey SILT		clayey SAND		sandy silty GRAVEL
	sandy CLAY		sandy SILT		silty SAND		
	silty sandy CLAY				clayey silty SAND		ROCK

APPENDIX L

TIDAL PREDICTIONS

TIDE HEIGHT PREDICTIONS
LOCATION : Baleen-3/Patricia-2
LATITUDE : 38 1 0 S
LONGITUDE : 148 26 57 E
CLIENT : THALES
TIME ZONE : -1000 (EST)
DATUM : LAT (~0.70M < MSL/AHD)
PERIOD : 18/ 3/2002 - 20/3/2002
INTERVAL : 30 MINUTES
HHMM:SS DD MM YYYY TIDE HEIGHT (M)

0:	0	18	3	2002	1.15
30:	0	18	3	2002	1.10
100:	0	18	3	2002	1.02
130:	0	18	3	2002	0.93
200:	0	18	3	2002	0.82
230:	0	18	3	2002	0.71
300:	0	18	3	2002	0.60
330:	0	18	3	2002	0.51
400:	0	18	3	2002	0.42
430:	0	18	3	2002	0.35
500:	0	18	3	2002	0.31
530:	0	18	3	2002	0.29
600:	0	18	3	2002	0.30
630:	0	18	3	2002	0.33
700:	0	18	3	2002	0.38
730:	0	18	3	2002	0.44
800:	0	18	3	2002	0.52
830:	0	18	3	2002	0.61
900:	0	18	3	2002	0.70
930:	0	18	3	2002	0.78
1000:	0	18	3	2002	0.86
1030:	0	18	3	2002	0.91
1100:	0	18	3	2002	0.95
1130:	0	18	3	2002	0.97
1200:	0	18	3	2002	0.96
1230:	0	18	3	2002	0.94
1300:	0	18	3	2002	0.89
1330:	0	18	3	2002	0.83
1400:	0	18	3	2002	0.75
1430:	0	18	3	2002	0.67
1500:	0	18	3	2002	0.59
1530:	0	18	3	2002	0.51
1600:	0	18	3	2002	0.45
1630:	0	18	3	2002	0.40
1700:	0	18	3	2002	0.37
1730:	0	18	3	2002	0.36
1800:	0	18	3	2002	0.37
1830:	0	18	3	2002	0.41
1900:	0	18	3	2002	0.47
1930:	0	18	3	2002	0.55
2000:	0	18	3	2002	0.64
2030:	0	18	3	2002	0.74
2100:	0	18	3	2002	0.84
2130:	0	18	3	2002	0.94
2200:	0	18	3	2002	1.03
2230:	0	18	3	2002	1.10
2300:	0	18	3	2002	1.16
2330:	0	18	3	2002	1.19
0:	0	19	3	2002	1.20
30:	0	19	3	2002	1.18
100:	0	19	3	2002	1.14

130:	0	19	3	2002	1.07
200:	0	19	3	2002	0.99
230:	0	19	3	2002	0.90
300:	0	19	3	2002	0.79
330:	0	19	3	2002	0.68
400:	0	19	3	2002	0.58
430:	0	19	3	2002	0.49
500:	0	19	3	2002	0.41
530:	0	19	3	2002	0.35
600:	0	19	3	2002	0.30
630:	0	19	3	2002	0.29
700:	0	19	3	2002	0.29
730:	0	19	3	2002	0.32
800:	0	19	3	2002	0.36
830:	0	19	3	2002	0.42
900:	0	19	3	2002	0.50
930:	0	19	3	2002	0.57
1000:	0	19	3	2002	0.65
1030:	0	19	3	2002	0.73
1100:	0	19	3	2002	0.79
1130:	0	19	3	2002	0.84
1200:	0	19	3	2002	0.87
1230:	0	19	3	2002	0.89
1300:	0	19	3	2002	0.88
1330:	0	19	3	2002	0.86
1400:	0	19	3	2002	0.82
1430:	0	19	3	2002	0.77
1500:	0	19	3	2002	0.71
1530:	0	19	3	2002	0.65
1600:	0	19	3	2002	0.58
1630:	0	19	3	2002	0.53
1700:	0	19	3	2002	0.48
1730:	0	19	3	2002	0.45
1800:	0	19	3	2002	0.43
1830:	0	19	3	2002	0.43
1900:	0	19	3	2002	0.46
1930:	0	19	3	2002	0.50
2000:	0	19	3	2002	0.56
2030:	0	19	3	2002	0.64
2100:	0	19	3	2002	0.72
2130:	0	19	3	2002	0.81
2200:	0	19	3	2002	0.91
2230:	0	19	3	2002	0.99
2300:	0	19	3	2002	1.07
2330:	0	19	3	2002	1.13
0:	0	20	3	2002	1.18
30:	0	20	3	2002	1.20
100:	0	20	3	2002	1.20
130:	0	20	3	2002	1.17
200:	0	20	3	2002	1.13
230:	0	20	3	2002	1.06
300:	0	20	3	2002	0.97
330:	0	20	3	2002	0.88
400:	0	20	3	2002	0.78
430:	0	20	3	2002	0.67
500:	0	20	3	2002	0.57
530:	0	20	3	2002	0.48
600:	0	20	3	2002	0.40
630:	0	20	3	2002	0.34
700:	0	20	3	2002	0.30
730:	0	20	3	2002	0.27

800:	0	20	3	2002	0.28
830:	0	20	3	2002	0.30
900:	0	20	3	2002	0.33
930:	0	20	3	2002	0.39
1000:	0	20	3	2002	0.45
1030:	0	20	3	2002	0.52
1100:	0	20	3	2002	0.59
1130:	0	20	3	2002	0.66
1200:	0	20	3	2002	0.72
1230:	0	20	3	2002	0.77
1300:	0	20	3	2002	0.81
1330:	0	20	3	2002	0.83
1400:	0	20	3	2002	0.83
1430:	0	20	3	2002	0.82
1500:	0	20	3	2002	0.79
1530:	0	20	3	2002	0.75
1600:	0	20	3	2002	0.71
1630:	0	20	3	2002	0.66
1700:	0	20	3	2002	0.61
1730:	0	20	3	2002	0.56
1800:	0	20	3	2002	0.53
1830:	0	20	3	2002	0.50
1900:	0	20	3	2002	0.49
1930:	0	20	3	2002	0.50
2000:	0	20	3	2002	0.53
2030:	0	20	3	2002	0.57
2100:	0	20	3	2002	0.63
2130:	0	20	3	2002	0.70
2200:	0	20	3	2002	0.78
2230:	0	20	3	2002	0.86
2300:	0	20	3	2002	0.95
2330:	0	20	3	2002	1.03

APPENDIX M

DAILY FIELD PROGRESS REPORT SHEETS



THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED

DAILY RECORD SHEET

Date: 15 March 2002	Client: OMV	Job No.: 3346C1	Vessel: Blue Fin	Location: Bass Strait
---------------------	-------------	-----------------	------------------	-----------------------

PAGE 1 OF 10

Equipment	Op	
SkyFix	Mob	
SkyFix Spot	Mob	
Gyro	Mob	
GNS 2	Mob	
MultiFix 3	Mob	
GRREP	Mob	

Equipment	Op	
Echo Sounder	Mob	
Sidescan	Mob	
Boomer	Mob	
Heave Comp	Mob	
Velocity Probe	Mob	
ENSIN/CODA	Mob	

Racal Personnel
EC Shuttleworth
M.Dybala
J Antao
L.Ethridge
P Fournier
Client Personnel
R Glanville

WX	Sea State	Swell	Wind Dir.
0000			
0600			
1200			
1800			

DIARY OF OPERATIONS

TIME	Time Zone=UTC+11
0800	Thales personnel at vessel. Project Briefing & vessel induction
0830	Truck, crane, welders & labour commence work.
1115	All equipment loaded to vessel
1300	Gyros powered up.
1545	Crane, welders & labour complete work
1600	Power failure.
1630	Power return
2000	Thales personnel depart vessel for night.

Forms are to be completed daily in duplicate on all vessels. Each form should be countersigned by the Clients Representative, the original being retained on board until the next crew change or at the end of job, whichever is the earlier, when they should be returned to the PERTH office.

Signature _____
SURVEYOR/ENGINEER

WHITE	: Accounts Department
BLUE	: Operations Department
YELLOW	: Clients Representative

Signature _____
CLIENT REPRESENTATIVE



THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED DAILY RECORD SHEET

Date: 16 March 2002 Client: OMV Job No.: 3346C1 Vessel: Blue Fin Location: Bass Strait

Equipment	Op	
SkyFix	Y	
SkyFix Spot	Y	
Gyro	Y	
GNS 2	Y	
MultiFix 3	Y	
GRREP	Y	

Equipment	Op	
Echo Sounder	Y	
Sidescan	Y	
Boomer	Y	
Heave Comp	Y	
Velocity Probe	Y	
ENSIN/CODA	Y	

Racal Personnel
EC Shuttleworth
M.Dybala
J Antao
L.Ethridge
P Fournier
Client Personnel
R Glanville

WX	Sea State	Swell	Wind Dir.
0000			
0600			
1200			
1800			

DIARY OF OPERATIONS

TIME	Time Zone=UTC+11
0700	Thales personnel at vessel.
0800	Boomer in water
1000	SSS rub & wet test
1100	ES deployed. Deso 15 problem.
1200	DGPS Health check & gyro calibration complete.
1300	ES operational
1345	ES bar check complete.
1430	Spare magnetometer arrive.
1515	Power failure.
1530	Power back. Reboot equipment
1600	Magnetometer operational
1730	Fire & Abandonment drill
1800	Depart Beauty Point.
2400	Transit to Patricia

Forms are to be completed daily in duplicate on all vessels. Each form should be countersigned by the Clients Representative, the original being retained on board until the next crew change or at the end of job, whichever is the earlier, when they should be returned to the PERTH office.

Signature _____
SURVEYOR/ENGINEER

WHITE	: Accounts Department
BLUE	: Operations Department
YELLOW	: Clients Representative

Signature _____
CLIENT REPRESENTATIVE



THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED DAILY RECORD SHEET

Date: 17 March 2002 Client: OMV Job No.: 3346C1 Vessel: Blue Fin Location: Bass Strait

Equipment	Op	
SkyFix	Y	
SkyFix Spot	Y	
Gyro	Y	
GNS 2	Y	
MultiFix 3	Y	
GRREP	Y	

Equipment	Op	
Echo Sounder	Y	
Sidescan	Y	
Boomer	Y	
Heave Comp	Y	
Velocity Probe	Y	
ENSIN/CODA	Y	

Racal Personnel
EC Shuttleworth
M. Dybala
J Antao
L. Ethridge
P Fournier
Client Personnel
R Glanville

WX	Sea State	Swell	Wind Dir.
0000	6	2m	NW
0600	6	2m	SW
1200	6	2m	SW
1800	3/4	2m	SW

DIARY OF OPERATIONS

TIME	Time Zone=UTC+11
0000	Transit to Patricia
1100	DMS2-05 reset itself to 1200 baud rate. Reset GNS2 & Deso 15 to same.
1845	Drop anchor at Patricia site. Wx standby. Wind dec., seas 2m+
2100	SVP check during wx dt. 1515.7 m/s
2400	Standby for wx on Patricia 2 site

Forms are to be completed daily in duplicate on all vessels. Each form should be countersigned by the Clients Representative, the original being retained on board until the next crew change or at the end of job, whichever is the earlier, when they should be returned to the PERTH office.

Signature _____
SURVEYOR/ENGINEER

WHITE	: Accounts Department
BLUE	: Operations Department
YELLOW	: Clients Representative

Signature _____
CLIENT REPRESENTATIVE



THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED DAILY RECORD SHEET

Date: 18 March 2002 Client: OMV Job No.: 3346C1 Vessel: Blue Fin Location: Bass Strait

Equipment	Op	
SkyFix	Y	
SkyFix Spot	Y	
Gyro	Y	
GNS 2	Y	
MultiFix 3	Y	
GRREP	Y	

Equipment	Op	
Echo Sounder	Y	
Sidescan	Y	
Boomer	Y	
Heave Comp	Y	
Velocity Probe	Y	
ENSIN/CODA	Y	

Racal Personnel
EC Shuttleworth
M.Dybala
J Antao
L.Ethridge
P Fournier
Client Personnel
R Glanville

WX	Sea State	Swell	Wind Dir.
0000	3/4	2m	SW
0600	3/4	1m	NW
1200	3	<1m	NE
1800	3	<1m	NE

DIARY OF OPERATIONS

TIME	Time Zone=UTC+ 11
0000	Standby for wx on Patricia 2 site
0400	Deploy and tune E/S. No heave into E/S as causes loss of soundings. Heave applied in GNS.
0520	Recover anchor.
0530	Deploy SSS. Tuning SSS.
0639	Start SSS dynamic check Patricia 2.
0715	End of dynamic check.
0730	Deploy hydrophone. Tuning boomer.
1030	Commence run-in to line PP1.
1043	Commenced SSS, ES & Boomer on Patricia 2 site.
2119	Analogue acquisition completed at Patricia 2.
2148	Commence analogue acquisition at Baleen 3 site.
2400	Continue on Baleen 3 site.

Forms are to be completed daily in duplicate on all vessels. Each form should be countersigned by the Clients Representative, the original being retained on board until the next crew change or at the end of job, whichever is the earlier, when they should be returned to the PERTH office.

Signature _____
SURVEYOR/ENGINEER

WHITE	: Accounts Department
BLUE	: Operations Department
YELLOW	: Clients Representative

Signature _____
CLIENT REPRESENTATIVE



THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED DAILY RECORD SHEET

Date: 19 March 2002 Client: OMV Job No.: 3347C1 Vessel: Blue Fin Location: Bass Strait

Equipment	Op	
SkyFix	Y	
SkyFix Spot	Y	
Gyro	Y	
GNS 2	Y	
MultiFix 3	Y	
GRREP	Y	

Equipment	Op	
Echo Sounder	Y	
Sidescan	Y	
Boomer	Y	
Heave Comp	Y	
Velocity Probe	Y	
ENSIN/CODA	Y	

Racal Personnel
EC Shuttleworth
M.Dybala
J Antao
L.Ethridge
P Fournier
Client Personnel
R Glanville

WX	Sea State	Swell	Wind Dir.
0000	4	1-2m	SW
0600	3	1-2m	SW
1200	3	1-2m	SW
1800			

DIARY OF OPERATIONS

TIME	Time Zone=UTC+ 11
0000	Continue on Baleen 3 site.
1233	Analogue acquisition complete on Baleen 3. Recover SSS & Boomer, deploy magnetometer.
1315	Magnetometer deployed.
1353	Commence magnetometer checks on wellheads.
1800	Magnetometer recovered. Rig for coring.
1845	JSA/Toolbox for coring.
1902	Gravity core attempt on Patricia 2. Fail.
1920	Gravity core attempt on Patricia 2. Sample.
1940	Grab Sample 1 (Patricia site.)
2007	Grab Sample 2 (Patricia site.)
2036	Grab Sample 3 (Baleen site.)
2053	Grab Sample on Baleen 3 site. Derig corer, hd for pipe route ridge.
2200	SSS deployed. Commence ridge examination

Forms are to be completed daily in duplicate on all vessels. Each form should be countersigned by the Clients Representative, the original being retained on board until the next crew change or at the end of job, whichever is the earlier, when they should be returned to the PERTH office.

Signature _____
SURVEYOR/ENGINEER

WHITE	: Accounts Department
BLUE	: Operations Department
YELLOW	: Clients Representative

Signature _____
CLIENT REPRESENTATIVE



THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED DAILY RECORD SHEET

Date: 20 March 2002 Client: OMV Job No.: 3347C1 Vessel: Blue Fin Location: Bass Strait

Equipment	Op	
SkyFix	Y	
SkyFix Spot	Y	
Gyro	Y	
GNS 2	Y	
MultiFix 3	Y	
GRREP	Y	

Equipment	Op	
Echo Sounder	Y	
Sidescan	Y	
Boomer	Y	
Heave Comp	Y	
Velocity Probe	Y	
ENSIN/CODA	Y	

Racal Personnel
EC Shuttleworth
M. Dybala
J Antao
L. Ethridge
P Fournier
Client Personnel
R. Glanville

WX	Sea State	Swell	Wind Dir.
0000	3	1	NW
0600	3	1	NW
1200	5/6	2m+	SW
1800			

DIARY OF OPERATIONS

TIME	Time Zone=UTC+ 11
0000	Continue on ridge survey.
0014	Complete ridge survey. Deploy Boomer for route development
0115	Commenced pipe route development.
0617	Pipe route completed.
0654	Commence scout line to 15m contour.
0828	Scout line complete. Start recovering spread.
0900	Commence transit to Sole-2 site.
1100	Divert to shelter off Gabo Island. Wind SW'ly, force 6, seas 2m+. F'cast W/SW 30 – 40 kn.
1700	Drop anchor in lee of Gabo Island.

Forms are to be completed daily in duplicate on all vessels. Each form should be countersigned by the Clients Representative, the original being retained on board until the next crew change or at the end of job, whichever is the earlier, when they should be returned to the PERTH office.

Signature _____
SURVEYOR/ENGINEER

WHITE	: Accounts Department
BLUE	: Operations Department
YELLOW	: Clients Representative

Signature _____
CLIENT REPRESENTATIVE

THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED DAILY RECORD SHEET

Date: 21 March 2002 Client: OMV Job No.: 3349C1 Vessel: Blue Fin Location: Bass Strait

PAGE 7 OF 10

Equipment	Op	
SkyFix	Y	
SkyFix Spot	Y	
Gyro	Y	
GNS 2	Y	
MultiFix 3	Y	
GRREP	Y	

Equipment	Op	
Echo Sounder	Y	
Sidescan	Y	
Boomer	Y	
Heave Comp	Y	
Velocity Probe	Y	
ENSIN/CODA	Y	

Racal Personnel
EC Shuttleworth
M. Dybala
J Antao
L. Ethridge
P Fournier
Client Personnel
R Glanville

WX	Sea State	Swell	Wind Dir.
0000			
0600			
1200			
1800			

DIARY OF OPERATIONS

TIME	Time Zone=UTC+ 11
0000	At anchor in lee of Gabo Island.
1300	Deployed Sub-tow boomer for testing. Deployed ES pole to check HeCo.
1700	Recovered all equipment.
2400	Commence recover anchor.

Forms are to be completed daily in duplicate on all vessels. Each form should be countersigned by the Clients Representative, the original being retained on board until the next crew change or at the end of job, whichever is the earlier, when they should be returned to the PERTH office.

Signature _____
 SURVEYOR/ENGINEER

WHITE	: Accounts Department
BLUE	: Operations Department
YELLOW	: Clients Representative

Signature _____
 CLIENT REPRESENTATIVE



THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED DAILY RECORD SHEET

Date: 22 March 2002 Client: OMV Job No.: 3349C1 Vessel: Blue Fin Location: Bass Strait

Equipment	Op	
SkyFix	Y	
SkyFix Spot	Y	
Gyro	Y	
GNS 2	Y	
MultiFix 3	Y	
GRREP	Y	

Equipment	Op	
Echo Sounder	Y	
Sidescan	Y	
Boomer	Y	
Heave Comp	Y	
Velocity Probe	Y	
ENSIN/CODA	Y	

Racal Personnel
EC Shuttleworth
M.Dybala
J Antao
L.Ethridge
P Fournier
Client Personnel
R Glanville

WX	Sea State	Swell	Wind Dir.
0000		na	
0600	4	2m	SW
1200	3	1m	E
1800	5	1-2m	E

DIARY OF OPERATIONS

TIME	Time Zone=UTC+ 11
0000	Enroute to Sole-2 site..
0800	Arrive Sole-2 site. Deploy E/S pole.
0815	Deploy SVP probe. SV = 1517.8m/s.
0840	Deploy boomer and SSS.
0900	Deploy hydrophone. Start tuning gear.
0930	Heading for SOL
0956	Commenced analogue acquisition on Sole 2 site.
1700	Shooting from west to east, into prevailing seas, due to excess noise on boomer data.
1800	Return to shooting both directions.
2400	Continue on Sole 2 site survey.

Forms are to be completed daily in duplicate on all vessels. Each form should be countersigned by the Clients Representative, the original being retained on board until the next crew change or at the end of job, whichever is the earlier, when they should be returned to the PERTH office.

Signature _____
SURVEYOR/ENGINEER

WHITE	: Accounts Department
BLUE	: Operations Department
YELLOW	: Clients Representative

Signature _____
CLIENT REPRESENTATIVE



THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED DAILY RECORD SHEET

Date: 23 March 2002 Client: OMV Job No.: 3349C1 Vessel: Blue Fin Location: Bass Strait

Equipment	Op
SkyFix	Y
SkyFix Spot	Y
Gyro	Y
GNS 2	Y
MultiFix 3	Y
GRREP	Y

Equipment	Op
Echo Sounder	Y
Sidescan	Y
Boomer	Y
Heave Comp	Y
Velocity Probe	Y
ENSIN/CODA	Y

Racal Personnel
EC Shuttleworth
M.Dybala
J Antao
L.Ethridge
P Fournier
Client Personnel
R Glanville

WX	Sea State	Swell	Wind Dir.
0000	5	1-2m	E
0600	4	1-2m	NE
1200	3	1m	NE
1800	4	1-2m	NE

DIARY OF OPERATIONS

TIME	Time Zone=UTC+ 11
0000	Continue analogue acquisition on Sole 2 site.
1140	Complete analogue on Sole 2 site. Recover gear, deploy magnetometer.
1240	Magnetometer deployed, hdg wellhd.
1800	Magnetometer recovered. Preparing corer.
1910	Core S1 on Sole 2 site
1934	Core S2 On Sole 2 site
2000	Corer de-rigged. Analogue gear deployed. Hdg for line.
2041	Commenced scout line from Sole to meet scout line running north from Patricia Baleen,

Forms are to be completed daily in duplicate on all vessels. Each form should be countersigned by the Clients Representative, the original being retained on board until the next crew change or at the end of job, whichever is the earlier, when they should be returned to the PERTH office.

Signature _____
SURVEYOR/ENGINEER

- WHITE : Accounts Department
 BLUE : Operations Department
 YELLOW : Clients Representative

Signature _____
CLIENT REPRESENTATIVE



THALES GEOSOLUTIONS (AUSTRALASIA) LIMITED DAILY RECORD SHEET

Date: 24 March 2002	Client: OMV	Job No.: 3349C1	Vessel: Blue Fin	Location: Bass Strait
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PAGE 10 OF 10

Equipment	Op	
SkyFix	Y	
SkyFix Spot	Y	
Gyro	Y	
GNS 2	Y	
MultiFix 3	Y	
GRREP	Y	

Equipment	Op	
Echo Sounder	Y	
Sidescan	Y	
Boomer	Y	
Heave Comp	Y	
Velocity Probe	Y	
ENSIN/CODA	Y	

Racal Personnel
EC Shuttleworth
M.Dybala
J Antao
L.Ethridge
P Fournier
Client Personnel
R Glanville

WX	Sea State	Swell	Wind Dir.
0000	5	1-2m	E
0600	4	1-2m	NE
1200	3	1m	NE
1800	4	1-2m	NE

DIARY OF OPERATIONS

TIME	Time Zone=UTC+ 11
0000	Continue analogue acquisition on scout line from Sole-2 to Patricia/Baleen pipe route.
0330	Finish scout line. Recover survey spread.
0400	Commence transit to Port Welshpool.

Forms are to be completed daily in duplicate on all vessels. Each form should be countersigned by the Clients Representative, the original being retained on board until the next crew change or at the end of job, whichever is the earlier, when they should be returned to the PERTH office.

Signature _____
SURVEYOR/ENGINEER

WHITE	: Accounts Department
BLUE	: Operations Department
YELLOW	: Clients Representative

Signature _____
CLIENT REPRESENTATIVE

THALES

DAILY PROJECT REPORT

ALL TIMES ARE WST

VESSEL:	Blue Fin	PROJECT No.:	3346C1	REPORT No.:	1	DATE:	15 March 2002
To:	TGA Perth	Attn:	Operations - N. Mackay			Fax 08 9344 8783	
To:	OMV Australia Pty Ltd	Attn:	Ron King			Via: TGA Perth	
Copy:	TGGL Compass House	Attn:	Audrey Maysh			Via: TGA Perth	

AA. LOCATION AT 2359 hrs:
Beauty Point, Tasmania

BB. WEATHER:
Na

CC. OPERATIONAL DATA:
C2. PERSONNEL

	Racal	Sub-Cont	Client	Vessel	Today	Total Project To Date
No. of Persons	4	0	1	0	5	5
Man-Hours	96	0	24	0	120	120
No. On Today	4	0	1	4	9	9
No. Off Today	0	0	0	0	0	0

C3. SURVEY PROGRESS

Area of Activity	Percent Complete (at end of today)
Mobilisation	60
Patricia 2	0
Baleen 3	0
Pipe route	0
Sole 2	0
Demobilisation	0

C4. RE RUNS TODAY

C5. SUMMARY OF CHARGEABLE TIME

	Today (hours)				Weather	Total (hours)			
	Working	Transit	Downtime	Weather		Working	Transit	Downtime	Weather
Patricia 2	0	0	0	0	0	0	0	0	
Baleen 3									
Pipe route									
Sole 2									

DD. HSE REPORT:

	Today	To Date
TOTAL HAZARDS/INCIDENTS REPORTED:	0	0
TOTAL MINOR INJURIES:	0	0
TOTAL LTI:	0	0
DETAILS OF INCIDENTS AND DRILLS TODAY:	Vessel Induction and Pre-MOB Safety Meeting	

EE. EVENT DIARY TODAY (all times WST)

From	To	Activity	Code	Hours
0000	0800	Wait on equipment	MOB/DEMO	8
0800	2000	Mobilisation	MOB/DEMO	12
2000	2400	Standby	MOB/DEMO	4

FF. TIME SUMMARY:

Rate	Code	Hours	Acc. Hours
Standby and/or Weather	STBY	0	0
Disputed Time	DT	0	0
Transit	TR	0	0
Downtime	TD	0	0
Working	OP	0	0
Mobilisation / Demobilisation	MOB/DEMO	24	24
Breakdown (Vessel)	VD/STBY	0	0
Other Nil Revenue Time	CT	0	0
	TOTAL	24	24

GG. EXPECTED WEATHER FOR NEXT 24 HOURS:

Na

HH. TECHNICAL & PARTY CHIEF'S COMMENTS:

Mob progressing satisfactorily.

II. CLIENT REPRESENTATIVE'S COMMENTS:

Nil

JJ. PROGRAMME FOR NEXT 24 HOURS:

Continue Mobilisation and Equipment testing. Expect to depart 1800 hrs.

Signed for Thales GeoSolutions

Signed for OMV Australia Pty Ltd

Chris Shuttleworth
(Party Chief)Rick Glanville
(Client Representative)

THALES

DAILY PROJECT REPORT

ALL TIMES ARE WST

VESSEL:	<i>Blue Fin</i>	PROJECT No.:	3346C1	REPORT No.:	2	DATE:	16 March 2002
To:	TGA Perth	Attn:	Operations - N. Mackay	Fax 08 9344 8783			
To:	OMV Australia Pty Ltd	Attn:	Ron King	Via: TGA Perth			
Copy:	TGGL Compass House	Attn:	Audrey Maysh	Via: TGA Perth			

AA. LOCATION AT 2359 hrs:
40° 58" S, 146° 46" E

BB. WEATHER:
NW 30 kn, 2m seas

CC. OPERATIONAL DATA:
C2. PERSONNEL

	Racal	Sub-Cont	Client	Vessel	Today	Total Project To Date
No. of Persons	5	0	1	5	11	16
Man-Hours	120	0	24	120	262	382
No. On Today	1	0	0	1	2	11
No. Off Today	0	0	0	0	0	0

C3. SURVEY PROGRESS

Area of Activity	Percent Complete (at end of today)
Mobilisation	100
Patricia 2	0
Baleen 3	0
Pipe route	0
Sole 2	0
Demobilisation	0

C4. RE RUNS TODAY

C5. SUMMARY OF CHARGEABLE TIME

	Today (hours)				Total (hours)			
	Working	Transit	Downtime	Weather	Working	Transit	Downtime	Weather
Patricia 2	0	6	0	0	0	6	0	0
Baleen 3								
Pipe route								
Sole 2								

DD. HSE REPORT:

	Today	To Date
TOTAL HAZARDS/INCIDENTS REPORTED:	0	0
TOTAL MINOR INJURIES:	0	0
TOTAL LTI:	0	0
DETAILS OF INCIDENTS AND DRILLS TODAY:	Fire & Abandon Boat Drill	

EE. EVENT DIARY TODAY (all times WST)

From	To	Activity	Code	Hours
0000	0700	Standby	MOB/DEMO	7
0700	1800	Mobilisation	MOB/DEMO	11
1800	2400	Transit. Depart Beauty Point	TR	6

FF. TIME SUMMARY:

Rate	Code	Hours	Acc. Hours
Standby and/or Weather	STBY	0	0
Disputed Time	DT	0	0
Transit	TR	6	6
Downtime	TD	0	0
Working	OP	0	0
Mobilisation / Demobilisation	MOB/DEMO	18	42
Breakdown (Vessel)	VD/STBY	0	0
Other Nil Revenue Time	CT	0	0
	TOTAL	24	48

GG. EXPECTED WEATHER FOR NEXT 24 HOURS:

NW 20-30 kn, back SW 20-30 kn, then moderating

HH. TECHNICAL & PARTY CHIEF'S COMMENTS:

Mob completed.

