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CASINO-5

BASIC DATA REPORT

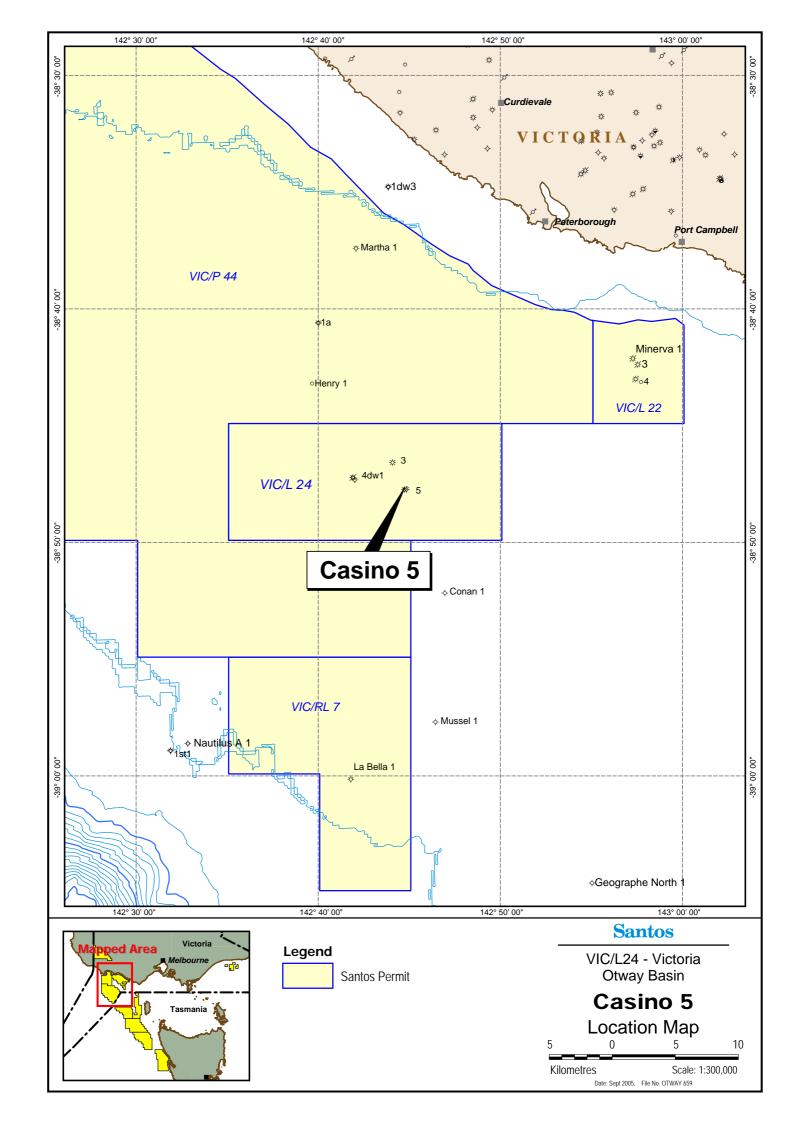
PREPARED BY: J. Pitman (Consultant) July 2005

CASINO-5 BASIC DATA REPORT

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LOCATION MAP



GENERAL DATA CARD

	WELL CATEG	ORY: OFFSHORE	SPUD: 19	9:00hr on 16/	6/05			
			TD REA	CHED: 19:00	0hr on 28/6/	05		
WELL: CASINO-5		GAS DEV	RIG REI	LEASED: 22	:00hr on 08/	/07/05 CMPLT :		
	WELL INTENT	GAS	RIG: OC	CEAN PATRI	TOI			
SURFACE LOCATION			STATUS	: Single Con	npletion Gas	s Well (SCG)		
LAT: 38° 47′ 43.68″ S		` /	REMAR	KS:				
NORTHING: 5704473.	Im EASTING: 65	1604.4m	Single 7"	completion v	vith expanda	able sand screens		
SEISMIC STATION:	SEISMIC STATION: 2001 Casino-3D, 150m West of Casino 2				over reservoir.			
ELEVATION SEA FLO	OOR: -68.2m LAT	RT +21.5m LAT						
BLOCK/LICENCE: C	Otway Basin - VI	C P- 44	HOLE	CASING	SHOE	TYPE		
TD 1806 r	n (Logr Extrap)	1806 m (Drlr)	SIZE	SIZE	DEPTH			
PBTD r	n (Logr)	m (Drlr)	914mm	762mm	132m	461 kg/m X52		
TYPE STRUCTURE:	445mm	340mm	655m	107 kg/m BTC L80				
TYPE COMPLETION: Single Completion				244mm	1719.8m	70 kg/m BTC		
ZONE(S): WAARRE CB						L80/13Cr80		
			216mm	194mm	1800m	44.3 kg/m 13Cr80		

LOG	SUITE/	INTERVAL	BHT/TIME
	RUN	(m)	COMMENTS
Wireline logs were not run during Casino 5			

LOG (MWD)	SUITE/ RUN	INTERVAL (m)	COMMENTS
GR-RES-SURVEYS	1 / 1	665m - 1160m	Real time failure at 940m
GR-RES-SURVEYS	1 / 2	1160m - 1392m	
GR-RES-SURVEYS	1 / 3	1392m - 1730m	
GR-RES-SURVEYS	2 / 1	1730m - 1806m	

SECTION 1: WELL HISTORY

1.1 <u>INTRODUCTION</u>

The Casino gas field is located in the southeast corner of the offshore Otway exploration block VIC/P44 (Figure 2.1-a). The field lies in 70m of water and is 29km southwest of Port Campbell and 250km southwest of Melbourne.

Casino 5 was drilled as a Waarre C producer and is effectively a twin well to Casino-2 located 150m to the west and at virtually the same structural elevation. The well has been placed high on the structure to maximise from standoff from the gas-water contact and hence maximise gas recovery prior to water arrival at the well

The Casino structure is a tilted fault block with three way dip closure and up dip fault closure. Casino-1 and Casino-2 were drilled crestally on this fault block, Casino-3 was drilled in a down-dip location near the structural closure limit. Casino-1 and Casino-2 established the presence of gas in the "Younger" and "Older" sands of the Waarre Sandstone.

Casino 5 was drilled by the semi-submersible drilling rig "Diamond Offshore Ocean Patriot".

1.2 GENERAL DATA

Well Name: CASINO 5

Well Classification: Offshore Gas Development

Interest Holders: Santos Ltd 50%

AWE Ltd 25% Mitsui & Co Ltd 25%

Participating Interests: Santos Ltd 50%

AWE Ltd 25% Mitsui & Co Ltd 25%

Operator: Santos Ltd.

Location: Offshore Victoria – Otway Basin VIC P-44.

Surveyed Location Latitude: 38° 47' 43.68" South

(GDA94) Longitude: 142° 44' 44.60" East

Northing: 5704473.1m Easting: 651604.4m

Seismic Location: 150m West of Casino

Seismic Survey: 2001 Casino 3D

Elevations: Water Depth 68.2m LAT

Rotary Table 21.5m LAT

Total Depth: Driller: 1806m RT

Logger: 1806m RT (LWD) Logger Extrapolated: 1806m RT

Status: Single Completion Gas Well (SCG)

License: VIC P-44 Offshore Victoria

Date Drilling Commenced: 19:00 hours on 16th June 2005.

Date Drilling Completed: 19:00 hours on 28th June 2005.

Date Rig Released: 22:00 hours on 8th July 2005.

Total Well Time: 22 days 3 hours.

Contractor: Diamond Offshore

Rig: Ocean Patriot (Semi-submersible)

1.3 **DRILLING SUMMARY**

(a) <u>Drilling Summary</u> (All Depths Driller's RT)

Casino 5 was spudded at 19:00 hrs on 16th June 2005 utilising the semi-submersible drilling facility "Ocean Patriot".

Bit 1, a 660mm (26") Smith DSJ was run in with a 914mm (36") hole opener. The 914mm (36") hole section was drilled in one bit run from seafloor at 89.7m to section total depth at 133m. All returns were to the seafloor. The hole was swept and displaced to PHG mud. A string of 762mm (30") (461 kg/m X52) casing was run and set at 132m.

Bit 2, a Smith XR+CRS was run in hole tagging the top of cement at 128.67m. The cement and shoe track were drilled and the rat hole cleaned to 133m. Guide post 3 had released and was reestablished with the ROV. The 445mm (17.5") hole section was drilled in one bit run from 133m to section total depth at 665m. The hole was swept and circulated clean prior to displacing the well to PHG mud. The drill string was pulled out of the hole to 132m working through tight spots. The string was run back into the hole for a wiper trip washing down through 3m of fill on bottom. The hole was circulated clean and displaced to PHG mud and the string pulled from the hole with no tight hole observed. 47 joints of 340mm (13.375") (107 kg/m L80) casing were run with the shoe set at 655m. Following running and cementing casing the production tree was skidded to the moon pool and run in hole. The tree was successfully landed. The blow out preventer and marine riser were then moved to the moonpool, lines attached and the BOP run on the marine riser. The blow out preventer was landed however prior to scoping out the slip joint a riser tensioner line parted. The failed line was isolated and operations were resumed. The blow out preventer and equipment were pressure tested as per program.

Bit 3, a Smith GS04BDV tricone 311mm (12½") was made up with the Sperry LWD tools (Gamma-ray, Resistivity and directional) and was run in hole tagging the top of cement at 633m. The cement, shoe track and casing shoe at 655m were drilled, the rat hole cleaned out to 665m and 3m of new formation drilled to 668m. A Leak-off Test was conducted yielding an Equivalent Mud Weight (EMW) of 2.08 SG. The 311mm (12.25") hole was then drilled from 668m to 1160m with the LWD failing at 940m. At 1160m, after penetrating the Massacre Shale the bit was pulled from the hole to pick up MWD tools and a new bit. Bit 3 was graded 4-5-WT-A-E-I-NO-P.Rate.

Bit 4, a Smith MA89PX PDC was made up with new LWD tools and run into the hole. Surveys were taken from 891m while running into the hole to establish hole deviation. Drilling 311mm (12¹/₄") hole continued from 1160m to 1392m. Bit 4 was pulled from the hole due to slow penetration rate and was graded 1-1-BT-S-X-I-BU-PR.

Bit 5, a Hycalog DSX104, was run into the hole drilling the remainder of the 311mm (12½") hole to section total depth at 1730m. At section TD the hole was circulated clean however upon pulling out of hole tight hole was encounted. The hole was backreamed to 1300m. The string was then run to bottom for a wiper trip. The hole was circulated clean and the string pulled from the hole with the hole found to be in good condition while pulling out. 137 joints of 244mm (9 5/8") 70 kg/m (47 lb/ft) mixed L80/13Cr80 were run with the shoe set at 1719.8m.

After running the 9 5/8" casing, Bit 6, a 216mm (8½") Hycalog DSX104 was made up with the LWD tools and run into the hole tagging the top of cement at 1693m. The cement and shoe track were drilled and the rat hole cleaned out to 1730m. The mud system was displaced to a "Flopro" mud system prior to drilling ahead. The 216mm (8½") hole section was drilled in one bit run from 1730m to 1806m. Total depth was reached at 19:00 hours on 28/06/2005. The hole was circulated clean and a wiper trip conducted prior to pulling out of the hole.

Following the drilling of the 216mm ($8\frac{1}{2}$ ") production hole expandable sand screens were run on 194mm (7 5/8") production liner. The well was then production tested and suspended for future production. The rig was released at 22:00 hours on 8^{th} July, 2005.

(b) <u>Mudlogging Services</u>

Mudlogging services were provided by Geoservices Unit 170 with the following parameters monitored:

- 1. Total Gas
- 2. Chromatographic Gas Breakdown
- 3. Hydrogen Sulphide Levels
- 4. Depth/Rate of Penetration.
- 5. Pipe Speed/Block Position
- 6. Top drive RPM
- 7. Top drive Torque
- 8. Hook Load/Weight On Bit
- 9. Standpipe Pressure
- 10. Casing Shut-in Pressure
- 11. Mud Pump Rate (3 pumps)

- 12. Mud Flow Out
- 13. Mud Pit Levels (8 pits)
- 14. Mud Weight In and Out
- 15. Mud Temperature In and Out
- 16. Resistivity In and Out
- 17. Carbon Dioxide Detectors

Ditch cuttings were collected at 6m intervals in the 311mm (12-1/4") section from 665m to 1644m and 3m intervals from 1644m to section total depth at 1730m. In addition to microscopic examination of all drilled cuttings, samples were examined under the fluoroscope for hydrocarbon indications. Further information is presented in Geoservices' report in SECTION 12: MUDLOGGING WELL REPORT. Details of all wellsite samples is found in Section 2.2: CATALOGUE OF WELLSITE SAMPLES

c) <u>LWD Data</u>

Logging While Drilling (LWD) was acquired by Sperry-Sun in Casino 5. LWD services consisted of Dual Gamma Ray (DGR), Electromagnetic Wave Resistivity (EWR-P4) and Directional Module (DM) for deviation control. LWD data was acquired in the 311mm (12½") hole from 665m to 1730m in three runs. During run 1 from 665m to 1160m realtime data failed at 940m. During runs 2 and 3 from 1160m to 1392m and 1392m to 1730m realtime data was acquired without event. Recorded mode data was collected during all three runs. Sperry Sun's detailed report is attached in Section 3.1: LWD END OF WELL REPORT.

d) Testing

At the completion of drilling Casino 5 the well was completed with 7 5/8" casing and expandable sand screens. The well was then flow tested over the primary reservoir zone to confirm reservoir flow characteristics. The test was conducted over the interval 1720m to 1806m and flowed at the maximum choke-constrained measured flow rate of 43 MMscf/d through a 23.8 mm (60/64") choke at a well head tubing pressure of 163534 kpa (2372 psig). Expro's detailed report of the production test is attached in Section 4: PRODUCTION TEST REPORT.

(e) Coring

No full hole cores were cut at the Casino 5 location.

(f) Biostratigraphy

Micro-palaeontology studies are included in section 16.

(g) Electric Logging

No wireline logs were conducted at the Casino 5 location.

h) RCI Pressure Data

A pressure survey was not conducted at the Casino 5 location.

(i) <u>Hole Deviation</u>

Casino-5 was drilled as a vertical hole. Deviation Surveys were recorded utilising the LWD/MWD tools in the 311mm (12.25") and 216mm ($8\frac{1}{2}$ ") hole sections. An EMS survey was conducted in the 445mm ($17\frac{1}{2}$ ") hole section. Survey Data are presented in Section 15: DEVIATION SUMMARY.

At Total Depth, the estimated displacement from the wellhead was approximately 85m to 245°(T). At total measured depth, 1806m, the TVD was calculated at 1802m.

(j) <u>Velocity Surveys</u>

No velocity survey was conducted at the Casino-5 location.

(k) <u>Casing & Cementing Summary</u>

The following Table-3 summarises casing sizes, depths and cementing details for Casino-5. Casing and Cementing Reports for each casing run are detailed in Section 11: CASING & CEMENTING SUMMARY.

TABLE 3

HOLE SIZE	DEPTH	CASING SIZE	CASING DEPTH	JOINTS	CASING TYPE	CEMENT
914mm (36")	133m	762mm (30")	132m	4	461 kg/m X52	Mix and pump 7.3m3 (46 bbl) class "G" cement with 0.01 gal/sk D047, 1.5% S001 BWOC, mixed to a slurry weight of 1.19sg.
445mm (17.5")	665m	340 mm (13.375")	655m	49	107kg/m L80 BTC	Mixed and pumped 31.6m3 (199bbl) class "G" cement to a slurry weight of 15.5-15.9 ppg. Displaced with 2.2 m3 (1.5bbl) of seawater.
311mm (12.25")	1730m	244 mm (9.625")	1719.8m	137	70kg/m 13Cr80 / L80	Lead: 9.1 m3 (57bbl) class "G" cement, mixed to a slurry weight of 1.5sg (12.5ppg). Tail: 7.3 m3 (46bbl) class "G" cement, mixed to a slurry weight of 1.9sg (15.8ppg).
216mm (8.5")	1806m	178mm (7")	1800m		43.4 13Cr80	Run with expandable sand screens.

SECTION 2: LITHOLOGICAL DESCRIPTIONS

SECTION 2.1: CUTTINGS DESCRIPTIONS

2.1 <u>CASINO-5 - LITHOLOGICAL DESCRIPTIONS</u>

Depth From	Depth To	%	Lithology and Shows
(m)	(m)		
CASINO			on 16 th June 2005 utilising the semi submersible drilling facility
			eturns were to the seafloor prior to running the 340mm (13 3/8")
casing, bl	ow out p	reventer a	nd marine riser at 665m.
665	666	20	CALCAREOUS SILTSTONE: medium brownish grey-medium brown, argillaceous grading to CALCAREOUS CLAYSTONE, common forams, firm, sub blocky.
		80	CEMENT
666	672	100	CALCAREOUS SILTSTONE: medium brownish grey-medium brown, argillaceous grading to CALCAREOUS CLAYSTONE, common forams, firm, sub blocky.
672	678	100	CALCAREOUS SILTSTONE: medium brownish grey-medium brown, argillaceous grading to CALCAREOUS CLAYSTONE, common forams, firm, sub blocky.
678	684	100	CALCAREOUS SILTSTONE: medium brownish grey-medium brown, argillaceous grading to CALCAREOUS CLAYSTONE, common forams, firm, sub blocky.
684	690	100	CALCAREOUS SILTSTONE: medium brownish grey-medium brown, argillaceous grading to CALCAREOUS CLAYSTONE, common glauconite, common forams, firm, sub blocky.
690	696	90	SANDSTONE: yellow orange-brown Fe stain, translucent, clear in part, fine to coarse predominantly medium, sub angular to predominantly sub round, trace very coarse fractured quartz grains, trace lithics, fine to poor sorting, trace forams, predominantly loose, good inferred porosity, no fluorescence.
		10	SILTSTONE: medium brownish grey-medium brown, argillaceous grading to CALCAREOUS CLAYSTONE, common forams, firm, sub blocky.
696	702	100	SANDSTONE: yellow orange brown Fe stain, translucent, clear in part, fine to coarse predominantly medium, sub angular to predominantly sub round, trace very coarse fractured quartz grains, trace lithics, fine to poor sorting, trace forams, predominantly loose clean quartz grains, good inferred porosity, no fluorescence.

Donth	Donth		
Depth From	Depth To	%	Lithology and Shows
(m) 702	(m) 708	100	SANDSTONE: yellow orange brown Fe stain, translucent, clear in part, fine to coarse predominantly medium, sub angular to predominantly sub round, trace very coarse fractured quartz grains, trace lithics, fine to poor sorting, trace forams, predominantly loose clean quartz grains, good inferred porosity, no fluorescence.
708	714	100	SANDSTONE: yellow orange brown Fe stain, translucent, clear in part, fine to coarse predominantly medium, sub angular to predominantly sub round, trace very coarse fractured quartz grains, trace lithics, poor sorting, trace forams, predominantly loose clean quartz grains, good inferred porosity, no fluorescence.
714	720	100	SANDSTONE: yellow orange brown Fe stain, translucent, clear in part, fine to coarse predominantly medium, sub angular to predominantly sub round, trace very coarse fractured quartz grains, trace lithics, poor sorting, trace forams, predominantly loose quartz grains, good inferred porosity, no fluorescence.
720	726	100	SANDSTONE: yellow orange brown Fe stain, translucent, clear in part, fine to coarse predominantly medium, sub angular to predominantly sub round, trace very coarse fractured quartz grains, trace lithic, poor sorting, trace forams, predominantly loose quartz grains, good inferred porosity, no fluorescence.
726	732	100	SANDSTONE: yellow orange brown Fe stain, translucent, clear in part, fine to coarse predominantly medium, sub angular to predominantly sub round, trace very coarse fractured quartz grains, trace lithic, poor sorting, trace forams, predominantly loose clean quartz grains, good inferred porosity, no fluorescence.
732	738	100	SANDSTONE: yellow brown Fe stain, translucent, clear in part, fine to coarse predominantly medium, sub angular to predominantly sub round, trace very coarse fractured quartz grains, trace lithic, poor sorting, trace forams, predominantly loose clean quartz grains, good inferred porosity, no fluorescence.
738	744	100	SANDSTONE: yellow orange brown Fe stain, translucent, clear in part, fine to coarse predominantly medium, sub angular to predominantly sub round, trace very coarse fractured quartz grains, trace lithic, poor sorting, trace forams, predominantly loose quartz grains, good inferred porosity, no fluorescence.

Depth	Depth		
From	To	%	Lithology and Shows
(m) 744	(m) 750	100	SANDSTONE: orange yellow- moderate brown Fe stain, occasionally clear - translucent medium-coarse, occasional very coarse fractured quartz grains, moderate sorted, sub angular, weak sideritic cement in part, trace lithics, loose clean quartz grains, good inferred porosity, no fluorescence.
750	756	100	SANDSTONE: predominantly orange yellow- moderate brown, Fe stain, occasionally clear-transparent medium-coarse, occasional very coarse fractured quartz grains, moderate sorted, sub angular, trace lithics, loose clean quartz grains, good inferred porosity, no fluorescence.
756	762	100	SANDSTONE: predominantly orange yellow- moderate brown, Fe stain, occasionally clear-transparent medium-coarse, occasional very coarse fractured quartz grains, moderate sorted, sub angular, weak sideritic cement in part, trace lithics, loose clean quartz grains, good inferred porosity, no fluorescence.
762	768	100	SANDSTONE: orange yellow- moderate brown Fe stain, occasionally clear-transparent medium-coarse, occasional very coarse fractured quartz grains, moderate sorted, sub rounded, weak sideritic cement in part, trace lithics, loose clean quartz grains, good inferred porosity, no fluorescence.
768	774	100	SANDSTONE: orange yellow- moderate brown Fe stain, occasionally clear-transparent medium-coarse, occasional very coarse fractured quartz grains, moderate sorted, sub angular, weak sideritic cement in part, trace lithics, loose clean quartz grains, good inferred porosity, no fluorescence.
774	780	100	SANDSTONE: orange yellow- moderate brown Fe stain, occasionally clear-transparent medium-coarse, occasional very coarse fractured quartz grains, moderate sorted, sub angular, weak sideritic cement in part, minor lithics, predominantly loose clean quartz grains, good inferred porosity, no fluorescence.
780	786	100	SANDSTONE: orange yellow- moderate brown, Fe stain, occasionally clear-transparent coarse grains, occasional very coarse fractured quartz grains, moderate sorted, sub angular, weak sideritic cement in part, minor lithics, loose clean quartz grains, good inferred porosity, no fluorescence.

Donth	Donth		
Depth From	Depth To	%	Lithology and Shows
(m)	(m)	70	Lithology and Shows
786	792	100	SANDSTONE: orange yellow to moderate brown Fe stained, common clear to translucent medium-coarse, occasional very coarse, moderate sorting, sub rounded, trace lithics, loose clean quartz grains, good inferred porosity, no fluorescence.
792	798	100	SANDSTONE: translucent quartz, occasional orange yellow to moderate brown Fe stain, fine-medium trace coarse grains, sub rounded, loose clean quartz grains, good inferred porosity, no fluorescence.
798	804	100	SANDSTONE: clear, translucent, common orange yellow to moderate brown Fe stain, predominantly medium, trace coarse grains, moderately well sorted, sub rounded, trace sideritic cement, rare to trace siliceous cement, rare nodular pyrite, loose clean quartz grains, good inferred porosity, no fluorescence.
804	810	100	SANDSTONE: clear to translucent, common orange yellow to moderate brown Fe stain, predominantly medium, trace coarse grains, moderately well sorted, angular to sub angular occasional sub rounded, trace sideritic cement, rare to trace siliceous cement, rare pyrite, loose clean quartz grains, good inferred porosity, no fluorescence.
810	816	100	SANDSTONE: clear, translucent, common orange yellow to moderate brown Fe stain, fine to coarse, predominantly fine to medium grains, fair sorting, sub rounded, loose clean quartz grains, good inferred porosity, no fluorescence.
816	822	100	SANDSTONE: clear, translucent, common orange yellow to moderate brown Fe stain, fine coarse predominantly fine to medium grains, trace lithics, well sorted, sub rounded, loose clean quartz grains, good inferred porosity, no fluorescence.
822	828	100	SANDSTONE: clear, translucent, trace orange yellow to moderate brown Fe stain, fine to medium, trace coarse grains, moderately sorted, sub round, trace very fine lithics, trace nodular pyrite, predominantly loose clean quartz grains, good inferred porosity, no fluorescence.
828	834	100	SANDSTONE: clear, translucent, trace orange yellow to moderate brown Fe stain, fine to medium, trace coarse grains, moderately sorted, sub round, trace very fine lithics, trace nodular pyrite, predominantly loose clean quartz grains, good inferred porosity, no fluorescence.

Depth	Depth		
From	To (m)	%	Lithology and Shows
(m) 834	(m) 840	100	SANDSTONE: clear, translucent, orange yellow, Fe stains, medium to coarse, occasionally very coarse grains, poor sorting, sub angular to sub rounded, trace nodular pyrite, loose clean quartz grain, good inferred porosity, no fluorescence.
840	846	100	SANDSTONE: clear, translucent, orange yellow, fine to medium grain, moderately sorted, sub rounded, rare lithics, loose clean quartz grain, good inferred porosity, no fluorescence.
846	852	100	SANDSTONE: clear, translucent, orange yellow, fine to medium grain, moderately sorted, sub rounded, rare lithics, loose clean quartz grain, good inferred porosity, no fluorescence.
852	858	100	SANDSTONE: clear, translucent, orange yellow, fine to medium grain, moderately sorted, sub rounded, rare lithics, loose clean quartz grain, good inferred porosity, no fluorescence.
858	864	100 trace	SANDSTONE: clear, translucent, rare orange yellow, fine to medium grain, moderately sorted, sub rounded, trace pyrite, loose clean quartz grain, good inferred porosity, no fluorescence. CLAYSTONE: greyish black, calcareous, soft to firm, sub blocky.
864	870	100	SANDSTONE: clear, translucent, fine to medium, moderately well to well sorted, sub rounded to sub angular in part, weak locally siliceous cement, rare nodular pyrite, loose and clean, good inferred porosity, no fluorescence.
870	876	90	SANDSTONE: clear, translucent, fine to medium, moderately well to well sorted, sub rounded to sub angular in part, weak locally siliceous cement, rare nodular pyrite, loose and clean, good inferred porosity, no fluorescence. CLAYSTONE: brownish black to dusky brown, slightly
			arenaceous, common carbonaceous, common disseminated pyrite, moderately hard, sub blocky to blocky.
876	882	90	SANDSTONE: clear, translucent, fine to medium, moderately well to well sorted, sub rounded to sub angular in part, weak locally siliceous cement, rare nodular pyrite, loose and clean, good inferred porosity, no fluorescence. CLAYSTONE: brownish black to dusky brown, slightly arenaceous, common carbonaceous, rare disseminated pyrite.
			arenaceous, common carbonaceous, rare disseminated pyrite, moderately hard, sub blocky to blocky.

Depth From (m)	Depth To (m)	%	Lithology and Shows
882	888	100	SANDSTONE: orange yellow to moderate brown Fe stained, clear, translucent, medium-coarse, occasional very coarse, moderate sorting, sub rounded, loose clean quartz grains, good inferred porosity, no fluorescence.
888	894	100	SANDSTONE: clear, translucent, orange yellow to moderate brown Fe stained, medium-coarse, occasional very coarse, moderate sorting, sub rounded, trace pyrite, loose clean quartz grains, good inferred porosity, no fluorescence.
894	900	90	SANDSTONE: clear, translucent, orange yellow to moderate brown Fe stained, medium-coarse, occasional very coarse, moderate sorting, sub rounded, trace pyrite, loose clean quartz grains, good inferred porosity, no fluorescence. CLAYSTONE: brownish black, brownish grey, slightly calcareous, trace carbonaceous specks, rare disseminated pyrite, soft to firm, sub-blocky.
900	906	90	SANDSTONE: clear, translucent, occasional yellow orange, fine to coarse, poor sorting, sub rounded, siliceous cement, common micro carbonaceous specks, rare pyrite, loose clean quartz, good inferred porosity, no fluorescence. CLAYSTONE: brownish black, brownish grey, slightly calcareous, rare carbonaceous specks, soft to firm, sub-blocky.
906	912	100	SANDSTONE: clear, transparent, fine, moderately to well sorted, sub rounded, rare carbonaceous specks, loose clean quartz, good inferred porosity, no fluorescence.
912	918	100	SANDSTONE: clear, transparent, fine, moderately to well sorted, sub rounded, trace carbonaceous specks, predominantly loose clean quartz, good inferred porosity, no fluorescence.
918	924	100	SANDSTONE: clear, transparent, fine, moderately to well sorted, sub rounded, rare carbonaceous specks, predominantly loose clean quartz grains, good inferred porosity, no fluorescence.
924	930	100	SANDSTONE: clear, transparent, fine to medium grained, moderately sorted, sub rounded, trace to common carbonaceous specks, rare pyrite, predominantly loose clean quartz, good inferred porosity, no fluorescence.

Depth From	Depth To	%	Lithology and Shows
(m)	(m)		
930	936	100	SANDSTONE: clear, transparent, fine to medium, moderately sorted, sub rounded, trace to common carbonaceous specks, rare pyrite, predominantly loose clean quartz grains, good inferred porosity, no fluorescence.
936	942	100	SANDSTONE: clear, transparent, fine to medium grained, moderately sorted, sub rounded, trace to minor carbonaceous specks, rare pyrite, predominantly loose clean quartz grains, good inferred porosity, no fluorescence.
942	948	100	SANDSTONE: clear, transparent, fine to medium, moderately sorted, sub rounded, trace carbonaceous specks, rare pyrite, loose clean quartz, good inferred porosity, no fluorescence.
948	954	100	SANDSTONE: clear-translucent, fine to very fine, well sorted, weak siliceous cement, trace lithics, trace fossil fragments, loose, good inferred porosity, no fluorescence.
954	960	100	SANDSTONE: clear, transparent, fine to medium, moderately sorted, sub rounded, trace to minor carbonaceous specks, rare pyrite, predominantly loose clean quartz, good inferred porosity, no fluorescence.
960	966	100	SANDSTONE: clear, translucent medium to coarse, sub-rounded to angular, occasionally very coarse rounded grains, poorly sorted, weak siliceous cement, rare glauconite, trace nodular pyrite, loose, clean, good inferred porosity, no fluorescence.
966	972	100	SANDSTONE: clear, translucent, medium to coarse, sub-rounded to angular, occasionally very coarse rounded grains, poorly sorted, weak siliceous cement, rare glauconite, trace nodular pyrite, loose, clean, good inferred porosity, no fluorescence.
972	978	100	SANDSTONE: clear, translucent, medium to coarse, sub-rounded to angular, occasionally very coarse rounded grains, poorly sorted, weak siliceous cement, rare glauconite inclusions, trace nodular pyrite, loose, clean, good inferred porosity, no fluorescence.
978	984	100	SANDSTONE: clear, translucent, fine to medium, sub-rounded to sub angular, moderately well sorted, weak siliceous cement, trace carbonaceous detritus, trace nodular pyrite, loose, clean, good inferred porosity, no fluorescence.

Depth	Depth		
From (m)	To (m)	%	Lithology and Shows
984	990	100	SANDSTONE: clear-translucent, fine to medium, sub-rounded to sub-angular, moderately well sorted, weak siliceous cement, trace carbonaceous detritus, trace nodular pyrite, loose, clean, good inferred porosity, no fluorescence.
990	996	100	SANDSTONE: clear, translucent, fine to medium, sub-rounded to sub-angular, moderately well sorted, weak siliceous cement, trace carbonaceous detritus, trace nodular pyrite, loose, clean, good inferred porosity, no fluorescence.
996	1002	100	SANDSTONE: clear, translucent, fine to medium, sub-rounded to sub-angular, moderately well sorted, weak siliceous cement, trace carbonaceous detritus, trace nodular pyrite, loose, clean, good inferred porosity, no fluorescence.
1002	1008	100	SANDSTONE: clear, translucent, pale grey, fine to coarse occasionally very coarse, sub rounded to angular, poorly sorted, weak siliceous cement, trace nodular pyrite, loose, clean, good inferred porosity, no fluorescence.
1008	1014	20 80	SANDSTONE: clear, translucent, light pale grey, fine to coarse occasionally very coarse, sub-rounded to angular, poorly sorted, weak siliceous cement, trace nodular pyrite, loose, clean, good inferred porosity, no fluorescence. CLAYSTONE: medium to dark brown, common carbonaceous specks and laminations, silty in part, firm to hard, sub-blocky to amorphous.
1014	1020	30 70	SANDSTONE: clear, translucent, pale grey, fine to coarse occasionally very coarse, sub rounded to angular, poorly sorted, weak siliceous cement, trace nodular pyrite, loose, clean, good inferred porosity, no fluorescence. CLAYSTONE: medium to dark brown, common carbonaceous specks and laminations, silty in part, sub-blocky to amorphous, firm to hard.
1020	1026	10 90	SANDSTONE: clear, translucent, light grey, fine to coarse occasionally very coarse, sub rounded to angular, poorly sorted, weak siliceous cement, trace nodular pyrite, loose, clean, good inferred porosity, no fluorescence. CLAYSTONE: brownish black to dusky brown, trace carbonaceous specks and laminations, trace disseminated pyrite, silty in part, sub blocky to amorphous, sticky and dispersive.

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Depth From	Depth To	%	Lithology and Shows
(m)	(m)	70	Lithology and Shows
1026	1032	90	SANDSTONE: clear, translucent, light grey, fine to coarse occasionally very coarse, sub rounded to angular, poorly sorted, weak siliceous cement, trace nodular pyrite, loose, clean, good inferred porosity, no fluorescence. CLAYSTONE: brownish black to dusky brown, trace carbonaceous specks and laminations, trace disseminated pyrite, silty in part, sub-blocky to amorphous, sticky and dispersive.
1032	1038	10 90	SANDSTONE: clear, translucent, light grey, fine- coarse occasionally very coarse, sub-rounded-angular, poorly sorted, weak siliceous cement, trace nodular pyrite, loose, clean, good inferred porosity, no fluorescence. CLAYSTONE: brownish black to dusky brown, trace
		4.00	carbonaceous specks and laminations, trace disseminated pyrite, silty in part, sub-blocky to amorphous, sticky and dispersive.
1038	1044	100	CLAYSTONE: brownish black to dusky brown, trace carbonaceous specks and laminations, trace disseminated pyrite, silty in part, sub blocky to amorphous, sticky and dispersive.
1044	1050	100	CLAYSTONE: brownish black to dusky brown, trace carbonaceous specks and laminations, trace disseminated pyrite, silty in part, sub blocky to amorphous, sticky and dispersive.
1050	1056	100	CLAYSTONE: brownish black to dusky brown, trace carbonaceous specks and laminations, trace disseminated pyrite, silty in part, sub blocky to amorphous, sticky, dispersive.
1056	1062	90	SANDSTONE: clear, translucent with rare Fe stain, fine to medium occasionally coarse, moderately sorted, sub rounded to sub angular, weak siliceous cement, trace nodular pyrite, rare glauconite, loose, clean, good inferred porosity, no fluorescence. CLAYSTONE: brownish black to dusky brown, trace carbonaceous specks and laminations, trace disseminated pyrite, silty in part, sub-blocky to amorphous, sticky and dispersive.
1062	1068	100 trace	CLAYSTONE: brownish black to dusky brown, trace carbonaceous specks and laminations, trace disseminated pyrite, silty in part, sub blocky to amorphous, sticky and dispersive. SANDSTONE: clear, translucent, fine to medium occasionally coarse, moderately sorted, sub rounded to sub angular, weak siliceous cement, trace nodular pyrite, rare glauconite, loose, clean, good inferred porosity, no fluorescence.

Depth From (m)	Depth To (m)	%	Lithology and Shows
1068	1074	100 trace	CLAYSTONE: brownish black to dusky brown, trace carbonaceous specks and laminations, trace disseminated pyrite, silty in part, sub blocky to amorphous, sticky and dispersive. SANDSTONE: clear, translucent, fine to medium occasionally coarse, moderately sorted, sub rounded to sub angular, weak siliceous cement, trace nodular pyrite, rare glauconite, loose, clean, good inferred porosity, no fluorescence.
1074	1080	100	CLAYSTONE: brownish black to dusky brown, trace carbonaceous specks and laminations, trace nodular and disseminated pyrite, silty in part, sub blocky to amorphous, sticky and dispersive.
1080	1086	100	CLAYSTONE: brownish black to dusky brown, trace carbonaceous specks and laminations, rare nodular and disseminated pyrite, silty in part, sub blocky to amorphous, sticky and dispersive.
1086	1092	80 20	CLAYSTONE: brownish black to dusky brown, trace laminations, trace nodular and disseminated pyrite, silty in part, sub blocky to amorphous, sticky and dispersive. SANDSTONE: clear, translucent, fine to medium, sub rounded to
			sub angular, moderately sorted, weak siliceous cement, loose quartz grains, fair inferred porosity, no fluorescence.
1092	1098	85	CLAYSTONE: brownish black to dusky brown, silty in part grading to argillaceous siltstone, trace carbonaceous specks, minor nodular and disseminated pyrite, trace glauconite, subblocky to amorphous, soft to dispersive.
		15	SANDSTONE: clear, translucent, white, fine to coarse predominantly medium grained, poor to fair sorting, sub rounded to sub angular, trace weak siliceous cement, trace silty matrix, trace nodular pyrite, predominantly loose quartz grains, fair inferred porosity, no fluorescence.
1098	1104	80	SANDSTONE: clear, translucent, white, fine to coarse predominantly medium, poor to moderate sorting, sub rounded to sub angular, trace weak siliceous cement, trace silty matrix, trace nodular pyrite, predominantly loose quartz grains, fair inferred porosity, no fluorescence.
		20	CLAYSTONE: brownish black to dusky brown, silty in part grading to argillaceous siltstone, trace carbonaceous specks, minor nodular and disseminated pyrite, trace glauconite, subblocky to amorphous, soft to dispersive.

Depth From	Depth To	%	Lithology and Shows
(m)	(m)		
1104	1110	90	SANDSTONE: clear, translucent, white, fine to coarse predominantly medium to coarse, poor to fair sorting, sub rounded to sub angular, trace weak siliceous cement, trace silty matrix, trace glauconite, trace nodular pyrite, predominantly loose quartz grains, fair inferred porosity, no fluorescence. SILTSTONE: brownish black to dusky brown, silty in part grading to argillaceous siltstone, trace carbonaceous specks, trace glauconite, sub blocky to amorphous, soft to dispersive.
1110	1116	100	SANDSTONE: clear, translucent, white, medium to very coarse, predominantly medium to coarse, poor to fair sorting, sub rounded to sub angular, rare siliceous cement, rare glauconite, rare pyrite, predominantly loose clean quartz grains, no fluorescence. SILTSTONE: as above
1116	1122	100	SANDSTONE: clear, translucent, white, predominantly medium to occasionally coarse, poor to fair sorting, sub rounded to sub angular, rare siliceous cement, rare pyrite, predominantly loose clean quartz grains, no fluorescence.
1128	1128	100	SANDSTONE: clear, translucent, white, fine to medium occasionally coarse grained, poor to fair sorting, sub rounded to sub angular, rare siliceous cement, rare pyrite, predominantly loose clean quartz grains, no fluorescence.
1128	1134	90	SANDSTONE: clear, translucent, white, fine to coarse grains, predominantly fine to medium, fair sorting, sub rounded to sub angular, rare siliceous cement, rare pyrite, predominantly loose clean quartz grains, no fluorescence. SILTSTONE: dark grey to olive black, argillaceous, grading to silty claystone, trace nodular and disseminated pyrite, trace glauconite, trace lithics, soft to dispersive, sub blocky.
1134	1140	100	SANDSTONE: clear, translucent, white, fine to coarse predominantly medium, moderate sorting, sub rounded to sub angular, rare siliceous cement, trace to rare glauconite, rare pyrite, predominantly loose clean quartz grains, good inferred porosity, no fluorescence. SILTSTONE: dark greenish grey, olive brown, argillaceous, grading to silty CLAYSTONE in part, trace nodular pyrite, trace very fine glauconite, trace fine grained lithics, soft to firm, dispersive in part, sub blocky.

Depth From	Depth To	%	Lithology and Shows
(m) 1140	(m) 1146	100	SANDSTONE: as above, fine to coarse predominantly medium grained.
		trace	SILTSTONE: as above
1146	1152	100	SANDSTONE: clear, translucent, white, very fine to predominantly medium to coarse, fair sorting, sub-angular to sub-rounded, trace siliceous cement, rare pyrite, minor glauconite, predominantly loose clean quartz grains, fair to good inferred porosity, no fluorescence. SILTSTONE: as above
1152	1158	60	SANDSTONE: clear, translucent, white, very fine to coarse, predominantly medium, fair to moderate sorting, sub angular to sub rounded, trace siliceous cement, rare pyrite, trace glauconite, predominantly loose clean quartz grains, fair to good inferred porosity, no fluorescence.
		40	SILTSTONE: medium to dark greenish grey, argillaceous grading to silty claystone, trace fine grained glauconite trace, nodular pyrite, firm, dispersive in part, sub blocky.
1158	1160	60 40	SANDSTONE: as above SILTSTONE: as above
1158	1164	60	SANDSTONE: clear, translucent, yellow grey in part, fine to coarse, poor sorting, sub rounded, weak siliceous cement, trace argillaceous matrix, trace nodular pyrite, predominantly loose, trace hard aggregates, poor to fair inferred porosity, no fluorescence.
		40	SILTSTONE: olive grey to olive brown, argillaceous, trace disseminated pyrite, rare micro carbonaceous specks, soft to predominantly firm, amorphous to sub blocky.
1164	1170	60	SANDSTONE: clear, translucent, yellow grey in part, fine to coarse, poor sorting, sub angular to angular, trace moderately strong siliceous cement, trace argillaceous matrix, rare nodular pyrite, predominantly loose, trace hard aggregates, poor inferred & visual porosity, no fluorescence.
		40	SILTSTONE: olive grey to olive brown, argillaceous, trace fine grained pyrite, rare micro carbonaceous specks, firm to occasionally soft, amorphous to sub blocky.

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Depth From	Depth To	%	Lithology and Shows
(m)	(m)	/0	Lithology and Shows
1170	1176	60	SANDSTONE: clear, translucent, rare yellow grey in part, fine to coarse, poor sorting, sub round, weak siliceous cement, trace argillaceous matrix, trace nodular pyrite, predominantly loose, trace hard aggregates, poor inferred & visual porosity, no fluorescence.
		40	SILTSTONE: olive grey to olive brown, argillaceous, trace to common disseminated pyrite, rare carbonaceous micro specks, firm to soft in part, amorphous to sub blocky.
1176	1182	40	SANDSTONE: clear, translucent, grey brown, fine to coarse, predominantly fine to medium, moderately sorted, sub round to sub angular, minor sub rounded, weak siliceous cement, minor brown grey argillaceous matrix, trace pyrite, trace lithics, loose, poor to fair inferred porosity, no fluorescence.
		60	SILTSTONE: olive grey to olive brown, argillaceous, trace to common disseminated pyrite, rare carbonaceous micro specks, firm to soft in part, amorphous to sub blocky.
1182	1188	70	SANDSTONE: clear, translucent, white, fine to medium trace coarse grains, moderately sorted, subangular to sub rounded, weak siliceous cement, trace pyrite, trace glauconite, trace lithics, trace moderately friable aggregates, predominantly loose, poor to fair inferred porosity, no fluorescence.
		30	SILTSTONE: olive grey, olive brown, argillaceous, trace disseminated pyrite, rare micro carbonaceous specks, firm to soft, amorphous to sub blocky.
1188	1194	60	SANDSTONE: clear, translucent, white, fine to coarse, predominantly fine to medium, moderately sorted, sub angular to sub rounded, weak siliceous cement, rare brown grey argillaceous matrix, rare nodular pyrite, trace lithics, loose, trace friable aggregates, fair inferred porosity, no fluorescence.
		40	SILTSTONE: olive grey to olive brown, predominantly arenaceous, occasionally argillaceous, minor glauconite, trace carbonaceous specks, soft, amorphous to sub blocky.
1194	1200	40	SANDSTONE: clear, translucent, white to light grey, fine to medium, trace coarse, fair sorting, sub angular to sub rounded, weak siliceous cement, trace to rare nodular pyrite, trace lithics, trace fine grained glauconite, predominantly loose, poor to fair inferred porosity, no fluorescence.
		60	SILTSTONE: olive black, olive brown, argillaceous, trace disseminated pyrite, soft, dispersive, sub blocky to amorphous.

Depth From	Depth To	%	Lithology and Shows
(m)	(m)		
1200	1206	30 70	SANDSTONE: clear, translucent, white to light grey, fine to medium, occasionally coarse, fair sorting, sub angular to sub rounded, weak siliceous cement, trace argillaceous matrix, trace to rare nodular pyrite, rare carbonaceous specks, trace lithics, trace fine grained glauconite, predominantly loose, poor to fair inferred porosity, no fluorescence. SILTSTONE: olive black, olive brown, argillaceous, trace disseminated pyrite, soft, dispersive, sub blocky to amorphous.
1207	1212	<i>(</i> 0	CANDSTONE
1206	1212	60 40	SANDSTONE: as above, fine to medium grained. SILTSTONE: as above
1212	1218	70	SANDSTONE: as above
1212	1210	30	SILTSTONE: als above SILTSTONE: olive black, olive brown, argillaceous, soft to firm, dispersive, sub-blocky to amorphous.
1218	1224	10	SANDSTONE: clear, translucent, white to light grey, fine to medium, fair sorting, sub angular to sub rounded, weak siliceous cement, trace argillaceous matrix, trace nodular pyrite, trace lithics, trace fine grained glauconite, predominantly loose, poor to fair inferred porosity, no fluorescence.
		90	SILTSTONE: olive black, olive brown, trace nodular pyrite, rare glauconite, very soft to firm, sub-blocky to amorphous.
1224	1230	20 80	SANDSTONE: as above with rare coarse grained quartz. SILTSTONE: olive black, olive brown, arenaceous, trace nodular pyrite, trace very fine glauconite, very soft to firm, friable in part, sub-blocky to amorphous.
1230	1236	90	SILTSTONE: olive black, olive brown, trace olive green, arenaceous, trace disseminated pyrite, very soft to firm, friable in
		10	part, sub blocky to amorphous. SANDSTONE: clear, translucent, white to light grey, fine to medium, fair sorting, sub angular to sub rounded, weak siliceous cement, trace argillaceous matrix, predominantly loose quartz grains, poor to fair inferred porosity, no fluorescence.
1236	1242	90	SILTSTONE: greyish black to dark greenish brown, argillaceous,
		10	minor modular pyrite, dispersive, soft to firm, amorphous. SANDSTONE: clear, translucent, white to light grey, very fine to medium, poor sorting, sub angular to sub rounded, trace siliceous cement, rare argillaceous matrix, trace lithics, predominantly loose quartz grains, poor to fair inferred porosity, no fluorescence.

Depth	Depth		
From	To	%	Lithology and Shows
<u>(m)</u>	(m)		
1242	1248	70 30	SILTSTONE: greyish black to dark greenish brown, argillaceous, trace nodular pyrite, dispersive, soft to firm, amorphous. SANDSTONE: clear, translucent, white to light grey, very fine to medium, poor sorting, sub angular to sub rounded, trace siliceous cement, rare argillaceous matrix, trace lithics, predominantly loose quartz grains, poor to fair inferred porosity, no fluorescence.
10.10		60	av manovn
1248	1254	60	SILTSTONE: as above
		40	SANDSTONE: as above
1254	1260	60	SILTSTONE: as above
		40	SANDSTONE: as above
1260	1266	70 30	SANDSTONE: clear, translucent, white to light grey, very fine to medium, poor to fair sorting, sub-angular to sub-rounded, rare argillaceous matrix, trace lithics, trace nodular pyrite, predominantly loose quartz grains, fair inferred porosity, no fluorescence. SILTSTONE: greyish black to dark greenish brown, argillaceous, trace nodular pyrite, dispersive, soft to firm, amorphous.
1266	1272	10 90	SANDSTONE: as above, poor to fair inferred porosity. SILTSTONE: dark grey to dark green, mottled in part, trace nodular pyrite, trace carbon specks, trace lithics, soft to dispersive, amorphous.
1272	1278	20	SANDSTONE: clear, translucent, white to light grey, very fine to medium, poor to fair sorting, sub angular to sub rounded, rare argillaceous matrix, trace kaolinite, trace lithics, trace nodular pyrite, predominantly loose quartz grain, fair inferred porosity, no fluorescence. SILTSTONE: dark grey to dark green, mottled in part, trace nodular pyrite, trace carbon specks, trace lithics, soft to
			dispersive, amorphous.
1278	1284	30 70	SANDSTONE: as above SILTSTONE: as above
1284	1290	80 20	SILTSTONE: as above SANDSTONE: as above, rare angular / shardy quartz fragments.

Depth From	Depth To	%	Lithology and Shows
(m)	(m)		<i>8i</i>
1290	1296	70	SILTSTONE: dark grey to dark green, mottled in part, arenaceous, trace nodular pyrite, trace carbon specks, trace lithics, soft to dispersive, amorphous.
		30	SANDSTONE: as above
1296	1302	70	SILTSTONE: as above
		30	SANDSTONE: as above
1302	1308	90	SILTSTONE: brownish grey to dark grey, arenaceous, rare to minor disseminated pyrite, soft to dispersive, amorphous.
		10	SANDSTONE: clear, translucent, white to light grey, very fine to medium quartz grains, fair sorting, sub angular to sub rounded, rare angular, weak siliceous cement, trace argillaceous matrix, rare kaolinitic matrix, rare nodular pyrite, predominantly loose quartz grains, poor to fair inferred porosity, no fluorescence.
1308	1314	100 trace	SILTSTONE: as above, rare disseminated pyrite. SANDSTONE: as above
1314	1320	100 trace	SILTSTONE: as above SANDSTONE: as above
1320	1326	90	SILTSTONE: brownish grey to dark grey, arenaceous, rare disseminated pyrite, soft to dispersive, amorphous. SANDSTONE: clear, translucent, white to light grey, very fine to medium grained, fair sorting, sub angular to sub rounded, weak siliceous cement, trace argillaceous matrix, rare nodular pyrite, predominantly loose quartz grains, poor to fair inferred porosity, no fluorescence.
1326	1332	90	SILTSTONE: dark olive grey to medium greenish grey, arenaceous, minor glauconite specks, trace carbonaceous specks, trace nodular pyrite, firm to moderately hard, sub blocky. SANDSTONE: clear, translucent, white to light grey, very fine to medium grained, fair sorting, sub-angular to sub-rounded, weak siliceous cement, trace argillaceous matrix, rare nodular pyrite, predominantly loose quartz grains, poor to fair inferred porosity, no fluorescence.
1332	1338	90	SILTSTONE: dark olive grey to medium greenish grey, arenaceous, minor glauconite, trace carbonaceous specks, trace nodular pyrite, firm to moderately hard, sub blocky.

Depth From (m)	Depth To (m)	%	Lithology and Shows
		10	SANDSTONE: clear, translucent, white to light grey, very fine to medium, fair sorting, sub-angular to sub-rounded, weak siliceous cement, trace argillaceous matrix, rare kaolinitic matrix, rare nodular pyrite, loose quartz grains, poor to fair inferred porosity, no fluorescence.
1338	1344	90	SILTSTONE: dark olive grey to medium greenish grey, arenaceous, minor glauconite, trace carbonaceous specks, trace nodular pyrite, firm to moderately hard, sub blocky. SANDSTONE: clear, translucent, white to light grey, very fine to medium quartz grains, fair sorting, sub-angular to sub-rounded, weak siliceous cement, argillaceous matrix, rare nodular pyrite, predominantly loose quartz grains, poor to fair inferred porosity, no fluorescence.
1344	1350	90	SILTSTONE: dark olive grey to medium greenish grey, arenaceous, minor glauconite specks, trace carbonaceous specks, trace nodular pyrite, firm to moderately hard, sub blocky. SANDSTONE: clear, translucent, white to light grey, very fine to medium quartz grains, fair sorting, sub-angular to sub-rounded, weak siliceous cement, trace argillaceous matrix, rare nodular pyrite, predominantly loose quartz grains, poor to fair inferred porosity, no fluorescence.
1350	1356	90	SILTSTONE: dark olive grey to medium greenish grey, arenaceous, minor to common glauconite specks, trace carbonaceous specks, trace nodular pyrite, firm to moderately hard, sub blocky. SANDSTONE: clear, translucent, white to light grey, very fine to medium, fair sorting, sub angular to sub rounded, rare angular, weak siliceous cement, trace argillaceous matrix, rare nodular pyrite, predominantly loose quartz grains, poor to fair inferred porosity, no fluorescence.
1356	1362	90	SILTSTONE: dark olive grey to medium greenish grey, arenaceous, minor glauconite, trace carbonaceous specks, trace nodular pyrite, firm to moderately hard, sub blocky. SANDSTONE: clear, translucent, white to light grey, very fine to medium quartz grains, fair sorting, sub-angular to sub-rounded, rare angular, weak siliceous cement, argillaceous matrix, rare kaolinitic matrix, rare nodular pyrite, loose quartz grains, poor to fair inferred porosity, no fluorescence.

Depth	Depth		
From	То	%	Lithology and Shows
(m)	(m)		
1362	1368	90	SILTSTONE: dark olive grey to medium greenish grey, arenaceous, minor glauconite, trace carbonaceous specks, trace nodular pyrite, firm to moderately hard, sub blocky. SANDSTONE: clear, translucent, white to light grey, very fine to medium, fair sorting, sub angular to sub rounded, rare angular, weak siliceous cement, trace argillaceous matrix, rare nodular pyrite, predominantly loose quartz grains, poor to fair inferred porosity, no fluorescence.
1368	1374	90	SILTSTONE: dark olive grey to medium greenish grey, arenaceous, minor to common glauconite specks, trace carbonaceous specks, trace nodular pyrite, firm to moderately hard, sub blocky.
		10	SANDSTONE: clear, translucent to light grey, very fine to medium quartz grains, fair sorting, sub angular to sub rounded, rare weak siliceous cement, rare argillaceous matrix, rare nodular pyrite, predominantly loose quartz grains, poor to fair inferred porosity, no fluorescence.
1374	1380	90	SILTSTONE: dark olive grey to medium greenish grey, arenaceous, minor glauconite, trace carbonaceous specks, trace nodular pyrite, firm to moderately hard, sub blocky.
1380	1386	10	SANDSTONE: clear, translucent, white to light grey, very fine to medium, fair sorting, sub angular to sub rounded, rare weak siliceous cement, trace argillaceous matrix, rare nodular pyrite, predominantly loose quartz grains, poor inferred porosity, no fluorescence.
1386	1392	90	SILTSTONE: moderately brown to light brown, argillaceous, trace carbonaceous specks, trace lithics, trace glauconite specks, trace nodular & disseminated pyrite, rare coarse quartz grains, soft to firm, sub blocky to amorphous.
		10	SANDSTONE: clear, translucent, very fine to medium occasionally very coarse, sub rounded to sub angular, poorly sorted, weak siliceous cement, rare silty matrix, minor glauconite, loose in part, poor inferred porosity, no fluorescence.
1392	1398	100	SILTSTONE: moderately brown to light brown, predominantly argillaceous, trace carbonaceous specks, trace lithics, trace glauconite specks & inclusions, trace nodular & disseminated pyrite, rare coarse quartz grains, soft to firm, sub blocky to amorphous.
1398	1404	100	SILTSTONE: as above

Depth From	Depth To	%	Lithology and Shows
(m)	(m)		
1404	1410		SILTSTONE: moderately brown to light brown, argillaceous, very finely arenaceous in part, trace micro carbonaceous specks, rare glauconite, trace nodular and disseminated pyrite, soft to firm, rare moderately hard, sub blocky to amorphous.
1410	1416	100	SILTSTONE: as above, olive brown.
1416	1422	100	SILTSTONE: as above, finely arenaceous with thin sandstone laminae.
1422	1428	100	SILTSTONE: as above, trace forams / micro corals (?).
1428	1434	100	SILTSTONE: as above, medium olive brown, argillaceous grading to silty claystone, trace micro carbonaceous specks, rare fine grained glauconite, trace nodular pyrite, firm, rare moderately hard, sub blocky to dispersive.
1434	1440	100	SILTSTONE: as above, olive brown.
1440	1446	20	SANDSTONE: clear, translucent, white, fine to medium, fair to moderate sorting, sub angular to predominantly sub-rounded, minor fine grain glauconite, trace nodular pyrite, predominantly loose, fair to good inferred porosity, no fluorescence. SILTSTONE: moderately brown to light brown, argillaceous, very fine arenaceous in part, trace micro carbonaceous specks, trace disseminated pyrite, soft to firm, rare moderately hard, sub blocky to amorphous.
1446	1452	90	SANDSTONE: clear, translucent, white, fine to medium quartz grains, fair to moderate sorting, sub angular to predominantly sub-rounded, trace fine grained glauconite, trace nodular pyrite, loose, fair to good inferred porosity, no fluorescence. SILTSTONE: moderately brown to light brown, predominantly argillaceous, very fine arenaceous in part, trace micro carbonaceous specks, trace disseminated pyrite, soft to firm, rare moderately hard, sub blocky to amorphous.
1452	1458	90 10	SILTSTONE: as above SANDSTONE: clear, translucent, white, fine to medium, fair to moderate sorting, sub-angular to predominantly sub-rounded, trace to rare fine grained glauconite, trace nodular pyrite, trace siliceous cement, predominantly loose, fair to good inferred porosity, no fluorescence.

Depth	Depth		
From	To	%	Lithology and Shows
(m)	(m)	, 0	Elithology and Shows
1458	1464	80	SILTSTONE: as above
		20	SANDSTONE: as above
1464	1470	80	SILTSTONE: as above
1404	14/0	20	SANDSTONE: as above
		20	SANDSTONE. as above
1470	1476	70	SILTSTONE: light brown to medium grey, argillaceous, very fine arenaceous in part, trace micro carbonaceous specks, trace disseminated pyrite, soft to firm, rare moderately hard, subblocky to amorphous.
		30	SANDSTONE: as above.
1476	1482	70	SILTSTONE: as above, light brown to medium grey, argillaceous, very fine arenaceous in part, trace micro carbonaceous specks, trace disseminated pyrite, soft to firm, rare
		30	moderately hard, sub-blocky to amorphous. SANDSTONE: as above.
1482	1488	90	SILTSTONE: moderately brown to light brown, argillaceous, very fine arenaceous in part, trace micro carbonaceous specks, trace disseminated pyrite, soft to firm, rare moderately hard, subblocky to amorphous.
		10	SANDSTONE: as above.
1488	1494	100 trace	SILTSTONE: as above. SANDSTONE: as above.
1494	1500	90	SILTSTONE: as above.
		10	SANDSTONE: as above, clear, translucent, white, fine to medium, fair to moderate sorting, sub-angular to predominantly sub-rounded, trace to rare fine grained glauconite, trace nodular pyrite, trace siliceous cement, predominantly loose, fair to good inferred porosity, no fluorescence.
1500	1506	90 10	SILTSTONE: as above. SANDSTONE: as above.

Depth	Depth		
From (m)	To (m)	%	Lithology and Shows
1506	1512	100	SILTSTONE: moderately brown to light brown, minor dark olive green, argillaceous, very fine arenaceous in part, trace micro carbonaceous specks, trace disseminated pyrite, very soft to firm, rare moderately hard, sub blocky to amorphous SANDSTONE: as above
1512	1518	80	SILTSTONE: brown to light brown, minor dark olive green, argillaceous, trace micro mica, soft to firm trace moderately hard, sub blocky to dispersive, trace sub fissile.
		20	SANDSTONE: clear, translucent, white light grey, fine to medium grain, moderate sorting, sub-angular to sub-rounded, moderately strong siliceous cement, trace nodular pyrite, rare fine grain glauconite, predominantly loose quartz, fair to good inferred porosity, no fluorescence.
1518	1524	70 30	SILTSTONE: as above. SANDSTONE: as above.
1524	1530	80 20	SILTSTONE: medium brown to light brown, minor dark olive green, finely arenaceous in part, trace micro mica, soft to firm trace moderately hard, sub-blocky to dispersive, trace sub fissile. SANDSTONE: clear, translucent, white light grey, very fine to medium grain, rare very coarse, moderate sorting, sub-angular to sub-rounded, weak to moderately strong siliceous cement, trace light-grey silty matrix, trace nodular pyrite, rare fine grain glauconite, predominantly loose quartz, fair inferred porosity, no fluorescence.
1530	1536	80 20	SILTSTONE: as above. SANDSTONE: as above.
1536	1542	90 10	SILTSTONE: as above. SANDSTONE: clear, translucent, white light grey, very fine to medium grain, moderate to fair sorting, sub-angular to sub-rounded, moderately strong siliceous cement, trace nodular pyrite, rare fine grain glauconite, predominantly loose quartz, fair inferred porosity, no fluorescence.
1542	1548	90 10	SILTSTONE: as above. SANDSTONE: as above.
1548	1554	100	SILTSTONE: as above, olive brown, medium brownish grey, argillaceous grading silty CLAYSTONE, minor fine grained glauconite, firm to occasionally moderately hard, sub blocky

Depth From (m)	Depth To (m)	%	Lithology and Shows
		trace	SANDSTONE: as above.
1554	1560	100	SILTSTONE: as above.
1560	1566	100	SILTSTONE: olive brown, medium brownish grey, argillaceous grading silty CLAYSTONE, minor fine grained glauconite, firm to occasionally moderately hard, sub blocky.
		trace	SANDSTONE: as above.
1566	1572	90 10	SILTSTONE: as above. SANDSTONE: clear, translucent, white light grey, very fine to fine, moderately well sorted, sub-angular to sub-rounded, moderate strong siliceous cement, trace nodular pyrite, minor fine-grained glauconite, predominantly loose quartz grains, fair inferred porosity, no fluorescence.
1572	1578	100 trace	SILTSTONE: as above. SANDSTONE: as above.
1578	1584	100	SILTSTONE: as above, olive brown, medium brownish grey, argillaceous grading silty CLAYSTONE, minor fine grained glauconite, firm to occasionally moderately hard, sub blocky.
1584	1590	100	SILTSTONE: as above, olive brown, medium brownish grey, argillaceous grading silty CLAYSTONE, minor fine grained glauconite, firm to occasionally moderately hard, sub blocky.
1590	1596	100	SILTSTONE: as above.
1596	1602	100	SILTSTONE: as above, olive brown, medium brownish grey, argillaceous grading silty CLAYSTONE, minor fine grained glauconite, firm to occasionally moderately hard, sub blocky.
		trace	SANDSTONE: generally as above.
1602	1608	100 trace	SILTSTONE: as above. SANDSTONE: as above.
1608	1614	90	SILTSTONE: olive brown, medium brownish grey, occasionally greenish grey, argillaceous grading to silty CLAYSTONE in part, minor fine-grained glauconite, firm to occasionally moderately hard, sub blocky.

Depth	Depth		
From	To	%	Lithology and Shows
(m)	(m)	1.0	
		10	SANDSTONE: light brownish grey, light brown, translucent to clear in part, fine grained trace medium to coarse grained, moderately well sorted, sub angular to sub rounded, moderately strong siliceous cement, minor light grey silty matrix, rare fine grained glauconite, moderately hard fine grained aggregates, very poor inferred porosity, no fluorescence.
1614	1620	90	SILTSTONE: olive brown, medium brownish grey, occasionally greenish grey, argillaceous grading to silty CLAYSTONE, minor fine grained glauconite, firm to occasionally moderately hard, sub blocky.
		10	SANDSTONE: light brownish grey, light brown, translucent, clear in part, fine grained, trace medium to coarse grained, moderately well sorted, sub angular to sub rounded, moderately strong siliceous cement, minor light grey silty matrix, rare fine grained glauconite, moderately hard fine grained aggregates, very poor inferred porosity, no fluorescence.
1620	1626	50	SANDSTONE: translucent, clear, white, fine to medium grained, trace coarse, sub angular to predominantly sub rounded, weak siliceous cement in part, predominantly loose quartz grains, good inferred porosity, no fluorescence. SILTSTONE: as above.
1626	1632	60 40	SILTSTONE: as above. SANDSTONE: as above, rare nodular pyrite.
1632	1638	70	SILTSTONE: olive brown, medium brownish grey, occasionally greenish grey, argillaceous grading to silty CLAYSTONE in part, minor fine grained glauconite, firm to occasionally moderately hard, sub blocky.
		30	SANDSTONE: translucent, clear, white, fine to medium grained, trace coarse, sub-angular to predominantly sub-rounded, moderately strong siliceous cement, predominantly loose quartz grains, good inferred porosity, no fluorescence.
1638	1644	90 10	SILTSTONE: as above. SANDSTONE: as above.
1644	1647	90	SILTSTONE: greyish brown, medium grey, argillaceous grading to silty CLAYSTONE in part, minor fine grained glauconite, firm to occasionally moderately hard, sub blocky.

Depth From	Depth To	%	Lithology and Shows	
<u>(m)</u>	(m)	10	SANDSTONE: translucent, clear, white, fine to medium grained, sub-angular to predominantly sub-rounded, moderately strong siliceous cement, predominantly loose quartz grains, good inferred porosity, no fluorescence.	
1647	1650	90	SILTSTONE: greyish brown, medium grey, argillaceous grading to silty CLAYSTONE in part, minor fine-grained glauconite, firm to occasionally moderately hard, sub blocky.	
		10	SANDSTONE: translucent, clear, white, fine to medium grained, sub-angular to predominantly sub-rounded, moderately strong siliceous cement in part, predominantly loose quartz grains, good inferred porosity, no fluorescence.	
1650	1653	100	SILTSTONE: dark olive grey, argillaceous, trace glauconite grains, trace carbonaceous inclusions, trace disseminated pyrite, firm, sub blocky to blocky.	
1653	1656	100	SILTSTONE: olive grey as above.	
1659	1662	100	SILTSTONE: as above.	
1662	1665	100	SILTSTONE: as above.	
1665	1668	100	SILTSTONE: dark olive grey, argillaceous, occasionally arenaceous grading to very fine sandstone, trace carbonaceous specks, trace lithics, minor glauconite, trace coarse quartz grains, firm, occasionally moderately hard, sub blocky.	
1668	1671	100	SILTSTONE: olive brown, generally as above.	
1671	1674	100	SILTSTONE: as above.	
1674	1677	100	SILTSTONE: as above.	
1677	1680	100	SILTSTONE: dark olive grey, argillaceous, occasionally arenaceous grading to very fine sandstone, trace carbonaceous specks, trace lithics, minor glauconite, trace coarse quartz grains, firm, occasionally moderately hard, sub blocky.	
1680	1683	100	SILTSTONE: dark olive grey, argillaceous, occasionally arenaceous grading to very fine sandstone, trace carbonaceous specks, trace lithics, minor glauconite, trace coarse quartz grains, firm, occasionally moderately hard, sub blocky.	

Dept h From (m)	Depth To (m)	%	Lithology and Shows
1683	1686	100	SILTSTONE: as above.
1686	1689	100	SILTSTONE: dark olive grey, argillaceous, occasionally arenaceous grading to very fine sandstone, trace carbonaceous specks, trace lithics, minor glauconite, trace coarse quartz grains, firm, occasionally moderately hard, sub blocky. SANDSTONE: light grey, very fine to fine, angular to sub round, moderately strong siliceous cement, common aggregates, trace glauconite, moderately hard, poor visual and inferred porosity, no
			fluorescence.
1689	1692	100	SILTSTONE: dark olive grey, argillaceous, occasionally arenaceous grading to very fine sandstone in part, trace carbonaceous specks, trace lithics, minor glauconite, rare loose coarse quartz grains, firm, occasionally moderately hard, sub
		trace	blocky. SANDSTONE: light grey, very fine to fine, angular to sub round, moderately strong siliceous cement, common aggregates, trace glauconite, moderately hard, poor visual and inferred porosity, no fluorescence.
1692	1695	100	SILTSTONE: dark olive grey, argillaceous, occasionally arenaceous grading to very fine sandstone in part, trace carbonaceous specks, trace lithics, minor glauconite, rare loose coarse quartz grains, firm, occasionally moderately hard, sub blocky.
		trace	SANDSTONE: light grey, very fine to fine, angular to sub round, moderately strong siliceous cement, common aggregates, trace glauconite, moderately hard, poor visual and inferred porosity, no fluorescence.
1695	1698	90	SILTSTONE: dark olive grey, argillaceous, occasionally arenaceous grading to very fine sandstone in part, trace carbonaceous specks, trace lithics, minor glauconite, rare loose coarse quartz grains, firm, occasionally moderately hard, sub blocky.
		10	SANDSTONE: light grey, very fine to fine, angular to sub round, moderately strong siliceous cement, common aggregates, trace glauconite, moderately hard, poor visual and inferred porosity, no fluorescence.

Depth	Depth		
From (m)	To (m)	%	Lithology and Shows
1698	1701	100	SILTSTONE: dark olive grey, argillaceous, occasionally arenaceous grading to very fine sandstone in part, trace carbonaceous specks, trace lithics, minor glauconite, firm, occasionally moderately hard, sub blocky.
1701	1704	100	SILTSTONE: dark olive grey, argillaceous, occasionally arenaceous grading to very fine sandstone in part, trace carbonaceous specks, trace lithics, minor glauconite, firm, occasionally moderately hard, sub blocky.
1704	1707	100	SILTSTONE: dark olive grey, argillaceous, occasionally arenaceous grading to very fine sandstone in part, trace carbonaceous specks, trace lithics, minor glauconite, firm, occasionally moderately hard, sub blocky.
1707	1710	100	SILTSTONE: as above
1710	1713	100	SILTSTONE: as above
1713	1716	100	SILTSTONE: as above, olive grey to olive brown, argillaceous, rare micro carbonaceous specks, trace very fine lithics, trace fine grained glauconite, firm to rarely moderately hard, sub blocky.
1716	1719	100	SILTSTONE: as above.
1719	1722	100	SILTSTONE: dark olive grey to medium grey, argillaceous, trace carbonaceous specks, trace lithics, trace glauconite, firm occasionally moderately hard, sub blocky.
1722	1725	100	SILTSTONE: as above.
1725	1728	100	SILTSTONE: as above, dark olive grey to medium grey, olive brown, argillaceous grading to claystone in part, trace fine carbonaceous specks, trace lithics, trace glauconite, firm occasionally moderately hard, sub blocky.
1728	1730	100	SILTSTONE: medium to dark olive grey to medium grey, olive brown, argillaceous, trace carbonaceous specks, trace lithics, trace glauconite, firm occasionally moderately hard, sub blocky.
			NOTE: Run 244mm (9 5/8") casing. Change mud system to Flo-Pro.

Depth From	Depth To	%	Lithology and Shows	
(m)	(m)			
1730	1734	100	SILTSTONE: medium to dark brown, olive brown, argillaceous, rare nodular pyrite, trace fine grained glauconite, trace micro carbonaceous specks, trace forams, firm to moderately hard, sub blocky.	
1734	1737	100	SILTSTONE: medium to dark brown, olive brown, as above.	
1737	1740	100	SILTSTONE: olive brown, medium to dark brown as above.	
1740	1743	100	SILTSTONE: as above, trace shell fragments (?), trace nodular pyrite, trace loose coarse sub rounded quartz grains.	
1743	1746	100	SILTSTONE: medium to dark brown, olive brown, argillaceous, trace nodular pyrite, trace fine grained glauconite, trace micro carbonaceous specks, firm to occasionally moderately hard, sub blocky.	
1746	1749	100	SILTSTONE: as above, rare nodular pyrite.	
1749	1752	90	SILTSTONE: medium to dark brown, olive brown, argillaceous, trace nodular pyrite, trace fine grained glauconite, trace micro carbonaceous specks, firm to occasionally moderately hard, sub blocky.	
		10	SANDSTONE: light grey, very light brownish grey, very fine grained, well sorting, grading to arenaceous SILTSTONE, sub angular to sub round, moderately strong calcareous cement, common light brownish grey argillaceous matrix, trace pyrite, trace glauconite, moderately hard, very poor visual porosity, no fluorescence.	
1752	1755	90	SILTSTONE: medium to dark brown, olive brown, argillaceous, trace nodular pyrite, trace fine grained glauconite, trace micro carbonaceous specks, firm to occasionally moderately hard, sub blocky.	
		10	SANDSTONE: light grey, very light brownish grey, very fine grained, well sorting, grading to arenaceous SILTSTONE, sub angular to sub round, moderately strong calcareous cement, common light brownish grey argillaceous matrix, trace pyrite, trace glauconite, moderately hard, very poor visual porosity, no fluorescence.	
1755	1758	50 50	SILTSTONE: as above. SANDSTONE: light brownish grey, very fine grained as above.	

Depth From (m)	Depth To (m)	%	Lithology and Shows
1758	1761	20 80	SILTSTONE: as above. SANDSTONE: translucent, clear, white, light grey in part, very fine to very coarse, sub angular to sub round, poor sorting, trace calcareous cement, rare siliceous cement, minor light grey silty matrix, trace nodular pyrite, trace fine glauconite grains, predominantly loose quartz grains, fair to good inferred porosity, no fluorescence.
1761	1764	10	SILTSTONE: medium brownish grey, light to medium grey, very finely arenaceous in part, trace very fine glauconite, firm, sub blocky.
		90	SANDSTONE: translucent, clear, white, light grey in part, trace yellow stain, fine to predominantly medium to very coarse, poor sorting, sub angular to sub round, trace weak siliceous cement, trace nodular pyrite, predominantly loose clean quartz grains, good inferred porosity, no fluorescence.
1764	1767	100	SANDSTONE: translucent, clear, white, very fine to very coarse predominantly medium to coarse, poor to fair sorting sub angular to sub round, trace white argillaceous matrix, trace nodular pyrite, predominantly loose clean quartz grains, good inferred porosity, no fluorescence.
1767	1770	100	SANDSTONE: translucent, clear, white, very fine to very coarse predominantly medium to coarse, poor to fair sorting sub angular to sub round, trace white argillaceous matrix, trace nodular pyrite, predominantly loose clean quartz grains, good inferred porosity, no fluorescence.
1770	1773	90	SANDSTONE: translucent, clear, white, fine to medium occasionally coarse – very coarse, fair sorting, sub angular to sub round, rare weak calcareous cement, minor off white argillaceous matrix, trace lithics, trace nodular pyrite, friable to predominantly loose, poor visual porosity in fine grained aggregates, no fluorescence.
		10	SILTSTONE: light to medium brownish grey, very fine arenaceous, firm to friable, sub blocky.

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Depth From	Depth To	%	Lithology and Shows
(m)	(m)		
1773	1776	20 80	SILTSTONE: light to medium grey, light to medium brownish grey, arenaceous grading to very fine SANDSTONE, rare carbonaceous flecks, friable to firm, sub blocky. SANDSTONE: white, translucent, clear, very fine to medium, occasionally coarse, poor to fair sorting, sub angular to sub round, common calcareous cement, common off white argillaceous matrix, trace lithics, trace nodular pyrite, friable aggregates, loose in part, poor to fair visual porosity, no fluorescence.
1776	1779	30 70	SILTSTONE: light to medium grey, light to medium brownish grey, arenaceous grading to very fine SANDSTONE, rare carbonaceous flecks, friable to firm, sub blocky. SANDSTONE: white, translucent, clear, very fine to medium, occasionally coarse, poor to fair sorting, sub angular to sub round, common calcareous cement, common off white argillaceous matrix, trace lithics, trace nodular pyrite, trace orange-brown dolomite fragments, friable aggregates, loose in part, poor to fair visual porosity, no fluorescence.
1779	1782	20 80	SILTSTONE: as above. SANDSTONE: as above, trace orange-brown dolomite fragments, increasing coarse quartz grains.
1782	1785	20 80	SILTSTONE: light to medium grey, light to medium brownish grey, arenaceous grading to very fine SANDSTONE, rare carbonaceous flecks, friable to firm, sub blocky. SANDSTONE: translucent, clear, white, fine to coarse, angular to sub round, poor sorting, moderately strong calcareous cement, common white argillaceous matrix, trace nodular pyrite, trace dolomite fragments, friable to moderately hard aggregates, loose in part, fair visual porosity, no fluorescence.
1785	1788	60	SILTSTONE: light to medium grey, light to medium brownish grey, arenaceous grading to and interbedded with fine grained sandstone, trace fine grained lithics, trace carbonaceous specks / flecks, trace very fine glauconite, friable to firm, sub blocky. SANDSTONE: white, very light grey, translucent, very fine to fine grained, trace medium, moderately strong calcareous cement, common off white very light brown argillaceous / silty matrix, trace nodular pyrite, trace carbonaceous flecks, friable to occasionally moderately hard, poor visual porosity, no fluorescence.

Depth From (m)	Depth To (m)	%	Lithology and Shows	
1788	1791	20	SILTSTONE: as above.	
		80	SANDSTONE: off white, very fine to fine grained, as above.	
1791	1794	40 60	SILTSTONE: as above, common glauconite. SANDSTONE: white, very light grey, translucent, very fine to fine grained, trace medium, moderately strong calcareous cement, common off white very light brown argillaceous / silty matrix, common fine grained glauconite, trace nodular pyrite, trace carbonaceous flecks, friable to occasionally moderately hard, poor visual porosity, no fluorescence.	
1794	1797	3070	SILTSTONE: light to medium grey, light to medium brownish grey, arenaceous grading to and interbedded with fine grained sandstone, trace fine grained lithics, trace carbonaceous specks / flecks, common glauconite, friable to firm, sub blocky. SANDSTONE: white, very light grey, translucent, very fine to fine grained, moderately strong calcareous cement, common off white- very light brown argillaceous / silty matrix, common fine grained glauconite, trace carbonaceous flecks, friable to occasionally moderately hard, poor visual porosity, no fluorescence.	
1797	1800	40 60	SILTSTONE: as above, light to medium grey, light to medium brownish grey, arenaceous grading to and interbedded with fine grained sandstone, trace fine grained lithics, minor carbonaceous specks / flecks, common glauconite, friable to firm, sub blocky. SANDSTONE: as above, white, very light grey, translucent, very fine to fine grained, moderately strong calcareous cement, common off white- very light brown argillaceous / silty matrix, common fine grained glauconite, rare carbonaceous flecks, friable to occasionally moderately hard, poor visual porosity, no fluorescence.	
1800	1803	80 20	SILTSTONE: as above, arenaceous. SANDSTONE: as above, grading to arenaceous siltstone.	
1803	1806	60 40	SILTSTONE: as above, arenaceous. SANDSTONE: as above, grading to arenaceous siltstone.	

Santos		

SECTION 2.2: CATALOGUE OF WELLSITE SAMPLES

Well Completion Report - Volume 1 Basic

SAMPLE MANIFEST

CLIENT: SANTOS WELL: CASINO-5 TD: 1806m MD

CONTAINER: 296

WASHED & DRIED CUTTINGS – 6 SETS IN PLASTIC BAGS

2 SETS: SANTOS (100 grams)
1 SET: A.W.E (100grams)
1 SET: MITSUI (100grams)
1 SET: DNRE (200grams)

1 SET: GEOSCIENCE (200 grams)

FREQUENCY 6m SAMPLES 660m – 1644m

3m SAMPLES 1644m – 1806m

SANTOS (2 SETS)----- 2 boxes

Box	#	From (m)	To (m)
	1	660	1038
1	2	1038	1368
	3	1368	1650
	4	1650	1806

A.W.E.---- 1 box

Box	#	From (m)	To (m)
	1	660	1038
1	2	1038	1368
1	3	1368	1650
	4	1650	1806

MITSUI-----1 box

Box	#	From (m)	To (m)
	1	660	1038
1	2	1038	1368
1	3	1368	1650
	4	1650	1806

DNRE-----2 boxes

Box	#	From (m)	To (m)
	1	660	882
1	2	882	1092
1	3	1092	1296
	4	1296	1494

Box	#	From (m)	To (m)
	5	1494	1659
2	6	1659	1752
2	7	1752	1806

GEOSCIENCE-----2 boxes

Box	#	From (m)	To (m)
	1	660	882
1	2	882	1092
1	3	1092	1296
	4	1296	1494

Box	#	From (m)	To (m)
	5	1494	1659
2	6	1659	1752
2	7	1752	1806

SAMPLEX TRAYS - 3 SETS FOR SANTOS

2 Boxes: 660m to 1806m TD

MUD SAMPLES FOR SANTOS

1Box: Contains 2 x 1L Samples taken at 1730m (KCl/Polymer) & 1806m (Flo-Pro)

SUMMARY:

NUMBER OF BOXES: WASHED & DRIED: 8

SAMPLEX TRAYS: 2

MUD SAMPLES: 1

TOTAL NUMBER OF BOXES: 11

SECTION 3: WIRELINE LOGGING REPORTS

Wireline logs were not conducted at the Casino 5 location.

SECTION 3.1: LWD END OF WELL REPORT (Sperry Sun)



HALLIBURTON

Sperry Drilling Services

LWD End of Well Report

for

Santos Ltd

Casino - 5

Rig: Ocean Patriot

Field: Casino

Country: Australia

Job No: AU -FE -0003530537

Date: 16th June 2005



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- 1. General Information
- 2. Operational Overview
- 3. Summary of MWD Runs
- 4. Bitrun Summary
- 5. Directional Survey Data
- 6. Service Interrupt Report

HALLIBURTON

Sperry Drilling Services

General Information

Company: Santos Ltd

Rig: Ocean Patriot

Well: Casino-5
Field: Casino
Country: Australia

API Number:

Sperry-Sun Job Number: AU-FE-0003530537

Job start date: 16-Jun-05 Job end date: 28-Jun-05

North reference: Grid

Declination: 10.897 deg

Dip angle: -69.993 deg

Total magnetic field: 60893 nT

Date of magnetic data: 17-Jun-05

Wellhead coordinates N: 38 deg. 47 min 43.680 sec South Wellhead coordinates E: 142 deg. 44 min 44.600 sec East

Vertical section direction: Closure deg

MWD Engineers: A.Rule J.Nicolson

B.Cooper

Company Representatives: R.Buitenhuis C.Wise

R.King

Company Geologist: J.Pitman
Lease Name: Vic P-44
Unit Number: 197

State: Victoria

County:



Operational Overview

Sperry Drilling Services, a division of Halliburton, were contracted by Santos Ltd to provide Surveying and Logging While Drilling (LWD) services on the well, Casino-5, located in the Bass Strait, offshore Victoria.

914mm (36") Open Hole Section Sperry tools were not run in the 36" hole section.

445mm (17½") Open Hole Section
An Electronic Multishot (EMS) was dropped at section TD - 665.0 mMDRT.

311mm (121/4") Open Hole Section

The hole section was drilled with a rotary assembly and logging while drilling (LWD) tools to provic realtime and recorded drilling and formation evaluation data. The tools incorporated a positive pulser, Position Module (PM), Dual Gamma Ray (DGR), Electromagnetic Wave Resistivity (EWR) and Drillstring Dynamics Senor (DDS) to monitor downhole vibration.

The section was drilled in three bit runs to 1730.0 mMDRT.

216mm (8½") Open Hole Section

The section was drilled in one bit run through the reservoir. The hole was logged with a LWD tool that incorporated a positive pulser, DGR, EWR, Directional Module (DM) and Pressure While Drilling (PWD).

The well was drilled to a total depth of 1806.0 mMDRT.

Summary of MMD runs

Run No.	Bit No.	Hole Size (mr	MWD Service n)		End Dril Depth Dis (m)		Run Start Date Time	Run End Date Time	BRT (Oper. Ci Hrs. Hr	rc. °s.	Max. Temp. (degC)	Serv. Ti Int. M	ip for Fa WD Ty	ilure /pe
0200	3	311.00	DIR-FE	665.00	1160.00	495.00	22-Jun-05 05:41	23-Jun-05 21:25	39.73	39.73	32.13	49.40	Yes	No	Vibration
0300	4	311.00	DIR-FE	1160.00	1392.00	232.00	24-Jun-05 04:44	25-Jun-05 09:27	28.72	28.72	19.14	68.00	No	No	
0400	5	311.00	DIR-FE	1392.00	1730.00	338.00	25-Jun-05 09:51	26-Jun-05 16:39	30.79	30.79	15.18	71.00	No	No	
0500	6	216.00	DIR-FE	1730.00	1806.00	76.00	28-Jun-05 05:50	29-Jun-05 11:02	29.19	29.19	11.57	73.00	No	No	
									,			,			
				TOTALS	⇒	1141.00			128.44	128.43	78.02		1	0	



Bitrun Summary

Rui	n Time Data	Drilling	Data			Mu	ud Data		
MWD Run :	0200	Start Depth:	665.00	m	Mud Type :	KCI / Po	olymer		
Rig Bit No:	3	End Depth :	1160.00) m	Weight / Visc :	1.22	sg /	55.00	spqt
Hole Size :	311.00 mm	Footage :	495.00	m	Chlorides:	42000	ppm		
Run Start :	22-Jun-05 05:41	Avg. Flow Rate:	990	gpm	PV / YP :	15.00	cp /	26.00	lhf2
Run End:	23-Jun-05 21:25	Avg. RPM:	121	rpm	Solids/Sand:	9	% /	1	%
BRT Hrs :	39.73	Avg. WOB:	15.90	klb	%Oil / O:W:	0	% /	N/A	
Circ. Hrs:	32.13	Avg. ROP:	24.90	m/hr	pH/Fluid Loss:	9.00	pH /	4.80	mptm
Oper. Hrs :	39.73	Avg. SPP:	1865	psig	Max. Temp. :	49.40	degC	;	
MWD	Schematics				BHA Schema	tics			
(5)			Comp	onent			Length	O.D.	I.D.
(5)		(11)					(m)	(mm)	(mm)
(4)		(10)							
Ш		(9)							
(3)		(8)							
	5. Mk8 Positive Pulser	(7)	11. H	HWDP			138.37	203.000	76.000
	SN: 8189			Cross Ove	or Sub		1.09	203.000	
(2)		(6)							
	4. PM SN: 134019		09. [Orill Collar	•		17.90	202.000	76.000
- 11	16.13 m From Bit	(5)	08.	Orilling Ja	rs		9.20	203.000	76.000
- 1111 -	3. HCIM	(5)	07.	Orill Collar			88.99	200.000	73.000
- 11	SN: 91232		06. N	NM Pony (Collar		2.93	206.000	68.000
(1)		(4)		MWD			13.16	203.000	
	2. DGR & DDS SN: 132474	(3)	04. I	ntegral Bl	ade Stabilizer		2.08	203.000	75.000
	12.75 m From Bit			Orill Collar			3.04	203.000	71.000
1101	1. EWR-P4	(2)	02. I	ntegral Bl	ade Stabilizer		2.11	203.000	76.000
***	SN: 144719 9.72 m From Bit	(1)		•	04BDV CPS			311.000	
	Co	nments				MWD) Perfo	rmance	
High vibration	, tool stopped pulsing at 952.		/ice		Tool OD / Type				4M
•	ort). Drilled to planned bit trip	,			MWD Real-time		00 %	6	
	a recovered at surface.	•			MWD Recorded	l%: 97.0	00 %	6	
					Min. Inc. :	0.50	6 d	leg / 7'	12.41 m
					Max. Inc. :	5.7		ŭ	067.61 m
					Final Az.:	243		leg	
					Max Op. Press.	: 201		•	



Bitrun Summary

R	Run Time Data	Drilling	g Data			Μι	ıd Data		
MWD Run :	0300	Start Depth:	1160.00) m	Mud Type :	KCI / Po	olymer		
Rig Bit No:	4	End Depth :	1392.00) m	Weight / Visc:	1.22	sg /	49.00	spqt
Hole Size :	311.00 mm	Footage :	232.00	m	Chlorides:	45000	ppm		
Run Start :	24-Jun-05 04:44	Avg. Flow Rate:	988	gpm	PV / YP :	11.00	cp /	26.00	Ihf2
Run End:	25-Jun-05 09:27	Avg. RPM:	146.	rpm	Solids/Sand:	10	% /	0.5	%
BRT Hrs :	28.72	Avg. WOB:	9.50	klb	%Oil / O:W:	0	% /	N/A	
Circ. Hrs :	19.14	Avg. ROP:	15.50	m/hr	pH/Fluid Loss:	8.40	pH /	5.00	mptm
Oper. Hrs :	28.72	Avg. SPP :	2956	psig	Max. Temp. :	68.00	degC		
MW	/D Schematics				BHA Schemat	ics			
(E)		=	Comp	onent			Length	O.D.	I.D.
(5)		(11)					(m)	(mm)	(mm)
		H H							
(4)		(10)							
- 11		(9)							
- 11									
- 11									
- 111		(8)							
(3)									
- 11		Ш							
- 11	E. MkO Docitive Dulger	(7)							
- 11	5. Mk8 Positive Pulser SN: 8298		11. F	HWDP			138.37	203.000	76.000
(2)	OIV. 0230	(6)	10. C	Cross Ove	er Sub		1.09	203.000	75.000
(-)	4. PM	(6)	09. E	Orill Collar			17.90	202.000	76.000
1101	SN: 143272		08. E	Drilling Jai	re		9.20	203.000	76.000
	16.26 m From Bit	(5)		•					
1101	3. HCIM		07. C	Orill Collar			62.27	200.000	73.000
	SN: 161828		06. N	NM Pony (Collar		2.93	206.000	68.000
(1)	2. EWR-P4	(4)	05. N	J WD			12.90	203.000	76.000
- 11	SN: 205859	(3)	04. Ir	ntegral Bl	ade Stabilizer		2.08	203.000	75.000
- 11	11.27 m From Bit		03. E	Orill Collar			3.04	203.000	71.000
- 11	1. DGR	(2)	02. lr	ntegral Bl	ade Stabilizer		2.11	203.000	76.000
	SN: 10505500 8.97 m From Bit	(1)		Smith MA			0.52	311.000	76.000
	Co	mments				MWD	Perfor	mance	
Drilled to 13	392.0 mMDRT. Pulled out to cha				Tool OD / Type:	203		nm / P4	М
ווויסו וט וט	JOZ.O MINIDIXT. I UNIGU OUL LO ONO	ange the bit.			MWD Real-time%				
					MWD Recorded%				
					Min. Inc. :	3.00)6.82 m
					Max. Inc. :	5.74		·	67.61 m
					Final Az. :	252		eg	
					Max Op. Press. :			sig	
					3p 100011		- P	- '9	



Bitrun Summary

F	Run Time Data	Drilling	Data			М	ud Data		
MWD Run :	0400	Start Depth:	1392.00) m	Mud Type :	KCI / P	olymer		
Rig Bit No:	5	End Depth :	1730.00) m	Weight / Visc :	1.22	sg /	49.00	spqt
Hole Size :	311.00 mm	Footage :	338.00	m	Chlorides:	46000	ppm		
Run Start :	25-Jun-05 09:51	Avg. Flow Rate:	940	gpm	PV / YP :	14.00	cp /	36.00	lhf2
Run End:	26-Jun-05 16:39	Avg. RPM:	162	rpm	Solids/Sand:	10	% /	0.5	%
BRT Hrs :	30.79	Avg. WOB:	11.60	klb	%Oil / O:W:	0	% /	N/A	
Circ. Hrs:	15.18	Avg. ROP:	46.30	m/hr	pH/Fluid Loss:	7.90	pH /	4.50	mptm
Oper. Hrs :	30.79	Avg. SPP:	3204	psig	Max. Temp. :	71.00	degC	;	
MW	VD Schematics				BHA Schema	tics			
(=)			Comp	onent			Length	O.D.	I.D.
(5)		(11)					(m)	(mm)	(mm)
		H							
(4)		(10)							
- 11		(9)							
- 11									
- 11									
- 111		(8)							
(3)									
- 11		<u> </u>							
- 11	5. Mk8 Positive Pulser	(7)							
- 11	SN: 8298		11. H	HWDP			138.37	203.000	76.000
(2)		(6)	10. (Cross Ove	er Sub		1.09	203.000	75.000
	4. PM		09.	Orill Collar	•		17.90	202.000	76.000
7100	SN: 143272		08. [Drilling Jai	'S		9.20	203.000	76.000
1101	16.06 m From Bit	(5)		-					
1101	3. HCIM			Orill Collar			62.27	200.000	73.000
	SN: 161828		06. [Orill Collar	•		2.93	206.000	68.000
(1)	2. EWR-P4	(4)	05. N	MWD			12.90	203.000	76.000
- 11	SN: 205859	(3)	04. I	ntegral Bl	ade Stabilizer		2.08	203.000	75.000
- 11	11.07 m From Bit		03.	Orill Collar			3.04	203.000	71.000
- 11	1. DGR	(2)	02. I	ntegral Bl	ade Stabilizer		2.11	203.000	76.000
	SN: 10505500 8.77 m From Bit	(1)		Ū	SX104HGWA5 (I	PDC)		311.000	75.000
	Co	l mments			`		D Perfo	rmance	
Drilled 311r	mm (12¼") hole to section TD a				Tool OD / Type :			nm / P4	M
ווופט אוווים ן	11111 (12/4) HOIG TO SCUTOH ID A	CTOO.UTIIVIDINT.			MWD Real-time				
					MWD Recorded				
					Min. Inc. :	5.1			7.53 m
					Max. Inc. :	6.3		•	93.36 m
					Final Az. :			leg	
					Max Op. Press.			sig	
					2,7		- P	-	



Bitrun Summary

Run Time Data	Drillin	g Data			Muc	d Data		
MWD Run: 0500	Start Depth:	1730.00	m	Mud Type :	Flo Pro			
Rig Bit No: 6	End Depth :	1806.00	m	Weight / Visc:	1.24	sg /	50.00	spqt
Hole Size: 216.00 mm	Footage:	76.00	m	Chlorides:	148000	ppm		
Run Start : 28-Jun-05 05:50	Avg. Flow Rate:	662	gpm	PV / YP :	14.00	cp /	32.00	lhf2
Run End: 29-Jun-05 11:02	Avg. RPM:	112	rpm	Solids/Sand:	14	% /	0.25	%
BRT Hrs: 29.19	Avg. WOB:	4.50	klb	%Oil / O:W:	0	% /	N/A	
Circ. Hrs: 11.57	Avg. ROP:	20.50	m/hr	pH/Fluid Loss:	9.70	pH /	5.00	mptm
Oper. Hrs: 29.19	Avg. SPP:	2253	psig	Max. Temp. :	73.00	degC		
MWD Schematics				BHA Schemat	ics			
(7)	(0)	Compo	onent		L	ength.	O.D.	I.D.
(7) (6)	(8)				(1	m)	(mm)	(mm)
7. Mk8 Positive Pulser SN: 8298	(7)							
(5) 6. DM SN: 180031								
(4) 18.90 m From Bit 5. HCIM SN: 093281	(6)							
(3) 4. PWD	(5)	09. H	WDP		•	138.37	162.000	78.000
SN: 159816		08. Dr	ill Collar	r		18.56	171.000	71.000
14.90 m From Bit	(4)	07. Dr	illing Ja	rs		9.24	165.000	70.000
3. EWR-P4 (2) SN: 138389			ŭ					
12.37 m From Bit			ill Collar				171.000	71.000
2. DGR	(3)	05. In	tegral Bl	ade Stabilizer		1.78	170.000	71.000
SN: 126021		04. M	WD			15.60	171.000	73.000
(1) 10.03 m From Bit		03. Po	ony colla	ır		5.04	170.000	70.000
1. Contingency Sub SN: CS002	(2)	02. In	tegral Bl	ade Stabilizer		2.40	167.000	90.000
SIV. C0002	(1)	01. Hy	/calog D	SX104 (PDC)		0.23	216.000	50.000
C	omments				MWD	Perfor	mance	
Drilled to hole TD at 1806.0 mMDRT.				Tool OD / Type :	171.0	00 m	m / P4	М
				MWD Real-time%	6: 100.0	00 %	•	
				MWD Recorded%	%: 100.0	00 %)	
				Min. Inc. :	5.66	de	J	33.40 m
				Max. Inc. :	6.14		eg / 173	34.43 m
				Final Az. :	250.4		eg	
				Max Op. Press. :	3190	ps	sig	



Directional Survey Data

Measured Depth	Inclination	Direction	Vertical Depth	Latitude	Departure	Vertical Section	Dogleg
(metres)	(degrees)	(degrees)	(metres)	(metres)	(metres)	(metres)	(deg/30m)
89.70	0.00	0.00	89.70	0.00 N	0.00 E	0.00	TIE-IN
153.32	0.87	155.19	153.32	0.44 S	0.20 E	-0.44	0.41
180.77	0.73	150.88	180.76	0.78 S	0.38 E	-0.78	0.17
236.21	1.06	149.10	236.20	1.53 S	0.81 E	-1.53	0.18
263.92	1.31	159.82	263.90	2.05 S	1.05 E	-2.05	0.36
292.77	1.22	161.34	292.75	2.65 S	1.26 E	-2.65	0.10
321.46	1.16	161.70	321.43	3.21 S	1.45 E	-3.21	0.06
350.14	1.12	162.94	350.10	3.76 S	1.63 E	-3.76	0.05
378.70	1.03	165.33	378.66	4.27 S	1.77 E	-4.27	0.11
407.39	0.99	169.70	407.34	4.76 S	1.88 E	-4.76	0.09
436.08	0.89	162.06	436.03	5.22 S	2.00 E	-5.22	0.17
464.75	0.86	161.47	464.70	5.64 S	2.13 E	-5.64	0.03
493.60	0.87	164.24	493.54	6.05 S	2.26 E	-6.05	0.04
522.35	0.23	169.75	522.29	6.32 S	2.33 E	-6.32	0.67
551.14	0.52	129.89	551.08	6.46 S	2.44 E	-6.46	0.39
579.90	0.54	127.68	579.84	6.63 S	2.65 E	-6.63	0.03
608.62	0.51	119.52	608.56	6.77 S	2.87 E	-6.77	0.08
636.96	0.54	120.09	636.90	6.90 S	3.09 E	-6.90	0.03
652.27	0.52	118.09	652.21	6.97 S	3.22 E	-6.97	0.05
712.41	0.56	146.86	712.34	7.34 S	3.62 E	-7.34	0.13
741.29	1.28	173.83	741.22	7.78 S	3.73 E	-7.78	0.85
800.77	1.61	179.35	800.68	9.27 S	3.81 E	-9.27	0.18
858.08	1.58	236.40	857.97	10.51 S	3.16 E	-10.51	0.80
915.48	4.81	243.64	915.31	11.91 S	0.93 E	-11.91	0.01
891.65	3.06	238.12	891.51	11.24 S	2.01 E	-11.24	1.33
1006.82	3.06	237.46	1006.52	14.52 S	3.19 W	-14.52	0.01
1067.61	5.74	249.44	1067.13	16.46 S	7.41 W	-16.46	1.39
1150.27	5.53	253.03	1149.39	19.08 S	15.08 W	-19.08	0.15
1178.55	5.52	254.47	1177.54	19.84 S	17.70 W	-19.84	0.15
1207.09	5.50	252.55	1205.94	20.61 S	20.33 W	-20.61	0.20
1294.00	5.38	250.68	1292.46	23.21 S	28.15 W	-23.21	0.07
1322.59	5.29	252.03	1320.93	24.06 S	30.67 W	-24.06	0.16
1351.22	5.31	252.31	1349.44	24.87 S	33.19 W	-24.87	0.03
1377.53	5.17	251.91	1375.64	25.61 S	35.47 W	-25.61	0.16
1406.19	5.23	251.21	1404.18	26.43 S	37.94 W	-26.43	0.09
1434.97	5.43	251.49	1432.83	27.29 S	40.47 W	-27.29	0.21
1463.79	5.42	253.43	1461.52	28.11 S	43.07 W	-28.11	0.19
1492.55	5.42	251.34	1490.16	28.93 S	45.66 W	-28.93	0.21
1521.49	5.55	253.59	1518.96	29.76 S	48.29 W	-29.76	0.26
1550.14	5.55	251.90	1547.48	30.58 S	50.94 W	-30.58	0.17



Directional Survey Data

Measured Depth	Inclination	Direction	Vertical Depth	Latitude	Departure	Vertical Section	Dogleg
(metres)	(degrees)	(degrees)	(metres)	(metres)	(metres)	(metres)	(deg/30m)
1607.59	5.88	251.40	1604.64	32.39 S	56.37 W	-32.39	0.17
1636.21	5.89	252.97	1633.11	33.28 S	59.16 W	-33.28	0.17
1664.65	6.20	254.05	1661.39	34.13 S	62.03 W	-34.13	0.35
1693.36	6.37	251.89	1689.93	35.05 S	65.04 W	-35.05	0.30
1712.40	6.06	251.82	1708.86	35.70 S	67.00 W	-35.70	0.48
1734.43	6.14	252.76	1730.77	36.41 S	69.23 W	-36.41	0.17
1763.18	5.90	251.71	1759.36	37.33 S	72.10 W	-37.33	0.28
1783.40	5.66	250.49	1779.47	37.99 S	74.03 W	-37.99	0.40
1806.00	5.66	250.49	1801.96	38.73 S	76.13 W	-38.73	0.00



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 CLOSURE OF 243.15 DEGREES (GRID)

A TOTAL CORRECTION OF 11.99 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED

HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.

HORIZONTAL DISPLACEMENT(CLOSURE) AT 1820.00 METRES

IS 86.78 METRES ALONG 243.15 DEGREES (GRID)

RT to LAT = 21.5 m. Final survey projected to TD



Service Interrupt Report

MWD run number :	0200	Time/Date of Failure:	25-Jun-05 03:31
Rig Bit Number :	3	Depth at time of Failure :	952.00 m
MWD Run start time/date :	22-Jun-05 05:41	Lost Rig Hours:	4.00
MWD Run end time/date :	23-Jun-05 21:25		
Rig Activity			
Drilling 311mm (121/4") hole.			
Description of Failure			
Tool stopped pulsing.			
roor stopped pursing.			
Action Taken			
Toggled tool and adjusted flow	rates in an attempt to re-establish	h detection.	
Occupation because			
Operation Impact			
Drilled to planned bit trip deptr	n with no surveys and FE data. Re	ecorded FE data was recovered a	at surface.
Reason for Failure			
	S. CIM hanger and hard connect	failed insulation test on surface.	Pulser failed the running
rig test.	2. G. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.		

SECTION 4: PRODUCTION TEST REPORT (Expro)

A clean up production data report only is presented. A well test was not conducted.





Well Site Test Report

Well No. Casino 5

Test No. Completion

Location Ocean Patriot

Dates From/To 03/07/05 - 05/07/05

Country Australia

Field Casino

Formation Waarre C Sands

Exal Engineer J. Morrison / B. Tupman

Expro Supervisor F. Beaton

Client Engineer R. King / M. Andronov / P. Nardone

Perforations Expandable Sand Screens

Report Approved By (CHS) :	Date :
Report Approved By (Welltest) :	Date :





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1	Introduction
2	Sequence of Events
	EDGE Data
3	Clean Up Data Listing
4	Cartesian Plots
5	Gas Calculation Listing
	Additional Information
6	Data Disk / Information Sheets





Introduction

Expro Cased Hole Services (Electrical) provided the surface data acquisition package for the completion cleanup of well Casino 5 on the Ocean Patriot from the 3rd July to 5th July 2005.

The operational objectives for Well Casino 5 were:

- 1) Install lower completion comprising packer, tubing & sand screens in 8 1/2" horizontal hole.
- 2) Install upper completion and tubing hanger using landing string.
- 3) Flow Well to Cleanup
- 4) Suspend well for tie-in and commisioning.

The well test objectives were:

- 1) To establish the following clean-up criteria:
- a) BS&W <3% not measurable.
- b) Stable THP <10 psi/5 min change over 2 hours.
- c) Stable gas rate.
- d) WGR <0.5 bbl/MMscf LGR <0.5 bbl/MMscf.

All operations were conducted safely and in accordance with Santos and Expro safe operating procedures and guidelines.

Gas specific gravity of 0.59 used for rate calculations based on PVT analysis performed on gas samples. This over rides the estimate gas specific gravity reported duriong the test.





Sequence of Events

Client Santos Ltd

Well No. Casino 5

Test No. Completion

Location Ocean Patriot

Dates From/To 03/07/05 - 05/07/05

Country Australia

Field Casino

Formation Waarre C Sands

Exal Engineer J. Morrison / B. Tupman

Expro Supervisor F. Beaton

Client Engineer R. King / M. Andronov / P. Nardone

Perforations Expandable Sand Screens

Well No. Casino 5 Location Ocean Patriot

Test No. Completion **Dates From/To** 03/07/05 - 05/07/05

Time Comment

03/07/05

- 06:10:00 Picked up and installed Expro 7" flowhead onto test string.
- 08:30:00 Installed coflexip hose to Flow Wing Valve (FWV) and kill hose to Kill Wing Valve (KWV) on

flowhead.

- 09:00:00 Held JSA on rig floor prior to rigging up wireline.
- 09:00:00 Closed Swab Valve (SV) on flowhead.
- 09:40:00 Expro wireline commenced rigging up.
- 11:50:00 Expro wireline completed rigging up.
- 12:00:00 Closed Master Valve (MV) and opened SV on flowhead.
- 12:43:00 Opened choke manifold.
- 12:44:00 Flushed across flowhead through surface lines with seawater to choke manifold.
- 12:46:00 Closed choke manifold.
- 12:48:00 Commenced pressure testing flowhead, wireline PCE, coflexip and surface lines to ±500/5000 psi.
- 12:53:00 No test, leak observed from needle valve on lubricator.
- 13:03:00 Increased test pressure to ±500/5000 psi.
- 13:21:00 Good test, bled off test pressure via choke manifold.
- 13:26:00 Opened Sub Sea Production Master Valve (SSPMV).
- 13:27:00 Opened Sub Sea Crossover Valve (SSXOV).
- 13:28:00 Opened Sub Sea Annulus Master Valve (SSAMV).
- 13:29:00 Opened Sub Sea Annulus Access Valve (SSAAV).
- 13:30:00 Closed SV and opened MV on flowhead.
- 13:45:00 Commenced operations to land out tubing hanger as per completion programme.
- 18:00:00 Completed operations to land out tubing hanger as per completion programme.
- 18:34:00 Closed Choke manifold.
- 18:34:00 Closed SSAAV.
- 19:05:00 FWV on flowhead put into ESD mode.
- 19:05:00 Commenced pressure testing between lower 10 3/4" rams and SSAMV to ±200/3000 psi.
- 19:05:00 No test, leak observed in manifold to annular pressure sensor on drill floor.
- 19:05:00 Commenced pressure testing between lower 10 3/4" rams and SSAMV to ±200/3000 psi.
- 20:38:00 No test, commenced troubleshooting to locate leak.
- 20:45:00 Closed SSAMV.
- 20:46:00 Closed SSPMV.
- 21:18:00 Closed SSAAV.
- 21:18:00 Commenced pressure testing between lower 10 3/4" rams and SSAMV to ±200/3000 psi.
- 21:32:00 Bled off test pressure to zero.
- 21:40:00 Commenced pressure testing between lower 10 3/4" rams and SSAMV to ±200/3000 psi.
- 21:56:00 Bled off test pressure to zero.
- 22:05:00 Opened SSAAV.
- 22:11:00 Commenced pressure testing isolation sleeve to ±200/4000 psi.
- 22:25:00 No test, leak detected.
- 22:27:00 Closed SSPMV.
- 22:57:00 Opened SSPMV.
- 23:55:00 Opened SV on flowhead.
- 23:55:00 Expro wireline commenced running in hole (RIH) with GS to pull Tubing Hanger isolation sleeve.

- 00:15:00 Expro wireline at surface with isolation sleeve, closed SV on flowhead.
- 01:30:00 Opened SV on flowhead.
- 01:30:00 Expro wireline commenced RIH with GS to set back up Tubing Hanger isolation sleeve.
- 01:45:00 Expro wireline at surface (isolation sleeve set).
- 01:50:00 Commenced pressure testing isolation sleeve to ±200/4000 psi.
- 01:52:00 No test, indication of pressure upstream of choke manifold.
- 02:03:00 Bled off pressure via choke manifold.

Well No. Casino 5 Location Ocean Patriot

Test No. Completion **Dates From/To** 03/07/05 - 05/07/05

Time Comment

- 02:53:00 Opened SV on flowhead.
- 02:55:00 Expro wireline commenced RIH with GS to pull Tubing Hanger isolation sleeve.
- 03:10:00 Expro wireline at surface with isolation sleeve, closed SV on flowhead.
- 03:27:00 Broke out lubricator and inspected sleeve, pin not sheared.
- 03:35:00 Stabbed on with lubricator.
- 03:37:00 Opened SV on flowhead.
- 03:37:00 Expro wireline commenced RIH with GS to reset Tubing Hanger isolation sleeve, wireline remained in hole.
- 03:49:00 Commenced pressure testing Tubing Hanger isolation sleeve to ±200/4000 psi.
- 03:53:00 No test, Tubing Hanger isolation sleeve not set properly.
- 03:55:00 Expro wireline commenced jarring on sleeve in attempt to set.
- 04:00:00 Commenced pressure testing Tubing Hanger isolation sleeve to ±200/4000 psi.
- 04:02:00 No test, Tubing Hanger isolation sleeve not set properly.
- 04:07:00 Expro wireline commenced jarring on sleeve in attempt to set.
- 04:11:00 Commenced pressure testing Tubing Hanger isolation sleeve to ±200/4000 psi.
- 04:12:00 No test, Tubing Hanger isolation sleeve not set properly.
- 04:19:00 Expro wireline commenced pulling out of hole (POOH) with Tubing Hanger isolation sleeve.
- 04:27:00 Expro wireline at surface, closed SV on flowhead.
- 04:34:00 Broke out lubricator and inspected isolation sleeve rings, tool not landed properly.
- 05:00:00 Stabbed on with lubricator.
- 05:03:00 Opened SV on flowhead.
- 05:03:00 Expro wireline commenced RIH with GS to set Tubing Hanger isolation sleeve, wireline remained in hole.
- 05:19:00 Commenced pressure testing Tubing Hanger isolation sleeve to ±200/4000 psi.
- 05:21:00 No test, leak detected.
- 05:30:00 Expro wireline commenced POOH without isolation sleeve.
- 05:36:00 Expro wireline at surface, closed SV on flowhead (Isolation Sleeve left in hole).
- 05:40:00 Prepare GS tool to RIH and pull Tubing Hanger isolation Sleeve.
- 06:15:00 Opened SV on flowhead.
- 06:20:00 Expro wireline commenced RIH with GS to pull Tubing Hanger isolation sleeve.
- 06:40:00 Expro wireline at surface with tubing hanger isolation sleeve, closed SV on flowhead.
- 06:50:00 Prepared isolation sleeve to be run with lockring removed.
- 06:55:00 Opened SV on flowhead.
- 07:00:00 Expro wireline commenced RIH with GS to set Tubing Hanger isolation sleeve, wireline remained in hole.
- 07:11:00 Commenced pressure testing Tubing Hanger isolation sleeve to ±200/4000 psi.
- 07:36:00 Good test, bled off test pressure to zero.
- 07:42:00 Expro wireline at surface without isolation sleeve, closed SV on flowhead.
- 07:45:00 Closed MV on flowhead.
- 07:46:00 Opened choke manifold.
- 07:48:00 Opened KWV on flowhead.
- 07:55:00 SSSV line pressurised to ±6500 psi.
- 08:09:00 Opened MV on flowhead.
- 08:10:00 Expro wireline commenced RIH with GS to pull Tubing Hanger isolation sleeve.
- 08:18:00 Expro wireline at surface with tubing hanger isolation sleeve, closed SV on flowhead.
- 08:30:00 Installed protection sleeve onto toolstring.
- 08:35:00 Stabbed on with lubricator.
- 08:36:00 Opened SV on flowhead.
- 08:37:00 Expro wireline commenced RIH with GS to set Tubing Hanger protection sleeve.
- 08:48:00 Expro wireline set protection sleeve and commenced POOH.
- 08:50:00 Opened SSAMV.
- 08:51:00 Closed SSPMV.

Well No. Casino 5 Location Ocean Patriot

Test No. Completion **Dates From/To** 03/07/05 - 05/07/05

Time Comment

- 08:52:00 Expro wireline at surface, closed MV on flowhead.
- 09:20:00 Flushed across flowhead through surface lines with seawater to choke manifold.
- 09:22:00 Closed choke manifold.
- 09:23:00 Commenced pressure testing flowhead, wireline PCE, coflexip and surface lines to ±500/5000 psi.
- 09:38:00 Cementer increased test pressure to ±5000 psi.
- 09:41:00 Good test, bled off test pressure to zero via choke manifold. Closed choke manifold.
- 09:47:00 Closed SV and opened MV on flowhead.
- 11:12:00 Commenced pumping forward circulating diesel down tubing taking returns up annulus.
- 11:34:00 Total amount of diesel circulated = 28 bbls (Tubing head pressure = 125 psi).
- 12:03:00 Total amount of diesel circulated = 73 bbls (Tubing head pressure = 350 psi).
- 12:34:00 Total amount of diesel circulated = 124 bbls (Tubing head pressure = 567 psi).
- 13:02:00 Total amount of diesel circulated = 169 bbls (Tubing head pressure = 753 psi).
- 13:11:00 Total amount of diesel circulated = 185 bbls (Tubing head pressure = 812 psi). Stopped pumping diesel.
- 13:21:00 Closed MV on flowhead.
- 13:22:00 Bled off surface pressure via choke manifold. Closed choke manifold.
- 13:26:00 Opened SV on flowhead.
- 13:30:00 Equalised across MV on flowhead and opened (Tubing head pressure = ±790 psi) . Closed KWV on flowhead.
- 13:35:00 Expro wireline commenced RIH with standing valve.
- 14:15:00 Expro wireline on depth at 5416ft RKB, commenced jarring to set standing valve in 4.625" QN nipple.
- 14:20:00 Expro wireline unable to shear off standing valve, remained latched.
- 14:21:00 Opened KWV on flowhead.
- 14:40:00 Unable to pressure test against standing valve. Closed KWV on flowhead.
- 14:45:00 Expro wireline shear off standing valve, commenced POOH.
- 14:56:00 Expro wireline at surface, closed MV on flowhead.
- 14:57:00 Bled off surface pressure to zero via choke manifold.
- 15:02:00 Closed SV on flowhead.
- 15:05:00 Broke out lubricator and tied new rope socket.
- 15:45:00 Stabbed on with lubricator.
- 15:49:00 Closed choke manifold.
- 15:51:00 Opened KWV on flowhead.
- 15:54:00 Opened SV on flowhead.
- 16:00:00 Equalised across MV on flowhead and opened (Tubing head pressure = ± 785 psi) . Closed KWV on flowhead.
- 16:05:00 Expro wireline commenced RIH with GS to pull standing valve.
- 16:19:00 Expro wireline on depth at 5416ft RKB and latched standing valve.
- 16:21:00 Opened KWV on flowhead.
- 16:22:00 Pressured up tubing to ±1200 psi to test against standing valve.
- 16:31:00 No test, leak observed (Tubing head pressure = ±790 psi). Wireline jarred doen on Standing Valve.
- 16:33:00 Increased tubing pressure to ±1300 psi.
- 16:39:00 Increased tubing pressure to ±2000 psi.
- 16:47:00 Increased tubing pressure to ±4000 psi to set Halliburton HHT packer.
- 17:02:00 Packer set.
- 17:03:00 Bled off surface pressure via choke manifold to ±1000 psi. Closed choke manifold.
- 17:15:00 Closed KWV on flowhead.
- 17:23:00 Closed SSXOV.
- 17:24:00 Opened SSPMV.
- 17:36:00 Commenced pressure testing annulus between packer and tubing hanger to ±500/3000 psi.
- 17:58:00 Closed SSAAV.
- 17:59:00 Good test, bled off surface pressure above SSAAV to ±168 psi, held for 10 min leak of test.

Well No. Casino 5 Location Ocean Patriot

Test No. Completion **Dates From/To** 03/07/05 - 05/07/05

Time Comment

04/07/05

18:00:00 Functioned emergency shutdown system (ESD), witnessed by Expro welltest supervisor and Santos completions engineer.

18:00:00 Expro wireline commenced POOH.

18:11:00 Good test, equalized pressure across SSAAV.

18:14:00 Opened SSAAV.

18:14:00 Closed SSAMV.

18:16:00 Bled down pressure above SSAMV to ±250 psi held for 10 min leak off test.

18:30:00 Good test, equalized pressure across SSAMV.

18:32:00 Opened SSAMV.

18:35:00 Expro wireline tools at surface, closed SV on flowhead.

18:36:00 Bled off surface pressure to ±100 psi.

18:40:00 Closed SSPMV.

18:44:00 Opened KWV on flowhead.

18:47:00 Commenced pressure testing tubing between well test choke and QN nipple to ±4000 psi.

18:55:00 Closed SSSV.

18:57:00 Bled off surface pressure via choke manifold to ±1500 psi. Closed choke manifold.

19:07:00 Commenced leak off test of SSSV for 10 min.

19:20:00 Good test, equalized pressure above SSSV to ±3750 psi.

19:26:00 Opened SSSV.

19:28:00 Bled off surface pressure via choke manifold to ±1200 psi. Closed choke manifold.

19:33:00 Reduced SSSV control line pressure to ±5000 psi.

19:46:00 Shut MV on flowhead.

19:46:00 Opened SV on flow head.

19:48:00 Bled off surface pressure to zero via choke manifold.

20:00:00 Functioned emergency shutdown system (ESD) on drillfloor, witnessed by Expro welltest supervisor and Santos completions engineer.

20:19:00 Closed choke manifold.

20:38:00 Equalised across MV on flowhead and opened (Tubing head pressure = ± 1250 psi) . Closed KWV on flowhead.

20:47:00 Conducted JSA prior to flowing well.

20:48:00 Opened MV on flowhead.

20:48:00 Expro wireline commenced RIH with GS to pull standing valve.

21:08:00 Expro wireline on depth at 5416ft RKB and latched/pulled standing valve.

21:13:00 Prepared flarebooms for testing operations.

21:32:00 Expro Wireline at surface with standing valve, closed SV on Flowhead.

21:34:00 Bled off surface pressure via choke manifold to zero.

21:40:00 Total cumulative returns to surge tank - 2.5 bbls.

21:41:00 Closed choke manifold.

22:06:00 Commenced pressure testing wireline lubricator to ±4000 psi.

22:30:00 Total cumulative returns to surge tank - 3.5 bbls.

22:31:00 Bled off surface pressure to zero via choke manifold.

22:37:00 Equalised across MV on flowhead and opened (Tubing head pressure = ±1250 psi) . Closed KWV on flowhead.

22:40:00 Opened MV on flowhead.

22:43:00 Opened well on 16/64" adjustable choke to surge tank.

22:45:00 Increased to 24/64" adjustable choke.

22:46:00 Total cumulative returns to surge tank - 4.5 bbls.

22:47:00 Total cumulative returns to surge tank - 8 bbls.

22:48:00 Total cumulative returns to surge tank - 10.5 bbls.

22:49:00 Total cumulative returns to surge tank - 12.5 bbls.

22:50:00 Total cumulative returns to surge tank - 13.5 bbls.

22:51:00 Total cumulative returns to surge tank - 15.5 bbls.

Client Santos Ltd J. Morrison / B. Tupman **Exal Engineer**

Well No. Casino 5 Location Ocean Patriot

Test No. Completion Dates From/To 03/07/05 - 05/07/05

Time Comment

04/07/05

- 22:52:00 Total cumulative returns to surge tank 16.5 bbls.
- 22:52:00 Increased to 28/64" adjustable choke.
- 22:53:00 Total cumulative returns to surge tank 18.5 bbls.
- 22:54:00 Total cumulative returns to surge tank 20.5 bbls.
- 22:55:00 Total cumulative returns to surge tank 23 bbls.
- 22:56:00 Total cumulative returns to surge tank 26 bbls.
- 22:57:00 Total cumulative returns to surge tank 28 bbls.
- 22:58:00 Total cumulative returns to surge tank 30.5 bbls.
- 22:59:00 Total cumulative returns to surge tank 37.5 bbls.
- 23:00:00 Total cumulative returns to surge tank 39.5 bbls. 23:00:00 Diverted flow from surge tank to port flareboom.
- 23:01:00 Total cumulative returns to surge tank 43.5 bbls.
- 23:01:00 Increased to 32/64" adjustable choke.
- 23:02:00 Increased to 36/64" adjustable choke.
- 23:03:00 Increased to 40/64" adjustable choke.
- 23:06:00 Increased to 48/64" adjustable choke.
- 23:11:00 Bled down annulus pressure.
- 23:16:00 Port flareboom flame extinguished due to water/mud to surface.
- 23:18:00 Diverted flow through gas line to port flareboom.
- 23:18:00 Brine at surface.
- 23:25:00 Increased to 52/64" adjustable choke.
- 23:29:00 Increased to 56/64" adjustable choke.
- 23:30:00 Activated low pilot upstream of SSV.
- 23:33:00 Gas to surface.
- 23:33:00 Bled down annulus pressure.
- 23:36:00 Gas flare lit.
- 23:39:00 Increased to 64/64" adjustable choke.
- 23:50:00 Diverted flow through a 64/64" fixed choke.
- 23:58:00 Bled down annulus pressure.

- 00:00:00 Draeger indicated 0.6% CO2, and 0ppm H2S.
- 00:10:00 Diverted flow through a 64/64" adjustable choke.
- 00:15:00 Decreased to 48/64" adjustable choke.
- 00:27:00 Commenced methanol injection upstream of Surface Safety Valve.
- 00:30:00 Increased to 54/64" adjustable choke.
- 00:30:00 Draeger indicated 0.5% CO2, and 0ppm H2S.
- 00:31:00 Stopped methanol injection upstream of Surface Safety Valve.
- 00:35:00 Increased to 56/64" adjustable choke.
- 00:44:00 Increased to 58/64" adjustable choke.
- 00:47:00 Leak in ESD line caused by line contacting compressor exhaust.
- 00:48:00 Closed choke manifold.
- 00:58:00 FWV on flowhead opened.
- 01:33:00 Opened well on 16/64" adjustable choke to port flareboom.
- 01:34:00 Gradually increased to 60/64" adjustable.
- 01:37:00 Diverted through a 60/64" fixed choke.
- 01:38:00 Diverted flow through test separator.
- 01:39:00 Commenced methanol injection upstream of Surface Safety Valve.
- 01:45:00 Gas SG 0.708.
- 01:45:00 Draeger indicated 0.5% CO2, and 0ppm H2S.
- 01:51:00 Installed 4.75" orifice plate in test separator gas meter run.
- 02:00:00 Draeger indicated 0.8% CO2, and 0ppm H2S.

Well No. Casino 5 Location Ocean Patriot

Test No. Completion **Dates From/To** 03/07/05 - 05/07/05

Time Comment

05/07/05

- 02:15:00 Gas SG 0.692.
- 02:15:00 Radon 116 Bq/m3.
- 02:24:00 Bled down annulus pressure.
- 02:30:00 Draeger indicated 0.7% CO2, and 0ppm H2S.
- 03:00:00 Gas SG 0.678.
- 03:00:00 Draeger indicated 0.7% CO2, and 0ppm H2S.
- 03:15:00 Water SG 1.116, water PH 7.
- 03:15:00 Radon 82 Bq/m3.
- 03:24:00 Obtained PVT gas sample No: 1.01 (20L bottle no: A-1971).
- 03:35:00 Chlorides 70000 mg/L.
- 03:35:00 Alkalinity 892 mg/L CaCo3eqv.
- 03:35:00 pH 6.14 @ 11.3 °C.
- 03:35:00 Conductivity 44.6 mS/cm @ 11.3 °C.
- 03:35:00 Resistivity 0.022 Ohm-m @ 11.3 °C.
- 03:35:00 Water SG 1.088 @ 12.5 °C.
- 03:44:00 Radon 112 Bg/m3.
- 03:54:00 Obtained PVT gas sample No: 1.02 (20L bottle no: A-0168).
- 04:14:00 Lifted 4.75" orifice plate from test separator gas meter run.
- 04:15:00 Closed in well at choke manifold. Stopped methanol injection upstream of Surface Safety Valve.
- 04:15:00 Average water rate through separator on 60/64" Choke 24 bbls/d.
- 04:15:00 Clean-up criteria established: 1: BS&W <3% not measurable, 2: Stable THP <10 psi/5 min change over 2 hours, 3: Stable gas rate 45 MMscf/d 4: WGR <0.5 bbl/MMscf estimated LGR <0.5 bbl/MMscf.
- 04:15:00 Obtained gas sample No: 1.03 (150cc bottle no: W-015).
- 04:18:00 Obtained gas sample No: 1.04 (150cc bottle no: W-019).
- 04:20:00 Condensate SG 0.794 @ 15 °C. API 46.7.
- 04:20:00 Obtained 4 x 1L water/condensate sample No's: 1.05, 1.06, 1.07 & 1.08 (1L container).
- 04:20:00 Isolated low pilots in well test area.
- 04:20:00 Closed SSSV.
- 04:28:00 Bled off surface pressure via choke manifold to ±100 psi. Closed choke manifold.
- 04:38:00 Commenced leak off test on SSSV.
- 04:57:00 Good test, bled off surface pressure to zero via choke manifold, closed choke manifold.
- 05:00:00 Bullheaded 26 bbls of water/glycol mix on top of SSSV.
- 05:35:00 Expro wireline installed GS into lubricator.
- 05:45:00 Stabbed on with lubricator.
- 05:50:00 Expro wireline commenced RIH with GS to pull protection sleeve.
- 06:04:00 Closed SSAMV.
- 06:05:00 Opened SSXOV.
- 06:06:00 Opened SSPMV.
- 06:10:00 Expro wireline at surface with protection sleeve, closed MV on flowhead.
- 06:12:00 Broke out lubricator, changed out to set Tubing hanger plug
- 06:17:00 Flushed across flowhead to choke manifold.
- 06:21:00 Returns observed at choke manifold. Closed choke manifold.
- 06:22:00 Commenced pressure testing lubricator to ±500/5000 psi.
- 06:37:00 Good test, bled off surface pressure to zero via choke manifold.
- 06:38:00 Opened MV on flowhead.
- 06:39:00 Expro wireline commenced RIH to set 6.7" Tubing Hanger plug.
- 06:45:00 Expro wireline on depth with 6.7" Tubing Hanger plug.
- 06:50:00 Cementer applied ±3000 psi to tubing to assist setting of Tubing Hanger plug.
- 07:00:00 Expro wireline commenced POOH.
- 07:07:00 Expro wireline at surface, closed SV on flowhead.
- 07:08:00 Increased tubing pressure to ±5000 psi to pressure test Tubing Hanger plug.

Well No. Casino 5 Location Ocean Patriot

Test No. Completion **Dates From/To** 03/07/05 - 05/07/05

Time	Comment
05/07/05	
07:31:00	Good test, bled off surface pressure to ±3000 psi via choke manifold. Opened SV on flowhead.
07:36:00	Bled off surface pressure to zero via choke manifold.
07:40:00	Commenced pressure testing below 6.7" Tubing Hanger plug to ±1000 psi.
07:51:00	Bled down pressure to ±540 psi via rig floor.
08:07:00	Good test, bled off pressure to ±50 psi.
08:17:00	Commenced flushing flowhead and surface lines.
08:27:00	Closed SSPMV.
08:28:00	Closed SSXOV.
08:30:00	Opened SSAMV.
08:31:00	Closed SSAMV.
08:32:00	Completed flushing flowhead and surface lines.
08:32:00	End of test.





Clean Up Flow Period - Data Listing

Client Santos Ltd

Well No. Casino 5

Test No. Completion

Location Ocean Patriot

Dates From/To 03/07/05 - 05/07/05

Country Australia

Field Casino

Formation Waarre C Sands

Exal Engineer J. Morrison / B. Tupman

Expro Supervisor F. Beaton

Client Engineer R. King / M. Andronov / P. Nardone

Perforations Expandable Sand Screens

Gas specific gravity of 0.59 used for rate calculations based on PVT analysis performed on gas samples. This over rides the estimate gas specific gravity reported duriong the test.

Well No. Casino 5 Location Ocean Patriot

Test No. Completion **Dates From/To** 03/07/05 - 05/07/05

Time hh:mm:ss	Choke 64th	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG	GasP PSIG	GasT °F	GasD INWG	Orif Size	QGas1av MMscf/d	Gas1Cum MMscf	GasSG Factor	Co2 mol%	H2S ppm
04/07/05															
22:43:00	Opened well	on 16/64" a	adiustable	choke to si	urge tank.										
22:43:00	16	1114.9	53.8	4.6	53.5	120.1	0.00	54.5	0.0	0.0	0.000	0.000	0.590	0.00	0.00
22:44:00	16	997.8	53.8	9.1	53.5	107.0	0.00	54.5	0.0	0.0	0.000	0.000	0.590	0.00	0.00
22:45:00	Increased to			ke.											
22:45:00	24	577.4	53.8	8.1	53.7	68.8	0.00	54.4	0.0	0.0	0.000	0.000	0.590	0.00	0.00
22:46:00	Total cumula	ative returns	s to surge	tank - 4.5 b	bls.										
22:46:00	24	566.8	53.9	51.9	53.9	68.6	0.00	54.4	0.0	0.0	0.000	0.000	0.590	0.00	0.00
22:47:00	Total cumula	ative returns	s to surge	tank - 8 bbl	s.										
22:47:00	24	577.9	54.0	47.8	54.3	68.8	0.00	54.5	0.0	0.0	0.000	0.000	0.590	0.00	0.00
22:48:00	Total cumula	ative returns	s to surge	tank - 10.5	bbls.										
22:48:00	24	587.9	54.5	48.0	55.0	72.7	0.00	54.4	0.0	0.0	0.000	0.000	0.590	0.00	0.00
22:49:00	Total cumula	ative returns	s to surge	tank - 12.5	bbls.										
22:49:00	24	600.3	55.0	48.4	55.6	79.0	0.00	54.4	0.0	0.0	0.000	0.000	0.590	0.00	0.00
22:50:00	Total cumula	ative returns	s to surge	tank - 13.5	bbls.										
22:50:00	24	615.7	55.1	50.2	55.9	83.1	0.00	54.4	0.0	0.0	0.000	0.000	0.590	0.00	0.00
22:51:00	Total cumula	ative returns	s to surge	tank - 15.5	bbls.										
22:51:00	24	631.0	55.3	51.4	56.2	90.1	0.00	54.4	0.0	0.0	0.000	0.000	0.590	0.00	0.00
22:52:00	Total cumula	ative returns	s to surge	tank - 16.5	bbls.										
22:52:00	Increased to	28/64" adjι	ustable cho	oke.											
22:52:00	28	645.3	55.5	53.1	56.5	100.1	0.00	54.4	0.0	0.0	0.000	0.000	0.590	0.00	0.00
22:53:00	Total cumula	ative returns	s to surge	tank - 18.5	bbls.										
22:53:00	28	653.7	55.6	98.3	56.7	107.5	0.00	54.4	0.0	0.0	0.000	0.000	0.590	0.00	0.00
22:54:00			s to surge	tank - 20.5	bbls.										
22:54:00	28	675.4	55.8	100.9	56.8	117.7	0.00	54.4	0.0	0.0	0.000	0.000	0.590	0.00	0.00
22:55:00															
22:55:00	28	696.2	55.9	102.8	57.0	128.5	0.00	54.4	0.0	0.0	0.000	0.000	0.590	0.00	0.00
22:56:00			_												
22:56:00	28	716.5	56.1	105.4	57.2	144.1	0.00	54.4	0.0	0.0	0.000	0.000	0.590	0.00	0.00
	Total cumula		_												
22:57:00	28	737.3	56.4	108.9	57.5	155.1	0.00	54.3	0.0	0.0	0.000	0.000	0.590	0.00	0.00
22:58:00	Total cumula	ative returns	s to surge	tank - 30.5	bbls.										

Well No. Casino 5 Location Ocean Patriot

Test No. Completion **Dates From/To** 03/07/05 - 05/07/05

	J. Compic							100 1 10	11/10	70/01/00	00/01/				
Time	Choke	UcP	UcT	DcP	DcT	AnnP	GasP	GasT	GasD	Orif Size	QGas1av	Gas1Cum	GasSG	Co2	H2S
hh:mm:ss	64th	PSIG	°F	PSIG	°F	PSIG	PSIG	°F	INWG	ins	MMscf/d	MMscf	Factor	mol%	ppm
04/07/05															
22:58:00	28	759.4	57.2	112.4	58.0	169.8	0.00	54.4	0.0	0.0	0.000	0.000	0.590	0.00	0.00
22:59:00	Total cumula	tive returns	to surge	tank - 37.5	bbls.										
22:59:00	28	781.7	58.0	115.8	58.7	185.6	0.00	54.4	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:00:00	Total cumula	tive returns	to surge	tank - 39.5	bbls.										
23:00:00	Diverted flow	from surge	e tank to p	ort flareboo	om.										
23:00:00	28	804.0	59.0	119.7	59.5	201.3	0.00	54.4	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:01:00	Total cumula	tive returns	to surge	tank - 43.5	bbls.										
23:01:00	Increased to	32/64" adju	stable cho	oke.											
23:01:00	32	825.6	59.9	19.6	60.2	217.0	0.00	54.4	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:02:00	Increased to	36/64" adju	stable cho	oke.											
23:02:00	36	846.9	60.7	73.9	61.1	232.2	0.00	54.4	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:03:00	Increased to	40/64" adju	stable cho	oke.											
23:03:00	40	869.6	61.6	101.5	62.1	253.4	0.00	54.4	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:04:00	40	901.1	62.5	136.9	62.9	261.0	0.00	54.4	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:05:00	40	947.0	63.6	141.4	63.7	287.1	0.00	54.4	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:06:00	Increased to	48/64" adju	stable cho	oke.											
23:06:00	48	999.4	64.8	146.3	64.7	322.1	0.00	54.3	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:07:00	48	1039.0	66.0	202.5	65.6	354.4	0.00	54.3	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:08:00	48	1098.5	67.1	272.2	66.5	396.7	0.00	54.4	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:09:00	48	1179.7	68.4	288.4	67.4	444.6	0.00	54.3	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:10:00	48	1263.3	69.9	303.5	68.6	489.7	0.00	54.4	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:11:00	Bled down a	nnulus pres	sure.												
23:11:00	48	1351.2	71.5	319.4	69.9	538.4	0.00	54.3	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:12:00	48	1442.0	73.2	336.2	71.3	221.3	0.00	54.3	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:13:00	48	1536.6	74.9	354.6	72.7	136.1	0.00	54.3	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:14:00	48	1633.5	76.4	377.1	74.0	169.4	0.00	54.3	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:15:00	48	1737.4	78.0	396.1	75.3	201.9	0.00	54.3	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:16:00	Port flareboo	m flame ex	tinguished	d due to wa	ter/mud to	surface.									
23:16:00	48	1841.2	79.5	416.1	76.5	228.9	0.00	54.3	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:17:00	48	1944.7	81.2	663.5	77.8	249.9	0.00	54.3	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:18:00	Diverted flow	through ga	as line to p	ort flarebo	om.										