II. CLIENT REPRESENTATIVE'S COMMENTS:

Nil

JJ. PROGRAMME FOR NEXT 24 HOURS:

Transit to Patricia. ETA 1400 hrs 17/03/02. Commence proof of wellheads. Acquisition.

Signed for Thales GeoSolutions

Signed for OMV Australia Pty Ltd

Chris Shuttleworth
(Party Chief)

Rick Glanville
(Client Representative)

THALES

DAILY PROJECT REPORT

ALL TIMES ARE WST

VESSEL:	<i>Blue Fin</i>	PROJECT No.:	3346C1	REPORT No.:	3	DATE:	17 March 2002
To:	TGA Perth	Attn:	Operations - N. Mackay	Fax 08 9344 8783			
To:	OMV Australia Pty Ltd	Attn:	Ron King	Via: TGA Perth			
Copy:	TGGL Compass House	Attn:	Audrey Maysh	Via: TGA Perth			

AA. LOCATION AT 2359 hrs:
At anchor on Patricia 2 site

BB. WEATHER:
SW 15 kn, 2m seas

CC. OPERATIONAL DATA:
C2. PERSONNEL

	Racal	Sub-Cont	Client	Vessel	Today	Total Project To Date
No. of Persons	5	0	1	5	11	27
Man-Hours	120	0	24	120	262	644
No. On Today	0	0	0	0	0	11
No. Off Today	0	0	0	0	0	0

C3. SURVEY PROGRESS

Area of Activity

**Percent Complete
(at end of today)**

Mobilisation	100
Patricia 2	0
Baleen 3	0
Pipe route	0
Sole 2	0
Demobilisation	0

C4. RE RUNS TODAY

C5. SUMMARY OF CHARGEABLE TIME

	Today (hours)				Weather	Total (hours)			
	Working	Transit	Downtim e	Weather		Working	Transit	Downtim e	Weather
Patricia 2	0	18.75	0	5.25	0	24.75	0	5.25	
Baleen 3									
Pipe route									
Sole 2									

DD. HSE REPORT:

	Today	To Date
TOTAL HAZARDS/INCIDENTS REPORTED:	0	0
TOTAL MINOR INJURIES:	0	0
TOTAL LTI:	0	0
DETAILS OF INCIDENTS AND DRILLS TODAY:	0	0

EE. EVENT DIARY TODAY (all times WST)

From	To	Activity	Code	Hours
0000	1845	Transit	TR	18.75
1845	2400	Standby at anchor, Patricia 2 site	STBY	5.25

FF. TIME SUMMARY:

Rate	Code	Hours	Acc. Hours
Standby and/or Weather	STBY	5.25	5.25
Disputed Time	DT	0	0
Transit	TR	18.75	24.75
Downtime	TD	0	0
Working	OP	0	0
Mobilisation / Demobilisation	MOB/DEMO	18	42
Breakdown (Vessel)	VD/STBY	0	0
Other Nil Revenue Time	CT	0	0
	TOTAL	24	72

GG. EXPECTED WEATHER FOR NEXT 24 HOURS:

SW back NW inc 20-30 kn. Seas dec to 1m then inc again.

HH. TECHNICAL & PARTY CHIEF'S COMMENTS:

Expect seas to remain low when wind is NW from off the land. Geko Beta 30m south of sites.

II. CLIENT REPRESENTATIVE'S COMMENTS:

Nil

JJ. PROGRAMME FOR NEXT 24 HOURS:

SSS dynamic position on Patricia 1 wellhead. Commence acquisition Patricia 2.

Signed for Thales GeoSolutions

Signed for OMV Australia Pty Ltd

Chris Shuttleworth
(Party Chief)

Rick Glanville
(Client Representative)

THALES

DAILY PROJECT REPORT

ALL TIMES ARE WST

VESSEL:	<i>Blue Fin</i>	PROJECT No.:	3346C1 3347C1	REPORT No.:	4	DATE:	18 March 2002
To:	TGA Perth	Attn:	Operations - N. Mackay			Fax 08 9344 8783	
To:	OMV Australia Pty Ltd	Attn:	Ron King	Via:	TGA Perth		
Copy:	TGGL Compass House	Attn:	Audrey Maysh	Via:	TGA Perth		

AA. LOCATION AT 2359 hrs:
On Baleen 3 site

BB. WEATHER:
SW 15 kn, 1m seas

CC. OPERATIONAL DATA:
C2. PERSONNEL

	Racal	Sub-Cont	Client	Vessel	Today	Total Project To Date
No. of Persons	5	0	1	5	11	38
Man-Hours	120	0	24	120	262	906
No. On Today	0	0	0	0	0	0
No. Off Today	0	0	0	0	0	0

C3. SURVEY PROGRESS

Area of Activity	Percent Complete (at end of today)
Mobilisation	100
Patricia 2	90
Baleen 3	10
Pipe route	0
Sole 2	0
Demobilisation	0

C4. RE RUNS TODAY

C5. SUMMARY OF CHARGEABLE TIME

	Today (hours)			Weather	Total (hours)			Weather
	Working	Transit	Downtime		Working	Transit	Downtime	
Patricia 2	18.5	0	0	5.5	18.5	24.75	0	10.75
Baleen 3								
Pipe route								
Sole 2								

DD. HSE REPORT:

	Today	To Date
TOTAL HAZARDS/INCIDENTS REPORTED:	0	0
TOTAL MINOR INJURIES:	0	0
TOTAL LTI:	0	0
DETAILS OF INCIDENTS AND DRILLS TODAY:	0	0

EE. EVENT DIARY TODAY (all times WST)

From	To	Activity	Code	Hours
0000	0530	Standby at anchor on Patricia site.	STBY	5.5
0530	2130	Analogue acquisition on Patricia 2 site	OP	16
2130	2400	Analogue acquisition on Baleen 3 site	OP	2.5

FF. TIME SUMMARY:

Rate	Code	Hours	Acc. Hours
Standby and/or Weather	STBY	5.5	10.75
Disputed Time	DT	0	0
Transit	TR	0	24.75
Downtime	TD	0	0
Working	OP	18.5	18.5
Mobilisation / Demobilisation	MOB/DEMO	0	42
Breakdown (Vessel)	VD/STBY	0	0
Other Nil Revenue Time	CT	0	0
	TOTAL	24	96

GG. EXPECTED WEATHER FOR NEXT 24 HOURS:

W/SW 20-30 kn, seas 2-4m, dec 10-20 kn, seas 1-2m

HH. TECHNICAL & PARTY CHIEF'S COMMENTS:

Patricia 2 site completed excepting coring. No heave on Deso 15 ES, but applied in GNS.

II. CLIENT REPRESENTATIVE'S COMMENTS:

Nil

JJ. PROGRAMME FOR NEXT 24 HOURS:

Continue Baleen 3 analogue acquisition, then magnetometer over wellheads, then coring.

Signed for Thales GeoSolutions

Signed for OMV Australia Pty Ltd

Chris Shuttleworth
(Party Chief)

Rick Glanville
(Client Representative)

THALES

DAILY PROJECT REPORT

ALL TIMES ARE WST

VESSEL:	<i>Blue Fin</i>	PROJECT No.:	3347C1	REPORT No.:	5	DATE:	19 March 2002
To:	TGA Perth	Attn:	Operations - N. Mackay	Fax 08 9344 8783			
To:	OMV Australia Pty Ltd	Attn:	Ron King	Via: TGA Perth			
Copy:	TGGL Compass House	Attn:	Audrey Maysh	Via: TGA Perth			

AA. LOCATION AT 2359 hrs:

On pipe route, 37 56 S 148 26 E

BB. WEATHER:

SW 15 kn, 1m seas

CC. OPERATIONAL DATA:

C2. PERSONNEL

	Racal	Sub-Cont	Client	Vessel	Today	Total Project To Date
No. of Persons	5	0	1	5	11	49
Man-Hours	120	0	24	120	262	1168
No. On Today	0	0	0	0	0	0
No. Off Today	0	0	0	0	0	0

C3. SURVEY PROGRESS

Area of Activity

**Percent Complete
(at end of today)**

Mobilisation	100
Patricia 2	100
Baleen 3	100
Pipe route	10
Sole 2	0
Demobilisation	0

C4. RE RUNS TODAY

C5. SUMMARY OF CHARGEABLE TIME

	Today (hours)				Total (hours)			
	Working	Transit	Downtime	Weather	Working	Transit	Downtime	Weather
Patricia 2	24	0	0	0	42.5	24.75	0	10.75
Baleen 3								
Pipe route								
Sole 2								

DD. HSE REPORT:

	Today	To Date
TOTAL HAZARDS/INCIDENTS REPORTED:	0	0
TOTAL MINOR INJURIES:	0	0
TOTAL LTI:	0	0
DETAILS OF INCIDENTS AND DRILLS TODAY:	0	0

EE. EVENT DIARY TODAY (all times WST)

From	To	Activity	Code	Hours
0000	1230	Analogue acquisition on Baleen 3	OP	12.5
1230	1800	Magnetometer check on wellheads		5.5
1800	2130	Core & grab samples, Patricia & Baleen		3.5
2130	2400	Pipe route development		2.5

FF. TIME SUMMARY:

Rate	Code	Hours	Acc. Hours
Standby and/or Weather	STBY	0	10.75
Disputed Time	DT	0	0
Transit	TR	0	24.75
Downtime	TD	0	0
Working	OP	24	42.5
Mobilisation / Demobilisation	MOB/DEMO	0	42
Breakdown (Vessel)	VD/STBY	0	0
Other Nil Revenue Time	CT	0	0
	TOTAL	24	120

GG. EXPECTED WEATHER FOR NEXT 24 HOURS:

NW inc 25-35 kn, back W/SW inc 30-40 kn.

HH. TECHNICAL & PARTY CHIEF'S COMMENTS:

Patricia 2 & Baleen 3 sites complete.

II. CLIENT REPRESENTATIVE'S COMMENTS:

Nil

JJ. PROGRAMME FOR NEXT 24 HOURS:

Complete pipe route development, transit & commence on Sole, weather permitting.

Signed for Thales GeoSolutions

Signed for OMV Australia Pty Ltd

Chris Shuttleworth
(Party Chief)

Rick Glanville
(Client Representative)

THALES

DAILY PROJECT REPORT

ALL TIMES ARE WST

VESSEL:	<i>Blue Fin</i>	PROJECT No.:	3348C1 3349C1	REPORT No.:	6	DATE:	20 March 2002
To:	TGA Perth	Attn:	Operations - N. Mackay			Fax 08 9344 8783	
To:	OMV Australia Pty Ltd	Attn:	Ron King	Via:	TGA Perth		
Copy:	TGGL Compass House	Attn:	Audrey Maysh	Via:	TGA Perth		

AA. LOCATION AT 2359 hrs:
At anchor, lee of Gabo Isl., 37 33, S. 149 55, E

BB. WEATHER:
SW 35 kn.

CC. OPERATIONAL DATA:
C2. *PERSONNEL*

	Racal	Sub-Cont	Client	Vessel	Today	Total Project To Date
No. of Persons	5	0	1	5	11	60
Man-Hours	120	0	24	120	262	1430
No. On Today	0	0	0	0	0	0
No. Off Today	0	0	0	0	0	0

C3. *SURVEY PROGRESS*

Area of Activity	Percent Complete (at end of today)
Mobilisation	100
Patricia 2	100
Baleen 3	100
Pipe route	100
Sole 2	0
Demobilisation	0

C4. *RE RUNS TODAY*

C5. *SUMMARY OF CHARGEABLE TIME*

	Today (hours)				Total (hours)			
	Working	Transit	Downtime	Weather	Working	Transit	Downtime	Weather
Patricia 2	9	2	0	13	51.5	26.75	0	23.75
Baleen 3								
Pipe route								
Sole 2								

DD. HSE REPORT:

	Today	To Date
TOTAL HAZARDS/INCIDENTS REPORTED:	0	0
TOTAL MINOR INJURIES:	0	0
TOTAL LTI:	0	0
DETAILS OF INCIDENTS AND DRILLS TODAY:	0	0

EE. EVENT DIARY TODAY (all times WST)

From	To	Activity	Code	Hours
0000	0900	Pipe route development	OP	9
0900	1100	Transit to Sole	TR	2
1100	1700	Divert to Gabo Isl	STBY	6
1700	2400	At anchor in lee of Gabo Island	STBY	7

FF. TIME SUMMARY:

Rate	Code	Hours	Acc. Hours
Standby and/or Weather	STBY	13	23.75
Disputed Time	DT	0	0
Transit	TR	2	26.75
Downtime	TD	0	0
Working	OP	9	51.5
Mobilisation / Demobilisation	MOB/DEMO	0	42
Breakdown (Vessel)	VD/STBY	0	0
Other Nil Revenue Time	CT	0	0
	TOTAL	24	120

GG. EXPECTED WEATHER FOR NEXT 24 HOURS:

Continue SW 30 kn

HH. TECHNICAL & PARTY CHIEF'S COMMENTS:

Pipe route development completed.

II. CLIENT REPRESENTATIVE'S COMMENTS:

Nil

JJ. PROGRAMME FOR NEXT 24 HOURS:

Commence on Sole, weather permitting.

Signed for Thales GeoSolutions

Signed for OMV Australia Pty Ltd

Chris Shuttleworth
(Party Chief)

Rick Glanville
(Client Representative)

THALES

DAILY PROJECT REPORT

ALL TIMES ARE WST

VESSEL:	<i>Blue Fin</i>	PROJECT No.:	3349C1	REPORT No.:	7	DATE:	21 March 2002
To:	TGA Perth	Attn:	Operations - N. Mackay	Fax 08 9344 8783			
To:	OMV Australia Pty Ltd	Attn:	Ron King	Via: TGA Perth			
Copy:	TGGL Compass House	Attn:	Audrey Maysh	Via: TGA Perth			

AA. LOCATION AT 2359 hrs:

At anchor, lee of Gabo Isl., 37 33, S. 149 55, E

BB. WEATHER:

In lee.

CC. OPERATIONAL DATA:

C2. PERSONNEL

	Racal	Sub-Cont	Client	Vessel	Today	Total Project To Date
No. of Persons	5	0	1	5	11	71
Man-Hours	120	0	24	120	262	1692
No. On Today	0	0	0	0	0	0
No. Off Today	0	0	0	0	0	0

C3. SURVEY PROGRESS

Area of Activity

**Percent Complete
(at end of today)**

Mobilisation	100
Patricia 2	100
Baleen 3	100
Pipe route	100
Sole 2	0
Demobilisation	0

C4. RE RUNS TODAY

C5. SUMMARY OF CHARGEABLE TIME

	Today (hours)				Weather	Total (hours)			
	Working	Transit	Downtime	Weather		Working	Transit	Downtime	Weather
Patricia 2	0	0	0	24	51.5	26.75	0	47.75	
Baleen 3									
Pipe route									
Sole 2									

DD. HSE REPORT:

	Today	To Date
TOTAL HAZARDS/INCIDENTS REPORTED:	0	0
TOTAL MINOR INJURIES:	0	0
TOTAL LTI:	0	0
DETAILS OF INCIDENTS AND DRILLS TODAY:	0	0

EE. EVENT DIARY TODAY (all times WST)

From	To	Activity	Code	Hours
1700	2400	At anchor in lee of Gabo Island	STBY	24

FF. TIME SUMMARY:

Rate	Code	Hours	Acc. Hours
Standby and/or Weather	STBY	24	47.75
Disputed Time	DT	0	0
Transit	TR	0	26.75
Downtime	TD	0	0
Working	OP	0	51.5
Mobilisation / Demobilisation	MOB/DEMO	0	42
Breakdown (Vessel)	VD/STBY	0	0
Other Nil Revenue Time	CT	0	0
	TOTAL	24	144

GG. EXPECTED WEATHER FOR NEXT 24 HOURS:

SW 15-25 kn., dec 10-15kn, swell dec 3-4 to <2m

HH. TECHNICAL & PARTY CHIEF'S COMMENTS:

Anchor recover at midnight. ETA on location 0700hrs 220302.

II. CLIENT REPRESENTATIVE'S COMMENTS:

Nil

JJ. PROGRAMME FOR NEXT 24 HOURS:

Commence on Sole with analogue acquisition

Signed for Thales GeoSolutions

Signed for OMV Australia Pty Ltd

Chris Shuttleworth
(Party Chief)

Rick Glanville
(Client Representative)

THALES

DAILY PROJECT REPORT

ALL TIMES ARE WST

VESSEL:	Blue Fin	PROJECT No.:	3349C1	REPORT No.:	8	DATE:	22 March 2002
To:	TGA Perth	Attn:	Operations - N. Mackay			Fax 08 9344 8783	
To:	OMV Australia Pty Ltd	Attn:	Ron King			Via: TGA Perth	
Copy:	TGGL Compass House	Attn:	Audrey Maysh			Via: TGA Perth	

AA. LOCATION AT 2359 hrs:
Sole 2 location

BB. WEATHER:
NE 20 kn, 1-2m seas

CC. OPERATIONAL DATA:
C2. PERSONNEL

	Racal	Sub-Cont	Client	Vessel	Today	Total Project To Date
No. of Persons	5	0	1	5	11	82
Man-Hours	120	0	24	120	262	1954
No. On Today	0	0	0	0	0	0
No. Off Today	0	0	0	0	0	0

C3. SURVEY PROGRESS

Area of Activity	Percent Complete (at end of today)
Mobilisation	100
Patricia 2	100
Baleen 3	100
Pipe route	100
Sole 2	50
Scout pipe route	0
Demobilisation	0

C4. RE RUNS TODAY

C5. SUMMARY OF CHARGEABLE TIME

	Today (hours)				Total (hours)			
	Working	Transit	Downtime	Weather	Working	Transit	Downtime	Weather
Patricia 2	16	0	0	8	67.5	26.75	0	55.75
Baleen 3								
Pipe route								
Sole 2								

DD. HSE REPORT:

	Today	To Date
TOTAL HAZARDS/INCIDENTS REPORTED:	0	0
TOTAL MINOR INJURIES:	0	0
TOTAL LTI:	0	0
DETAILS OF INCIDENTS AND DRILLS TODAY:	0	0

EE. EVENT DIARY TODAY (all times WST)

From	To	Activity	Code	Hours
0000	0800	En route Gabo Isl. To Sole 2 site	STBY	8
0800	1000	Deploy & tune equipment	OP	2
1000	2400	Analogue acquisition on Sole 2 site	OP	14

FF. TIME SUMMARY:

Rate	Code	Hours	Acc. Hours
Standby and/or Weather	STBY	8	55.75
Disputed Time	DT	0	0
Transit	TR	0	26.75
Downtime	TD	0	0
Working	OP	16	67.5
Mobilisation / Demobilisation	MOB/DEMO	0	42
Breakdown (Vessel)	VD/STBY	0	0
Other Nil Revenue Time	CT	0	0
	TOTAL	24	168

GG. EXPECTED WEATHER FOR NEXT 24 HOURS:

Cont. E/NE 10-15 kn

HH. TECHNICAL & PARTY CHIEF'S COMMENTS:

Scout line pipe route from Sole 2 location to meet line Patricia Ballen-15m contour added to programme

II. CLIENT REPRESENTATIVE'S COMMENTS:

Nil

JJ. PROGRAMME FOR NEXT 24 HOURS:

Continue on Sole with analogue acquisition, magnetometer search, coring & scout line, head Welshpool.

Signed for Thales GeoSolutions

Signed for OMV Australia Pty Ltd

Chris Shuttleworth
(Party Chief)

Rick Glanville
(Client Representative)

THALES

DAILY PROJECT REPORT

ALL TIMES ARE WST

VESSEL:	<i>Blue Fin</i>	PROJECT No.:	3349C1 3375C1	REPORT No.:	9	DATE:	23 March 2002
To:	TGA Perth	Attn:	Operations - N. Mackay			Fax 08 9344 8783	
To:	OMV Australia Pty Ltd	Attn:	Ron King	Via:	TGA Perth		
Copy:	TGGL Compass House	Attn:	Audrey Maysh	Via:	TGA Perth		

AA. LOCATION AT 2359 hrs:
On scout line 38 03 S, 148 53 E

BB. WEATHER:
NE 20 kn, 1-2m seas

CC. OPERATIONAL DATA:
C2. *PERSONNEL*

	Racal	Sub-Cont	Client	Vessel	Today	Total Project To Date
No. of Persons	5	0	1	5	11	93
Man-Hours	120	0	24	120	262	2216
No. On Today	0	0	0	0	0	0
No. Off Today	0	0	0	0	0	0

C3. *SURVEY PROGRESS*

Area of Activity	Percent Complete (at end of today)
Mobilisation	100
Patricia 2	100
Baleen 3	100
Pipe route	100
Sole 2	100
Scout pipe route	50
Demobilisation	0

C4. *RE RUNS TODAY*

C5. *SUMMARY OF CHARGEABLE TIME*

	Today (hours)				Total (hours)			
	Working	Transit	Downtime	Weather	Working	Transit	Downtime	Weather
Patricia 2	24	0	0	0	91.5	26.75	0	55.75
Baleen 3								
Pipe route								
Sole 2								

DD. HSE REPORT:

	Today	To Date
TOTAL HAZARDS/INCIDENTS REPORTED:	0	0
TOTAL MINOR INJURIES:	0	0
TOTAL LTI:	0	0
DETAILS OF INCIDENTS AND DRILLS TODAY:	0	0

EE. EVENT DIARY TODAY (all times WST)

From	To	Activity	Code	Hours
0000	1200	Analogue acquisition on Sole 2 site	OP	12
1200	1800	Magnetometer search for Sole 1 wellhead	OP	6
1800	2000	Coring	OP	2
2000	2400	Scout line, Sole to line north of Patricia Baleen	OP	4

FF. TIME SUMMARY:

Rate	Code	Hours	Acc. Hours
Standby and/or Weather	STBY	0	55.75
Disputed Time	DT	0	0
Transit	TR	0	26.75
Downtime	TD	0	0
Working	OP	24	91.5
Mobilisation / Demobilisation	MOB/DEMO	0	42
Breakdown (Vessel)	VD/STBY	0	0
Other Nil Revenue Time	CT	0	0
	TOTAL	24	216

GG. EXPECTED WEATHER FOR NEXT 24 HOURS:

Cont. E/NE 10-15 kn

HH. TECHNICAL & PARTY CHIEF'S COMMENTS:

ETA Port Welshpool now delayed to approx 1600 hrs 24/03/02

II. CLIENT REPRESENTATIVE'S COMMENTS:

Sole 1 magnetometer runs proved location of seabed disturbance as observed on sidescan to be wellhead position.

JJ. PROGRAMME FOR NEXT 24 HOURS:

Complete scout line, head Port Welshpool for data drop & discharge magnetometers

Signed for Thales GeoSolutions

Signed for OMV Australia Pty Ltd

Chris Shuttleworth
(Party Chief)

Rick Glanville
(Client Representative)



OMV Australia





INTEQ



INTEQ LOG SUITE

Formation Evaluation
Drilling Data Plot

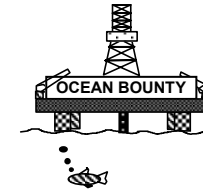
Pressure Data Plot
Pressure Summary Plot

ABBREVIATIONS

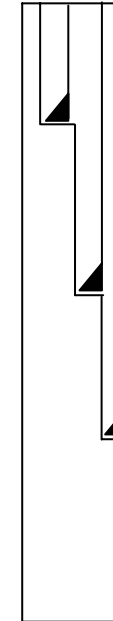
NB	New Bit	MD	Measured Depth
RR	Rerun Bit	GPM	Gallons per Min
CB	Core Bit	PP	Pump Pressure
WOB	Weight on Bit	MW	Mud Weight sg
RPM	Revs per Minute	FV	Funnel Viscosity
FLC	Flow Check	F	Filtrate - API
CR	Circulate Returns	FC	Filter Cake
PR	Poor Returns	PV	Plastic Viscosity
NR	No Returns	YP	Yield Point
BG	Background Gas	Sol	Solids %
WTG	Wiper Trip Gas	Sd	Sand %
TG	Trip Gas	Cl	Chlorides
POG	Pumps Off Gas	RM	Mud Resistivity
CG	Connection Gas	RMF	Filtrate Resistivity
SG	Swab Gas	TVD	True Vertical Depth

LITHOLOGY SYMBOLS

Calcarenite Ca	Calcsiltite Cs	Calcilutite Cl	Glaucinite Glauc
Dolomite Dol	Marl Mrl	Conglomerate Cgl	Pyrite Pyr
Sandstone Sst	Siltstone Sltst	Claystone Clst	Radiolaria
Mica Mic	Cement Cmt	Coal C	Calc Claystone CalcClst



Permanent Datum - LAT
Sealevel 25mRT
52.5m (LAT)



Seabed @ 77.5m
Drilling Fluid: Seawater / Hi-vis sweeps
36" hole to 111.5m
30" x 20" csg set @ 111.5m
Drilling Fluid: Seawater / Hi-vis sweeps
17.5" hole to 334m
13.375" csg set @ 327.1m
Drilling Fluid: KCl / PHPA / Glycol
12.25" hole to 884m
9.625" csg set @ 872.3m
Drilling Fluid: FLO - PRO
8.5" hole to 1385m TD

Company OMV Australia Pty Ltd

Well Patricia-2

Permit VIC/L21

Region Gippsland Sub Basin

Designation Field Development

Coordinates 038° 01' 39.95" S Lat
148° 26' 57.78" E Long

Ref Elevation RT 25 m

Total Depth 1385 mRT

Contractor Diamond Offshore General Co.

Rig MODU Ocean Bounty

Type Semi-Submersible

LOG INTERVAL

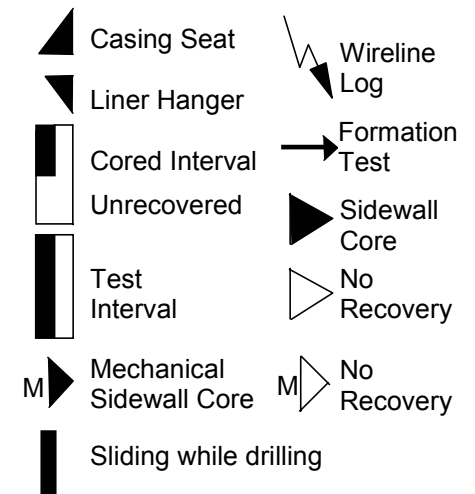
Depth 77.5 mRT to 1385 mRT

Date 20 – 28 June 2002

Scale 1:500

Data Engineers R. Tadiar, J. Wilson, R. Tena

Loggers E. Spence, M. Dixon, T. Liang



FORMATION EVALUATION LOG

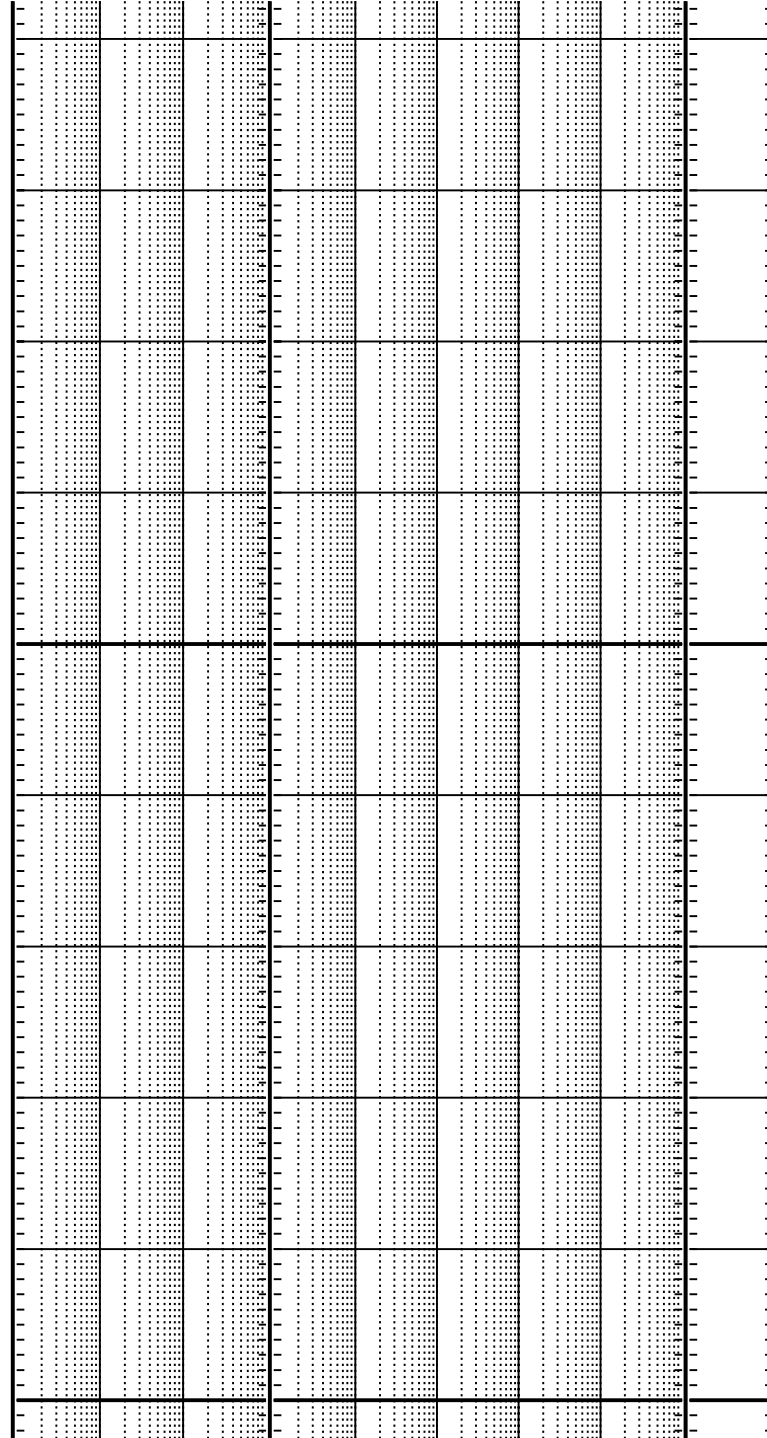
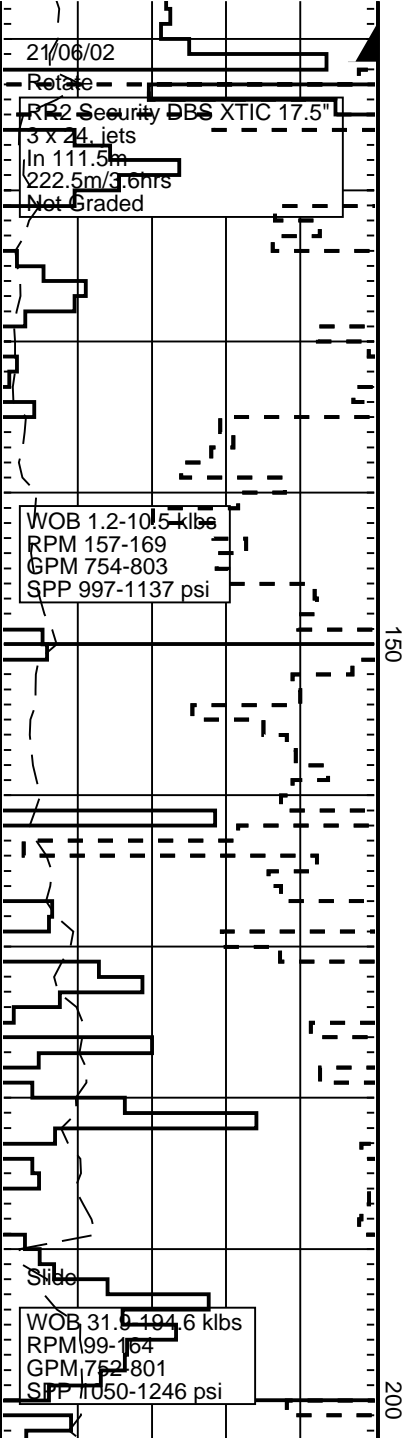
Patricia-2

SCALE: 1:500

WOB (klb)	ROP (m/hr)	ROP(Backup) (m/hr)	DEPTH (MRT LAT)	CORE	LITHOLOGY %	INTERPRETED LITHOLOGY	HC SHOWS	CUT FLUORESCENCE	TOTAL GAS	CHROMATOGRAPH					CALC	REMARKS										
									Total Gas %	Methane	Ethane	Propane	Iso-Butane	Normal-Butane	Iso-Pentane		Normal-Pentane (ppm)	%								
									0.01	0.1	1	10	1	10	100	1k	10k	100k	75	50	25	Calcite	75	50	25	Dolomite
									<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> RT - Sealevel = 25m Water Depth = 52.5m RT - Seabed = 77.5m </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> Spud Patricia-2 @ 16:00hrs on 20/06/02 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> All depths refer to rotary table (RT) unless otherwise stated </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> Drill with PHG sweeps and seawater Returns to seabed </div> <div style="border: 1px solid black; padding: 5px;"> Drill 36" hole to 111.5mRT Set 30"/20" casing shoe @ 111.5m </div>																	

RR1 Smith DSJC 26"
 3 x 24, 1x 17 jets w/ 1/16" H.O.
 In 77.5m 34m/0.6hrs
 Not Graded

WOB 2.8-11.7 klbs
 RPM 12.9-173.5
 GPM 208-1480
 SPP 38-11034 psi



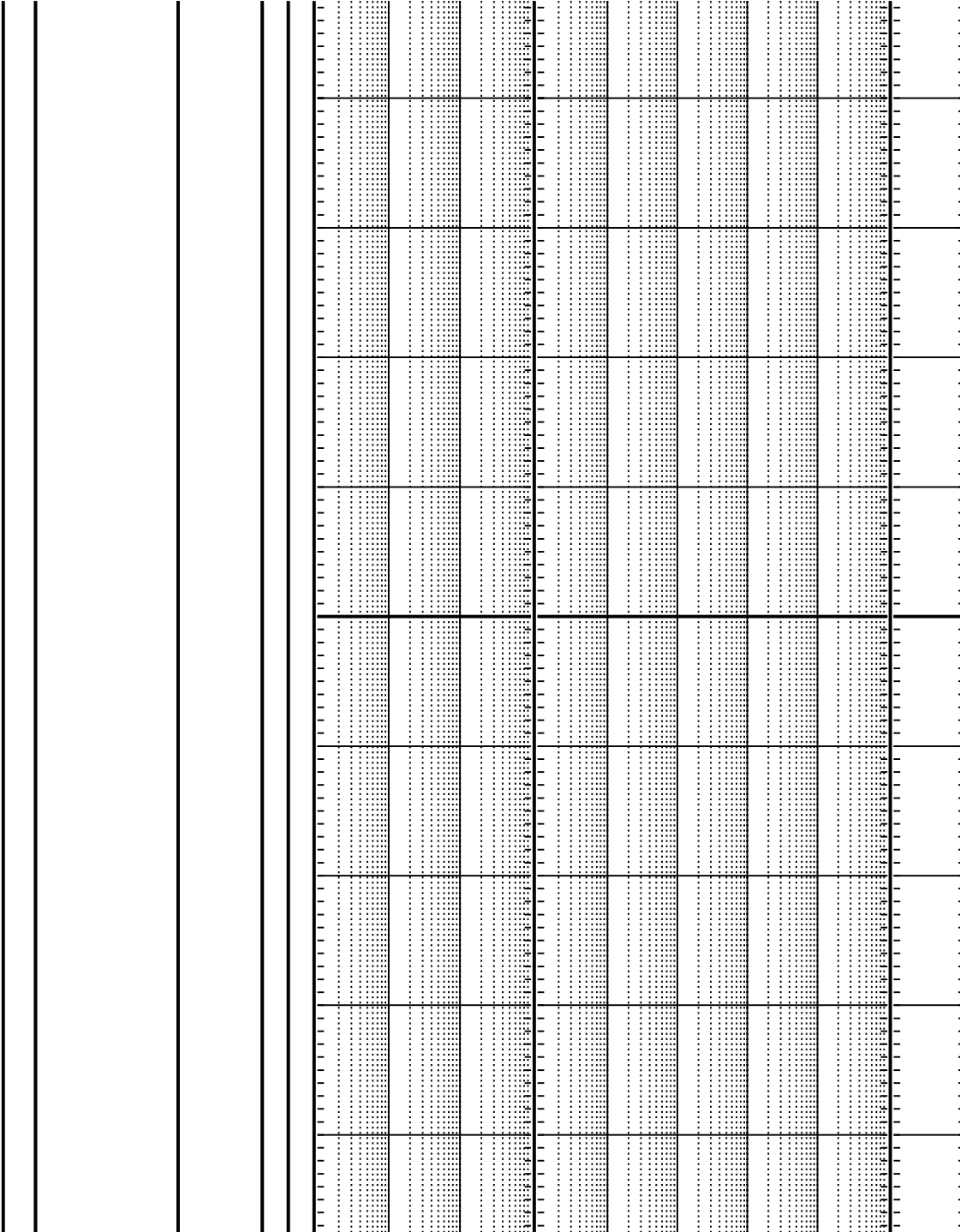
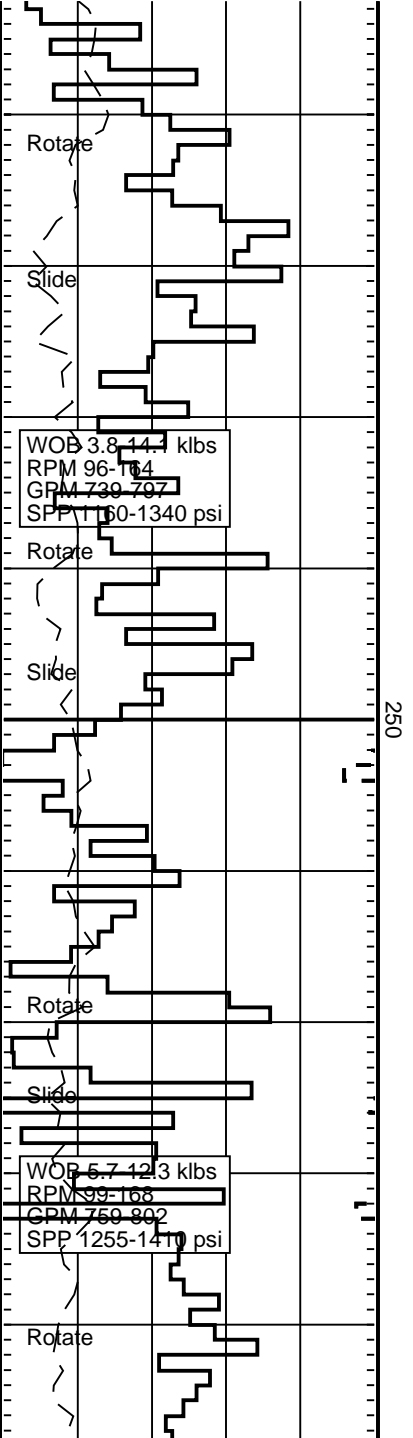
Survey @ 137.95m
Dev 0.98deg
Azi 9.90deg
TVD 137.95m

Drill with PHG sweeps and seawater
Returns to seabed

Survey @ 165.42m
Dev 1.05deg
Azi 16.31deg
TVD 165.41m

Drill with PHG sweeps and seawater
Returns to seabed

Survey @ 192.59m
Dev 1.25deg
Azi 321.00deg
TVD 192.58m



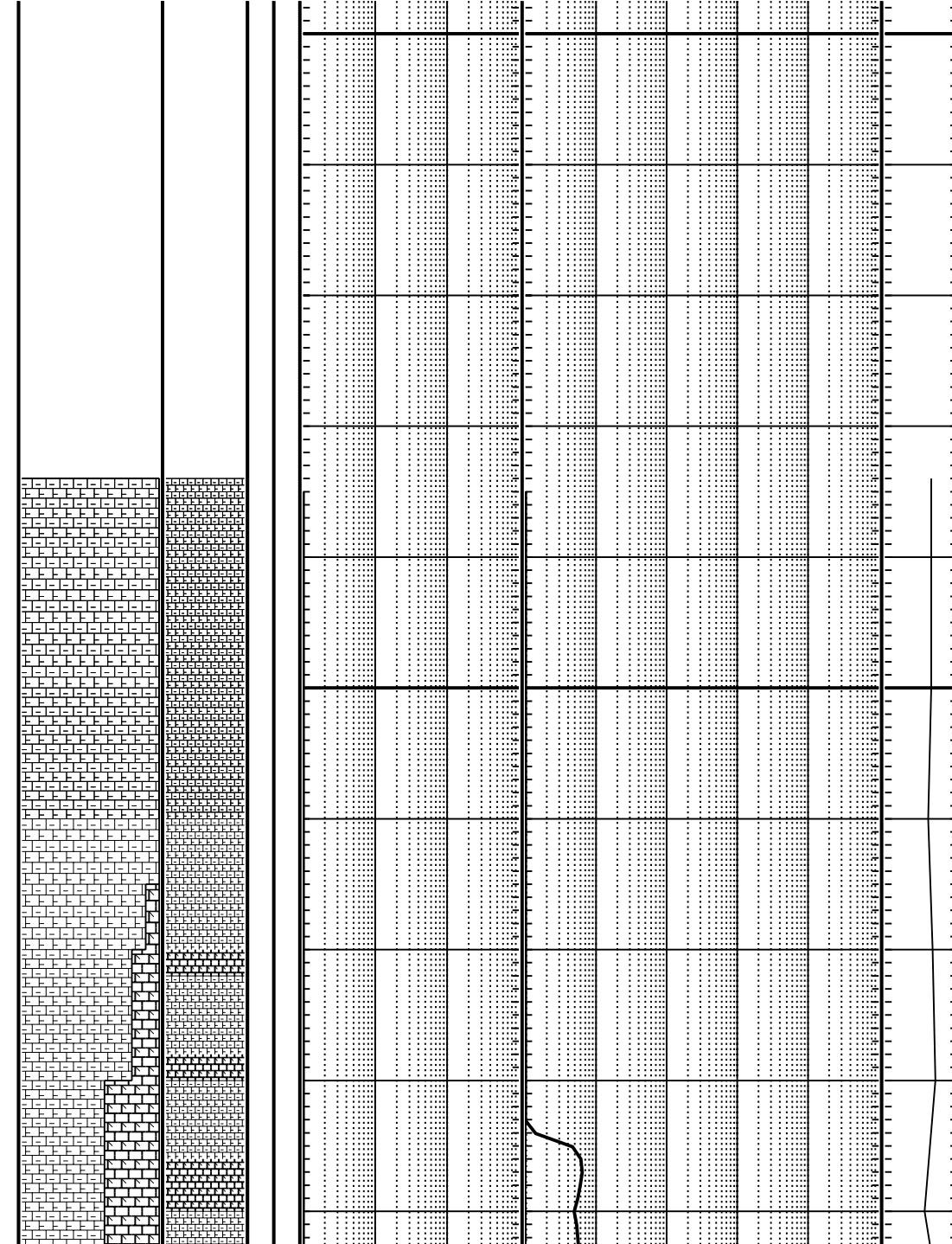
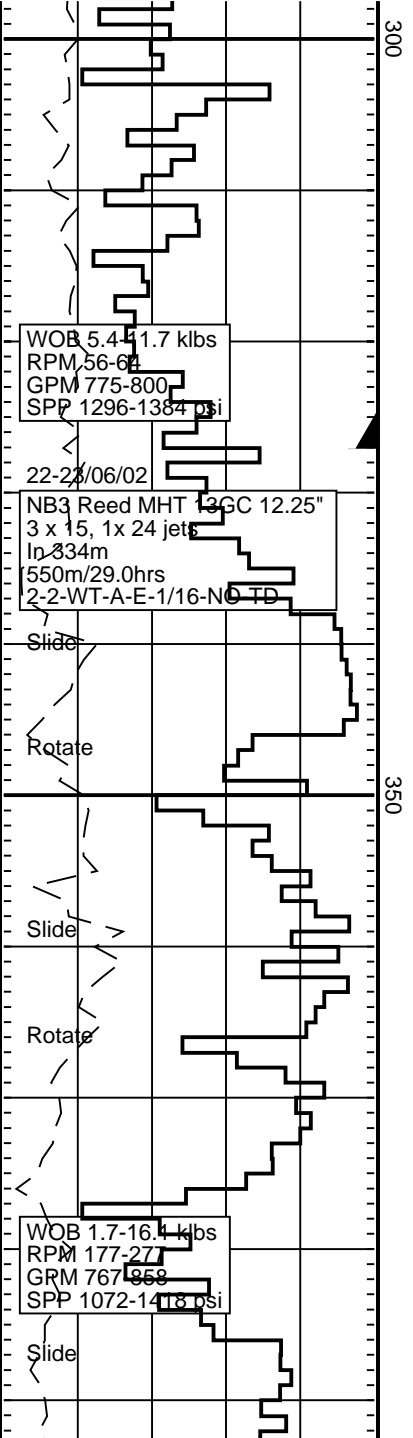
Survey @ 221.64m
 Dev 2.72deg
 Azi 262.28deg
 TVD 221.61m

Drill with PHG sweeps and seawater
 Returns to seabed

Survey @ 250.74m
 Dev 6.36deg
 Azi 248.26deg
 TVD 250.62m

Survey @ 280.05m
 Dev 10.56deg
 Azi 243.19deg
 TVD 279.6m

Drill with PHG sweeps and seawater
 Returns to seabed



Survey @ 314.81m
Dev 11.75deg
Azi 244.06deg
TVD 313.71m

Drill 17.5" hole to 334m
Set 13.375" casing @ 327.1m
Drill ahead 12.25" hole

Survey @ 337.81m
Dev 11.75deg
Azi 239.93deg
TVD 336.23m

FIT @ 327m TVD
MW=1.06sg EMW=1.73sg

KCI/PHPA/Glycol Mud System

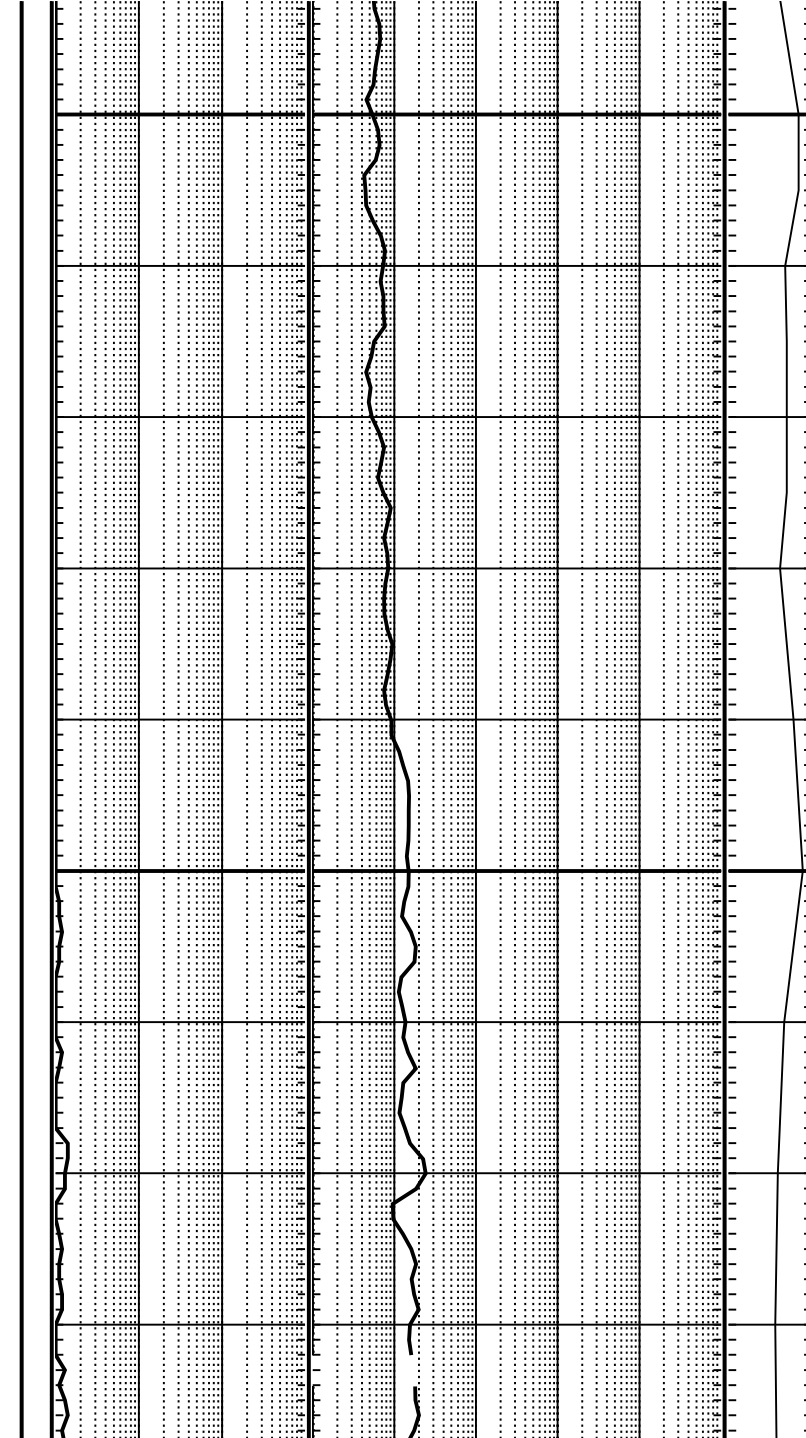
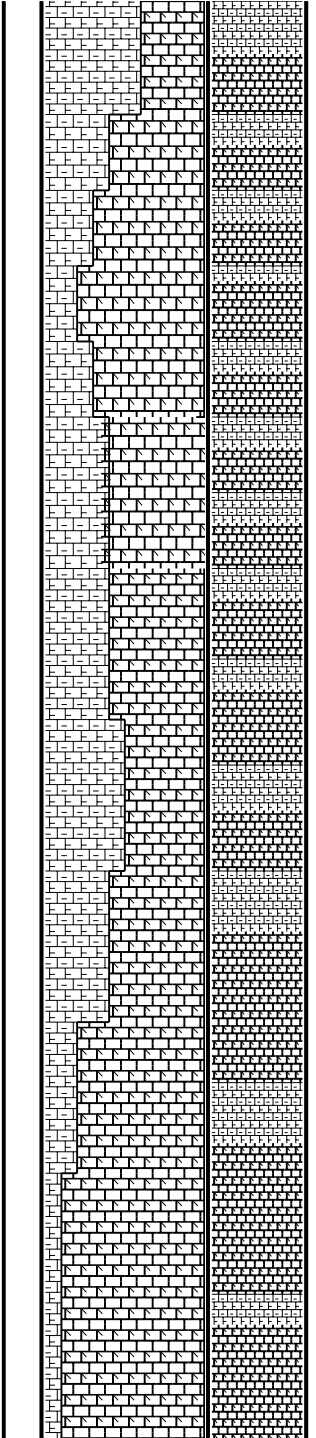
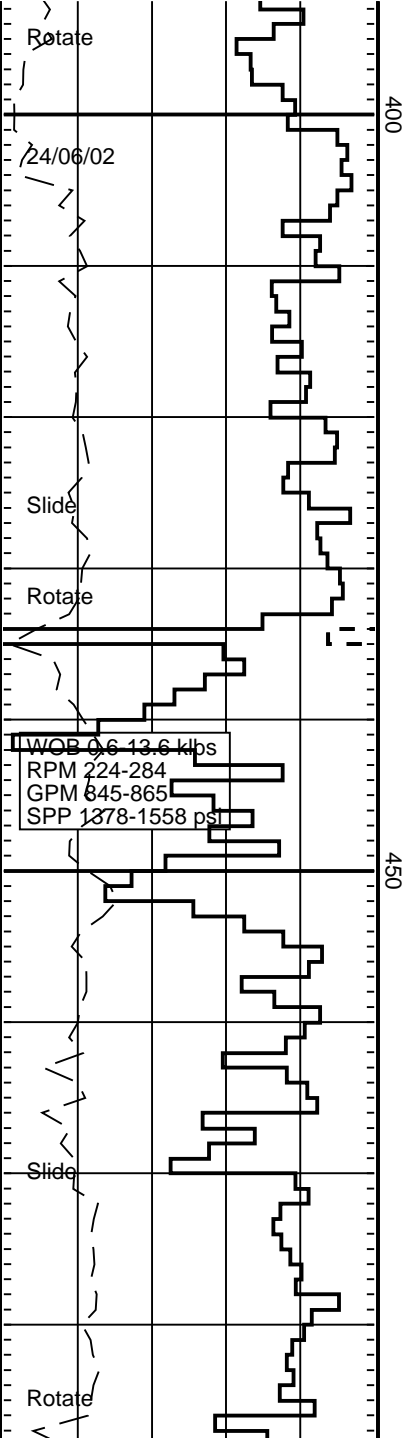
ARGILLACEOUS CALCILUTITE: m
gy-m dk gy,disp-sft,amor,abdt arg
mat,com foss frags,tr Foram,r glauc
pel,tr pyr

Survey @ 355.14m
Dev 12.22deg
Azi 235.45deg
TVD 353.19m

ARGILLACEOUS CALCILUTITE: m lt
gy-m gy,occ v lt gy,disp-sft,occ frm,
amor,sbbiky,abdt arg mat,tr pyr,tr
glauc,tr Foram,tr foss frags

ARGILLACEOUS CALCISILTITE: lt
gy-m lt gy,sft-frm,sbbiky-blky,occ
amor,abdt arg mat,tr glauc,tr Foram,tr
foss frags

Survey @ 382.28m



Dev 13.44deg
Azi 229.93deg
TVD 379.66m

W 1.06sg V55 Pv/Yp 10/20
Gels 8/10 F 5.9 FC 1.0
Sol 2.5 Sd 0 pH 9.0
Cl 42k Ca 1200 KCl 5.5%

ARGILLACEOUS CALCISILTITE: lt gy-m lt gy,occ v lt gy,sft-frm,sbblky-blky,occ amor,com arg mat,mnr foss frags,r Foram,tr glauc pel,tr disseminated pyr

Survey @ 411.6m
Dev 14.45deg
Azi 228.68deg
TVD 408.11m

Survey @ 436.36m
Dev 15.75deg
Azi 229.40deg
TVD 432.02m

ARGILLACEOUS CALCISILTITE: lt gy-m lt gy,occ v lt gy,sft-frm,sbblky-blky,occ amor abdt arg mat,mnr foss frags,r Foram,tr glauc pel,tr disseminated pyr

Survey @ 463.5m
Dev 16.45deg
Azi 229.88deg
TVD 458.09m

ARGILLACEOUS CALCILUTITE: lt gy-m gy,sft-disp,amor-sbblky,abdt arg mat,tr foss frags,tr Foram

Survey @ 490.85m
Dev 20.25deg

WOB 4.0-15.3 klbs
RPM 221-285
GPM 844-867
SPP 1501-1666 psi

Slide

FLC @ 506 (Static)

Rotate

Slide

Rotate

WOB 6.9-18.1 klbs
RPM 220-282
GPM 839-856
SPP 1585-1781 psi

Slide

Rotate

Slide

500

550

Azi 230.66deg
TVD 484.04m

MARL: lt gy-m gy,sft,amor-stky,tr pyr,
tr glauc,tr foss frags,tr Foram

W 1.04sg V50 Pv/Yp 9/18
Gels 7/11 F 5.6 FC 1.0
Sol 5.0 Sd tr pH 8.7
Cl 41k Ca 1200 KCl 5.5%

ARGILLACEOUS CALCISILTITE: lt
gy-m gy,sft,disp,amor,abdt arg mat,tr
glauc,tr pyr,tr foss frags,tr Foram

Survey @ 520.47m
Dev 25.07deg
Azi 231.57deg
TVD 511.37m

CALCARENITE: lt gy,vf-f,fri-mod hd,
rexd calc cmt,calclutite mtx,r foss
frags,tr Foram,tr glauc,tr pyr

Survey @ 545.72m
Dev 30.24deg
Azi 231.75deg
TVD 533.73m

ARGILLACEOUS CALCISILTITE: lt
gy-m gy,sft-frn,amor-sbblky,abdt arg
mat,r glauc,tr pyr,tr foss frags,tr
Foram