Well No. Casino 5 Location Ocean Patriot

Test No. Completion **Dates From/To** 03/07/05 - 05/07/05

Time	Choke	UcP	UcT	DcP	DcT	AnnP	GasP	GasT	GasD	Orif Size	QGas1av	Gas1Cum	GasSG	Co2	H2S
hh:mm:ss	64th	PSIG	°F	PSIG	°F	PSIG	PSIG	°F	INWG	ins	MMscf/d	MMscf	Factor	mol%	ppm
04/07/05															
23:18:00	Brine at surf	ace.													
23:18:00	48	2018.7	82.3	742.2	77.8	266.7	0.00	54.3	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:19:00	48	2047.5	83.2	588.9	77.1	277.1	5.99	57.1	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:20:00	48	2071.6	83.5	749.0	76.4	287.1	13.10	64.1	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:21:00	48	2084.1	83.3	688.5	74.5	297.6	31.13	67.0	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:22:00	48	2080.4	82.6	731.4	71.8	313.1	57.87	65.2	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:23:00	48	2089.6	81.8	726.1	68.7	329.1	90.25	60.7	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:24:00	48	2099.6	81.2	727.5	65.8	349.7	125.89	56.3	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:25:00	Increased to	52/64" adju	stable ch	oke.											
23:25:00	52	2123.8	80.7	743.0	63.7	370.6	159.19	53.4	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:26:00	52	2134.4	80.6	852.8	62.4	387.3	192.31	53.0	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:27:00	52	2161.4	81.0	880.4	62.8	406.7	222.42	56.1	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:28:00	56	2180.4	81.7	902.7	63.4	423.1	252.10	59.5	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:29:00	Increased to	56/64" adju	stable ch												
23:29:00	56	2193.3	82.3	896.1	63.5	437.4	280.43	60.9	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:30:00	Activated lo	w pilot upst													
23:30:00	56	2170.8	82.4	1037.0	62.9	449.5	328.64	59.3	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:31:00	56	2177.7	82.4	1028.4	62.1	470.3	380.77	56.4	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:32:00	56	2187.7	82.6	1018.0	61.1	493.6	431.12	53.7	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:33:00	Gas to surfa														
23:33:00	Bled down a		sure.												
23:33:00	56	2192.0	82.9	1027.0	60.1	515.9	480.92	51.5	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:34:00	56	2207.0	83.3	1036.0	59.6	226.8	525.81	50.9	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:35:00	56	2229.9	83.8	1061.3	59.5	124.4	564.82	51.9	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:36:00	Gas flare lit.									***					
23:36:00	56	2244.4	84.5	1075.0	59.9	139.1	598.67	54.2	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:37:00	56	2253.6	85.1	1079.5	60.1	150.4	630.38	55.1	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:38:00	56	2258.5	85.5	1077.1	60.1	164.9	656.93	55.0	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:39:00	Increased to				••••		300.00	00.0	0.0	7.0	0.000	0.000	0.000	0.00	3.30
23:39:00	64	2263.4	85.9	1073.2	59.7	179.4	678.77	53.8	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:40:00	64	2246.4	86.0	1186.8	59.3	190.4	707.71	52.7	0.0	0.0	0.000	0.000	0.590	0.00	0.00
_50.50	3 4	2270.7	00.0		00.0		Page 4		0.0	0.0	0.000	0.000	0.000	0.00	0.50

Well No. Casino 5 Location Ocean Patriot

Test No. Completion Dates From/To 03/07/05 - 05/07/05

Time hh:mm:ss	Choke 64th	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG	GasP PSIG	GasT °F	GasD INWG	Orif Size	QGas1av MMscf/d	Gas1Cum MMscf	GasSG Factor	Co2 mol%	H2S ppm
	· · · · ·	. 55	•		•			•							PP
04/07/05		0040.4	00.0	40440	50.0	005.0						0.000	0.500		0.00
23:41:00	64	2218.4	86.3	1314.0	59.9	205.6	754.87	53.7	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:42:00	64	2224.1	86.7	1305.0	60.4	227.5	798.05	54.5	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:43:00	64	2228.4	87.3	1297.2	60.7	252.6	830.43	54.3	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:44:00	64	2237.4	87.8	1304.8	60.9	277.9	850.98	54.0	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:45:00	64	2248.7	88.4	1318.3	61.1	299.8	865.33	54.3	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:46:00	64	2263.0	88.8	1293.4	61.4	321.3	869.93	54.6	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:47:00	64	2265.6	89.3	1303.8	61.4	340.7	868.82	54.5	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:48:00	64	2267.9	89.7	1300.3	61.5	357.7	872.26	54.4	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:49:00	64	2269.1	90.2	1291.1	61.4	376.5	868.15	54.3	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:50:00	Diverted flow	_	64/64" fix												
23:50:00	64	2313.9	90.6	1067.9	61.2	393.9	861.59	54.3	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:51:00	64	2291.4	90.9	1222.8	60.4	412.3	849.20	54.1	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:52:00	64	2292.8	91.2	1214.0	59.8	427.8	837.30	54.0	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:53:00	64	2294.1	91.4	1206.3	59.3	444.4	817.86	54.0	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:54:00	64	2295.5	91.7	1200.3	58.9	459.3	805.23	54.1	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:55:00	64	2297.1	92.1	1199.3	58.6	474.0	801.91	54.2	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:56:00	64	2299.0	92.3	1197.9	58.4	488.7	800.32	54.3	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:57:00	64	2300.6	92.6	1196.0	58.2	504.7	799.77	54.3	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:58:00	Bled down a	nnulus pres	ssure.												
23:58:00	64	2302.2	92.9	1195.0	58.0	518.6	798.60	54.4	0.0	0.0	0.000	0.000	0.590	0.00	0.00
23:59:00	64	2303.4	93.2	1195.2	58.0	207.6	797.44	54.3	0.0	0.0	0.000	0.000	0.590	0.00	0.00
05/07/05															
00:00:00	Draeger indi	icated 0.6%	CO2, and	0ppm H2S.											
00:00:00	64	2304.9	93.6	1192.2	58.0	121.2	795.72	54.4	0.0	0.0	0.000	0.000	0.590	0.60	0.00
00:01:00	64	2305.9	94.0	1190.5	58.0	132.8	794.00	54.4	0.0	0.0	0.000	0.000	0.590	0.60	0.00
00:02:00	64	2306.9	94.4	1188.7	58.1	142.2	792.90	54.4	0.0	0.0	0.000	0.000	0.590	0.60	0.00
00:02:00	64	2307.9	94.7	1183.4	58.2	153.3	790.32	54.3	0.0	0.0	0.000	0.000	0.590	0.60	0.00
00:03:00	64	2308.6	95.0	1183.0	58.2	163.3	789.10	54.2	0.0	0.0	0.000	0.000	0.590	0.60	0.00
00:05:00	64	2309.0	95.2	1177.7	58.2	174.3	783.64	54.3	0.0	0.0	0.000	0.000	0.590	0.60	0.00
00:06:00	64	2309.6	95.5	1174.4	58.2	185.3	780.20	54.1	0.0	0.0	0.000	0.000	0.590	0.60	0.00
30.00.00	04	2505.0	33.3	11/4.4	JU.Z	100.0	700.20 Page 5		0.0	0.0	0.000	0.000	0.550	0.00	5.00

Well No. Casino 5 Location Ocean Patriot

Test No. Completion Dates From/To 03/07/05 - 05/07/05

Time hh:mm:ss	Choke 64th	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG	GasP PSIG	GasT °F	GasD INWG	Orif Size ins	QGas1av MMscf/d	Gas1Cum MMscf	GasSG Factor	Co2 mol%	H2S ppm
05/07/05															
00:07:00	64	2309.6	95.9	1168.9	58.2	195.4	776.09	54.0	0.0	0.0	0.000	0.000	0.590	0.60	0.00
00:08:00	64	2310.6	96.2	1167.2	58.3	206.4	771.49	54.0	0.0	0.0	0.000	0.000	0.590	0.60	0.00
00:09:00	64	2311.0	96.4	1159.0	58.3	213.8	768.61	54.0	0.0	0.0	0.000	0.000	0.590	0.60	0.00
00:10:00	Diverted flow														
00:10:00	64	2311.4	96.7	1160.5	58.3	225.2	767.57	54.0	0.0	0.0	0.000	0.000	0.590	0.60	0.00
00:11:00	64	2295.9	97.0	1238.2	58.4	233.2	782.23	53.9	0.0	0.0	0.000	0.000	0.590	0.60	0.00
00:12:00	64	2293.6	97.3	1243.9	59.0	243.0	816.57	52.5	0.0	0.0	0.000	0.000	0.590	0.60	0.00
00:13:00	64	2294.3	97.7	1247.4	59.6	253.6	826.57	52.5	0.0	0.0	0.000	0.000	0.590	0.60	0.00
00:14:00	64	2295.5	98.0	1249.0	60.1	263.8	829.33	52.9	0.0	0.0	0.000	0.000	0.590	0.60	0.00
00:15:00	Decreased to	o 48/64" adj	ustable cl	hoke.											
00:15:00	64	2295.7	98.4	1246.5	60.5	272.2	830.55	53.1	0.0	0.0	0.000	0.000	0.590	0.60	0.00
00:16:00	48	2304.3	98.7	1216.9	60.9	282.6	828.35	53.4	0.0	0.0	0.000	0.000	0.590	0.60	0.00
00:17:00	48	2426.7	99.1	727.3	58.9	304.1	728.32	53.3	0.0	0.0	0.000	0.000	0.590	0.60	0.00
00:18:00	48	2429.2	98.9	696.6	55.3	307.8	626.39	52.0	0.0	0.0	0.000	0.000	0.590	0.60	0.00
00:19:00	48	2429.2	98.3	725.5	52.6	307.8	550.83	50.5	0.0	0.0	0.000	0.000	0.590	0.60	0.00
00:20:00	48	2428.8	97.8	769.6	50.8	307.8	498.70	49.6	0.0	0.0	0.000	0.000	0.590	0.60	0.00
00:21:00	48	2429.0	97.3	812.3	49.5	307.8	478.16	49.5	0.0	0.0	0.000	0.000	0.590	0.60	0.00
00:22:00	48	2428.8	96.9	866.3	48.6	307.4	489.57	49.9	0.0	0.0	0.000	0.000	0.590	0.60	0.00
00:23:00	48	2428.8	96.6	908.4	48.0	307.2	504.65	50.5	0.0	0.0	0.000	0.000	0.590	0.60	0.00
00:24:00	48	2428.8	96.4	934.4	47.6	307.0	518.08	51.1	0.0	0.0	0.000	0.000	0.590	0.60	0.00
00:25:00	48	2428.6	96.2	946.9	47.4	306.8	529.55	51.5	0.0	0.0	0.000	0.000	0.590	0.60	0.00
00:26:00	48	2428.4	96.0	938.7	47.3	307.2	539.49	51.6	0.0	0.0	0.000	0.000	0.590	0.60	0.00
00:27:00	Commenced	l methanol i	injection ι	pstream of	Surface S	afety Valv	e.								
00:27:00	48	2427.8	95.9	907.2	47.2	307.0	538.87	51.6	0.0	0.0	0.000	0.000	0.590	0.60	0.00
00:28:00	48	2427.9	95.8	879.2	47.1	310.9	538.87	51.6	0.0	0.0	0.000	0.000	0.590	0.60	0.00
00:29:00	48	2428.2	95.7	918.4	46.9	310.9	537.83	51.8	0.0	0.0	0.000	0.000	0.590	0.60	0.00
00:30:00	Increased to	54/64" adjι	ıstable ch	oke.											
00:30:00	Draeger indi	cated 0.5%	CO2, and	0ppm H2S.											
00:30:00	54	2428.2	95.6	951.8	46.9	313.9	543.35	51.7	0.0	0.0	0.000	0.000	0.590	0.50	0.00
00:31:00	Stopped me	thanol injec	tion upstr	eam of Surf	face Safety	/ Valve.									
00:31:00	54	2390.7	95.6	1210.6	47.0	313.9	561.81	52.0	0.0	0.0	0.000	0.000	0.590	0.50	0.00

Well No. Casino 5 Location Ocean Patriot

Test No. Completion **Dates From/To** 03/07/05 - 05/07/05

Time	Choke	UcP	UcT	DcP	DcT	AnnP	GasP	GasT	GasD	Orif Size	QGas1av	Gas1Cum	GasSG	Co2	H2S
hh:mm:ss	64th	PSIG	°F	PSIG	°F	PSIG	PSIG	°F	INWG	ins	MMscf/d	MMscf	Factor	mol%	ppm
05/07/05															
00:32:00	54	2373.0	96.0	1108.3	48.2	311.3	651.04	43.3	0.0	0.0	0.000	0.000	0.590	0.50	0.00
00:33:00	54	2368.5	96.7	1062.3	49.6	317.8	684.29	42.1	0.0	0.0	0.000	0.000	0.590	0.50	0.00
00:34:00	56	2368.7	97.3	1053.0	50.5	325.0	681.71	44.3	0.0	0.0	0.000	0.000	0.590	0.50	0.00
00:35:00	Increased to	56/64" adjı	ustable ch	oke.											
00:35:00	56	2368.9	97.8	1038.2	51.2	332.3	681.03	46.0	0.0	0.0	0.000	0.000	0.590	0.50	0.00
00:36:00	56	2357.4	98.2	1084.8	51.6	339.1	696.18	46.8	0.0	0.0	0.000	0.000	0.590	0.50	0.00
00:37:00	56	2354.8	98.7	1082.2	52.4	345.6	714.40	46.4	0.0	0.0	0.000	0.000	0.590	0.50	0.00
00:38:00	56	2354.4	99.2	1070.9	53.1	351.6	715.50	47.5	0.0	0.0	0.000	0.000	0.590	0.50	0.00
00:39:00	56	2354.4	99.6	1055.4	53.5	359.3	710.60	48.3	0.0	0.0	0.000	0.000	0.590	0.50	0.00
00:40:00	56	2353.5	100.0	1048.2	53.9	366.5	705.50	48.8	0.0	0.0	0.000	0.000	0.590	0.50	0.00
00:41:00	56	2353.7	100.2	1046.6	54.2	372.6	700.23	49.2	0.0	0.0	0.000	0.000	0.590	0.50	0.00
00:42:00	56	2354.2	100.4	1042.1	54.4	379.4	699.19	49.5	0.0	0.0	0.000	0.000	0.590	0.50	0.00
00:43:00	56	2353.7	100.7	1038.0	54.7	385.5	695.69	49.8	0.0	0.0	0.000	0.000	0.590	0.50	0.00
00:44:00	Increased to	58/64" adju	ustable ch	oke.											
00:44:00	58	2353.7	100.8	1023.3	54.9	392.4	692.93	50.0	0.0	0.0	0.000	0.000	0.590	0.50	0.00
00:45:00	58	2349.4	100.9	1055.6	55.0	398.8	700.29	50.0	0.0	0.0	0.000	0.000	0.590	0.50	0.00
00:46:00	58	2349.4	101.2	1058.1	55.3	402.4	704.83	50.4	0.0	0.0	0.000	0.000	0.590	0.50	0.00
00:47:00	Leak in ESD	line caused	d by line c	ontacting c	ompressoi	r exhaust.									
00:47:00	58	2349.4	101.4	1055.8	55.6	409.2	706.61	50.6	0.0	0.0	0.000	0.000	0.590	0.50	0.00
00:48:00	Closed chok	e manifold.													
00:48:00	0	3.4	93.9	5.4	54.4	427.4	567.94	49.9	0.0	0.0	0.000	0.000	0.590	0.50	0.00
00:49:00	0	3.2	89.8	4.6	53.5	415.9	460.86	47.4	0.0	0.0	0.000	0.000	0.590	0.50	0.00
00:50:00	0	2.8	88.2	2.8	53.0	402.4	377.27	45.6	0.0	0.0	0.000	0.000	0.590	0.50	0.00
00:51:00	0	2.8	87.3	2.2	52.6	387.3	307.85	44.1	0.0	0.0	0.000	0.000	0.590	0.50	0.00
00:52:00	0	2.8	86.8	1.4	52.3	372.8	250.38	43.0	1.5	0.0	0.000	0.000	0.590	0.50	0.00
00:53:00	0	3.0	86.3	0.9	52.1	356.9	202.98	42.3	4.7	0.0	0.000	0.000	0.590	0.50	0.00
00:54:00	0	3.0	85.9	0.9	52.0	342.4	163.17	42.1	5.8	0.0	0.000	0.000	0.590	0.50	0.00
00:55:00	0	3.0	85.5	0.3	51.8	330.7	130.18	41.8	7.3	0.0	0.000	0.000	0.590	0.50	0.00
00:56:00	Ō	3.0	85.0	0.3	51.8	316.6	103.32	41.8	8.8	0.0	0.000	0.000	0.590	0.50	0.00
00:57:00	Ö	3.0	84.5	0.1	51.7	304.7	81.36	42.0	9.0	0.0	0.000	0.000	0.590	0.50	0.00
00:58:00	FWV on flow				-										
		•													

Well No. Casino 5 Location Ocean Patriot

Test No. Completion Dates From/To 03/07/05 - 05/07/05

Gas1Cum GasSG Factor 0.000 0.590 0.000 0.590 0.000 0.590 0.000 0.590 0.000 0.590	Co2 H2S mol% ppm 0.50 0.00 0.50 0.00 0.50 0.00
0.000 0.590 0.000 0.590 0.000 0.590	0.50
0.000 0.590 0.000 0.590	0.50 0.00
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	0.000 0.590 0.000 0.590

Well No. Casino 5 Location Ocean Patriot

Test No. Completion Dates From/To 03/07/05 - 05/07/05

Time hh:mm:ss	Choke 64th	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG	GasP PSIG	GasT °F	GasD INWG	Orif Size	QGas1av MMscf/d	Gas1Cum MMscf	GasSG Factor	Co2 mol%	H2S ppm
05/07/05															
01:29:00	0	2492.3	72.7	0.0	51.8	77.0	0.00	50.9	0.3	0.0	0.000	0.000	0.590	0.50	0.00
01:30:00	0	2492.3	72.2	0.0	51.8	73.5	0.00	51.0	0.3	0.0	0.000	0.000	0.590	0.50	0.00
01:31:00	0	2492.1	71.7	0.0	51.8	70.0	0.00	51.1	0.3	0.0	0.000	0.000	0.590	0.50	0.00
01:32:00	0	2492.3	71.2	0.0	51.8	70.0	0.00	51.1	0.3	0.0	0.000	0.000	0.590	0.50	0.00
01:33:00	Opened wel			choke to p				•							
01:33:00	16	2491.9	70.7	0.0	51.8	66.4	0.00	51.2	0.3	0.0	0.000	0.000	0.590	0.50	0.00
01:34:00	Gradually in	creased to	60/64" adi	ustable.											
01:34:00	60	2486.2	70.3	181.1	51.6	62.9	3.53	51.2	0.0	0.0	0.000	0.000	0.590	0.50	0.00
01:35:00	60	2388.1	70.1	929.9	45.1	55.3	77.93	34.8	0.0	0.0	0.000	0.000	0.590	0.50	0.00
01:36:00	60	2318.8	70.9	1158.6	41.5	55.1	221.99	4.1	0.0	0.0	0.000	0.000	0.590	0.50	0.00
01:37:00	Diverted thre	ough a 60/6	4" fixed cl	noke.											
01:37:00	60	2323.5	75.2	1147.0	42.7	67.0	357.34	2.7	0.0	0.0	0.000	0.000	0.590	0.50	0.00
01:38:00	Diverted flow	w through te	est separa	tor.											
01:38:00	60	2346.0	79.2	1048.7	44.5	82.5	466.63	9.1	0.0	0.0	0.000	0.000	0.590	0.50	0.00
01:39:00	Commenced	d methanol i	injection u	ipstream of	Surface S	afety Valve	е.								
01:39:00	60	2347.8	82.0	1074.8	45.6	98.3	557.58	15.2	0.0	0.0	0.000	0.000	0.590	0.50	0.00
01:40:00	60	2348.0	84.0	1085.5	46.5	113.4	622.89	20.0	0.0	0.0	0.000	0.000	0.590	0.50	0.00
01:41:00	60	2347.8	85.7	1088.5	47.3	128.9	665.76	23.9	0.0	0.0	0.000	0.000	0.590	0.50	0.00
01:42:00	60	2347.6	87.2	1097.9	48.0	146.9	692.93	26.9	0.2	0.0	0.000	0.000	0.590	0.50	0.00
01:43:00	60	2347.6	88.3	1106.9	48.6	162.4	710.10	29.3	0.7	0.0	0.000	0.000	0.590	0.50	0.00
01:44:00	60	2347.4	89.5	1103.0	49.2	177.0	719.43	31.7	0.0	0.0	0.000	0.000	0.590	0.50	0.00
01:45:00	Gas SG - 0.7	'0 8.													
01:45:00	Draeger indi	icated 0.5%	CO2, and	0ppm H2S.											
01:45:00	60	2347.0	90.5	1111.6	49.7	189.4	725.07	34.1	0.0	0.0	0.000	0.000	0.590	0.50	0.00
01:46:00	60	2347.0	91.3	1131.5	50.2	205.2	729.06	36.6	0.0	0.0	0.000	0.000	0.590	0.50	0.00
01:47:00	60	2346.6	92.1	1120.8	50.7	219.7	731.82	38.3	0.0	0.0	0.000	0.000	0.590	0.50	0.00
01:48:00	60	2345.8	92.7	1097.5	51.4	232.6	748.37	51.4	0.0	0.0	0.000	0.000	0.590	0.50	0.00
01:49:00	60	2347.0	93.3	1105.3	51.8	246.1	734.64	45.6	0.0	0.0	0.000	0.000	0.590	0.50	0.00
01:50:00	60	2347.4	94.0	1090.6	52.3	258.3	714.40	42.0	2.2	0.0	0.000	0.000	0.590	0.50	0.00
01:51:00	Installed 4.7	5" orifice pl		separator (gas meter	run.									
01:51:00	60	2348.0	94.8	1085.9	52.8	269.2	718.38	41.9	63.1	4.8	0.000	0.031	0.590	0.50	0.00

Well No. Casino 5 Location Ocean Patriot

Test No. Completion Dates From/To 03/07/05 - 05/07/05

	· ·														
Time	Choke	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG	GasP PSIG	GasT °F	GasD INWG	Orif Size	QGas1av MMscf/d	Gas1Cum MMscf	GasSG	Co2	H2S
hh:mm:ss	64th	PSIG	-	PSIG	7	PSIG	PSIG	7	INWG	ins	WIWISCT/Q	WIWISCT	Factor	mol%	ppm
<u>05/07/05</u>															
01:52:00	60	2348.6	95.3	1084.8	53.1	280.6	726.91	41.9	62.1	4.8	0.000	0.062	0.590	0.50	0.00
01:53:00	60	2349.4	95.9	1083.8	53.5	291.6	734.02	42.5	62.1	4.8	0.000	0.093	0.590	0.50	0.00
01:54:00	60	2349.7	96.5	1077.5	53.9	303.1	737.46	43.3	61.9	4.8	0.000	0.125	0.590	0.50	0.00
01:55:00	60	2350.5	96.9	1073.4	54.1	313.9	738.56	43.2	60.3	4.8	44.806	0.156	0.590	0.50	0.00
01:56:00	60	2350.5	97.2	1078.7	54.3	324.1	746.17	43.3	61.1	4.8	44.806	0.187	0.590	0.50	0.00
01:57:00	60	2351.1	97.6	1086.5	54.5	334.4	752.18	43.7	60.0	4.8	44.806	0.218	0.590	0.50	0.00
01:58:00	60	2350.9	97.9	1082.4	54.7	344.0	750.46	44.0	61.4	4.8	44.806	0.249	0.590	0.50	0.00
01:59:00	60	2351.9	98.3	1084.0	54.9	351.1	756.16	44.4	60.5	4.8	44.806	0.281	0.590	0.50	0.00
02:00:00	Draeger indi	cated 0.8%	CO2, and	0ppm H2S.											
02:00:00	60	2351.9	98.6	1086.3	55.1	361.1	758.98	44.8	59.4	4.8	44.920	0.312	0.590	0.50	0.00
02:01:00	60	2353.3	99.0	1089.1	55.3	372.0	760.76	45.1	60.2	4.8	44.920	0.343	0.590	0.50	0.00
02:02:00	60	2353.5	99.4	1095.9	55.6	381.8	763.21	45.9	59.9	4.8	44.920	0.374	0.590	0.50	0.00
02:03:00	60	2353.5	99.8	1090.6	55.9	388.8	763.15	46.1	60.4	4.8	44.920	0.405	0.590	0.50	0.00
02:04:00	60	2353.9	100.1	1094.5	56.1	395.9	764.20	46.4	58.5	4.8	44.920	0.436	0.590	0.50	0.00
02:05:00	60	2353.7	100.3	1095.9	56.2	405.9	763.71	46.5	59.6	4.8	44.841	0.467	0.590	0.50	0.00
02:06:00	60	2354.4	100.7	1100.2	56.5	413.7	766.96	47.1	59.2	4.8	44.841	0.498	0.590	0.50	0.00
02:07:00	60	2354.4	101.0	1104.9	56.7	420.9	771.49	47.5	58.0	4.8	44.841	0.529	0.590	0.50	0.00
02:08:00	60	2354.6	101.2	1107.7	57.0	428.0	776.77	47.9	59.2	4.8	44.841	0.560	0.590	0.50	0.00
02:09:00	60	2354.8	101.5	1110.8	57.2	437.0	779.96	48.4	57.8	4.8	44.841	0.591	0.590	0.50	0.00
02:10:00	60	2355.2	101.7	1110.0	57.4	444.1	777.26	48.6	57.8	4.8	44.596	0.622	0.590	0.50	0.00
02:11:00	60	2355.6	102.0	1110.2	57.6	450.5	777.26	48.9	57.9	4.8	44.596	0.653	0.590	0.50	0.00
02:12:00	60	2355.6	102.3	1108.1	57.8	457.6	773.27	49.2	63.0	4.8	44.596	0.685	0.590	0.50	0.00
02:13:00	60	2355.8	102.6	1104.7	58.0	463.2	769.66	49.2	65.8	4.8	44.596	0.718	0.590	0.50	0.00
02:14:00	60	2356.6	102.8	1104.0	58.2	469.5	768.67	49.2	65.3	4.8	44.596	0.750	0.590	0.50	0.00
02:15:00	Gas SG - 0.6														
02:15:00	Radon - 116	Bg/m3.													
02:15:00	60	2356.6	103.0	1104.5	58.4	476.7	769.78	49.6	66.7	4.8	46.370	0.783	0.590	0.50	0.00
02:16:00	60	2357.0	103.3	1101.4	58.5	483.0	764.20	49.8	69.4	4.8	46.370	0.817	0.590	0.50	0.00
02:17:00	60	2356.8	103.5	1101.6	58.6	489.9	764.69	49.7	69.0	4.8	46.370	0.850	0.590	0.50	0.00
02:18:00	60	2357.6	103.5	1102.4	58.7	496.7	765.85	49.5	67.3	4.8	46.370	0.883	0.590	0.50	0.00
02:19:00	60	2358.2	103.7	1104.9	58.8	500.0	767.57	49.9	65.2	4.8	46.370	0.915	0.590	0.50	0.00
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Well No. Casino 5 Location Ocean Patriot

Test No. Completion Dates From/To 03/07/05 - 05/07/05

Time	Choke	UcP	UcT	DcP	DcT	AnnP	GasP	GasT	GasD	Orif Size	QGas1av	Gas1Cum	GasSG	Co2	H2S
hh:mm:ss	64th	PSIG	°F	PSIG	°F	PSIG	PSIG	°F	INWG	ins	MMscf/d	MMscf	Factor	mol%	ppm
05/07/05															
02:20:00	60	2358.2	104.0	1105.7	58.9	507.1	768.12	50.4	64.6	4.8	47.347	0.948	0.590	0.50	0.00
02:21:00	60	2358.7	104.2	1100.6	59.1	513.3	761.87	50.4	68.9	4.8	47.347	0.981	0.590	0.50	0.00
02:22:00	60	2358.8	104.3	1098.7	59.1	519.6	757.88	50.3	67.2	4.8	47.347	1.013	0.590	0.50	0.00
02:23:00	60	2359.1	104.5	1098.1	59.2	522.6	758.98	50.2	67.3	4.8	47.347	1.046	0.590	0.50	0.00
02:24:00	Bled down a	nnulus pre	essure.												
02:24:00	60	2359.5	104.5	1101.4	59.3	517.3	762.60	50.5	62.3	4.8	47.347	1.078	0.590	0.50	0.00
02:25:00	60	2359.5	104.8	1102.0	59.5	290.4	764.01	51.0	60.3	4.8	46.450	1.109	0.590	0.50	0.00
02:26:00	60	2360.1	105.1	1105.1	59.6	152.0	768.37	51.9	63.5	4.8	46.450	1.141	0.590	0.50	0.00
02:27:00	60	2360.1	105.2	1095.3	59.7	157.9	752.79	51.0	64.1	4.8	46.450	1.173	0.590	0.50	0.00
02:28:00	60	2360.3	105.3	1091.8	59.7	161.4	749.48	50.9	64.3	4.8	46.450	1.204	0.590	0.50	0.00
02:29:00	60	2360.7	105.4	1091.0	59.7	164.5	748.86	50.5	63.8	4.8	46.450	1.236	0.590	0.50	0.00
02:30:00	Draeger indi	cated 0.7%	CO2, and	0ppm H2S.											
02:30:00	60	2360.9	105.6	1095.5	59.8	168.2	753.40	51.1	62.6	4.8	45.643	1.267	0.590	0.75	0.00
02:31:00	60	2361.3	105.8	1096.9	59.9	173.9	757.27	51.5	63.0	4.8	45.643	1.299	0.590	0.75	0.00
02:32:00	60	2361.5	106.0	1102.0	60.1	177.0	765.30	52.1	62.0	4.8	45.643	1.330	0.590	0.75	0.00
02:33:00	60	2362.3	106.1	1096.1	60.1	180.8	757.64	52.0	64.7	4.8	45.643	1.362	0.590	0.75	0.00
02:34:00	60	2362.5	106.2	1094.5	60.2	183.9	755.55	51.9	64.3	4.8	45.643	1.394	0.590	0.75	0.00
02:35:00	60	2362.5	106.3	1097.9	60.2	187.0	757.82	52.0	62.3	4.8	45.554	1.425	0.590	0.75	0.00
02:36:00	60	2362.9	106.5	1099.6	60.3	190.1	759.54	52.5	62.5	4.8	45.554	1.457	0.590	0.75	0.00
02:37:00	60	2363.2	106.7	1100.6	60.4	193.5	765.85	52.6	59.9	4.8	45.554	1.488	0.590	0.75	0.00
02:38:00	60	2363.2	106.9	1099.0	60.6	197.0	763.15	53.3	64.8	4.8	45.554	1.520	0.590	0.75	0.00
02:39:00	60	2363.6	107.0	1091.2	60.7	200.3	754.51	53.0	64.0	4.8	45.554	1.552	0.590	0.75	0.00
02:40:00	60	2363.8	107.1	1088.7	60.7	203.5	752.79	52.6	64.8	4.8	45.489	1.583	0.590	0.75	0.00
02:41:00	60	2364.0	107.2	1092.0	60.7	206.6	755.06	52.8	63.8	4.8	45.489	1.615	0.590	0.75	0.00
02:42:00	60	2364.4	107.3	1092.8	60.8	210.1	760.70	53.1	61.5	4.8	45.489	1.646	0.590	0.75	0.00
02:43:00	60	2364.4	107.5	1093.2	60.9	212.9	760.70	53.5	62.3	4.8	45.489	1.678	0.590	0.75	0.00
02:44:00	60	2364.6	107.7	1090.2	61.0	216.6	759.54	53.7	63.1	4.8	45.489	1.709	0.590	0.75	0.00
02:45:00	60	2364.8	107.8	1092.0	61.0	219.5	762.54	53.8	62.8	4.8	45.301	1.741	0.590	0.75	0.00
02:46:00	60	2365.0	107.9	1091.4	61.1	222.6	761.31	54.0	62.5	4.8	45.301	1.772	0.590	0.75	0.00
02:47:00	60	2364.8	108.1	1093.4	61.1	226.2	763.21	54.5	62.5	4.8	45.301	1.804	0.590	0.75	0.00
02:48:00	60	2364.6	108.2	1087.7	61.2	228.7	757.82	54.3	63.9	4.8	45.301	1.835	0.590	0.75	0.00

Well No. Casino 5 Location Ocean Patriot

Test No. Completion Dates From/To 03/07/05 - 05/07/05

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Time hh:mm:ss	Choke 64th	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG	GasP PSIG	GasT °F	GasD INWG	Orif Size	QGas1av MMscf/d	Gas1Cum MMscf	GasSG Factor	Co2 mol%	H2S ppm
05/07/05															
02:49:00	60	2364.8	108.1	1092.4	61.2	231.8	765.30	54.0	60.5	4.8	45.301	1.866	0.590	0.75	0.00
02:50:00	60	2365.6	108.2	1096.1	61.3	234.8	768.61	54.5	62.0	4.8	45.200	1.898	0.590	0.75	0.00
02:51:00	60	2365.4	108.4	1096.1	61.4	237.7	764.75	54.8	63.3	4.8	45.200	1.929	0.590	0.75	0.00
02:52:00	60	2365.6	108.6	1093.2	61.5	240.5	764.75	55.1	63.5	4.8	45.200	1.961	0.590	0.75	0.00
02:53:00	60	2366.0	108.6	1091.6	61.6	241.2	766.34	55.0	62.9	4.8	45.200	1.993	0.590	0.75	0.00
02:54:00	60	2365.8	108.8	1092.0	61.6	244.6	766.40	55.3	62.3	4.8	45.200	2.024	0.590	0.75	0.00
02:55:00	60	2366.2	108.8	1088.9	61.7	247.7	763.71	55.1	63.8	4.8	45.537	2.056	0.590	0.75	0.00
02:56:00	60	2366.8	108.9	1093.2	61.7	251.2	765.24	55.4	63.6	4.8	45.537	2.087	0.590	0.75	0.00
02:57:00	60	2366.6	109.1	1091.0	61.9	251.2	766.96	55.6	63.1	4.8	45.537	2.119	0.590	0.75	0.00
02:58:00	60	2366.8	109.2	1091.2	62.0	254.2	768.37	55.8	62.2	4.8	45.537	2.151	0.590	0.75	0.00
02:59:00	60	2366.8	109.3	1092.4	62.0	257.7	770.33	55.8	62.6	4.8	45.537	2.182	0.590	0.75	0.00
03:00:00	Gas SG - 0.6														-
03:00:00	Draeger indi		CO2. and	0ppm H2S.											
03:00:00	60	2367.2	109.3	1094.0	62.1	260.8	773.83	56.0	61.5	4.8	45.410	2.213	0.590	0.75	0.00
03:01:00	60	2367.2	109.3	1095.7	62.1	260.8	776.77	56.0	61.4	4.8	45.410	2.245	0.590	0.70	0.00
03:02:00	60	2367.2	109.3	1095.7	62.1	264.1	776.09	56.1	61.9	4.8	45.410	2.276	0.590	0.70	0.00
03:03:00	60	2367.6	109.4	1096.1	62.2	267.3	778.42	56.3	61.1	4.8	45.410	2.308	0.590	0.70	0.00
03:04:00	60	2367.2	109.5	1097.5	62.3	267.9	780.88	56.6	61.0	4.8	45.410	2.339	0.590	0.70	0.00
03:05:00	60	2367.4	109.6	1096.5	62.4	270.8	780.82	56.7	61.7	4.8	45.254	2.371	0.590	0.70	0.00
03:06:00	60	2367.8	109.7	1100.2	62.4	271.2	782.60	56.7	60.5	4.8	45.254	2.402	0.590	0.70	0.00
03:07:00	60	2367.8	109.8	1098.7	62.4	274.7	783.09	57.0	60.7	4.8	45.254	2.433	0.590	0.70	0.00
03:08:00	60	2367.8	109.9	1100.0	62.6	277.9	783.15	57.1	61.6	4.8	45.254	2.465	0.590	0.70	0.00
03:09:00	60	2367.8	110.0	1097.7	62.7	277.9	782.60	57.5	60.8	4.8	45.254	2.496	0.590	0.70	0.00
03:10:00	60	2367.8	110.2	1097.5	62.8	280.6	782.10	57.6	60.9	4.8	45,146	2.527	0.590	0.70	0.00
03:11:00	60	2368.5	110.2	1096.7	62.7	284.1	780.88	57.6	61.9	4.8	45,146	2.559	0.590	0.70	0.00
03:12:00	60	2368.5	110.3	1087.5	62.8	284.5	768.00	57.4	64.7	4.8	45,146	2.591	0.590	0.70	0.00
03:13:00	60	2368.9	110.4	1087.1	62.9	287.8	767.57	57.3	62.8	4.8	45.146	2.622	0.590	0.70	0.00
03:14:00	60	2369.1	110.5	1089.7	62.8	287.6	769.72	57.4	62.7	4.8	45.146	2.654	0.590	0.70	0.00
03:15:00	Water SG - 1							****							
03:15:00	Radon - 82 E	•	=												
03:15:00	60	2369.3	110.5	1091.8	62.9	291.6	773.21	57.4	62.6	4.8	45.517	2.685	0.590	0.70	0.00
							D 10			_		_			

Well No. Casino 5 Location Ocean Patriot

Test No. Completion **Dates From/To** 03/07/05 - 05/07/05

	•														
Time hh:mm:ss	Choke 64th	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG	GasP PSIG	GasT °F	GasD INWG	Orif Size ins	QGas1av MMscf/d	Gas1Cum MMscf	GasSG Factor	Co2 mol%	H2S ppm
05/07/05															
03:16:00	60	2368.9	110.6	1094.9	62.8	291.6	774.38	57.6	62.0	4.8	45.517	2.717	0.590	0.70	0.00
03:17:00	60	2369.1	110.7	1092.4	62.9	294.7	773.27	57.6	62.3	4.8	45.517	2.748	0.590	0.70	0.00
03:18:00	60	2369.1	110.8	1094.0	62.9	295.3	774.93	57.9	62.0	4.8	45.517	2.780	0.590	0.70	0.00
03:19:00	60	2369.3	110.9	1094.9	63.0	298.4	776.09	58.0	61.1	4.8	45.517	2.811	0.590	0.70	0.00
03:20:00	60	2368.9	110.9	1094.5	63.0	298.4	776.09	58.0	62.0	4.8	45.213	2.842	0.590	0.70	0.00
03:21:00	60	2369.3	111.0	1092.8	63.0	301.9	773.27	58.0	62.1	4.8	45.213	2.874	0.590	0.70	0.00
03:22:00	60	2369.3	111.0	1092.0	63.0	302.3	770.94	58.0	62.5	4.8	45.213	2.905	0.590	0.70	0.00
03:23:00	60	2369.1	111.2	1090.4	63.1	305.3	769.17	58.2	63.6	4.8	45.213	2.937	0.590	0.70	0.00
03:24:00	Obtained PV	T gas samı	ple No: 1.0	1 (20L bottl		71).									
03:24:00	60	2369.5	111.2	1090.8	63.2	305.8	770.33	58.0	63.1	4.8	45.213	2.968	0.590	0.70	0.00
03:25:00	60	2369.5	111.2	1091.8	63.2	309.0	771.56	58.1	62.3	4.8	45.372	3.000	0.590	0.70	0.00
03:26:00	60	2369.5	111.2	1093.6	63.3	309.2	774.93	58.2	61.6	4.8	45.372	3.031	0.590	0.70	0.00
03:27:00	60	2369.5	111.3	1093.8	63.4	309.4	773.76	58.5	62.4	4.8	45.372	3.063	0.590	0.70	0.00
03:28:00	60	2369.5	111.3	1093.6	63.5	312.7	773.76	58.3	61.7	4.8	45.372	3.094	0.590	0.70	0.00
03:29:00	60	2369.5	111.3	1093.2	63.5	313.5	774.44	58.3	61.5	4.8	45.372	3.125	0.590	0.70	0.00
03:30:00	60	2369.7	111.3	1094.9	63.4	313.7	776.71	58.2	61.6	4.8	45.120	3.157	0.590	0.70	0.00
03:31:00	60	2369.9	111.3	1095.3	63.4	316.8	778.42	58.4	62.3	4.8	45.120	3.188	0.590	0.70	0.00
03:32:00	60	2369.7	111.4	1091.4	63.4	316.6	772.23	58.4	63.4	4.8	45.120	3.220	0.590	0.70	0.00
03:33:00	60	2369.7	111.4	1091.6	63.4	320.5	772.23	58.3	62.7	4.8	45.120	3.251	0.590	0.70	0.00
03:34:00	60	2369.7	111.5	1091.2	63.5	320.5	773.83	58.4	61.7	4.8	45.120	3.283	0.590	0.70	0.00
03:35:00	Chlorides - 7	•													
03:35:00	Alkalinity - 8	92 mg/L Ca	Co3eqv.												
03:35:00	pH - 6.14 @	11.3 °C.													
03:35:00	Conductivity	/ - 44.6 mS/	cm @ 11.3	°C.											
03:35:00	Resistivity -	0.022 Ohm	-m @ 11.3	°C.											
03:35:00	Water SG - 1	.088 @ 12.5	5 °C.												
03:35:00	60	2370.1	111.5	1090.6	63.5	320.7	771.56	58.6	63.3	4.8	45.419	3.314	0.590	0.70	0.00
03:36:00	60	2370.3	111.7	1088.1	63.5	323.8	769.17	58.7	62.6	4.8	45.419	3.346	0.590	0.70	0.00
03:37:00	60	2370.7	111.8	1085.0	63.6	324.4	764.75	58.9	62.9	4.8	45.419	3.377	0.590	0.70	0.00
03:38:00	60	2370.9	112.0	1085.3	63.6	327.6	764.75	58.8	62.7	4.8	45.419	3.408	0.590	0.70	0.00
03:39:00	60	2370.7	112.1	1086.5	63.7	327.4	765.85	59.0	62.8	4.8	45.419	3.440	0.590	0.70	0.00
							D 40								

Well No. Casino 5 Location Ocean Patriot

Test No. Completion Dates From/To 03/07/05 - 05/07/05

Time hh:mm:ss	Choke 64th	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG	GasP PSIG	GasT °F	GasD INWG	Orif Size	QGas1av MMscf/d	Gas1Cum MMscf	GasSG Factor	Co2 mol%	H2S ppm
1111.11111.55	0401	1 313	•	1 010	•	1 010	100	•	iiiiii	1113	WWW.SCI/G	WIWISCI	1 actor	1110170	ppiii
<u>05/07/05</u>															
03:40:00	60	2370.9	112.2	1081.2	63.8	327.8	759.54	59.2	63.5	4.8	45.173	3.471	0.590	0.70	0.00
03:41:00	60	2370.9	112.3	1078.3	63.8	330.9	756.71	58.8	63.1	4.8	45.173	3.502	0.590	0.70	0.00
03:42:00	60	2370.9	112.2	1080.5	63.8	331.3	760.15	58.7	62.5	4.8	45.173	3.534	0.590	0.70	0.00
03:43:00	60	2370.9	112.3	1083.2	63.8	333.8	763.65	58.8	62.7	4.8	45.173	3.565	0.590	0.70	0.00
03:44:00	Radon - 112	•													
03:44:00	60	2370.7	112.4	1083.6	63.9	334.4	764.75	59.2	62.6	4.8	45.173	3.596	0.590	0.70	0.00
03:45:00	60	2370.7	112.4	1085.9	63.9	334.4	766.34	59.3	62.4	4.8	45.003	3.627	0.590	0.70	0.00
03:46:00	60	2370.7	112.5	1082.6	64.0	337.6	763.15	59.4	62.8	4.8	45.003	3.659	0.590	0.70	0.00
03:47:00	60	2371.1	112.5	1083.2	64.0	337.4	764.75	59.3	62.3	4.8	45.003	3.690	0.590	0.70	0.00
03:48:00	60	2370.9	112.5	1083.0	64.0	337.6	763.21	59.2	63.2	4.8	45.003	3.721	0.590	0.70	0.00
03:49:00	60	2370.9	112.7	1081.8	64.1	340.3	762.30	59.5	63.5	4.8	45.003	3.753	0.590	0.70	0.00
03:50:00	60	2370.9	112.6	1083.8	64.2	340.3	765.30	59.4	64.4	4.8	45.221	3.784	0.590	0.70	0.00
03:51:00	60	2370.9	112.6	1084.2	64.1	343.4	766.34	59.3	63.0	4.8	45.221	3.816	0.590	0.70	0.00
03:52:00	60	2371.3	112.6	1084.8	64.0	343.8	767.63	59.4	62.8	4.8	45.221	3.847	0.590	0.70	0.00
03:53:00	60	2370.9	112.8	1084.0	64.2	344.0	766.40	59.9	63.6	4.8	45.221	3.879	0.590	0.70	0.00
03:54:00	Obtained PV	T gas sam	ple No: 1.0	2 (20L bottl	e no: A-01	68).									
03:54:00	60	2371.1	112.9	1082.2	64.2	346.4	762.54	59.7	62.3	4.8	45.221	3.910	0.590	0.70	0.00
03:55:00	60	2371.3	112.8	1080.3	64.2	347.1	761.31	59.4	63.6	4.8	45.192	3.941	0.590	0.70	0.00
03:56:00	60	2371.3	112.8	1082.4	64.2	347.3	764.20	59.5	62.4	4.8	45.192	3.973	0.590	0.70	0.00
03:57:00	60	2371.1	112.9	1083.8	64.2	350.9	766.22	59.7	62.5	4.8	45.192	4.004	0.590	0.70	0.00
03:58:00	60	2371.3	112.8	1084.6	64.2	350.9	766.96	59.5	62.6	4.8	45.192	4.035	0.590	0.70	0.00
03:59:00	60	2371.7	112.8	1085.9	64.2	350.9	768.67	59.5	62.1	4.8	45.192	4.066	0.590	0.70	0.00
04:00:00	60	2372.1	112.9	1085.7	64.3	351.3	768.12	59.8	62.4	4.8	45.024	4.098	0.590	0.70	0.00
04:01:00	60	2371.7	113.1	1084.4	64.4	351.1	766.16	60.2	63.1	4.8	45.024	4.129	0.590	0.70	0.00
04:02:00	60	2371.7	113.1	1083.0	64.5	354.8	764.20	60.0	63.4	4.8	45.024	4.160	0.590	0.70	0.00
04:03:00	60	2371.5	113.0	1080.8	64.4	354.8	763.15	59.6	63.2	4.8	45.024	4.192	0.590	0.70	0.00
04:04:00	60	2372.1	113.0	1083.6	64.4	355.6	766.40	59.7	61.8	4.8	45.024	4.223	0.590	0.70	0.00
04:05:00	60	2371.9	113.1	1086.1	64.4	358.1	769.17	60.0	62.3	4.8	45.090	4.254	0.590	0.70	0.00
04:06:00	60	2371.7	113.1	1086.7	64.5	358.1	770.33	60.0	61.5	4.8	45.090	4.285	0.590	0.70	0.00
04:07:00	60	2372.3	113.1	1088.3	64.5	358.3	771.62	60.2	62.4	4.8	45.090	4.317	0.590	0.70	0.00
04:08:00	60	2371.9	113.3	1086.7	64.6	358.9	769.84	60.5	63.2	4.8	45.090	4.348	0.590	0.70	0.00

Well No. Casino 5 Location Ocean Patriot

Test No. Completion **Dates From/To** 03/07/05 - 05/07/05

Time hh:mm:ss	Choke 64th	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG	GasP PSIG	GasT °F	GasD INWG	Orif Size ins	QGas1av MMscf/d	Gas1Cum MMscf	GasSG Factor	Co2 mol%	H2S ppm
05/07/05															
04:09:00	60	2371.9	113.3	1087.3	64.6	362.0	770.94	60.5	62.4	4.8	45.090	4.379	0.590	0.70	0.00
04:10:00	60	2372.3	113.3	1090.4	64.6	362.0	773.76	60.3	61.6	4.8	45.055	4.411	0.590	0.70	0.00
04:11:00	60	2372.3	113.3	1089.7	64.6	362.4	774.38	60.6	62.3	4.8	45.055	4.442	0.590	0.70	0.00
04:12:00	60	2372.3	113.4	1085.9	64.7	365.2	768.61	60.7	62.9	4.8	45.055	4.473	0.590	0.70	0.00
04:13:00	60	2371.9	113.4	1081.2	64.6	365.4	763.21	60.3	64.0	4.8	45.055	4.505	0.590	0.70	0.00
04:14:00	Lifted 4.75"	orifice plate	e from test	separator g	gas meter i	run.									
04:14:00	60	2372.3	113.2	1083.4	64.5	365.4	764.75	59.7	62.6	0.0	45.055	4.505	0.590	0.70	0.00
04.45.00	01			0 1											

04:15:00 Closed in well at choke manifold. Stopped methanol injection upstream of Surface Safety Valve.

04:15:00 Average water rate through separator on 60/64" Choke - 24 bbls/d.

04:15:00 Clean-up criteria established: 1: BS&W <3% - not measurable, 2: Stable THP - <10 psi/5 min change over 2 hours, 3: Stable gas rate - 45 MMscf/d 4: WGR <0.5 bbl/MMscf - estimated LGR <0.5 bbl/MMscf.

04:15:00 Obtained gas sample No: 1.03 (150cc bottle no: W-015).



Choke - (64th)

Client Santos Ltd
Well No. Casino 5
Test No. Completion
-Location Ocean Patriot

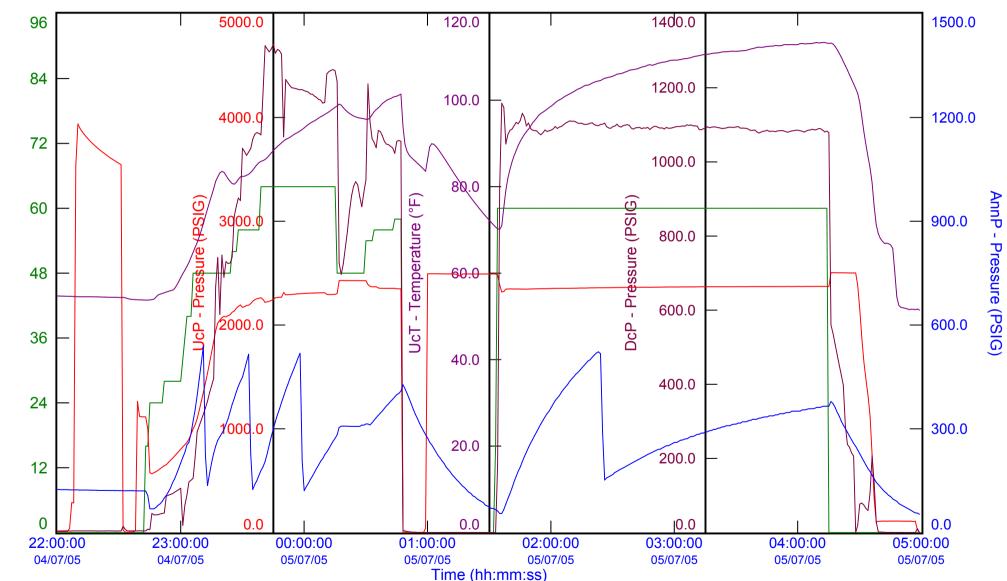
Data Type EDGE Data

Comments Choke Parameters

Clean Up Flow Period

(complete test)







Choke - (64th)

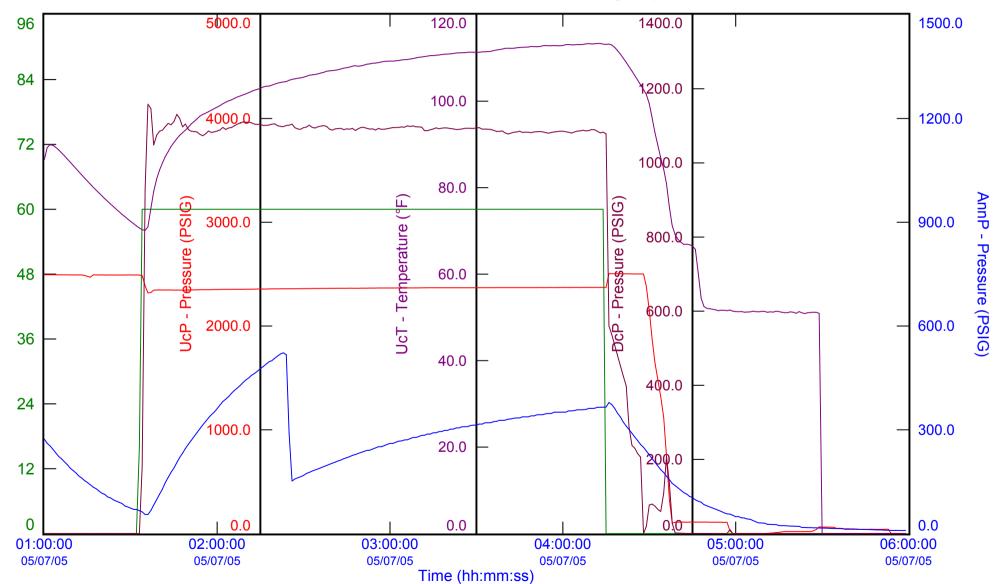
Client Santos LtdWell No. Casino 5Test No. CompletionLocation Ocean Patriot

Data Type EDGE Data

Comments Choke Parameters

Clean Up Flow Period (through separator)





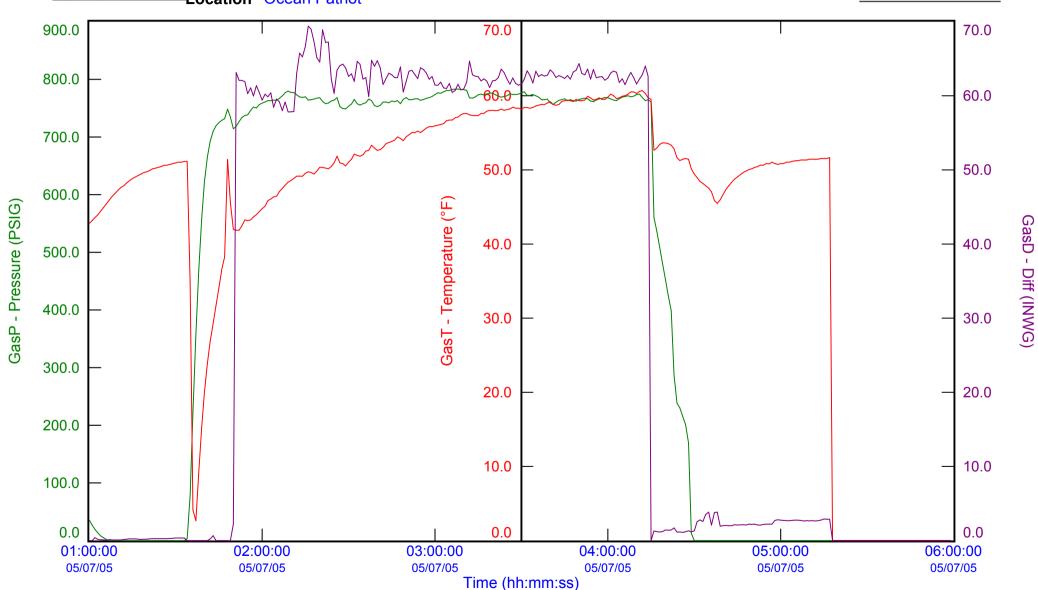


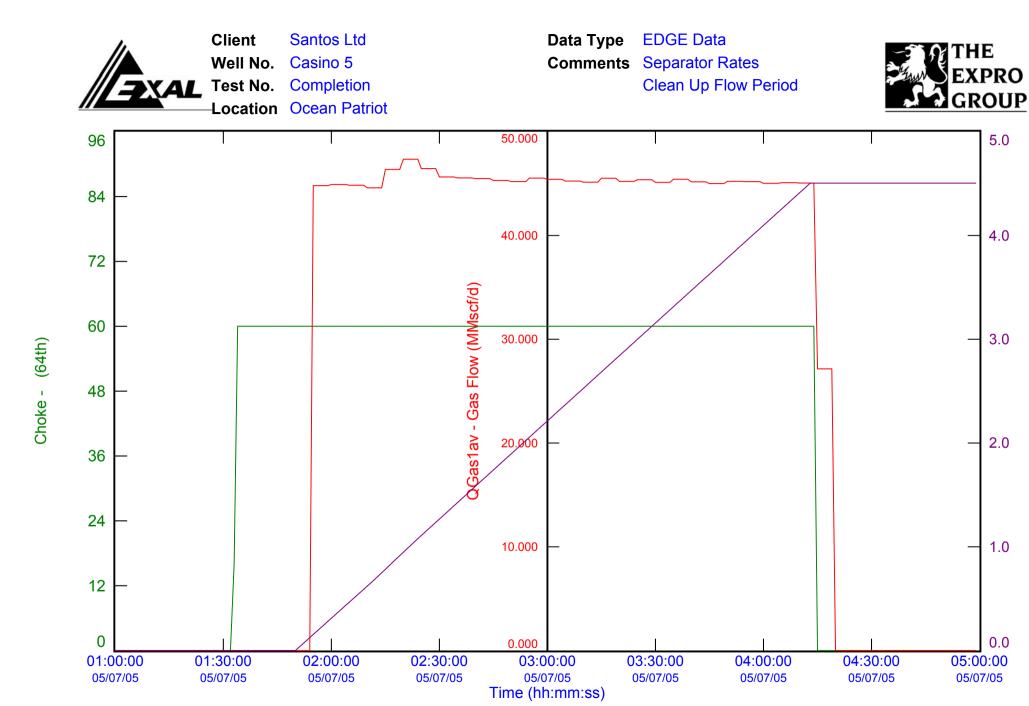
Client Santos Ltd
Well No. Casino 5
Test No. Completion
-Location Ocean Patriot

Data Type EDGE Data

Comments Separator Parameters
Clean Up Flow Period







5.0

4.0

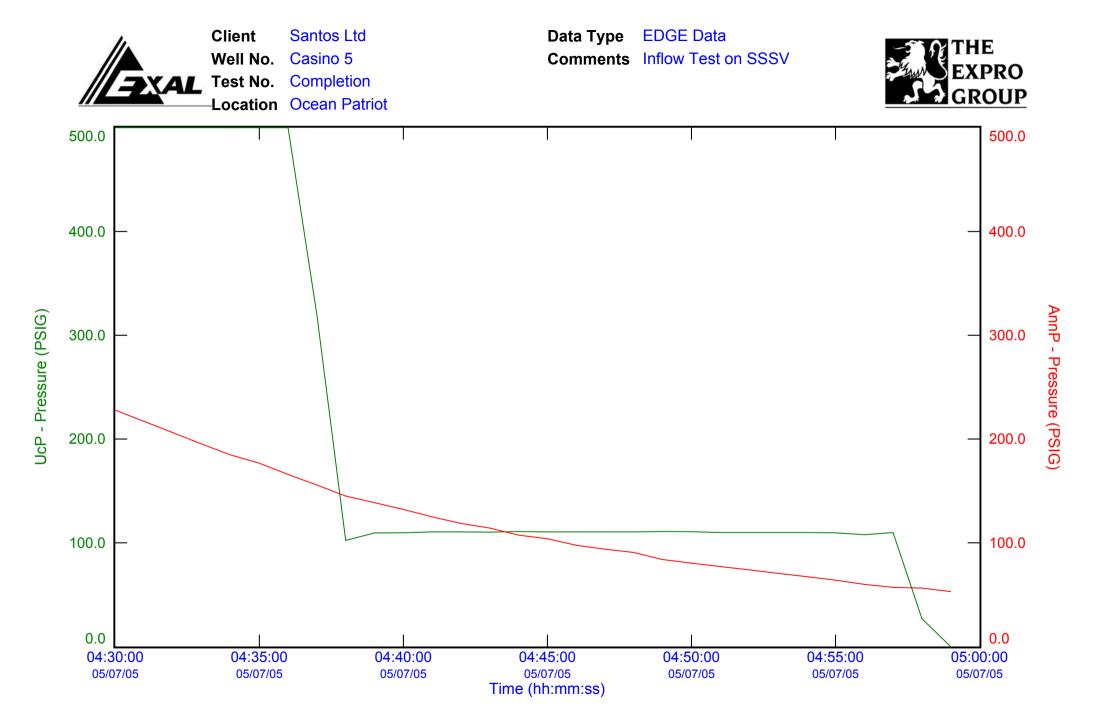
3.0

2.0

1.0

0.0

Gas1Cum - Gas Cumm (MMscf)







Gas Calculations Data Listing

Client Santos Ltd

Well No. Casino 5

Test No. Completion

Location Ocean Patriot

Dates From/To 03/07/05 - 05/07/05

Country Australia

Field Casino

Formation Waarre C Sands

Exal Engineer J. Morrison / B. Tupman

Expro Supervisor F. Beaton

Client Engineer R. King / M. Andronov / P. Nardone

Perforations Expandable Sand Screens

Gas specific gravity of 0.59 used for rate calculations based on PVT analysis performed on gas samples. This over rides the estimate gas specific gravity reported duriong the test.

Santos Ltd J. Morrison / B. Tupman Client Exal Engineer

Well No. Casino 5 Location Ocean Patriot

Test No. Completion **Dates From/To** 03/07/05 - 05/07/05

Time hh:mm:ss	UcP PSIG	Orif Size ins	GasP PSIG	GasT °F	GasD INWG	GasSG Factor	Co2 mol%	H2S ppm	GasFb Factor	GasFr Factor	GasY Factor	GasFpb Factor	GasFtb Factor	GasFtf Factor	GasFgr Factor	GasFpv Factor	GasC Factor	QGas1av MMscf/d	Gas1Cum MMscf
04/07/05																			
22:43:00	Opened well	on 16/64" a	djustable d	hoke to sur	ge tank.														
22:43:00	1114.89	0.000	0.00	54.54	0.00	0.590	0.0	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000
22:45:00	Increased to	24/64" adju	stable cho	ke.															
22:45:00	577.44	0.000	0.00	54.44	0.00	0.590	0.0	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000
22:46:00	Total cumula	ative returns	to surge t	ank - 4.5 bb	ls.														
22:47:00	Total cumula	ative returns	to surge t	ank - 8 bbls															
22:48:00	Total cumula	ative returns	to surge t	ank - 10.5 bl	bls.														
22:49:00	Total cumula	ative returns	to surge t	ank - 12.5 bl	bls.														
22:50:00	Total cumula	ative returns	to surge t	ank - 13.5 b	bls.														
22:50:00	615.67	0.000	0.00	54.44	0.00	0.590	0.0	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000
22:51:00	Total cumula																		
22:52:00	Total cumula				bls.														
22:52:00	Increased to	•																	
22:53:00	Total cumula																		
22:54:00	Total cumula		•																
22:55:00	Total cumula		•																
22:55:00	696.22	0.000	0.00	54.35	0.00	0.590	0.0	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000
22:56:00	Total cumula		•																
22:57:00	Total cumula		•																
22:58:00	Total cumula		•																
22:59:00	Total cumula																		
23:00:00 23:00:00	Total cumula																		
23:00:00	Diverted flow 803.95	0.000	0.00	54.35	0.00	0.590	0.0	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000
23:01:00	Total cumula					0.550	0.0	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000
23:01:00	Increased to		•		ois.														
23:02:00	Increased to	-																	
23:03:00	Increased to	•																	
23:05:00	947.05	0.000	0.00	54.36	0.00	0.590	0.0	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000
23:06:00	Increased to																		
23:10:00	1263.31	0.000	0.00	54.35	0.00	0.590	0.0	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000
									Page 2										

Well No. Casino 5 Location Ocean Patriot

Test No. Completion **Dates From/To** 03/07/05 - 05/07/05

		•																	
Time hh:mm:ss	UcP PSIG	Orif Size	GasP PSIG	GasT °F	GasD INWG	GasSG Factor	Co2 mol%	H2S ppm	GasFb Factor	GasFr Factor	GasY Factor	GasFpb Factor	GasFtb Factor	GasFtf Factor	GasFgr Factor	GasFpv Factor	GasC Factor	QGas1av MMscf/d	Gas1Cum MMsc
04/07/05																			
23:11:00	Bled down a	nnulus pre	ssure.																
23:15:00	1737.38	0.000	0.00	54.27	0.00	0.590	0.0	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000
23:16:00	Port flareboo	om flame ex	ctinguished	due to wate	er/mud to	surface.													
23:18:00	Diverted flow		_																
23:18:00	Brine at surfa	ace.	-																
23:20:00	2071.63	0.000	13.10	64.08	0.00	0.590	0.0	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000
23:25:00	Increased to	52/64" adjı	ustable cho	ke.															
23:25:00	2123.76	0.000	159.19	53.35	0.00	0.590	0.0	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000
23:29:00	Increased to	56/64" adjı	ustable cho	ke.															
23:30:00	Activated lov	v pilot upst	ream of SS	V.															
23:30:00	2170.78	0.000	328.64	59.34	0.00	0.590	0.0	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000
23:33:00	Gas to surface	ce.																	
23:33:00	Bled down a	nnulus pre	ssure.																
23:35:00	2229.86	0.000	564.82	51.86	0.00	0.590	0.0	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000
23:36:00	Gas flare lit.																		
23:39:00	Increased to	64/64" adjı	ustable cho	ke.															
23:40:00	2246.41	0.000	707.71	52.73	0.00	0.590	0.0	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000
23:45:00	2248.66	0.000	865.33	54.25	0.00	0.590	0.0	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000
23:50:00	Diverted flow	v through a	64/64" fixe	d choke.															
23:50:00	2313.88	0.000	861.59	54.25	0.00	0.590	0.0	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000
23:55:00	2297.11	0.000	801.91	54.23	0.00	0.590	0.0	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000
23:58:00	Bled down a	nnulus pre	ssure.																
05/07/05																			
00:00:00	Draeger indi	cated 0.6%	CO2, and 0	ppm H2S.															
00:00:00	2304.88	0.000	795.72	54.35	0.00	0.590	0.6	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000
00:05:00	2308.97	0.000	783.64	54.25	0.00	0.590	0.6	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000
00:10:00	Diverted flow																		
00:10:00	2311.42	0.000	767.57	54.04	0.00	0.590	0.6	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000
00:15:00	Decreased to																		
00:15:00	2295.68	0.000	830.55	53.14	0.00	0.590	0.6	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000
									Page										

Well No. Casino 5 Location Ocean Patriot

Test No. Completion **Dates From/To** 03/07/05 - 05/07/05

Time hh:mm:ss	UcP PSIG	Orif Size	GasP PSIG	GasT °F	GasD INWG	GasSG Factor	Co2 mol%	H2S ppm	GasFb Factor	GasFr Factor	GasY Factor	GasFpb Factor	GasFtb Factor	GasFtf Factor	GasFgr Factor	GasFpv Factor	GasC Factor	QGas1av MMscf/d	Gas1Cum MMsc
05/07/05																			
00:20:00	2428.77	0.000	498.70	49.56	0.00	0.590	0.6	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000
00:25:00	2428.56	0.000	529.55	51.45	0.00	0.590	0.6	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.00
00:27:00	Commenced	methanol	injection up	stream of S	urface Sat	fety Valve.													
00:30:00	Increased to	54/64" adj	ustable cho	ke.															
00:30:00	Draeger indi	cated 0.5%	CO2, and 0	ppm H2S.															
00:30:00	2428.16	0.000	543.35	51.66	0.00	0.590	0.5	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.00
00:31:00	Stopped met	thanol injec	ction upstre	am of Surfa	ce Safety	Valve.													
00:35:00	Increased to	56/64" adj	ustable cho	ke.															
00:35:00	2368.87	0.000	681.03	45.97	0.00	0.590	0.5	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.00
00:40:00	2353.54	0.000	705.50	48.76	0.00	0.590	0.5	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.00
00:44:00	Increased to	58/64" adj	ustable cho	ke.															
00:45:00	2349.45	0.000	700.29	49.95	0.00	0.590	0.5	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.00
00:47:00	Leak in ESD	line cause	d by line co	ntacting co	mpressor	exhaust.													
00:48:00	Closed chok	e manifold																	
00:50:00	2.79	0.000	377.27	45.56	0.00	0.590	0.5	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.00
00:55:00	2.99	0.000	130.18	41.78	7.30	0.590	0.5	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.00
00:58:00	FWV on flow	head open	ed.																
01:00:00	2493.98	0.000	35.67	42.78	0.00	0.590	0.5	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.00
01:05:00	2493.16	0.000	4.76	44.96	0.09	0.590	0.5	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000
01:10:00	2492.96	0.000	0.00	47.27	0.08	0.590	0.5	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000
01:15:00	2478.45	0.000	0.00	48.85	0.22	0.590	0.5	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.00
01:20:00	2492.55	0.000	0.00	49.76	0.19	0.590	0.5	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000
01:25:00	2492.14	0.000	0.00	50.47	0.26	0.590	0.5	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.00
01:30:00	2492.35	0.000	0.00	50.96	0.35	0.590	0.5	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.00
01:33:00	Opened well	on 16/64"	adjustable o	hoke to po	rt flareboo	m.													
01:34:00	Gradually in	creased to	60/64" adjus	stable.															
01:35:00	2388.09	0.000	77.93	34.82	0.00	0.590	0.5	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.00
01:37:00	Diverted thro	ough a 60/6	4" fixed cho	oke.															
01:38:00	Diverted flow	v through t	est separato	or.															
1:39:00	Commenced	methanol	injection up	stream of S	Surface Sat	fety Valve.													
01:40:00	2348.02	0.000	622.89	20.04	0.01	0.590	0.5	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.00
									Page 4	1									

Well No. Casino 5 Location Ocean Patriot

Test No. Completion **Dates From/To** 03/07/05 - 05/07/05

Time hh:mm:ss	UcP PSIG	Orif Size ins	GasP PSIG	GasT °F	GasD INWG	GasSG Factor	Co2 mol%	H2S ppm	GasFb Factor	GasFr Factor	GasY Factor	GasFpb Factor	GasFtb Factor	GasFtf Factor	GasFgr Factor	GasFpv Factor	GasC Factor	QGas1av MMscf/d	Gas1Cum MMscf
05/07/05																			
01:45:00	Gas SG - 0.7	08.																	
01:45:00	Draeger indi	cated 0.5%	CO2, and 0	ppm H2S.															
01:45:00	2346.99	0.000	725.07	34.13	0.00	0.590	0.5	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000
01:50:00	2347.40	0.000	714.40	41.99	2.22	0.590	0.5	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000
01:51:00	Installed 4.75	" orifice p	late in test s	separator g	as meter ru	ın.													
01:55:00	2350.47	4.750	738.56	43.17	60.29	0.590	0.5	0.00	6120.62	1.000	0.999	1.000	1.000	1.017	1.302	1.073	8687.4	44.806	0.156
02:00:00	Draeger indi	cated 0.8%	CO2, and 0	ppm H2S.															
02:00:00	2351.90	4.750	758.98	44.78	59.43	0.590	0.5	0.00	6120.62	1.000	0.999	1.000	1.000	1.015	1.302	1.075	8683.4	44.920	0.312
02:05:00	2353.74	4.750	763.71	46.47	59.57	0.590	0.5	0.00	6120.62	1.000	0.999	1.000	1.000	1.013	1.302	1.074	8664.5	44.841	0.467
02:10:00	2355.17	4.750	777.26	48.57	57.84	0.590	0.5	0.00	6120.62	1.000	0.999	1.000	1.000	1.011	1.302	1.074	8648.0	44.596	0.622
02:15:00	Gas SG - 0.6	92.																	
02:15:00	Radon - 116	Bq/m3.																	
02:15:00	2356.60	4.750	769.78	49.56	66.67	0.590	0.5	0.00	6120.62	1.000	0.999	1.000	1.000	1.010	1.302	1.073	8627.0	46.370	0.783
02:20:00	2358.24	4.750	768.12	50.36	64.56	0.590	0.5	0.00	6120.62	1.000	0.999	1.000	1.000	1.009	1.302	1.072	8615.6	47.347	0.948
02:24:00	Bled down a	nnulus pre	ssure.																
02:25:00	2359.47	4.750	764.01	50.96	60.33	0.590	0.5	0.00	6120.62	1.000	0.999	1.000	1.000	1.009	1.302	1.071	8605.3	46.450	1.109
02:30:00	Draeger indi	cated 0.7%	CO2, and 0	ppm H2S.															
02:30:00	2360.89	4.750	753.40	51.06	62.63	0.590	0.8	0.00	6120.62	1.000	0.999	1.000	1.000	1.009	1.302	1.070	8590.6	45.643	1.267
02:35:00	2362.53	4.750	757.82	52.05	62.26	0.590	0.8	0.00	6120.62	1.000	0.999	1.000	1.000	1.008	1.302	1.070	8581.4	45.554	1.425
02:40:00	2363.76	4.750	752.79	52.65	64.76	0.590	0.8	0.00	6120.62	1.000	0.999	1.000	1.000	1.007	1.302	1.069	8569.3	45.489	1.583
02:45:00	2364.78	4.750	762.54	53.84	62.84	0.590	0.8	0.00	6120.62	1.000	0.999	1.000	1.000	1.006	1.302	1.069	8562.0	45.301	1.741
02:50:00	2365.60	4.750	768.61	54.48	61.96	0.590	0.8	0.00	6120.62	1.000	0.999	1.000	1.000	1.005	1.302	1.069	8558.7	45.200	1.898
02:55:00	2366.21	4.750	763.71	55.06	63.79	0.590	0.8	0.00	6120.62	1.000	0.999	1.000	1.000	1.005	1.302	1.069	8547.3	45.537	2.056
03:00:00	Gas SG - 0.6	78.																	
03:00:00	Draeger indi	cated 0.7%	CO2, and 0	ppm H2S.															
03:00:00	2367.23	4.750	773.83	55.95	61.45	0.590	0.8	0.00	6120.62	1.000	0.999	1.000	1.000	1.004	1.302	1.069	8544.0	45.410	2.213
03:05:00	2367.44	4.750	780.82	56.74	61.68	0.590	0.7	0.00	6120.62	1.000	0.999	1.000	1.000	1.003	1.302	1.069	8540.1	45.254	2.371
03:10:00	2367.85	4.750	782.10	57.63	60.93	0.590	0.7	0.00	6120.62	1.000	0.999	1.000	1.000	1.002	1.302	1.069	8529.9	45.146	2.527
03:15:00	Water SG - 1	.116, water	PH 7.																
03:15:00	Radon - 82 B	q/m3.																	
03:15:00	2369.28	4.750	773.21	57.35	62.58	0.590	0.7	0.00	6120.62	1.000	0.999	1.000	1.000	1.003	1.302	1.068	8526.6	45.517	2.685
									Page	5									

Client	Santos Ltd	Exal Engineer	J. Morrison / B. Tupman

Well No. Casino 5 Location Ocean Patriot

MMscf/d 4: WGR <0.5 bbl/MMscf - estimated LGR <0.5 bbl/MMscf.