MARL: lt gy-m gy,sft,amor-stky,tr
glauc,tr foss frags,tr Foram

Survey @ 574.70m
Dev 36.08deg
Azi 230.71deg
TVD 557.98m

WOB 6.1-49.4 klbs
RPM 220-279
GPM 841-866
SPP 1665-1903 psi

Rotate

Slide

Rotate

WOB 5.3-27.2 klbs
RPM 220-284
GPM 844-872
SPP 1832-1939 psi

Slide

Rotate

Slide

Rotate

009

650

CALCARENITE: lt gy-m lt gy,fri,hd-v
hd,vf-f,mod srt,tr calc cmt,tr pyr,tr
glauc,tr foss frags,tr Foram

ARGILLACEOUS CALCISILTITE: m
gy-m dk gy,frm-hd,amor-sbblky,tr
glauc

Survey @ 601.82m
Dev 41.61deg
Azi 229.84deg
TVD 579.10m

MARL: m lt gy-m gy,sft,amor-sbblky,tr
glauc,tr pyr

Survey @ 632.62m
Dev 46.70deg
Azi 229.27deg
TVD 601.19m

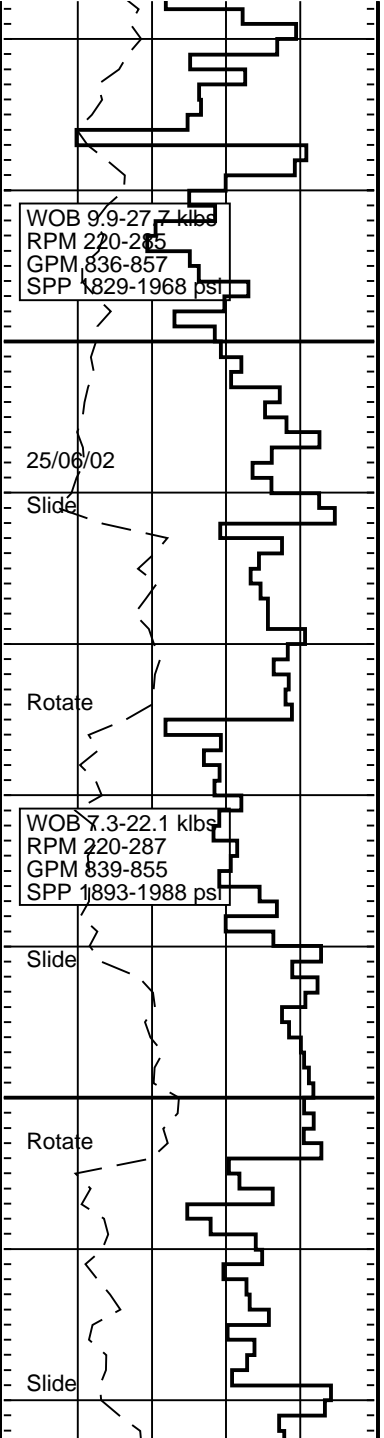
ARGILLACEOUS CALCISILTITE: m
lt gy-m gy,occ m dk gy,sft-frm,amor-
sbblky,tr glauc,tr pyr,tr Foram,tr foss
frags

MARL: v lt gy-m lt gy,sft,amor-sbblky,
tr glauc,tr foss frags

Survey @ 661.71m
Dev 51.65deg
Azi 229.87deg
TVD 620.2m

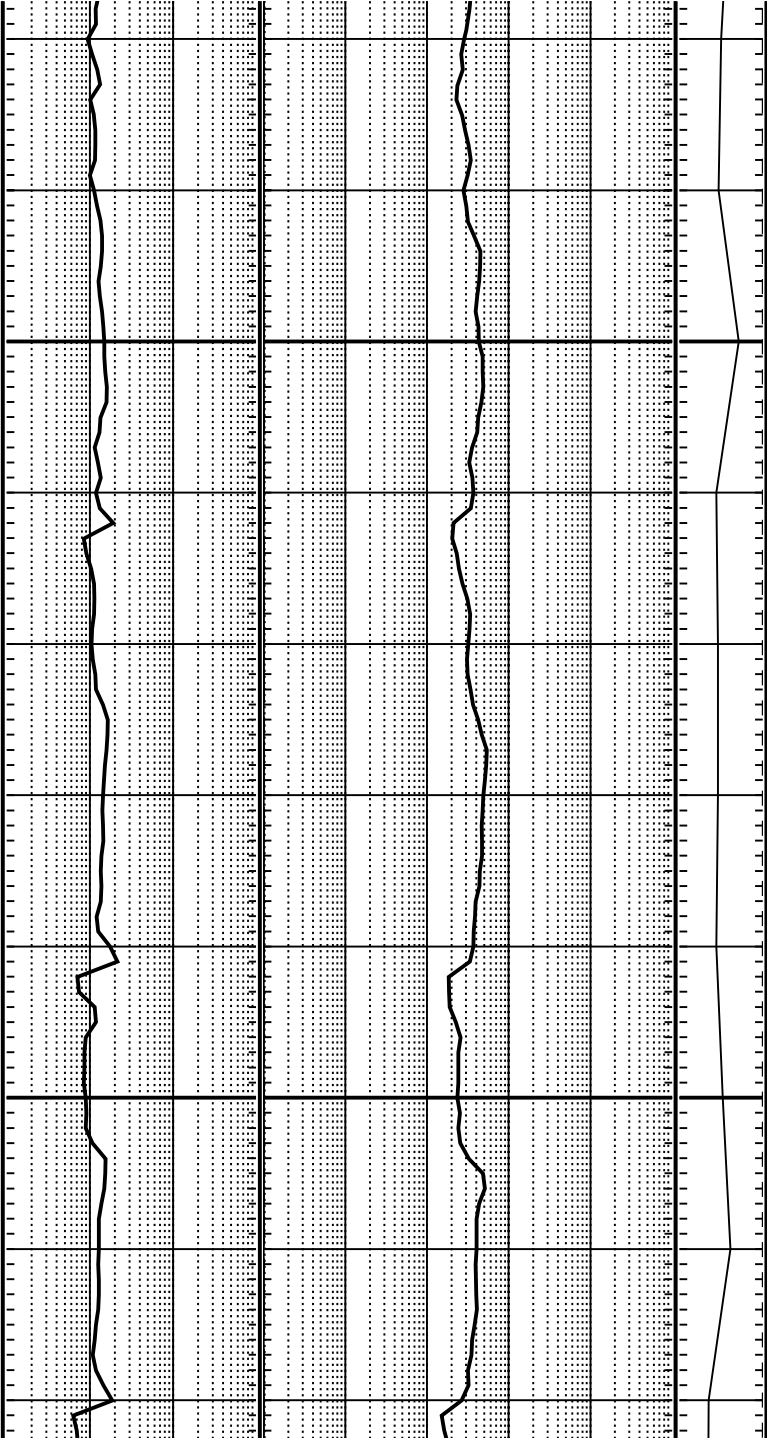
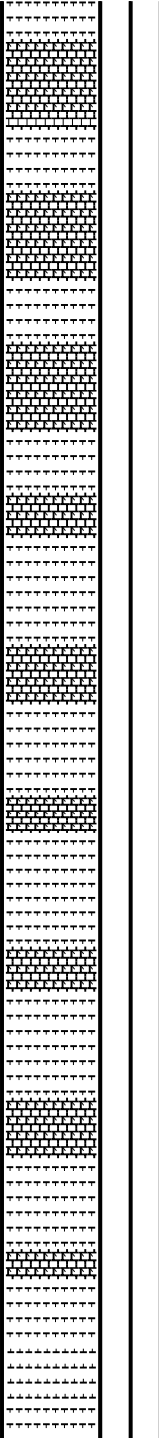
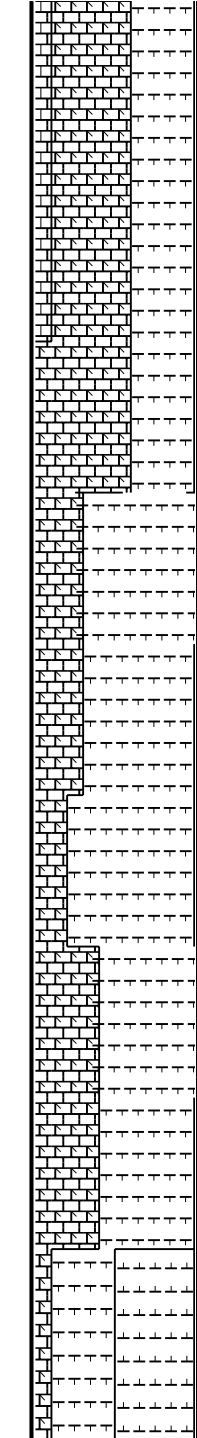
CALCARENITE: v lt gy-lt gy,fri,hd-v
hd,vf-f,mod-wl srt,r calc cmt,tr calc
mtx,tr glauc,tr foss frags

Survey @ 683.17m
Dev 55.94deg
Azi 230.13deg



700

750



TVD 632.87m

CALCISILTITE: m lt gy-m dk gy,sft, frm-hd,amor-sbbkly,tr glauc,tr foss frags

MARL: lt gy-m dk gy,sft,amor,tr glauc, tr foss frags

Survey @ 691.25m
Dev 56.22deg
Azi 230.56deg
TVD 637.58m

CALCISILTITE: m lt gy-m dk gy,sft, frm-hd,amor-sbbkly,tr glauc,tr foss frags

W 1.08sg V54 Pv/Yp 12/29
Gels 11/14 F 5.4 FC 1.0
Sol 5.0 Sd tr pH 8.7
Cl 35k Ca 1180 KCl 5.0%

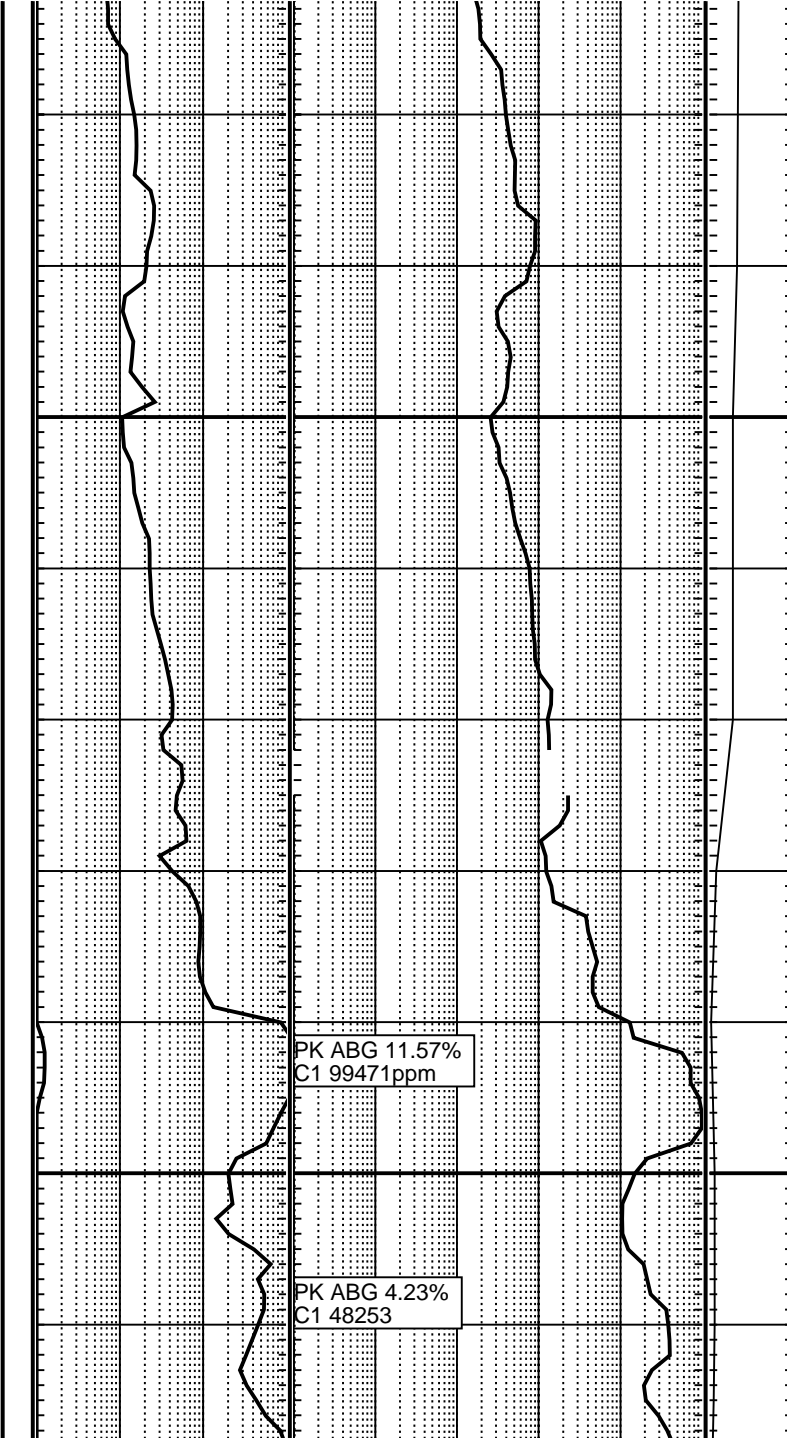
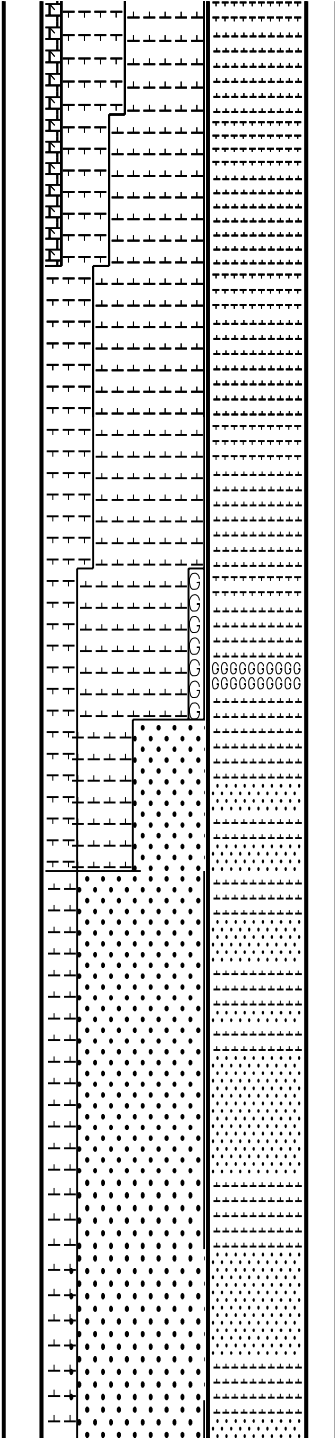
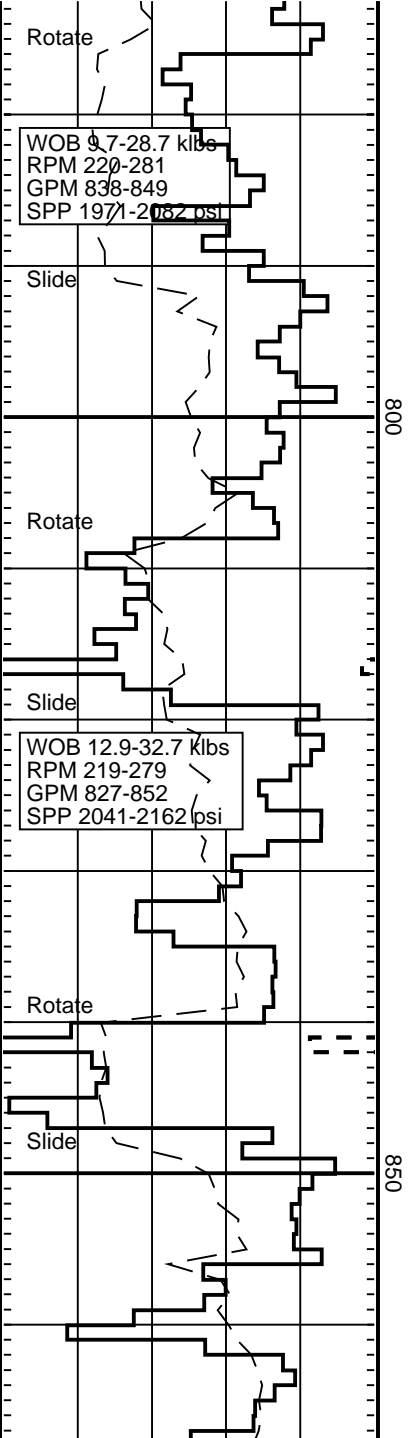
Survey @ 720.54m
Dev 59.58deg
Azi 230.67deg
TVD 652.95m

MARL: lt gy-m dk gy,pred m lt gy,sft, amor-blky,stky i/p,r glauc pel,tr foss frags,tr Foram,g/t CALCAREOUS CLAYSTONE

Survey @ 749.69m
Dev 64.19deg
Azi 230.16deg
TVD 666.65m

CALCISILTITE: m lt gy-m dk gy,sft-frm,amor-sbbkly,tr glauc,tr foss frags, tr Foram

CALCAREOUS CLAYSTONE: dsky yel,m lt gy-m gy,sft,amor-sbbkly,tr glauc,tr Foram,tr foss frags



Survey @ 778.45m
Dev 66.86deg
Azi 230.06deg
TVD 678.59m

MARL: lt gy-m dk gy, pred m lt gy, sft, amor-blky, stky i/p, r glauc pel, tr foss frags, tr Foram, g/t CALCAREOUS CLAYSTONE

CALCAREOUS CLAYSTONE: dsky yel, lt olv gy, lt gy-m gy, sft-frm, amor-sbbkly, tr glauc, tr Foram, tr foss frags

Survey @ 807.00m
Dev 71.93deg
Azi 230.46deg
TVD 688.64m

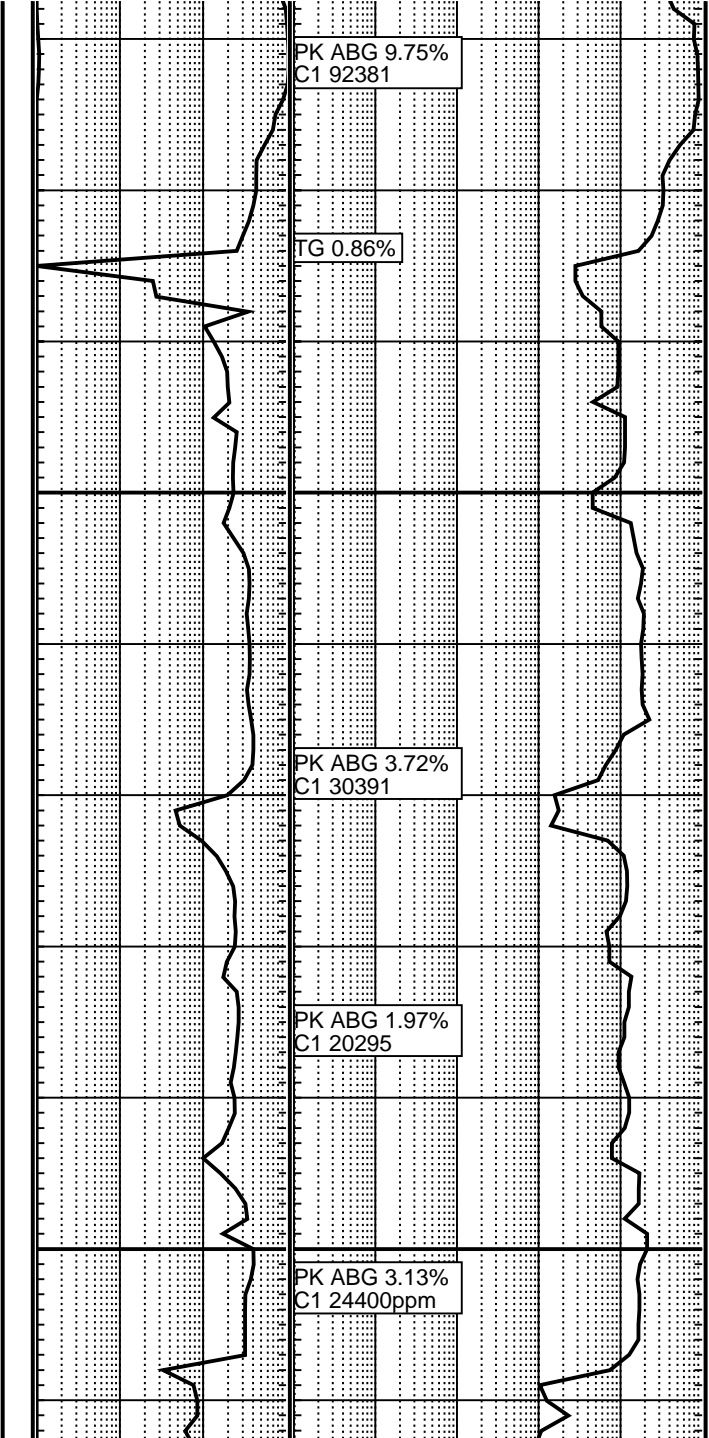
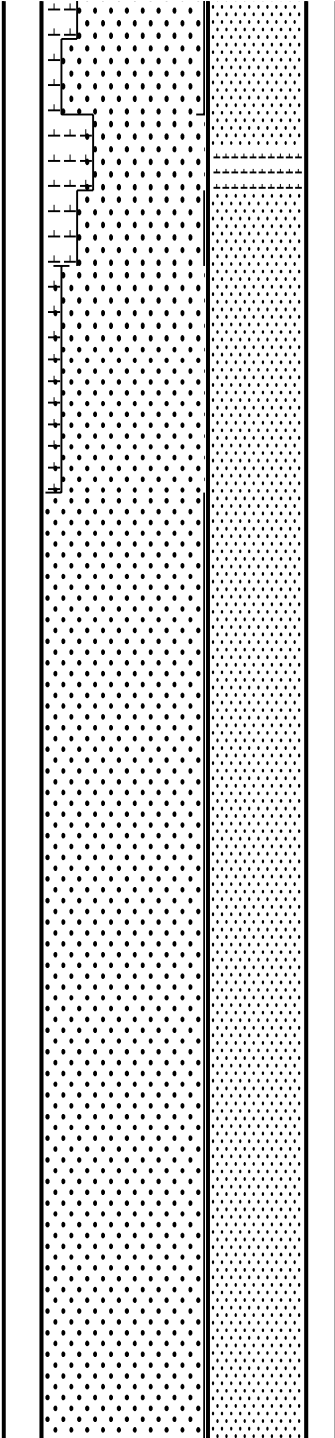
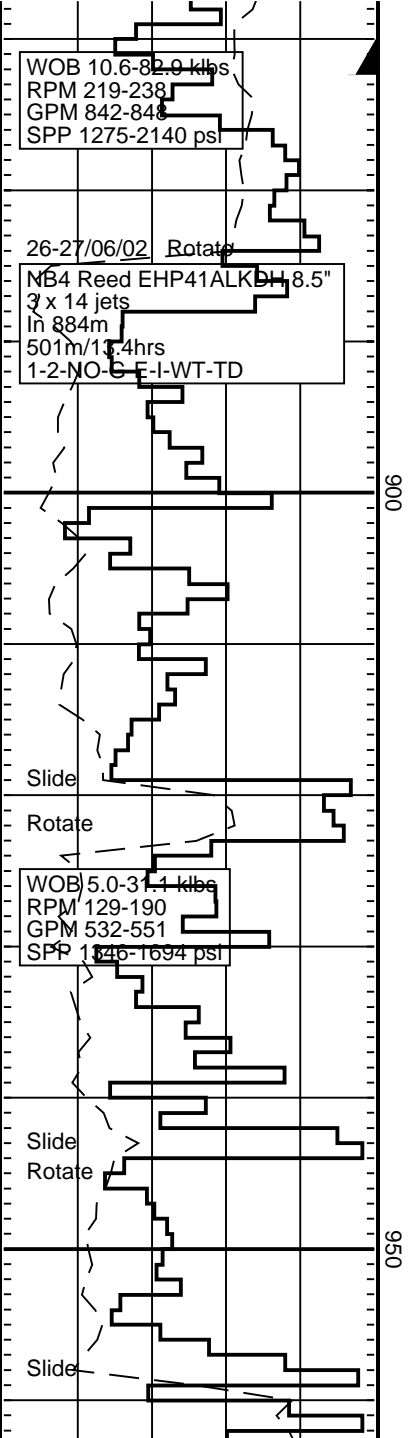
GLAUCONITIC SANDSTONE: m-dk gn, f-m glauc, sbrndd-sbang

SILTY SANDSTONE: mod yelsh brn-dk yelsh brn, trnsl qtz grs, vf-f, lse, fri, occ frm aggs, sbang, sbspher, mod wl srt, abdt silt, r glauc pel, tr Foram, tr foss frags, fr-gd inf por, n fluor, g/t SILTSTONE i/p

Survey @ 836.59m
Dev 78.14deg
Azi 230.03deg
TVD 696.27m

CALCAREOUS CLAYSTONE: dsky yel, lt olv gy, lt gy-m gy, sft-frm, amor-sbbkly, tr glauc, tr Foram, tr foss frags

Survey @ 862.88m
Dev 85.19deg
Azi 229.80deg
TVD 700.09m



Drill 12.25" hole to 884m
Set 9.625" casing @ 872.36m
Drill ahead 8.5" hole

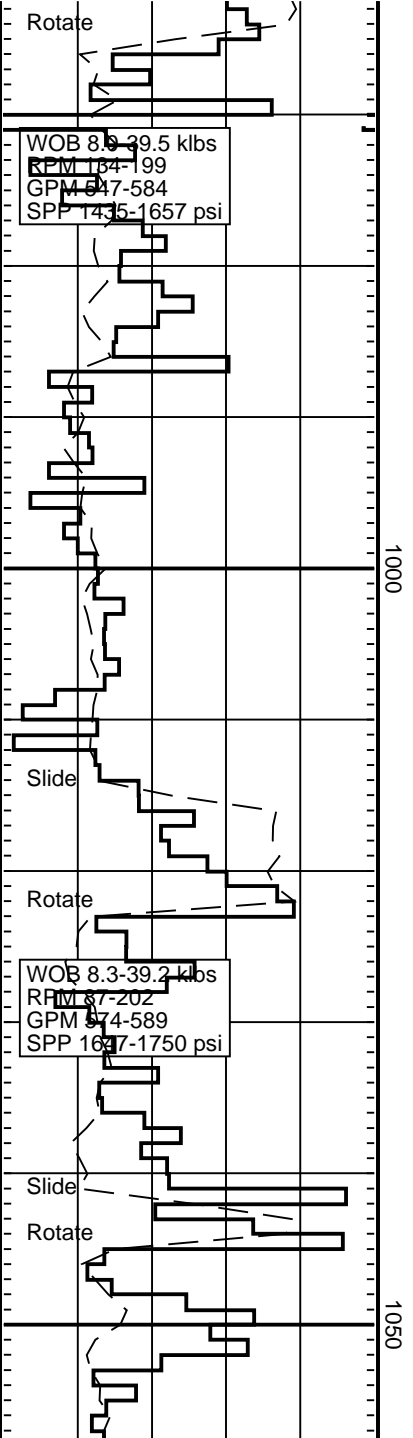
FIT @ 887mMD 700.7mTVD
MW=1.07sg EMW=1.40sg

Survey @ 890.03m
Dev 90.24deg
Azi 230.02deg
TVD 701.39m

SILTY SANDSTONE: mod yelsh brn-
dk yelsh brn, trnsl qtz grs, vf-f, lse, fri,
occ frm aggs, sbang, sbspher, mod wl
srt, 20-30% silt, r mic flks, r glauc pel, tr
sid, tr Foram, tr foss frags, fr-gd inf por,
n fluor, g/t SILTSTONE i/p