04:15:00 Obtained gas sample No: 1.03 (150cc bottle no: W-015).

Test No. Completion **Dates From/To** 03/07/05 - 05/07/05

Time hh:mm:ss	UcP PSIG	Orif Size	GasP PSIG	GasT °F	GasD INWG	GasSG Factor	Co2 mol%	H2S ppm	GasFb Factor	GasFr Factor	GasY Factor	GasFpb Factor	GasFtb Factor	GasFtf Factor	GasFgr Factor	GasFpv Factor	GasC Factor	QGas1av MMscf/d	Gas1Cum MMscf
				-				-											
<u>05/07/05</u>																			
03:20:00	2368.87	4.750	776.09	58.04	62.03	0.590	0.7	0.00	6120.62	1.000	0.999	1.000	1.000	1.002	1.302	1.068	8520.2	45.213	2.842
03:24:00	Obtained PV	T gas samp	ole No: 1.01	(20L bottle	no: A-197	I).													
03:25:00	2369.48	4.750	771.56	58.15	62.29	0.590	0.7	0.00	6120.62	1.000	0.999	1.000	1.000	1.002	1.302	1.068	8515.5	45.372	3.000
03:30:00	2369.69	4.750	776.71	58.23	61.57	0.590	0.7	0.00	6120.62	1.000	0.999	1.000	1.000	1.002	1.302	1.068	8518.3	45.120	3.157
03:35:00	Chlorides - 70	0000 mg/L.																	
03:35:00	Alkalinity - 89	92 mg/L Ca	Co3eqv.																
03:35:00	pH - 6.14 @ 1	1.3 °C.																	
03:35:00	Conductivity	- 44.6 mS/d	cm @ 11.3°	C.															
03:35:00	Resistivity - 0	0.022 Ohm-	m @ 11.3 °C	С.															
03:35:00	Resistivity - 0.022 Ohm-m @ 11.3 °C. Water SG - 1.088 @ 12.5 °C.																		
03:35:00	2370.10	4.750	771.56	58.64	63.33	0.590	0.7	0.00	6120.62	1.000	0.999	1.000	1.000	1.001	1.302	1.068	8509.2	45.419	3.314
03:40:00	2370.91	4.750	759.54	59.24	63.51	0.590	0.7	0.00	6120.62	1.000	0.999	1.000	1.000	1.001	1.302	1.066	8493.0	45.173	3.471
03:44:00	Radon - 112 E	Bq/m3.																	
03:45:00	2370.71	4.750	766.34	59.34	62.35	0.590	0.7	0.00	6120.62	1.000	0.999	1.000	1.000	1.001	1.302	1.067	8497.0	45.003	3.627
03:50:00	2370.91	4.750	765.30	59.35	64.36	0.590	0.7	0.00	6120.62	1.000	0.999	1.000	1.000	1.001	1.302	1.067	8495.7	45.221	3.784
03:54:00	Obtained PV	T gas samp	ole No: 1.02	(20L bottle	no: A-0168	3).													
03:55:00	2371.32	4.750	761.31	59.44	63.56	0.590	0.7	0.00	6120.62	1.000	0.999	1.000	1.000	1.001	1.302	1.066	8491.9	45.192	3.941
04:00:00	2372.14	4.750	768.12	59.84	62.40	0.590	0.7	0.00	6120.62	1.000	0.999	1.000	1.000	1.000	1.302	1.067	8492.0	45.024	4.098
04:05:00	2371.94	4.750	769.17	59.95	62.30	0.590	0.7	0.00	6120.62	1.000	0.999	1.000	1.000	1.000	1.302	1.067	8491.4	45.090	4.254
04:10:00	2372.34	4.750	773.76	60.33	61.60	0.590	0.7	0.00	6120.62	1.000	0.999	1.000	1.000	1.000	1.302	1.067	8490.2	45.055	4.411
04:14:00	Lifted 4.75" o	rifice plate	from test s	eparator g	as meter ru	n.													
04:15:00	Closed in we	II at choke	manifold. S	topped me	thanol inje	ction upstre	eam of Surf	ace Safet	y Valve.										
04:15:00	Average water				-	•			-										

04:15:00 Clean-up criteria established: 1: BS&W <3% - not measurable, 2: Stable THP - <10 psi/5 min change over 2 hours, 3: Stable gas rate - 45

$$Qg = C' \sqrt{hw \times Pf}$$

(Equation 3-D-1 AGA 3)

Where,

Qg = Gas Rate (scf/hr)

C' = Orifice Flow Constant hw = Differential flow in inches of water

Pf = Flowing pressure in psia.

C' (Orifice Flow Constant) is further broken down to: -

$$C' = F_b * F_r * Y * F_{pb} * F_{tb} * F_{tf} * F_{gr} * F_{pv}$$
(3-D-2)

Where,

F_b = Basic Orifice Factor

= Reynolds Number Factor

= Expansion Factor

Y = Expansion Factor

F_{pb} = Pressure Base Factor

F_{tb} = Temperature Base Factor

F_{tf} = Flowing Temperature Factor

F_{gr} = Specific Gravity Factor

F_{pv} = Supercompressibility Factor

Comments_References

The gas calculations quoted within this standard have been taken from the AGA report No3, which is the accepted standard for natural gas fluid measurement through an orifice meter. The compressibility factor used is based upon the Dranchuk et al calculation.

SECTION 5: DAILY GEOLOGICAL REPORTS

Santos

A.C.N. 007 550 923

WELL PROGRESS REPORT CASINO 5

DATE: 16/06/05

REPORT NO: 1

(As at 2400 hours 15/06/05) DEPTH: 0 mMD PROGRESS: 0 mMD DAYS FROM SPUD: 0

0 mTVD DAYS ON WELL: 0

OPERATION: SETTING ANCHORS AT NEW LOCATION.

(As at 0600 hours 16/06/05) **DEPTH:** 0 mMD **PROGRESS** (0600-0600 hrs): 0m

0 mTVD

OPERATION: SETTING ANCHORS AT NEW LOCATION.

AFE COST CUMULATIVE COST

340mm (13.375") CASING DEPTH: RIG: OCEAN PATRIOT

244mm (9.625") CASING DEPTH:

PROGRAMMED TD: 1788m ROTARY TABLE: 22m LAT WATER DEPTH: 70.8 m

MUD DATA Mud Type: Wt: (SG/PPG) Vis: FL: Ph: KCl% Cl: PV/YP: Rmf:

BIT DATA No. Make Type Size (mm) Hours Drilled Condition

SURVEYS: MD (m) INC (°) AZIM (°T) CLOSURE (m) DIRECTION (°)

PREVIOUS 24 HOURS OPERATIONS SUMMARY:

CONTINUED SETTING ANCHORS AT NEW LOCATION / MADE UP 36"BHA / MAKING UP DP

00:00 - 06:00 HOURS 14/06/05:

CONTINUED SETTING ANCHOR / MADE UP DP / RAN 36"BHA TO SEAFLOOR

ANTICIPATED OPERATIONS:

FINISH SETTING AND TENSIONING ANCHORS / SPUD CASINO 5

Santos

A.C.N. 007 550 923

WELL PROGRESS REPORT CASINO 5

DATE: 17/06/05

REPORT NO: 2

(As at 2400 hours 16/06/05) DEPTH: 133mMD PROGRESS: 43mMD DAYS FROM SPUD: 1

133mTVD DAYS ON WELL: 2

OPERATION: CIRCULATING AT 36" SECTION TD.

(As at 0600 hours 17/06/05) DEPTH: 133mMD PROGRESS: (0600-0600 hrs): 43m

133mTVD

OPERATION: RUNNING 30" / 20" CONDUCTOR.

NOPE COST (P&A)\$ FINAL FORECAST COST (P&A)\$ COST TO DATE: \$

(C&S)\$ (C&S)\$

CASING DEPTH: 340mm (13.375") RIG: OCEAN PATRIOT

244mm (9.625")

PROGRAMMED TD: 1788m **ROTARY TABLE:** 22m LAT **RT – MUDLINE:** 21.5m

WATER DEPTH: 68.2m

MUD DATA Mud Type: Wt: (SG/PPG) Vis: FL: Ph: KCl Cl: PV/YP: Rmf:

%

seawater 1.04 200 13 9.5 1050 11/50

BIT DATA No. Make Type Size (mm) Hours Drilled Condition

SMITH HOLE 914 3.1 43

OPENER

SURVEYS: \underline{MD} (m) \underline{INC} (°) \underline{AZIM} (°T) $\underline{CLOSURE}$ (m) $\underline{DIRECTION}$ (°)

PREVIOUS 24 HOURS OPERATIONS SUMMARY:

SET AND TENSIONED ANCHORS. DRILLED 36" HOLE TO 133M. CASINO 5 SPUDDED AT 1900HRS ON 16/6/05.

00:00 - 06:00 HOURS 14/06/05:

1

PUMPED HOLE CLEAN. DISPLACED WELL TO GEL. PULL OUT OF HOLE. START RUN IN HOLE WITH 30" CONDUCTOR.

ANTICIPATED OPERATIONS:

RUN AND CEMENT 30" CONDUCTOR. MAKE UP 17½" BOTTOM HOLE ASSEMBLEY. RUN IN HOLE AND DRILL 17½" HOLE TO APPROX 660 M.

A.C.N. 007 550 923

WELL PROGRESS REPORT CASINO 5

DATE: 18/06/05

REPORT NO: 3

(As at 2400 hours 17/06/05) **DEPTH:** 133 mMD PROGRESS: 0 mMD **DAYS FROM SPUD: 2**

> DAYS ON WELL: 3 133 mTVD

OPERATION: MAKING UP 17.5" BIT & BHA

(As at 0600 hours 18/06/05) **DEPTH:** 137 mMD PROGRESS (0600-0600 hrs): 4m

137 mTVD

OPERATION: DRILLING AHEAD 17.5" HOLE AT 137m.

AFE COST **CUMULATIVE COST**

762mm (30") CASING DEPTH: 133m **RIG: OCEAN PATRIOT**

244mm (9.625") CASING DEPTH:

RT – MUDLINE: 89.7 m WATER DEPTH: 68.2 m PROGRAMMED TD: 1788m **ROTARY TABLE: 21.5 m LAT**

Mud Type: Wt: (SG/PPG) FL: Ph: KCl% PV/YP: MUD DATA Vis: C1: Rmf:

1.04 seawater 200 13 9.5 1050 11/50

Size (mm) Drilled Condition **BIT DATA** No. Make Type Hours 2

HUGHES MX-1 444 0.3 4

SURVEYS: INC (°) AZIM (°T) CLOSURE (m) DIRECTION (°) <u>MD</u> (m)

PREVIOUS 24 HOURS OPERATIONS SUMMARY:

PUMPED HOLE CLEAN, DISPLACED WELL TO GEL, PULL OUT OF HOLE. RUN IN HOLE WITH 30" CONDUCTOR & 20" SHOE. DISCOVERED LEAK AT THE CAMERON RUNNING TOOL. PULL OUT WITH THE RUNNING TOOL TO THE MOON POOL & REPAIR LEAK. RE-RUN 30" CONDUCTOR AND LAND OUT. SET 20" CONDUCTOR SHOE ON BOTTOM AT 133m. CEMENT CONDUCTOR AS PER PROGRAM. WAIT ON CEMENT. PERFORM CEMENT TOP-UP JOB. MAKE UP 17.5" BIT & BHA.

00:00 - 06:00 HOURS 18/06/05:

CONTINUE MAKING UP 17.5" BIT & BHA. RUN IN HOLE TAG FLOAT AT 128m. DRILL OUT CASING FLOAT AND SHOE. DRILL AHEAD FROM 133m TO 137m.

ANTICIPATED OPERATIONS:

DRILL 171/2" HOLE TO APPROX 660m.

Santos

A.C.N. 007 550 923

WELL PROGRESS REPORT CASINO 5

DATE: 19/06/05

REPORT NO: 4

(As at 2400 hours 18/06/05) DEPTH: 665 mMD PROGRESS: 532 mMD DAYS FROM SPUD: 3

665 mTVD DAYS ON WELL: 4

OPERATION: PULLING OUT OF HOLE AT 430m.

(As at 0600 hours 19/06/05) DEPTH: 665 mMD PROGRESS (0600-0600 hrs): 0m

665 mTVD

OPERATION: PULLING OUT OF HOLE AT 132m.

AFE COST CUMULATIVE COST

762mm (30") CASING DEPTH: 132m RIG: OCEAN PATRIOT

244mm (9.625") CASING DEPTH:

PROGRAMMED TD: 1788m ROTARY TABLE: 21.5 m LAT WATER DEPTH: 68.2 m

MUD DATA Mud Type: Wt: (SG/PPG) Vis: FL: Ph: KCl% Cl: PV/YP: Rmf:

Seawater 1.04 200 14 9.5 1000 10/50

BIT DATA No. Make Type Size (mm) Hours Drilled Condition 2 HUGHES MX-1 444 11.4 532

SURVEYS: MD (m) INC (°) AZIM (°T) CLOSURE (m) DIRECTION (°)

PREVIOUS 24 HOURS OPERATIONS SUMMARY:

CONTINUE MAKING UP 17.5" BIT & BHA. RUN IN HOLE TAG FLOAT AT 128m. DRILL OUT CASING FLOAT AND SHOE. DRILL AHEAD FROM 133m TO 665m. CIRCULATE HOLE CLEAN AND DISPLACE TO PHG MUD. DROP EMS SURVEY TOOL. PULL OUT OF HOLE WORKING TIGHT HOLE AS REQUIRED.

00:00 - 06:00 HOURS 19/06/05:

CONTINUE PULLING OUT OF HOLE WORKING TIGHT HOLE AS REQUIRED. PULL BACK TO 132m RUN BACK IN HOLE FOR WIPER TRIP. CIRCULATE AND DISPLACE TO PHG MUD. PULL OUT OF HOLE.

ANTICIPATED OPERATIONS:

RUN 13.375" CASING AND PERFORM CEMENT JOB. RUN BOP STACK AND PRESSURE TEST.

Santos

A.C.N. 007 550 923

WELL PROGRESS REPORT CASINO 5

DATE: 20/06/05

REPORT NO: 5

(As at 2400 hours 19/06/05) **DEPTH:** 665 mMD

PROGRESS: 0 mMD

DAYS FROM SPUD: 4

DAYS ON WELL: 5

665 mTVD

RIGGING UP TO RUN SUB-SEA XMAS TREE.

(As at 0600 hours 20/06/05)

OPERATION:

DEPTH: 665 mMD

PROGRESS (0600-0600 hrs): 0m

665 mTVD

OPERATION: RECOVERING XMAS TREE RUNNING TOOL.

AFE COST CUMULATIVE COST

762mm (30") CASING DEPTH: 132m **340mm (13.375") CASING DEPTH:** 654.8m

PROGRAMMED TD: 1788m

7.0111

ROTARY TABLE: 21.5 m LAT

RIG: OCEAN PATRIOT

RT – MUDLINE: 89.7 m WATER DEPTH: 68.2 m

PV/YP: **MUD DATA** Mud Type: Wt: (SG/PPG) FL: Ph· KCl% C1Vis: Rmf: Seawater 1.04 100 13 10.0 850 12/48

BIT DATA No. Make Type Size (mm) Hours Drilled Condition 2 HUGHES MX-1 444 11.4 532 -

SURVEYS: MD (m) INC (°) AZIM (°T) CLOSURE (m) DIRECTION (°) 636.96 0.54 120.09

652.27 0.52 118.09 8.4 155.24

PREVIOUS 24 HOURS OPERATIONS SUMMARY:

CONTINUE PULLING OUT OF HOLE WORKING TIGHT HOLE AS REQUIRED. PULL BACK TO 132m. RUN BACK IN HOLE FOR WIPER TRIP. CIRCULATE AND DISPLACE TO PHG MUD. PULL OUT OF HOLE. RIG UP AND RUN 49 JOINTS OF 13.375" CASING. LAND OUT CASING WITH SHOE SET AT 654.8m. PERFORM CEMENT JOB AS PER PROGRAME. RELEASE AND RECOVER CASING RUNNING TOOL. RIG UP TO RUN SUB SEA XMAS TREE.

00:00 - 06:00 HOURS 20/06/05:

RUN SUB SEA XMAS TREE AND SET ON GUIDE BASE. LATCH TREE AND RELEASE RUNNING TOOL. RECOVER XMAS TREE RUNNING TOOL.

ANTICIPATED OPERATIONS:

RUN BOP STACK AND PRESSURE TEST. DRILL AHEAD 12.25" HOLE.

A.C.N. 007 550 923

WELL PROGRESS REPORT CASINO 5

DATE: 21/06/05

REPORT NO: 6

(As at 2400 hours 20/06/05) **DEPTH:** 665 mMD PROGRESS: 0 mMD DAYS FROM SPUD: 5

DAYS ON WELL: 6 665 mTVD

OPERATION: PREPARING TO LAND OUT BOP STACK.

(As at 0600 hours 21/06/05) **DEPTH:** 665 mMD PROGRESS (0600-0600 hrs): 0m

665 mTVD

OPERATION: RELEASING SLIP JOINT ON RISER.

AFE COST **CUMULATIVE COST**

762mm (30") CASING DEPTH: 132m **RIG: OCEAN PATRIOT**

340mm (13.375") CASING DEPTH: 655m

RT – MUDLINE: 89.7 m **ROTARY TABLE: 21.5 m LAT** WATER DEPTH: 68.2 m

PROGRAMMED TD: 1788m

Ph: KCl% PV/YP: **MUD DATA** Mud Type: Wt: (SG/PPG) FL: C1Rmf: Vis: 1.04 13 10.0 Seawater 100 850 12/48

Drilled **BIT DATA** No. Make Type Size (mm) Hours Condition

2 **HUGHES** MX-1 444 11.4 532 1-1-NO-A-E-I-NO-TD

SURVEYS: INC (°) AZIM (°T) CLOSURE (m) DIRECTION (°) <u>MD</u> (m)

636.96 0.54 120.09 652.27 0.52 118.09 8.4 155.24

PREVIOUS 24 HOURS OPERATIONS SUMMARY:

RUN SUB SEA XMAS TREE AND SET ON GUIDE BASE. LATCH TREE AND RELEASE RUNNING TOOL. RECOVER XMAS TREE RUNNING TOOL. RIG UP AND RUN BOP STACK ON MARINE RISER.

00:00 - 06:00 HOURS 21/06/05:

LAND OUT AND LATCH BOP STACK. RELEASE SLIP JOINT.

ANTICIPATED OPERATIONS:

PRESSURE TEST BOP STACK. DRILL AHEAD 12.25" HOLE.

A.B.N. 80 007 550 923

WELL PROGRESS REPORT

DATE: 22/06/05 - 06:00 HRS EST | CASINO 5 | REPORT NO: 1

(As at 2400 hours EST, 21/06/05) **DEPTH:** 665 mMD

PROG: 0m

DAYS FROM SPUD: 6

(00:00-24:00)

OPERATION: RUN AND LAND WEAR BUSHING.

(As at 06:00 hours EST, 22/06/05) **DEPTH:** 665 mMD **PROGRESS:** 0m

(06:00-06:00 EST)

OPERATION: RUNNING IN HOLE WITH THE 311mm (12¹/₄") BOTTOM HOLE ASSEMBLY.

AFE COST \$ CUMULATIVE COST \$

CASING SHOE: 340mm (13 3/8") SET AT 655m RIG: OCEAN PATRIOT

RT – SEAFLOOR: 89.7 LAT

PROGRAMMED TD: 1788 mMD **ROTARY TABLE:** 21.5 m LAT **WATER DEPTH:** 68.2m LAT

MUD DATA Wt: FL: PH: **KC1** Cl: PV / YP: Type: Vis: Rmf: PHG (2400 Hours) 1.04 100 14 10 47k 10/55

No. Make Type Size (mm/in.) Hours Drilled Condition (m)

BIT DATA PRESENT 3 STC GS04BDV 311mm (121/4") - IN HOLE

(2400 Hours) LAST

SURVEYS: MD (m) INCLINATION AZIMUTH (T) CLOSURE (m) DIRECTION (T)

PREVIOUS 24 HOURS OPERATIONS SUMMARY: (21/06/05)

LAND AND LATCH BLOW OUT PREVENTER, FUNCTION AND PRESSURE TEST BLOW OUT PREVENTER AND SURFACE EQUIPMENT. RUN AND LAND WEAR BUSHING.

00:00 - 06:00 HOURS WST (22/06/05):

MAKE UP AND RACK BACK CASING HANGER ASSEMBLY. MAKE UP CEMENTING HEAD. MAKE UP 311mm (121/4") BOTTOM HOLE ASSEMBLY AND LWD TOOLS AND RUN IN HOLE.

ANTICIPATED OPERATIONS:

RUN IN HOLE WITH THE 311mm ($12\frac{1}{4}$ ") BOTTOM HOLE ASSEMBLY. DRILL CEMENT AND SHOE TRACK. CONDUCT LEAK-OFF TEST. DRILL AHEAD WITH 311mm ($12\frac{1}{4}$ ") HOLE.

REPORT NO: 1

Santos

A.B.N. 80 007 550 923

WELL PROGRESS REPORT

CASINO 5

DATE: 22/06/05 - 06:00 HRS EST

FORMATION	TOPS:	MDRT (m)	Subsea (m)	High/Low to Prognosis (m)	High /Low to Casino 2 (m)
	HVDROCARRO	ON SHOW SUMMAR	PV		
		on one of solution	X I		
INTERVAL	LITHOLOGY				GAS

	GEOLOGICAL SUMMARY	
INTERVAL	LITHOLOGY	GAS
(m/hr)		

A.B.N. 80 007 550 923

WELL PROGRESS REPORT

DATE: 23/06/05 - 06:00 HRS EST **REPORT NO: 2 CASINO 5**

(As at 2400 hours EST, 22/06/05) **DEPTH:** 951 mMD

PROG: 286m

DAYS FROM SPUD: 7

(00:00-24:00)

OPERATION: DRILLING 311mm (12 ¹/₄") HOLE.

(As at 06:00 hours EST, 23/06/05) PROGRESS: 352m **DEPTH:** 1017 mMD

(06:00-06:00 EST)

\$

OPERATION: DRILLING 311mm (12 1/4") HOLE.

AFE COST **CUMULATIVE COST**

CASING SHOE: 340mm (13 3/8") SET AT 655m **RIG:** OCEAN PATRIOT

RT - SEAFLOOR: 89.7 LAT

PROGRAMMED TD: 1788 mMD **ROTARY TABLE:** 21.5 m LAT WATER DEPTH: 68.2m LAT

MUD DATA Wt: PH: KCl Cl: PV / YP: Type: Vis: FL: Rmf: (2400 Hours) KCL-IDCAP 1.22 7 54 7.0 9.0% 47k 11/14

		No.	Make	Type	Size (mm/in.)	Hours	Drilled (m)	Condition
BIT DATA (2400 Hours)	PRESENT	3	STC	GS04BDV	311mm (12¼")	7.6	286	DRILLING

SURVEYS:	<u>MD</u> (m)	INCLINATION	AZIMUTH (T)	CLOSURE (m)	DIRECTION (T)
	800.8	1.6	179.3	10.7	157.5
	858.1	1.6	236.4	11.7	162.8
	915.5	4.8	243.6	12.7	177.1

PREVIOUS 24 HOURS OPERATIONS SUMMARY: (22/06/05)

MAKE UP AND RACK BACK CASING HANGER ASSEMBLY. MAKE UP CEMENTING HEAD. MAKE UP 311mm (121/4") BOTTOM HOLE ASSEMBLY AND LWD TOOLS, RUN IN HOLE. TAG CEMENT AT 633m. DRILL CEMENT, SHOE TRACK AND 3m OF NEW HOLE TO 668m. CONDUCT LEAK-OFF TEST. EQUIVALENT MUD WEIGHT = 2.08 SG (17.4PPG). DRILL 311mm (12 1/4") HOLE FROM 668m TO 951m. LWD TOOL FAILURE AT 940m.

00:00 - 06:00 HOURS EST (23/06/05):

CONTINUE TO DRILL 311mm (12 1/4") HOLE FROM 951m TO 1017m.

ANTICIPATED OPERATIONS:

DRILL AHEAD WITH 311mm (121/4") HOLE TO APPROXIMATELY 1160m. PULL OUT OH HOLE AND CHANGE BIT FOR A PDC.

LWD SENSOR OFFSETS

GR: 12.75m, RES: 9.72m, DIR: 16.13.

A.B.N. 80 007 550 923

WELL PROGRESS REPORT

DATE: 23/06/05 - 06:00 HRS EST	CASINO 5	REPORT NO: 2

FORMATION TOPS:	MDRT (m)	Subsea (m)	High/Low to Prognosis (m)	High /Low to Casino 2 (m)

HYDROCARBON SHOW SUMMARY				
INTERVAL	LITHOLOGY	GAS		

	GEOLOGICAL SUMMARY	
INTERVAL	LITHOLOGY	GAS
(m/hr) 665 – 681 m 9 – 38 m/hr Av: 20 m/hr	CALCAREOUS SILTSTONE: medium brownish grey, medium brown, argillaceous grading to CALCAREOUS CLAYSTONE, common forams, trace nodular pyrite, firm, sub blocky.	0.5 U 100/-
681 – 775.5m 9 – 150 m/hr Av: 52 m/hr	<u>SANDSTONE</u> : yellow orange brown Fe stain, translucent, clear in part, fine to coarse predominantly medium grained, sub angular to predominantly sub round, trace very coarse fracture quartz grains, poor to fair sorting, trace forams, predominantly loose quartz grains, good inferred porosity, no fluorescence.	trace 100/-
775.5 –1008m 3 – 166 m/hr Av: 31 m/hr	<u>SANDSTONE</u> : clear, translucent, white in part, locally slight yellow brown FE stain in part, fine to medium grained, occasionally coarse, moderately sorted, sub round to occasionally sub angular, trace weak siliceous cement, trace to minor nodular pyrite, predominantly loose clean quartz grains, good inferred porosity, no fluorescence.	1 U 100/-
1008 – 1014m 5 – 9 m/hr Av: 7 m/hr	CLAYSTONE with interbedded SANDSTONE. SANDSTONE: translucent, clear, white in part, light grey, medium to very coarse predominantly medium to coarse, sub angular to sub round, poor sorting, trace weak siliceous cement, predominantly loose, trace nodular pyrite, fair inferred porosity, no show. CLAYSTONE: medium to dark brown, silty in part, minor carbonaceous specks and thin laminae, trace nodular pyrite, soft to firm, sub blocky.	0.2 U 100/-

A.B.N. 80 007 550 923

WELL PROGRESS REPORT

DATE: 24/06/05 - 06:00 HRS EST | CASINO 5 | REPORT NO: 3

(As at 2400 hours EST, 23/06/05) **DEPTH**: 1160 mMD

PROG: 209m

DAYS FROM SPUD: 8

(00:00-24:00)

OPERATION: CHANGING OUT SPERRY LWD TOOLS.

(As at 06:00 hours EST, 24/06/05) **DEPTH:** 1160 mMD **PROGRESS:** 143m

(06:00-06:00 EST)

OPERATION: RUNNING IN HOLE WITH THE 311mm (12¹/₄") BOTTOM HOLE ASSEMBLY.

AFE COST \$ CUMULATIVE COST \$

CASING SHOE: 340mm (13 3/8") SET AT 655m RIG: OCEAN PATRIOT

RT – SEAFLOOR: 89.7 LAT

PROGRAMMED TD: 1788 mMD **ROTARY TABLE:** 21.5 m LAT **WATER DEPTH:** 68.2m LAT

Wt: **MUD DATA** Vis: FL: PH: KCl Cl: PV / YP: Rmf: Type: KCL-IDCAP (2400 Hours) 1.21 50 5.6 7.2 8.0% 44k 12/19

		No.	Make	Type	Size (mm/in.)	Hours	Drilled (m)	Condition
BIT DATA	PRESENT	4	STC	MA89PX	311mm (121/4")	-	-	-
(2400 Hours)	LAST	3	STC	GS04BDV	311mm (12 ¹ / ₄ ")	18.9	495	4-5-WT-A-E-I-NO- PR

SURVEYS: MD (m) INCLINATION AZIMUTH (T) CLOSURE (m) DIRECTION (T)

PREVIOUS 24 HOURS OPERATIONS SUMMARY: (23/06/05)

DRILL 311mm ($12\frac{1}{4}$ ") HOLE FROM 951m TO 1160m. CIRCULATE BOTTOMS UP. PULL OUT OF HOLE. WORK THROUGH TIGHT SPOT 1080m-1050m. MAKE UP CASING HANGER, SEAL ASSEMBLY AND CEMENT PLUG LAUNCHER.

00:00 - 06:00 HOURS EST (24/06/05):

LAY OUT SPERRY LWD TOOLS. PICK UP NEW TOOLS AND SURFACE TEST. REPAIR DAMAGED ADAPTOR PIN, SURFACE TEST TOOLS. RUN IN HOLE WITH THE 311mm (12½") DRILLING ASSEMBLY.

ANTICIPATED OPERATIONS:

RUN IN HOLE. DRILL AHEAD WITH 311mm (121/4") HOLE TO 1730m.

A.B.N. 80 007 550 923

WELL PROGRESS REPORT

DATE: 24/06/05 - 06:00 HRS EST	CASINO 5	REPORT NO: 3

FORMATION TOPS:	MDRT (m)	Subsea (m)	High/Low to Prognosis (m)	High /Low to Casino 2 (m)

HYDROCARBON SHOW SUMMARY				
INTERVAL	LITHOLOGY	GAS		

	GEOLOGICAL SUMMARY	
INTERVAL	LITHOLOGY	GAS
(m/hr)		
1014 – 1083m	CLAYSTONE with interbedded SANDSTONE.	trace 100/-
5 – 31 m/hr Av: 12 m/hr	SANDSTONE: translucent, clear, white in part, light grey, fine to medium, sub angular to sub round, fair sorting, trace weak siliceous cement, predominantly loose, trace nodular pyrite, fair inferred porosity, no show. CLAYSTONE: medium to dark brown, yellowish brown, silty in part, rag argillaceous SILTSTONE, minor carbonaceous specks, trace fine grained glauconite, trace nodular pyrite, soft to firm, dispersive in part, sub blocky.	
1083 – 1104m 16 – 112 m/hr Av: 44 m/hr	CLAYSTONE with interbedded SANDSTONE. CLAYSTONE: brownish black, medium to dark brownish grey, silty in part grading to argillaceous siltstone, trace carbonaceous specks, minor nodular pyrite, rare fine grained glauconite, soft to dispersive, firm in part, sub blocky. SANDSTONE: translucent, clear, white, very light grey, fine to coarse predominantly medium grained, poor to fair sorting, sub round, trace weak siliceous cement, trace silty matrix, rare nodular pyrite, predominantly loose, fair inferred porosity, no fluorescence.	2 U 100/-
1104 – 1151m 6 – 100 m/hr Av: 30 m/hr	SANDSTONE with minor interbedded SILTSTONE. SANDSTONE: translucent, clear, white, fine to very coarse predominantly medium to coarse grained, poor to fair sorting, sub round, trace weak siliceous cement, rare nodular pyrite, trace lithics, predominantly loose, fair to good inferred porosity, no fluorescence. SILTSTONE: medium to dark grey, olive grey, argillaceous grading to silty CLAYSTONE, trace nodular pyrite, trace very fine lithics, trace very fine glauconite grains, soft to dispersive, sub blocky.	1 – 2 U 100/-

GEOLOGICAL SUMMARY	
LITHOLOGY	GAS
Interbedded SILTSTONE and SANDSTONE.	1 – 2.5 U 100/-
SILTSTONE: medium to dark greenish grey, olive brown, argillaceous grading to	
silty CLAYSTONE, trace fine grained glauconite, trace nodular pyrite, soft to firm,	
dispersive, sub blocky.	
SANDSTONE: clear, translucent, white, occasionally yellow brown, very fine to	
fluorescence.	
	Interbedded SILTSTONE and SANDSTONE. SILTSTONE: medium to dark greenish grey, olive brown, argillaceous grading to silty CLAYSTONE, trace fine grained glauconite, trace nodular pyrite, soft to firm, dispersive, sub blocky. SANDSTONE: clear, translucent, white, occasionally yellow brown, very fine to predominantly medium – coarse, poor to fair sorting, sub angular to sub round, weak siliceous cement, trace light grey silty matrix, trace pyrite, trace fine grained glauconite, predominantly clean quartz grains, fair to good inferred porosity, no

A.B.N. 80 007 550 923

WELL PROGRESS REPORT

DATE: 25/06/05 - 06:00 HRS EST | CASINO 5 | REPORT NO: 4

(As at 2400 hours EST, 24/06/05) **DEPTH**: 1343 mMD

PROG: 183m

DAYS FROM SPUD: 9

(00:00-24:00)

OPERATION: DRILLING 311mm (12¹/₄") HOLE.

(As at 06:00 hours EST, 25/06/05) **DEPTH:** 1392 mMD **PROGRESS:** 232m

(06:00-06:00 EST)

\$

OPERATION: PULLING OUT OF HOLE FOR A BIT CHANGE.

AFE COST \$ CUMULATIVE COST

CASING SHOE: 340mm (13 3/8") SET AT 655m RIG: OCEAN PATRIOT

RT – SEAFLOOR: 89.7 LAT

41.6

232.2

PROGRAMMED TD: 1788 mMD **ROTARY TABLE:** 21.5 m LAT **WATER DEPTH:** 68.2m LAT

MUD DATA Wt: FL: PH: KCl Cl: PV / YP: Type: Vis: Rmf: (2400 Hours) KCL-IDCAP 1.22 49 5.0 8.4 6.0% 45k 11/26

Drilled Condition Make Type Size (mm/in.) **Hours** No. (m) 4 STC MA89PX 311mm (121/4") 11.2 183 IN HOLE **BIT DATA PRESENT LAST** (2400 Hours)

INCLINATION SURVEYS: MD(m)CLOSURE (m) **DIRECTION (T)** AZIMUTH (T) 1294.0 5.4 250.7 36.7 229.4 1322.6 5.2 39.1 230.9 252.0

PREVIOUS 24 HOURS OPERATIONS SUMMARY: (24/06/05)

1351.2

LAY OUT SPERRY LWD TOOLS. PICK UP NEW TOOLS AND SURFACE TEST. REPAIR DAMAGED ADAPTOR PIN, SURFACE TEST TOOLS. RUN IN HOLE WITH THE 311 mm ($12\frac{1}{4}$ ") DRILLING ASSEMBLY. DRILL AHEAD WITH 311 mm ($12\frac{1}{4}$ ") HOLE FROM 1160 m TO 1343 m.

252.3

00:00 - 06:00 HOURS EST (25/06/05):

CONTINUE TO DRILL 311mm (12 1/4") HOLE FROM 1343m TO 1392m. PULL OUT OF HOLE.

5.3

ANTICIPATED OPERATIONS:

PULL OUT OF HOLE. CHANGE BIT. RUN IN HOLE. DRILL AHEAD WITH 311mm (121/4") HOLE TO 1740m.

LWD SENSOR OFFSETS

GR: 8.9m, Res: 11.2m, Directional: 16.2m.

A.B.N. 80 007 550 923

WELL PROGRESS REPORT

DATE: 25/06/05 - 06:00 HRS EST	CASINO 5	REPORT NO: 4

FORMATION TOPS:	MDRT (m)	Subsea (m)	High/Low to Prognosis (m)	High /Low to Casino 2 (m)

HYDROCARBON SHOW SUMMARY			
INTERVAL	LITHOLOGY	GAS	

	GEOLOGICAL SUMMARY	
INTERVAL	LITHOLOGY	GAS
(m/hr)		
1160 – 1162m	Interbedded SILTSTONE and SANDSTONE.	1 U 100/-
25 – 25 m/hr	SILTSTONE: medium to dark greenish grey, olive brown, argillaceous grading to	
Av: 25 m/hr	silty CLAYSTONE, trace fine grained glauconite, trace nodular pyrite, soft to firm,	
	dispersive, sub blocky.	
	SANDSTONE: clear, translucent, white, occasionally yellow brown, very fine to	
	predominantly medium – coarse, poor to fair sorting, sub angular to sub round, weak	
	siliceous cement, trace light grey silty matrix, trace pyrite, trace fine grained	
	glauconite, predominantly clean quartz grains, fair to good inferred porosity, no	
	fluorescence.	
1162 – 1218m	SANDSTONE with minor interbedded SILTSTONE.	0.5 – 1 U 100/-
7 - 79 m/hr	SANDSTONE: clear, translucent, white, light grey, occasional light yellow brown Fe	0.0 1 0 100
Av: 26 m/hr	stain, fine to medium grained, trace coarse, poor to fair sorting, weak siliceous	
	cement, trace light grey silty / argillaceous matrix, trace fine grained glauconite, trace	
	nodular pyrite, fair to good inferred porosity, no fluorescence.	
	SILTSTONE: olive brown, olive black, medium to dark brownish grey, argillaceous,	
	arenaceous in part with thin very fine sandstone laminae, trace very fine glauconite,	
	trace nodular pyrite, trace black lithics, dispersive to soft, sub blocky to amorphous.	

	GEOLOGICAL SUMMARY	
INTERVAL	LITHOLOGY	GAS
(m/hr)		
1218 – 1355m	SILTSTONE with interbedded SANDSTONE.	0.5 – 2 U 99/1
4 – 46 m/hr	SILTSTONE: dark brownish grey, olive brown, argillaceous, occasionally	
Av: 16 m/hr	arenaceous, trace nodular pyrite, trace very fine glauconite, trace fine lithics, soft to	
	firm, friable in part, sub blocky.	
	SANDSTONE: translucent, clear, white to very light grey, very fine to medium	
	grained, fair sorting, sub angular to sub round, minor light grey argillaceous matrix,	
	trace pyrite, trace very fine glauconite, trace fine lithics, predominantly loose, poor to	
	fair inferred porosity, no fluorescence.	
1355 – 1392m	SILTSTONE: dark greenish grey, olive brown, rare to minor glauconite, trace nodular	2 – 3 U 99/1
2-68 m/hr	pyrite, trace micro mica, trace micro carbonaceous specks, soft to firm, trace	
Av: 10 m/hr	moderately hard, dispersive to sub blocky, trace sub fissile.	

A.B.N. 80 007 550 923

WELL PROGRESS REPORT

DATE: 26/06/05 - 06:00 HRS EST | CASINO 5 | REPORT NO: 5

(As at 2400 hours EST, 25/06/05) **DEPTH:** 1690 mMD

PROG: 347m

DAYS FROM SPUD: 10

(00:00-24:00)

OPERATION: DRILLING 311mm (12¹/₄") HOLE.

(As at 06:00 hours EST, 26/06/05) **DEPTH:** 1730 mMD **PROGRESS:** 338m

(06:00-06:00 EST)

\$

OPERATION: PULLING OUT OF HOLE TO RUN 244mm (9 5/8").

AFE COST \$ CUMULATIVE COST

CASING SHOE: 340mm (13 3/8") SET AT 655m RIG: OCEAN PATRIOT

RT – SEAFLOOR: 89.7 LAT

PROGRAMMED TD: 1788 mMD ROTARY TABLE: 21.5 m LAT WATER DEPTH: 68.2m LAT

MUD DATA Wt: FL: PH: KCl Cl: PV / YP: Type: Vis: Rmf: KCL-IDCAP 1.25 (2400 Hours) 54 3.8 8.0 6.0% 45k 17/39 0.08 ohm.m

Drilled Condition Make Type Size (mm/in.) **Hours** No. (m)5 HYC DSX104 311mm (121/4") 6.3 298 IN HOLE **BIT DATA PRESENT** STC MA89PX 1-1-BT-S-X-I-BU-**LAST** 4 311mm (121/4") 15.2 232 (2400 Hours) PR

SURVEYS: MD(m)**INCLINATION** AZIMUTH (T) CLOSURE (m) **DIRECTION (T)** 1636.2 5.9 253 67.9 240 1664.6 6.2 254 70.8 241 1693.4 6.4 252 73.9 241 1712.4 6.1 252 75.9 241

PREVIOUS 24 HOURS OPERATIONS SUMMARY: (25/06/05)

DRILL 311mm (12 ¼") HOLE FROM 1343m TO 1392m. PULL OUT OF HOLE. CHANGE BIT. DOWNLOAD LWD TOOL. RUN IN HOLE. DRILL 311mm (12 ¼") HOLE FROM 1392m TO 1690m.

00:00 – 06:00 HOURS EST (26/06/05):

CONTINUE TO DRILL 311mm (121/4") HOLE FROM 1690m TO 1730m. CIRCULATE HOLE CLEAN. PULL OUT OF HOLE.

ANTICIPATED OPERATIONS:

PULL OUT OF HOLE. RUN 244mm (9 5/8") CASING.

LWD SENSOR OFFSETS

GR: 8.77m, Res: 11.07m, Directional: 16.06m.

A.B.N. 80 007 550 923

WELL PROGRESS REPORT

DATE: 26/06/05 - 06:00 HRS EST	CASINO 5	REPORT NO: 5

FORMATION TOPS:	MDRT (m)	Subsea (m)	High/Low to Prognosis (m)	High /Low to Casino 2 (m)

HYDROCARBON SHOW SUMMARY			
INTERVAL	LITHOLOGY	GAS	

	GEOLOGICAL SUMMARY	
INTERVAL	LITHOLOGY	GAS
(m/hr)		
1392 – 1440m	SILTSTONE: dark greenish grey, olive brown, rare to minor glauconite, trace nodular	100/-
10 – 100 m/hr	pyrite, trace micro mica, trace micro carbonaceous specks, soft to firm, trace	
Av: 47 m/hr	moderately hard, dispersive to sub blocky, trace sub fissile.	
1440 – 1498m 33 – 123 m/hr Av: 58 m/hr	SILTSTONE with minor interbedded SANDSTONE. SANDSTONE: clear, translucent, white, fine to medium grained, sub angular to sub round, fair to moderately sorted, minor fine grained glauconite, trace nodular pyrite, loose quartz grains, fair to good inferred porosity, no fluorescence. SILTSTONE: dark greenish grey, olive brown as above.	2 – 10 U 99/1
1498 – 1596m 18 – 86 m/hr Av: 41 m/hr	SILTSTONE with minor interbedded SANDSTONE. SANDSTONE: clear, translucent, light grey, occasional yellow Fe stain, fine to medium occasionally coarse grained, poor sorting, fair sorting, sub angular to sub round, occasional moderately strong siliceous cement, trace light grey silty matrix, rare fine grained glauconite, trace nodular pyrite, predominantly loose, moderately hard fine grained aggregates in part, poor to fair visual porosity, no fluorescence. SILTSTONE: olive brown, brownish grey, argillaceous, rare glauconite, finely arenaceous in part, firm to occasionally moderately hard, sub blocky.	6-20 U 99/1

	GEOLOGICAL SUMMARY	
INTERVAL	LITHOLOGY	GAS
(m/hr)		
1596 – 1620m	SILTSTONE with minor interbedded SANDSTONE.	13-32 98/2/trace
44 – 130 m/hr	SANDSTONE: light brownish grey, light brown, translucent & clear in part, fine	
Av: 71 m/hr	grained, trace medium to coarse grained, moderately well sorted, sub angular to sub	
	round, moderately strong siliceous cement, minor light grey silty matrix, rare fine	
	grained glauconite, moderately hard fine grained aggregates, very poor inferred	
	porosity, no fluorescence.	
	<u>SILTSTONE</u> : as above, olive brown, brownish grey, argillaceous, rare glauconite, finely arenaceous in part, firm to occasionally moderately hard, sub blocky.	
	innery archaecous in part, firm to occasionary moderatery hard, sub blocky.	
1620 – 1638m	SILTSTONE with interbedded SANDSTONE.	20-30 U
37 - 72 m/hr	SILTSTONE: as above.	98/2/trace
Av: 46 m/hr	SANDSTONE: translucent, clear, white, fine to medium grained, trace coarse, sub	
	angular to predominantly sub round, weak siliceous cement in part, predominantly	
	loose quartz grains, good inferred porosity, no fluorescence.	
1638 – 1730m	SILTSTONE with minor interbedded SANDSTONE.	15-30 U
16– 95 m/hr	SANDSTONE: light brownish grey, light brown, translucent & clear in part, fine	98/2/trace
Av: 40 m/hr	grained, trace medium to coarse grained, moderately well sorted, sub angular to sub	
	round, moderately strong siliceous cement, minor light grey silty matrix, rare fine grained glauconite, moderately hard fine grained aggregates, loose medium to coarse	
	grains, very poor inferred porosity, no fluorescence.	
	SILTSTONE: as above.	
	<u>5101010112</u> , 45 46010.	

A.B.N. 80 007 550 923

WELL PROGRESS REPORT

DATE: 27/06/05 - 06:00 HRS EST | CASINO 5 | REPORT NO: 6

(As at 2400 hours EST, 26/06/05) **DEPTH:** 1730 mMD

PROG: 0m (00:00-24:00)

DAYS FROM SPUD: 11

OPERATION: RUNNING 244mm (9 5/8") CASING.

(As at 06:00 hours EST, 27/06/05) **DEPTH:** 1730 mMD **PROGRESS:** 0m

(06:00-06:00 EST)

OPERATION: RUNNING 244mm (9 5/8") CASING.

AFE COST \$ CUMULATIVE COST \$

CASING SHOE: 340mm (13 3/8") SET AT 655m RIG: OCEAN PATRIOT

RT – SEAFLOOR: 89.7 LAT

PROGRAMMED TD: 1788 mMD **ROTARY TABLE:** 21.5 m LAT **WATER DEPTH:** 68.2m LAT

 $\begin{tabular}{lllll} \textbf{MUD DATA} & Type: & Wt: & Vis: & FL: & PH: & KCl & Cl: & PV / YP: & Rmf: \\ \end{tabular}$

(2400 Hours) KCL-IDCAP 1.25 54 3.8 8.0 6.0% 45k 17/39 0.08 ohm.m

Drilled Condition Make Type Size (mm/in.) Hours No. (m)**BIT DATA PRESENT** 5 HYC 1-1-BT-T-X-I-N-(2400 Hours) **LAST** DSX104 311mm (121/4") 7.4 338 TD

SURVEYS: MD (m) INCLINATION AZIMUTH (T) CLOSURE (m) DIRECTION (T)

PREVIOUS 24 HOURS OPERATIONS SUMMARY: (26/06/05)

DRILL 311mm (121/4") HOLE FROM 1690m TO 1730m. CIRCULATE HOLE CLEAN. PULL OUT OF HOLE, 1730-1649m. PUMP AND BACK REAM OUT OF HOLE 1649m TO 1140m. RUN IN HOLE. CIRCULATE HOLE CLEAN. PULL OUT OF HOLE. DOWNLOAD LWD. PULL WEAR BUSHING. RIG TO RUN AND RUN 244mm (9 5/8") CASING.

00:00 - 06:00 HOURS EST (27/06/05):

CONTINUE TO RUN 244mm (9 5/8") CASING.

ANTICIPATED OPERATIONS:

RUN AND CEMENT 244mm (9 5/8") CASING.

A.B.N. 80 007 550 923

WELL PROGRESS REPORT

DATE: 27/06/05 - 06:00 HRS EST	CASINO 5	REPORT NO: 6

FORMATION	TOPS:	MDRT (m)	Subsea (m)	High/Low to Prognosis (m)	High /Low to Casino 2 (m)
	HYDROCARBON	SHOW SUMMAR	RY		
INTERVAL	LITHOLOGY				GAS
	GEOLOGICAL SI	UMMARY			
INTERVAL (m/hr)	LITHOLOGY				GAS

A.B.N. 80 007 550 923

WELL PROGRESS REPORT

DATE: 28/07/05 - 06:00 HRS EST | CASINO 5 | REPORT NO: 7

(As at 2400 hours EST, 27/06/05) DEPTH: 1730 mMD PROG: 0m DAYS FROM SPUD: 12

(00:00-24:00)

OPERATION: PRESSURE TESTING SEAL ASSEMBLY.

(As at 06:00 hours EST, 28/06/05) **DEPTH:** 1730 mMD **PROGRESS:** 0m

(06:00-06:00 EST)

OPERATION: RUNNING IN HOLE WITH THE 216mm (8½") BOTTOM HOLE ASSEMBLY.

AFE COST \$ CUMULATIVE COST \$

CASING SHOE: 244mm (9 5/8") SET AT 1719.8m RIG: OCEAN PATRIOT

RT – SEAFLOOR: 89.7 LAT

PROGRAMMED TD: 1788 mMD **ROTARY TABLE:** 21.5 m LAT **WATER DEPTH:** 68.2m LAT

(2400 Hours) KCL-IDCAP 1.25 53 4.3 7.8 6.5% 45k 17/48 0.09 ohm.m

No. Make Type Size (mm/in.) Hours Drilled Condition (m)

BIT DATA PRESENT 6 HYC DSX104 216mm (8½") - - IN HOLE

(2400 Hours) LAST

SURVEYS: MD (m) INCLINATION AZIMUTH (T) CLOSURE (m) DIRECTION (T)

PREVIOUS 24 HOURS OPERATIONS SUMMARY: (27/06/05)

RUN 244mm (9 5/8") CASING. WASH CASING DOWN FROM 1706m TO 1719m. LAND CASING, SHOE SET AT 1719.8m. CEMENT CASING AS PER PROGRAM. SET SEAL ASSEMBLY AND PRESSURE TEST.

00:00 - 06:00 HOURS EST (28/06/05):

PULL OUT OF HOLE WITH RUNNING TOOL. LAY OUT 311mm (12 ¼") LWD TOOLS, COLLARS AND STABILISERS. MAKE UP 216mm (8½") BOTTOM HOLE ASSEMBLY AND RUN IN HOLE.

ANTICIPATED OPERATIONS:

RUN IN HOLE WITH THE 216mm (8½") BOTTOM HOLE ASSEMBLY. DRILL SHOE TRACK. DRILL AHEAD WITH THE 216mm (8½") HOLE TO TOTAL DEPTH.

A.B.N. 80 007 550 923

WELL PROGRESS REPORT

DATE: 28/06/	05 - 06:00 HRS EST	C	ASINO 5	REPORT NO: 7		
FORMATION	TOPS:	MDRT (m)	Subsea (m)	gh/Low to ognosis (m)	High /Low to Casino 2 (m)	
	HYDROCARBON SI	HOW SUMMAR	RY		ř	
INTERVAL	LITHOLOGY				GAS	
					·	
INTERVAL (m/hr)	GEOLOGICAL SUM LITHOLOGY	<u>IMARY</u>			GAS	

A.B.N. 80 007 550 923

WELL PROGRESS REPORT

DATE: 29/06/05 - 06:00 HRS EST **REPORT NO: 8 CASINO 5**

(As at 2400 hours EST, 28/06/05) **DEPTH:** 1806 mMD

PROG: 76m

DAYS FROM SPUD: 13

(00:00-24:00)

OPERATION: PULLING OUT OF HOLE.

(As at 06:00 hours EST, 29/06/05) **PROGRESS:** 76m **DEPTH:** 1806 mMD

(06:00-06:00 EST)

\$

DISPLACING HOLE TO PRODUCTION BRINE. **OPERATION**:

AFE COST **CUMULATIVE COST**

CASING SHOE: 244mm (9 5/8") SET AT 1719.8m **RIG:** OCEAN PATRIOT

RT - SEAFLOOR: 89.7 LAT

PROGRAMMED TD: 1788 mMD **ROTARY TABLE:** 21.5 m LAT WATER DEPTH: 68.2m LAT

MUD DATA Wt: PH: KCl Cl: PV / YP: Type: Vis: FL: Rmf: (2400 Hours) FLO-PRO 28/06 14/33 1.24 65 5.0 9.9 6.0% 144K

		No.	Make	Type	Size (mm/in.)	Hours	Drilled (m)	Condition
BIT DATA	PRESENT							
(2400 Hours)	LAST	6	HYC	DSX104	216mm (8½")	3.7	76	IN HOLE

SURVEYS:	<u>MD</u> (m)	<u>INCLINATION</u>	AZIMUTH (T)	CLOSURE (m)	DIRECTION (T)
	1734.4	6.1	252.8	78.2	241.7
	1763.2	5.9	251.7	81.2	242.1
	1783.4	5.7	250.5	83.2	242.4

PREVIOUS 24 HOURS OPERATIONS SUMMARY: (28/06/05)

PULL OUT OF HOLE WITH THE SEAL ASSEMBLY RUNNING TOOL. LAY OUT 311mm (121/4") LWD TOOLS, COLLARS, STABILISERS. MAKE UP 216mm (81/2") BOTTOM HOLE ASSEMBLY, RUN IN HOLE. TAG CEMENT AT 1693m. DRILL CEMENT, SHOE TRACK. CLEAN RAT HOLE TO 1730m. DISPLACE HOLE TO FLO-PRO MUD SYSTEM. DRILL AHEAD WITH 216mm (81/2") HOLE FROM 1730m TO 1806m, TOTAL DEPTH, REACHED AT 19:00 HRS ON 28/06/05. CIRCULATE HOLE CLEAN. WIPER TRIP TO 1719m, RUN IN, NO FILL. CIRCULATE HOLE CLEAN. PULL OUT OF HOLE.

00:00 - 06:00 HOURS EST (29/06/05):

PULL OUT OF HOLE TO 500m. RUN IN HOLE. DISPLACE HOLE TO FLO-PRO MUD SYSTEM 1806m-1650m. PULL OUT TO 1650m. DISPLACE HOLE TO CaCI BRINE.

ANTICIPATED OPERATIONS:

DISPLACE WELL TO BRINE. PULL OUT OF HOLE. RUN SAND SCREENS AND PRODUCTION LINER.

LWD SENSOR OFF SETS

GR: 10.0m, RES: 12.3m, DIR: 18.9m

A.B.N. 80 007 550 923

WELL PROGRESS REPORT

DATE: 29/06/05 - 06:00 HRS EST | CASINO 5 | REPORT NO: 8

FORMATION TOPS:	MDRT (m)	Subsea (m)	High/Low to Prognosis (m)	High /Low to Casino 2 (m)

HYDROCARBON SHOW SUMMARY								
INTERVAL	LITHOLOGY	GAS						
1757-1770.5m 11 – 50 m/hr Av: 24 m/hr	<u>SANDSTONE</u> : translucent, clear, white, light grey in part, trace yellow stain, fine to predominantly medium to very coarse, poor sorting, sub angular to sub round, trace weak siliceous cement, trace nodular pyrite, predominantly loose clean quartz grains, good inferred porosity, no fluorescence.	585 / 20 U 97/2/1/trace						
1770.5-1786m 16 – 57 m/hr Av: 23 m/hr	<u>SANDSTONE</u> : white, translucent, clear, very fine to medium, occasionally coarse, poor to fair sorting, sub angular to sub round, common calcareous cement, common off white argillaceous matrix, trace lithics, trace nodular pyrite, friable aggregates, loose in part, poor to fair visual porosity, no fluorescence.	730 / 20 U 97/2/1/trace						

	GEOLOGICAL SUMMARY	
INTERVAL	LITHOLOGY	GAS
(m/hr) 1730 – 1746m 11 – 32 m/hr Av: 16 m/hr	SILTSTONE: medium to dark brown, olive brown, argillaceous, trace nodular pyrite, trace fine grained glauconite, trace micro carbonaceous specks, firm to occasionally moderately hard, sub blocky.	7 – 12 U 97/2/1/trace
1746 -1757m 16 – 30 m/hr Av: 21 m/hr	Interbedded SILTSTONE and very fine grained SANDSTONE. SANDSTONE: light grey, very light brownish grey, very fine grained, well sorting, grading to arenaceous SILTSTONE, sub angular to sub round, moderately strong calcareous cement, common light brownish grey argillaceous matrix, trace pyrite, trace glauconite, moderately hard, very poor visual porosity, no fluorescence. SILTSTONE: medium to dark brown, olive brown, argillaceous, trace nodular pyrite, trace fine grained glauconite, trace micro carbonaceous specks, firm to occasionally moderately hard, sub blocky.	10 – 20 U 98/2/trace

	GEOLOGICAL SUMMARY	
INTERVAL (m/hr)	LITHOLOGY	GAS
1757-1770.5m 11 – 50 m/hr Av: 24 m/hr	SANDSTONE: translucent, clear, white, light grey in part, trace yellow stain, fine to predominantly medium to very coarse, poor sorting, sub angular to sub round, trace weak siliceous cement, trace nodular pyrite, predominantly loose clean quartz grains, good inferred porosity, no fluorescence.	230 – 585 U 97/2/1/trace
1770.5-1786m 16 – 57 m/hr Av: 23 m/hr	SANDSTONE with minor interbedded SILTSTONE. SILTSTONE: light to medium grey, light to medium brownish grey, arenaceous grading to very fine SANDSTONE, rare carbonaceous flecks, friable to firm, sub blocky. SANDSTONE: white, translucent, clear, very fine to medium, occasionally coarse, poor to fair sorting, sub angular to sub round, common calcareous cement, common off white argillaceous matrix, trace lithics, trace nodular pyrite, friable aggregates, loose in part, poor to fair visual porosity, no fluorescence.	230 – 730 U 97/2/1/trace
1786 – 1806m 15 – 36 m/hr Av: 21 m/hr	Interbedded SANDSTONE and SILTSTONE. <u>SILTSTONE</u> : light to medium grey, light to medium brownish grey, arenaceous grading to and interbedded with fine grained sandstone, trace fine grained lithics, trace carbonaceous specks / flecks, trace very fine glauconite, friable to firm, sub blocky. <u>SANDSTONE</u> : white, very light grey, translucent, very fine to fine grained, trace medium, moderately strong calcareous cement, common off white very light brown argillaceous / silty matrix, common fine grained glauconite, trace nodular pyrite, trace carbonaceous flecks, friable to occasionally moderately hard, poor visual porosity, no fluorescence.	360 decreasing to 18 U 98/2/trace

A.B.N. 80 007 550 923

WELL PROGRESS REPORT

DATE: 30/06/05 - 06:00 HRS EST | CASINO 5 | REPORT NO: 9

(As at 2400 hours EST, 29/06/05) **DEPTH**: 1806 mMD

PROG: 0m

DAYS FROM SPUD: 14

(00:00-24:00)

OPERATION: RUN SAND SCREENS AND LOWER COMPLETION STRING TO 1700m.

(As at 06:00 hours EST, 29/06/05) **DEPTH:** 1806 mMD **PROGRESS:** 0m

(06:00-06:00 EST)

OPERATION: POOH ESS RUNNING TOOLS AND LANDING STRING.

AFE COST \$ CUMULATIVE COST \$

CASING SHOE: 244mm (9 5/8") SET AT 1719.8m RIG: OCEAN PATRIOT

RT – SEAFLOOR: 89.7 LAT

PROGRAMMED TD: 1788 mMD ROTARY TABLE: 21.5 m LAT WATER DEPTH: 68.2m LAT

MUD DATA	Type:	Wt:	Vis:	FL:	PH:	KCl	C1:	PV / YP:	Rmf:
(2400 Hours)	FLO-PRO 29/06	1.24	50	5.0	9.7	6.5%	148K	14/30	-
	CaCl2 BRINE 29/06	1 22			0.1		1/6V		

		No.	Make	Type	Size (mm/in.)	Hours	Drilled (m)	Condition
BIT DATA (2400 Hours)	PRESENT LAST	6	НҮС	DSX104	216mm (8½")	3.7	76	1-1-NO-A-E-I-ER-TD

SURVEYS:	<u>MD</u> (m)	INCLINATION	AZIMUTH (T)	CLOSURE (m)	DIRECTION (T)
	1734.4	6.1	252.8	78.2	241.7
	1763.2	5.9	251.7	81.2	242.1
	1783 4	5.7	250.5	83.2	242.4

PREVIOUS 24 HOURS OPERATIONS SUMMARY: (29/06/05)

PULL OUT OF HOLE TO 500m. RUN IN HOLE. DISPLACE HOLE TO FLO-PRO MUD SYSTEM 1806m-1650m. PULL OUT TO 1650m. DISPLACE HOLE TO CaCl2 BRINE. PULL OUT OF HOLE. RUN SAND SCREENS AND LOWER COMPLETION STRING TO 1700m.

00:00 – 06:00 HOURS EST (30/06/05): CONTINUE RUNNING SAND SCREENS AND LOWER COMPLETION STRING - SET PACKER AT 1800m. TEST PACKER, UNLATCH RUNNING TOOLS AND POOH.

ANTICIPATED OPERATIONS:

POOH TO SURFACE. MAKE UP EXPANDABLE SAND SCREEN (ESS) EXPANSION TOOL AND RIH ON DRILL PIPE TO TOP OFF ESS AND EXPAND SCREENS (SEE STEPS 3 & 4 IN OUTLINE BELOW). EXPECT TO BEGIN TESTING IN ABOUT 80 HOURS.



Function blind & 10 %"rams. Make up Expandable Sand Screens (ESS), 7 5/8" tubing & Lower Completion Packer Assembly. RIH ESS on Drill pipe to 1785m & set/test packer and unlatch running tools. POOH running Tools Make up ESS Expansion tool to SABS circulation tool. Make up DC's and HWDP. RIH the Expansion Tool / HWDP / DC's to top of the ESS on drill pipe. Expand ESS (2 passes). POOH Expansion tool above the ESS, cycle open SABS and displace 9 5/8" casing to inhibited calcium chloride brine at 1685m. POOH expansion tools. Laydown HWDP & DC's Scrape 9 5/8" casing and riser & jet BOP's Retrieve bore protector & jet the XT / BOP's in brine. Run upper completion tailpipe and packer and chemical cut sub. RIH upper completion 7" 13Cr80 KSBear tubing to 1500m Make up SSSV and test RIH upper completion 7" 13Cr80 KSBear tubing to 1550m RIH upper completion 7" 13Cr80 KSBear tubing to 1550m RIH upper completion 7" New Vam landing string. Install LV. Install flowhead and rig up / test welltest lines and slickline PCE. Land off completion and lock and test TH. Retrieve Isolation sleeve and run TH wireline short protection sleeve on slickline. Retrieve TH wireline short protection sleeve from THRT. Inflow test SSSV. Run and set lower plug on slickline in TH. Perform pre flow checks. Clean up the well. Retrieve TH wireline short protection sleeve from THRT. Inflow test SSSV. Run and set lower plug on slickline PCE and flowhead. Lind get TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH. RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH.	Step	Operation Description	Time (Hrs)					
tools. POOH running Tools Make up ESS Expansion tool to SABS circulation tool. Make up DC's and HWDP. RIH the Expansion Tool / HWDP / DC's to top of the ESS on drill pipe. Expand ESS (2 passes). POOH Expansion tool above the ESS, cycle open SABS and displace 9 5/8" casing to inhibited calcium chloride brine at 1685m. POOH expansion tools. Laydown HWDP & DC's Scrape 9 5/8" casing and riser & jet BOP's Retrieve bore protector & jet the XT / BOP's in brine. Run upper completion tailpipe and packer and chemical cut sub. RIH upper completion 7" 13Cr80 KSBear tubing to 1500m Make up SSSV and test RIH upper completion 7" 13Cr80 KSBear tubing to 1550m RIH upper completion 7" 13Cr80 KSBear tubing to 1550m RIH upper completion 7" 13Cr80 KSBear tubing to 1550m RIH upper completion 7" 13Cr80 KSBear tubing to 1550m RIH completion on 9 5/8" New Vam landing string. Install LV. Install flowhead and rig up / test welltest lines and slickline PCE. Land off completion and lock and test TH. Retrieve Isolation sleeve and run TH wireline short protection sleeve on slickline. Displace approx. 200bbl diesel cushion for underbalance. Run standing valve on slickline and set packer. Pressure test completion, retrieve standing valve Perform pre flow checks. Clean up the well. Retrieve TH wireline short protection sleeve from THRT. Perform pre flow checks. Clean up the well. Retrieve TH wireline short protection sleeve from THRT. Inflow test SSSV. Run and set lower plug on slickline PCE and flowhead. POOH THRT/SSTT laying down 9 5/8" land string and LV. RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH. RUN XT debris cap.	1		3					
and HWDP. RIH the Expansion Tool / HWDP / DC's to top of the ESS on drill pipe. Expand ESS (2 passes). POOH Expansion tool above the ESS, cycle open SABS and displace 9 5/8" casing to inhibited calcium chloride brine at 1685m. POOH expansion tools. Laydown HWDP & DC's Scrape 9 5/8" casing and riser & jet BOP's	2	tools. POOH running Tools	14					
4 open SABS and displace 9 5/8" casing to inhibited calcium chloride brine at 1685m. POOH expansion tools. Laydown HWDP & DC's 5 Scrape 9 5/8" casing and riser & jet BOP's 6 Retrieve bore protector & jet the XT / BOP's in brine. 7 Run upper completion tailpipe and packer and chemical cut sub. 2 RIH upper completion 7" 13Cr80 KSBear tubing to 1500m 9 Make up SSSV and test 10 RIH upper completion 7" 13Cr80 KSBear tubing to 1550m 11 Make up TH and terminate SSSV. 4 Install THRT/SSTT onto TH and function test. RIH Completion on 9 5/8" New Vam landing string. Install LV. Install flowhead and rig up / test welltest lines and slickline PCE. 14 Land off completion and lock and test TH. Retrieve Isolation sleeve and run TH wireline short protection sleeve on slickline. 15 Displace approx. 200bbl diesel cushion for underbalance. 2 Run standing valve on slickline and set packer. Pressure test completion, retrieve standing valve 17 Perform pre flow checks. Clean up the well. 18 Retrieve TH wireline short protection sleeve from THRT. 2 Inflow test SSSV. Run and set lower plug on slickline in TH. 2 Unlatch THRT/SSTT laying down 9 5/8" land string and LV. 2 RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH. 23 Pull BOP's. 14 Ren XT debris cap.	3	and HWDP. RIH the Expansion Tool / HWDP / DC's to top of the ESS	8					
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24 Run XT debris cap. 1	23		16					
			10					
	25	Pull anchors & move to next well	20					

Total (Hrs)	165
Total (Days)	6.9

A.B.N. 80 007 550 923

WELL PROGRESS REPORT

DATE: 01/07/05 - 06:00 HRS EST **REPORT NO: 10 CASINO 5**

(As at 2400 hours EST, 30/06/05) **DEPTH:** 1806 mMD

PROG: 0m

DAYS FROM SPUD: 15

(00:00-24:00)

OPERATION: CONTINUE RIH TO EXPAND SCREENS.

(As at 06:00 hours EST, 01/07/05) PROGRESS: 0m **DEPTH:** 1806 mMD

(06:00-06:00 EST)

POOH AFTER EXPANDING SAND SCREENS. **OPERATION**:

\$ AFE COST **CUMULATIVE COST**

CASING SHOE: 244mm (9 5/8") SET AT 1719.8m **RIG:** OCEAN PATRIOT

RT - SEAFLOOR: 89.7 LAT

PROGRAMMED TD: 1788 mMD **ROTARY TABLE:** 21.5 m LAT WATER DEPTH: 68.2m LAT

MUD DATA	Type:	Wt:	Vis:	FL:	PH:	KCl	C1:	PV / YP:	Rmf:
(2400 Hours)	FLO-PRO 30/06	1.24	50	5.0	9.7	6.5%	148K	14/30	-
	CaCl2 BRINE 30/06	1 22			0.1		146V		

		No.	Make	Type	Size (mm/in.)	Hours	Drilled (m)	Condition
BIT DATA (2400 Hours)	PRESENT LAST	6	НҮС	DSX104	216mm (8½")	3.7	76	1-1-NO-A-E-I-ER-TD

SURVEYS:	<u>MD</u> (m)	<u>INCLINATION</u>	AZIMUTH (T)	CLOSURE (m)	DIRECTION (T)
	1734.4	6.1	252.8	78.2	241.7
	1763.2	5.9	251.7	81.2	242.1
	1783.4	5.7	250.5	83.2	242.4

PREVIOUS 24 HOURS OPERATIONS SUMMARY: (30/06/05)

CONTINUE RUNNING SAND SCREENS AND LOWER COMPLETION STRING - SET PACKER AT 1800m. TEST PACKER, UNLATCH RUNNING TOOLS AND POOH TO SURFACE. MAKE UP EXPANDABLE SAND SCREEN (ESS) EXPANSION TOOL AND RIH ON DRILL PIPE AND BHA TO TOP OF ESS TO EXPAND SCREENS. ENCOUNTER PROBLEM WHEN DRILL COLLARS ARE TOO LARGE TO ENTER ESS - POOH AND CHANGE BHA SO THAT EXPANDER TOOL SITS BELOW HWDP WITH DCs ABOVE THEM. RIH AGAIN TO EXPAND SCREENS.

00:00 - 06:00 HOURS EST (01/07/05): CONTINUE RIH TO EXPAND SCREENS. EXPAND SAND SCREENS (2 PASSES) ONE BY ONE, THEN POOH TO SURFACE.

ANTICIPATED OPERATIONS:

CONTINUE PULL OUT OF HOLE WITH EXPANSION TOOL. RUN CASING SCRAPER AND BOP JETTING TOOL. RUN UPPER COMPLETION STRING. (SEE STEPS 5-7 IN OUTLINE BELOW). EXPECT TO BEGIN TESTING IN ABOUT 70 HOURS.



Function blind & 10 %"rams. Make up Expandable Sand Screens (ESS), 7 5/8" tubing & Lower Completion Packer Assembly. RIH ESS on Drill pipe to 1785m & set/test packer and unlatch running tools. POOH running Tools Make up ESS Expansion tool to SABS circulation tool. Make up DC's and HWDP. RIH the Expansion Tool / HWDP / DC's to top of the ESS on drill pipe. Expand ESS (2 passes). POOH Expansion tool above the ESS, cycle open SABS and displace 9 5/8" casing to inhibited calcium chloride brine at 1685m. POOH expansion tools. Laydown HWDP & DC's Scrape 9 5/8" casing and riser & jet BOP's Retrieve bore protector & jet the XT / BOP's in brine. Run upper completion tailpipe and packer and chemical cut sub. RIH upper completion 7" 13Cr80 KSBear tubing to 1500m Make up SSSV and test RIH upper completion 7" 13Cr80 KSBear tubing to 1550m RIH upper completion 7" 13Cr80 KSBear tubing to 1550m RIH upper completion 7" New Vam landing string. Install LV. Install flowhead and rig up / test welltest lines and slickline PCE. Land off completion and lock and test TH. Retrieve Isolation sleeve and run TH wireline short protection sleeve on slickline. Retrieve TH wireline short protection sleeve from THRT. Inflow test SSSV. Run and set lower plug on slickline in TH. Perform pre flow checks. Clean up the well. Retrieve TH wireline short protection sleeve from THRT. Inflow test SSSV. Run and set lower plug on slickline PCE and flowhead. Lind get TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH. RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH.	Step	Operation Description	Time (Hrs)					
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24 Run XT debris cap. 1	23		16					
			10					
	25	Pull anchors & move to next well	20					

Total (Hrs)	165
Total (Days)	6.9

A.B.N. 80 007 550 923

WELL PROGRESS REPORT

DATE: 02/07/05 - 06:00 HRS EST | CASINO 5 | REPORT NO: 11

(As at 2400 hours EST, 01/07/05) **DEPTH**: 1806 mMD

PROG: 0m

DAYS FROM SPUD: 16

(00:00-24:00)

OPERATION: POOH SCRAPER ASSEMBLY

(As at 06:00 hours EST, 02/07/05) **DEPTH**: 1806 mMD **PROGRESS**: 0m

(06:00-06:00 EST)

OPERATION: PREPARING TO RUN UPPER COMPLETION STRING

AFE COST \$ CUMULATIVE COST \$

CASING SHOE: 244mm (9 5/8") SET AT 1719.8m RIG: OCEAN PATRIOT

RT – SEAFLOOR: 89.7 LAT

PROGRAMMED TD: 1788 mMD ROTARY TABLE: 21.5 m LAT WATER DEPTH: 68.2m LAT

MUD DATA Wt: FL: PH: **KCl** Cl: PV / YP: Rmf: Type: Vis: (2400 Hours) FLO-PRO 30/06 6.5% 14/30 1.24 50 5.0 9.7 148K CaCl2 BRINE 30/06 1.22 9.1 146K

		No.	Make	Type	Size (mm/in.)	Hours	Drilled (m)	Condition
BIT DATA (2400 Hours)	PRESENT LAST	6	НҮС	DSX104	216mm (8½")	3.7	76	1-1-NO-A-E-I-ER-TD

SURVEYS:	<u>MD</u> (m)	INCLINATION	AZIMUTH (T)	CLOSURE (m)	DIRECTION (T)
	1734.4	6.1	252.8	78.2	241.7
	1763.2	5.9	251.7	81.2	242.1
	1783 4	5.7	250.5	83.2	242.4

PREVIOUS 24 HOURS OPERATIONS SUMMARY: (01/07/05)

RAN CASING SCRAPER AND BOP JETTING TOOL, SCRAPED 9-5/8" CASING, DISPLACED WELL TO BRINE, POOH SCRAPER ASSEMBLY.

00:00-06:00 Hours est (01/07/05): Rih and retrieved bore protector, rigged up to run upper completion string

ANTICIPATED OPERATIONS:

RUN UPPER COMPLETION STRING, MAKE UP SSSV AND TEST, CONTINUE RUNNING COMPLETION STRING, MAKE UP TH, TERMINATE SSSV. (SEE POINTS 7-11 BELOW)



Function blind & 10 %"rams. Make up Expandable Sand Screens (ESS), 7 5/8" tubing & Lower Completion Packer Assembly. RIH ESS on Drill pipe to 1785m & set/test packer and unlatch running tools. POOH running Tools Make up ESS Expansion tool to SABS circulation tool. Make up DC's and HWDP. RIH the Expansion Tool / HWDP / DC's to top of the ESS on drill pipe. Expand ESS (2 passes). POOH Expansion tool above the ESS, cycle open SABS and displace 9 5/8" casing to inhibited calcium chloride brine at 1685m. POOH expansion tools. Laydown HWDP & DC's Scrape 9 5/8" casing and riser & jet BOP's Retrieve bore protector & jet the XT / BOP's in brine. Run upper completion tailpipe and packer and chemical cut sub. RIH upper completion 7" 13Cr80 KSBear tubing to 1500m Make up SSSV and test RIH upper completion 7" 13Cr80 KSBear tubing to 1550m RIH upper completion 7" 13Cr80 KSBear tubing to 1550m RIH upper completion 7" New Vam landing string. Install LV. Install flowhead and rig up / test welltest lines and slickline PCE. Land off completion and lock and test TH. Retrieve Isolation sleeve and run TH wireline short protection sleeve on slickline. Retrieve TH wireline short protection sleeve from THRT. Inflow test SSSV. Run and set lower plug on slickline in TH. Perform pre flow checks. Clean up the well. Retrieve TH wireline short protection sleeve from THRT. Inflow test SSSV. Run and set lower plug on slickline PCE and flowhead. Lind get TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH. RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH.	Step	Operation Description	Time (Hrs)					
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24 Run XT debris cap. 1	23		16					
			10					
	25	Pull anchors & move to next well	20					

Total (Hrs)	165
Total (Days)	6.9

A.B.N. 80 007 550 923

WELL PROGRESS REPORT

DATE: 03/07/05 - 06:00 HRS EST | CASINO 5 | REPORT NO: 12

(As at 2400 hours EST, 02/07/05)

DEPTH: 1806 mMD

PROG: 0m

DAYS FROM SPUD: 17

(00:00-24:00)

OPERATION: MAKE UP TUBING HANGER

(As at 06:00 hours EST, 03/07/05)

DEPTH: 1806 mMD

PROGRESS: 0m

\$

(06:00-06:00 EST)

OPERATION: INSTALLING FLOWHEAD

AFE COST \$ CUMULATIVE COST

CASING SHOE: 244mm (9 5/8") SET AT 1719.8m RIG: OCEAN PATRIOT

RT – SEAFLOOR: 89.7 LAT WATER DEPTH: 68.2m LAT

PROGRAMMED TD: 1788 mMD ROTARY TABLE: 21.5 m LAT WATER DEPT

MUD DATA PV / YP: Wt: FL: PH: **KC1** C1: Rmf: Type: Vis: (2400 Hours) FLO-PRO 30/06 1.24 9.7 6.5% 148K 14/30 50 5.0 CaCl2 BRINE 30/06 146K 1.22 9.1

		No.	Make	Type	Size (mm/in.)	Hours	Drilled (m)	Condition
BIT DATA (2400 Hours)	PRESENT LAST	6	НҮС	DSX104	216mm (8½")	3.7	76	1-1-NO-A-E-I-ER-TD

SURVEYS:	<u>MD</u> (m)	INCLINATION	AZIMUTH (T)	CLOSURE (m)	DIRECTION (T)
	1734.4	6.1	252.8	78.2	241.7
	1763.2	5.9	251.7	81.2	242.1
	1783.4	5.7	250.5	83.2	242.4

PREVIOUS 24 HOURS OPERATIONS SUMMARY: (02/07/05)

RUN UPPER COMPLETION STRING, MAKE UP SSSV AND TEST, CONTINUE RUNNING COMPLETION STRING,

00:00-06:00 HOURS EST (03/07/05): MADE UP TH AND TERMINATED SSSV, INSTALLED THRT/SSTT ONTO TH AND FUNCTION TESTED, RIH COMPLETIONS ON 9-5/8" LANDING STRING, INSTALL LV, INSTALL FLOWHEAD

ANTICIPATED OPERATIONS:

RIGUP WELLTEST LINES AND SLICKLINE PCE. (POINT 13), LANDOFF COMPLETION, LOCK AND TEST TH (POINT 14)



Function blind & 10 %"rams. Make up Expandable Sand Screens (ESS), 7 5/8" tubing & Lower Completion Packer Assembly. RIH ESS on Drill pipe to 1785m & set/test packer and unlatch running tools. POOH running Tools Make up ESS Expansion tool to SABS circulation tool. Make up DC's and HWDP. RIH the Expansion Tool / HWDP / DC's to top of the ESS on drill pipe. Expand ESS (2 passes). POOH Expansion tool above the ESS, cycle open SABS and displace 9 5/8" casing to inhibited calcium chloride brine at 1685m. POOH expansion tools. Laydown HWDP & DC's Scrape 9 5/8" casing and riser & jet BOP's Retrieve bore protector & jet the XT / BOP's in brine. Run upper completion tailpipe and packer and chemical cut sub. RIH upper completion 7" 13Cr80 KSBear tubing to 1500m Make up SSSV and test RIH upper completion 7" 13Cr80 KSBear tubing to 1550m RIH upper completion 7" 13Cr80 KSBear tubing to 1550m RIH upper completion 7" New Vam landing string. Install LV. Install flowhead and rig up / test welltest lines and slickline PCE. Land off completion and lock and test TH. Retrieve Isolation sleeve and run TH wireline short protection sleeve on slickline. Retrieve TH wireline short protection sleeve from THRT. Inflow test SSSV. Run and set lower plug on slickline in TH. Perform pre flow checks. Clean up the well. Retrieve TH wireline short protection sleeve from THRT. Inflow test SSSV. Run and set lower plug on slickline PCE and flowhead. Lind get TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH. RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH.	Step	Operation Description	Time (Hrs)				
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24 Run XT debris cap. 1	23		16				
			10				
	25	Pull anchors & move to next well	20				

Total (Hrs)	165
Total (Days)	6.9

A.B.N. 80 007 550 923

WELL PROGRESS REPORT

DATE: 04/07/05 - 06:00 HRS EST | CASINO 5 | REPORT NO: 13

(As at 2400 hours EST, 03/07/05) **DEPTH:** 1806 mMD

PROG: 0m

DAYS FROM SPUD: 18

(00:00-24:00)

OPERATION: RE-RUN ISOLATION SLEEVE

(As at 06:00 hours EST, 04/07/05) **DEPTH**: 1806 mMD **PROGRESS**: 0m

(06:00-06:00 EST)

OPERATION: ATTEMPTING TEST ON TH

AFE COST \$ CUMULATIVE COST \$

CASING SHOE: 244mm (9 5/8") SET AT 1719.8m RIG: OCEAN PATRIOT

RT – SEAFLOOR: 89.7 LAT

PROGRAMMED TD: 1788 mMD ROTARY TABLE: 21.5 m LAT WATER DEPTH: 68.2m LAT

MUD DATA PV / YP: Wt: FL: PH: **KC1** C1: Rmf: Type: Vis: (2400 Hours) FLO-PRO 30/06 1.24 9.7 6.5% 148K 14/30 50 5.0 CaCl2 BRINE 30/06 146K 1.22 9.1

		No.	Make	Туре	Size (mm/in.)	Hours	Drilled (m)	Condition
BIT DATA (2400 Hours)	PRESENT LAST	6	НҮС	DSX104	216mm (8½")	3.7	76	1-1-NO-A-E-I-ER-TD

SURVEYS:	<u>MD</u> (m)	INCLINATION	AZIMUTH (T)	CLOSURE (m)	DIRECTION (T)
	1734.4	6.1	252.8	78.2	241.7
	1763.2	5.9	251.7	81.2	242.1
	1783.4	5.7	250.5	83.2	242.4

PREVIOUS 24 HOURS OPERATIONS SUMMARY: (03/07/05)

RIGUP WELLTEST LINES AND SLICKLINE PCE. (POINT 13), LANDOFF COMPLETION, LOCK AND TEST TH (POINT 14)

00:00 – 06:00 HOURS EST (03/07/05): TEST ON TH FAILED, RETRIEVED SUSPECT ISOLATION SLEEVE, AND RUN NEW ISOLATION SLEEVE WITH SLICKLINE WIRELINE.

ANTICIPATED OPERATIONS:

LANDOFF COMPLETION, LOCK AND TEST TH (POINT 14), DISPLACE 200BBL DIESEL CUSHION, RUN STANDING VALVE ON SLICKLINE AND SET PACKER, PRESSURE TEST COMPLETION (POINTS 15,16)



Function blind & 10 %"rams. Make up Expandable Sand Screens (ESS), 7 5/8" tubing & Lower Completion Packer Assembly. RIH ESS on Drill pipe to 1785m & set/test packer and unlatch running tools. POOH running Tools Make up ESS Expansion tool to SABS circulation tool. Make up DC's and HWDP. RIH the Expansion Tool / HWDP / DC's to top of the ESS on drill pipe. Expand ESS (2 passes). POOH Expansion tool above the ESS, cycle open SABS and displace 9 5/8" casing to inhibited calcium chloride brine at 1685m. POOH expansion tools. Laydown HWDP & DC's Scrape 9 5/8" casing and riser & jet BOP's Retrieve bore protector & jet the XT / BOP's in brine. Run upper completion tailpipe and packer and chemical cut sub. RIH upper completion 7" 13Cr80 KSBear tubing to 1500m Make up SSSV and test RIH upper completion 7" 13Cr80 KSBear tubing to 1550m RIH upper completion 7" 13Cr80 KSBear tubing to 1550m RIH upper completion 7" New Vam landing string. Install LV. Install flowhead and rig up / test welltest lines and slickline PCE. Land off completion and lock and test TH. Retrieve Isolation sleeve and run TH wireline short protection sleeve on slickline. Retrieve TH wireline short protection sleeve from THRT. Inflow test SSSV. Run and set lower plug on slickline in TH. Perform pre flow checks. Clean up the well. Retrieve TH wireline short protection sleeve from THRT. Inflow test SSSV. Run and set lower plug on slickline PCE and flowhead. Lind get TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH. RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH.	Step	Operation Description	Time (Hrs)				
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24 Run XT debris cap. 1	23		16				
			10				
	25	Pull anchors & move to next well	20				

Total (Hrs)	165
Total (Days)	6.9

A.B.N. 80 007 550 923

WELL PROGRESS REPORT

DATE: 05/07/05 - 06:00 HRS EST | CASINO 5 | REPORT NO: 14

(As at 2400 hours EST, 04/07/05) **DEPTH**: 1806 mMD

PROG: 0m

DAYS FROM SPUD: 19

(00:00-24:00)

OPERATION: FLOW WELL TO CLEAN UP

(As at 06:00 hours EST, 05/07/05) **DEPTH:** 1806 mMD **PROGRESS:** 0m

(06:00-06:00 EST)

\$

OPERATION: INSTALLING LOWER TH PLUG

AFE COST \$ CUMULATIVE COST

CASING SHOE: 244mm (9 5/8") SET AT 1719.8m RIG: OCEAN PATRIOT

RT – SEAFLOOR: 89.7 LAT

PROGRAMMED TD: 1788 mMD ROTARY TABLE: 21.5 m LAT WATER DEPTH: 68.2m LAT

MUD DATA FL: PV / YP: Wt: PH: **KC1** C1: Rmf: Type: Vis: (2400 Hours) FLO-PRO 30/06 1.24 6.5% 148K 14/30 50 5.0 9.7 CaCl2 BRINE 30/06 1.22 9.1 146K

		No.	Make	Type	Size (mm/in.)	Hours	Drilled (m)	Condition
BIT DATA (2400 Hours)	PRESENT LAST	6	НҮС	DSX104	216mm (8½")	3.7	76	1-1-NO-A-E-I-ER-TD

SURVEYS:	<u>MD</u> (m)	INCLINATION	AZIMUTH (T)	CLOSURE (m)	DIRECTION (T)
	1734.4	6.1	252.8	78.2	241.7
	1763.2	5.9	251.7	81.2	242.1
	1783.4	5.7	250.5	83.2	242.4

PREVIOUS 24 HOURS OPERATIONS SUMMARY: (04/07/05)

LOCKED AND TESTED ISOLATION SLEEVE, RUN TH WIRELINE SHORT PROTECTION SLEEVE, DISPLACED 200BBL DIESEL CUSHION, RUN STANDING VALVE AND SET PACKER, PRESSURE TESTED COMPLETION, RETRIEVED STANDING VALVE, PERFORMED PRE-FLOW CHECKS (POINTS 14,15,16)

00:00 – 06:00 HOURS EST (06/07/05): FLOWED TO CLEAN UP WELL (POINT 17)

ANTICIPATED OPERATIONS:

RETRIEVE TH WIRLEINE SHORT PROTECTION SLEEVE, INFLOW TEST SSSV, SET LOWER PACKER IN TH, UNLATCH THRT, RIGDOWN SURFACE LINES, SLICKLINE PCE AND FLOWHEAD, POOH THRT/SSTT. (POINTS 18,19,20)



Function blind & 10 %"rams. Make up Expandable Sand Screens (ESS), 7 5/8" tubing & Lower Completion Packer Assembly. RIH ESS on Drill pipe to 1785m & set/test packer and unlatch running tools. POOH running Tools Make up ESS Expansion tool to SABS circulation tool. Make up DC's and HWDP. RIH the Expansion Tool / HWDP / DC's to top of the ESS on drill pipe. Expand ESS (2 passes). POOH Expansion tool above the ESS, cycle open SABS and displace 9 5/8" casing to inhibited calcium chloride brine at 1685m. POOH expansion tools. Laydown HWDP & DC's Scrape 9 5/8" casing and riser & jet BOP's Retrieve bore protector & jet the XT / BOP's in brine. Run upper completion tailpipe and packer and chemical cut sub. RIH upper completion 7" 13Cr80 KSBear tubing to 1500m Make up SSSV and test RIH upper completion 7" 13Cr80 KSBear tubing to 1550m RIH upper completion 7" 13Cr80 KSBear tubing to 1550m RIH upper completion 7" New Vam landing string. Install LV. Install flowhead and rig up / test welltest lines and slickline PCE. Land off completion and lock and test TH. Retrieve Isolation sleeve and run TH wireline short protection sleeve on slickline. Retrieve TH wireline short protection sleeve from THRT. Inflow test SSSV. Run and set lower plug on slickline in TH. Perform pre flow checks. Clean up the well. Retrieve TH wireline short protection sleeve from THRT. Inflow test SSSV. Run and set lower plug on slickline PCE and flowhead. Lind get TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH. RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH.	Step	Operation Description	Time (Hrs)				
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12 Install THRT/SSTT onto TH and function test. 13 RIH Completion on 9 5/8" New Vam landing string. Install LV. Install flowhead and rig up / test welltest lines and slickline PCE. 14 Land off completion and lock and test TH. Retrieve Isolation sleeve and run TH wireline short protection sleeve on slickline. 15 Displace approx. 200bbl diesel cushion for underbalance. 2 Run standing valve on slickline and set packer. Pressure test completion, retrieve standing valve 17 Perform pre flow checks. Clean up the well. 18 Retrieve TH wireline short protection sleeve from THRT. 2 Inflow test SSSV. Run and set lower plug on slickline in TH. 2 Unlatch THRT from TH. Rig down surface lines, slickline PCE and flowhead. 21 POOH THRT/SSTT laying down 9 5/8" land string and LV. 22 RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH. 23 Pull BOP's. 16 4.5 17 Performence and flowhead. 24 Run XT debris cap.	10	RIH upper completion 7" 13Cr80 KSBear tubing to 1550m	0.5				
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flowhead and rig up / test welltest lines and slickline PCE. Land off completion and lock and test TH. Retrieve Isolation sleeve and run TH wireline short protection sleeve on slickline. Displace approx. 200bbl diesel cushion for underbalance. Run standing valve on slickline and set packer. Pressure test completion, retrieve standing valve Perform pre flow checks. Clean up the well. Retrieve TH wireline short protection sleeve from THRT. Inflow test SSSV. Run and set lower plug on slickline in TH. Unlatch THRT from TH. Rig down surface lines, slickline PCE and flowhead. POOH THRT/SSTT laying down 9 5/8" land string and LV. RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH. Run XT debris cap.	12	Install THRT/SSTT onto TH and function test.	4.5				
14 Land off completion and lock and test TH. Retrieve Isolation sleeve and run TH wireline short protection sleeve on slickline. 15 Displace approx. 200bbl diesel cushion for underbalance. 2 Run standing valve on slickline and set packer. Pressure test completion, retrieve standing valve 17 Perform pre flow checks. Clean up the well. 18 Retrieve TH wireline short protection sleeve from THRT. 19 Inflow test SSSV. Run and set lower plug on slickline in TH. 20 Unlatch THRT from TH. Rig down surface lines, slickline PCE and flowhead. 21 POOH THRT/SSTT laying down 9 5/8" land string and LV. 22 RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH. 23 Pull BOP's. 16 RIN XT debris cap.	13		12				
run TH wireline short protection sleeve on slickline. 15 Displace approx. 200bbl diesel cushion for underbalance. 2 Run standing valve on slickline and set packer. Pressure test completion, retrieve standing valve 17 Perform pre flow checks. Clean up the well. 18 Retrieve TH wireline short protection sleeve from THRT. 2 Inflow test SSSV. Run and set lower plug on slickline in TH. 2 Unlatch THRT from TH. Rig down surface lines, slickline PCE and flowhead. 21 POOH THRT/SSTT laying down 9 5/8" land string and LV. 22 RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH. 23 Pull BOP's. 16 THRT/SSTT. POOH. 17 POOH THRT/SSTT. POOH. 18 PULL BOP's. 19 POOH THRT/SSTT. POOH. 19 PULL BOP's. 10 POOH THRT/SSTT. POOH.							
15 Displace approx. 200bbl diesel cushion for underbalance. 2 16 Run standing valve on slickline and set packer. Pressure test completion, retrieve standing valve 17 Perform pre flow checks. Clean up the well. 12 18 Retrieve TH wireline short protection sleeve from THRT. 2 19 Inflow test SSSV. Run and set lower plug on slickline in TH. 2 20 Unlatch THRT from TH. Rig down surface lines, slickline PCE and flowhead. 6 21 POOH THRT/SSTT laying down 9 5/8" land string and LV. 2 22 RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH. 6 23 Pull BOP's. 16 24 Run XT debris cap. 1	14		6				
Run standing valve on slickline and set packer. Pressure test completion, retrieve standing valve 17 Perform pre flow checks. Clean up the well. 18 Retrieve TH wireline short protection sleeve from THRT. 2 Inflow test SSSV. Run and set lower plug on slickline in TH. 2 Unlatch THRT from TH. Rig down surface lines, slickline PCE and flowhead. 21 POOH THRT/SSTT laying down 9 5/8" land string and LV. 22 RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH. 23 Pull BOP's. 16 24 Run XT debris cap.	15		2				
17Perform pre flow checks. Clean up the well.1218Retrieve TH wireline short protection sleeve from THRT.219Inflow test SSSV. Run and set lower plug on slickline in TH.220Unlatch THRT from TH. Rig down surface lines, slickline PCE and flowhead.621POOH THRT/SSTT laying down 9 5/8" land string and LV.222RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH.623Pull BOP's.1624Run XT debris cap.1	16	Run standing valve on slickline and set packer. Pressure test	6				
18 Retrieve TH wireline short protection sleeve from THRT. 2 19 Inflow test SSSV. Run and set lower plug on slickline in TH. 2 20 Unlatch THRT from TH. Rig down surface lines, slickline PCE and flowhead. 6 21 POOH THRT/SSTT laying down 9 5/8" land string and LV. 2 22 RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH. 6 23 Pull BOP's. 16 24 Run XT debris cap. 1	17		12				
19 Inflow test SSSV. Run and set lower plug on slickline in TH. 2 20 Unlatch THRT from TH. Rig down surface lines, slickline PCE and flowhead. 6 21 POOH THRT/SSTT laying down 9 5/8" land string and LV. 2 22 RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH. 6 23 Pull BOP's. 16 24 Run XT debris cap. 1	18		2				
Unlatch THRT from TH. Rig down surface lines, slickline PCE and flowhead. 21 POOH THRT/SSTT laying down 9 5/8" land string and LV. 22 RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH. 23 Pull BOP's. 24 Run XT debris cap.	19		2				
22 RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH. 23 Pull BOP's. 24 Run XT debris cap. 6 16	20	Unlatch THRT from TH. Rig down surface lines, slickline PCE and	6				
22 RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH. 23 Pull BOP's. 24 Run XT debris cap. 6 16	21	POOH THRT/SSTT laying down 9 5/8" land string and LV.	2				
23 Pull BOP's. 16 24 Run XT debris cap. 1	22	RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on	6				
24 Run XT debris cap. 1	23		16				
			10				
	25	Pull anchors & move to next well	20				

Total (Hrs)	165
Total (Days)	6.9

A.B.N. 80 007 550 923

WELL PROGRESS REPORT

DATE: 06/07/05 - 06:00 HRS EST | CASINO 5 | REPORT NO: 15

(As at 2400 hours EST, 05/07/05) **DEPTH**: 1806 mMD

PROG: 0m

DAYS FROM SPUD: 20

(00:00-24:00)

OPERATION: RUN AND SET ITC ON THRT / SSTT

(As at 06:00 hours EST, 06/07/05) **DEPTH**: 1806 mMD **PROGRESS**: 0m

(06:00-06:00 EST)

OPERATION: PULL BOP'S

AFE COST \$ CUMULATIVE COST \$

CASING SHOE: 244mm (9 5/8") SET AT 1719.8m RIG: OCEAN PATRIOT

RT – SEAFLOOR: 89.7 LAT

PROGRAMMED TD: 1788 mMD **ROTARY TABLE:** 21.5 m LAT **WATER DEPTH:** 68.2m LAT

MUD DATA PV / YP: Wt: FL: PH: **KC1** C1: Rmf: Type: Vis: (2400 Hours) FLO-PRO 30/06 9.7 6.5% 148K 14/30 1.24 50 5.0 CaCl2 BRINE 30/06 1.22 9.1 146K

		No.	Make	Type	Size (mm/in.)	Hours	Drilled (m)	Condition
BIT DATA (2400 Hours)	PRESENT LAST	6	НҮС	DSX104	216mm (8½")	3.7	76	1-1-NO-A-E-I-ER-TD

SURVEYS:	<u>MD</u> (m)	INCLINATION	AZIMUTH (T)	CLOSURE (m)	DIRECTION (T)
	1734.4	6.1	252.8	78.2	241.7
	1763.2	5.9	251.7	81.2	242.1
	1783.4	5.7	250.5	83.2	242.4

PREVIOUS 24 HOURS OPERATIONS SUMMARY: (04/07/05)

RETRIEVE TH WIRLEINE SHORT PROTECTION SLEEVE, INFLOW TEST SSSV, SET LOWER PACKER IN TH, UNLATCH THRT, RIGDOWN SURFACE LINES, SLICKLINE PCE AND FLOWHEAD, POOH THRT/SSTT, POOH THRT/SSTT, LAY DOWN 9-5/8" LANDING STRING

00:00 - 06:00 HOURS EST (06/07/05): JET TH/XT, SET / TEST ITC ON THRT/SSTT, POOH

ANTICIPATED OPERATIONS:

PULL BOP'S. RUN DEBRIS CAP, PULL ANCHORS.



Step	Operation Description	Time (Hrs)		
1	Function blind & 10 ¾"rams. Make up Expandable Sand Screens (ESS), 7 5/8" tubing & Lower Completion Packer Assembly.			
2	RIH ESS on Drill pipe to 1785m & set/test packer and unlatch running tools. POOH running Tools	14		
3	Make up ESS Expansion tool to SABS circulation tool. Make up DC's and HWDP. RIH the Expansion Tool / HWDP / DC's to top of the ESS on drill pipe.	8		
4	Expand ESS (2 passes). POOH Expansion tool above the ESS, cycle open SABS and displace 9 5/8" casing to inhibited calcium chloride brine at 1685m. POOH expansion tools. Laydown HWDP & DC's	10		
5	Scrape 9 5/8" casing and riser & jet BOP's	14		
6	Retrieve bore protector & jet the XT / BOP's in brine.	1		
7	Run upper completion tailpipe and packer and chemical cut sub.	2		
8	RIH upper completion 7" 13Cr80 KSBear tubing to 1500m	9		
9	Make up SSSV and test	2		
10	RIH upper completion 7" 13Cr80 KSBear tubing to 1550m	0.5		
11	Make up TH and terminate SSSV.	4		
12	Install THRT/SSTT onto TH and function test.	4.5		
13	RIH Completion on 9 5/8" New Vam landing string. Install LV. Install	12		
	flowhead and rig up / test welltest lines and slickline PCE.			
14	Land off completion and lock and test TH. Retrieve Isolation sleeve and run TH wireline short protection sleeve on slickline.	6		
15	Displace approx. 200bbl diesel cushion for underbalance.	2		
16	Run standing valve on slickline and set packer. Pressure test completion, retrieve standing valve	6		
17	Perform pre flow checks. Clean up the well.	12		
18	Retrieve TH wireline short protection sleeve from THRT.	2		
19	Inflow test SSSV. Run and set lower plug on slickline in TH.	2		
20	Unlatch THRT from TH. Rig down surface lines, slickline PCE and flowhead.	6		
21	POOH THRT/SSTT laying down 9 5/8" land string and LV.	2		
RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on		6		
	THRT/SSTT. POOH.	Ů		
23	Pull BOP's.	16		
24	Run XT debris cap.			
25	Pull anchors & move to next well	20		

Total (Hrs)	165
Total (Days)	6.9

A.B.N. 80 007 550 923

WELL PROGRESS REPORT

DATE: 07/07/05 - 06:00 HRS EST | CASINO 5 | REPORT NO: 16

(As at 2400 hours EST, 06/07/05) **DEPTH:** 1806 mMD

PROG: 0m (00:00-24:00)

DAYS FROM SPUD: 21

OPERATION: WAITING ON WEATHER

(As at 06:00 hours EST, 07/07/05) **DEPTH:** 1806 mMD **PROGRESS:** 0m

(06:00-06:00 EST)

OPERATION: WAITING ON WEATHER

AFE COST \$ CUMULATIVE COST \$

CASING SHOE: 244mm (9 5/8") SET AT 1719.8m RIG: OCEAN PATRIOT

RT – SEAFLOOR: 89.7 LAT

PROGRAMMED TD: 1788 mMD ROTARY TABLE: 21.5 m LAT WATER DEPTH: 68.2m LAT

MUD DATA PV / YP: Wt: FL: PH: **KC1** Cl: Rmf: Type: Vis: (2400 Hours) FLO-PRO 30/06 1.24 9.7 6.5% 148K 14/30 50 5.0 CaCl2 BRINE 30/06 146K 1.22 9.1

		No.	Make	Type	Size (mm/in.)	Hours	Drilled (m)	Condition
BIT DATA (2400 Hours)	PRESENT LAST	6	НҮС	DSX104	216mm (8½")	3.7	76	1-1-NO-A-E-I-ER-TD

SURVEYS:	<u>MD</u> (m)	INCLINATION	AZIMUTH (T)	CLOSURE (m)	DIRECTION (T)
	1734.4	6.1	252.8	78.2	241.7
	1763.2	5.9	251.7	81.2	242.1
	1783.4	5.7	250.5	83.2	242.4

PREVIOUS 24 HOURS OPERATIONS SUMMARY: (04/07/05)

PREPARE TO PULL RISER AND BOPS. RIG DOWN RISER TENSIONERS AND ASSOCIATED LINES. WAIT ON WEATHER.

00:00 - 06:00 HOURS EST (06/07/05): WAIT ON WEATHER

ANTICIPATED OPERATIONS:

PULL BOP'S. RUN DEBRIS CAP, PULL ANCHORS.



Step	Operation Description	Time (Hrs)		
1	Function blind & 10 ¾"rams. Make up Expandable Sand Screens (ESS), 7 5/8" tubing & Lower Completion Packer Assembly.			
2	RIH ESS on Drill pipe to 1785m & set/test packer and unlatch running tools. POOH running Tools	14		
3	Make up ESS Expansion tool to SABS circulation tool. Make up DC's and HWDP. RIH the Expansion Tool / HWDP / DC's to top of the ESS on drill pipe.	8		
4	Expand ESS (2 passes). POOH Expansion tool above the ESS, cycle open SABS and displace 9 5/8" casing to inhibited calcium chloride brine at 1685m. POOH expansion tools. Laydown HWDP & DC's	10		
5	Scrape 9 5/8" casing and riser & jet BOP's	14		
6	Retrieve bore protector & jet the XT / BOP's in brine.	1		
7	Run upper completion tailpipe and packer and chemical cut sub.	2		
8	RIH upper completion 7" 13Cr80 KSBear tubing to 1500m	9		
9	Make up SSSV and test	2		
10	RIH upper completion 7" 13Cr80 KSBear tubing to 1550m	0.5		
11	Make up TH and terminate SSSV.	4		
12	Install THRT/SSTT onto TH and function test.	4.5		
13	RIH Completion on 9 5/8" New Vam landing string. Install LV. Install	12		
	flowhead and rig up / test welltest lines and slickline PCE.			
14	Land off completion and lock and test TH. Retrieve Isolation sleeve and run TH wireline short protection sleeve on slickline.	6		
15	Displace approx. 200bbl diesel cushion for underbalance.	2		
16	Run standing valve on slickline and set packer. Pressure test completion, retrieve standing valve	6		
17	Perform pre flow checks. Clean up the well.	12		
18	Retrieve TH wireline short protection sleeve from THRT.	2		
19	Inflow test SSSV. Run and set lower plug on slickline in TH.	2		
20	Unlatch THRT from TH. Rig down surface lines, slickline PCE and flowhead.	6		
21	POOH THRT/SSTT laying down 9 5/8" land string and LV.	2		
RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on		6		
	THRT/SSTT. POOH.	Ů		
23	Pull BOP's.	16		
24	Run XT debris cap.			
25	Pull anchors & move to next well	20		

Total (Hrs)	165
Total (Days)	6.9

DAYS FROM SPUD: 22

Santos

A.B.N. 80 007 550 923

WELL PROGRESS REPORT

DATE: 08/07/05 - 06:00 HRS EST | CASINO 5 | REPORT NO: 17

(As at 2400 hours EST, 07/07/05) **DEPTH**

DEPTH: 1806 mMD **PROG:** 0m

(00:00-24:00)

OPERATION: WAITING ON WEATHER

(As at 06:00 hours EST, 08/07/05) **DEPTH**: 1806 mMD **PROGRESS**: 0m

(06:00-06:00 EST)

OPERATION: PREPARING TO RUN CORROSION CAP

AFE COST \$ CUMULATIVE COST \$

CASING SHOE: 244mm (9 5/8") SET AT 1719.8m RIG: OCEAN PATRIOT

PROGRAMMED TD: 1788 mMD ROTARY TABLE: 21.5 m LAT WATER DEPTH: 68.2m LAT

MUD DATA PV / YP: Wt: FL: PH: **KCl** C1: Rmf: Type: Vis: (2400 Hours) FLO-PRO 30/06 1.24 9.7 6.5% 148K 14/30 50 5.0

CaCl2 BRINE 30/06 1.22 - 9.1 - 146K - -

Drilled Type Size (mm/in.) Condition No. Make Hours (m) **BIT DATA PRESENT** (2400 Hours) LAST 6 HYC DSX104 216mm (8½") 3.7 76 1-1-NO-A-E-I-ER-TD

SURVEYS: MD (m) **INCLINATION** AZIMUTH (T) CLOSURE (m) DIRECTION (T) 1734.4 78.2 6.1 252.8 241.7 5.9 251.7 81.2 242.1 1763.2 5.7 1783.4 250.5 83.2 242.4

PREVIOUS 24 HOURS OPERATIONS SUMMARY:

WAIT ON WEATHER.

00:00 - 06:00 HOURS EST (06/07/05):

PULLED BOP'S, LAYED OUT REMAINING RISER

ANTICIPATED OPERATIONS:

RUN XT DEBRIS CAP, PULL ANCHORS.



4.0 COMPLETION OUTLINE AND TIME ESTIMATE

All depths approximate, to be confirmed after TD of the well.

Function blind & 10 %"rams. Make up Expandable Sand Screens (ESS), 7 5/8" tubing & Lower Completion Packer Assembly. RIH ESS on Drill pipe to 1785m & set/test packer and unlatch running tools. POOH running Tools Make up ESS Expansion tool to SABS circulation tool. Make up DC's and HWDP. RIH the Expansion Tool / HWDP / DC's to top of the ESS on drill pipe. Expand ESS (2 passes). POOH Expansion tool above the ESS, cycle open SABS and displace 9 5/8" casing to inhibited calcium chloride brine at 1685m. POOH expansion tools. Laydown HWDP & DC's Scrape 9 5/8" casing and riser & jet BOP's Retrieve bore protector & jet the XT / BOP's in brine. Run upper completion tailpipe and packer and chemical cut sub. RIH upper completion 7" 13Cr80 KSBear tubing to 1500m Make up SSSV and test RIH upper completion 7" 13Cr80 KSBear tubing to 1550m RIH upper completion 7" 13Cr80 KSBear tubing to 1550m RIH upper completion 7" New Vam landing string. Install LV. Install flowhead and rig up / test welltest lines and slickline PCE. Land off completion and lock and test TH. Retrieve Isolation sleeve and run TH wireline short protection sleeve on slickline. Run standing valve on slickline and set packer. Pressure test completion, retrieve standing valve Retrieve TH wireline short protection sleeve from THRT. Inflow test SSSV. Run and set lower plug on slickline PCE and flowhead. Lind yet TH. Rig down surface lines, slickline PCE and flowhead. Lind yet TH. Rig down surface lines, slickline PCE and flowhead. Lind yet TH. Rig down surface lines, slickline PCE and flowhead. Retrieve TH wireline short protection sleeve from THRT. Retrieve TH wireline short protection sleeve plug on slickline in TH. Unlatch THRT/SSTT laying down 9 5/8" land string and LV. RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH. RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH.	Step	Operation Description	Time (Hrs)
tools. POOH running Tools Make up ESS Expansion tool to SABS circulation tool. Make up DC's and HWDP. RIH the Expansion Tool / HWDP / DC's to top of the ESS on drill pipe. Expand ESS (2 passes). POOH Expansion tool above the ESS, cycle open SABS and displace 9 5/8" casing to inhibited calcium chloride brine at 1685m. POOH expansion tools. Laydown HWDP & DC's Scrape 9 5/8" casing and riser & jet BOP's Retrieve bore protector & jet the XT / BOP's in brine. Run upper completion tailpipe and packer and chemical cut sub. RIH upper completion 7" 13Cr80 KSBear tubing to 1500m Make up SSSV and test RIH upper completion 7" 13Cr80 KSBear tubing to 1550m RIH upper completion 7" 13Cr80 KSBear tubing to 1550m RIH upper completion 7" 13Cr80 KSBear tubing to 1550m RIH completion on 9 5/8" New Vam landing string. Install LV. Install flowhead and rig up / test welltest lines and slickline PCE. Land off completion and lock and test TH. Retrieve Isolation sleeve and run TH wireline short protection sleeve on slickline. Displace approx. 200bbl diesel cushion for underbalance. Run standing valve on slickline and set packer. Pressure test completion, retrieve standing valve Perform pre flow checks. Clean up the well. Perform pre flow checks. Clean up the well. Retrieve TH wireline short protection sleeve from THRT. Inflow test SSSV. Run and set lower plug on slickline PCE and flowhead. POOH THRT/SSTT laying down 9 5/8" land string and LV. RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH. RUN XT debris cap.	1		3
and HWDP. RIH the Expansion Tool / HWDP / DC's to top of the ESS on drill pipe. Expand ESS (2 passes). POOH Expansion tool above the ESS, cycle open SABS and displace 9 5/8" casing to inhibited calcium chloride brine at 1685m. POOH expansion tools. Laydown HWDP & DC's Scrape 9 5/8" casing and riser & jet BOP's	2	tools. POOH running Tools	14
4 open SABS and displace 9 5/8" casing to inhibited calcium chloride brine at 1685m. POOH expansion tools. Laydown HWDP & DC's 5 Scrape 9 5/8" casing and riser & jet BOP's 6 Retrieve bore protector & jet the XT / BOP's in brine. 7 Run upper completion tailpipe and packer and chemical cut sub. 2 RIH upper completion 7" 13Cr80 KSBear tubing to 1500m 9 Make up SSSV and test 10 RIH upper completion 7" 13Cr80 KSBear tubing to 1550m 11 Make up TH and terminate SSSV. 4 Install THRT/SSTT onto TH and function test. RIH Completion on 9 5/8" New Vam landing string. Install LV. Install flowhead and rig up / test welltest lines and slickline PCE. 14 Land off completion and lock and test TH. Retrieve Isolation sleeve and run TH wireline short protection sleeve on slickline. 15 Displace approx. 200bbl diesel cushion for underbalance. 2 Run standing valve on slickline and set packer. Pressure test completion, retrieve standing valve 17 Perform pre flow checks. Clean up the well. 18 Retrieve TH wireline short protection sleeve from THRT. 2 Inflow test SSSV. Run and set lower plug on slickline in TH. 2 Unlatch THRT/SSTT laying down 9 5/8" land string and LV. 2 RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH. 2 Pull BOP's. 10 Perior pre plug in the plug on the plug on THRT in the plug on THRT/SSTT. POOH. 11 Retrieve TH wireline short protection sleeve from THRT. 12 Pull BOP's. 13 Pull BOP's.	3	and HWDP. RIH the Expansion Tool / HWDP / DC's to top of the ESS	8
5 Scrape 9 5/8" casing and riser & jet BOP's 6 Retrieve bore protector & jet the XT / BOP's in brine. 7 Run upper completion tailpipe and packer and chemical cut sub. 8 RIH upper completion 7" 13Cr80 KSBear tubing to 1500m 9 Make up SSSV and test 2 10 RIH upper completion 7" 13Cr80 KSBear tubing to 1550m 11 Make up TH and terminate SSSV. 12 Install THRT/SSTT onto TH and function test. 13 RIH Completion on 9 5/8" New Vam landing string. Install LV. Install flowhead and rig up / test welltest lines and slickline PCE. 14 Land off completion and lock and test TH. Retrieve Isolation sleeve and run TH wireline short protection sleeve on slickline. 15 Displace approx. 200bbl diesel cushion for underbalance. 2 Run standing valve on slickline and set packer. Pressure test completion, retrieve standing valve 17 Perform pre flow checks. Clean up the well. 18 Retrieve TH wireline short protection sleeve from THRT. 2 Inflow test SSSV. Run and set lower plug on slickline in TH. 2 Unlatch THRT from TH. Rig down surface lines, slickline PCE and flowhead. 21 POOH THRT/SSTT laying down 9 5/8" land string and LV. 22 RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH. 23 Pull BOP's. 16 Retrieve TH wireline short protection sleeve from THRT. 2 Inflow test SSSV. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH. 23 Pull BOP's. 24 Run XT debris cap.	4	open SABS and displace 9 5/8" casing to inhibited calcium chloride brine	10
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11 Make up TH and terminate SSSV. 4 12 Install THRT/SSTT onto TH and function test. 4.5 13 RIH Completion on 9 5/8" New Vam landing string. Install LV. Install flowhead and rig up / test welltest lines and slickline PCE. 12 14 Land off completion and lock and test TH. Retrieve Isolation sleeve and run TH wireline short protection sleeve on slickline. 6 15 Displace approx. 200bbl diesel cushion for underbalance. 2 16 Run standing valve on slickline and set packer. Pressure test completion, retrieve standing valve 6 17 Perform pre flow checks. Clean up the well. 12 18 Retrieve TH wireline short protection sleeve from THRT. 2 19 Inflow test SSSV. Run and set lower plug on slickline in TH. 2 20 Unlatch THRT from TH. Rig down surface lines, slickline PCE and flowhead. 6 21 POOH THRT/SSTT laying down 9 5/8" land string and LV. 2 22 RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH. 6 23 Pull BOP's. 16 24 Run XT debris cap. 1	9	Make up SSSV and test	2
12 Install THRT/SSTT onto TH and function test. 13 RIH Completion on 9 5/8" New Vam landing string. Install LV. Install flowhead and rig up / test welltest lines and slickline PCE. 14 Land off completion and lock and test TH. Retrieve Isolation sleeve and run TH wireline short protection sleeve on slickline. 15 Displace approx. 200bbl diesel cushion for underbalance. 2 Run standing valve on slickline and set packer. Pressure test completion, retrieve standing valve 17 Perform pre flow checks. Clean up the well. 18 Retrieve TH wireline short protection sleeve from THRT. 2 Inflow test SSSV. Run and set lower plug on slickline in TH. 2 Unlatch THRT from TH. Rig down surface lines, slickline PCE and flowhead. 21 POOH THRT/SSTT laying down 9 5/8" land string and LV. 22 RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH. 23 Pull BOP's. 16 4.5 17 Performence and flowhead. 24 Run XT debris cap.	10	RIH upper completion 7" 13Cr80 KSBear tubing to 1550m	0.5
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15 Displace approx. 200bbl diesel cushion for underbalance. 2 16 Run standing valve on slickline and set packer. Pressure test completion, retrieve standing valve 17 Perform pre flow checks. Clean up the well. 12 18 Retrieve TH wireline short protection sleeve from THRT. 2 19 Inflow test SSSV. Run and set lower plug on slickline in TH. 2 20 Unlatch THRT from TH. Rig down surface lines, slickline PCE and flowhead. 6 21 POOH THRT/SSTT laying down 9 5/8" land string and LV. 2 22 RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH. 6 23 Pull BOP's. 16 24 Run XT debris cap. 1	14		6
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17Perform pre flow checks. Clean up the well.1218Retrieve TH wireline short protection sleeve from THRT.219Inflow test SSSV. Run and set lower plug on slickline in TH.220Unlatch THRT from TH. Rig down surface lines, slickline PCE and flowhead.621POOH THRT/SSTT laying down 9 5/8" land string and LV.222RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH.623Pull BOP's.1624Run XT debris cap.1	16	Run standing valve on slickline and set packer. Pressure test	6
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19 Inflow test SSSV. Run and set lower plug on slickline in TH. 2 20 Unlatch THRT from TH. Rig down surface lines, slickline PCE and flowhead. 6 21 POOH THRT/SSTT laying down 9 5/8" land string and LV. 2 22 RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on THRT/SSTT. POOH. 6 23 Pull BOP's. 16 24 Run XT debris cap. 1	18		2
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23 Pull BOP's. 16 24 Run XT debris cap. 1	22	RIH and jet TH / XT. Run and set / test ITC (c/w upper plug) on	6
24 Run XT debris cap. 1	23		16
			10
	25	Pull anchors & move to next well	20

Total (Hrs)	165
Total (Days)	6.9

SECTION 6: DAILY DRILLING REPORTS



		From:	Chris Wise /	Pat King			
		OIM:	Barry Scott				
Well Data							
Country	Australia	M. Depth	0m	Cur. Hole Size	0mm	AFE Cost	
Field	Casino	TVD	0m	Casing OD	0mm	AFE No.	5746022
Drill Co.	DOGC	Progress	0m	Shoe TVD	0m	Daily Cost	
Rig	Ocean Patriot	Days from spud		F.I.T. / L.O.T.	0sg / 0sg	Cum Cost	
Wtr Dpth(LAT)	70.0m	Days on well	0.17			Planned TD	1788.0m
RT-ASL(LAT)	22.0m	Current Op @ 0600	Running ar	nchors.			
RT-ML	92m	Planned Op	Complete r well.	running and pre-tens	sioning anchors	. Mix mud. Make up	BHA and spud

Moved rig from Casino-4 location.

Operations For Period 0000 Hrs to 2400 Hrs on 14 Jun 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
PS	Р	RM	2000	2400	4.00	0m	Last anchor off bottom at Casino-4DW2 and rig on ticket for Casino-5 at 20:00. Commenced tow to location with Pacific Wrangler on tow bridle.
							24:00 Rig Position: 38 deg 44' 56" S 142 deg 46' 42" E

Operations For Period 0000 Hrs to 0600 Hrs on 15 Jun 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
PS	Р	RM	0000	0200	2.00	0m	Continued rig move from Casino-4DW2 to Casino-5. Pacific Wrangler on tow bridle. Anchor #4 on Far Grip stern roller. (Avg. tow speed 1.3 kn)
PS	Р	АН	0200	0600	4.00	0m	Commenced positioning vessels for anchor handling. (Rig approx. 1 km off location, speed 0.5 kn)
							Positioned Anchor #4 with Far Grip 02:49 - Far Grip released Anchor #4 at anchor point (1.2 km from location @ 040 deg) whilst Pacific Wrangler continued to tow rig towards location 02:50 - Anchor #4 on bottom (Rig approx. 1 km off location, moving at 0.5 kn) 03:37 - Rig on location. Far Grip commenced chasing in chain. 04:19 - PCC back to rig.
							Commenced running Anchor #8 with Far Grip. 04:43 - PCC passed to Far Grip 05:02 - Re-orient anchor

Bulk Stocks						Personnel On Board		
Name	Unit	In	Used	Adjust	Balance	Company	Pax	
Fuel	m3	0	13.8	8.6	369.9	Santos	3	
Drill Water	m3	0	12	11.1	414.7	DOGC	51	
Potable Water	m3	31	31	-1.9	249.8	ESS	8	
Gel	sx	0	0	0	1,685.0	Dowell	2	
Cement	sx	0	0	0	778.0	Geoservices	2	
Barite	sx	0	0	0	1,555.0	Fugro	6	
KCI Brine	bbl	0	0	0	0.0	Cameron	1	
						Fugro - Surveyor	3	
						MO47	3	
						Other	1	
						MI	2	
						Total	82	



HSE Summary			
Events	Date of Last	Days Since	Remarks
Abandon Drill	12 Jun 2005	2 Days	Abandon Drill
BOP Test	05 Jun 2005	9 Days	BOP Test
Environmental Incident	02 May 2005	43 Days	None reported since commencement of campaign.
Fire Drill	12 Jun 2005	2 Days	Fire Drill
First Aid	04 May 2005	41 Days	Person struck on nose with metal bar
Lost Time Incident	02 May 2005	43 Days	None reported since commencement of campaign.
Man Overboard Drill	02 May 2005	43 Days	None undertaken since commencement of campaign.
Near Miss	02 May 2005	43 Days	None reported since commencement of campaign.
Safety Meeting	12 Jun 2005	2 Days	Weekly Safety Meeting
Stop Cards	14 Jun 2005	0 Days	6 Stop Cards

Marine									
Weather ch	eck on 14 Jun	2005 at 2400	0					Rig Support	
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (mt)
18.5km	46km/h	290deg	1009.00bar	12.0C°	2.0m	290deg	0m/sec	1	0
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather	Comments	2	0
0.6deg	0.6deg	0m	2.0m	270deg	2m/sec	CI	ear	- 3 - 4	0 0
Rig Dir.	Ris. Tension	VDL	1	Comments				5	0
0deg	0mt	185.07mt						6	0
								7	0
								8	0

Boats	Arrived (date/time)	Departed (date/time)	Status	В	ulks	
Far Grip			Ocean Patriot	Item	Unit	Quantity
Pacific Wrangler			Ocean Patriot	ltem	Unit	Quantity



		From:	Chris Wise /	Pat King			
		OIM:	Barry Scott				
Well Data							
Country	Australia	M. Depth	0m	Cur. Hole Size	0mm	AFE Cost	
Field	Casino	TVD	0m	Casing OD	0mm	AFE No.	5746022
Drill Co.	DOGC	Progress	0m	Shoe TVD	0m	Daily Cost	
Rig	Ocean Patriot	Days from spud		F.I.T. / L.O.T.	0sg / 0sg	Cum Cost	
Wtr Dpth(LAT)	70.0m	Days on well	1.17			Planned TD	1788.0m
RT-ASL(LAT)	22.0m	Current Op @ 0600	Attempting	to tension anchor #	1.		
RT-ML	92m	Planned Op		chor #1. Attach and Run & cement cond		Pretension anchors	s #2, #6, #1 & #5.

Moved to Casino-5 location. Commenced running anchors and pre-tensioning.

Operations For Period 0000 Hrs to 2400 Hrs on 15 Jun 2005

Phse	Cls (RC)	Op	From	То	Hrs	Depth	Activity Description
PS	Р	RM	0000	0200	2.00	0m	Continued rig move from Casino-4DW2 to Casino-5. Pacific Wrangler on tow bridle. Anchor #4 on Far Grip stern roller. (Avg. tow speed 1.3 kn)
PS	Р	AH	0200	1100	9.00	0m	Commenced positioning vessels for anchor handling. (Rig approx. 1 km off location, speed 0.5 kn)
							Positioned Anchor #4 with Far Grip 02:49 - Far Grip released Anchor #4 at anchor point (1.2 km from location @ 040 deg) whilst Pacific Wrangler continued to tow rig towards location 02:50 - Anchor #4 on bottom (Rig approx. 1 km off location, moving at 0.5 kn) 03:37 - Rig on location. Far Grip commenced chasing in chain. 04:19 - PCC back to rig.
							Ran Anchor #8 with Far Grip. 04:43 - PCC passed to Far Grip 05:02 - Attempt top re-orient anchor. No go. 05:25 - Far grip unable to re-orient. Rig hauled in chain to 50m. 06:06 - Anchor orentation good 06:39 - Anchor on bottom 07:28 - PCC back to rig
							Ran Anchor #5 with Far Grip 07:38 - PCC passed to Far Grip 08:14 - Anchor on bottom 08:54 - PCC back to rig
							Ran Anchor #1 with Far Grip 09:08 - PCC passed to Far Grip 09:42 - Anchor on bottom 10:56 - PCC back to rig. Far Grip to Portland.
PS	Р	AH	1100	1630	5.50	0m	10:39 - Tow bridle released from Pacific Wrangler. Ran secondary anchors.
							Ran Anchor #3 with Pacific Wrangler 12:32 - PCC passed to Pacific Wrangler 13:22 - Anchor on bottom 13:55 - PCC back to rig
							Ran Anchor #7 with Pacific Wrangler 14:06 - PCC passed to Pacific Wrangler 14:51 - Anchor on bottom 15:19 - PCC back to rig
							Ran Anchor #6 with Pacific Wrangler 15:28 - PCC passed to Pacific Wrangler 16:04 - Anchor on bottom 16:34 - PCC back to rig
PS	Р	AH	1630	2000	3.50	0m	Commenced pre-tensioning anchors 16:36 - Attempted to cross tension Anchors #4 and #8. Anchor #4 not holding.
PS	Р	АН	2000	2115	1.25	0m	20:00 - Anchor #7 tensioned to 200 t. Anchor #3 tensioned to 180 t. Re-ran Anchor #4 with Pacific Wrangler 20:32 - PCC passed to Pacific Wrangler 21:04 - Anchor off bottom 21:14 - Anchor on bottom (anchor winch power failure)
PS	TP	АН	2115	2245	1.50	0m	Restored power to anchor winch.





Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
PS	(RE) P	АН	2245	2400	1.25	0m	Continued pre-tensioning anchors. 23:50 - Anchor #4 tensioned to 200 t. Anchor #8 tensioned to 180 t. [Daily Offline Operations: Completed changing out Elmago Brake, prepared PGB trolley and placed PGB onto same, slipped & cut drilling line, made up 914 mm (36") / 660 mm (26") BHA, commenced picking up and racking back 1600 m of 127 mm (5") drill pipe, commenced mixing spud mud]

Operations For Period 0000 Hrs to 0600 Hrs on 16 Jun 2005

Phse	Cls (RC)	Op	From	То	Hrs	Depth	Activity Description
PS	Р	АН	0000	0600	6.00	Om	Re-ran Anchor #1 with Pacific Wrangler. 00:23 - PCC passed to Pacific Wrangler 00:42 - Anchor off bottom 01:17 - Anchor on bottom 01:40 - PCC back to rig Attempted to cross-tension Anchors #1 and #5. 03:23 Anchor #1 slipped approx. 106 m. 06:00 Rig approx. 20 m off location. Anchors #1 & #2 not providing any positioning support against prevaling seas / weather. Anchor #2 on location - awaiting installation. [Daily Offline Operations: Completed picking up and racking back ~1600 m of 127 mm (5") drill pipe, continued mixing spud mud, serviced TDS block & dolly rollers, commenced RIH spud BHA to hang off in blocks until spud]

Bulk Stocks					Personnel On Board				
Name	Unit	In	Used	Adjust	Balance	Company	Pax		
Fuel	m3	0	13.5	0	356.4	Santos	3		
Drill Water	m3	0	198.6	0	216.1	DOGC	50		
Potable Water	m3	30	21.7	0	258.1	ESS	8		
Gel	sx	0	0	0	1,685.0	Dowell	2		
Cement	sx	927	0	0	1,705.0	Geoservices	2		
Barite	sx	0	0	0	1,555.0	Fugro	6		
KCI Brine	bbl	0	0	0	0.0	Cameron	1		
						Fugro - Surveyor	3		
						Other	1		
						MI	2		
						Total	78		

HSE Summary			
Events	Date of Last	Days Since	Remarks
Abandon Drill	12 Jun 2005	3 Days	Abandon Drill
BOP Test	05 Jun 2005	10 Days	BOP Test
Environmental Incident	02 May 2005	44 Days	None reported since commencement of campaign.
Fire Drill	12 Jun 2005	3 Days	Fire Drill
First Aid	04 May 2005	42 Days	Person struck on nose with metal bar
Lost Time Incident	02 May 2005	44 Days	None reported since commencement of campaign.
Man Overboard Drill	02 May 2005	44 Days	None undertaken since commencement of campaign.
Near Miss	02 May 2005	44 Days	None reported since commencement of campaign.
Safety Meeting	12 Jun 2005	3 Days	Weekly Safety Meeting
Stop Cards	15 Jun 2005	0 Days	10 Stop Cards



DRILLING MORNING REPORT # 2 Casino-5 (15 Jun 2005)

Marine									
Weather ch	eck on 15 Jun	2005 at 240	0					Rig Support	
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (mt)
18.5km	43km/h	247deg	1005.00bar	11.0C°	0.5m	247deg	0m/sec	1	0
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather	Comments	2	0
0.6deg	0.6deg	0m	3.0m	225deg	2m/sec	CI	ear	3 4	0
Rig Dir.	Ris. Tension	VDL		Comments				5	0
0deg	0mt	209.74mt						6	0
								7	0
								8	0

Boats	Arrived (d	date/time)	Departed (date/time)	Status		Bulks	
Far Grip				Portland	Item	Unit	Quantity
					Fuel	m3	336
					Drill Water	m3	730
					Potable Water	m3	382
					Gel	t	43
					Cement	t	0
					Barite	t	81
					KCI Brine	bbl	0
Pacific				Ocean Patriot	Item	Unit	Quantity
Wrangler					Fuel	m3	460
					Drill Water	m3	287
					Potable Water	m3	208
					Gel	t	37
					Cement	t	42
					Barite	t	121
					KCI Brine	bbl	950
Helicopter	Movement						
Flight #	Time		Destination		Comment		Pax
1	11:23	Ocean Patriot					0
1	11:32	Essendon					4



		From:	Chris Wise /	Pat King			
		OIM:	Barry Scott				
Well Data							
Country	Australia	M. Depth	133.0m	Cur. Hole Size	914mm	AFE Cost	
Field	Casino	TVD	133.0m	Casing OD	0mm	AFE No.	5746022
Drill Co.	DOGC	Progress	43.3m	Shoe TVD	0m	Daily Cost	
Rig	Ocean Patriot	Days from spud		F.I.T. / L.O.T.	0sg / 0sg	Cum Cost	
Wtr Dpth(LAT)	68.2m	Days on well	2.17			Planned TD	1788.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600	Running 76	62 mm (30") conduc	tor casing into F	GB on 127 mm ((5") drill pipe.
RT-ML	89.7m	Planned Op	Deep Sea	m (30") conductor c Express cement hea 2") BHA. RIH and co	ad, 476 mm (18-	·3/4") wellhead ru	inning tool and 445

Completed running and tensioning anchors. Spudded well. Drilled to 133 m (section TD)

Operations For Period 0000 Hrs to 2400 Hrs on 16 Jun 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
PS	P	АН	0000	1815	18.25	Om	Re-ran Anchor #1 with Pacific Wrangler. 00:23 - PCC passed to Pacific Wrangler 00:42 - Anchor off bottom 01:17 - Anchor on bottom 01:40 - PCC back to rig Attempted to cross-tension Anchors #1 and #5. 03:23 - Anchor #1 slipped approx. 106 m
							05:50 - Anchor #1 slipped approx. 304m
							06:00 - Rig approx. 20 m off location. Anchors #1 & #2 not providing any positioning support against prevaling seas / weather. Anchor #2 on location - awaiting installation.
							Attached and ran anchor #2 07:19 - Anchor #2 passed to Pacific Wrangler, commenced preparing to attach and run 07:47 - New PCC and jewellery passed to Pacific Wrangler 10:52 - Chain attached to anchor 12:35 - Anchor #2 on bottom
							13:10 - PCC back to rig Re-ran anchor #1 with Pacific Wrangler 13:58 - Anchor re-positioned 14:20 - PCC back to rig
							Attempted to tension anchor #1 15:55 - Anchor #1 to 180 t (slipping);
							Tensioned anchors #2, #5 and #6 16:25 - Anchor #2 to 185 t 16:50 - Anchor #5 to 183 t 17:15 - Anchor #6 to 185 t
							Repositioned rig 17:20 - Commenced repositioning rig 18:10 - Rig in position for spud Preliminary rig position: 38 deg 47' 43.70" S 142 deg 44' 44.55" E (1.4 m @ 11.2 deg from design location) Rig Heading - 250.67 deg.
							[Offline Operations: Completed picking up and racking back ~1600 m of 127 mm (5") drill pipe, continued mixing spud mud, serviced TDS block & dolly rollers, RIH spud BHA and hung off in blocks, cleaned sand traps and services shakers]
PS	Р	TI	1815	1900	0.75	0m	Ran in hole with 914 mm (36") BHA. Tagged seabed. De-ballasted 0.3 m to drilling draft. Re-tagged seabed at 89.7 mRT. (Water depth 68.2 m. RT 21.5 m). ROV positioned sonar buoys and marked hole location.
СН	P	DA	1900	1945	0.75	100.0m	Spudded well. Unable to jet in bit due to hard seabed. Drilled ahead 914 mm (36") hole from 89.7 m to 100 m, pumping 15.9 m3 (100 bbl) PHG sweep @ 94 m and 100 m and backreaming first single. Survey @ 100m - 1 deg. [Avg. parameters - 800 gal/min, 50 rpm, 0-2 klb WOB]
СН	P	DA	1945	2330	3.75	133.0m	Drilled ahead 100 m to 110m. Survey @ 110 m - 1.5 deg. Drilled and reamed 110 m to 133 m, with increased RPM and reduced WOB. Pumped 8 m3 (50 bbl) PHG sweeps each single, spotted 12 m3 (75 bbl) PHG sweep around BHA and reamed stand prior to connection. [Avg Parameters - 1200 gal/min, 70 rpm, 0-5 klb WOB]



DRILLING MORNING REPORT #3 Casino-5 (16 Jun 2005)

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
СН	Р	CMD	2330	2400	0.50	133.0m	Pumped 15.9 m3 (100 bbl) PHG sweep at TD. Reamed last stand twice prior to survey. Allowed gel to settle at seafloor prior to confirming depth of BHA with ROV. Survey @ 133m - 1 deg.