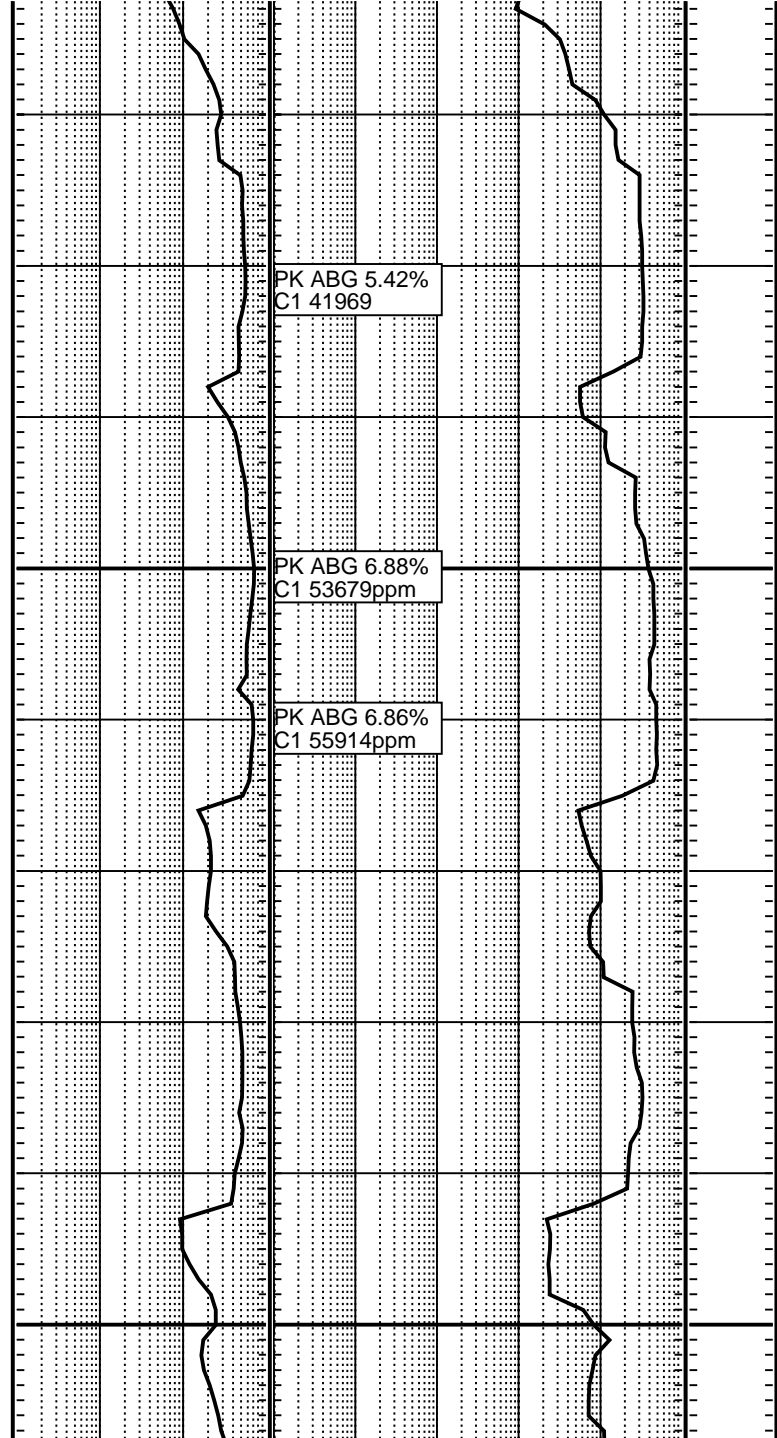
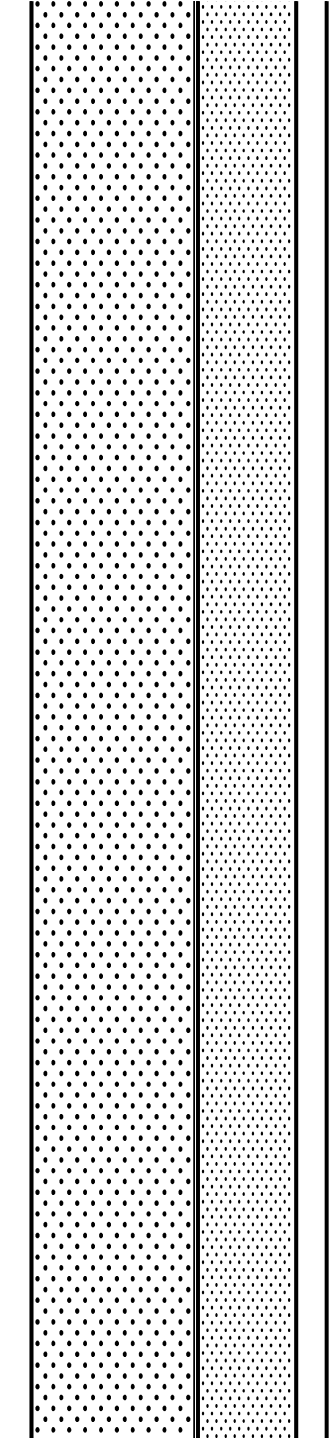
Survey @ 946.77m
Dev 90.86deg
Azi 230.25deg
TVD 700.60m

SILTY SANDSTONE: mod yelsh brn-
dk yelsh brn, dk yel or, clr-trnsl qtz grs,
vf-f, lse, fri, sft- frm aggs, sbang-sbrndd,
sbspher, mod wl srt, 20-25% silt, r mic
flks, r glauc pel, tr sid, tr pyr cmt, fr-gd
inf por, n fluor, g/t SILTSTONE i/p



WOB 8.9-39.5 klbs
 RPM 184-199
 GPM 547-584
 SPP 1435-1657 psi

WOB 8.3-39.2 klbs
 RPM 87-202
 GPM 574-589
 SPP 1627-1750 psi



PK ABG 5.42%
 C1 41969

PK ABG 6.88%
 C1 53679ppm

PK ABG 6.86%
 C1 55914ppm

Survey @ 975.03m
 Dev 89.05deg
 Azi 229.75deg
 TVD 700.51m

SILTY SANDSTONE: mod yelsh brn-dk yelsh brn,dk yel or,clr-trnsl qtz grs,vf-f,pred vf,lse,fri,sft-frm aggs,occ hd aggs,sbang-sbrnrd,sbspher,mod wl srt,15-25% silt,r mic flks,tr glauc pel,tr pyr,<1% Foram,fr-gd inf por,n fluor,g/t SILTSTONE i/p

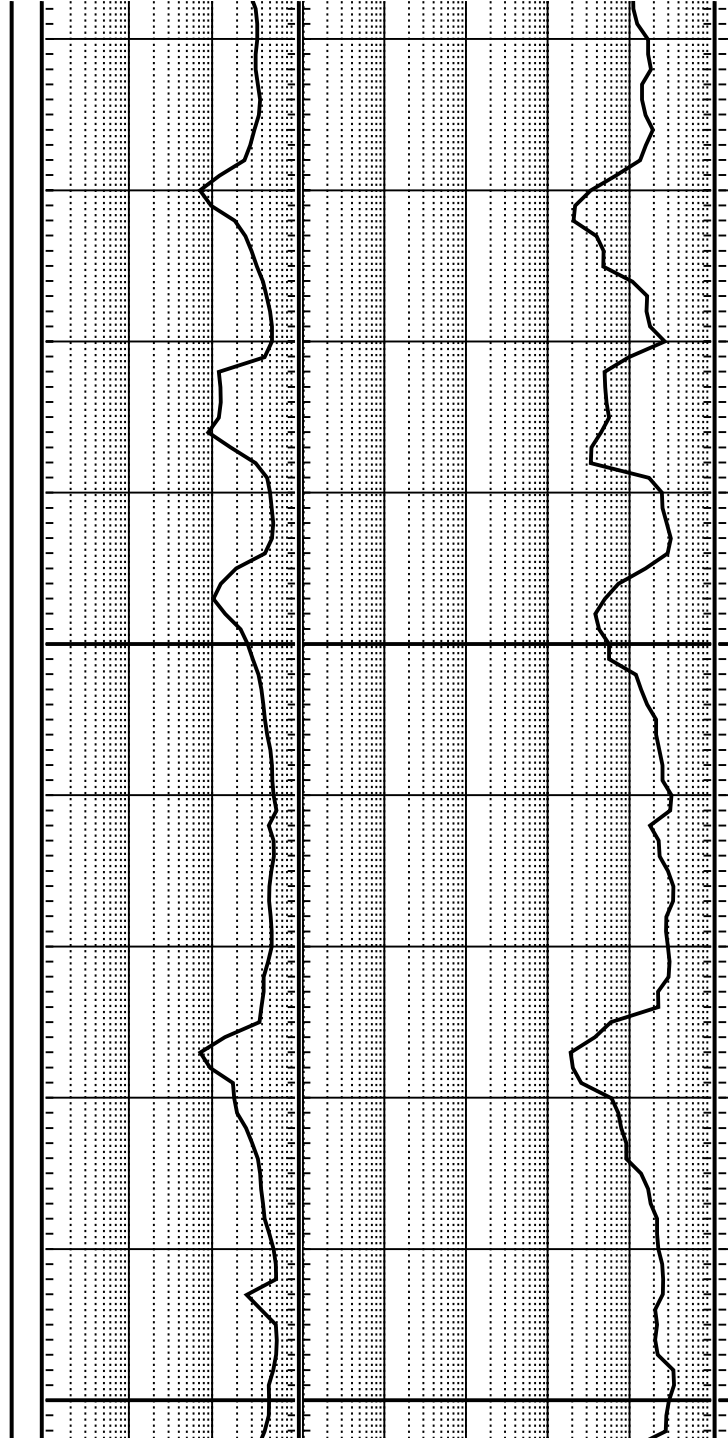
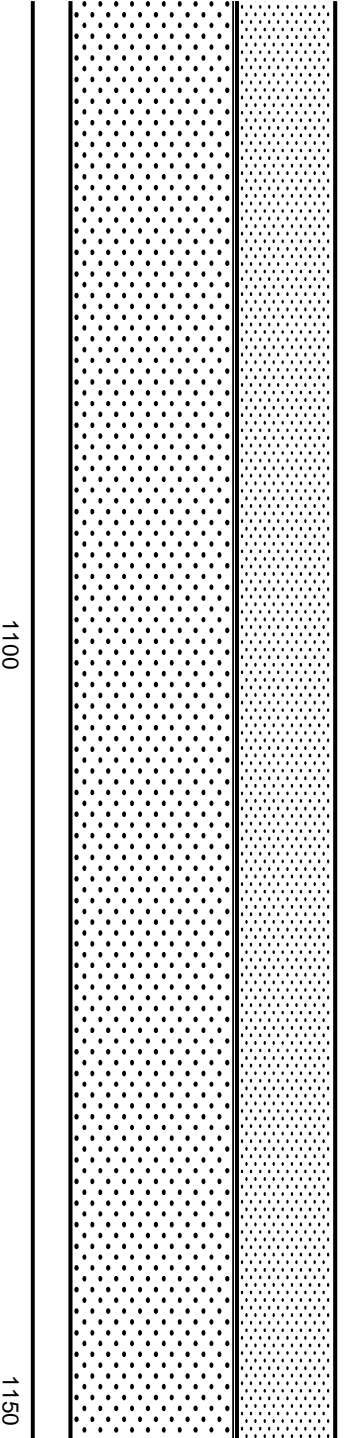
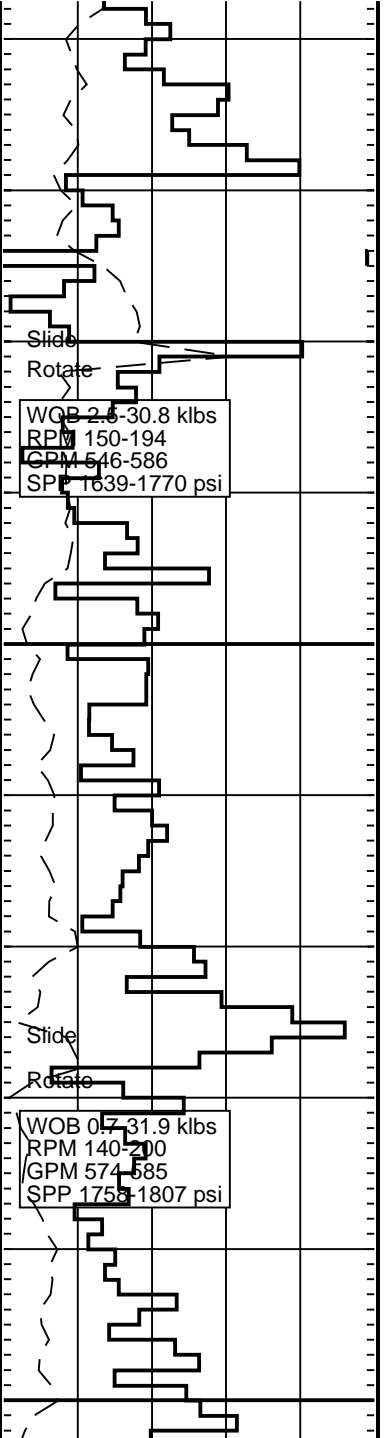
Survey @ 1002.56m
 Dev 90.63deg
 Azi 230.40deg
 TVD 700.48m

SILTY SANDSTONE: mod yelsh brn-dk yelsh brn,dk yel or,clr-trnsl qtz grs,vf-f,pred vf,lse,fri,sft-frm aggs,occ hd aggs,sbang-sbrnrd,sbspher,mod wl srt,10-20% silt,min mic flks,r sid cmt,tr pyr,0-tr Foram,fr-gd inf por,n fluor,g/t SANDSTONE i/p

W 1.09sg V69 Pv/Yp 11/34
 Gels 18/22 F 5.2 FC 1.0
 Sol 6.0 Sd 0.25 pH 9.5
 Cl 72k Ca 320 KCl 3.0%

Survey @ 1030.12m
 Dev 88.91deg
 Azi 232.09deg
 TVD 700.59m

Survey @ 1056.96m
 Dev 87.97deg
 Azi 231.93deg
 TVD 701.32m



SILTY SANDSTONE: mod olv brn-dk yelsh brn,clr-trnsl qtz grs,vf-f,pred vf, lse,fri,sft frm aggs,com hd aggs, sbang-sbrnrd,sbspher,mod wl srt,15-20% silt,com sid cmt,r mic flks,tr pyr,0-tr Foram,fr-gd inf por,n fluor,g/t SANDSTONE i/p

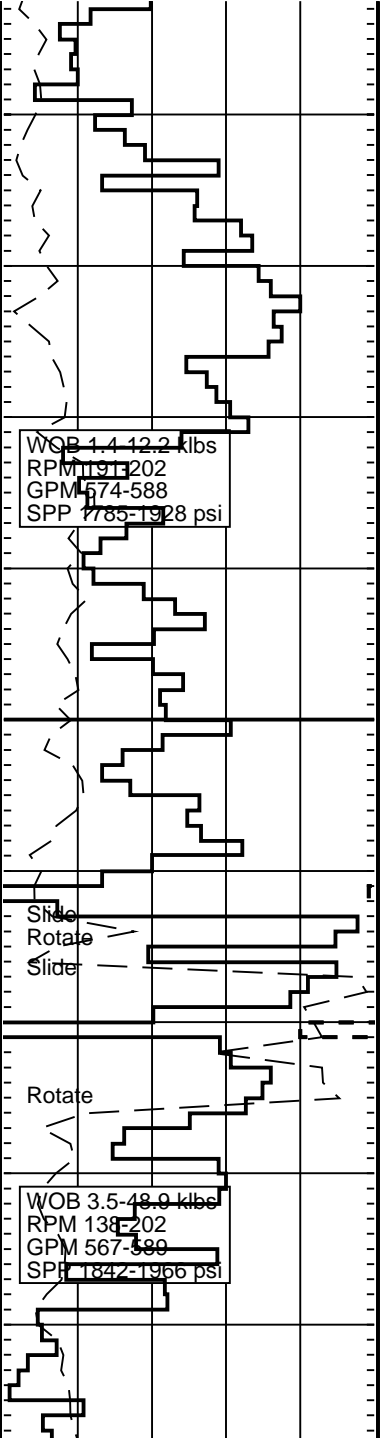
Survey @ 1068.33m
Dev 88.51deg
Azi 232.09deg
TVD 701.67m

Survey @ 1112.97m
Dev 90.60deg
Azi 232.56deg
TVD 701.77m

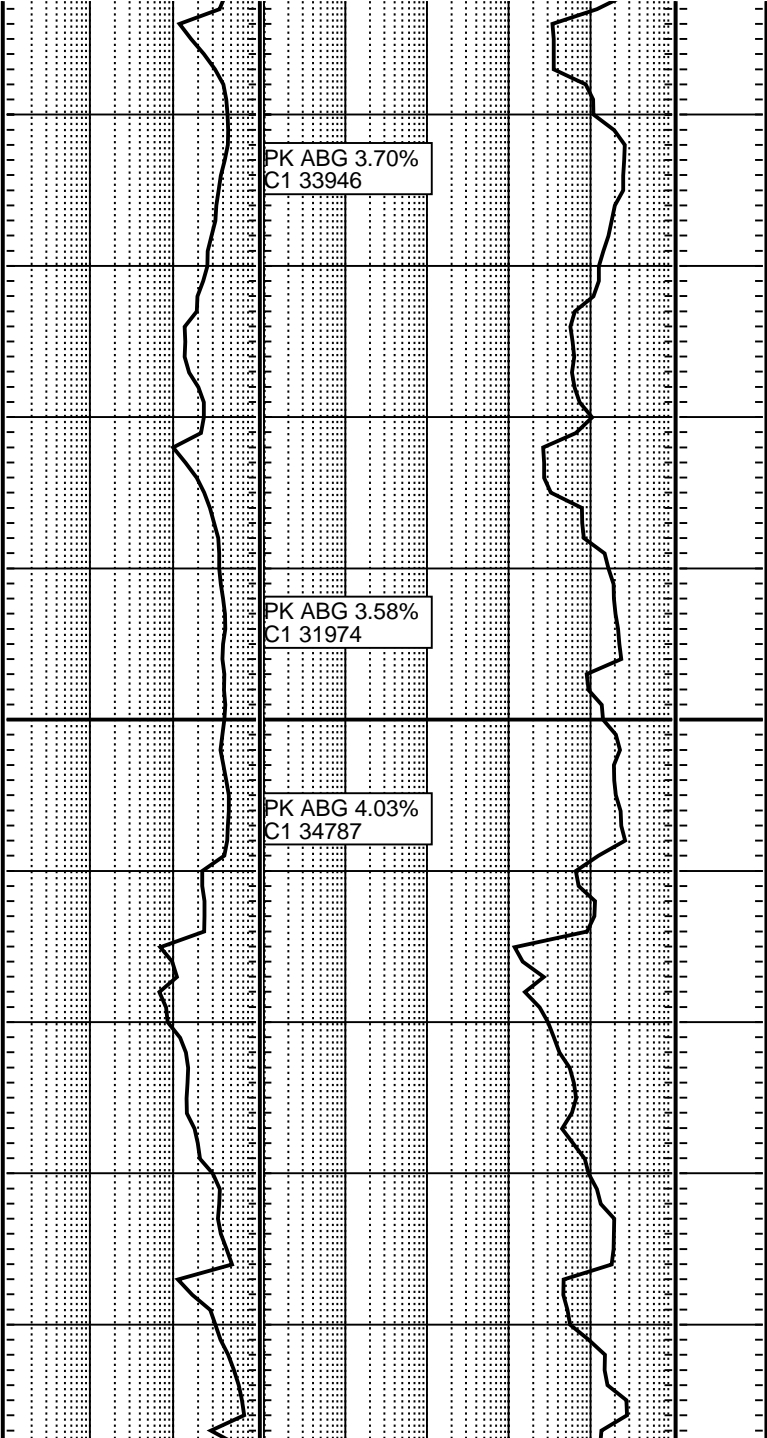
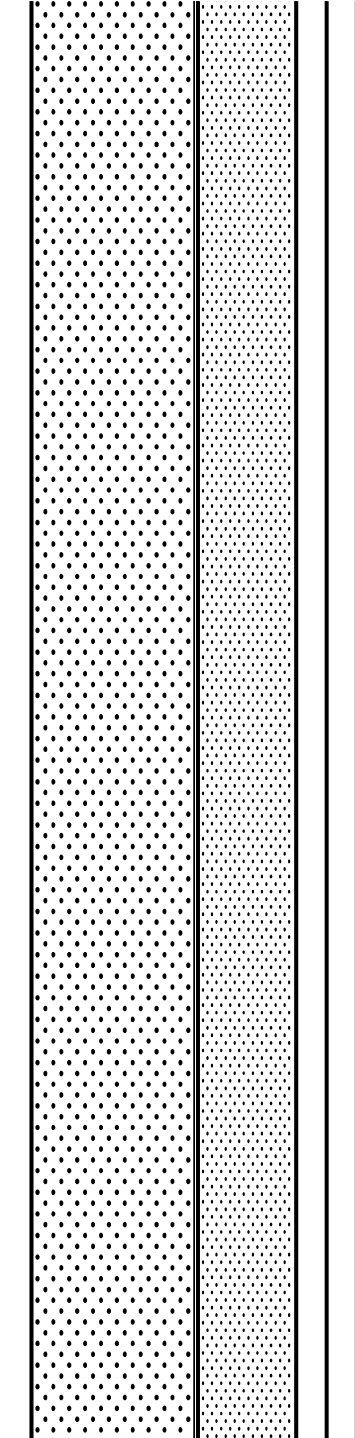
SILTY SANDSTONE: mod olv brn-dk yelsh brn,clr-trnsl qtz grs,vf-f,pred vf, lse,fri-frm aggs,com hd aggs,sbang-sbrnrd,sbspher,mod wl srt,10-20% silt,com sid cmt,r mic flks,r sft glauc,tr glauc pel,tr pyr,tr lith frags,fr-gd inf por,n fluor,g/t SANDSTONE i/p

Survey @ 1140.50m
Dev 89.68deg
Azi 233.10deg
TVD 701.71m

SILTY SANDSTONE: dk yelsh brn-dsky yelsh brn,clr-trnsl qtz grs,vf-f,lse,



1200



fri,mod hd aggs,sbang-sbrnnd,sbsph, wl srt,15-20% silt,tr glauc pel,tr mic flks,fr-gd inf por,n fluor

Survey @ 1170.64m
Dev 90.00deg
Azi 233.29deg
TVD 701.79m

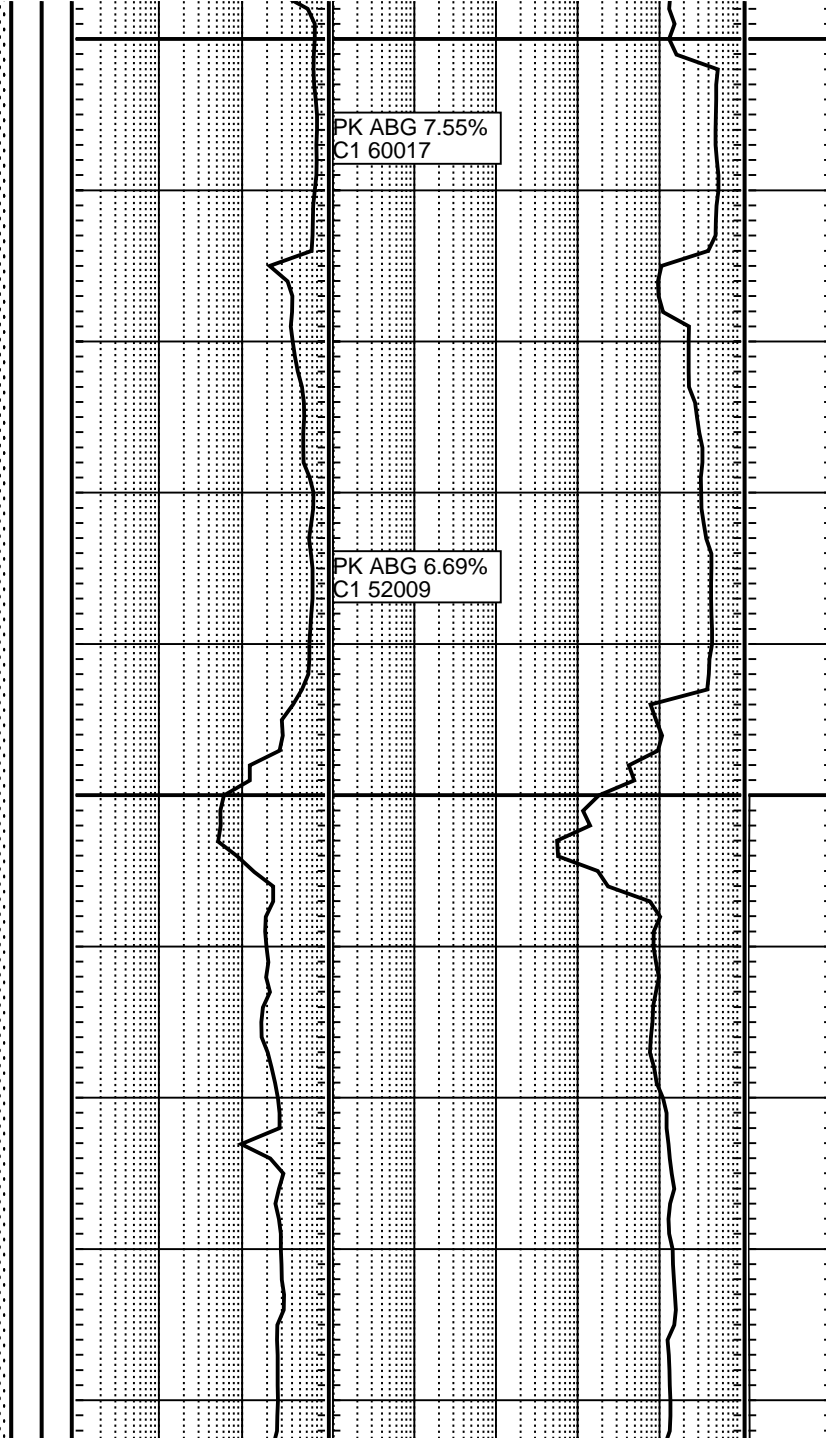
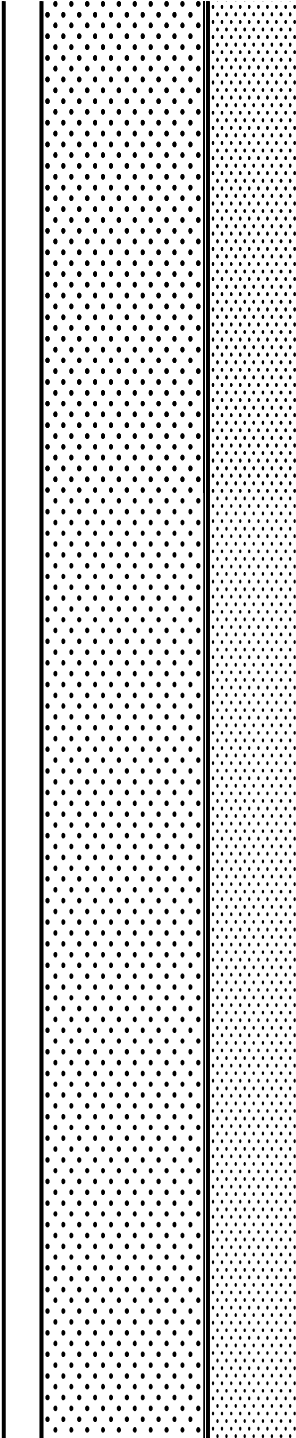
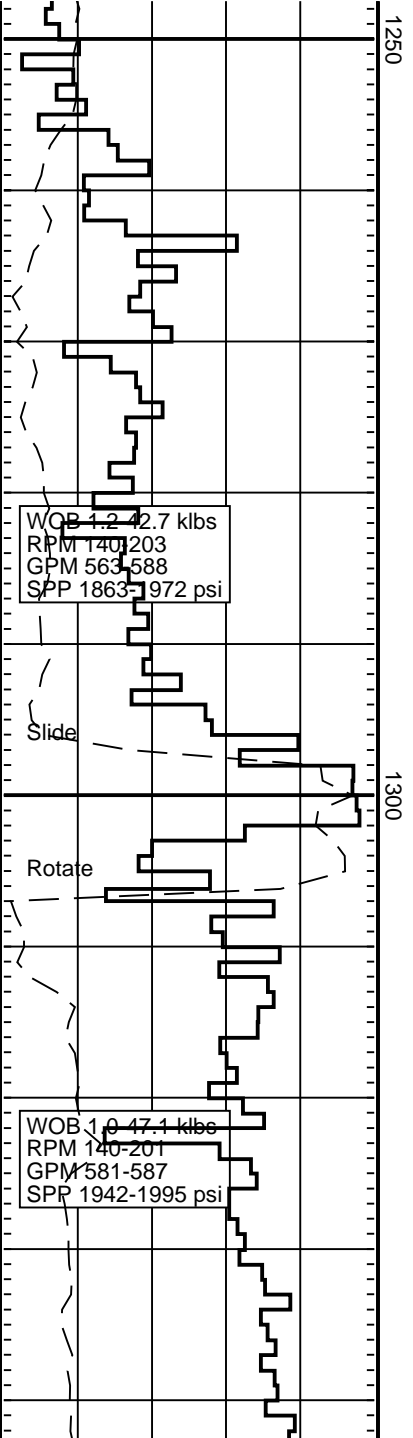
SILTY SANDSTONE: dk yelsh brn-dsky yelsh brn,clr-trnsl qtz grs,vf-f,lse, fri-mod hd aggs,sbang-sbrnnd,sbsph, wl srt,15-20% silt,tr glauc pel,tr mic flks,fr-gd inf por,n fluor

Survey @ 1198.27m
Dev 90.70deg
Azi 233.79deg
TVD 701.62m

SILTY SANDSTONE: brnsh blk-olv blk,occ dk yelsh brn-dsky yelsh brn, clr-trnsl qtz grs,vf-f,pred vf,lse,pred fri-v hd aggs,sbang-sbrnnd,sbsph, wl srt,15-20% silt,tr glauc,tr Foram,fr-gd inf por,n fluor

Survey @ 1224.64m
Dev 89.59deg
Azi 231.69deg
TVD 701.56m

SILTY SANDSTONE: brnsh blk-olv blk,occ dk yelsh brn-dsky yelsh brn, clr-trnsl qtz grs,vf-f,pred vf,pred lse, fri-hd aggs,sbang-sbrnnd,sbsph, wl srt, 15-20% silt, tr glauc, tr mic flks, fr-gd inf por, n fluor



Survey @ 1252.22m
Dev 89.90deg
Azi 231.72deg
TVD 701.68m

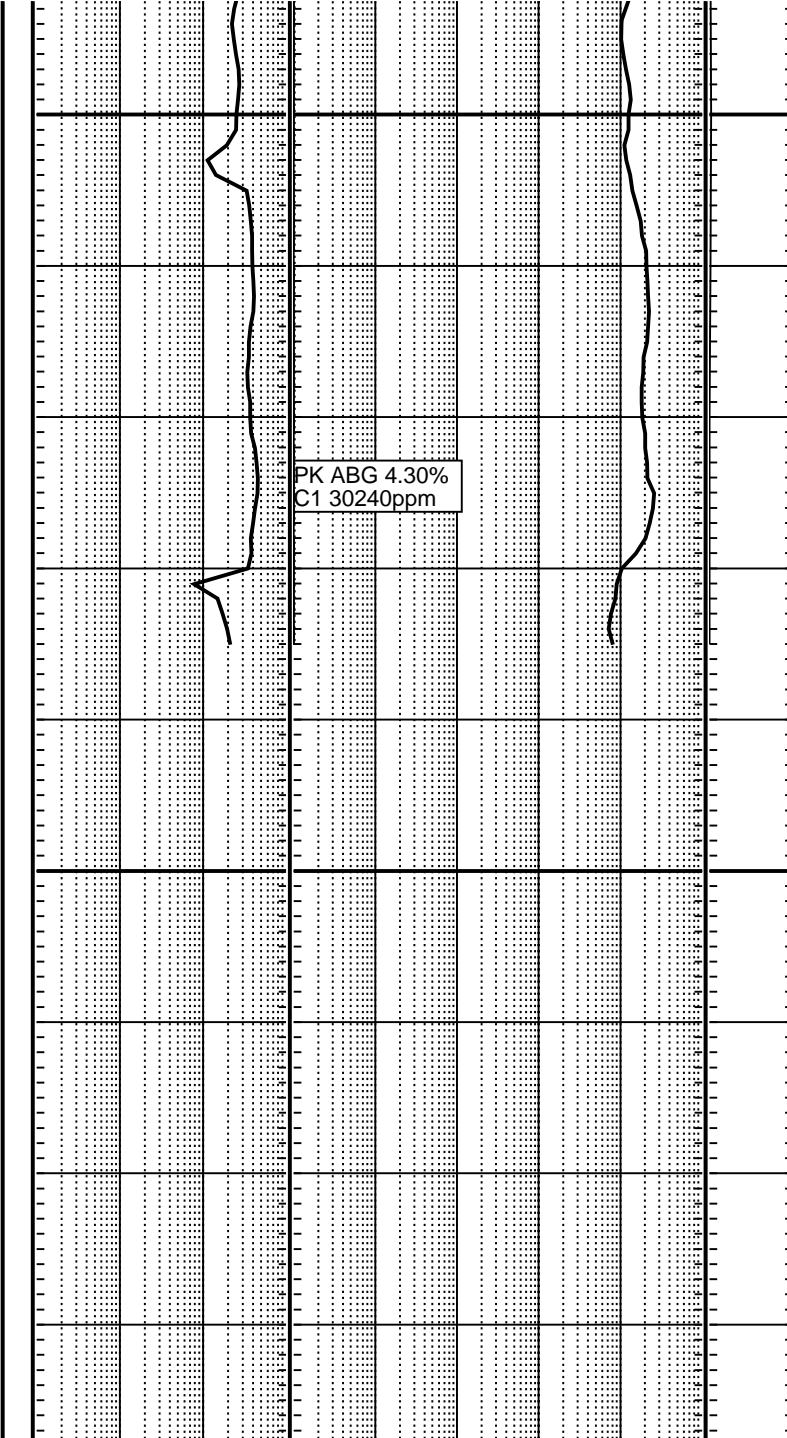
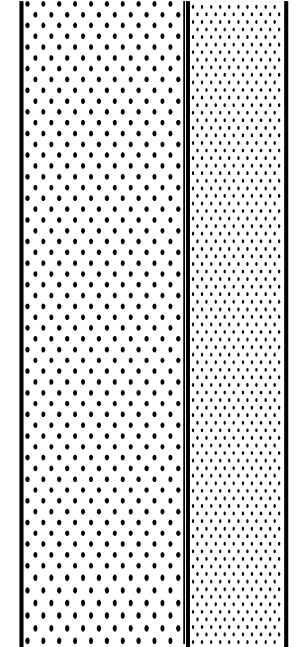
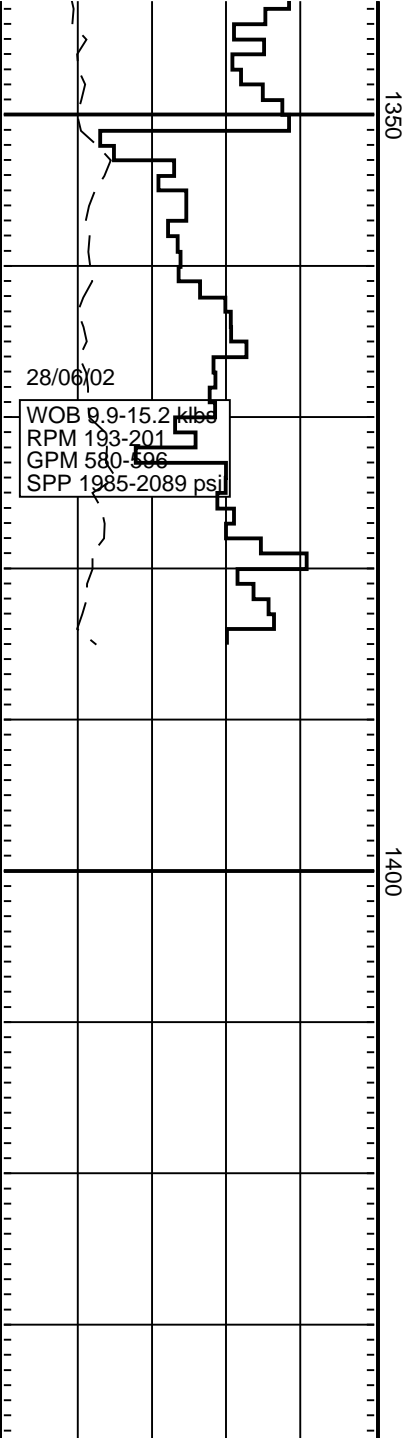
SILTY SANDSTONE: dk yelsh brn-dsky yelsh brn,clr-trnsl qtz grs,vf-f, pred vf,pred lse,fri-v hd aggs,sbang-sbrnrd,sbspher,wl srt,15-20% silt,tr mic flks,tr glauc pel,fr-gd inf por,n fluor

Survey @ 1281.21m
Dev 90.98deg
Azi 232.67deg
TVD 701.46m

Survey @ 1310.13m
Dev 89.67deg
Azi 232.72deg
TVD 701.29m

SANDSTONE: dsky brn-dsky yelsh brn,clr-trnsl qtz grs,vf-f,pred vf,pred lse,r hd aggs,sbang-sbrnrd,sbspher,wl srt,10-15% silt,5-10% arg mat,r mic flks,tr glauc,tr lith frags,fr-gd inf por,n fluor,g/t ARGILLACEOUS SANDSTONE i/p

Survey @ 1339.08m
Dev 89.82deg
Azi 233.39deg



TVD 701.42m

SANDSTONE: dsky brn-dsky yelsh
brn,clr-trnsl qtz grs,vf-f,pred vf,pred
lse,r hd aggs,sbang-sbrnnd,sbspher,
wl srt,10-15% arg mat,10-15% silt,r
mic flks,tr glauc,tr lith frags,fr-gd inf
por,n fluor,g/t ARGILLACEOUS
SANDSTONE i/p

Survey @ 1368.17m
Dev 90.46deg
Azi 234.02deg
TVD 701.35m

SANDSTONE: dsky brn-dsky yelsh
brn,olv gy,clr-trnsl qtz grs,vf-f,pred vf,
lse,occ mod hd aggs,sbang-sbrnnd,
sbspher,mod wl srt,15-20% arg mat,5-
10% silt,r mic flks,tr glauc,tr lith frags,
fr-gd inf por,n fluor,g/t
ARGILLACEOUS SANDSTONE i/p

W 1.12sg V60 Pv/Yp 11/32
Gels 15/18 F 4.8 FC 1.0
Sol 8.0 Sd 0.25 pH 9.5
Cl 72k Ca 400 KCl 3.0%

Reached 1385m TD @ 01:00hrs
28 June 2002

<p>WOB (klb)</p> <p>ROP (m/hr)</p> <p>ROP(Backup) (m/hr)</p>		TOTAL GAS	CHROMATOGRAPH	CALC	REMARKS
0	0	0.01	Methane	Calcite	
10	20	0.1	Ethane	50	
20	40	1	Propane	25	
30	60	10	Iso-Butane	75	
40	80	1	Normal-Butane	50	
50	100	10	Iso-Pentane	75	
			Normal-Pentane (ppm)	Dolomite	
				25	
				50	
				75	



OMV Australia





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INTEQ LOG SUITE

Formation Evaluation
Drilling Data Plot

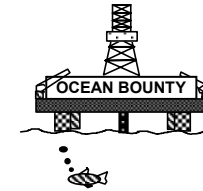
Pressure Data Plot
Pressure Summary Plot

ABBREVIATIONS

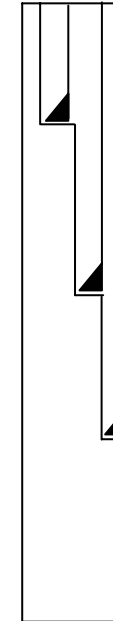
NB	New Bit	MD	Measured Depth
RR	Rerun Bit	GPM	Gallons per Min
CB	Core Bit	PP	Pump Pressure
WOB	Weight on Bit	MW	Mud Weight sg
RPM	Revs per Minute	FV	Funnel Viscosity
FLC	Flow Check	F	Filtrate - API
CR	Circulate Returns	FC	Filter Cake
PR	Poor Returns	PV	Plastic Viscosity
NR	No Returns	YP	Yield Point
BG	Background Gas	Sol	Solids %
WTG	Wiper Trip Gas	Sd	Sand %
TG	Trip Gas	Cl	Chlorides
POG	Pumps Off Gas	RM	Mud Resistivity
CG	Connection Gas	RMF	Filtrate Resistivity
SG	Swab Gas	TVD	True Vertical Depth

LITHOLOGY SYMBOLS

Calcarenite Ca	Calcsiltite Cs	Calcilutite Cl	Glaucinite Glauc
Dolomite Dol	Marl Mrl	Conglomerate Cgl	Pyrite Pyr
Sandstone Sst	Siltstone Sltst	Claystone Clst	Radiolaria
Mica Mic	Cement Cmt	Coal C	Calc Claystone CalcClst



Permanent Datum - LAT
Sealevel 25mRT
52.5m (LAT)



Seabed @ 77.5m
Drilling Fluid: Seawater / Hi-vis sweeps
36" hole to 111.5m
30" x 20" csg set @ 111.5m
Drilling Fluid: Seawater / Hi-vis sweeps
17.5" hole to 334m
13.375" csg set @ 327.1m
Drilling Fluid: KCl / PHPA / Glycol
12.25" hole to 884m
9.625" csg set @ 872.3m
Drilling Fluid: FLO - PRO
8.5" hole to 1385m TD

Company OMV Australia Pty Ltd

Well Patricia-2

Permit VIC/L21

Region Gippsland Sub Basin

Designation Field Development

Coordinates 038° 01' 39.95" S Lat
148° 26' 57.78" E Long

Ref Elevation RT 25 m

Total Depth 1385 mRT

Contractor Diamond Offshore General Co.

Rig MODU Ocean Bounty

Type Semi-Submersible

LOG INTERVAL

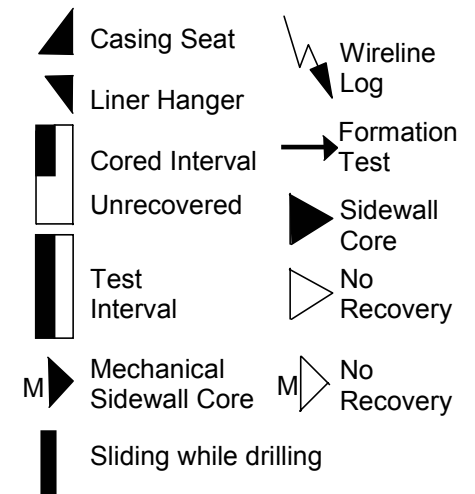
Depth 77.5 mRT to 1385 mRT

Date 20 – 28 June 2002

Scale 1:500

Data Engineers R. Tadiar, J. Wilson, R. Tena

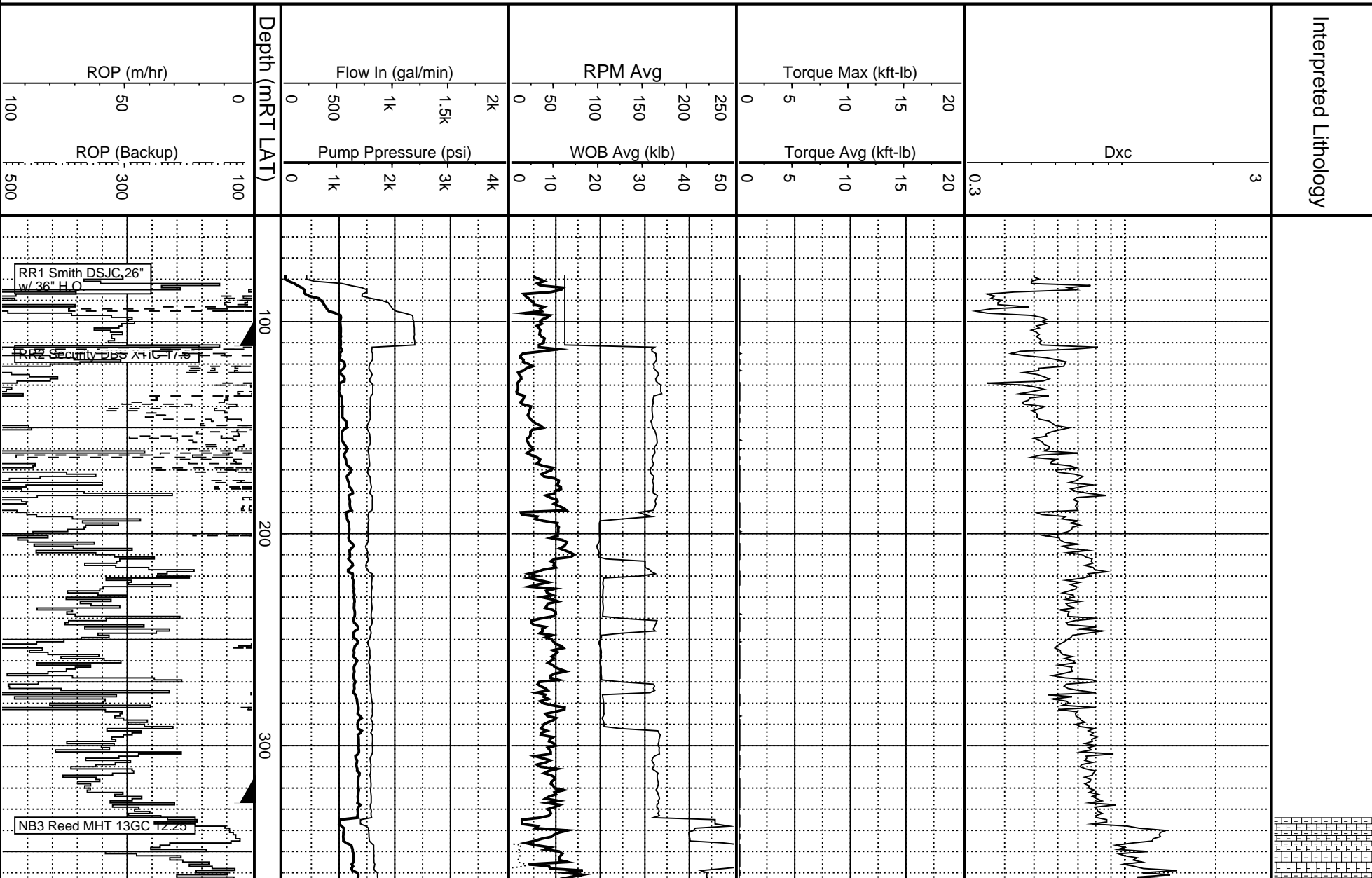
Loggers E. Spence, M. Dixon, T. Liang

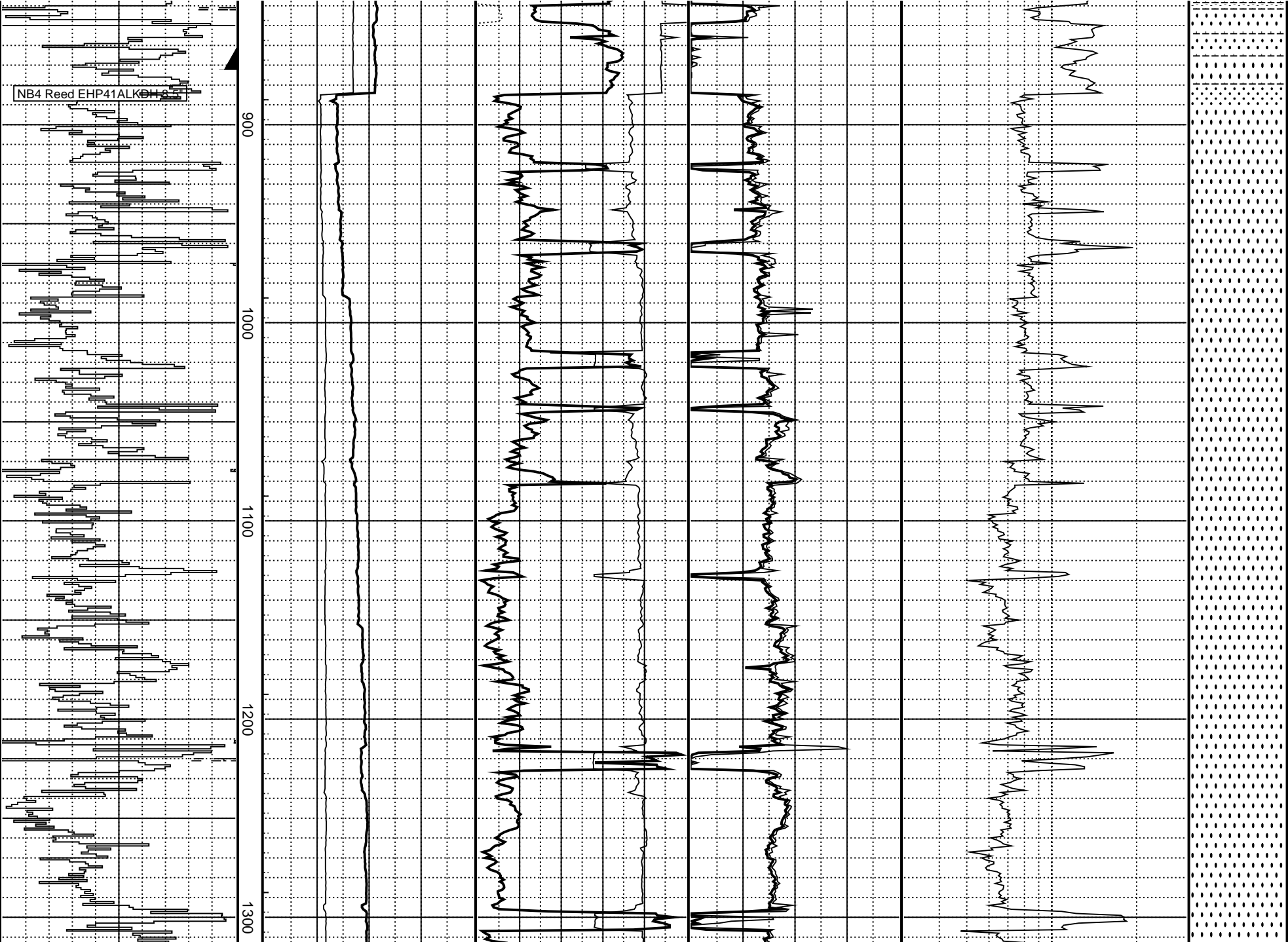


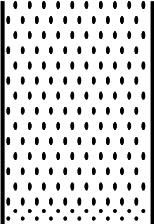
Drilling Data Plot

Patricia-2

Scale 1 : 2500.0







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1400

1500

1600

1700

Handwritten scribbles at the bottom of the page.

ROP (m/hr)		Depth (mRT LAT)	Flow In (gal/min)		RPM Avg		Torque Max (kft-lb)		Dxc	Interpreted Lithology										
ROP (Backup)			Pump Ppressure (psi)		WOB Avg (klb)		Torque Avg (kft-lb)													
100	50	0	0	500	1k	1.5k	2k	0	50	100	20	0	5	10	15	20	0.3	3		
500	300	100	0	1k	2k	3k	4k	0	10	20	30	40	50	0	5	10	15	20		



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INTEQ LOG SUITE

Formation Evaluation
Drilling Data Plot

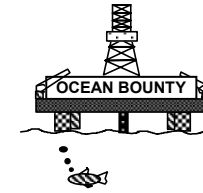
Pressure Data Plot
Pressure Summary Plot

ABBREVIATIONS

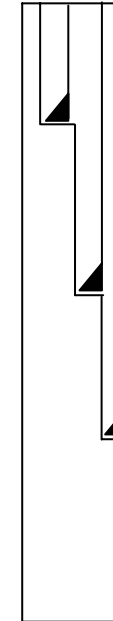
NB	New Bit	MD	Measured Depth
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WOB	Weight on Bit	MW	Mud Weight sg
RPM	Revs per Minute	FV	Funnel Viscosity
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CR	Circulate Returns	FC	Filter Cake
PR	Poor Returns	PV	Plastic Viscosity
NR	No Returns	YP	Yield Point
BG	Background Gas	Sol	Solids %
WTG	Wiper Trip Gas	Sd	Sand %
TG	Trip Gas	Cl	Chlorides
POG	Pumps Off Gas	RM	Mud Resistivity
CG	Connection Gas	RMF	Filtrate Resistivity
SG	Swab Gas	TVD	True Vertical Depth

LITHOLOGY SYMBOLS

Calcarenite Ca	Calcsiltite Cs	Calcilutite Cl	Glauconite Glauc
Dolomite Dol	Marl Mrl	Conglomerate Cgl	Pyrite Pyr
Sandstone Sst	Siltstone Slst	Claystone Clst	Radiolaria
Mica Mic	Cement Cmt	Coal C	Calc Claystone CalcClst



Permanent Datum - LAT
Sealevel 25mRT
52.5m (LAT)



Seabed @ 77.5m
Drilling Fluid: Seawater / Hi-vis sweeps
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13.375" csg set @ 327.1m
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8.5" hole to 1385m TD

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Well Patricia-2

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Region Gippsland Sub Basin

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148° 26' 57.78" E Long

Ref Elevation RT 25 m

Total Depth 1385 mRT

Contractor Diamond Offshore General Co.