Operations For Period 0000 Hrs to 0600 Hrs on 17 Jun 2005

Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
Р	CMD	0000	0045	0.75	133.0m	Confirmed BHA on depth with ROV once seabed settled. Worked pipe whilst displacing hole to PHG.
Р	TO	0045	0200	1.25	133.0m	POH with 914 mm (36") BHA from 133m to surface and racked back same.
Р	RRC	0200	0300	1.00	133.0m	Held pre-job safety meeting - Running casing. Rigged up to run 762 mm (30") conductor casing. Skidded PGB into moonpool.
Р	CRN	0300	0400	1.00	133.0m	Picked up 762 mm (30") conductor casing and made up same and RIH.
						508 mm (20") x 762 mm (30") shoe joint 762 mm (30") Intermediate Joint 762 mm (30") X/O Joint
P	CRN	0400	0445	0.75	133.0m	Stripped o-ring from 762 mm (30") X/O joint Lynx HT pin due to rig movement. Replaced o-ring and filled casing with seawater to stabilise. Made up 762 mm (30") wellhead housing c/w extension joint to X/O joint.
Р	CRN	0445	0500	0.25	133.0m	Continued to RIH with 762 mm (30") conductor casing and hung off in rotary table.
Р	CRN	0500	0600	1.00	133.0m	Ran cement stinger (4 joints 127 mm/5" drill pipe) inside 762 mm (30") casing on 127 mm (5") drill pipe. Made up running tool to 762 mm (30") wellhead.
	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	P CRN P CRN P CRN	P CMD 0000 P TO 0045 P RRC 0200 P CRN 0300 P CRN 0400 P CRN 0445	P CRN 0445 0500 P CRD 0000 0045 P TO 0045 0200 P RRC 0200 0300 P CRN 0300 0400	P CMD 0000 0045 0.75 P TO 0045 0200 1.25 P RRC 0200 0300 1.00 P CRN 0300 0400 1.00 P CRN 0400 0445 0.75 P CRN 0445 0500 0.25	P CMD 0000 0045 0.75 133.0m P TO 0045 0200 1.25 133.0m P RRC 0200 0300 1.00 133.0m P CRN 0300 0400 1.00 133.0m P CRN 0400 0445 0.75 133.0m P CRN 0445 0500 0.25 133.0m

WBM Data									
Mud Type:	PHG	API FL:	13cm ³ /30m	CI:	1050	Solids:	2.4	Viscosity:	0sec/L
Sample-From:	Pit 3	Filter-Cake:	1mm	K+C*1000:	0%	H2O:	98%	PV: YP:	0.011Pa/s 0.240MPa
Time:	21:15	HTHP-FL:	0cm ³ /30m	Hard/Ca:	40	Oil:	0%	Gels 10s: Gels 10m:	0.254
Weight:	1.04sg	HTHP-Cake:	0mm	MBT:	28	Sand:		Fann 003:	0.259
Temp:	13.0C°			PM:	0.55	pH:	9.5	Fann 006:	49
						'		Fann 100:	53
				PF:	0.35	PHPA:	0ppb	Fann 200:	58
								Fann 300:	61

Bit # 1RR				Wear	I	01	D	L	В	G	02	R
Size ("):	660mm	IADC#	115	N	ozzles	Drill	led over la	ast 24 hrs		Calculated	l over B	it Run
Mfr:	SMITH	WOB(avg)	0.09mt	No.	Size	Progre	ess	43.3m	Cum.	Progress		43.3m
Type:	Rock	RPM(avg)	70	2	22/32nd	On Bo	ttom Hrs	3.10	Cum.	On Btm H	rs	3.10h
Serial No.:	MR4109	F.Rate	3785lpm	2	20/32nd	IADC	Drill Hrs	4.80	Cum I	ADC Drill	Hrs	4.80h
Bit Model	DSJC	SPP	6895kPa			Total F	Revs	(Cum -	Total Revs		0
Depth In	89.7m	TFA	1.356			ROP(a	avg)	13.97 m/h	r ROP(avg)		13.97 m/hr
Depth Out	133.0m											
Run Comment		Used Bit. 3	6" hole ope	ner abo	ve bit							

			<u>'</u>			
BHA # 1						
Weight(Wet)	0mt	Length	133.0m	Torque(max)	0Nm	D.C. (1) Ann Velocity
Wt Below Jar(Wet)	0mt	String	0mt	Torque(Off.Btm)	0Nm	D.C. (2) Ann Velocity
		Pick-Up	0mt	Torque(On.Btm)	0Nm	H.W.D.P. Ann Velocity
		Slack-Off	0mt			D.P. Ann Velocity
BHA Run Description			n (9-1/2") NMDC, 44			/2") Anderdrift, 445 mm (17-1/2") (9-1/2") DC, X/O, 5 x 203 mm (8")



DRILLING MORNING REPORT #3 Casino-5 (16 Jun 2005)

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.64m	660mm	0mm	MR4109	Smith DSJC c/w 2 x 20, 2 x 22 Nozzles
Hole Opener	2.43m	914mm	0mm	46450	4 x 24 Nozzles
Float Sub	1.02m	241mm	0mm	186-0028	Ported Float
9.5in Anderdrift	3.11m	243mm	0mm	ADB993	
Stab	2.10m	445mm	0mm	A229	
NMDC	9.04m	241mm	0mm	6613	
Stab	2.18m	445mm	0mm	47618	
Drill Collar	18.34m	241mm	0mm	Various	
X/O	1.09m	240mm	0mm	SANTOS	
Drill Collar	45.33m	203mm	0mm	Various	
X/O	1.09m	203mm	0mm	SANTOS	
HWDP	46.63m	162mm	0mm	Various	

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Fuel	m3	0	9.2	4	351.2	Santos	3
Drill Water	m3	10	54.3	0	171.8	DOGC	50
Potable Water	m3	9.2	8.3	0	259.0	ESS	8
Gel	sx	0	449	0	1,236.0	Dowell	2
Cement	sx	0	0	0	1,705.0	Geoservices	2
Barite	sx	0	0	0	1,555.0	Fugro	6
KCI Brine	bbl	0	0	0	0.0	Cameron	1
						Fugro - Surveyor	1
						MI	2
						Weatherford	4
						Sperry-Sun	2
						Total	81

HSE Summary			
Events	Date of Last	Days Since	Remarks
Abandon Drill	12 Jun 2005	4 Days	Abandon Drill
BOP Test	05 Jun 2005	11 Days	BOP Test
Environmental Incident	02 May 2005	45 Days	None reported since commencement of campaign.
Fire Drill	12 Jun 2005	4 Days	Fire Drill
First Aid	04 May 2005	43 Days	Person struck on nose with metal bar
Lost Time Incident	02 May 2005	45 Days	None reported since commencement of campaign.
Man Overboard Drill	02 May 2005	45 Days	None undertaken since commencement of campaign.
Near Miss	02 May 2005	45 Days	None reported since commencement of campaign.
Safety Meeting	12 Jun 2005	4 Days	Weekly Safety Meeting
Stop Cards	16 Jun 2005	0 Days	9 Stop Cards

Marine									
Weather ch	eck on 16 Jun	2005 at 240	0					Rig Support	
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (mt)
18.5km	46km/h	270deg	1014.00bar	12.0C°	1.5m	270deg	0m/sec	1	10.61
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather	Comments	2	13.20
1.0deg	0.8deg	0m	3.5m	270deg	2m/sec	CI	ear	- 3 4	7.12 8.89
Rig Dir.	Ris. Tension	VDL		Comments	·			5	9.21
251.0deg	0mt	210.92mt						6	9.62
	3	=:::0=::::						7	13.02
								8	12.20



DRILLING MORNING REPORT #3 Casino-5 (16 Jun 2005)

Boats	Arrived ((date/time)	Departed (date/time)	Status		Bulks	
Far Grip				Ocean Patriot	Item	Unit	Quantity
					Fuel	m3	318
					Drill Water	m3	655
					Potable Water	m3	370
					Gel	t	43
					Cement	t	40
					Barite	t	81
					KCI Brine	bbl	0
Pacific				Portland	Item	Unit	Quantity
Wrangler					Fuel	m3	449
					Drill Water	m3	287
					Potable Water	m3	205
					Gel	t	37
					Cement	t	42
					Barite	t	121
					KCI Brine	bbl	950
Helicopte	r Movement						
Flight #	Time		Destination		Comment		Pax
1	10:42	Ocean Patriot					8
1	10:50	Essendon					5



		From :	Chris Wise /	Pat King			
		OIM:	Barry Scott				
Well Data							
Country	Australia	M. Depth	133.0m	Cur. Hole Size	914mm	AFE Cost	
Field	Casino	TVD	133.0m	Casing OD	762mm	AFE No.	5746022
Drill Co.	DOGC	Progress	0m	Shoe TVD	132.0m	Daily Cost	
Rig	Ocean Patriot	Days from spud		F.I.T. / L.O.T.	0sg / 0sg	Cum Cost	
Wtr Dpth(LAT)	68.2m	Days on well	3.17			Planned TD	1788.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600	Drilling ahe	ead 445 mm (17-1/2	") hole at 137 m		
RT-ML	89.7m	Planned Op	Drill ahead	445 mm (17-1/2") h	ole to 660 m (S	ection TD)	

POH with 914 mm (36") BHA. Ran 762 mm (30") conductor casing. Cement conductor casing. POH running tool and cement stinger. Performed top up cement job. Made up DSE cement head and 476 mm (18-3/4") wellhead housing. Commenced laying out 914 mm (36") BHA.

Operations For Period 0000 Hrs to 2400 Hrs on 17 Jun 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description			
СН	Р	CMD	0000	0045	0.75	133.0m	Confirmed BHA on depth with ROV once seabed settled. Worked pipe whilst displacing hole to PHG.			
CH	Р	TO	0045	0200	1.25	133.0m	POH with 914 mm (36") BHA from 133m to surface and racked back same.			
СН	Р	RRC	0200	0300	1.00	133.0m	Held pre-job safety meeting - Running casing. Rigged up to run 762 mm (30") conductor casing. Skidded PGB into moonpool.			
СН	Р	CRN	0300	0400	1.00	133.0m	Picked up 762 mm (30") conductor casing and made up same and RIH.			
							508 mm (20") x 762 mm (30") shoe joint 762 mm (30") Intermediate Joint 762 mm (30") X/O Joint			
CH	TP (CWR)	CRN	0400	0445	0.75	133.0m	Stripped o-ring from 762 mm (30") X/O joint Lynx HT pin due to rig movement. Replaced o-ring and filled casing with seawater to stabilise. Made up 762 mm (30") wellhead housing c/w extension joint to X/O joint.			
CH	Р	CRN	0445	0500	0.25	133.0m	Continued to RIH with 762 mm (30") conductor casing and hung off in rotary table.			
CH	Р	CRN	0500	0630	1.50	133.0m	Ran cement stinger (4 joints 127 mm/5" drill pipe) inside 762 mm (30") casing on 127 mm (5") drill pipe. Made up running tool to 762 mm (30") wellhead.			
СН	Р	CRN	0630	0730	1.00	133.0m	Latched 762 mm (30") housing into PGB. Installed guideline tuggers to guide posts. Continued RIH with 762 mm (30") conductor casing.			
CH	Р	CRN	0730	0830	1.00	133.0m	Tagged bottom at 132 m. Attempted to wash down casing to 133 m. No go.			
СН	TP (CWR)	CRN	0830	0900	0.50	133.0m	Investigated ball valves on Cameron 762 mm (30") running tool wth ROV. Valves passing.			
CH	TP (CWR)	CRN	0900	1000	1.00	133.0m	POH with 762 mm (30") casing to moonpool. Replaced ball valves on running tool with bull plugs.			
СН	TP (CWR)	CRN	1000	1030	0.50	133.0m	RIH with 762 mm (30") casing to 132 m.			
СН	Р	CRN	1030	1200	1.50	133.0m	Circulated and reciprocated casing whilst repositioning rig to obtain correct PGB bullseye. Unable to wash deeper than initial tag. Final Bullseye Reading - 0.5 deg. PGB heading - 242 deg.			
СН	Р	CMC	1200	1330	1.50	133.0m	Cemented 762 mm (30") x 508 mm (20") conductor casing. (31.6 m3/199 bbl, 1.9 sg/15.8 ppg, Class G, 1.5% CaCl2)			
							12:00 Rigged up cement lines 12:13 Pumped 1.6 m3 (10 bbl) seawater with dye. 12:20 Pressure tested lines to 6,900 kPa (1000 psi) 12:28 Pumped 1.6 m3 (10 bbl) seawater with dye 12:35 Mixed and pumped 31.6 m3 (199 bbl) slurry (15.5 - 15.9 ppg) 13:22 Displaced with 2.2 m3 (13.5 bbl) seawater 13:27 Bled back 0.2 m3 (1.5 bbl)			
							PGB 0.5 deg Stbd Fwd			
СН	Р	WOC	1330	1530	2.00	133.0m	WOC. Prepared 445 mm (17-1/2") BHA. Rig Service. PGB bullseye 0.5 deg Stbd Fwd.			
CH	P	TO	1530	1600	0.50	133.0m	Backed out of conductor housing running tool. POH with landing string.			
СН	Р	HT	1600	1700	1.00	133.0m	Serviced conductor housing running tool and laid out same.			
CH	P		1700	1900	2.00	133.0m	Made up 73 mm (2-7/8") top-up cement stinger. Installed guide ropes and RIH stinger on 127 mm (5") DP to PGB. ROV assisted stab into PGB funnel. RIH to 3 m below wellhead. Cementing stinger bent whilst RIH. Confirmed stinger not kinked with ROV prior to pumping top-up cement job.			
CH	Р	CMC	1900	2100	2.00	133.0m	Rigged up cementing hose to cement stand. Pumped top up job.			
							19:56 Pumped 5 bbl seawater 20:03 Pressure tested surface lines to 6900 kPa (1000 psi) 20:12 Pumped 5 bbl seawater			



Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
							20:22 Mixed & pumped 46 bbl cement slurry 20:47 Displaced with 8 bbl seawater
СН	Р	CMC	2100	2130	0.50	133.0m	Rigged down cementing hose and racked back cement stand. POH with 127 mm (5") drillpipe and 73 mm (2-7/8") cementing stinger, removing guide ropes from cementing stinger in moonpool. [Anchor #1 test tensioned to 200 t]
СН	TP (CJ)	PLD	2130	2200	0.50	133.0m	Cut off bent single of 73 mm (2-7/8") cementing stinger and lay out.
СН	Р	HT	2200	2330	1.50	133.0m	Cleared rig floor of excess equipment. Picked up Cameron 476 mm (18-3/4") housing running tool, made up and racked back. Picked up Dowell Deep Sea Express cement head, made up and racked back. Made up Dowell plug launcher adaptor and laid out.
СН	Р	HBHA	2330	2400	0.50	133.0m	Commenced breaking out and laying down 914 mm (36") BHA.

Operations For Period 0000 Hrs to 0600 Hrs on 18 Jun 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
СН	Р	НВНА	0000	0100	1.00	133.0m	Continued to lay down and break out 914 mm (36") BHA.
СН	Р	TI	0100	0300	2.00	133.0m	Made up 445 mm (17-1/2") BHA and RIH. Installed guide ropes in moonpool.
CH	Р	TI	0300	0345	0.75	133.0m	Stabbed 445 mm (17-1/2") BHA into wellhead. Top of wellhead tagged at 86.35 mRT. Continued to RIH. Tagged top of cement at 128.67 m.
СН	Р	DFS	0345	0415	0.50	133.0m	Drilled out cement and casing shoe (Shoe Depth 132 m). Pumped 8 m3 (50 bbl) PHG sweep at 130 m. [Avg parameters: 800 gal/min, 60 rpm, 2-5 WOB]
СН	TP (OTH)	DFS	0445	0530	0.75	133.0m	Stopped drilling to investigate guidepost release. Informed by ROV that guidepost #3 had released. ROV re-stabbed guidepost and re-installed pin. ROV confirmed guidewire free of BHA prior to retensioning. Checked PGB bullseye - 0.5 deg.
PH	Р	DA	0530	0600	0.50	137.0m	Drilled ahead 445 mm (17-1/2") hole from 133 m to 137 m. Pumped 8 m3 (50 bbl) sweep and worked BHA through casing shoe.

WBM Data									
Mud Type:	PHG	API FL:	14cm ³ /30m	CI:	1000	Solids:	3.1	Viscosity:	0sec/L
Sample-From:	Pit 3	Filter-Cake:	1mm	K+C*1000:	0%	H2O:	98%	PV: YP:	0.010Pa/s 0.240MPa
Time:	20:00	HTHP-FL:	0cm ³ /30m	Hard/Ca:	40	Oil:	0%	Gels 10s: Gels 10m:	0.244 0.254
Weight:	1.04sg	HTHP-Cake:	0mm	MBT:	28	Sand:		Fann 003:	47
Temp:	15.0C°			PM:	0.5	pH:	9.5	Fann 006:	48
						'		Fann 100:	51
				PF:	0.35	PHPA:	0ppb	Fann 200:	56
								Fann 300:	60
								Fann 600:	70

Bit # 1RR				Wear	. 1	O1	D	L	В	G	O2	R
Size ("):	660mm	IADC#	115	ı	Nozzles	Drill	led over la	ast 24 hrs		Calculated	d over B	it Run
Mfr:	SMITH	WOB(avg)	0.09mt	No.	Size	Progre	ess	0m	Cum.	Progress		43.3m
Type:	Rock	RPM(avg)	70	2	20/32nd"	On Bo	ttom Hrs	Oh	Cum.	On Btm H	rs	3.10h
Serial No.:	MR4109	F.Rate	3785lpm	2	22/32nd"	IADC	Drill Hrs	Oh	Cum	IADC Drill	Hrs	4.80h
Bit Model	DSJC	SPP	6895kPa			Total F	Revs	(Cum	Total Revs	;	0
Depth In	89.7m	TFA	1.356			ROP(a	avg)	N/A	ROP(avg)		13.97 m/hr
Depth Out	133.0m											
Run Comment		Used Bit. 3	6" hole ope	ener abo	ove bit	'						

BHA # 1						
Weight(Wet)	0mt	Length	133.0m	Torque(max)	0Nm	D.C. (1) Ann Velocity
Wt Below Jar(Wet)	0mt	String	0mt	Torque(Off.Btm)	0Nm	D.C. (2) Ann Velocity
		Pick-Up	0mt	Torque(On.Btm)	0Nm	H.W.D.P. Ann Velocity
		Slack-Off	0mt			D.P. Ann Velocity
BHA Run Description			m (9-1/2") NMDC, 44			/2") Anderdrift, 445 mm (17-1/2") (9-1/2") DC, X/O, 5 x 203 mm (8")

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Equipment	Length	OD	ID	Serial #	Comment
Bit	0.64m	660mm	0mm	MR4109	Smith DSJC c/w 2 x 20, 2 x 22 Nozzles
Hole Opener	2.43m	914mm	0mm	46450	4 x 24 Nozzles
Float Sub	1.02m	241mm	0mm	186-0028	Ported Float
9.5in Anderdrift	3.11m	243mm	0mm	ADB993	
Stab	2.10m	241mm	0mm	A229	
NMDC	9.04m	241mm	0mm	6613	
Stab	2.18m	241mm	0mm	47618	
Drill Collar	18.34m	241mm	0mm	Various	
X/O	1.09m	240mm	0mm	SANTOS	
Drill Collar	45.33m	203mm	0mm	Various	
X/O	1.09m	203mm	0mm	SANTOS	
HWDP	46.63m	162mm	0mm	Various	

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Fuel	m3	0	16.2	0	335.0	Santos	3
Drill Water	m3	720	272.6	0	619.2	DOGC	51
Potable Water	m3	23.3	22.2	0	260.1	ESS	8
Gel	sx	720	136	0	1,820.0	Dowell	2
Cement	sx	0	1164	0	541.0	Geoservices	2
Barite	sx	0	0	0	1,555.0	Fugro	6
KCI Brine	bbl	0	0	0	0.0	Cameron	1
						Fugro - Surveyor	1
						MI	2
						Weatherford	4
						Sperry-Sun	3
						Total	83

Casin	g			
OD	L.O.T. / F.I.T.	Csg Shoe (MD/TVD)	Cementing	
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2	

HSE Summary			
Events	Date of Last	Days Since	Remarks
Abandon Drill	12 Jun 2005	5 Days	Abandon Drill
BOP Test	05 Jun 2005	12 Days	BOP Test
Environmental Incident	02 May 2005	46 Days	None reported since commencement of campaign.
Fire Drill	12 Jun 2005	5 Days	Fire Drill
First Aid	04 May 2005	44 Days	Person struck on nose with metal bar
Lost Time Incident	02 May 2005	46 Days	None reported since commencement of campaign.
Man Overboard Drill	02 May 2005	46 Days	None undertaken since commencement of campaign.
Near Miss	02 May 2005	46 Days	None reported since commencement of campaign.
Safety Meeting	12 Jun 2005	5 Days	Weekly Safety Meeting
Stop Cards	17 Jun 2005	0 Days	6 Stop Cards

Marine									
Weather ch	eck on 17 Jun	2005 at 240	0					Rig Support	
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (mt)
14.8km	28km/h	270deg	1014.00bar	12.0C°	0.5m	270deg	0m/sec	1	12.11
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather	Comments	2	13.20
0.5deg	0.5deg	0m	2.0m	225deg	2m/sec	CI	ear	- 3 4	7.80 11.61
Rig Dir.	Ris. Tension	VDL		Comments				5	11.52
251.0deg	0mt	206.84mt						6	11.52
		200.0						7	14.29
								8	11.70



DRILLING MORNING REPORT # 4 Casino-5 (17 Jun 2005)

Boats	Arrived (dat	e/time)	Departed (date/time)	Status		Bulks	
Far Grip				Ocean Patriot	Item	Unit	Quantity
					Fuel	m3	303
					Drill Water	m3	0
					Potable Water	m3	362
					Gel	t	0
					Cement	t	40
					Barite	t	81
					KCI Brine	bbl	1000
Pacific				Ocean Patriot	Item	Unit	Quantity
Wrangler					Fuel	m3	533.8
					Drill Water	m3	323
					Potable Water	m3	358
					Gel	t	37
					Cement	t	42
					Barite	t	121
					KCI Brine	bbl	950
Helicopte	r Movement						
Flight #	Time		Destination		Comment		Pax
1	10:04 O	cean Patriot					12
1	10:15 Es	ssendon					10



		From:	Chris Wise /	Pat King			
		OIM:	Barry Scott				
Well Data							
Country	Australia	M. Depth	665.0m	Cur. Hole Size	445mm	AFE Cost	
Field	Casino	TVD	665.0m	Casing OD	762mm	AFE No.	5746022
Drill Co.	DOGC	Progress	532.0m	Shoe TVD	132.0m	Daily Cost	
Rig	Ocean Patriot	Days from spud		F.I.T. / L.O.T.	0sg / 0sg	Cum Cost	
Wtr Dpth(LAT)	68.2m	Days on well	4.15			Planned TD	1788.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600	POH with 4	145 mm (17-1/2") BH	HA after wiper tr	ip.	
RT-ML	89.7m	Planned Op		face. Run 340 mm (HA. Run Wear Bush			ut 445 mm

RIH with 445 mm (17-1/2") BHA and drilled out cement and shoe track. Drilled 445 mm (17-1/2") hole from 133 m to 665 m (TD). Commenced POH.

Operations For Period 0000 Hrs to 2400 Hrs on 18 Jun 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
СН	Р	HBHA	0000	0100	1.00	133.0m	Continued to lay down and break out 914 mm (36") BHA.
СН	Р	TI	0100	0300	2.00	133.0m	Made up 445 mm (17-1/2") BHA and RIH. Installed guide ropes in moonpool.
СН	Р	TI	0300	0345	0.75	133.0m	Stabbed 445 mm (17-1/2") BHA into wellhead. Top of wellhead tagged at 86.35 mRT. Continued to RIH. Tagged top of cement at 128.67 m.
CH	Р	DFS	0345	0415	0.50	133.0m	Drilled out cement and casing shoe (Shoe Depth 132 m). Pumped 8 m3 (50 bbl) PHG sweep at 130 m. [Avg parameters: 800 gal/min, 60 rpm, 2-5 WOB]
СН	TP (OTH)	DFS	0445	0530	0.75	133.0m	Stopped drilling to investigate guidepost release. Informed by ROV that guidepost #3 had released. ROV re-stabbed guidepost and re-installed pin. ROV confirmed guidewire free of BHA prior to retensioning. Checked PGB bullseye - 0.5 deg.
PH	Р	DA	0530	0600	0.50	137.0m	Drilled ahead 445 mm (17-1/2") hole from 133 m to 137 m. Pumped 8 m3 (50 bbl) sweep and worked BHA through casing shoe.
PH	Р	DA	0600	2130	15.50	665.0m	Drilled ahead 445 mm (17-1/2") hole from 137 m to 665m (TD), pumping 8 m3 (50 bbl) PHG sweeps mid-stand and spotting 12 m3 (75 bbl) PHG around BHA on connections.
							[Avg parameters: 1100 gal/min, 10-45 WOB, 100-130 rpm, ROP 34 m/hr]
PH	Р	CMD	2130	2230	1.00	665.0m	Backreamed last stand twice. Pumped 32 m3 (200 bbl) PHG followed by 23 m3 (200 bbl) seawater. Displaced hole to PHG (127 m3 / 800 bbl). Dropped EMS.
PC	Р	ТО	2230	2400	1.50	665.0m	POH with 445 mm (17-1/2") BHA on 127 mm (5") drill pipe from 665 m to 455m, working through tight spots. (520-530m: 30-35 klb overpull)
							[Daily offline activities: Stump tested BOP]

Operations For Period 0000 Hrs to 0600 Hrs on 19 Jun 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
PC	Р	TOT	0000	0130	1.50	665.0m	POH with 445 mm (17-1/2") BHA on 127 mm (5") drill pipe from 455 m to 508 mm (20") casing shoe at 132m, working through tight spots. (450-300 m: 20 to 30 klb overpull; 300-220 m: 35-50 klb overpull)
PC	P	WT	0130	0330	2.00	665.0m	RIH with 445 mm (17-1/2") BHA on 127 mm (5") drill pipe to 665 m (TD) for wiper trip, working through tight spots. Washed down through 3 m fill. (372m: 40 klb wt down; 391m: 40 klb wt down; 452 m: 40 klb wt down - worked through approx. 30 min)
PC	Р	CHC	0330	0400	0.50	665.0m	Circulated bottoms up with PHG at 4160lpm (1100 gpm), whilst slowly working pipe.
PC	Р	ТО	0400	0600	2.00	665.0m	(IN PROGRESS) Commenced POH with 445 mm (17-1/2") BHA on 127 mm (5") drill pipe from 665 m to surface. Hole good. No drag. Jetted wellhead on trip out.

WBM Data									
Mud Type:	PHG	API FL:	13cm ³ /30m	CI:	850	Solids:	3	Viscosity:	0sec/L
Sample-From:	Pit 3	Filter-Cake:	1mm	K+C*1000:	0%	H2O:	98%	PV: YP:	0.017Pa/s 0.148MPa
Time:	16:30	HTHP-FL:	0cm ³ /30m	Hard/Ca:	40	Oil:	0%	Gels 10s: Gels 10m:	0.182 0.259
Weight:	1.04sg	HTHP-Cake:	0mm	MBT:	27	Sand:		Fann 003:	0.259
Temp:	15.0C°			PM:	0.65	pH:	10	Fann 006: Fann 100:	28 35
				PF:	0.4	PHPA:		Fann 200:	43
								Fann 300:	48
								Fann 600:	65



DRILLING MORNING REPORT # 5 Casino-5 (18 Jun 2005)

Bit # 2				We	ar I		O1	D	L	В	G	O2	R
Size ("):	445mm	IADC#	115		Nozzles		Dril	led over la	ast 24 hrs	S Calc	ulate	d over B	it Run
Mfr:	SMITH	WOB(avg)	1.36mt	No.	Size		Progre	ess	532.	Om Cum. Prog	gress		532.0r
Type:		RPM(avg)		1		32nd"	_	ttom Hrs	11.3	9h Cum. On	- Btm H	rs	11.39
Serial No.:	MR9725	F.Rate	4278lpm			32nd"	IADC	Drill Hrs	14.5	60h Cum IADO	Drill	Hrs	14.50
Bit Model	XR+CRS	SPP	17926kPa		20/	OZIIG	Total I			0 Cum Tota			
Depth In	133.0m	TFA	1.169				ROP(a		46.71 m				46.71 m/l
Depth Out	100.0111	,	11.100					u•9)	10.7 1 111	, iii ittor (avg)			10.7 1 11.7
BHA # 2													
Weight(Wet)	0mt	Length			275.9m	Torque	e(max)		00	Nm D.C. (1) A	nn Ve	locity	
3						•	` ′			` ′		•	
Wt Below Jar(Wet)	2.27mt	String				•	e(Off.Bt	,		Nm D.C. (2) A		•	
		Pick-Up			0mt	Torque	e(On.Bt	tm)	10	Im H.W.D.P.	Ann \	/elocity	
		Slack-Off			0mt					D.P. Ann	Veloci	ity	
BHA Run Description		(9-1/2") NI		mm (17	7-1/2") stal	biliser,	2 x 241	mm (9-1/		/ DC, 445 mm /O, 8 x 203 mm			
Equ	ipment		Len	gth	OD	I	D	Seria	al#		Com	ment	
Bit			0.	44m	445mm		0mm	MR9725		Smith XR+CR Nozzles	S c/w	1 x 18, 3	x 20
Near Bit Stabiliser			1.	62m	445mm		0mm	3135		C/W Float			
Pony Drill Collar			3.	01m	241mm		0mm	SBD2369					
Stab			2.	10m	241mm		0mm	A229		c/w Totco Ring	3		
NMDC			9.	04m	241mm		0mm	6613					
Stab			2.	18m	241mm		0mm	47618					
Drill Collar			18.	34m	241mm		0mm	Various					
X/O			1.	09m	240mm		0mm	SANTOS					
Drill Collar			71.	57m	203mm		0mm	Various					
Jar			9.	20m	210mm		0mm	DAH0222	0				
Drill Collar			17.	90m	202mm		0mm	Various					
X/O			1.	09m	203mm		0mm	SANTOS					
HWDP			138.	37m	162mm		0mm	Various					
Bulk Stocks						Pers	onnel	On Boa	ard				
Name	Unit	In	Used /	Adjust	Balance			Com	ipany			Pa	ЭX
Fuel	m3	0	16.2	0	318.8	Santos	S				5		
Drill Water	m3	371.3	389.4	0	601.1	DOGC	;				51		
Potable Water	m3	31.3	28.3	0	263.1	ESS					8		
Gel	sx	0	884	0		Dowel					2		
Cement	sx	2713	0			Geose	ervices				2		
Barite	sx	0	0	0	1,555.0	Fugro					6		
KCI Brine	bbl	0	0	0	0.0	Came	ron				4		
						MI					2		
							erford				4		
						Sperry	/-Sun				3		
										Total	87		
Casing													
OD L.O.T. / F	.l.T.	Csg Shoe (MD/TVD)						Cementin	ng			
762 0sg / 0s	sg	132.0m / 1	132.0m	199 I	obl, 15.8 p	pg, Cla	ass G w	ith 1.5% E	BWOC Ca	Cl2			



HSE Summary			
Events	Date of Last	Days Since	Remarks
Abandon Drill	18 Jun 2005	0 Days	Abandon Drill
BOP Test	18 Jun 2005	0 Days	BOP Test
Environmental Incident	02 May 2005	47 Days	None reported since commencement of campaign.
Fire Drill	18 Jun 2005	0 Days	Fire Drill
First Aid	04 May 2005	45 Days	Person struck on nose with metal bar
Lost Time Incident	02 May 2005	47 Days	None reported since commencement of campaign.
Man Overboard Drill	02 May 2005	47 Days	None undertaken since commencement of campaign.
Near Miss	02 May 2005	47 Days	None reported since commencement of campaign.
Safety Meeting	12 Jun 2005	6 Days	Weekly Safety Meeting
Stop Cards	18 Jun 2005	0 Days	6 Stop Cards

Marine									
Weather ch	eck on 18 Jun	2005 at 240)					Rig Support	
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (mt)
22.2km	28km/h	045deg	1012.00bar	12.0C°	0.3m	225deg	0m/sec	1	12.02
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather	Comments	2	13.38
0.3deg	0.5deg	0m	1.5m	225deg	2m/sec	CI	ear	- 3 4	8.30 12.11
Rig Dir.	Ris. Tension	VDL		Comments				5	11.61
251.0deg	0mt	227.16mt						6	11.52
								7	14.38
								8	11.61

Boats	Arrived (date/time)	Departed (date/time)	Status		Bulks	
Far Grip			Ocean Patriot	Item	Unit	Quantity
				Fuel	m3	292
				Drill Water	m3	0
				Potable Water	m3	354
				Gel	t	0
				Cement	t	0
				Barite	t	81
				KCI Brine	bbl	1000
Pacific			Ocean Patriot	Item	Unit	Quantity
Wrangler				Fuel	m3	522
				Drill Water	m3	0
				Potable Water	m3	211
				Gel	t	42
				Cement	t	0
				Barite	t	37
				KCI Brine	bbl	950

Helicopter Movement Flight # Time Destination Comment Pax 1 10:01 Ocean Patriot 5

10:09

Essendon



		From:	Chris Wise /	Pat King			
		OIM:	Barry Scott				
Well Data							
Country	Australia	M. Depth	665.0m	Cur. Hole Size	311mm	AFE Cost	
Field	Casino	TVD	665.0m	Casing OD	340mm	AFE No.	5746022
Drill Co.	DOGC	Progress	0m	Shoe TVD	654.8m	Daily Cost	
Rig	Ocean Patriot	Days from spud		F.I.T. / L.O.T.	0sg / 0sg	Cum Cost	
Wtr Dpth(LAT)	68.2m	Days on well	5.15			Planned TD	1788.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600	POH with >	KT running tool.			
RT-ML	89.7m	Planned Op	Run Riser : RIH.	and BOPs. Pressure	test BOPs. Ma	ake up 311 mm (12-	1/4") BHA and

POH with 445 mm (17-1/2") BHA to casing shoe. RIH to bottom for wiper trip. POH to surface. Ran 340 mm (13-3/8") casing & cemented. Commenced running XT.

Operations For Period 0000 Hrs to 2400 Hrs on 19 Jun 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
PC	Р	ТОТ	0000	0130	1.50	665.0m	POH with 445 mm (17-1/2") BHA on 127 mm (5") drill pipe from 455 m to 508 mm (20") casing shoe at 132m, working through tight spots. (450-300 m: 20 to 30 klb overpull; 300-220 m: 35-50 klb overpull)
PC	Р	WT	0130	0330	2.00	665.0m	RIH with 445 mm (17-1/2") BHA on 127 mm (5") drill pipe to 665 m (TD) for wiper trip, working through tight spots. Washed down through 3 m fill. (372m: 40 klb wt down; 391m: 40 klb wt down; 452 m: 40 klb wt down - worked through approx. 30 min)
PC	Р	CHC	0330	0400	0.50	665.0m	Circulated bottoms up with PHG at 4160lpm (1100 gpm), whilst slowly working pipe.
PC	Р	то	0400	0630	2.50	665.0m	Commenced POH with 445 mm (17-1/2") BHA on 127 mm (5") drill pipe from 665 m to surface. Hole good. No drag. Jetted wellhead on trip out.
PC	Р	HBHA	0630	0730	1.00	665.0m	Retrieved EMS (0.5 deg, Az 118 deg) Broke off bit and racked back BHA.
PC	Р	RRC	0730	0830	1.00	665.0m	Held pre-job safety meeting - running casing. Rigged up to run 340 mm (13-3/8") casing.
PC	Р	CRN	0830	0930	1.00	665.0m	Picked up shoe. Pumped through float to confirmed float drains clear. Picked up float collar joint and made up same. (Baker-locked first 2 connections). Attached guide ropes in moon pool.
PC	Р	CRN	0930	1000	0.50	665.0m	Rigged up TAM packer, stabbed into casing and inflated same. Pumped 1.5 m3 (10 bbl) seawater.
PC	Р	CRN	1000	1330	3.50	665.0m	Ran 45 joints 340 mm (13-3/8") 107 kg/m (72 lb/ft) L80 BTC casing to 560 m, filling every 5 joints. (ROV observed stab through wellhead at 86.35 m)
PC	Р	CRN	1330	1400	0.50	665.0m	Rigged down 340 mm (13-3/8") casing handling equipment.
PC	Р	WH	1400	1530	1.50	665.0m	Picked up 406 mm (16") HD90 Quick Stab x 340 mm (13-3/8") BTC X/O and made up to 340 mm (13-3/8") casing. Picked up 476 mm (18-3/4") wellhead housing and made up to 406 mm (16") HD 90 connection on X/O. Picked up cement plug basket and made up same to 476 mm (18-3/4") wellhead housing running tool. Made up running tool to 476 mm (18-3/4") wellhead housing.
PC	Р	WH	1530	1700	1.50	665.0m	RIH with 476 mm (18-3/4") running tool, wellhead housing and 340 mm (13-3/8") casing on 127 mm (5") drill pipe and spaced out. Made up Dowell Deep Sea Express cement head.
PC	Р	WH	1700	1730	0.50	665.0m	Landed out 476 mm (18-3/4") wellhead housing in 762 mm (30") wellhead. Confirmed latched with 22.7 t (50,000 lb) overpull. Circulated seawater. (Top of HP Wellhead housing = 85.5mRT)
PC	Р	CMC	1730	2000	2.50	665.0m	Cemented 340 mm (13-3/8") casing. (Lead: 41 m3 / 258 bbl, 648 sx Class G, 1.5 sg / 12.5 ppg, surface) (Tail: 14.5 m3 / 91 bbl, 433 sx Class G, 1.9 sg / 15.8 ppg, 505 m)
							17:35 Pumped 1.6 m3 (10 bbl) seawater w/dye 17:44 Pressure tested lines to 24100 kPa (3500 psi) 18:00 Released bottom dart. Pumped 1.6 m3 (10 bbl) seawater 18:10 Bottom plug released (1.1 m3 / 6.8 bbl pumped) 18:11 Mixed and pumped 41 m3 (258 bbl) Lead slurry 18:50 Mixed and pumped 14.5 m3 (91 bbl) Tail slurry 19:12 Released top dart. Pumped 3 m3 (20 bbl) seawater. 19:15 Top plug released (1 m3 / 6.5 bbl pumped). 19:20 Displaced cement with 41 m3 (256 bbl) seawater using rig pumps. (Dye & cement returns noted) 19:45 Bumped plug with 4100 kPa (600 psi). Pressure tested casing to 3000 psi. 19:55 Bled back 0.8 m3 (5 bbl).
PC	Р	WH	2000	2100	1.00	665.0m	Rigged down cement lines. Released 476 mm (18-3/4") wellhead running tool. Racked back Dowell Deep Sea Express cement head.



DRILLING MORNING REPORT # 6 Casino-5 (19 Jun 2005)

Phse	Cls (RC)	Op	From	То	Hrs	Depth	Activity Description
							[Offine XT activities to 21:00 - Fitted tie rod connectors between cart and NOMAR carrier. Changed out and inspected XT gasket and Metal End Cap. Picked up XT and TRT assembly and landed onto cart. Chained down XT onto cart.]
PC	Р	WH	2100	2215	1.25	665.0m	POH with 476 mm (18-3/4") wellhead running tool and laid out same. Picked up back-up 476 mm (18-3/4") wellhead running tool, broke out pup joint and laid out. Laid out Dowell Deep Sea Express cement head.
							[Offline Activities: Skidded rig off location. ROV installed lightweight debris cap on wellhead.]
PC	Р	XT	2215	2400	1.75	665.0m	Picked up Tree Running Tool (TRT) and made up to stand of 127 mm (5") drill pipe. Held JSA - running Xmas Tree (XT). Slacked off guidelines. Skidded cart & XT under rotary table. Ran Cameron TRT through rotary table and made up to XT.

Operations For Period 0000 Hrs to 0600 Hrs on 20 Jun 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
PC	Р	XT	0000	0200	2.00	665.0m	Installed guidewires into XT and TRT guide funnels. Picked up XT and skidded cart. RIH with XT on 127 mm (5") drill pipe landing string to 22 m above wellhead, clamping XT Installation & Workover Control System (IWOCS) umbilical to the landing string.
PC	Р	XT	0200	0300	1.00	665.0m	Re-positioned rig over location and re-tensioned guidewires. Removed lightweight debris cap with ROV. Flushed through AX Test (AXT) line.
PC	P	XT	0300	0445	1.75	665.0m	RIH XT on 127 mm (5") landing string, landed and latched on 762 mm (30") wellhead (indicator showed fully locked at 29400 kPa / 4270 psi lock pressure). Pulled 22.7 t (50,000 lb) overpull to confirm latched. [Daily Offline Activities: Commenced pressure testing choke manifold to 1380 kPa (200 psi) / 27600 kPa (4000 psi)]
PC	Р	XT	0445	0515	0.50	665.0m	Pressure tested wellhead connector through AXT line to 34500 kPa (5000 psi). Removed hot stab from AXT receptacle with ROV.
PC	Р	XT	0515	0600	0.75	665.0m	Unlatched running tool from XT and commenced POH. ROV installed lightweight debris cap on XT. ROV closed AXT needle valve (4.5 turns, 70 Nm/52 ft.lb)

General	Comments

Conorai Commonto		
Comments	Rig Requirements	Lessons Learnt
18 Jun 05: BOP stump Test Pipe & Blind Rams: 34500 kPa / 5000 psi Annular & LMRP Connector: 27600 kPa / 4000 psi		

WBM Data									
Mud Type:	PHG	API FL:	13cm ³ /30m	CI:	850	Solids:	3.1	Viscosity:	0sec/L
Sample-From:	Pit 2	Filter-Cake:	1mm	K+C*1000:	0%	H2O:	98%	PV: YP:	0.012Pa/s 0.230MPa
Time:	19:00	HTHP-FL:	0cm ³ /30m	Hard/Ca:	40	Oil:	0%	Gels 10s:	0.172
Weight:	1.04sg	HTHP-Cake:	0mm	MBT:	28	Sand:		Gels 10m: Fann 003:	0.263 48
Temp:	15.0C°			PM:	0.6	pH:	10	Fann 006:	48
				PF:	0.4	PHPA:		Fann 100: Fann 200:	54 58
								Fann 300:	60
								Fann 600:	72

Bit # 2				Wear	I	O1	D	L	В	G	O2	R
Sizo ("):	445mm	115	Na	ozzles	Dril	Drilled over last 24 hrs			Calculated over Bit Run			
Size ("):			_								u over bii	
Mfr:	SMITH	WOB(avg)	1.36mt	No.	Size	Progre	ess	10	n Cum.	Progress		532.0m
Type:	Rock	RPM(avg)	110	1	18/32nd	" On Bo	ttom Hrs	0	h Cum.	On Btm H	rs	11.39h
Serial No.:	MR9725	F.Rate	4278lpm	3	20/32nd	" IADC	Drill Hrs	0	h Cum	IADC Drill	Hrs	14.50h
Bit Model	XR+CRS	SPP	17926kPa			Total I	Revs		0 Cum	Total Revs	;	0
Depth In	133.0m	TFA	1.169			ROP(a	avg)	N/	A ROP	avg)		46.71 m/hr
Depth Out	665.0m											



BHA # 2											
Weight(Wet)		0mt	Length	1		275.9m	Torque(max))	0Nm	D.C. (1) Ann Velocity
Wt Below Ja	r(Wet)	2.27mt	String			0mt	Torque(Off.E	Btm)	0Nm	D.C. (2) Ann Velocity
			Pick-U	lp		0mt	Torque(On.E	Btm)	0Nm	H.W.D	D.P. Ann Velocity
			Slack-	Off		0mt				D.P. A	Ann Velocity
(9-1/2") NME					, 445 mm	(17-1/2") sta		1 mm (9-1/2") Ď(mm (17-1/2") Stab, 241 mm mm (8") DC, 203 mm (8")
	Equipm	ent			Length	OD	ID	Serial #			Comment
Bit					0.44m	445mm	0mm	MR9725	_	ith XR+ zzles	-CRS c/w 1 x 18, 3 x 20
Near Bit Stat	oiliser				1.62m	445mm	0mm	3135	C/V	V Float	
Pony Drill Co	ollar				3.01m	241mm	0mm	SBD2369			
Stab					2.10m	241mm	0mm	A229	c/w	Totco I	Ring
NMDC					9.04m	241mm	0mm	6613			
Stab					2.18m	241mm	0mm	47618			
Drill Collar					18.34m	241mm	0mm	Various			
X/O					1.09m	240mm	0mm	SANTOS			
Drill Collar					71.57m	203mm	0mm	Various			
Jar					9.20m	210mm	0mm	DAH02220			
Drill Collar					17.90m	202mm	0mm	Various			
X/O					1.09m	203mm	0mm	SANTOS			
HWDP					138.37m	162mm	0mm	Various			
Survey											
MD (m)	Incl Deg (deg)		r. Az eg)	TV (m		'V' Sect (m)	Dogleg (deg/30m)	N/S (m)		/W m)	Tool Type
522.35	0.2	169.8		0	0		0	0	0		EMS
551.14	0.5	129.9		0	0		0	0	0		EMS
579.90	0.5	127.7		0	0		0	0	0		EMS
608.62	0.5	119.5		0	0		0	0	0		EMS
636.96	0.5	120.1		0	0		0	0	0		EMS
652.27	0.5	118.1		0	0		0	0	0		EMS

030.30	0.5	120.1	U		U		U	U	U	LIVIO			
652.27	0.5	118.1	0		0		0	0	0	EMS			
Bulk Sto	Bulk Stocks							Personnel On Board					
١	Name	Unit	In	Used	Adjust	Balance		Company		Pax			
Fuel		m3	0	16.2	0	302.6	Santos			5			
Drill Water		m3	0	140.8	0	460.3	DOGC			51			
Potable Wa	ater	m3	34.1	31.3	0	265.9	ESS			8			
Gel		sx	1002	239	0	1,699.0	Dowell			2			
Cement		sx	0	1000	-32	2,272.0	Geoservices			2			
Barite		sx	0	0	0	1,555.0	Fugro			6			
KCI Brine		bbl	0	0	0	0.0	Cameron			4			
							MI			2			
							Weatherford			4			
							Sperry-Sun			3			
									То	tal 87			

Casing	g		
OD	L.O.T. / F.I.T.	Csg Shoe (MD/TVD)	Cementing
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2
340	0sg / 0sg	654.8m / 654.8m	



HSE Summary			
Events	Date of Last	Days Since	Remarks
Abandon Drill	12 Jun 2005	7 Days	Abandon Drill
BOP Test	18 Jun 2005	1 Day	BOP Test
Environmental Incident	02 May 2005	48 Days	None reported since commencement of campaign.
Fire Drill	12 Jun 2005	7 Days	Fire Drill
First Aid	04 May 2005	46 Days	Person struck on nose with metal bar
Lost Time Incident	02 May 2005	48 Days	None reported since commencement of campaign.
Man Overboard Drill	02 May 2005	48 Days	None undertaken since commencement of campaign.
Near Miss	02 May 2005	48 Days	None reported since commencement of campaign.
Safety Meeting	19 Jun 2005	0 Days	Weekly Safety Meeting
Stop Cards	19 Jun 2005	0 Days	13 Stop Cards

Marine	Marine									
Weather che	eck on 19 Jun	2005 at 2400	Rig Support							
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (mt)	
18.5km	37km/h	045deg	993.00bar	11.0C°	0.5m	045deg	0m/sec	1	11.88	
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather	Comments	2	13.52	
0.4deg	0.3deg	0m	1.5m	225deg	2m/sec	Cl	ear	- 3	8.21	
0.4dcg	0.0dcg	0111	1.0111	ZZOGOG	2111/300	O.	Cui	4	12.20	
Rig Dir.	Ris. Tension	VDL		Comments				5	11.70	
251.0deg	0mt	190.01mt						6	11.52	
								- 7	14.20	
								8	11.61	

Boats	Arrived (date/time)	Departed (date/time)	Status	Е	Bulks	•
Far Grip			Portland	Item	Unit	Quantity
				Fuel	m3	280
				Drill Water	m3	0
				Potable Water	m3	346
				Gel	t	0
				Cement	t	0
				Barite	t	81
				KCI Brine	bbl	0
Pacific			Ocean Patriot	Item	Unit	Quantity
Wrangler				Fuel	m3	510.9
				Drill Water	m3	0
				Potable Water	m3	206
				Gel	t	0
				Cement	t	0
				Barite	t	37
				KCI Brine	bbl	950



		From :	Chris Wise /	Pat King			
		OIM:	Barry Scott				
Well Data							
Country	Australia	M. Depth	665.0m	Cur. Hole Size	311mm	AFE Cost	
Field	Casino	TVD	665.0m	Casing OD	340mm	AFE No.	5746022
Drill Co.	DOGC	Progress	0m	Shoe TVD	654.8m	Daily Cost	
Rig	Ocean Patriot	Days from spud		F.I.T. / L.O.T.	0sg / 0sg	Cum Cost	
Wtr Dpth(LAT)	68.2m	Days on well	6.15			Planned TD	1788.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600	Attempting	to unlock riser slip j	oint.		
RT-ML	89.7m	Planned Op	(18-3/4") w assembly,	cope out riser slip jo ear bushing. Make u Dowell plug launche Express cement hea RIH.	up Cameron Cl er and 273 mm	ISÄRT, 273 mm (1 (10-3/4") hanger as	0-3/4") seal ssembly. Make up

Ran XT. Pressure tested choke & kill manifold to 1720 kPa (250 psi) / 5 min & 27500 kPa (4000 psi) / 10 min. Ran BOP and riser. Landed BOP on XT.

Operations For Period 0000 Hrs to 2400 Hrs on 20 Jun 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
PC	Р	XT	0000	0200	2.00	665.0m	Installed guidewires into XT and TRT guide funnels. Picked up XT and skidded cart. RIH with XT on 127 mm (5") drill pipe landing string to 22 m above wellhead, clamping XT Installation & Workover Control System (IWOCS) umbilical to the landing string.
PC	Р	XT	0200	0300	1.00	665.0m	Re-positioned rig over location and re-tensioned guidewires. Removed lightweight debris cap with ROV. Flushed through AX Test (AXT) line.
PC	P	XT	0300	0445	1.75	665.0m	RIH XT on 127 mm (5") landing string, landed and latched on 762 mm (30") wellhead (indicator showed fully locked at 29400 kPa / 4270 psi lock pressure). Pulled 22.7 t (50,000 lb) overpull to confirm latched. [Offline: Pressure tested choke manifold to 1720 kPa (250 psi) / 27600 kPa (4000 psi)]
PC	Р	XT	0445	0515	0.50	665.0m	Pressure tested wellhead connector through AXT line to 34500 kPa (5000 psi). Removed hot stab from AXT receptacle with ROV.
PC	Р	XT	0515	0700	1.75	665.0m	Unlatched running tool from XT and commenced POH. ROV installed lightweight debris cap on XT. ROV closed AXT needle valve (4.5 turns, 70 Nm/52 ft.lb)
PC	Р	RR1	0700	0800	1.00	665.0m	Rigged up to run riser and BOP. Skidded rig 15 m port.
PC	Р	RR1	0800	1230	4.50	665.0m	Held JSA - running riser & BOP. Picked up two riser joints, made up and racked back same. Installed new ring gasket in BOP. Removed cart from NOMAR carrier and lowered BOP onto same. Skidded NOMAR carrier with BOP into moonpool.
PC	Р	RR1	1230	1400	1.50	665.0m	Installed guidewires and pod hoses / clamps.
PC	Р	RR1	1400	1630	2.50	665.0m	Made up riser double to BOP. Disconnected control line from pod reel. Ran riser and BOP. Pressure tested choke & kill lines to 1380 kPa (200 psi) / 5 min & 34500 kPa (5000 psi) / 10 min.
PC	Р	RR1	1630	1730	1.00	665.0m	Picked up riser slip joint. Installed pod hose clamps.
PC	Р	RR1	1730	2130	4.00	665.0m	Picked up riser landing joint. Installed SDL ring to slip joint whilst moving rig back over location. Nippled up choke, kill and booster lines.
PC	Р	RR1	2130	2230	1.00	665.0m	Attached pod hose saddles to guide wires. Pressure tested choke and kill lines to 1400 kPa (200 psi) / 5 min and 34500 kPa (5000 psi) / 10 min.
PC	Р	RR1	2230	2345	1.25	665.0m	Repositioned rig to align BOP with guideposts. Landed out BOP on XT @ 23:40. Bullseye readings: Flex Jt 0.5 deg Port/Fwd; BOP stack 1 deg Stbd.
PC	TP (RE)	RR1	2345	2400	0.25	665.0m	Inspected slip joint position in moonpool prior to locking wellhead. (23:50) Riser tensioner cable parted, releasing clyinder fluid (contained). Shut down operation to investigate failure and clean work area.

Operations For Period 0000 Hrs to 0600 Hrs on 21 Jun 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
PC	TP (RE)	RR1	0000	0030	0.50	665.0m	Isolated failed riser tensioner. Continued cleaning work area and confirmed capability to resume operations.
PC	Р	BOP	0030	0100	0.50	665.0m	Latched BOP to XT connector. Confirmed latched with 22.7 t (50,000 lb) overpull.
PC	Р	RR1	0100	0330	2.50	665.0m	Installed storm saddles and secured pod hoses to same.
PC	TP (RE)	RR1	0330	0600	2.50	665.0m	Attempted to unlock slip joint (lock-in bolts seized)



General Comments						
Comments	Rig Requirements	Lessons Learnt				
Problems encountered whilst running BOP stack: - damaged hydraulic lifting ram - guidewire jumped shieve - riser tensioner cable parted, releasing cylinder fluid (Near Miss) - seized slip joint lock-in bolts - Subsea engineer new to rig and out of hours - New subsea trainee had inadequate experience to work without subsea supervision						

WBM Data									
Mud Type:	PHG	API FL:	13cm ³ /30m	CI:	850	Solids:	3.1	Viscosity:	0sec/L
Sample-From:	Pit 2	Filter-Cake:	1mm	K+C*1000:	0%	H2O:	98%	PV:	0.012Pa/s 0.230MPa
Time:		HTHP-FL:	0cm ³ /30m	Hard/Ca:	40	Oil:		Gels 10s:	0.230MPa 0.172
							0%	Gels 10m:	0.263
Weight:	1.04sg	HTHP-Cake:	0mm	MBT:	28	Sand:		Fann 003:	48
Temp:	15.0C°			PM:	0.6	pH:	10	Fann 006: Fann 100:	48 54
				PF:	0.4	PHPA:	0ppb	Fann 200:	58
								Fann 300:	60
								Fann 600:	72

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Fuel	m3	0	13	0	289.6	Santos	4
Drill Water	m3	0	67.4	0	392.9	DOGC	51
Potable Water	m3	27.7	28.6	0	265.0	ESS	8
Gel	sx	0	0	0	1,699.0	Dowell	2
Cement	sx	0	0	0	2,272.0	Geoservices	6
Barite	sx	0	859	0	696.0	Fugro	6
KCI Brine	bbl	0	0	0	0.0	Cameron	2
						MI	2
						Weatherford	3
						Sperry-Sun	3
						Total	87

Casing	g		
OD	L.O.T. / F.I.T.	Csg Shoe (MD/TVD)	Cementing
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2
340	0sg / 0sg	654.8m / 654.8m	

HSE Summary			
Events	Date of Last	Days Since	Remarks
Abandon Drill	18 Jun 2005	2 Days	Abandon Drill
BOP Test	18 Jun 2005	2 Days	BOP Test
Environmental Incident	02 May 2005	49 Days	None reported since commencement of campaign.
Fire Drill	18 Jun 2005	2 Days	Fire Drill
First Aid	04 May 2005	47 Days	Person struck on nose with metal bar
Lost Time Incident	02 May 2005	49 Days	None reported since commencement of campaign.
Man Overboard Drill	02 May 2005	49 Days	None undertaken since commencement of campaign.
Near Miss	20 Jun 2005	0 Days	Failed riser tensioner cable, release of fluid from cylinder (all contained).
Safety Meeting	19 Jun 2005	1 Day	Weekly Safety Meeting
Stop Cards	20 Jun 2005	0 Days	3 Stop Cards



DRILLING MORNING REPORT # 7 Casino-5 (20 Jun 2005)

Marine									
Weather ch	eck on 20 Jun	2005 at 2400		Rig Support					
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (mt)
18.5km	41km/h	225deg	993.00bar	12.0C°	1.0m	225deg	0m/sec	1	12.11
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	12.61
0.4deg	0.3deg	0m	2.0m	225deg	2m/sec	C	ear	3	8.71
0.4dcg	0.0dcg	OIII	2.0111	ZZOGCG	2117,000	0	cai	4	8.39
Rig Dir.	Ris. Tension	VDL		Comments				5	10.89
251.0deg	0mt	218.50mt						6	11.88
	3.110	2.0.001110						7	13.52
								8	12.52

Boats	Arrived (d	late/time)	Departed (date/time)	Status		Bulks	
Far Grip				Portland	Item	Unit	Quantity
					Fuel	m3	280
					Drill Water	m3	0
					Potable Water	m3	346
					Gel	t	0
					Cement	t	0
					Barite	t	81
					KCI Brine	bbl	0
Pacific				Ocean Patriot	Item	Unit	Quantity
Wrangler					Fuel	m3	499.3
					Drill Water	m3	0
					Potable Water	m3	201
					Gel	t	0
					Cement	t	0
					Barite	t	37
					KCI Brine	bbl	950
Helicopter	Movement						
Flight #	Time		Destination		Comment		Pax
1	10:06	Ocean Patriot					4
1	10:15	Ocean Patriot					4



		From:	Richard Buit	enhuis / Pat King]		
		OIM:	Barry Scott				
Well Data							
Country	Australia	M. Depth	665.0m	Cur. Hole Size	445mm	AFE Cost	
Field	Casino	TVD	665.0m	Casing OD	340mm	AFE No.	5746022
Drill Co.	DOGC	Progress	0m	Shoe TVD	654.8m	Daily Cost	
Rig	Ocean Patriot	Days from spud		F.I.T. / L.O.T.	0sg / 0sg	Cum Cost	
Wtr Dpth(LAT)	68.2m	Days on well	7.15			Planned TD	1788.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600	RIH with 31	11 mm (12-1/4") BH/	۹.		
RT-ML	89.7m	Planned Op		m (12-1/4") BHA. Dr 311 mm (12-1/4") h		shoe track, floats a	nd rathole. LOT.

Landed BOP stack. Installed storm saddles. Stroked out riser slip joint. Installed diverter. Ran test tool. Pressure tested BOPs. Ran wear bushing.

Operations For Period 0000 Hrs to 2400 Hrs on 21 Jun 2005

Phse	Cls (RC)	Op	From	То	Hrs	Depth	Activity Description
PC	TP (RE)	RR1	0000	0030	0.50	665.0m	Isolated failed riser tensioner. Continued cleaning work area and confirmed capability to resume operations.
PC	Р	BOP	0030	0100	0.50	665.0m	Latched BOP to XT connector. Confirmed latched with 22.7 t (50,000 lb) overpull.
PC	Р	RR1	0100	0330	2.50	665.0m	Installed storm saddles and secured pod hoses to same.
PC	TP (RE)	RR1	0330	0800	4.50	665.0m	Unlocked slip joint. (One lock-in bolt would not release. Welder cut off bolt head to release.)
PC	Р	RR1	0800	0900	1.00	665.0m	Stroked out riser slip joint to rig floor. Broke down and laid out riser landing joint.
PC	Р	RR1	0900	1100	2.00	665.0m	Picked up diverter and made up same to slip joint. Landed and locked down diverter. Rigged down riser running equipment and cleared rig floor.
PC	Р	ВОР	1100	1230	1.50	665.0m	Made up jetting sub and 3 stands of 127 mm (5") HWDP below Cameron weight set test plug. RIH on 127 mm (5") drill pipe.
PC	P	ВОР	1230	1730	5.00	665.0m	Pressure tested (on blue pod) pipe rams, choke manifold, fail safe valves, choke & kill lines, wellhead connector to 1400 kPa (200 psi) / 5 min & 27500 kPa (4000 psi) / 10 min. Annulars tested to 1400 kPa (200 psi) / 20700 kPa (3000 psi). Function tested BOPs from yellow pod.
PC	Р	BOP	1730	1900	1.50	665.0m	POH and laid out test plug. Racked back HWDP.
PC	P	PT	1900	2200	3.00	665.0m	Pressure tested Top Drive valves (upper & lower) and kelly hose to 1400 kPa (200 psi) / 5 min & 27500 kPa (4000 psi) / 10 min. Rigged down test lines. Lined up to test standpipe manifold to 1400 kPa (200 psi) / 5 min & 27500 kPa (400 psi) / 10 min offline.
PC	P	WH	2200	2400	2.00	665.0m	Picked up wear bushing running tool and 476 mm (18-3/4") x 330 mm (13") wear bushing. Made up jetting sub and 3 stands of 127 mm (5") HWDP below running tool. Made up wear bushing to running tool. Made up stand of 127 mm (5") drill pipe and 476 mm (18-3/4") tool stabiliser to running tool and RIH assembly on 127 mm (5") drill pipe. Set wear bushing in 476 mm (18-3/4") wellhead.

Operations For Period 0000 Hrs to 0600 Hrs on 22 Jun 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
PC	Р	WH	0000	0100	1.00	665.0m	POH with wear bushing running tool. (Trimmed rig and worked running tool through hang up in XT wear sleeve)
PC	Р	HT	0100	0230	1.50	665.0m	Picked up Cameron Casing Hanger & Seal Assembly Running Tool (CHSART). Made up 273 mm (10-3/4") seal assembly, casing hanger and Dowell cement plug launcher & basket to CHSART and laid out.
PC	Р	HT	0230	0330	1.00	665.0m	Picked up Dowell Deep Sea Express cement head. Made up to 2 joints of 127 mm (5") HWDP and racked back.
PC	Р	НВНА	0330	0600	2.50	665.0m	Commenced picking up 311 mm (12-1/4") BHA and making up same. Confidence tested and initialised Sperry FEWD tools.

WBM Data									
Mud Type:	PHG	API FL:	14cm ³ /30m	CI:	800	Solids:	3	Viscosity:	0sec/
Sample-From:	Pit 2	Filter-Cake:	4	K+C*1000:	00/	H2O:		PV:	0.010Pa/
•	1112	Filter-Cake:	1mm	K+C 1000:	0%	H2U:	98%	YP:	0.263MP
Time:	20:00	HTHP-FL:	0cm ³ /30m	Hard/Ca:	80	Oil:	0%	Gels 10s:	0.19
\\/a:ab4.	1.0400							Gels 10m:	0.26
Weight:	1.04sg	HTHP-Cake:	0mm	MBT:	27	Sand:		Fann 003:	4
Temp:	15.0C°			PM:	0.4	pH:	10	Fann 006:	5
					0.1			Fann 100:	5
				PF:	0.3	PHPA:	0ppb	Fann 200:	6
								Fann 300:	6
								Fann 600:	7



Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Fuel	m3	0	8.7	0	280.9	Santos	5
Drill Water	m3	0	26.5	0	366.4	DOGC	50
Potable Water	m3	30.5	33.8	0	261.7	ESS	8
Gel	sx	0	0	0	1,699.0	Dowell	2
Cement	sx	0	0	0	2,272.0	Geoservices	6
Barite	sx	633	106	0	1,223.0	Fugro	6
KCI Brine	bbl	0	0	0	0.0	Cameron	2
	·					MI	2
						Weatherford	3
						Sperry-Sun	3
						Total	87

Casin	g		
OD	L.O.T. / F.I.T.	Csg Shoe (MD/TVD)	Cementing
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2
340	0sg / 0sg	654.8m / 654.8m	

HSE Summary			
Events	Date of Last	Days Since	Remarks
Abandon Drill	18 Jun 2005	3 Days	Abandon Drill
BOP Test	18 Jun 2005	3 Days	BOP Test
Environmental Incident	02 May 2005	50 Days	None reported since commencement of campaign.
Fire Drill	18 Jun 2005	3 Days	Fire Drill
First Aid	04 May 2005	48 Days	Person struck on nose with metal bar
Lost Time Incident	02 May 2005	50 Days	None reported since commencement of campaign.
Man Overboard Drill	02 May 2005	50 Days	None undertaken since commencement of campaign.
Near Miss	20 Jun 2005	1 Day	Failed compensator tensioner cable, release of compensator fluid.
Safety Meeting	19 Jun 2005	2 Days	Weekly Safety Meeting
Stop Cards	21 Jun 2005	0 Days	17 Stop Cards

Weather ch	eck on 21 Jun	2005 at 2400		Rig Support					
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (mt)
18.5km	37km/h	315deg	998.00bar	12.0C°	0.5m	315deg	0m/sec	1	12.11
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	12.61
0.6deg	0.5deg	2.00m	2.0m	225deg	2m/sec	Clear		- 3 4	8.71 8.39
Rig Dir.	Ris. Tension	VDL		Comments				5	10.89
251.0deg	0mt	213.55mt						6	11.88
- 3009								7	13.52
								8	12.52

Boats	Arrived (date/time)	Departed (date/time)	Status	1	Bulks	
Far Grip			Portland	Item	Unit	Quantity
				Fuel	m3	280
				Drill Water	m3	0
				Potable Water	m3	346
				Gel	t	0
				Cement	t	0
				Barite	t	81
				KCI Brine	bbl	0
Pacific			Ocean Patriot	Item	Unit	Quantity
Wrangler				Fuel	m3	588.4
				Drill Water	m3	0
				Potable Water	m3	196
				Gel	t	0
				Cement	t	0
				Barite	t	0
				KCI Brine	bbl	950





Helicopte	Movemen	t		
Flight #	Time	Destination	Comment	Pax
1	10:04	Ocean Patriot		11
1	10:16	Ocean Patriot		11



		From:	Richard Buite	enhuis / Pat Kir	ng		
		OIM:	Barry Scott				
Well Data							
Country	Australia	M. Depth	951.0m	Cur. Hole Size	311mm	AFE Cost	
Field	Casino	TVD	951.0m	Casing OD	340mm	AFE No.	5746022
Drill Co.	DOGC	Progress	286.0m	Shoe TVD	654.8m	Daily Cost	
Rig	Ocean Patriot	Days from spud		F.I.T. / L.O.T.	0sg / 2.08sg	Cum Cost	
Wtr Dpth(LAT)	68.2m	Days on well	8.15			Planned TD	1788.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600	Drilling ahe	ad 311 mm (12-1/	4") hole at 1017 r	n.	
RT-ML	89.7m	Planned Op		311 mm (12-1/4") I") hole to TD (173		POH for bit chan	ge. Drill ahead 311

Made up CHSART, casing hanger, seal assmbly & Dowell plug launcher. Made up Deep Sea Express cement head. Made up 311 mm (12-1/4") BHA and RIH. Drilled out hard cement, shoe & 3 m new formation. LOT. Drilled 311 mm (12-1/4") hole to 952 m.