Rig MODU Ocean Bounty

Type Semi-Submersible

LOG INTERVAL

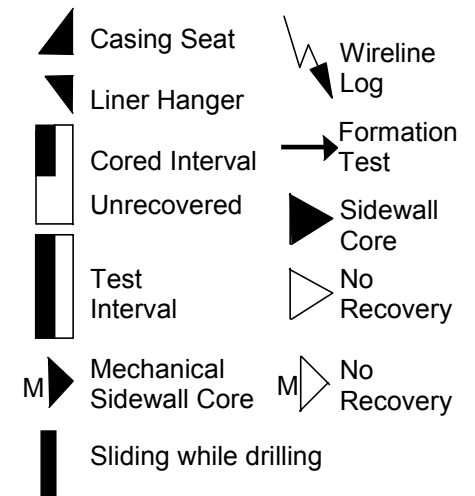
Depth 77.5 mRT to 1385 mRT

Date 20 – 28 June 2002

Scale 1:500

Data Engineers R. Tadiar, J. Wilson, R. Tena

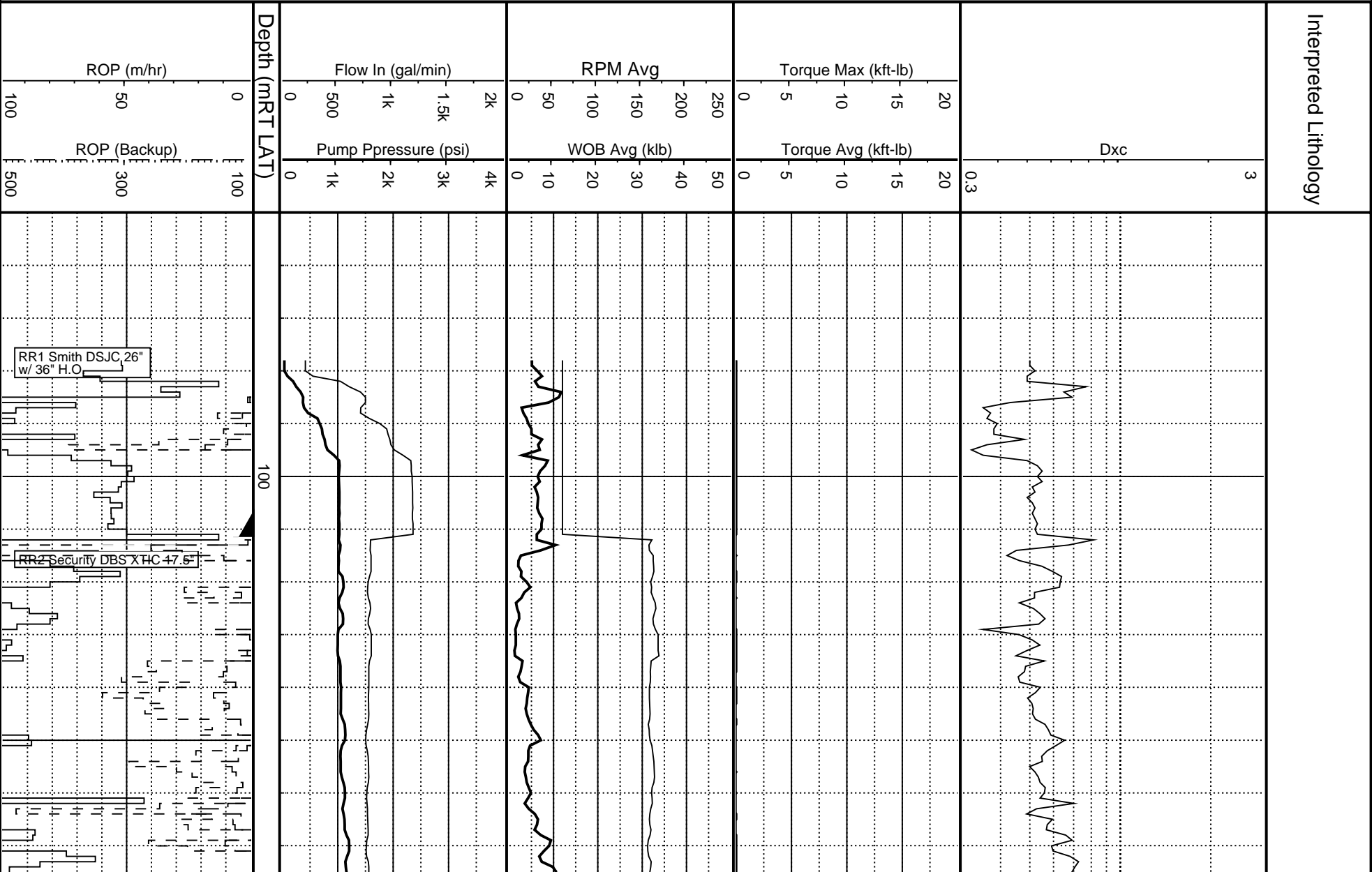
Loggers E. Spence, M. Dixon, T. Liang

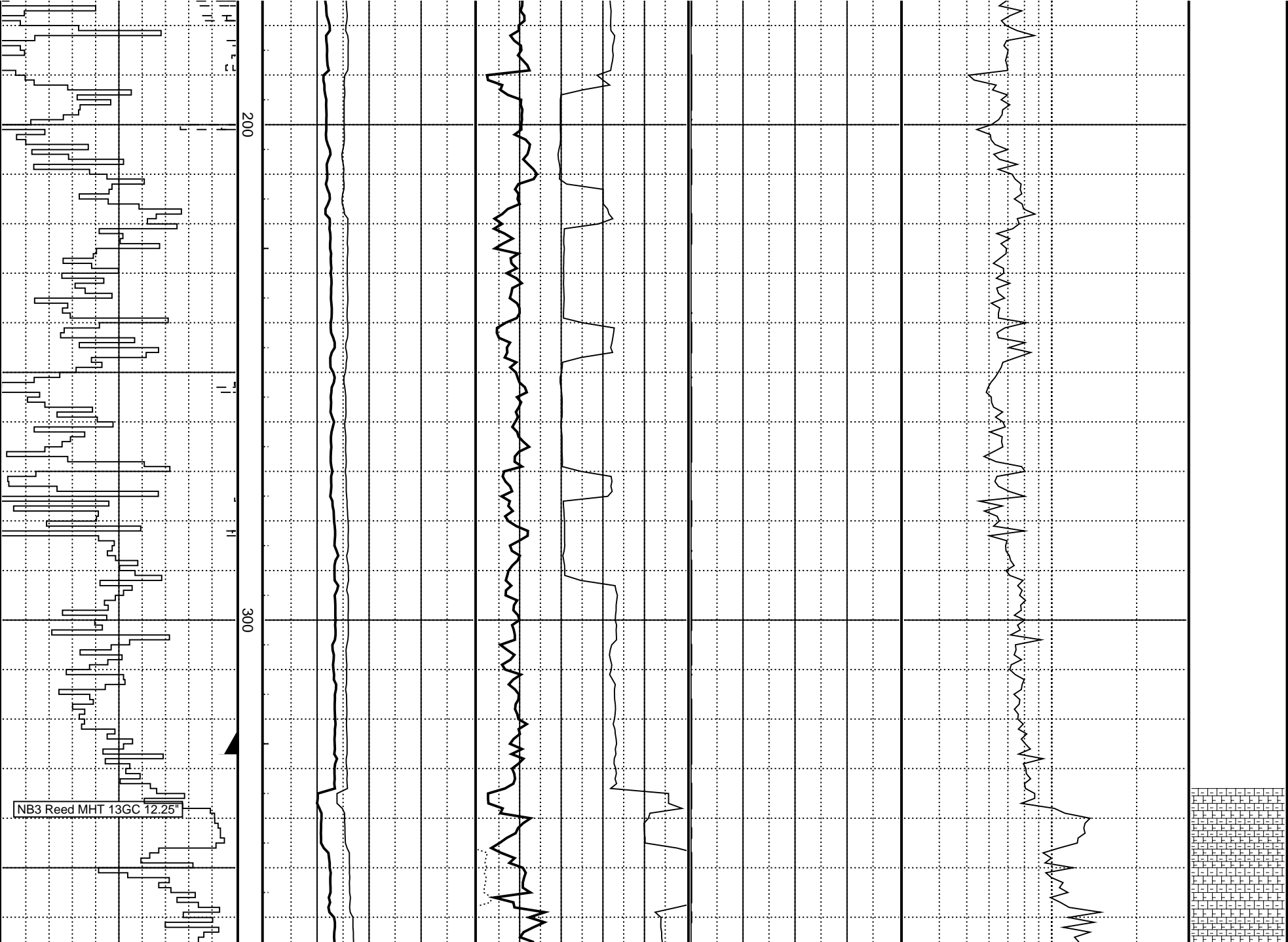


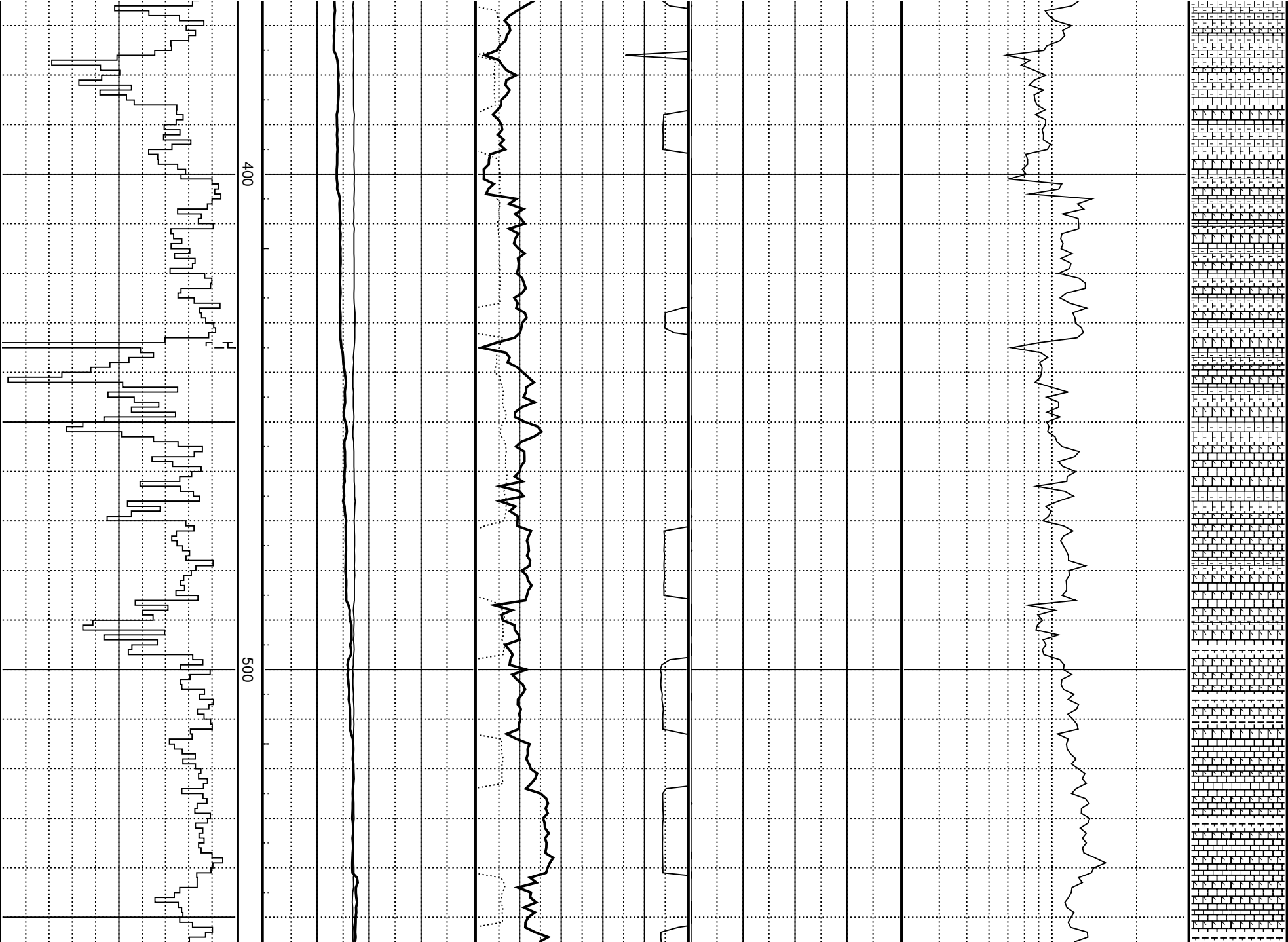
Drilling Data Plot

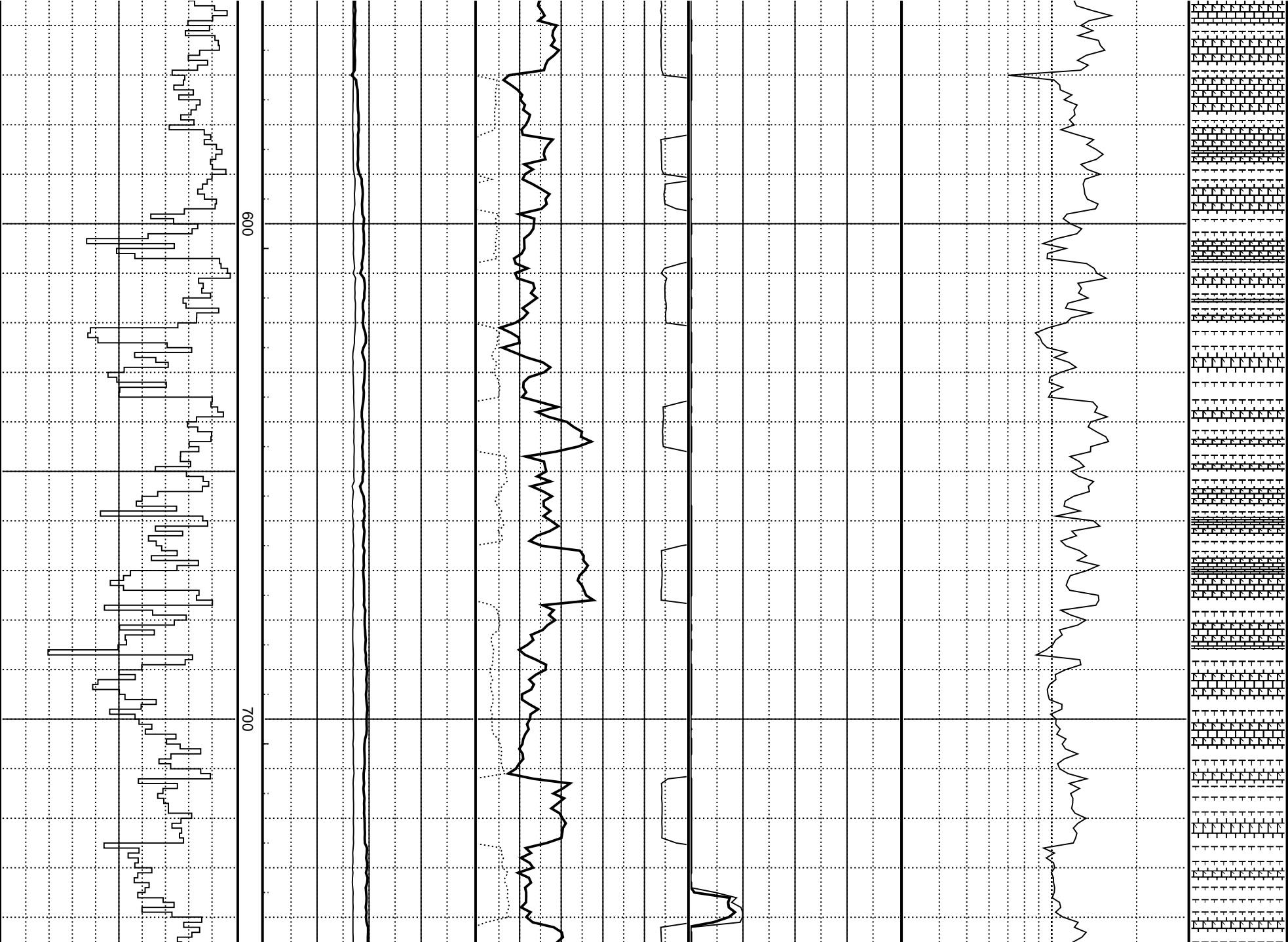
Patricia-2

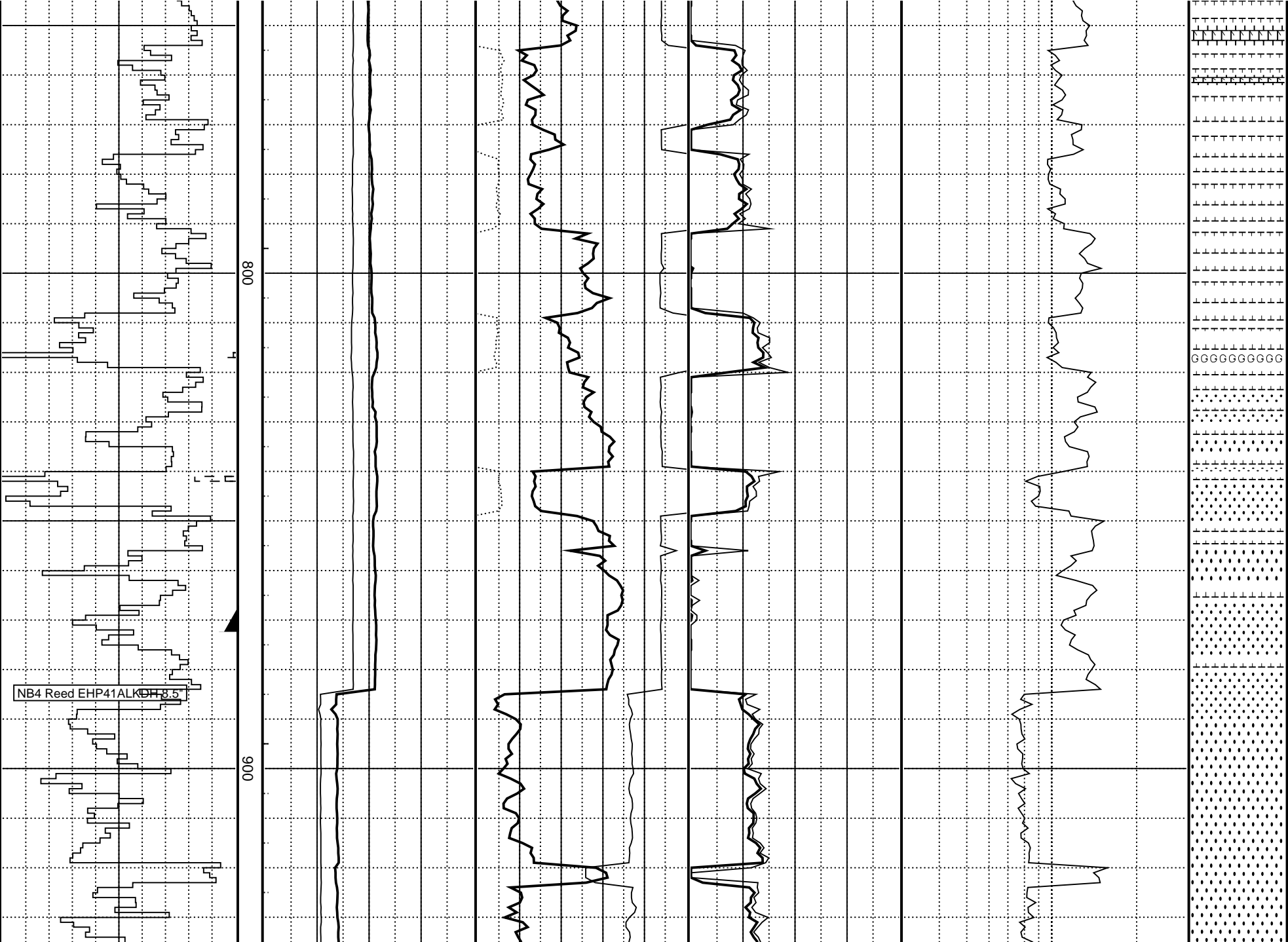
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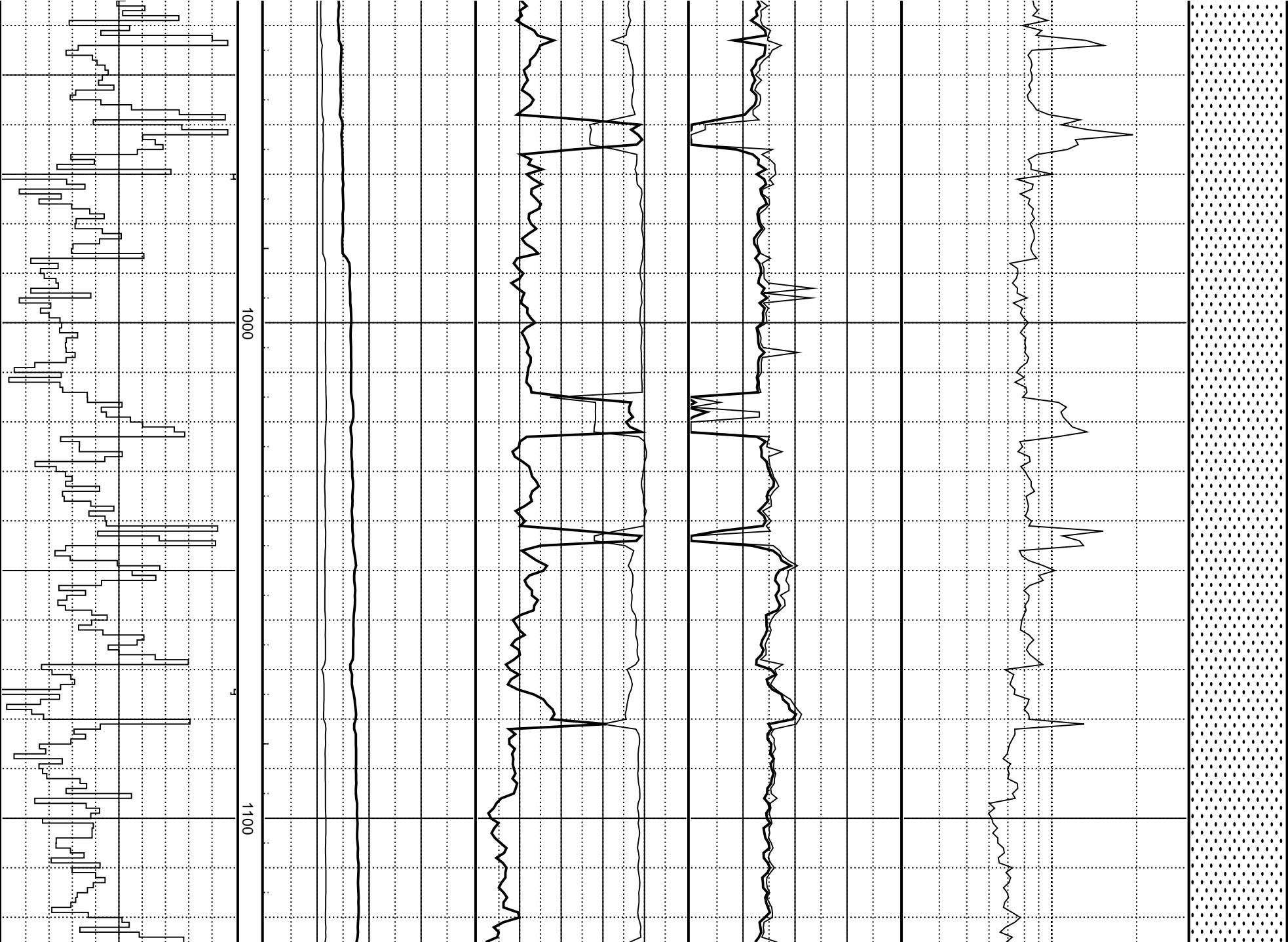


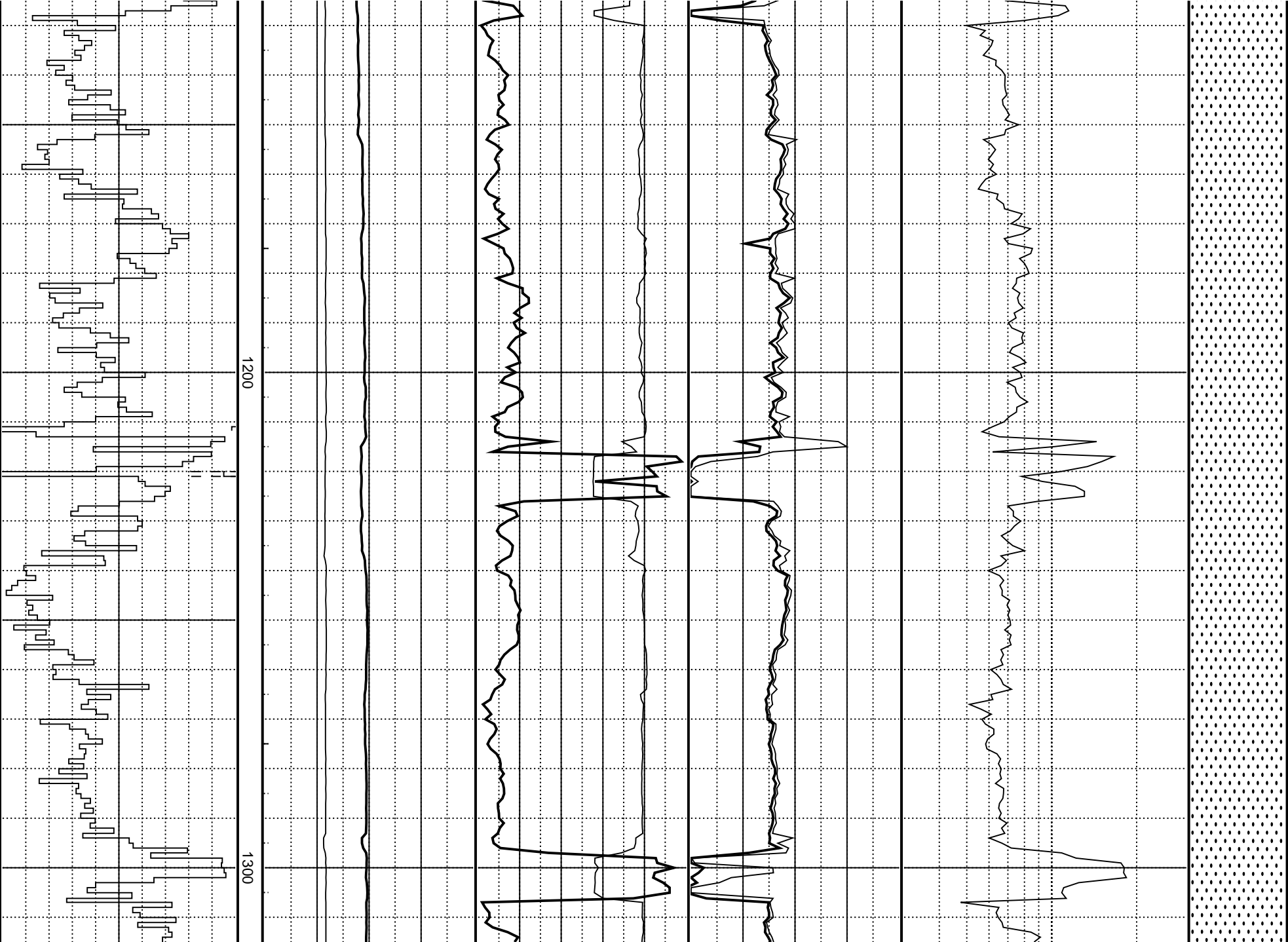


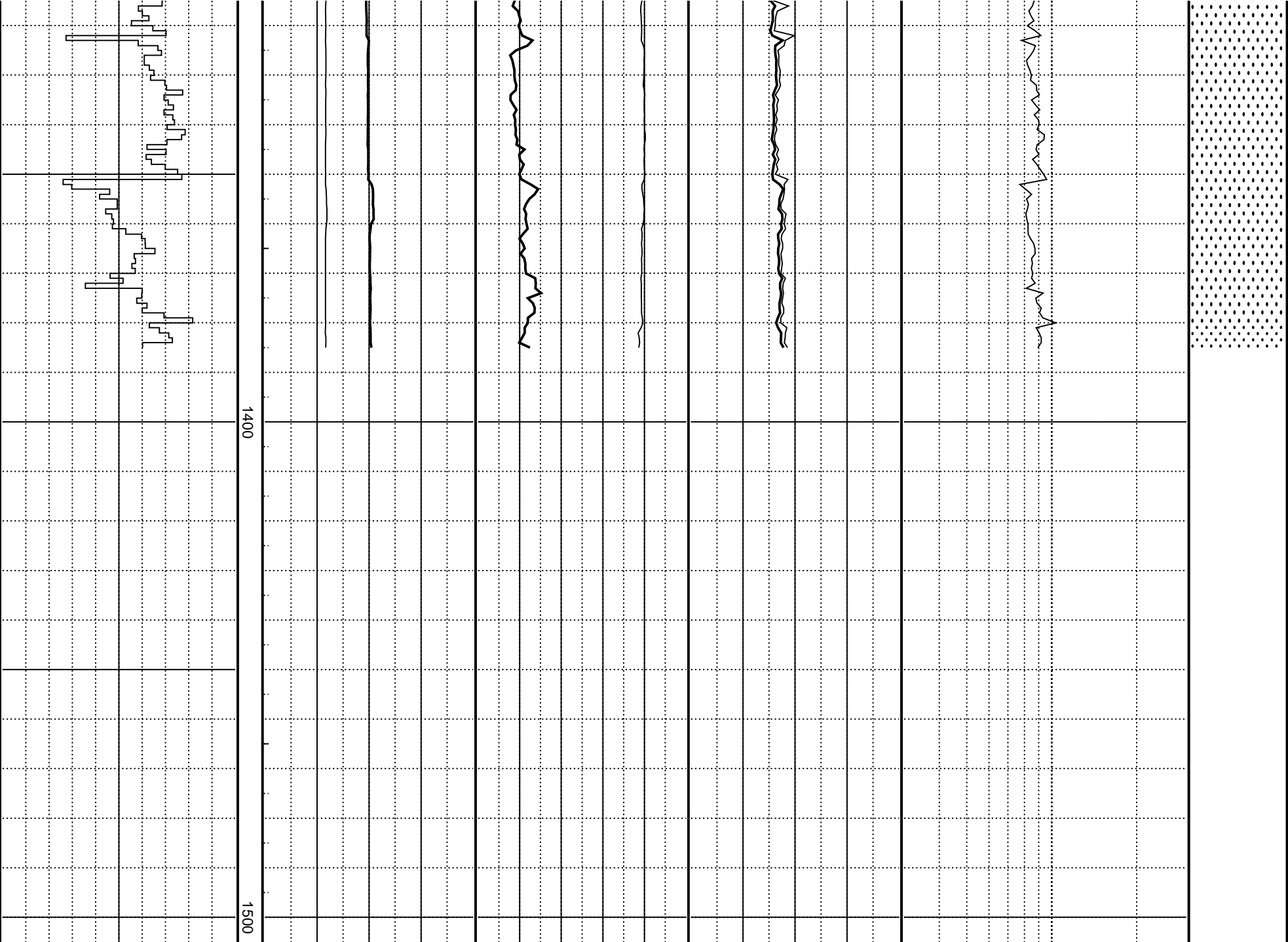












ROP (m/hr)		Depth (mRT LAT)	Flow In (gal/min)		RPM Avg		Torque Max (kft-lb)		Dxc	Interpreted Lithology									
ROP (Backup)			Pump Ppressure (psi)		WOB Avg (klb)		Torque Avg (kft-lb)												
100	50	0	0	500	1k	1.5k	2k	0	50	10	15	20	0.3	3					
500	300	100	0	1k	2k	3k	4k	0	10	20	30	40	50	0	5	10	15	20	



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INTEQ LOG SUITE

Formation Evaluation
Drilling Data Plot

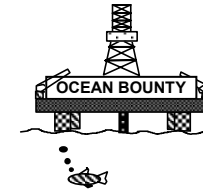
Pressure Data Plot
Pressure Summary Plot

ABBREVIATIONS

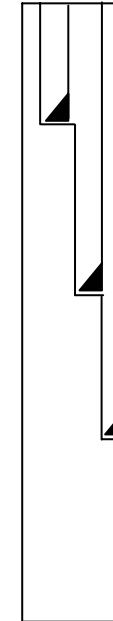
NB	New Bit	MD	Measured Depth
RR	Rerun Bit	GPM	Gallons per Min
CB	Core Bit	PP	Pump Pressure
WOB	Weight on Bit	MW	Mud Weight sg
RPM	Revs per Minute	FV	Funnel Viscosity
FLC	Flow Check	F	Filtrate - API
CR	Circulate Returns	FC	Filter Cake
PR	Poor Returns	PV	Plastic Viscosity
NR	No Returns	YP	Yield Point
BG	Background Gas	Sol	Solids %
WTG	Wiper Trip Gas	Sd	Sand %
TG	Trip Gas	Cl	Chlorides
POG	Pumps Off Gas	RM	Mud Resistivity
CG	Connection Gas	RMF	Filtrate Resistivity
SG	Swab Gas	TVD	True Vertical Depth

LITHOLOGY SYMBOLS

Calcarenite Ca	Calcsiltite Cs	Calcilutite Cl	Glaucinite Glauc
Dolomite Dol	Marl Mrl	Conglomerate Cgl	Pyrite Pyr
Sandstone Sst	Siltstone Sltst	Claystone Clst	Radiolaria
Mica Mic	Cement Cmt	Coal C	Calc Claystone CalcClst



Permanent Datum - LAT
Sealevel 25mRT
52.5m (LAT)



Seabed @ 77.5m
Drilling Fluid: Seawater / Hi-vis sweeps
36" hole to 111.5m
30" x 20" csg set @ 111.5m
Drilling Fluid: Seawater / Hi-vis sweeps
17.5" hole to 334m
13.375" csg set @ 327.1m
Drilling Fluid: KCl / PHPA / Glycol
12.25" hole to 884m
9.625" csg set @ 872.3m
Drilling Fluid: FLO - PRO
8.5" hole to 1385m TD

Company OMV Australia Pty Ltd

Well Patricia-2

Permit VIC/L21

Region Gippsland Sub Basin

Designation Field Development

Coordinates 038° 01' 39.95" S Lat
148° 26' 57.78" E Long

Ref Elevation RT 25 m

Total Depth 1385 mRT

Contractor Diamond Offshore General Co.