Operations For Period 0000 Hrs to 2400 Hrs on 22 Jun 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
SC	Р	WH	0000	0100	1.00	665.0m	POH with wear bushing running tool. (Trimmed rig and worked running tool through hang up in XT wear sleeve)
SC	Р	HT	0100	0230	1.50	665.0m	Picked up Cameron Casing Hanger & Seal Assembly Running Tool (CHSART). Made up 273 mm (10-3/4") seal assembly, casing hanger and Dowell cement plug launcher & basket to CHSART and laid out.
SC	Р	HT	0230	0330	1.00	665.0m	Picked up Dowell Deep Sea Express cement head. Made up to 2 joints of 127 mm (5") HWDP and racked back.
SC	Р	НВНА	0330	0500	1.50	665.0m	Commenced picking up 311 mm (12-1/4") BHA and making up same.
IH	Р	DA	0500	0530	0.50	665.0m	Confidence tested and initialised Sperry FEWD tools.
SC	Р	НВНА	0530	0630	1.00	665.0m	Continued picking up 311 mm (12-1/4") BHA and making up same.
SC	Р	TI	0630	0915	2.75	665.0m	RIH with 311 mm (12-1/4") BHA on 127 mm (5") drill pipe. Shallow tested MWD. RIH and tagged cement at 633 m.
SC	Р	DC	0915	0930	0.25	665.0m	Drilled out cement from 633 m - 640.5 m.
SC	Р	DFS	0930	1015	0.75	665.0m	Drilled out float. [Avg parameters: 3066 l/min (810 gal/min), WOB 4.5 - 7 t (10-15 klb), 60 rpm]
IH	Р	DFS	1015	1230	2.25	668.0m	Drilled hard cement and float shoe, cleaned out rat hole and drilled 3 metres of new hole to 668 m. Pumped 10 m3 (60 bbl) hi vis sweep and displaced to surface with seawater.
IH	P	LOT	1230	1330	1.00	668.0m	Lined up Dowell unit to drill string, pumped 1.6 m3 (20 bbl) seawater and observed returns, closed annular preventers and conducted full leak-off test: Volume pumped - 0.47 m3 (2.95 bbl) Maximum pressure 6850 kPa (994 psi) 2.08 sg (17.36 ppg) EMW. Bled back 0.39 m3 (2.45 bbl) bled back
IH	Р	DA	1330	2200	8.50	908.0m	Drilled 311 mm (12-1/4") hole from 668 m - 908 m, pumping 8 m3 (50 bbl) PHG sweep mid stand, spotting 8 m3 (50 bbl) PHG around BHA prior to connections. [Avg Parameters: 3785 l/min (1000 gal/min), 4.5 - 9 t (10-35 k) WOB, 100 rpm]
IH	P	DA	2200	2300	1.00	940.0m	Drilled 311 mm (12-1/4") hole from 908 m - 940 m, pumping 8 m3 (50 bbl) PHG sweep mid stand, spotting 8 m3 (50 bbl) PHG around BHA and backreaming prior to connections. [Avg Parameters: 3785 l/min (1000 gal/min), 4.5 - 9 t (10-20 k) WOB, 100 rpm] Survey @ 858.08 m - 1.5 deg Az 236 deg Survey @ 915.48 m - 4.8 deg Az 243 deg
IH	Р	DA	2300	2400	1.00	951.0m	Drilled 311 mm (12-1/4") hole from 940 m - 951 m, pumping 8 m3 (50 bbl) PHG sweep mid stand. Changed parameters to control deviation. [Avg Parameters: 3975 l/min (1050 gal/min), 2 - 5 t (5-10 k) WOB, 130 rpm]

Operations For Period 0000 Hrs to 0600 Hrs on 23 Jun 2005

Phse	Cls (RC)	Op	From	То	Hrs	Depth	Activity Description
IH	TP (RE)	DA	0000	0030	0.50	951.0m	Lost pressure from seawater line. Opened bleed lines on each pump and pumped through to prime.
IH	Р	DA	0030	0100	0.50	956.0m	Drilled 311 mm (12-1/4") hole from 951 m to 956 m. [Avg parameters: 3975 l/min (1050 gal/min), 2 - 5 t (5-10 klb) WOB, 135 rpm]
IH	TP (VE)	DA	0100	0115	0.25	956.0m	Cycled pumps to switch modes on Sperry FEWD tools. (Tools not pulsing)
IH	P	DA	0115	0215	1.00	966.0m	Drilled 311 mm (12-1/4") hole from 956 m to 966 m. Pumped 50 bbl PHG sweep and backreamed stand whilst troubleshooting Sperry FEWD tools. Tools not pulsing - no FEWD or directional surveys. Prepared to change out to KCl Mud. [Avg parameters: 3975 l/min (1050 gal/min), 2 - 5 t (5-10 klb) WOB, 125 rpm]



Phse	Cls (RC)	Ор	Fı	rom	То	Hrs	Depth	h					A	ctivity De	scrip	otion			
IH	Р	DA	02	15 0	230	0.25	966.0m						PHG swee		ed pi	t for mix	king KCI M	lud) whilst	
IH	Р	DA	02	30 0	345	1.25	994.0m) [Orilled PHG	d ahea	d 311 mid-st	mm (12	2-1/4") hole potting 8 n	e from 96					
IH	Р	DA	03	45 0	500	1.25	1009.0r	m [Orilled	d ahea (total l	d 311	mm (12	min (1000 2-1/4") hole to switchi	e from 99	94 m	to 1009	m. Pump	ed 24 m3	(150 bbl)
IH	Р	DA	05	00 0	600	1.00	1017.0r	[. m [Avg p Orilled	aram d ahea	d 311	mm (12	min (800 g 2-1/4") hole min (950 g	e from 10	009 r	n to 101	7 m.	, -	om]
WBM	Data																		
Mud Typ	e:	Ph	HG	API FL	:	130	m³/30m	CI:				750	Solids:			3	Viscosity:		0sec/L
Sample	-From:	P	it 2	Filter-C	Cake:		1mm	K+C	*1000):		0%	H2O:			98%	PV: YP:		0.010Pa/s 0.259MPa
Time:		21:	00	HTHP-	·FL:	00	m³/30m	Harc	d/Ca:			80	Oil:			0%	Gels 10s:		0.182
Weight:		1.04	lsg	HTHP-	Cake:		0mm	MBT	-			28	Sand:				Gels 10m: Fann 003:		0.263
Temp:		15.0	C°				•	PM:				0.45				9.5	Fann 006:		50
								PF:				0.45					Fann 100:		55
								FF.				0.23	гпга.			0ppb	Fann 200: Fann 300:		59 64
																	Fann 600:		74
Bit #	3							We	ear	I		O1	D	L		В	G	O2	R
Size (")	•		3	11mm	IADC	#	415		No	zzles		Dril	led over la	ast 24 hi	rs	C	Calculated	l over Bit	Run
Mfr:				SMITH			0.68mt	No.		Size		Progre		286			Progress		286.0m
Type:				Rock			100	110.		OILO]	ottom Hrs		60h		On Btm Hi	rs	7.60h
Serial N	lo.:		М	R0049	F.Ra		785lpm						Drill Hrs		80h		ADC Drill I		12.80h
Bit Mod	lel)4BDV	SPP		305kPa					Total I			0		otal Revs		0
Depth I	n			65.0m	TFA		0.000					ROP(a	avg)	37.63 r	n/hr	ROP(a			7.63 m/hr
Depth C	Out			0m								,	0,			,	C,		
BHA :	# 3											1				<u>'</u>			
Weight	(Wet)		3	3.18mt	Leng	th			279	.2m	Torque	e(max)		0	Nm	D.C. (1) Ann Ve	locity	
Wt Belo	ow Jar(Wo	et)	2	2.45mt	Strin	a			9.5	3mt	Torque	e(Off.Bt	tm)	0	Nm	D.C. (2) Ann Ve	locity	
	(- ',			Pick-	-						e(On.Bt).P. Ann V	-	
					Slack	•				0mt	rorque)(O11D1	,	·			nn Veloci	•	
BHA R	un Descri	ption			311 r FEW	nm (12- D, Pulse		ional,	311 m 203	nm (12			b, 203 mm x 203 mm			L C, 311 r	mm (12-1/	4") Stab, S	
		Equip	me	nt	7/0,	13 % 12	Lenc	·)D	l II	D	Seria	al #			Com	ment	
HWDP		-441					138.3	,		2mm			Various	"					
Bit								33m		1mm			MR0049			ith GS0 18, 1 x	4BDV 20 nozzle	s	
Near Bi	it Stabilise	er					2.1	1m	31	1mm	(0mm	47602		c/w	Ported	Float		
,	rill Collar)4m		0mm	(49059						
Stab FEWD	Tools						13.1	08m 16m		1mm 3mm			AIB1134 Various		Pul	ser - 10	072859/X 599305 - 900745		
NM Por	ny Drill Co	ollar					20	93m	20	7mm		0mm	47637		ווט	Joudial	900143	J.J	
Drill Co	•						88.9			0mm			Various						
Jar								20m		0mm			DAH0222	0					
Drill Co	llar						17.9			2mm			Various						
X/O							1.0)9m	20	3mm	(0mm	SANTOS						



Survey								
MD (m)	Incl Deg (deg)	Corr. Az (deg)	TVD (m)	'V' Sect (m)	Dogleg (deg/30m)	N/S (m)	E/W (m)	Tool Type
712.41	0.6	146.9	712.34	-7.34	0.13	-7.34	3.62	MWD
741.29	1.3	173.8	741.22	-7.78	0.85	-7.78	3.73	MWD
800.77	1.6	179.3	800.68	-9.27	0.18	-9.27	3.81	MWD
858.08	1.6	236.4	857.97	-10.51	0.80	-10.51	3.16	MWD
915.48	4.8	243.6	915.28	-12.02	1.70	-12.02	0.34	MWD

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Fuel	m3	0	14.8	0	266.1	Santos	5
Drill Water	m3	0	48.1	0	318.3	DOGC	49
Potable Water	m3	32	37	0	256.7	ESS	8
Gel	sx	0	0	0	1,699.0	Dowell	2
Cement	sx	0	0	0	2,272.0	Geoservices	6
Barite	sx	0	0	0	1,223.0	Fugro	6
KCI Brine	bbl	0	0	0	0.0	Cameron	2
	·					MI	2
						Weatherford	4
						Sperry-Sun	3
						Expro	3
						Total	90

Casing	g			
OD	L.O.T. / F.I.T.	Csg Shoe (MD/TVD)	Cementing	
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2	
340	0sg / 0sg	654.8m / 654.8m		

HSE Summary			
Events	Date of Last	Days Since	Remarks
Abandon Drill	18 Jun 2005	4 Days	Abandon Drill
BOP Test	21 Jun 2005	1 Day	BOP Test
Environmental Incident	02 May 2005	51 Days	None reported since commencement of campaign.
Fire Drill	18 Jun 2005	4 Days	Fire Drill
First Aid	04 May 2005	49 Days	Person struck on nose with metal bar
Lost Time Incident	02 May 2005	51 Days	None reported since commencement of campaign.
Man Overboard Drill	18 Jun 2005	4 Days	None undertaken since commencement of campaign.
Near Miss	20 Jun 2005	2 Days	Failed compensator tensioner cable, release of compensator fluid.
Safety Meeting	19 Jun 2005	3 Days	Weekly Safety Meeting
Stop Cards	22 Jun 2005	0 Days	16 Stop Cards

Marine									
Weather ch	eck on 22 Jun	2005 at 240	Rig Support						
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (mt)
18.5km	15km/h	247deg	1012.00bar	12.0C°	0.5m	247deg	0m/sec	1	11.70
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather	Comments	2	12.79
0.5.1	0.5.1	4.50		005-1	0/	01		3	9.30
0.5deg	0.5deg	1.50m	2.5m	225deg	2m/sec	Ci	ear	4	9.21
Rig Dir.	Ris. Tension	VDL		Comments				5	10.89
251.0deg	0mt	214.05mt						6	11.79
201.0009	Ollik	211.001110						7	13.02
								8	11.88



DRILLING MORNING REPORT # 9 Casino-5 (22 Jun 2005)

Boats	Arrived (d	date/time)	Departed (date/time)	Status		Bulks	
Far Grip				Ocean Patriot	Item	Unit	Quantity
					Fuel	m3	454
					Drill Water	m3	500
					Potable Water	m3	327
					Gel	t	42
					Cement	t	38
					Barite	t	81
					KCI Brine	bbl	0
Pacific				Ocean Patriot	Item	Unit	Quantity
Wrangler					Fuel	m3	478.7
					Drill Water	m3	0
					Potable Water	m3	191
					Gel	t	0
					Cement	t	0
					Barite	t	0
					KCI Brine	bbl	950
Helicopte	r Movement						
Flight #	Time		Destination		Comment		Pax
1	09:56	Ocean Patriot					4
1	10:05	Essendon					1



		From:	Richard Buit	enhuis / Pat Kir	ng		
		OIM:	Barry Scott				
Well Data							
Country	Australia	M. Depth	1160.0m	Cur. Hole Size	311mm	AFE Cost	
Field	Casino	TVD	1160.0m	Casing OD	340mm	AFE No.	5746022
Drill Co.	DOGC	Progress	209.0m	Shoe TVD	654.8m	Daily Cost	
Rig	Ocean Patriot	Days from spud		F.I.T. / L.O.T.	0sg / 2.08sg	Cum Cost	
Wtr Dpth(LAT)	68.2m	Days on well	9.15			Planned TD	1788.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600	RIH with 31	11 mm (12-1/4") BI	HA.		
RT-ML	89.7m	Planned Op		11 mm (12-1/4") BI Section TD).	HA. Drill ahead 3	11 mm (12-1/4") ho	le from 1160 m to

Drilled 311 mm (12-1/4") hole from 951 m to 1160 m. Circulated hole clean. POH to surface to change bit and replace FEWD tools.

ormations								
Name	Top (MD)	Top (TVD)	Comment					

Operations For Period 0000 Hrs to 2400 Hrs on 23 Jun 2005

Phse	CIs (RC)	Op	From	То	Hrs	Depth	Activity Description
IH	TP (RE)	DA	0000	0030	0.50	951.0m	Lost pressure from seawater line. Opened bleed lines on each pump and pumped through to prime.
IH	Р	DA	0030	0100	0.50	956.0m	Drilled 311 mm (12-1/4") hole from 951 m to 956 m. [Avg parameters: 3975 l/min (1050 gal/min), 2 - 5 t (5-10 klb) WOB, 135 rpm, ROP 10 m/hr]
IH	TP (VE)	DA	0100	0115	0.25	956.0m	Cycled pumps to switch modes on Sperry FEWD tools. (Tools not pulsing)
IH	P	DA	0115	0215	1.00	966.0m	Drilled 311 mm (12-1/4") hole from 956 m to 966 m. Pumped 50 bbl PHG sweep and backreamed stand whilst troubleshooting Sperry FEWD tools. Tools not pulsing - no FEWD or directional surveys. Prepared to change out to KCI Mud. [Avg parameters: 3975 l/min (1050 gal/min), 2 - 5 t (5-10 klb) WOB, 125 rpm, ROP 10 m/hr]
IH	Р	DA	0215	0230	0.25	966.0m	Pumped 32 m3 (200 bbl) PHG sweep (cleared pit for mixing KCl Mud) whilst backreaming stand to reduce deviation.
IH	P	DA	0230	0345	1.25	994.0m	Drilled ahead 311 mm (12-1/4") hole from 966 m to 994 m, pumping 8 m3 (50 bbl) PHG sweep mid-stand, spotting 8 m3 (50 bbl) PHG and backreaming full stand prior to connection. [Avg parameters: 3785 l/min (1000 gal/min), 2 - 5 t (5-10 klb) WOB, 130 rpm, ROP 22 m/hr]
IH	P	DA	0345	0500	1.25	1009.0m	Drilled ahead 311 mm (12-1/4") hole from 994 m to 1009 m. Pumped 24 m3 (150 bbl) PHG (total left in pit) prior to switching to KCI mud. Reduced pump rate to kerb shaker losses. [Avg parameters: 3030 l/min (800 gal/min), 2 - 7 t (5-15 klb) WOB, 120 rpm, ROP 12 m/hr]
IH	P	DA	0500	1200	7.00	1083.0m	Drilled ahead 311 mm (12-1/4") hole from 1009 m to 1083m, [Avg parameters: 3710 l/min (980 gal/min), 9 - 14 t (20 - 30 klb) WOB, 140 rpm, ROP 10.5 m/hr] Displaced choke and kill lines to mud and conducted SCRs @ 1023mRT.
IH	Р	DA	1200	1500	3.00	1155.0m	Drilled ahead 311 mm (12-1/4") hole from 1083 m to 1155 m,
							[Avg parameters: 3785 l/min (1000 gal/min), 7 - 11 t (15 - 25 klb) WOB, 150 rpm, ROP 24 m/hr]
IH	Р	DA	1500	1515	0.25	1160.0m	Drilled ahead 311 mm (12-1/4") hole from 1155 m to 1160m, [Avg parameters: 3785 l/min (1000 gal/min), 7 - 10 t (15 - 25 klb) WOB, 150 rpm, ROP 20 m/hr]
IH	Р	CHC	1515	1600	0.75	1160.0m	Circulated 2 x bottoms up @ 3800 l/min (1000 gal/min) whilst rotating (100 rpm) and reciprocating pipe.
IH	Р	ТО	1600	1700	1.00	1160.0m	POH with 311 mm (12-1/4") BHA on 127 mm (5") drill pipe without pumps from 1140 m to 1050 m. Worked through tight section from 1080 m to 1050 m. Maximum overpull 27 t (60,000 lb).
IH	Р	TO	1700	1730	0.50	1160.0m	Pumped out tight stand from 1050 m to 1020 m. Maximum overpull 27 t (60,000 lb).
IH	Р	ТО	1730	2130	4.00	1160.0m	POH with 311 mm (12-1/4") BHA from 1020 m to surface, racking back same and plugging into Sperry tools for download. (Unable to download FEWD tools).
IH	TP (VE)	HT	2130	2400	2.50	1160.0m	Broke out Cameron CHSART from 273 mm (10-3/4") casing hanger, seal assembly and Dowell cement plug launcher and laid out (CHSART ball valve not opening fully).



DRILLING MORNING REPORT # 10 Casino-5 (23 Jun 2005)

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description				
							Picked up replacement Cameron CHSART and made up to 273 mm (10-3/4") casing hanger, seal assembly and Dowell cement plug launche. Laid out assembly.				
Opera	Operations For Period 0000 Hrs to 0600 Hrs on 24 Jun 2005										

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
IH	Р	HT	0000	0200	2.00	1160.0m	Laid out Sperry FEWD tools from 311 mm (12-1/4") BHA. Picked up new Sperry FEWD tools. [Download of FEWD data from 665 m - 1160 m successful]
IH	TP (VE)	HT	0200	0430	2.50	1160.0m	Attempted to confidence test and initialise Sperry FEWD tools. Directional tool not responding (damaged adaptor pin on directional sub). Laid out directional tool for repair on deck. Tested directional tool from previous run on deck (test failed). Made up repaired tool to FEWD & pulser.
IH	TP (VE)	HT	0430	0500	0.50	1160.0m	Confidence tested and initialised Sperry FEWD tools.
IH	Р	HT	0500	0600	1.00	1160.0m	Continued to RIH with 311 mm (12-1/4") BHA on 127 mm (5") drill pipe.

KCL/IDCAP	API FL:	5cm ³ /30m	CI:	42000	Solids:	9	Viscosity:	0sec/L
Pit 3	Filter-Cake:	1mm	K+C*1000:	8%	H2O:			0.015Pa/s 0.125MPa
15:30	HTHP-FI ·	0cm ³ /30m	Hard/Ca·	560	Oil·			0.048
								0.072
-	TITTII -Oake.	Onnin						8
37.00					•	9	Fann 100:	25
			PF:	0.1	PHPA:			34 41
								56
	Pit 3 15:30	Pit 3 Filter-Cake: 15:30 HTHP-FL: 1.22sg HTHP-Cake:	Pit 3 Filter-Cake: 1mm 15:30 HTHP-FL: 0cm³/30m 1.22sg HTHP-Cake: 0mm	Pit 3 Filter-Cake: 1mm K+C*1000: 15:30 HTHP-FL: 0cm³/30m Hard/Ca: 1.22sg HTHP-Cake: 0mm MBT:	Pit 3 Filter-Cake: 1mm K+C*1000: 8% 15:30 HTHP-FL: 0cm³/30m Hard/Ca: 560 1.22sg HTHP-Cake: 0mm MBT: 2.5 37.0C° PM: 0.4	Pit 3 Filter-Cake: 1mm K+C*1000: 8% H2O: 15:30 HTHP-FL: 0cm³/30m Hard/Ca: 560 Oil: 1.22sg HTHP-Cake: 0mm MBT: 2.5 Sand: 37.0C° PM: 0.4 pH:	Pit 3 Filter-Cake: 1mm K+C*1000: 8% H2O: 91% 15:30 HTHP-FL: 0cm³/30m Hard/Ca: 560 Oil: 0% 1.22sg HTHP-Cake: 0mm MBT: 2.5 Sand: 37.0C° PM: 0.4 pH: 9 PF: 0.1 PHPA: 0ppb	Pit 3 Filter-Cake: 1mm K+C*1000: 8% H2O: 91% PV: YP: 15:30 HTHP-FL: 0cm³/30m Hard/Ca: 560 Oil: 0% Gels 10s: Gels 10m: Fann 003: Fann 006: Fann 006: Fann 006: Fann 100:

Bit # 3				Wear	I	0′	1	D	L	В	G	O2	R
					4	5	5	WT	Α	Е	I	ER	FM
Size ("):	311mm	IADC#	415	N	ozzles		Drille	ed over la	ast 24 hrs	(Calculated	over Bit	Run
Mfr:	SMITH	WOB(avg)	0.68mt	No.	Size	Pr	rogre	SS	209.0n	Cum.	Progress		495.0m
Type:	Rock	RPM(avg)	120	1	20/32nd	J" OI	n Bot	tom Hrs	11.30	Cum.	On Btm H	rs	18.90h
Serial No.:	MR0049	F.Rate	3785lpm	3	18/32nd	AI "b	DC E	Orill Hrs	15.56	Cum	ADC Drill	Hrs	28.36h
Bit Model	GS04BDV	SPP	20684kPa			To	otal R	Revs	(Cum '	Total Revs		0
Depth In	665.0m	TFA	1.052			R	OP(a	vg)	18.50 m/h	r ROP(avg)	:	26.19 m/hr
Depth Out	1160.0m												

BHA # 3						
Weight(Wet)	3.18mt	Length	279.2m	Torque(max)	0Nm	D.C. (1) Ann Velocity
Wt Below Jar(Wet)	2.45mt	String	9.53mt	Torque(Off.Btm)	0Nm	D.C. (2) Ann Velocity
		Pick-Up	0mt	Torque(On.Btm)	0Nm	H.W.D.P. Ann Velocity
		Slack-Off	0mt			D.P. Ann Velocity
DUIA Dans Dansariation		044 (40 4/4)) TOLD'L 044 (4	0.4/4II) NID OLE I. 000	(OII) D D(0.044 (40.4/4!!) 01-1- 0

311 mm (12-1/4") TCI Bit, 311 mm (12-1/4") NB Stab, 203 mm (8") Pony DC, 311 mm (12-1/4") Stab, Sperry FEWD, Pulser, Directional, 203 mm (8") NMDC, 10 x 203 mm (8") DC, 203 mm (8") Jars, 2 x 203 mm (8") DC, BHA Run Description X/O, 15 x 127 mm (5") HWDP

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.33m	311mm	0mm	MR0049	Smith GS04BDV 3 x 18, 1 x 20 nozzles
Near Bit Stabiliser	2.11m	311mm	0mm	47602	c/w Ported Float
Pony Drill Collar	3.04m	210mm	0mm	49059	
Stab	2.08m	311mm	0mm	AIB1134	
FEWD Tools	13.16m	203mm	0mm	Various	FEWD - 90072859/XH1GVR Pulser - 10599305 Directional - 90074559
NM Pony Drill Collar	2.93m	207mm	0mm	47637	
Drill Collar	88.99m	200mm	0mm	Various	
Jar	9.20m	210mm	0mm	DAH02220	
Drill Collar	17.90m	202mm	0mm	Various	
X/O	1.09m	203mm	0mm	SANTOS	
HWDP	138.37m	162mm	0mm	Various	



Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Fuel	m3	0	26.3	0	239.8	Santos	5
Drill Water	m3	454.5	235.4	0	537.4	DOGC	47
Potable Water	m3	30	32.8	0	253.9	ESS	8
Gel	sx	0	577	0	1,122.0	Dowell	2
Cement	sx	0	0	0	2,272.0	Geoservices	6
Barite	sx	1044	335	0	1,932.0	Fugro	6
KCI Brine	bbl	0	0	0	0.0	Cameron	2
						MI	2
						Weatherford	4
						Sperry-Sun	3
						Expro	3
						Total	88

Casing	g		
OD	L.O.T. / F.I.T.	Csg Shoe (MD/TVD)	Cementing
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2
340	2.08sg / 0sg	654.8m / 654.8m	Lead: 258 bbl, 12.5 ppg, Class G Tail: 91 bbl, 15.8 ppg, Class G

HSE Summary			
Events	Date of Last	Days Since	Remarks
Abandon Drill	18 Jun 2005	5 Days	Abandon Drill
BOP Test	21 Jun 2005	2 Days	BOP Test
Environmental Incident	02 May 2005	52 Days	None reported since commencement of campaign.
Fire Drill	18 Jun 2005	5 Days	Fire Drill
First Aid	04 May 2005	50 Days	Person struck on nose with metal bar
Lost Time Incident	02 May 2005	52 Days	None reported since commencement of campaign.
Man Overboard Drill	18 Jun 2005	5 Days	Man Overboard Drill
Near Miss	20 Jun 2005	3 Days	Failed compensator tensioner cable, release of compensator fluid.
Safety Meeting	19 Jun 2005	4 Days	Weekly Safety Meeting
Stop Cards	23 Jun 2005	0 Days	7 Stop Cards

Marine									
Weather ch	eck on 23 Jun	2005 at 240	0					Rig Support	
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (mt)
18.5km	11km/h	090deg	1025.00bar	15.0C°	1.5m	090deg	0m/sec	1	11.61
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather	Comments	2	12.52
0.7deg	0.5deg	1.50m	3.5m	225deg	2m/sec	Clear		- 3 4	8.80 8.30
Rig Dir.	Ris. Tension	VDL		Comments				5	11.20
251.0deg	12.25mt	207.56mt						6	11.88
								7	13.02
								8	11.20

Boats	Arrived (date/time)	Departed (date/time)	Status	E	Bulks	
Far Grip			Ocean Patriot	Item	Unit	Quantity
				Fuel	m3	454
				Drill Water	m3	500
				Potable Water	m3	327
				Gel	t	42
				Cement	t	38
				Barite	t	81
				KCI Brine	bbl	0
Pacific			Ocean Patriot	Item	Unit	Quantity
Wrangler				Fuel	m3	478.7
				Drill Water	m3	0
				Potable Water	m3	191
				Gel	t	0
				Cement	t	0
				Barite	t	0
				KCI Brine	bbl	950



Helicopte	Movemen	t		
Flight #	Time	Destination	Comment	Pax
1	10:23	Ocean Patriot		11
1	10:38	Essendon		13



		From:	Richard Buite	enhuis / Pat Kir	ng		
		OIM:	Barry Scott				
Well Data							
Country	Australia	M. Depth	1343.0m	Cur. Hole Size	311mm	AFE Cost	
Field	Casino	TVD	1342.0m	Casing OD	340mm	AFE No.	5746022
Drill Co.	DOGC	Progress	183.0m	Shoe TVD	654.8m	Daily Cost	
Rig	Ocean Patriot	Days from spud		F.I.T. / L.O.T.	0sg / 2.08sg	Cum Cost	
Wtr Dpth(LAT)	68.2m	Days on well	10.13			Planned TD	1788.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600	POH with 3	311 mm (12-1/4") E	BHA for bit chang	e.	
RT-ML	89.7m	Planned Op	POH to sur (Section TI		v bit on 311 mm ((12-1/4") BHA. Dri	Il ahead to 1740 m

Changed out Sperry FEWD tools. RIH with 311 mm (12-1/4") BHA after bit trip. Drilled 311 mm (12-1/4") hole from 1160 m to 1343 m.

Formations											
Name	Top (MD)	Top (TVD)	Comment								

Operations For Period 0000 Hrs to 2400 Hrs on 24 Jun 2005

Phse	Cls (RC)	Op	From	То	Hrs	Depth	Activity Description
IH	Р	HT	0000	0200	2.00	1160.0m	Laid out Sperry FEWD tools from 311 mm (12-1/4") BHA. Picked up new Sperry FEWD tools. [Download of FEWD data from 665 m - 1160 m successful]
IH	TP (VE)	HT	0200	0400	2.00	1160.0m	Attempted to confidence test and initialise Sperry FEWD tools. Directional tool not responding (damaged adaptor pin on directional sub). Laid out directional tool for repair on deck. Tested directional tool from previous run on deck (test failed). Made up repaired tool to FEWD & pulser.
IH	TP (VE)	HT	0430	0500	0.50	1160.0m	Confidence tested and initialised Sperry FEWD tools.
IH	Р	TI	0500	0930	4.50	1160.0m	Continued to RIH with 311 mm (12-1/4") BHA on 127 mm (5") drill pipe to 1160 m. Washed in stands to obtain surveys @ 891.65 m, 1006.82 m & 1067.61 m. Maximum inclination 5.74 deg @ 1067.61 m. Washed last stand to bottom.
IH	Р	DA	0930	0945	0.25	1162.0m	Drilled 311mm (12-1/4") hole from 1160 m to 1162 m [Avg parameters: 3710 l/min (980 gal/min), 120 rpm, 3 t (7 klb) WOB]
IH	Р	DA	0945	2400	14.25	1342.0m	Drilled 311mm (12-1/4") hole from 1162 m to 1343 m [Avg parameters: 3710 l/min (980 gal/min), 1.5 - 7 t (3 - 15 klb) WOB, 120 - 180 rpm, ROP 12.5 m/hr]. Bit stalled out frequently - restricted ROP, varied RPM.

Operations For Period 0000 Hrs to 0600 Hrs on 25 Jun 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
IH	Р	DA	0000	0030	0.50	1355.0m	Drilled ahead 311 mm (12-1/4") hole from 1343 m to 1355 m
							[Avg parameters: 3785 l/min (1000 gal/min), 7 - 9 t (15 - 20 klb) WOB, 140 rpm, ROP 24 m/hr]
IH	Р	DA	0030	0100	0.50	1371.0m	Drilled ahead 311 mm (12-1/4") hole from 1355 m to 1371 m
							[Avg. parameters: 3785 l/min (1000 gal/min), 7 - 9 t (15 - 20 klb) WOB, 140 rpm, ROP 32 m/hr]
IH	Р	DA	0100	0230	1.50	1385.0m	Drilled ahead 311 mm (12-1/4") hole from 1371 m to 1385 m ROP down to 4 m/hr. [Avg. parameters: 3785 l/min (1000 gal/min), 7 - 15 t (15 - 25 klb) WOB, 100 - 140 rpm, ROP 9.3 m/hr]
IH	Р	DA	0230	0300	0.50	1387.0m	Drilled ahead 311 mm (12-1/4") hole from 1385 m to 1387 m ROP down to 2 m/hr. Possible bit balling - no change in ROP or torque with WOB or RPM. [Avg. parameters: 3785 l/min (1000 gal/min), 4.5 - 15 t (10 - 25 klb) WOB, 80 - 150 rpm, ROP 4 m/hr]
IH	Р	OA	0300	0315	0.25	1387.0m	Took weight off bit. Pumped 7 m3 (45 bbl) 8% KCl Brine lo-vis sweep to clear bit. Rotated string (140 rpm)
IH	Р	DA	0315	0430	1.25	1392.0m	Drilled ahead 311 mm (12-1/4") hole from 1387 m to 1392 m No change in ROP or torque with WOB or RPM. [Avg. parameters: 3785 l/min (1000 gal/min), 0 - 15 t (0 - 25 klb) WOB, 80 - 160 rpm, ROP 4 m/hr]
IH	Р	ТО	0430	0600	1.50	1392.0m	(IN PROGRESS) POH for bit change from 1392 m to surface, working tight hole from



DRILLING MORNING REPORT # 11 Casino-5 (24 Jun 2005)

Phse Cls		rom	То	Hrs	Depth	l				Ad	ctivity De	escription	on			
(1.10	,										00 lb ove	rpull) aı	nd pu	mping slu	g at 1140) m. Broke
WBM Data						out B	II #4KI	R, dow	nioadeo	d FEWD.						
					v/a.a	<u> </u>			.=	0 " '				Viscosity:		0sec
Mud Type: Sample-From:	KCL/Polymer Pit 3	API FL		15cm ³		CI:	_		45000	Solids:			10	PV:		0.011Pa
•		Filter-C			1mm	K+C*100			6%	H2O:			90%	YP: Gels 10s:		0.125MF 0.03
Time:	19:00	HTHP-		0cm ³	3/30m	Hard/Ca:			1040	Oil:			0%	Gels 10s. Gels 10m:		0.05
Weight:	1.22sg	HTHP-	Cake:		0mm	MBT:			5	Sand:				Fann 003:		
Temp:	39.0C°					PM:			0.1	pH:			8.4	Fann 006: Fann 100:		1
						PF:			0.9	PHPA:		(0ppb	Fann 200: Fann 300:		3
														Fann 600:		4
Bit # 4RR						Wear	I		01	D	L	Е	3	G	O2	R
Size ("):		311mm	IADC#		M223	No	zzles		Drill	led over la	ast 24 h	rs		alculated	d over Bi	t Run
Mfr:		SMITH	WOB(a	avg) 0.	54mt	No.	Size)	Progre	ess	183	3.0m C	cum. I	Progress		183.0m
Туре:		PDC	RPM(a	0,	150	7		32nd"	Ĭ	ttom Hrs	11			On Btm H	rs	11.20h
Serial No.:	•	JT6901	F.Rate	378	5lpm		1 7/	J=110	IADC	Drill Hrs	13	.80h C	cum I	ADC Drill	Hrs	13.80h
Bit Model	М	A89PX	SPP	2068	4kPa				Total F	Revs		0 C	um T	otal Revs	i	C
Depth In	1	160.0m	TFA	,	1.052				ROP(a	avg)	16.34	m/hr R	ROP(a	ıvg)		16.34 m/h
Depth Out																
Run Comment	t		Ran int	to Casino	4 but	POH due	to har	ng up ir	nside ca	asing.		'				
BHA # 4																
Weight(Wet)		2.27mt	Length	l		252	2.4m	Torque	e(max)		(Nm D	D.C. (1) Ann Ve	locity	
Wt Below Jar(Wet)	1.72mt	String			9.5	53mt	Torque	e(Off.Bt	im)	(Nm D	D.C. (2	2) Ann Ve	locity	
			Pick-U	р			0mt	Torque	e(On.Bt	tm)	(Nm F	I.W.D	.P. Ann V	'elocity	
			Slack-0	Off			0mt					С).P. A	nn Veloci	ty	
BHA Run Des	cription									ab, 203 mi						
				, Puiser, 5 x 127 n			mm (8	3") INIVII	JC, 7 X	203 mm (8") DC,	203 mm	n (8")	Jars, 2 x	203 mm ((8") DC,
	Equipme	ent			Leng	th (OD	I	D	Seria	al#			Com	ment	
Bit					0.52	2m 3	11mm		0mm	JT6901		Smith 7 x 14				
Near Bit Stabi	liser				2.1	1m 3	11mm		0mm	47602		c/w P				
Pony Drill Coll	ar				3.04	4m 2	10mm			49059						
Stab					2.08	8m 3 ⁻	11mm		0mm	AIB1134						
FEWD Tools					12.90	0m 20	03mm		0mm	Various		Pulse	r - 10	\9007782 56014 - DM9006		
NM Pony Drill	Collar				2.93	3m 20	07mm		0mm	47637		וופנו	uonal	ייייייייייייייייייייייייייייייייייייייי	J 1 TOUIVID	
Drill Collar	- 5				62.2		00mm			Various						
Jar					9.20		10mm			DAH0222	0					
Drill Collar					17.90		02mm			Various						
X/O HWDP					1.09		03mm			SANTOS						
					138.3	/m 10	62mm		0mm	Various						
Survey MD	Incl Deg	Cori	r. Az	TVE)	'V' Se	ct	Dog	gleg	N/S		E/W			Tool Typ	oe .
(m)	(deg)	(d	eg)	(m))	(m)		(deg	/30m)	(m)		(m)			7 F	
1067.61	5.7 5.5	249.4 253.0		1067.13		-16.46 -19.07		1.39		-16.46		7.41 15.08		MWD MWD		
1150.27 1178.55	5.5	253.0 254.5		1149.39 1177.54		-19.0 <i>7</i> -19.84		0.15 0.15		-19.07 -19.84		15.08 17.70		MWD		
1207.09	5.5	252.6		1205.94		-20.61		0.13		-20.61		20.33		MWD		
1294.00	5.4	250.7		1292.46		-23.21		0.07		-23.21		28.15		MWD		
1322.59	5.3	252.0		1320.93		-24.06		0.16		-24.06	-(30.67		MWD		



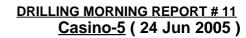
Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Fuel	m3	0	11.6	0	228.2	Santos	5
Drill Water	m3	120	22.5	0	634.9	DOGC	46
Potable Water	m3	26	34.3	0	245.6	ESS	8
Gel	sx	0	0	0	1,122.0	Dowell	2
Cement	sx	0	0	0	2,272.0	Geoservices	6
Barite	sx	0	126	0	1,806.0	Fugro	6
KCI Brine	bbl	0	0	0	0.0	Cameron	2
						MI	2
						Weatherford	4
						Sperry-Sun	3
						Expro	3
						Total	87

Casing	g		
OD	L.O.T. / F.I.T.	Csg Shoe (MD/TVD)	Cementing
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2
340	2.08sg / 0sg	654.8m / 654.8m	Lead: 258 bbl, 12.5 ppg, Class G Tail: 91 bbl, 15.8 ppg, Class G

HSE Summary			
Events	Date of Last	Days Since	Remarks
Abandon Drill	18 Jun 2005	6 Days	Abandon Drill
BOP Test	21 Jun 2005	3 Days	BOP Test
Environmental Incident	02 May 2005	53 Days	None reported since commencement of campaign.
Fire Drill	18 Jun 2005	6 Days	Fire Drill
First Aid	04 May 2005	51 Days	Person struck on nose with metal bar
Lost Time Incident	02 May 2005	53 Days	None reported since commencement of campaign.
Man Overboard Drill	18 Jun 2005	6 Days	Man Overboard Drill
Near Miss	20 Jun 2005	4 Days	Failed compensator tensioner cable, release of compensator fluid.
Safety Meeting	19 Jun 2005	5 Days	Weekly Safety Meeting
Stop Cards	24 Jun 2005	0 Days	7 Stop Cards

Marine Weather check on 24 Jun 2005 at 2400 Rig Support Visibility Wind Speed Wind Dir. Wave Height Wave Period Pressure Air Temp. Wave Dir. Anchors Tension (mt) 18.5km 15km/h 090deg 1028.00bar 15.0C° 0.2m 090deg 0m/sec 11.39 2 12.52 Roll Pitch Heave Swell Height Swell Dir. Swell Period Weather Comments 3 8.89 0.6deg 0.5deg 0.50m 1.5m 225deg 2m/sec Clear 4 8.48 Rig Dir. Ris. Tension VDL Comments 5 11.11 6 11.79 251.0deg 12.25mt 209.47mt 7 12.88 8 11.11

Boats	Arrived (date/time)	Departed (date/time)	Status	E	Bulks	
Far Grip			Ocean Patriot	Item	Unit	Quantity
				Fuel	m3	444
				Drill Water	m3	0
				Potable Water	m3	324
				Gel	t	42
				Cement	t	38
				Barite	t	0
				KCI Brine	bbl	0
Pacific			Portland	Item	Unit	Quantity
Wrangler				Fuel	m3	456.8
				Drill Water	m3	0
				Potable Water	m3	84
				Gel	t	0
				Cement	t	0
				Barite	t	0
				KCI Brine	bbl	0





Helicopte	Movement	1		
Flight #	Time	Destination	Comment	Pax
1	10:04	Ocean Patriot		8
1	10:15	Essendon		9



		From :	Richard Buit	enhuis / Pat Kir	ıg				
		OIM:	Barry Scott						
Well Data									
Country	Australia	M. Depth	1690.0m	Cur. Hole Size	311mm	AFE Cost			
Field	Casino	TVD	1687.0m	Casing OD	340mm	AFE No.	5746022		
Drill Co.	DOGC	Progress	347.0m	Shoe TVD	654.8m	Daily Cost			
Rig	Ocean Patriot	Days from spud		F.I.T. / L.O.T.	0sg / 2.08sg	Cum Cost			
Wtr Dpth(LAT)	68.2m	Days on well	11.13			Planned TD	1788.0m		
RT-ASL(LAT)	21.5m	Current Op @ 0600	Back reaming out of tight hole at 1500 m.						
RT-ML	89.7m	Planned Op		out of hole to 1392 244 mm (9-5/8") c		er trip. POH. Run &	cement 273 mm		

Drilled 311 mm (12-1/4") hole from 1343 m to 1392 m. POH for bit change. RIH with new bit. Drilled 311 mm (12-1/4") hole from 1392 m to 1690 m.

ormations	nations									
Name	Top (MD)	Top (TVD)	Comment							

Operations For Period 0000 Hrs to 2400 Hrs on 25 Jun 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
IH	Р	DA	0000	0030	0.50	1355.0m	Drilled ahead 311 mm (12-1/4") hole from 1343 m to 1355 m.
							[Avg parameters: 3785 l/min (1000 gal/min), 7 - 9 t (15 - 20 klb) WOB, 140 rpm, ROP 24 m/hr]
IH	Р	DA	0030	0100	0.50	1371.0m	Drilled ahead 311 mm (12-1/4") hole from 1355 m to 1371 m
							[Avg. parameters: 3785 l/min (1000 gal/min), 7 - 9 t (15 - 20 klb) WOB, 140 rpm, ROP 32 m/hr]
IH	P	DA	0100	0230	1.50	1385.0m	Drilled ahead 311 mm (12-1/4") hole from 1371 m to 1385 m ROP down to 4 m/hr. [Avg. parameters: 3785 l/min (1000 gal/min), 7 - 15 t (15 - 25 klb) WOB, 100 - 140 rpm, ROP 9.3 m/hr]
IH	P	DA	0230	0300	0.50	1387.0m	Drilled ahead 311 mm (12-1/4") hole from 1385 m to 1387 m ROP down to 2 m/hr. Possible bit balling - no change in ROP or torque with WOB or RPM. [Avg. parameters: 3785 l/min (1000 gal/min), 4.5 - 15 t (10 - 25 klb) WOB, 80 - 150 rpm, ROP 4 m/hr]
IH	Р	OA	0300	0315	0.25	1387.0m	Took weight off bit. Pumped 7 m3 (45 bbl) 8% KCl Brine lo-vis sweep to clear bit. Rotated string (140 rpm)
IH	P	DA	0315	0430	1.25	1392.0m	Drilled ahead 311 mm (12-1/4") hole from 1387 m to 1392 m No change in ROP or torque with WOB or RPM. [Avg. parameters: 3785 l/min (1000 gal/min), 0 - 15 t (0 - 25 klb) WOB, 80 - 160 rpm, ROP 4 m/hr]
IH	Р	ТО	0430	1000	5.50	1392.0m	POH for bit change from 1392 m to surface, working tight hole from 1313 m to 1284 m (Max 18 t / 40,000 lb overpull) and pumping slug at 1140 m. Broke out Bit #4RR, downloaded FEWD.
IH	Р	TI	1000	1400	4.00	1392.0m	Made up Bit #5 Reed Hycalog DSX104. RIH with 311 mm (12-1/4") BHA. Washed and reamed last stand to bottom.
IH	Р	DA	1400	2400	10.00	1690.0m	Drilled ahead 311 mm (12-1/4") hole from 1392 m - 1690 m
							[Avg. parameters: 3700 l/min (980 gal/min), 2 - 9 t (5 - 20 klb) WOB, 150-180 rpm, ROP 30 m/hr]

Operations For Period 0000 Hrs to 0600 Hrs on 26 Jun 2005

Opcia							
Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
IH	P	DA	0000	0130	1.50	1730.0m	Drilled ahead 311 mm (12-1/4") hole from 1690 m to 1730 m (Section TD - Tide Corrected) Survey: 6.06 deg Az 251.82 deg @ 1712.4 m. [Avg. parameters: 3700 l/min (980 gal/min), 2 - 9 t (5 - 20 klb) WOB, 160 rpm, ROP 26.7 m/hr]
IH	Р	CHC	0130	0300	1.50	1730.0m	Pumped 16 m3 (100 bbl) hi-vis sweep. Circulated 2 x bottoms up whilst boosting riser, reciprocating and rotating pipe. (Shakers Clean)
PC	P	WIN	0300	0600	3.00	1730.0m	(IN PROGRESS) Flow checked. Well static. POH with 311 mm (12-1/4") BHA from 1730 m to 1685 m. (Worked through tight hole from 1714 m to 1685 m (18 t / 40,000 lb overpull)). Attempted to POH from 1685 m. Pulling tight (18 t / 40,000 lb overpull). Backreamed out of hole from 1714 m to 1140. Attempted POH a@ 1390m - 18t (40



DRILLING MORNING REPORT # 12 Casino-5 (25 Jun 2005)

Phse Cls (RC)	Op F	rom	То	Hrs	Depti	า				А	ctivity Des	scripti	on			
(1.0)						k	lb overpu	ıll)								
WBM Data																
	CL/Polymer	API FL	:	40	m³/30m	CI:			45000	Solids:			12	Viscosity:		0sec/L
Sample-From:	Pit 3	Filter-C			1mm	_	*1000:		6%				88%	PV: YP:		0.017Pa/s 0.187MPa
Time:	21:00	HTHP-		00	m³/30m	Hard			1040				0%	Gels 10s:		0.167WFa
Weight:	1.25sg	HTHP-			0mm	MBT			6				070	Gels 10m: Fann 003:		0.072
Temp:	48.0C°		oake.		Ollilli	PM:	-		0.4				8	Fann 003: Fann 006:		11 14
- 1						PF:			0.4				_	Fann 100: Fann 200:		37
						FF.			0.1	FIIFA.			0ppb	Fann 300: Fann 600:		47 56 73
Bit # 4RR						We		1 1	O1 1	D BT	L S		B X	G I	O2 BU	R PR
Size ("):	3	311mm	IADC#	1	M223		Nozzle	s	Dri	lled over	ast 24 hr	s	(Calculated	d over Bi	t Run
Mfr:		SMITH	WOB(avg)	0.54mt	No.	Siz	:e	Progr	ess	49.	0m (Cum.	Progress		232.0m
Type:		PDC	RPM(a	avg)	150	7	14	1/32nd"	On Bo	ottom Hrs	4.0	00h	Cum.	On Btm H	rs	15.20h
Serial No.:		JT6901	F.Rate	3	785lpm				IADC	Drill Hrs	5.2	20h	Cum I	ADC Drill	Hrs	19.00h
Bit Model	M	A89PX	SPP	20	684kPa				Total	Revs		0 0	Cum 1	Total Revs		0
Depth In	11	160.0m	TFA		1.052				ROP(avg)	12.25 m	n/hr F	ROP(a	avg)		15.26 m/hr
Depth Out	13	392.0m														
Run Comment			Ran in	to Casi	ino 4 but	POH	due to h	ang up	nside c	asing.		·				
Bit # 5						We	ar	I	01	D	L	I	3	G	O2	R
Size ("):	3	311mm	IADC#				Nozzle	s	Dri	lled over	ast 24 hr	s	(Calculated	l over Bi	t Run
Mfr:	HYC	CALOG	WOB(avg)	0.68mt	No.	Siz	:e	Progr	ess	298.	0m (Cum.	Progress		298.0m
Type:		PDC	RPM(a	avg)	165	2	18	3/32nd"	On Bo	ottom Hrs	6.3	30h (Cum.	On Btm H	rs	6.30h
Serial No.:	1	110402	F.Rate	3	596lpm	3	16	6/32nd"	IADC	Drill Hrs	8.7	70h (Cum I	ADC Drill	Hrs	8.70h
Bit Model	D	SX104	SPP	22	063kPa				Total	Revs		0 (Cum 1	Total Revs		0
Depth In	13	392.0m	TFA		1.086				ROP(avg)	47.30 m	n/hr F	ROP(a	avg)		47.30 m/hr
Depth Out																
BHA # 4																
Weight(Wet)		2.27mt	Length	ı			252.4m	Torqu	ie(max)		10	l mV	D.C. (1) Ann Ve	locity	
Wt Below Jar(Wet	:)	1.72mt	String				9.53mt	Torqu	e(Off.B	tm)	10	۱ mس	D.C. ((2) Ann Ve	locity	
			Pick-L	lр			0mt	Torqu	ie(On.B	tm)	10	Nm I	H.W.E	D.P. Ann V	elocity	
			Slack-	Off			0mt					1	D.P. <i>A</i>	Ann Veloci	tv	
BHA Run Descript	tion		FEWD), Pulse	er, Direct	ional,	311 mm 203 mm					ny DC	C, 311	mm (12-1 Jars, 2 x	/ I/4") Stab	
	Equipme	ent	∧/U, 1	J X 121	7 mm (5" Leng	,	OD		ID	Seri	al#			Com	ment	
Bit	Ечирин					2m	311mr		0mm	JT6901	ui		n MA8	39PX	ол	
Near Bit Stabiliser					2.1	1m	311mr	n	0mm	47602		7 x 1		zles I Float		
Pony Drill Collar						4m	210mr		0mm	49059		J, 44 I	5,100	iout		
Stab						8m	311mr		0mm	AIB1134						
FEWD Tools					12.9	0m	203mr	n	0mm	Various		Pulse	er - 10	A9007782 056014 I - DM9006		
NM Pony Drill Col	lar				2.9	3m	207mr	n	0mm	47637		00	5. 101	5000		
Drill Collar					62.2		200mr		0mm	Various						
Jar					9.2	:0m	210mr	n	0mm	DAH0222	20					
Drill Collar					17.9		202mr		0mm	Various						
X/O						9m	203mr		0mm	SANTOS						
HWDP					138.3	7m	162mr	n	0mm	Various						



BHA # 5								
Weight(Wet)	2.27mt	Length		252.2m	Torque(max)		0Nm	D.C. (1) Ann Velocity
Wt Below Jar(Wet)	1.72mt	String		9.53mt	Torque(Off.E	Btm)	0Nm	D.C. (2) Ann Velocity
		Pick-Up		0mt	Torque(On.E	3tm)	0Nm	H.W.D.P. Ann Velocity
		Slack-Off		0mt				D.P. Ann Velocity
BHA Run Description		, Directional	, 203 mm (8				DC, 311 mm (12-1/4") Stab, Sperry nm (8") Jars, 2 x 203 mm (8") DC,	
Equip	ment		Length	OD	ID	Serial #		Comment
Bit			0.32m	311mm	0mm	110402		ed Hycalog DSX104 3 x 16, 2 x 18 zles
Near Bit Stabiliser			2.11m	311mm	0mm	47602	c/w	Ported Float
Pony Drill Collar			3.04m	210mm	0mm	49059		
Stab			2.08m	311mm	0mm	AIB1134		
FEWD Tools			12.90m	203mm	0mm	Various	Pul	WD - DA90077824/XH1GR8 ser - 1056014 ectional - DM900614800B
NM Pony Drill Collar			2.93m	207mm	0mm	47637		
Drill Collar			62.27m	200mm	0mm	Various		
Jar			9.20m	210mm	0mm	DAH02220		
Drill Collar			17.90m	202mm	0mm	Various		
			1.09m	203mm	0mm	SANTOS		
X/O								

Survey								
MD (m)	Incl Deg (deg)	Corr. Az (deg)	TVD (m)	'V' Sect (m)	Dogleg (deg/30m)	N/S (m)	E/W (m)	Tool Type
1492.55	5.4	251.3	1490.16	-28.93	0.21	-28.93	-45.66	MWD
1521.49	5.5	253.6	1518.96	-29.76	0.26	-29.76	-48.29	MWD
1550.14	5.6	251.9	1547.48	-30.58	0.17	-30.58	-50.94	MWD
1607.59	5.9	251.4	1604.64	-32.39	0.17	-32.39	-56.37	MWD
1636.21	5.9	253.0	1633.11	-33.28	0.17	-33.28	-59.16	MWD
1664.65	6.2	254.1	1661.39	-34.13	0.35	-34.13	-62.03	MWD

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Fuel	m3	200	12.7	0	415.5	Santos	7
Drill Water	m3	0	35	0	599.9	DOGC	46
Potable Water	m3	28	28.8	0	244.8	ESS	8
Gel	sx	0	0	0	1,122.0	Dowell	2
Cement	sx	0	0	0	2,272.0	Geoservices	6
Barite	sx	0	0	0	1,806.0	Fugro	6
KCI Brine	bbl	0	0	0	0.0	Cameron	2
						MI	2
						Weatherford	7
						Sperry-Sun	3
						Expro	3
						Total	92

Casing	g		
OD	L.O.T. / F.I.T.	Csg Shoe (MD/TVD)	Cementing
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2
340	2.08sg / 0sg	654.8m / 654.8m	Lead: 258 bbl, 12.5 ppg, Class G Tail: 91 bbl, 15.8 ppg, Class G



HSE Summary			
Events	Date of Last	Days Since	Remarks
Abandon Drill	18 Jun 2005	7 Days	Abandon Drill
BOP Test	21 Jun 2005	4 Days	BOP Test
Environmental Incident	02 May 2005	54 Days	None reported since commencement of campaign.
Fire Drill	18 Jun 2005	7 Days	Fire Drill
First Aid	04 May 2005	52 Days	Person struck on nose with metal bar
Lost Time Incident	02 May 2005	54 Days	None reported since commencement of campaign.
Man Overboard Drill	18 Jun 2005	7 Days	Man Overboard Drill
Near Miss	20 Jun 2005	5 Days	Failed compensator tensioner cable, release of compensator fluid.
Safety Meeting	19 Jun 2005	6 Days	Weekly Safety Meeting
Stop Cards	25 Jun 2005	0 Days	12 Stop Cards

Marine									
Weather ch	eck on 25 Jun	2005 at 2400)					Rig Support	
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (mt)
18.5km	22km/h	090deg	1031.00bar	15.0C°	0.2m	090deg	0m/sec	1	11.61
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather	Comments	2	12.70
0.6468	0 Edoa	0.50~	1.5	202464	2m/sec	CI	ear	3	8.98
0.6deg	0.5deg	0.50m	1.5m	203deg	Zm/sec	Ci	ear	4	8.80
Rig Dir.	Ris. Tension	VDL		Comments				5	11.02
251.0deg	12.25mt	209.47mt						6	11.79
201.0009	12.20111							7	12.79
								8	11.02

Boats	Arrived (date/time)	Departed (date/time)	Status		Bulks	
Far Grip			Ocean Patriot	Item	Unit	Quantity
				Fuel	m3	225
				Drill Water	m3	0
				Potable Water	m3	318
				Gel	t	42
				Cement	t	38
				Barite	t	0
				NaCl Brine	bbl	1500
Pacific			Portland	Item	Unit	Quantity
Wrangler				Fuel	m3	456.8
				Drill Water	m3	0
				Potable Water	m3	84
				Gel	t	0
				Cement	t	0
				Barite	t	0
				KCI Brine	bbl	0

				KCI Brine	bbl	0
Helicopter	Movement					
Flight #	Time	Destination	Com	ment		Pax
1	09:56	Ocean Patriot				5

10:08

Essendon



		From:	Richard Buit	enhuis / Pat Kir	ng			
		OIM:	Barry Scott					
Well Data								
Country	Australia	M. Depth	1730.0m	Cur. Hole Size	311mm	AFE Cost		
Field	Casino	TVD	1726.0m	Casing OD	340mm	AFE No.	5746022	
Drill Co.	DOGC	Progress	40.0m	Shoe TVD	654.8m	Daily Cost		
Rig	Ocean Patriot	Days from spud		F.I.T. / L.O.T.	0sg / 2.08sg	Cum Cost		
Wtr Dpth(LAT)	68.2m	Days on well	12.13			Planned TD	1788.0m	
RT-ASL(LAT)	21.5m	Current Op @ 0600	Running 244 mm (9-5/8") casing at 1100 m.					
RT-ML	89.7m	Planned Op	Complete running 244 mm (9-5/8") x 273 mm (10-3/4") casing. Cement in place. Runwear bushing. Make up 216 mm (8-1/2") BHA and RIH.					

Drilled 311 mm (12-1/4") hole from 1690 to 1730 m. Circulated clean. Backreamed out of hole to 1140 m. RIH for wiper trip. POH to surface. Retrieved wear bushing. Commenced running 244 mm (9-5/8") casing.

Formations										
Name	Top (MD)	Top (TVD)	Comment							

Operations For Period 0000 Hrs to 2400 Hrs on 26 Jun 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
IH	Р	DA	0000	0130	1.50	1730.0m	Drilled ahead 311 mm (12-1/4") hole from 1690 m to 1730 m (Section TD - Tide Corrected). Survey: 6.06 deg Az 251.82 deg @ 1712.4 m. [Avg. parameters: 3700 l/min (980 gal/min), 2 - 9 t (5 - 20 klb) WOB, 160 rpm, ROP 26.7 m/hr]
IH	Р	CHC	0130	0300	1.50	1730.0m	Pumped 16 m3 (100 bbl) hi-vis sweep. Circulated 2 x bottoms up whilst boosting riser, reciprocating and rotating pipe. (Shakers Clean)
PC	P	WIN	0300	0900	6.00	1730.0m	Flow checked. Well static. POH with 311 mm (12-1/4") BHA from 1730 m to 1685 m. (Worked through tight hole from 1714 m to 1685 m (18 t / 40,000 lb overpull)). Attempted to POH from 1685 m. Pulling tight (18 t / 40,000 lb overpull). Backreamed out of hole from 1714 m to 1140. Attempted POH a@ 1390m - 18t (40 klb overpull)
PC	Р	TI	0900	1015	1.25	1730.0m	RIH to section TD. No drag noted.
PC	Р	CHC	1015	1100	0.75	1730.0m	Circulated hole clean.
PC	Р	ТО	1100	1700	6.00	1730.0m	POH (no overpull), racked back BHA, downloaded Sperry FEWD tools and broke out bit.
PC	P	WH	1700	2000	3.00	1730.0m	Picked up wear bushing retrieval tool. Made up jetting sub and 1 stand of 127 mm (5") drill pipe below tool. Made up 1 stand of 127 mm (5") drill pipe and 476 mm (18-3/4") tool stabiliser to retrieval tool and RIH. Retrieved 476 mm (18-3/4") x 330 mm (13") wear bushing from wellhead. (32 t / 70,000 lb overpull) POH with wear bushing.
PC	Р	RRC	2000	2100	1.00	1730.0m	Held JSA - running casing. Rigged up to run 244 mm (9-5/8") casing.
PC	Р	OA	2100	2130	0.50	1730.0m	Picked up 244 mm (9-5/8") flow head landing joint and saver sub. Broke out saver sub. Laid out same.
PC	P	CRN	2130	2215	0.75	1730.0m	Picked up 244 mm (9-5/8") 70 kg/m (47 lb/ft) L80 BTC casing shoe joint. Filled with seawater to confirm floats clear. Picked up 244 mm (9-5/8") 70 kg/m (47 lb/ft) L80 BTC intermediate joint and made up same to casing shoe joint. Picked up 244 mm (9-5/8") 70 kg/m (47 lb/ft) L80 13Cr80 BTC x KS Bear float joint, confirmed floats clear and made up same to intermediate joint.
PC	Р	CRN	2215	2245	0.50	1730.0m	Rigged up TAM packer and single joint elevators.
PC	Р	CRN	2245	2400	1.25	1730.0m	RIH 6 joints 244 mm (9-5/8") 70 kg/m (47 lb/ft) 13Cr80 KS Bear casing from 38 m to 110 m. (Casing hung up at 94 m & 106 m. Worked through for approx. 30 mins)

Operations For Period 0000 Hrs to 0600 Hrs on 27 Jun 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
PC	P	CRN	0000	0130	1.50	1730.0m	RIH 10 joints 244 mm (9-5/8") 70 kg/m (47 lb/ft) 13Cr80 KS Bear casing from 110 m to 230 m, filling every 5 joints. Made up 244 mm (9-5/8") BS Bear x Vam Top X-Over and RIH to 241 m.
PC	Р	CRN	0130	0600	4.50	1730.0m	RIH 72 joints 244 mm (9-5/8") 70 kg/m (47 lb/ft) L80 Vam Top casing from 241 m to 1100 m, filling every 5 joints. Broke circulation at 340 mm (13-3/8") casing shoe and every 400 m thereafter.



WBM Data														
Mud Type: K	CL/Polymer	API FL	:	5cm ³ /30n	n CI:			46000	Solids:		10			0sec/L
Sample-From:	Pit 3	Filter-C	Cake:	1mn	n K+C	* 1000:		6.5%	H2O:		90%	PV: YP:		0.014Pa/s 0.172MPa
Time:	04:30	HTHP-	·FL:	0cm ³ /30n	n Hard	d/Ca:		1160	Oil:		0%	Gels 10s:		0.048
Weight:	1.25sg	HTHP-	Cake:	0mn	n MB1	Γ:		5	Sand:			Gels 10m: Fann 003:		0.072
Temp:	30.0C°				PM:			0	pH:		7.9	F 000:		12
·					PF:			0.05			0ppl	Fann 100:		33 42
					' ' '			0.00	, I I I I A.		оррі	Fann 300:		50
Comment		IDCAP	'-D 2.5 ppb									Fann 600:		64
Bit # 5					We	ear	I	01	D	L	В	G	O2	R
0: (11)		\d.d	1450"			N	1	1	BT	T	X	0-11-1	NO	TD
Size ("):		311mm	IADC#	0.54		Nozzl			lled over l			Calculate		
Mfr:	HYC	ALOG	WOB(avg)		,		ize	Progr				. Progress		338.0m
Type:		PDC	RPM(avg)	17			8/32nd	'	ottom Hrs			On Btm I		7.40h
Serial No.:		10402	F.Rate	3331lpr	-		6/32nd	-	Drill Hrs	1.3		IADC Dril		10.00h
Bit Model		SX104	_	22408kP				Total				Total Rev	S	0
Depth In		392.0m	TFA	1.08	5			ROP(avg)	36.36 n	n/hr ROP	(avg)		45.68 m/hr
Depth Out	17	730.0m												
BHA # 5														
Weight(Wet)	:	2.27mt	Length			252.2n	Torc	que(max)		0	Nm D.C.	(1) Ann V	elocity	
Wt Below Jar(Wet	·)	1.72mt	String			9.53m	t Toro	ue(Off.B	tm)	0	Nm D.C.	(2) Ann V	elocity	
			Pick-Up			0m	t Toro	μe(On.B	stm)	0	Nm H.W	D.P. Ann	Velocity	
			Slack-Off			0m	t				D.P.	Ann Velo	city	
BHA Run Descript			311 mm (1 FEWD, Pu X/O, 15 x	ılser, Dire 127 mm (ctional, 5") HW	203 mn DP		MDC, 7 x	x 203 mm ((8") DC, 2		') Jars, 2 x	203 mm	
	Equipme	nt		Le	ngth	OD		ID	Seria	al#			nment	
Bit				C	.32m	311m	m	0mm	110402		Reed Hye nozzles	calog DSX	104 3 x 1	6, 2 x 18
Near Bit Stabiliser	•			2	.11m	311m	ım	0mm	47602		c/w Porte	d Float		
Pony Drill Collar					.04m	210m		0mm	49059					
Stab					.08m	311m		0mm	AIB1134		FEWD I	24000770	040/140	.D.O
FEWD Tools				12	90m	203m	im	0mm	Various		Pulser - 1	DA900778 056014 al - DM900	_ ,,	
NM Pony Drill Col	lar			2	.93m	207m	ım	0mm	47637					
Drill Collar				62	.27m	200m	m	0mm	Various					
Jar				9	.20m	210m	ım	0mm	DAH0222	0				
Drill Collar					.90m	202n		0mm	Various					
X/O HWDP					.09m	203m		0mm	SANTOS					
				130	.37m	162m		0mm	Various					
Bulk Stocks								sonne	l On Boa	ard				
Name	Т	Unit	In	Used		Baland			Com	pany			Pa	ax
Fuel		n3	0	19.5	0							7		
Drill Water		n3	0	62.5	0							46		
Potable Water		n3 v	30	25.9	0	_						8		
					_	'								
Barite		X	0	399	0	1						6		
KCI Brine		bl	0	0	0	1	"	neron				2		
	s	х		399	_	2,272.0 1,407.0	Geo Fugi	services ro						

MI

Weatherford

Sperry-Sun

Expro

2

7

3

Total 92



Casing	9		
OD	L.O.T. / F.I.T.	Csg Shoe (MD/TVD)	Cementing
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2
340	2.08sg / 0sg	654.8m / 654.8m	Lead: 258 bbl, 12.5 ppg, Class G Tail: 91 bbl, 15.8 ppg, Class G

HSE Summary			
Events	Date of Last	Days Since	Remarks
Abandon Drill	26 Jun 2005	0 Days	Abandon Drill
BOP Test	21 Jun 2005	5 Days	BOP Test
Environmental Incident	02 May 2005	55 Days	None reported since commencement of campaign.
Fire Drill	26 Jun 2005	0 Days	Fire Drill
First Aid	04 May 2005	53 Days	Person struck on nose with metal bar
Lost Time Incident	02 May 2005	55 Days	None reported since commencement of campaign.
Man Overboard Drill	18 Jun 2005	8 Days	Man Overboard Drill
Near Miss	20 Jun 2005	6 Days	Failed compensator tensioner cable, release of compensator fluid.
Safety Meeting	26 Jun 2005	0 Days	Weekly Safety Meeting
Stop Cards	26 Jun 2005	0 Days	7 Stop Cards

Marine	Marine Marine									
Weather ch	eck on 26 Jun	2005 at 240		Rig Support						
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (mt)	
18.5km	15km/h	090deg	1029.00bar	18.0C°	0.1m	090deg	0m/sec	1	11.61	
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather	Comments	2	12.61	
0.5deg	0.3deg	0.50m	1.5m	225deg	2m/sec	CI	ear	3	8.80	
Rig Dir.	Ris. Tension	VDL		Comments				4 5	8.39 11.02	
251.0deg	12.25mt	205.02mt						6	11.79	
201.0009	12.201110	200.02111						7	13.02	
								8	11.20	

Boats	Arrived (date/time)	Departed (date/time)	Status	E	ulks	
Far Grip			Ocean Patriot	Item	Unit	Quantity
				Fuel	m3	215
				Drill Water	m3	0
				Potable Water	m3	315
				Gel	t	42
				Cement	t	38
				Barite	t	0
				NaCl Brine	bbl	1500
Pacific			Ocean Patriot	Item	Unit	Quantity
Wrangler				Fuel	m3	443.6
				Drill Water	m3	433
				Potable Water	m3	333
				Gel	t	43
				Cement	t	38
				Barite	t	43
				KCI Brine	bbl	0



		From:	Richard Buite	enhuis / Pat King					
		OIM:	Barry Scott						
Well Data									
Country	Australia	M. Depth	1730.0m	Cur. Hole Size	311mm	AFE Cost			
Field	Casino	TVD	1727.0m	Casing OD	244mm	AFE No.	5746022		
Drill Co.	DOGC	Progress	0m	Shoe TVD	1716.0m	Daily Cost			
Rig	Ocean Patriot	Days from spud		F.I.T. / L.O.T.	0sg / 0sg	Cum Cost			
Wtr Dpth(LAT)	68.2m	Days on well	13.13			Planned TD	1788.0m		
RT-ASL(LAT)	21.5m	Current Op @ 0600	RIH with 216 mm (8-1/2") BHA.						
RT-ML	89.7m	Planned Op		RIH with 216 mm (8-1/2") BHA. Drill out cement and shoe track. Drill ahead 216 mm (8-1/2") hole to TD.					