Rig MODU Ocean Bounty

Type Semi-Submersible

LOG INTERVAL

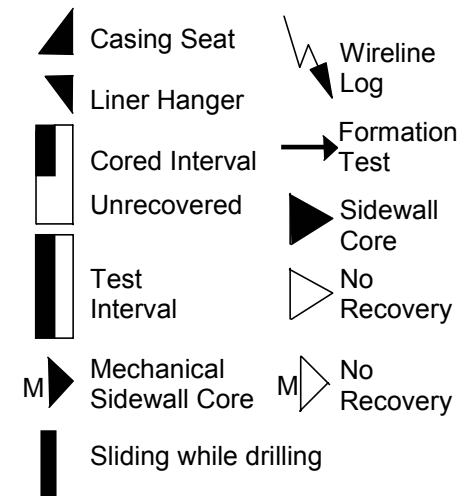
Depth 77.5 mRT to 1385 mRT

Date 20 – 28 June 2002

Scale 1:500

Data Engineers R. Tadiar, J. Wilson, R. Tena

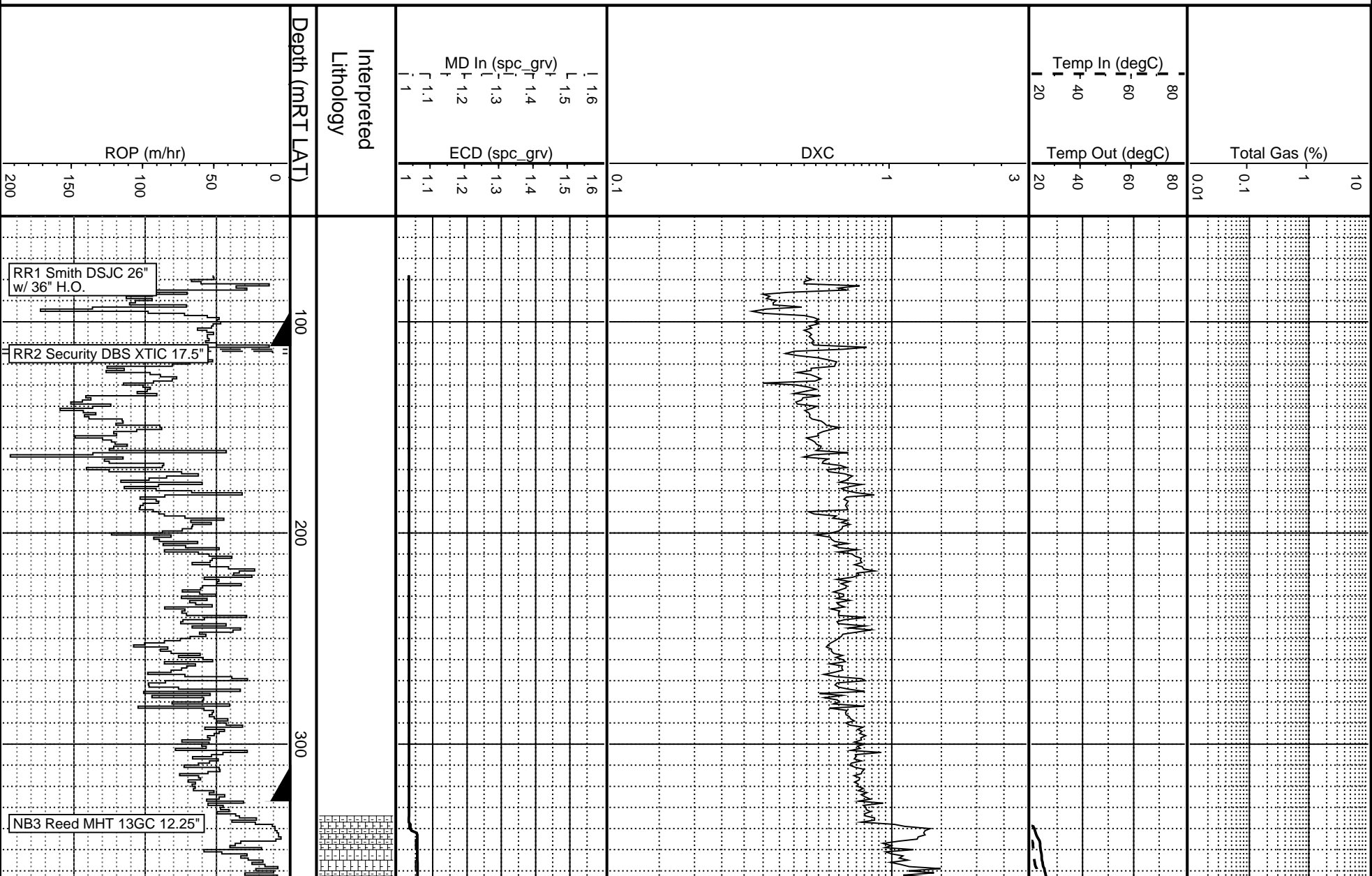
Loggers E. Spence, M. Dixon, T. Liang

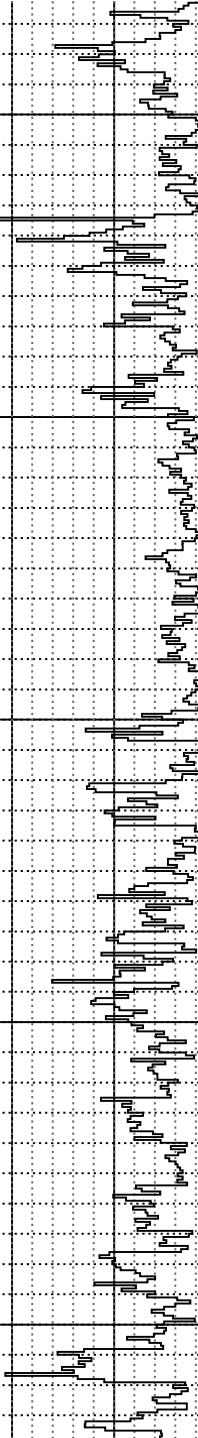
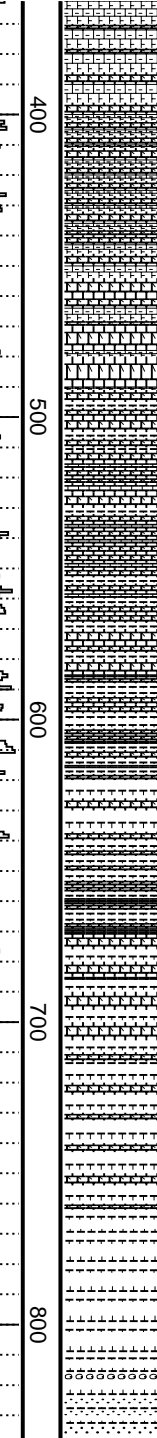
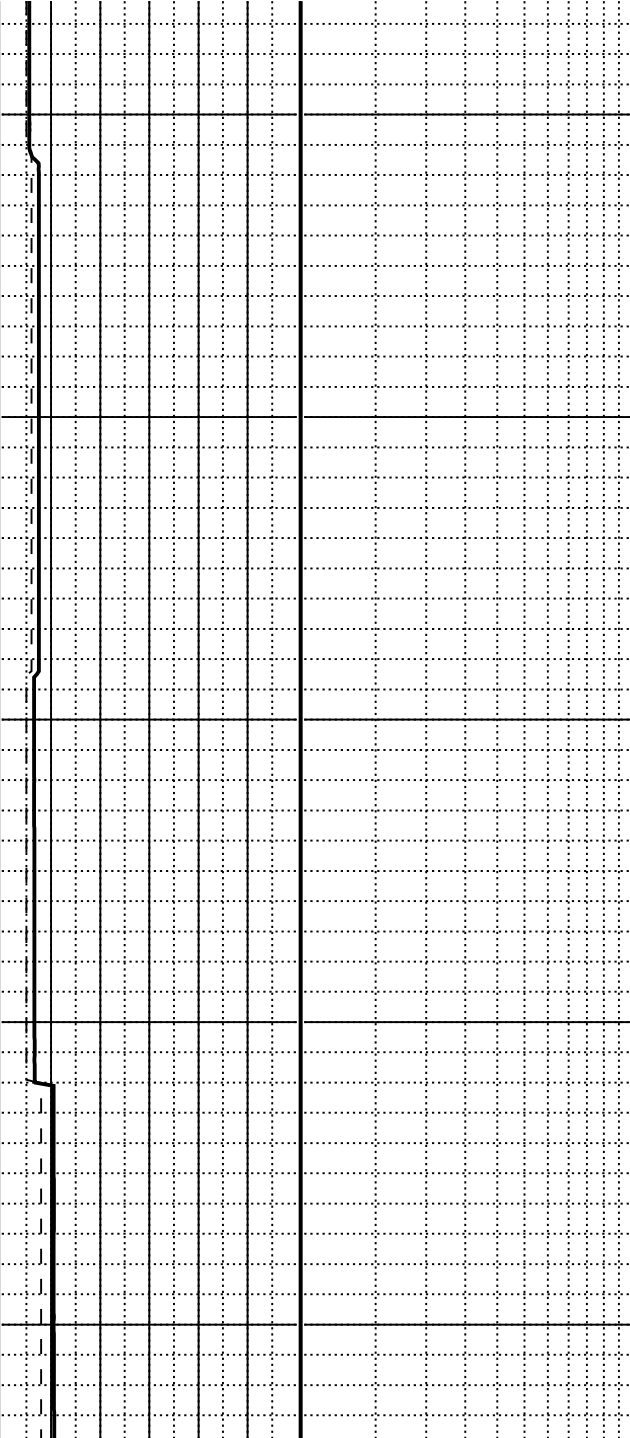
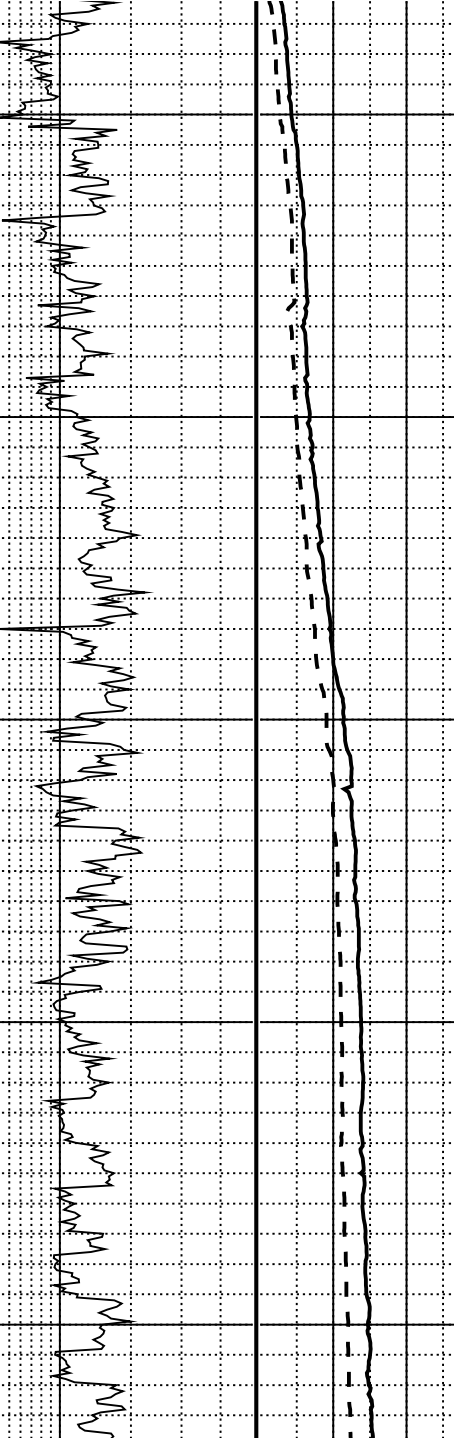
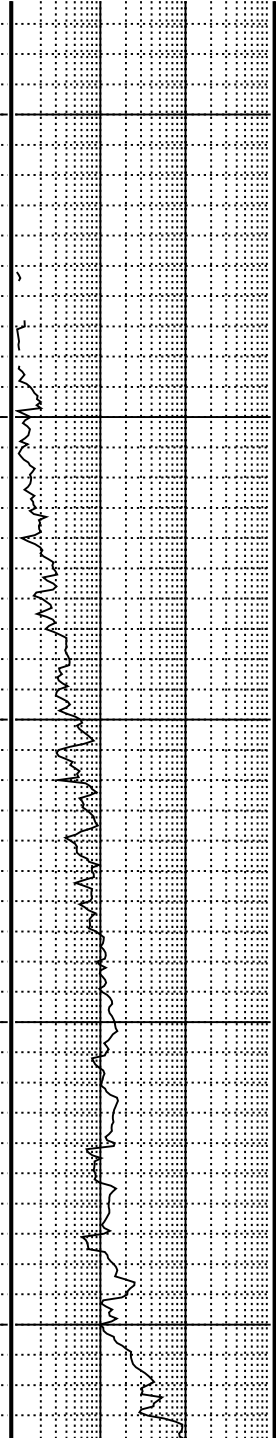


Pressure Data Plot

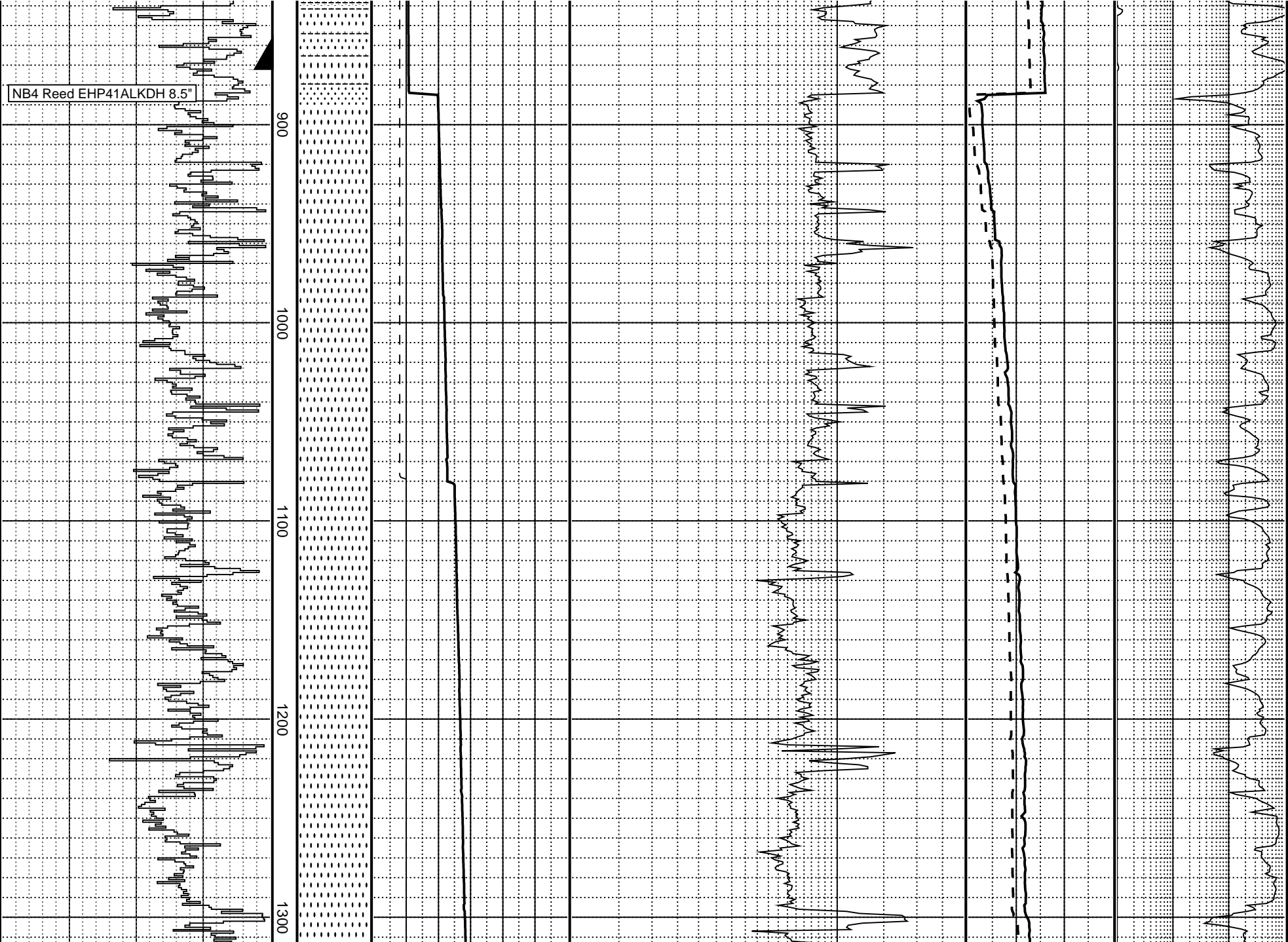
Patricia-2

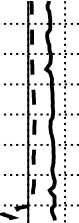
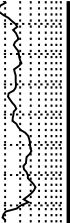
Scale 1 : 2500



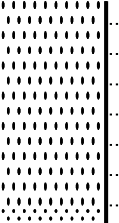


400
500
600
700
800





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1400

1500

1600

1700

Depth (mRT LAT) lin		MD In (spc_grv) 1 1.6 1 1.5 1 1.4 1 1.3 1 1.2 1 1.1 1 1	ECD (spc_grv) 1 1.6 1 1.5 1 1.4 1 1.3 1 1.2 1 1.1 1 1	DXC 0.1 1 3	Temp In (degC) 20 40 60 80 Temp Out (degC) 20 40 60 80 Total Gas (%) 0.01 0.1 1 10
ROP (m/hr) 0 50 100 150 200					



OMV Australia





INTEQ



INTEQ LOG SUITE

Formation Evaluation
Drilling Data Plot

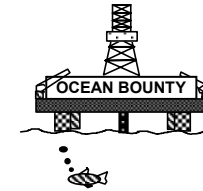
Pressure Data Plot
Pressure Summary Plot

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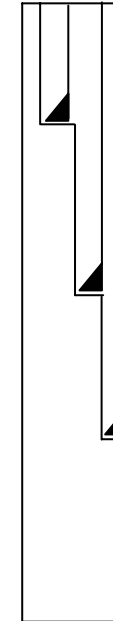
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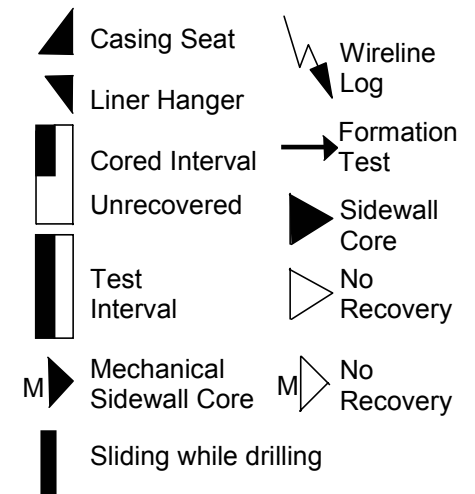
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Date 20 – 28 June 2002

Scale 1:500

Data Engineers R. Tadiar, J. Wilson, R. Tena

Loggers E. Spence, M. Dixon, T. Liang



PRESSURE SUMMARY PLOT



INTEQ

Patricia-2

SCALE: 1:5000.0

PRESSURE GRADIENTS

Overburden Gradient

Fracture Pressure Gradient

Effective Circulating Density

Estimated Pore Pressure Gradient

LITHOLOGY

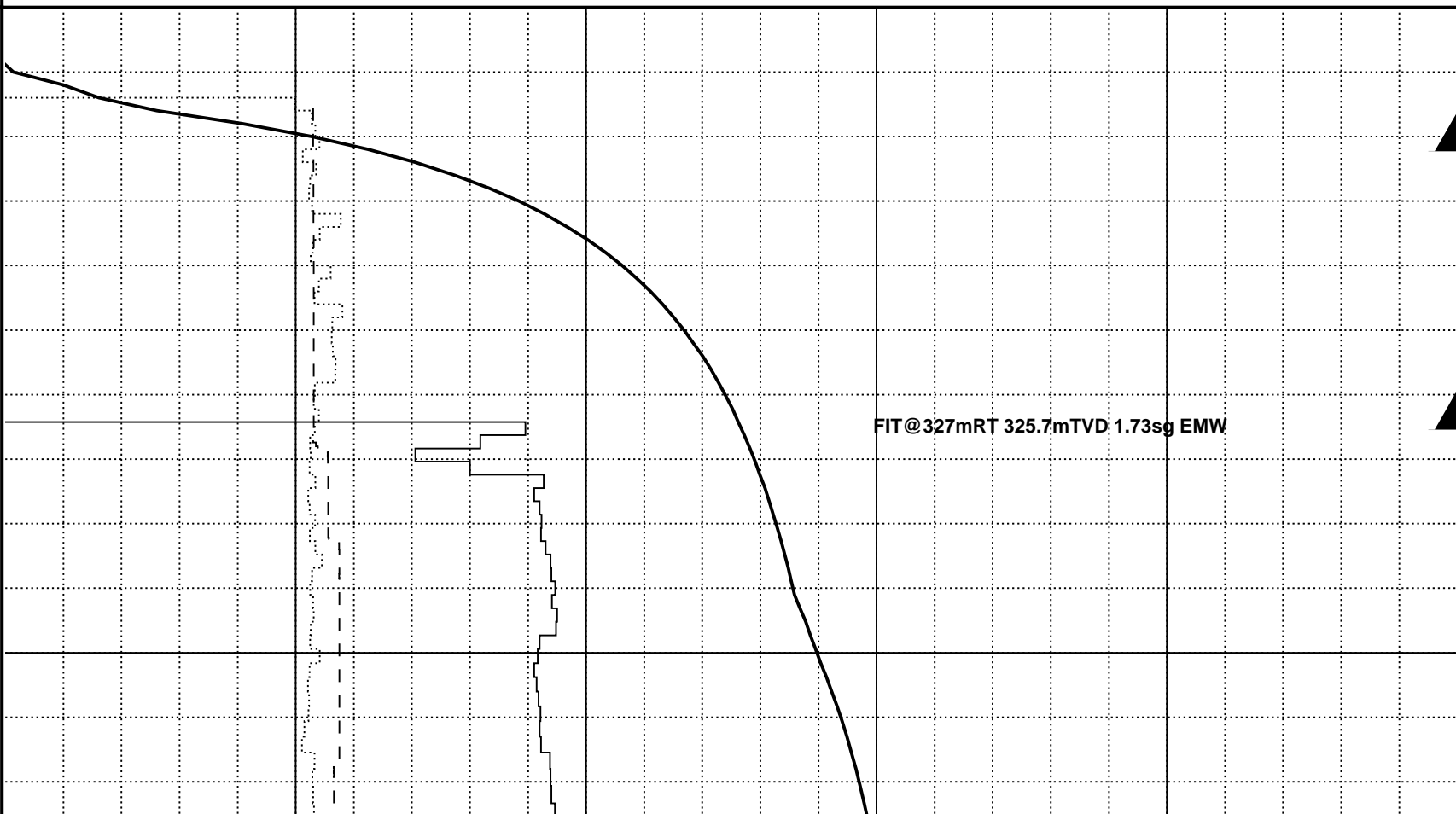
VERTICAL
DEPTH (m)

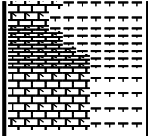
0.5 1 1.5 2 2.5 3

0

500

FIT@327mRT 325.7mTVD: 1.73sg EMW

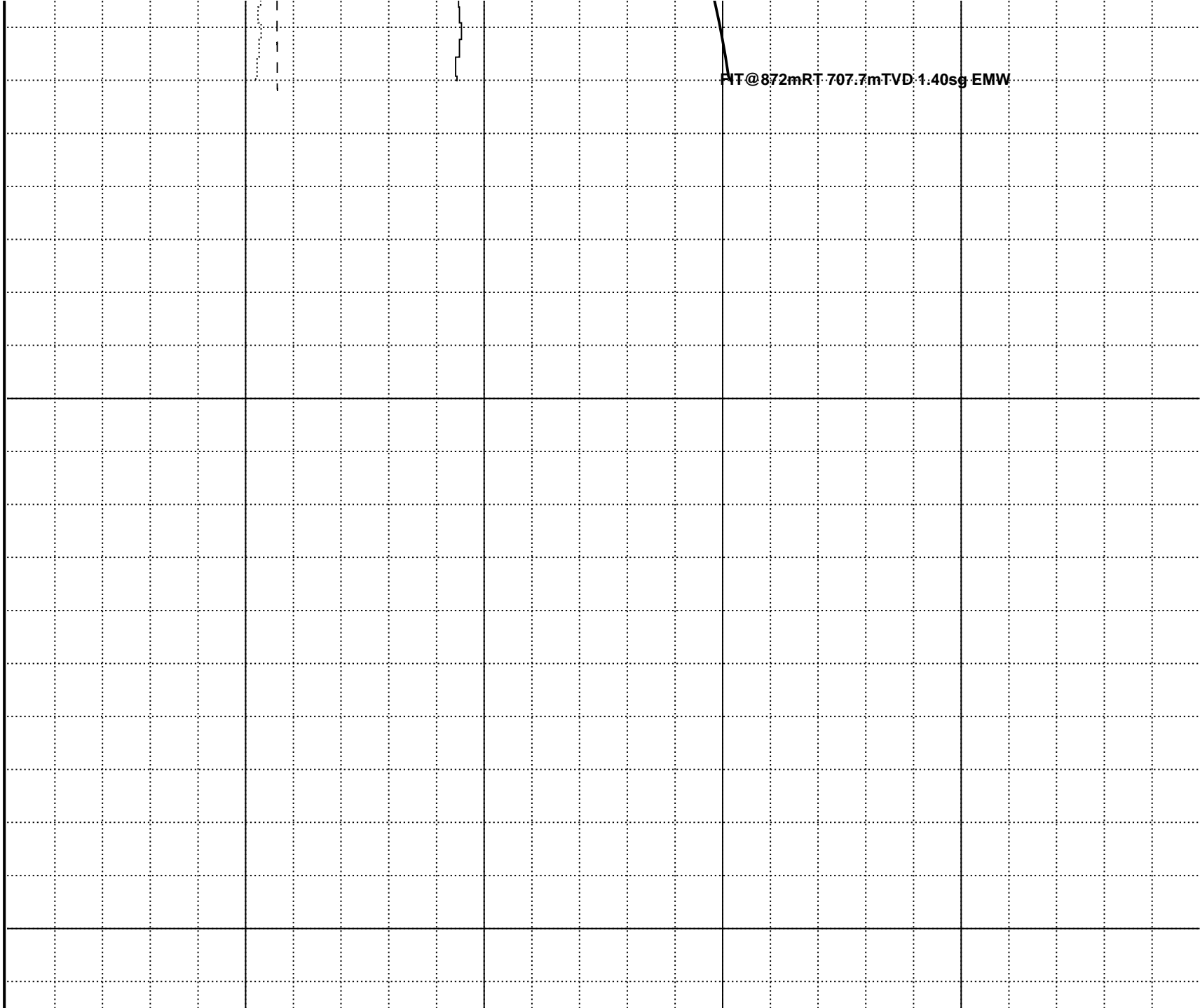




PT@872mRT 707.7mTVD: 1.40sg EMW

1000

1500



PRESSURE GRADIENTS

Overburden Gradient

Fracture Pressure Gradient

Effective Circulating Density

Estimated Pore Pressure Gradient

0.5 1 1.5 2 2.5 3

LITHOLOGY