Continued to run 273 mm (10-3/4") x 244 mm (9-5/8") casing to TD. Cemented casing. Set seal assembly.

Formations										
Name	Top (MD)	Top (TVD)	Comment							

Operations For Period 0000 Hrs to 2400 Hrs on 27 Jun 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
PC	Р	CRN	0000	0130	1.50	1730.0m	RIH 10 joints 244 mm (9-5/8") 70 kg/m (47 lb/ft) 13Cr80 KS Bear casing from 110 m to 230 m, filling every 5 joints. Made up 244 mm (9-5/8") BS Bear x Vam Top X-Over and RIH to 241 m.
PC	Р	CRN	0130	0830	7.00	1730.0m	RIH 109 joints 244 mm (9-5/8") 70 kg/m (47 lb/ft) L80 Vam Top casing from 241 m to 1535 m, filling every 5 joints. Broke circulation at 340 mm (13-3/8") casing shoe and every 400 m thereafter.
PC	Р	CRN	0830	0900	0.50	1730.0m	Laid out Tam Packer. Made up 273 mm (10-3/4") x 244 mm (9-5/8") L80 Vam Top X-Over joint. Rigged up 273 mm (10-3/4") elevators. Made up Tam Packer.
PC	Р	CRN	0900	1000	1.00	1730.0m	Changed out FMS, RIH 7 joints 273 mm (10-3/4") 83 kg/m (55-1/2 lb/ft) L80 Vam Top casing to 1631 m.
PC	P	CRN	1000	1100	1.00	1730.0m	Broke circulation, laid out Tam Packer, picked up Cameron Casing Hanger & Seal Assembly Running Tool (CHSART) c/w 273 mm (10-3/4") seal assembly, casing hanger and Dowell Deep Sea Express plug basket. P/U Hookload 140.6 t (310 klb), S/O Hookload 139.2 t (307 klb).
PC	Р	CRN	1100	1130	0.50	1730.0m	RIH 273 mm (10-3/4") x 244 mm (9-5/8") casing and CHSART assembly on 127 mm (5") drill pipe to 1706 m.
PC	P	CRN	1130	1345	2.25	1730.0m	Worked and washed casing from 1706 m to 1719 m. Made several attempts to land out casing. Closed annular and bled-off same gradually to centralise casing hanger. Successfully landed out casing hanger (Casing hanger land off at 86.4 m. Casing Shoe at 1719.8 m). Opened annular.
PC	Р	CMC	1345	1415	0.50	1730.0m	Rigged down casing running equipment. Rigged up cementing lines. Held JSA for cement job whilst circulating @ 1520 l/min (400 gal/min).
PC	P	CMC	1415	1700	2.75	1730.0m	Cemented 273 mm (10-3/4") x 244 mm (9-5/8") casing. (Lead: 9.1 m3 / 57 bbl, 144 sx Class G, 1.5 sg / 12.5 ppg, TOC 1320 m) (Tail: 7.3 m3 / 46 bbl, 225 sx Class G, 1.9 sg /15.8 ppg, TOC 1570 m)
							Pumped 0.8 m3 (5 bbl) drill water. Pressure tested lines to 34500 kPa (5000 psi) Bottom plug release pressure: 20700 kPa (3000 psi) Pumped 0.8 m3 (5 bbl) drill water. Mixed and pumped Lead: 9.1 m3 (57 bbl) 1.5 sg (12.5 ppg) Class G Mixed and pumped Tail: 7.3 m3 (46 bbl) 1.9 sg (15.8 ppg) Class G Top plug release pressure: 20700 kPa (3000 psi) Displaced: 0.3 m3 (2 bbl) tail slurry, 3.2 m3 (20 bbl) mud with Dowell unit, 60 m3 (377 bbl) mud with rig pumps. Bumped plug to 7580 kPa (1100 psi) over final circulating pressure. Pressure tested casing to 27580 kPa (4000 psi) for 10 minutes. Floats held. Bled back 0.9 m3 (5.5 bbl).
PC	TP (VE)	СМС	1700	1800	1.00	1730.0m	Set down 9 t (20,000 lb) weight on CHSART to close internal ball valve and latched seal assembly (6 turns). Pressured up to 31000 kPa (4500 psi) down landing string using Dowell cement unit to set 273 mm (10-3/4") seal assembly (Volume pumped indicated pressuring up against casing). Attempted to pressure test seal assembly down kill line. No test. Suspect ball valve not closed.
PC	TP (VE)	CMC	1800	1830	0.50	1730.0m	Rigged down cementing lines and unlatched CHSART c/w seal assembly.
PC	TP	CMC	1830	1900	0.50	1730.0m	POH with CHSART c/w seal assembly and inspected same. Drill cuttings / plug debris



Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
	(VE)						noted on assembly.
PC	Р	CMC	1900	1930	0.50	1730.0m	Broke out Dowell Deep Sea Express plug basket / launcher and laid out same.
PC	TP (VE)	CMC	1930	2030	1.00	1730.0m	Serviced Cameron CHSART tool. Cycled tool on surface - OK.
PC	TP (VE)	CMC	2030	2200	1.50	1730.0m	Made up jetting sub below Cameron CHSART c/w seal assembly. RIH on 1 x 127 mm (5") drill pipe, 3 x 165 mm (6.5") drill collars and 2 x 127 mm (5") HWDP.
PC	TP (VE)	CMC	2200	2230	0.50	1730.0m	Landed out CHSART c/w seal assembly and latched (6 turns). Picked up 18 t (40,000 lb) overpull to open internal ball valve. Broke circulation to confirm ball valve open (Volume pumped indicated pressuring up against casing - OK) Unlatched CHSART c/w seal assembly and picked up out of wellhead. Jetted casing hanger and seal bore.
PC	P	CMC	2230	2400	1.50	1730.0m	Landed out and latched seal assembly (6 turns). Set down 2.3 t (5000 lb) to close ball valve. Pressured up to 31000 kPa (4500 psi) down landing string using Dowell cement unit to set 273 mm (10-3/4") seal assembly (Volume pumped indicated pressuring up against ball valve). Pressure tested seal assembly to 34500 kPa (5000 psi) down kill line - good test.

Operations For Period 0000 Hrs to 0600 Hrs on 28 Jun 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
PC	Р	WH	0000	0100	1.00	1730.0m	POH with Cameron CHSART after setting 273 mm (10-3/4") seal assembly. Lay out CHSART.
PC	Р	HT	0100	0300	2.00	1730.0m	Laid out Sperry FEWD tools / collars / stabilisers.
PC	Р	RS	0300	0330	0.50	1730.0m	Serviced TDS, block and dolly rolllers.
PC	Р	НВНА	0330	0400	0.50	1730.0m	Rigged up to run 216 mm (8-1/2") BHA. Picked up Sperry FEWD, directional and pulser tools, stabilisers and pony drill collars.
PC	Р	HBHA	0400	0530	1.50	1730.0m	Commenced making up 216 mm (8-1/2") BHA.
PC	Р	HT	0530	0600	0.50	1730.0m	Confidence tested and initialised Sperry FEWD tools.

WBM Data									
Mud Type:	Flo Pro	API FL:	5cm ³ /30m	CI:	144000	Solids:	13	Viscosity:	0sec/L
Sample-From:	Pit	Filter-Cake:	1mm	K+C*1000:	6%	H2O:	87%	PV: YP:	0.014Pa/s 0.158MPa
Time:	16:00	HTHP-FL:	0cm ³ /30m	Hard/Ca:	80	Oil:	0%	Gels 10s: Gels 10m:	0.067 0.081
Weight:	1.25sg	HTHP-Cake:	0mm	MBT:	0	Sand:		Fann 003:	14
Temp:	24.0C°			PM:	0	pH:	9.9	Fann 006: Fann 100:	17 32
				PF:	0.2	PHPA:	0ppb	Fann 200:	40
								Fann 300:	47
								Fann 600:	61

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Fuel	m3	0	22.4	0	373.6	Santos	7
Drill Water	m3	0	14.5	0	522.9	DOGC	46
Potable Water	m3	28	25.8	0	251.1	ESS	8
Gel	sx	0	0	0	1,122.0	Dowell	2
Cement	sx	0	587	0	1,685.0	Geoservices	6
Barite	sx	0	0	0	1,407.0	Fugro	6
KCI Brine	bbl	0	0	0	0.0	Cameron	2
						MI	2
						Weatherford	7
						Sperry-Sun	3
						Expro	3
						Total	92

Casin	g			
OD	L.O.T. / F.I.T.	Csg Shoe (MD/TVD)	Cementing	
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2	
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2	
340	2.08sg / 0sg	654.8m / 654.8m	Lead: 258 bbl, 12.5 ppg, Class G Tail: 91 bbl, 15.8 ppg, Class G	
244	0sg / 0sg	1719.8m / 1716.0m	Lead: 9 m3 (57 bbl) 1.5 sg (12.5 ppg) Class G Tail: 7.5 m3 (47 bbl) 1.9 sg (15.8 ppg) Class G	



HSE Summary			
Events	Date of Last	Days Since	Remarks
Abandon Drill	26 Jun 2005	1 Day	Abandon Drill
BOP Test	21 Jun 2005	6 Days	BOP Test
Environmental Incident	02 May 2005	56 Days	None reported since commencement of campaign.
Fire Drill	26 Jun 2005	1 Day	Fire Drill
First Aid	04 May 2005	54 Days	Person struck on nose with metal bar
Lost Time Incident	02 May 2005	56 Days	None reported since commencement of campaign.
Man Overboard Drill	18 Jun 2005	9 Days	Man Overboard Drill
Near Miss	20 Jun 2005	7 Days	Failed compensator tensioner cable, release of compensator fluid.
Safety Meeting	26 Jun 2005	1 Day	Weekly Safety Meeting
Stop Cards	26 Jun 2005	1 Day	6 Stop Cards

Marine									
Weather che	eck on 27 Jun	2005 at 2400	0					Rig Support	
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (mt)
18.5km	0km/h	000deg	1031.00bar	14.0C°	0.1m	000deg	0m/sec	1	11.61
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather	Comments	2	12.61
0.5deg	0.3deg	0.50m	1.0m	225deg	2m/sec	Cl	ear	3	8.80
0.0009	0.0d0g	0.00111	1.0111	LLUGUG	2.11,000	O.	oui	4	8.39
Rig Dir.	Ris. Tension	VDL		Comments				5	11.02
251.0deg	12.25mt	184.43mt						6	11.79
								7	13.02
								8	11.20

Boats	Arrived (date/time)	Departed (date/time)	Status	F	Bulks	
Far Grip			Portland	Item	Unit	Quantity
				Fuel	m3	207
				Drill Water	m3	0
				Potable Water	m3	312
				Gel	t	42
				Cement	t	38
				Barite	t	0
				NaCl Brine	bbl	700
Pacific			Ocean Patriot	Item	Unit	Quantity
Wrangler				Fuel	m3	433.6
				Drill Water	m3	433
				Potable Water	m3	328
				Gel	t	43
				Cement	t	38
				Barite	t	43
				KCI Brine	bbl	0



		From:	Ron King / Je	eff Thomson			
		OIM:	Barry Scott				
Well Data							
Country	Australia	M. Depth	1806.0m	Cur. Hole Size	216mm	AFE Cost	
Field	Casino	TVD	1802.0m	Casing OD	244mm	AFE No.	5746022
Drill Co.	DOGC	Progress	76.0m	Shoe TVD	1716.0m	Daily Cost	
Rig	Ocean Patriot	Days from spud	12.21	F.I.T. / L.O.T.	0sg / 0sg	Cum Cost	
Wtr Dpth(LAT)	68.2m	Days on well	14.13			Planned TD	1788.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600	Displacing	the hole to CaCl2 bi	rine at 1650mR	Т	
RT-ML	89.7m	Planned Op	Complete completion	displacing the hole to	o CaCl2 brine a	t 1650mRT, POH, r	un lower

Laid out seal assembly, laid out 311mm (12 1/4") BHA, serviced top drive, picked up 216mm (8 1/2") BHA, loaded MWD, RIH to 1643mRT, washed to TOC @ 1694mRT, Drilled plugs, float, cement and shoe, cleaned out rathole to 1730mRT, Displaced hole to Flo Pro, displaced lines to Flo Pro, Conducted SCRs, drilled to 1806mRT, circ B/U, wiper tripped to shoe, circulated hole clean, POH to 947mRT.

Operations For Period 0000 Hrs to 2400 Hrs on 28 Jun 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
PC	Р	WH	0000	0100	1.00	1730.0m	POH with Cameron CHSART after setting 273 mm (10-3/4") seal assembly. Laid out CHSART.
PC	Р	HT	0100	0300	2.00	1730.0m	Laid out Sperry FEWD tools / collars / stabilisers.
PC	Р	RS	0300	0330	0.50	1730.0m	Serviced TDS, block and dolly rolllers.
PC	Р	НВНА	0330	0400	0.50	1730.0m	Rigged up to run 216 mm (8-1/2") BHA. Picked up Sperry FEWD, directional and pulser tools, stabilisers and pony drill collars.
PC	Р	HBHA	0400	0530	1.50	1730.0m	Commenced making up 216 mm (8-1/2") BHA.
PC	Р	HT	0530	0600	0.50	1730.0m	Confidence tested and initialised Sperry FEWD tools.
PH	Р	TI	0600	1000	4.00	1730.0m	RIH with BHA, tested MWD, RIH to 1643mRT
PH	Р	TI	1000	1030	0.50	1730.0m	Washed in hole from 1643mRt at 1500 l/min (400 gpm) circulating with old mud. Tagged TOC at 1694mRT.
PH	Р	DFS	1030	1145	1.25	1730.0m	Drilled cement plugs and float collar, varying drilling parameters. WOB 1-2 t (2-5 klb), RPM 50-90, 2300 l/min 600 gpm, 16mPa (2350 psi).
PH	P	DFS	1145	1400	2.25	1730.0m	Drilled shoetrack cement and float shoe and cleaned out rathole to 1730mRT with old mud. WOB 1-4 t (2-8 klb), RPM 90, 2500 l/min (650 gpm), 17 mPa (2500 psi). Displaced the hole with 1.24 sg (10.3ppg) Flo-Pro mud. Displaced booster, choke and kill lines with Flo-Pro mud. Conducted SCRs: #1 30spm / 360psi , 40 spm / 450 psi, 50 spm / 550 psi
PH	Р	DA	1400	1900	5.00	1806.0m	Drilled 216mm (8 1/2") production hole from 1730mRT - 1806mRT (Total Depth).
PH	Р	CHC	1900	1945	0.75	1806.0m	Circulated bottoms-up, flow checked well.
PH	Р	TO	1945	2015	0.50	1806.0m	POH to 1700mRT. Drag 0-9 t (0 - 20 klb)
PH	Р	TI	2015	2030	0.25	1806.0m	RIH to 1806mRT, observed no fill.
PH	Р	CHC	2030	2200	1.50	1806.0m	Circulated the hole until shakers were clean while boosting the riser. Rounded cement fragments observed over the shakers.
PH	Р	TO	2200	2400	2.00	1806.0m	Conducted a flow check at TD for 15 minutes. POH from 1806mRT to 947mRT.

Operations For Period 0000 Hrs to 0600 Hrs on 29 Jun 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
PH	Р	TO	0000	0100	1.00	1806.0m	POH to 500mRT
PH	Р	TO	0100	0330	2.50	1806.0m	RIH to TD at 1806mRT after discussions with town.
PH	P	OA	0330	0430	1.00	1806.0m	Spotted 50 bbls of new Flo Pro 10.3 ppg mud on bottom. Pumped: 8 m3 (50 bbls) new Flo Pro mud 8 m3 (50 bbls) CaCl2 high vis pill Displaced with 6.2 m2 (39 bbls) CaCl2 Brine
PH	Р	TO	0430	0530	1.00	1806.0m	POH to 1650mRT, waited to finish mixing completion brine
PH	Р	OA	0530	0600	0.50	1806.0m	Displaced hole with 67.6 m3 (425 bbls) of CaCL2 brine.



WBM Data																
Mud Type:	Flo Pro	API FL		5cm ³ /30r	n CI:			1.4	8000	Solids:			14	Viscosity:		0sec/l
Sample-From:	Pit 3	Filter-C				*4000								PV:		0.014Pa/
Time:	19:30			1mr		K+C*1000:		,	6.5%			86%				0.153MP 0.05
		HTHP-		0cm ³ /30r		Hard/Ca:			120			(U70 I	Gels 10m:		0.06
Weight:	1.23sg	HTHP-	Cake:	0mr					2.5	Sand:				Fann 003: Fann 006:		1
Temp:	43.0C°				PM:				8.0	pH:		9	9.7	Fann 100:		3
					PF:				0.1	PHPA:		0p		Fann 200:		3
														Fann 300: Fann 600:		4
										- I						
Bit # 6					We	ear	I	С	D 1	D	L	В		G	O2	R
Size ("):		216mm	IADC#			Nozz	les		Dril	led over la	ast 24 hr	s	C	alculated	over Bit	Run
Mfr:		REED	WOB(avg)	0.23m	nt No.		Size	F	Progre					rogress		76.0m
Type:		PDC	RPM(avg)	12					_	ttom Hrs				n Btm Hr	S	3.70h
Serial No.:	1	110996	F.Rate	2650lpr				ZIIU		Drill Hrs				DC Drill F		5.90h
Bit Model		SX104	SPP	0kP			. 5, 0	/ _	rotal I		3.0			otal Revs	-	0.001
Depth In		730.0m	TFA	0.91					ROP(a		20.54 m)P(av		:	- 20.54 m/hr
Depth Out		0m							- (37				3/		
BHA # 6																
Weight(Wet)	ht(Wet) 1.13mt Length					265.6	m 1	Torque(max) 16			16.31	Nm D.0	C. (1) Ann Vel	ocity	
Wt Below Jar(Wet)	` '					11.11n	nt 7	Torque(0	Off.Bt	tm)	5.41	Nm D.0	C. (2) Ann Vel	ocity	
, ,			Pick-Up			11.11n		Torque(0			10.9			P. Ann Ve	-	
			Slack-Off			11.11n		. 0. 900(02	,				nn Velocit	•	
	Equipme	ent	Oldok Oli	Le	ngth	OD		ID		Seria	al #	J.,	.,,,	Comr	-	
Bit	1-1-).23m	216r		Or	mm	110960						
Near Bit Stabiliser					2.40m	167r		89r		DA6028						
Pony Drill Collar					5.04m	170r		70r		DA6024						
MWD Tools				9	9.76m	171r	nm	76r	mm	DM4007		DGR E	WR	DDR SLB	;	
MWD Tools				2	2.79m	171r	nm	76r	mm	152535		Directio	nal s	sensor		
MWD Tools				3	3.05m	171r	nm	76r	mm	10599301		Pulser				
8.5in String Stab				1	1.78m	170r	nm	71r	mm	92566		8.5"				
6.5in DC					1.44m	165r			mm							
6.5in Jars					9.24m	165r		70r		WDAH029	928					
6.5in DC					3.56m	165r		73r								
5in HWDP Bulk Stocks				130	3.37m	127r		76r		On Boa	ord					
Name		Unit	In	Used	Adiust	Balan		Persoi	nnei		ipany				Pax	<u> </u>
Fuel	n	n3	0	29	0			Santos			.r.~)			7		=
Drill Water		n3	150	43	0			DOGC						46		
Potable Water		n3	32	32	0			ESS						8		
Gel	s	X	0	0	0	1,122.		Dowell						2		
Cement	s	X	0	0	0	1,685.	0 0	Geoserv	/ices					6		
Barite	s	X	0	0	0	1,407.	0 F	Fugro						6		
KCI Brine	b	bl	0	0	0	0.	_	Camero	n					3		
								MI						2		
								Weather						7		
								Sperry-S Expro	oun					3 5		
								⊑xριο Baker Ο	il Too	nle				1		
							<u> </u>	Danei U	11 100	nio.				- 1		

Total 96



Casing	g			
OD	L.O.T. / F.I.T.	Csg Shoe (MD/TVD)	Cementing	
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2	
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2	
340	2.08sg / 0sg	654.8m / 654.8m	Lead: 258 bbl, 12.5 ppg, Class G Tail: 91 bbl, 15.8 ppg, Class G	
244	0sg / 0sg	1719.8m / 1716.0m	Lead: 9 m3 (57 bbl) 1.5 sg (12.5 ppg) Class G Tail: 7.5 m3 (47 bbl) 1.9 sg (15.8 ppg) Class G	

HSE Summary			
Events	Date of Last	Days Since	Remarks
Abandon Drill	26 Jun 2005	2 Days	Abandon Drill
BOP Test	21 Jun 2005	7 Days	BOP Test
Environmental Incident	02 May 2005	57 Days	None reported since commencement of campaign.
Fire Drill	26 Jun 2005	2 Days	Fire Drill
First Aid	04 May 2005	55 Days	Person struck on nose with metal bar
Lost Time Incident	02 May 2005	57 Days	None reported since commencement of campaign.
Man Overboard Drill	18 Jun 2005	10 Days	Man Overboard Drill
Near Miss	20 Jun 2005	8 Days	Failed compensator tensioner cable, release of compensator fluid.
Safety Meeting	26 Jun 2005	2 Days	Weekly Safety Meeting
Stop Cards	28 Jun 2005	0 Days	2 Stop Cards

Marine									
Weather ch	eck on 28 Jun	2005 at 2400	Rig Support						
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (mt)
18.5km	15km/h	225deg	1031.00bar	13.0C°	0.3m	225deg	1m/sec	1	11.39
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather	Comments	2	12.29
0.5deg	0.3deg	0.50m	1.5m	225deg	2m/sec	CI	ear	3	12.20
0.5dcg	0.5dcg	0.50111	1.5111	225acg	211/300	Oi.	cai	4	8.30
Rig Dir.	Ris. Tension	VDL		Comments				5	11.02
251.0deg	12.25mt	171.91mt						6	12.11
								7	13.38
								8	11.70

Boats	Arrived (date/time)	Departed (date/time)	Status	В	Bulks	
Far Grip			Ocean Patriot	Item	Unit	Quantity
				Fuel	m3	394
				Drill Water	m3	527
				Potable Water	m3	420
				Gel	t	84
				Cement	t	76
				Barite	t	0
				NaCl Brine	bbl	700
Pacific			Ocean Patriot	Item	Unit	Quantity
Wrangler				Fuel	m3	423.5
				Drill Water	m3	333
				Potable Water	m3	263
				Gel	t	43
				Cement	t	38
				Barite	t	43
				KCI Brine	bbl	0
Helicopter	Movement			_		

Destination

riigiit#	Time	Destination	Comment	rax
1	10:55	Ocean Patriot		8
1	11:09	Essendon		4



		From:	Ron King,Mi	ke Andronov							
		OIM:	Barry Scott								
Well Data											
Country	Australia	M. Depth	1806.0m	Cur. Hole Size	216mm	AFE Cost					
Field	Casino	TVD	1802.0m	Casing OD	244mm	AFE No.	5746022				
Drill Co.	DOGC	Progress	0m	Shoe TVD	1716.0m	Daily Cost					
Rig	Ocean Patriot	Days from spud	13.21	F.I.T. / L.O.T.	0sg / 0sg	Cum Cost					
Wtr Dpth(LAT)	68.2m	Days on well	15.13			Planned TD	1788.0m				
RT-ASL(LAT)	21.5m	Current Op @ 0600	POOH with	POOH with running tools after setting packer.							
RT-ML	89.7m	Planned Op	RIH to expansion assembly.	RIH to expand ESS and POOH. RIH with Casing Scraper and Riser cleaning							

RIH to TD to spot 7.9m3 (50 bbls) new mud to bottom and displace well with CaCl2. POOH and layed down BHA. RIH lower completion, set packer and POOH running tools.

Formations											
Name	Top (MD)	Top (TVD)	Comment								

Operations For Period 0000 Hrs to 2400 Hrs on 29 Jun 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
PH	Р	ТО	0000	0100	1.00	1806.0m	POH to 500mRT
PH	Р	TI	0100	0130	0.50	1806.0m	Discussed forward plan with town.
PH	Р	TO	0130	0330	2.00	1806.0m	RIH to TD at 1806mRT.
PH	P	OA	0330	0430	1.00	1806.0m	Spotted 50 bbls of new Flo Pro 10.3 ppg mud on bottom. Pumped: 8 m3 (50 bbls) new Flo Pro mud 8 m3 (50 bbls) CaCl2 high vis pill Displaced with 6.2 m2 (39 bbls) CaCl2 Brine
PH	Р	TO	0430	0530	1.00	1806.0m	POH to 1650mRT, waited to finish mixing completion brine
PH	Р	OA	0530	0600	0.50	1806.0m	Displaced hole with 67.6 m3 (425 bbls) of CaCl2 brine.
PH	Р	OA	0600	1400	8.00	1806.0m	Flow Checked and POH from 1650mRT to BOP's. Flow checked for 15 mins. POH with BHA and laid down same.
PH	Р	OA	1400	1500	1.00	1806.0m	Functioned BOP shear rams and 273mm (10-3/4") rams. Held JHA for RU and Running of 140mm (5-1/2") Expandable Sand Screens.
СТВ	Р	RIC	1500	1700	2.00	1806.0m	PU Expandable Bottom Connector (LC01-01). MU 6x11.58m 140mm (5-1/2") Mk-II ESS joints (150 micron weave).
СТВ	P	RCM	1700	1730	0.50	1806.0m	RU handling gear for 194 mm (7-5/8"), 13Cr80 FOX tubing. MU 140mm (5.5") Expandable Top Connector (LC02-02) and 1xjoint of 194 mm (7-5/8"), 44.2 kg/m (29.7 lbs/ft) 13Cr80 Fox Tubing. Performed flow check prior to 140mm (5.5") ESS entering BOP.
СТВ	P	RIC	1730	1830	1.00	1806.0m	Continued to RIH with additional 2xjoints of 194 mm (7-5/8"), 44.2 kg/m (29.7 lbs/ft) 13Cr80 Fox Tubing as per lower completion tally. RU 127 mm (5") drill pipe elevators. Held JSA for MU and running lower completion EXP packer. PU and RIH EXP packer sub assembly (LC03-01).
СТВ	Р	RIC	1830	2400	5.50	1806.0m	RIH lower completion assembly on 127 mm (5") HWDP and DP. Drifted DP to 51 mm (2") while RIH.

Operations For Period 0000 Hrs to 0600 Hrs on 30 Jun 2005

Phse	Cls (RC)	Op	From	То	Hrs	Depth	Activity Description
СТВ	Р	RIC	0000	0145	1.75	1806.0m	Continued to RIH with lower completion at max rate of 10 m/min. PU weight 95MT (210 klbs), Slack off weight 99.8MT (220 klbs) as 140mm (5.5") ESS entering 244mm (9-5/8") casing shoe. Reduce running speed of lower completion to 6m/min in open hole. PU weight 102MT (225 klbs), Slack off weight 102MT (225 klbs). Tagged TD (1806mRT) with 2.3MT (5 klbs). Pull back to setting depth.
СТВ	Р	RPK	0145	0315	1.50	1806.0m	Held JSA on setting the EXP Packer. Broke out 127mm (5") DP and dropped 44mm (1-3/4") brass ball, MU and chased with mud at 0.3m3/min (2bpm). Pumped 7.1m3 (45 bbls) without catching pressure - stopped pumping. Pumped at higher rates and immediately caught pressure - increased pressure to 20,685kPa (3,000 psi) with 0.2m3 (1 bbl) and held for 15 minutes. Performed 6.8MT (15 klbs) overpull above neutral weight and set down 6.8MT (15 klbs) below neutral weight.



DRILLING MORNING REPORT # 16 Casino-5 (29 Jun 2005)

Phse	Cls (RC)	Ор	Fron	n	То	Hrs	Depth	า						Acti	vity De	scrip	otion			
СТВ	P (RC)	PT	0315	04	415	1.00	1806.0					rams a	and _l	pressure	tested	pack	er elem	nents with	6895kPa	(1000 psi)
								(minut ed BC		e rams	and	d released	l runnin	g to	ols from	packer. F	POOH wit	n running
										Packe	r set a	t 1686	.35 r	mRT. ES	S at 17	28.0 [°]	7mRT-1	1797.07m	RT.	
СТВ	Р	RIC	0415	06	600	1.75	1806.0r	4	1.8m3	30b	bl) 1.₄	4sg (1	2 pp	Lined up og) mud s depth 12	lug.		and flov	v checked	l. MU and	pumped
WBM	Data		-				'							·						
Mud Typ	e: CaCl	2 Comple		PI FL:		00	:m³/30m	CI:				146000	0 S	Solids:			0	Viscosity:		0sec/L
	-		Bri Fi	lter-C	ake:		0mm	K+C	*1000):		0%	6 Н	H2O:			0%	PV: YP:		0Pa/s 0MPa
Sample	-From:		it 4	THP-I	FL:	00	:m³/30m	Hard	d/Ca:			(0 C	Oil:			0%	Gels 10s:		0
Time:		05:		THP-0	Cake:		0mm	МВТ				(0 s	Sand:				Gels 10m: Fann 003:		0
Weight:		1.22	2sg		ouo.		0	PM:) Н:			9.7	Fann 006:		0
Temp:		0	C°															Fann 100:		0
								PF:				(0 P	PHPA:			0ppb	Fann 200: Fann 300:		0
																		Fann 600:		0
Bit #	<u> </u>							We	ear	1		01		D	<u> </u>		В	G	O2	R
DIL#	O								, u.	1		1		NO	A		E	ı	ER	TD
Size (")	:		216	mm	IADC	#			No	zzles		Dr	illed	d over las	t 24 hr	s	(Calculated	d over Bit	Run
Mfr:			RE	EED	WOB	(avg)	0mt	No.		Size		Prog	ress	3		0m	Cum.	Progress		76.0m
Type:			F	DC	RPM(avg)	0	2		16/	32nd"	On B	Botto	m Hrs		0h	Cum.	On Btm H	rs	3.70h
Serial N	No.:		110	996	F.Rat	е	0lpm	3			32nd"	IADO	C Dri	ill Hrs		0h	Cum I	ADC Drill	Hrs	5.90h
Bit Mod	lel		DSX	104	SPP		0kPa					Total	l Rev	VS		0	Cum T	otal Revs		0
Depth I	n		1730	.0m	TFA		0.910					ROP	avg	g)		N/A	ROP(a	avg)		20.54 m/hr
Depth (Out		1806	.0m									. •				,	σ,		
вна	# 6											*								
Weight	(Wet)		1.1	3mt	Leng	th			265	.6m	Torqu	ıe(max	:)		16.3	Nm	D.C. (1) Ann Ve	locity	
Wt Belo	ow Jar(We	et)	2.0	4mt	String	J			11.1	1mt	Torqu	e(Off.E	3tm))	5.4	Nm	D.C. (2) Ann Ve	locity	
					Pick-	Up			11.1	1mt	Torqu	ıe(On.E	3tm))	10.9	Nm	H.W.D	.P. Ann V	elocity	
					Slack	-Off			11.1	1mt							D.P. A	nn Veloci	ty	
		Equip	ment				Leng	jth	C	DD		ID		Serial	#			Com	ment	
Bit							0.2	:3m	21	6mm		0mm	110	0960						
Near B	it Stabilise	er					2.4	0m	16	7mm		39mm	DA	A6028						
Pony D	rill Collar						5.0	4m		'0mm		70mm		A6024						
MWD 7								'6m		1mm		76mm		M4007		DG	R EWR	DDR SLE	3	
MWD								'9m		1mm		76mm		2535				sensor		
MWD								5m		1mm		76mm		599301		Pul				
	tring Stab							'8m		'0mm		71mm	92	2566		8.5	"			
6.5in D							74.4			5mm		73mm			_					
6.5in Ja								:4m		5mm		70mm	WE	DAH0292	8					
6.5in D							18.5			5mm		73mm								
5in HW	יטי						138.3	i/m	12	7mm		76mm								



Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Fuel	m3	0	15.8	-0.1	328.7	Santos	7
Drill Water	m3	0	34.8	0.1	595.2	DOGC	46
Potable Water	m3	26	28.7	0	248.4	ESS	8
Gel	sx	0	0	0	1,122.0	Dowell	2
Cement	sx	766	0	-1	2,450.0	Geoservices	2
Barite	sx	667	0	-1	2,073.0	Fugro	6
KCI Brine	bbl	0	0	0	0.0	Cameron	3
						MI	2
						Weatherford	7
						Sperry-Sun	2
						Expro	7
						Baker Oil Tools	1
						Halliburton	1
						Total	94

Casing	g			
OD	L.O.T. / F.I.T.	Csg Shoe (MD/TVD)	Cementing	
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2	
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2	
340	2.08sg / 0sg	654.8m / 654.8m	Lead: 258 bbl, 12.5 ppg, Class G Tail: 91 bbl, 15.8 ppg, Class G	
244	0sg / 0sg	1719.8m / 1716.0m	Lead: 9 m3 (57 bbl) 1.5 sg (12.5 ppg) Class G Tail: 7.5 m3 (47 bbl) 1.9 sg (15.8 ppg) Class G	

HSE Summary			
Events	Date of Last	Days Since	Remarks
Abandon Drill	26 Jun 2005	3 Days	Abandon Drill
BOP Test	21 Jun 2005	8 Days	BOP Test
Environmental Incident	02 May 2005	58 Days	None reported since commencement of campaign.
Fire Drill	26 Jun 2005	3 Days	Fire Drill
First Aid	04 May 2005	56 Days	Person struck on nose with metal bar
Lost Time Incident	02 May 2005	58 Days	None reported since commencement of campaign.
Man Overboard Drill	18 Jun 2005	11 Days	Man Overboard Drill
Near Miss	20 Jun 2005	9 Days	Failed compensator tensioner cable, release of compensator fluid.
Safety Meeting	26 Jun 2005	3 Days	Weekly Safety Meeting
Stop Cards	29 Jun 2005	0 Days	8 Stop Cards

Marine									
Weather ch	eck on 29 Jun	2005 at 240	0					Rig Support	
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (mt)
18.5km	30km/h	225deg	1032.00bar	16.0C°	1.0m	225deg	1m/sec	1	11.61
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather	Comments	2	12.02
0.8deg	0.6deg	2.00m	2.5m	225deg	2m/sec	Part	Cloud	- 3 4	12.20 8.21
Rig Dir.	Ris. Tension	VDL		Comments				5	10.80
251.0deg	12.25mt	188.51mt						6	12.11
	12.20							7	13.52
								8	11.61



DRILLING MORNING REPORT # 16 Casino-5 (29 Jun 2005)

Boats	Arrived	(date/tim	ne)	Departed (date/time)	Status		В	ulks	
Far Grip					Ocean Patriot		Item	Unit	Quantity
						Fuel		m3	384
						Drill Water		m3	527
						Potable V	Vater	m3	417
						Gel Cement		t	84 76
						Barite		t	0
						NaCl Brir	ne	bbl	700
Pacific					Sailing to Portland		Item	Unit	Quantity
Wrangler						Fuel		m3	411.8
						Drill Wate		m3	333
						Potable V	Vater	m3	258 43
						Cement		t	0
						Barite		t	0
						KCI Brine)	bbl	0
Helicopter	Movement								
Flight #	Time			Destination		Comment			Pax
1	11:39	Ocean	Patriot						4
1	11:50	Essen	don						6
Lessons Le	earned								
Categories			Event	Descr.	Post Event Descr.		Lesson		
Short Descr.	Casing so prior to lo completic	wer	option and co	nd screen completions review to conduct casing scraper mpletion fluid displacement					
Phase	Completio	on	prior to	running lower completion.					
Category									
Resp. Party									
Closed/Open	Open								
Short Descr.				n 6.3.4 indicates that a re of 3,600 psi will shear			There is no s		on
Phase	Completion	on	release	e the running tools.					
Category									
Resp. Party									
Closed/Open	Open								



		From:	Ron King, Mi	ke Andronov			
		OIM:	Barry Scott				
Well Data							
Country	Australia	M. Depth	1806.0m	Cur. Hole Size	216mm	AFE Cost	
Field	Casino	TVD	1802.0m	Casing OD	244mm	AFE No.	5746022
Drill Co.	DOGC	Progress	0m	Shoe TVD	1716.0m	Daily Cost	
Rig	Ocean Patriot	Days from spud	14.21	F.I.T. / L.O.T.	0sg / 0sg	Cum Cost	
Wtr Dpth(LAT)	68.2m	Days on well	16.13			Planned TD	1788.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600	POOH with	screen expansion t	tool.		
RT-ML	89.7m	Planned Op		screen expansion t Retrieve XT bore pr		H casing scraper a	nd riser cleaning

RIH with lower completion and set ESS hanger and lower completion packer. POOH with running tools. MU and RIH expandable sand screen expansion tool on DP. Unable to pass PBR on lower completion packer. POOH and changed BHA. RIH with expandable sand screen expansion tool assembly and expanded screens. POOH.

Operations For Period 0000 Hrs to 2400 Hrs on 30 Jun 2005

Phse	Cls (RC)	Op	From	То	Hrs	Depth	Activity Description
СТВ	P	RIC	0000	0145	1.75	1806.0m	Continued to RIH with lower completion at max rate of 10 m/min. PU weight 95MT (210 klbs), Slack off weight 99.8MT (220 klbs) as 140mm (5.5") ESS entering 244mm (9-5/8") casing shoe. Reduced running speed of lower completion to 6m/min in open hole. PU weight 102MT (225 klbs), Slack off weight 102MT (225 klbs). Tagged TD (1806mRT) with 2.3MT (5 klbs). Pulled back to setting depth.
СТВ	P	RPK	0145	0315	1.50	1806.0m	Held JSA on setting the lower completion Packer. Broke out 127mm (5") DP and dropped 44mm (1-3/4") brass ball, MU and chased with brine at 0.3m3/min (2bpm). Pumped 7.1m3 (45 bbls) without pressure increasing - stopped pumping. Pumped at higher rates and increase pressure to 20685kPa (3,000 psi) with 0.2m3 (1 bbl) and set lower completion packer. Held for 15 minutes. Performed 6.8MT (15 klbs) overpull above neutral weight and set down 6.8MT (15 klbs) below neutral weight.
СТВ	P	PT	0315	0415	1.00	1806.0m	Closed BOP pipe rams and pressure tested packer elements with 6895kPa (1000 psi) for 10 minutes. Opened BOP pipe rams and released running tools from lower completion packer with right hand rotation. POOH with running tools. Lower Completion Packer set at 1686.35 mRT. ESS at 1728.07mRT-1797.07mRT. Shoe at 1800.5mRT.
СТВ	Р	RIC	0415	0815	4.00	1806.0m	While POOH, brine U-tubing through drill pipe. Lined up to trip tank and flow checked. MU and pumped 4.8m3 (30bbl) 1.44sg (12 ppg) mud slug. Continued to POOH.
СТВ	P	RIC	0815	0930	1.25	1806.0m	Lower Completion packer setting tools at surface, o-ring missing - tools in good condition. Broke out tools. MU 140 mm (5-1/2") Axial Compliant Expansion Tool (ACE Tool) c/w 114 mm (4.5") IF xover and stand of 127 mm (5") DP. Connected top drive to BHA and functioned test ACE Tool. Roller cones functioned ok. No Leaks observed. 0.4 m3/min (105 gal/min) - 10340 kPa (1500 psi) 0.42 m3/min (110 gal/min) - 11030 kPa (1600 psi) 0.45 m3/min (120 gal/min) - 11720 kPa (1700 psi) POOH ACE tool and manually retracted compliant rollers using wooden hammer.
СТВ	P	RIC	0930	1530	6.00	1806.0m	MU expansion BHA - 140 mm (5-1/2") Axial Compliant Expansion Tool (ACE Tool) c/w 114 mm (4.5") IF xover, 9x165mm (6.5") DC's, 15x127mm (5") HWDP, and 127mm (5") DP. RIH to just above packer, engaged compensator, weight 106.6MT (235 k lbs). Continued RIH unable to pass 1690 m - set down 9.1MT (20 klbs). PU 3m and turned pipe 1/2 turn. RIH - unable to pass 1690mRT. Set down in stages to 9.1MT (20 klbs). Rotate string and setdown to 1691mRT - unable to pass. PU 15.9MT (35 klbs) overpull to release tools. POOH.
СТВ	TP (OTH)	RIC	1530	2000	4.50	1806.0m	POOH with 127 mm (5") HWDP and ACE tool checking OD's and serial numbers. Scour marks noted on bottom of 165mm (6.5") DC. Checked ACE BHA for damage - ok. Callipered bottom Drill Collar OD at 170 mm (6.687"). Drift of 194 mm (7-5/8") 44.2 kg/m3 (29.7 lb/ft) 13Cr80 is 171mm (6.75"). 165mm (6.5") DC getting hang up at 7-5/8" xover at 1690mRT.
СТВ	TP (OTH)	RIC	2000	2045	0.75	1806.0m	Held JSA - MU and running ACE BHA. PU 140 mm (5-1/2") Axial Compliant Expansion Tool (ACE Tool) c/w 114 mm (4.5") IF xover and stand of 127 mm (5") DP. Connected top drive to BHA and functioned test ACE Tool. Roller cones functioned ok. No Leaks observed. 0.38 m3/min (100 gal/min) - 8275 kPa (1200 psi) 0.40 m3/min (105 gal/min) - 8965 kPa (1300 psi) 0.42 m3/min (110 gal/min) - 9635 kPa (1400 psi) 0.43 m3/min (115 gal/min) - 10340 kPa (1500 psi) POOH ACE tool and manually retracted compliant rollers using wooden hammer.



Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
СТВ	TP (OTH)	RIC	2045	2400	3.25	1806.0m	MU expansion BHA. RIH with 140 mm (5-1/2") Axial Compliant Expansion Tool (ACE Tool) c/w 114 mm (4.5") IF xover, 15x127mm (5") HWDP, 9x165mm (6.5") DC and 127mm (5") DP to 1085mRT.

Operations For Period 0000 Hrs to 0600 Hrs on 01 Jul 2005

Phse	Cls (RC)	Op	From	То	Hrs	Depth	Activity Description
СТВ	TP (OTH)	RIC	0000	0215	2.25	1806.0m	Continued RIH ACE tool on 127 mm (5") DP. Engaged compensators. PU weight 106MT (235 klbs), Slack-off weight 106MT (235 klbs). Tagged ETC with 2.3MT (5 klbs) @ 1727mRT.
СТВ	P	RIC	0215	0300	0.75	1806.0m	Held JSA on Expanding of ESS. Expanded the ESS with the fixed cone pre-expansion tool section of the ACE assembly by RIH at 3m/min, sitting down between 11.3MT-15.9MT (25-35 klbs) through connectors. Third connection of ESS saw 27.2MT (60 klbs) set down weight before compensator pistons bottomed out dropping string 2.5 metres. Continued expanding screens to 1791mRT with compensators locked.
СТВ	Р	TO	0300	0330	0.50	1806.0m	POOH to 1726mRT - no hangup observed.
СТВ	P	RIC	0330	0430	1.00	1806.0m	Commenced pumping at 0.42m3/m (110 gpm), surface pressure 7585kPa (1100 psi). Increased pump rate to 0.43m3/m (115 gpm), surface pressure 8690kPa (1260 psi) - RIH at max rate of 3m/min, setting down 37.8MT-56.8MT (10-15 klbs) at the ACE tool to fully expand screens from 1728mRT to 1791mRT.
СТВ	Р	TO	0430	0600	1.50	1806.0m	POOH with drill pipe, DC's, HWDP and ACE tools to 1220mRT.

WBM Data									
Mud Type:	Flo Pro	API FL:	5cm ³ /30m	CI:	148000	Solids:	14	Viscosity:	0sec/L
Sample-From:	Pit 3	Filter-Cake:	1mm	K+C*1000:	6.5%	H2O:	86%	PV: YP:	0.014Pa/s 0.144MPa
Time:	20:00	HTHP-FL:	0cm ³ /30m	Hard/Ca:	120	Oil:	0%	Gels 10s:	0.048
Weight:	1.24sg	HTHP-Cake:	0mm	MBT:	0.25	Sand:		Gels 10m: Fann 003:	0.057
Temp:	30.0C°			PM:	0.8	pH:	9.7	Fann 006: Fann 100:	12 30
				PF:	0.1	PHPA:	0ppb	Fann 200:	38
								Fann 300:	44
Ì								Fann 600:	58

WBM Dat	ta			Cost Today	\$ 0				
Mud Type:	CaCl2 Completion	API FL:	0cm ³ /30m	CI:	146000	Solids:	0	Viscosity:	0sec/L
	Bri	Filter-Cake:	0mm	K+C*1000:	0%	H2O:		PV:	0Pa/s
Sample-Fron	m:	Filler-Cake.	OHIIII	K+C 1000.	0 /0	nzo.	0%		0MPa
•		HTHP-FL:	0cm ³ /30m	Hard/Ca:	0	Oil:	0%	Gels 10s:	0
Time:	20:00	LITUD Calva	0	MDT.	0	Condi		Gels 10m:	0
Weight:	1.22sg	HTHP-Cake:	0mm	MBT:	0	Sand:		Fann 003:	0
Ü	ŭ			PM:	0	pH:	9.1	Fann 006:	0
Temp:	0C°				_	·		Fann 100:	0
				PF:	0	PHPA:		Fann 200:	0
								Fann 300:	0
								Fann 600:	0

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Fuel	m3	0	16.1	0.1	312.7	Santos	8
Drill Water	m3	0	33.7	0	561.5	DOGC	46
Potable Water	m3	30	27.8	0	250.6	ESS	8
Gel	sx	0	0	0	1,122.0	Dowell	2
Cement	sx	0	0	0	2,450.0	Geoservices	2
Barite	sx	0	0	0	2,073.0	Fugro	6
KCI Brine	bbl	0	0	0	0.0	Cameron	4
						MI	1
						Weatherford	7
						Expro	9
						Baker Oil Tools	1
						Halliburton	1
						Total	95



Casing)			
OD	L.O.T. / F.I.T.	Csg Shoe (MD/TVD)	Cementing	
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2	
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2	
340	2.08sg / 0sg	654.8m / 654.8m	Lead: 258 bbl, 12.5 ppg, Class G Tail: 91 bbl, 15.8 ppg, Class G	
244	0sg / 0sg	1719.8m / 1716.0m	Lead: 9 m3 (57 bbl) 1.5 sg (12.5 ppg) Class G Tail: 7.5 m3 (47 bbl) 1.9 sg (15.8 ppg) Class G	

HSE Summary			
Events	Date of Last	Days Since	Remarks
Abandon Drill	26 Jun 2005	4 Days	Abandon Drill
BOP Test	21 Jun 2005	9 Days	BOP Test
Environmental Incident	02 May 2005	59 Days	None reported since commencement of campaign.
Fire Drill	26 Jun 2005	4 Days	Fire Drill
First Aid	04 May 2005	57 Days	Person struck on nose with metal bar
Lost Time Incident	02 May 2005	59 Days	None reported since commencement of campaign.
Man Overboard Drill	18 Jun 2005	12 Days	Man Overboard Drill
Near Miss	20 Jun 2005	10 Days	Failed compensator tensioner cable, release of compensator fluid.
Safety Meeting	26 Jun 2005	4 Days	Weekly Safety Meeting
Stop Cards	30 Jun 2005	0 Days	5 Stop Cards

Marine									
Weather ch	eck on 30 Jun	2005 at 240	Rig Support						
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (mt)
18.5km	0km/h	000deg	1024.00bar	16.0C°	0m	000deg	0m/sec	1	11.52
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather	Comments	2	12.11
0.5.1	0.5.1	0.00		005-1	0/	D.:	_1-	3	12.02
0.5deg	0.5deg	0.30m	1.5m	225deg	2m/sec		zle. nd and wave	4	7.89
Rig Dir.	Ris. Tension	VDL		Comments			nd and wave	5	10.89
251.0deg	12.25mt	203.28mt				dii o	olio11	6	12.20
		200.20						7	13.61
								8	11.70

Boats	Arrived (date/time)	Departed (date/time)	Status		Bulks	
Far Grip			Ocean Patriot	Item	Unit	Quantity
				Fuel	m3	374
				Drill Water	m3	527
				Potable Water	m3	414
				Gel	t	84
				Cement	t	76
				Barite	t	0
				NaCl Brine	bbl	433
Pacific			Portland	Item	Unit	Quantity
Wrangler				Fuel	m3	411.8
				Drill Water	m3	333
				Potable Water	m3	258
				Gel	t	43
				Cement	t	0
				Barite	t	0
				KCI Brine	bbl	0
Helicopter	Movement	_				
Flight #	Time	Destination	Co	omment		Pax

i iigiit ii	111110	Boomaton	Commone	ı un
1	10:10	Ocean Patriot		6
1	10:19	Essendon		5



DRILLING MORNING REPORT # 17 Casino-5 (30 Jun 2005)

Lessons Le	arned					
Categories		Event Descr.	Post Event Descr.	Lesson		
Short Descr.	Use of compensators for ESS screen expansion	Uneven slack off weight when passing screen connectors resulted in entire string dropping ~2.5 m after reaching freepoint.	Considered operation to be unsafe with compensaters. Disengaged compensated and continued operation.	Consider dropping of string and compensators "bottoming" out during expansion process.		
Phase	Completion	Difficulty in managing slips and stand make up at surface while				
Category		compensated.				
Resp. Party	Santos					
Closed/Open	Open					
Short Descr.	Drift analysis of running strings	BHA for running ACE expansion tool comprised 6 1/2" drill collars	Moved drill collars higher up in string and ran heavy weight drill	Drift analysis (ID's & OD's) considered for completion components but also should be thoroughly reviewed for running		
Phase	Completion	just above the tool. Drill collar did not pass through the 7 5/8" tubing.	pipe directly above ACE tool.			
Category				strings as well.		
Resp. Party	Santos					
Closed/Open	Open					



		From:	Ron King, Mi	ke Andronov			
		OIM:	Barry Scott				
Well Data							
Country	Australia	M. Depth	1806.0m	Cur. Hole Size	216mm	AFE Cost	
Field	Casino	TVD	1802.0m	Casing OD	244mm	AFE No.	5746022
Drill Co.	DOGC	Progress	0m	Shoe TVD	1716.0m	Daily Cost	
Rig	Ocean Patriot	Days from spud	15.21	F.I.T. / L.O.T.	0sg / 0sg	Cum Cost	
Wtr Dpth(LAT)	68.2m	Days on well	17.13			Planned TD	1788.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600	RIH Upper	Completion.		-	
RT-ML	89.7m	Planned Op	RIH with U	oper Completion.			

POOH with screen expansion tool. MU and RIH casing scraper BHA and riser brush. Scrape casing over packer setting depth and brush riser, circulate hole to CaCl2 brine. POOH. RU to run upper completion.

Formations											
Name	Top (MD)	Top (TVD)	Comment								

Operations For Period 0000 Hrs to 2400 Hrs on 01 Jul 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
СТВ	TP (OTH)	RIC	0000	0215	2.25	1806.0m	Continued RIH ACE tool on 127 mm (5") DP. Engaged compensators. PU weight 106MT (235 klbs), Slack-off weight 106MT (235 klbs). Tagged ETC with 2.3MT (5 klbs) @ 1727mRT.
СТВ	P	RIC	0215	0300	0.75	1806.0m	Held JSA on Expanding of ESS. Expanded the ESS with the fixed cone pre-expansion tool section of the ACE assembly by RIH at 3m/min, sitting down between 11.3MT-15.9MT (25-35 klbs) through connectors. Third connection of ESS saw 27.2MT (60 klbs) set down weight before compensator pistons bottomed out dropping string 2.5 metres. Continued expanding screens to 1791mRT with compensators locked (disengaged).
CTB	Р	ТО	0300	0330	0.50	1806.0m	POOH to 1726mRT - no hangup observed.
СТВ	P	RIC	0330	0430	1.00	1806.0m	Commenced pumping at 0.42m3/m (110 gpm), surface pressure 7585kPa (1100 psi). Increased pump rate to 0.43m3/m (115 gpm), surface pressure 8690kPa (1260 psi) - RIH at max rate of 3m/min, setting down 37.8MT-56.8MT (10-15 klbs) at the ACE tool to fully expand screens from 1728mRT to 1791mRT.
СТВ	Р	ТО	0430	1100	6.50	1806.0m	POOH with drill pipe, DC's, HWDP and ACE tools. Cleaned and Inspected ACE tool -laydown same.
СТВ	Р	TI	1100	1200	1.00	1806.0m	PU Casing Scraper BHA, 216 mm (8.5") Bit with nozzles removed, bit sub and xover to 114 mm (4.5") IF connection, 1 x 127 mm (5") joint of DP, 244 mm (9-5/8") Razor Back scraping tool. RIH 5 x stands of 127 mm (5") DP.
СТВ	U	SC	1200	1430	2.50	1806.0m	Hung off block, slipped and cut drill line. Unhung block. Repaired shear pin on racking arm.
CTB	Р	TI	1430	1800	3.50	1806.0m	Continued RIH casing scraper assembly.
СТВ	P	CHC	1800	1930	1.50	1806.0m	MU riser brush tool and continue to RIH casing scraper and riser cleaning assembly. Scraped 244 mm (9-5/8") 13Cr80 casing from 1552 mRT - 1658 mRT (3 passes) while brushing riser to 3 m above flex joint. While scraping casing and riser cleaned and circulated 1.24 sg (10.3 ppg) mud at 3.82m3/m (24 bpm) and rotated pipe at maximum of 60 rpm.
СТВ	Р	CHC	1930	2015	0.75	1806.0m	Functioned upper and lower annulars and upper and lower pipe rams. Circulated 75.5 m3 (475 bbls) mud at 3.82m3/m (24 bpm) until shakers clean with bit @ 1667 mRT.
СТВ	P	CHC	2015	2115	1.00	1806.0m	Briefed all personnel on displacement procedure. Flushed choke, kill and boost lines with CaCl2 brine. Pumped 6.8 m3 (43 bbl) high viscous brine pill at 1.3 m3/m (8.4 bpm), chased with 24.1 m3 (152 bbl) 1.2 sg (10 ppg) NaCl brine at 3.2 m3/m (20.5 bpm) followed by 73.4 m3 (462 bbl) at 3.8 m3/m (24 bpm) 1.22 sg (10.17) inhibited CaCl2 brine with bit at @ 1667 mRT. Shakers clean. Rotated and reciprocated string while circulating.
СТВ	P	ТО	2115	2400	2.75	1806.0m	Transferred CaCl2 tank bottoms into single tank and into trip tank. Prepared tanks to recieve NaCl from boat. POOH to the riser brush tool. Inspected riser brush - good condition. Junk basket contained ~ 750 mL debris of metal shavings, shale and rubber pieces. Continued to POOH - current depth 1045 mRT.

Operations For Period 0000 Hrs to 0600 Hrs on 02 Jul 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
СТВ	Р	TO	0000	0215	2.25	1806.0m	9-5/8" casing scraper at surface. Casing scraper in good condition with no evidence of

DRILLING MORNING REPORT # 18 Casino-5 (01 Jul 2005)

Phse	Cls (RC)	Op	From	То	Hrs	Depth	Activity Description
							damage or metal loss. Laid down 9-5/8" casing scraper and 8.5" bit with nozzles removed.
СТВ	P	RCM	0215	0500	2.75	1806.0m	PU Bore Protector running and retrieving tool. Opened TCT and SIV needle valves on XT [CSM valve already open]. RIH Bore Protector Running and Retrieval Tool / rubber nosed jet sub assembly on drill pipe. Jetted BOP ram and annular cavities with NaCl brine and closed TCT, CSM and SIV. Latched bore protector and unseated from XT with 140 klbs overpull. POOH. Bore Protector assembly recovered and laid down same. Inspected XT Bore Protector - internally in good condition. 3 external scoured marks above XT Bore Protector dogs. [Flushed though TCT, CSM and SIV on tree and closed]
СТВ	P	RIC	0500	0600	1.00	1806.0m	(IN PROGRESS) Held JSA on Running Upper Completion. Rig up handling equipment and tongs dressed for 7" 29 lb/ft 13Cr80 KSB tubing. PU Muleshoe (UC01-02) and MU 1xjoint 7" 29 lb/ft 13Cr80 KSB tubing, 4.625" 29 lb/ft QN Nipple (UC02-02), 1xjoint 7" 29 lb/ft 13Cr80 KSB tubing, 47 lb/ft Production Packer (UC03-02), 5.5" chemical cut sub (UC04-02).

Mud Type:	NaCl Completion	API FL:	0cm ³ /30m	CI:	158000	Solids:	0	Viscosity:	0sec/L
	Brin	F::: 0 !		14 0*4000	201	1100	00/	PV:	0Pa/s
Sample-From:	Pit 5	Filter-Cake:	0mm	K+C*1000:	0%	H2O:	0%		0MPa
•		HTHP-FL:	0cm ³ /30m	Hard/Ca:	0	Oil:	0%	Gels 10s:	0
Time:	22:00		_		_			Gels 10m:	0
Weight:	1.20sg	HTHP-Cake:	0mm	MBT:	0	Sand:		Fann 003:	0
ŭ	_			PM:	0	pH:	8.9	Fann 006:	0
Temp:	0C°					'		Fann 100:	0
				PF:	0	PHPA:	0ppb	Fann 200:	0
								Fann 300:	0
								Fann 600:	0

010 0 1 11								
CI2 Completion	API FL:	0cm ³ /30m	CI:	146000	Solids:	0	Viscosity:	0sec/L
Bri							PV:	0Pa/s
	Filter-Cake:	0mm	K+C*1000:	0%	H2O:	0%	YP:	0MPa
	HTHP-FI ·	0cm3/30m	Hard/Ca:	0	Oil	0%	Gels 10s:	0
20:00	1111111 -1 L .	00111 / 30111	riaid/Oa.	U	OII.	070	Gels 10m:	0
4.00	HTHP-Cake:	0mm	MBT:	0	Sand:		Fann 003:	0
1.22sg			DM:	0	nU.	0.1	Fann 006:	0
0C°			PIVI.	U	рп.	9.1	Fann 100:	0
			PF:	0	PHPA:	0ppb	Fann 200:	0
							Fann 300:	0
							Fann 600:	0
_	20:00 1.22sg	20:00 1.22sg Filter-Cake: HTHP-FL: HTHP-Cake:	20:00 1.22sg Filter-Cake: 0mm HTHP-FL: 0cm³/30m HTHP-Cake: 0mm	20:00 1.22sg 0C° Filter-Cake: 0mm K+C*1000: Hard/Ca: Hard/Ca: 0mm MBT: PM:	20:00 HTHP-FL: 0cm³/30m Hard/Ca: 0 1.22sg 0C° HTHP-Cake: 0mm MBT: 0 PM: 0	20:00 1.22sg 0C° Filter-Cake: 0mm K+C*1000: 0% H2O: HTHP-FL: 0cm³/30m Hard/Ca: 0 Oil: HTHP-Cake: 0mm MBT: 0 Sand: PM: 0 pH:	Filter-Cake: 0mm K+C*1000: 0% H2O: 0%	Filter-Cake:

Bulk Stocks						Personnel On Board		
Name	Unit	In	Used	Adjust	Balance	Company	Pax	
Fuel	m3	0	21.9	0	290.8	Santos	8	
Drill Water	m3	0	16.8	0	544.7	DOGC	44	
Potable Water	m3	27	18.7	0	258.9	ESS	8	
Gel	sx	0	0	0	1,122.0	Dowell	2	
Cement	sx	0	0	0	2,450.0	Geoservices	2	
Barite	sx	0	0	0	2,073.0	Fugro	6	
KCI Brine	bbl	0	0	0	0.0	Cameron	4	
						MI	1	
						Weatherford	4	
						Expro	12	
						Baker Oil Tools	1	
						Halliburton	1	
						Expro	1	
						Total	94	

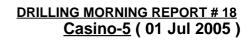


Casing	g			
OD	L.O.T. / F.I.T.	Csg Shoe (MD/TVD)	Cementing	
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2	
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2	
340	2.08sg / 0sg	654.8m / 654.8m	Lead: 258 bbl, 12.5 ppg, Class G Tail: 91 bbl, 15.8 ppg, Class G	
244	0sg / 0sg	1719.8m / 1716.0m	Lead: 9 m3 (57 bbl) 1.5 sg (12.5 ppg) Class G Tail: 7.5 m3 (47 bbl) 1.9 sg (15.8 ppg) Class G	

HSE Summary			
Events	Date of Last	Days Since	Remarks
Abandon Drill	26 Jun 2005	5 Days	Abandon Drill
BOP Test	21 Jun 2005	10 Days	BOP Test
Environmental Incident	02 May 2005	60 Days	None reported since commencement of campaign.
Fire Drill	26 Jun 2005	5 Days	Fire Drill
First Aid	04 May 2005	58 Days	Person struck on nose with metal bar
Lost Time Incident	02 May 2005	60 Days	None reported since commencement of campaign.
Man Overboard Drill	18 Jun 2005	13 Days	Man Overboard Drill
Near Miss	20 Jun 2005	11 Days	Failed compensator tensioner cable, release of compensator fluid.
Safety Meeting	26 Jun 2005	5 Days	Weekly Safety Meeting
Stop Cards	01 Jul 2005	0 Days	3 Stop Cards

Marine	Marine									
Weather ch	eck on 01 Jul	2005 at 2400	Rig Support							
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (mt)	
18.5km	22km/h	292deg	1012.00bar	14.0C°	0.4m	292deg	1m/sec	1	11.70	
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather	Comments	2	12.38	
0.5deg	0.5deg	0.40m	1.5m	225deg	2m/sec	R	ain	- 3 4	12.11 8.21	
Rig Dir.	Ris. Tension	VDL		Comments				5	10.61	
251.0deg	12.25mt	200.35mt						6	12.11	
		200.00						- 7	13.70	
								8	11.70	

Boats	Arrived (date/time)	Departed (date/time)	Status	Ві	ılks	
Far Grip				Ocean Patriot	Item	Unit	Quantity
					Fuel	m3	366
					Drill Water	m3	527
					Potable Water	m3	411
					Gel	t	84
					Cement	t	76
					Barite	t	0
					NaCl Brine	bbl	433
Pacific		16:45		Ocean Patriot	Item	Unit	Quantity
Wrangler					Fuel	m3	505.3
					Drill Water	m3	433
					Potable Water	m3	269
					Gel	t	43
					Cement	t	42
					Barite	t	37
					KCI Brine	bbl	0
Helicopter	Movement						
Flight #	Time		Destination	C	omment		Pax
1	10:10	Ocean Patriot					6
1	10:19	Essendon					5





Lessons Le	arned					
Categories		Event Descr.	Post Event Descr.	Lesson		
Short Descr.	Well Control xover on drill floor	Noticed the upper completion well control xover on drill floor.		Add to section 9.1 to ensure well control xover to always be on drill floor.		
Phase	Completion					
Category						
Resp. Party	Santos					
Closed/Open	Open					
Short Descr.	Mud Circulation during Casing Scraper RUn	Programme called for 1.2 x cased hole and riser volumes				
Phase	Completion					
Category						
Resp. Party						
Closed/Open	Open					
Short Descr.	Flush booster line with CaCl2.	Section 7.3.9. Program does not include the flushing of the booster	Circulated booster line with CaCl2.	If booster line is not displaced with CaCl2 prior to circulating hole clean		
Phase	Completion	line with CaCl2.		with brine, mud will be displaced when boosting riser. Add learning to		
Category				Section 7.3.9.		
Resp. Party						
Closed/Open	Open					



		From :	O.	ike Andronov			
		OIM:	Barry Scott				
Well Data							
Country	Australia	M. Depth	1806.0m	Cur. Hole Size	216mm	AFE Cost	
Field	Casino	TVD	1802.0m	Casing OD	244mm	AFE No.	5746022
Drill Co.	DOGC	Progress	0m	Shoe TVD	1716.0m	Daily Cost	
Rig	Ocean Patriot	Days from spud	16.21	F.I.T. / L.O.T.	0sg / 0sg	Cum Cost	
Wtr Dpth(LAT)	68.2m	Days on well	18.13			Planned TD	1788.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600	PU flowhea	ad.			
RT-ML	89.7m	Planned Op		H in XT. Pressure te	st completion a	nd XT. Circulate dies	sel underbalance.

POOH scraper assembly. RIH and retrieved bore protector. RIH upper completion string. MU SSSV and TH. RIH landing string.

formations										
Top (MD)	Top (TVD)	Comment								
	Top (MD)	Top (MD) Top (TVD)								

Operations For Period 0000 Hrs to 2400 Hrs on 02 Jul 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
СТВ	Р	ТО	0000	0215	2.25	1806.0m	9-5/8" casing scraper at surface. Casing scraper in good condition with no evidence of damage or metal loss. Laid down 9-5/8" casing scraper and 8.5" bit with nozzles removed.
СТВ	P	RCM	0215	0500	2.75	1806.0m	PU Bore Protector running and retrieving tool. Opened TCT and SIV needle valves on XT [CSM valve already open]. RIH Bore Protector Running and Retrieval Tool / rubber nosed jet sub assembly on drill pipe. Jetted BOP ram and annular cavities with NaCl brine and closed TCT, CSM and SIV. Latched bore protector and unseated from XT with 140 klbs overpull. POOH. Bore Protector assembly recovered and laid down same. Inspected XT Bore Protector - internally in good condition. 3 external scoured marks above XT Bore Protector dogs. [Flushed though TCT, CSM and SIV on tree and closed]
СТВ	Р	RIC	0500	0700	2.00	1806.0m	Held JSA on Running Upper Completion. Rig up handling equipment and tongs dressed for 7" 29 lb/ft 13Cr80 KSB tubing. PU Muleshoe (UC01-02) and MU 1xjoint 7" 29 lb/ft 13Cr80 KSB tubing, 4.625" 29 lb/ft QN Nipple (UC02-02), 1xjoint 7" 29 lb/ft 13Cr80 KSB tubing, 47 lb/ft Production Packer (UC03-02), 5.5" chemical cut sub (UC04-02).
СТВ	Р	RIC	0700	1800	11.00	1806.0m	RIH 7" 29 lb/ff 13Cr80 KSB tubing to 1525mRT.
СТВ	P	RCM	1800	2200	4.00	1806.0m	PU and MU SSSV sub assembly (UC05-02) and 1xjoint 7" 29 lb/ft 13Cr80 KSB tubing. Held JSA MU and running of SSSV. Pulled back SSSV above RT and MU control line. Performed 15 min pressure test on SSSV through control line to 7,500 psi. Cycled SSSV three times to determine opening pressures and volumes. Pressured control line to 5,000 psi and locked at hub mounted manifold [3 x SSSV Function tests consistant - Opening Pressure 1500 psi, Closing Pressure 1100psi and 104 mL returned]
СТВ	P	RCM	2200	2300	1.00	1806.0m	RIH 4xjoints 7" 29 lb/ft 13Cr80 KSB tubing, installing control line clamps at each tubing connection. PU TH (UC06-02). Held JSA on MU/RIH tubing hanger. Turned string to align TH production bore 45 degrees port of forward. Removed Helix securing pins and lowered Helix to RT. Attached SSSV test line and flushed through until returns observed below the TH. Terminated SSSV control line to TH and pressure tested to 7,500 psi / 15 mins. [3 x SSSV Function tests consistant SSSV Opening Pressure 1500psi, Closing Pressure 1050psi and 99 mL returned].
СТВ	Р	RCM	2300	2400	1.00	1806.0m	Re-attached helix to TH. Landed TH / split landing bowl onto RT. Noted total weight of 240 klbs (upper completion weight 135 klbs). Unlatched THHT and Layed down same. Rigged up Expro IWOCS sheave and 9-5/8" handling gear.

Operations For Period 0000 Hrs to 0600 Hrs on 03 Jul 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
СТВ	P	RCM	0000	0200	2.00	1806.0m	Continued to RU 9-5/8" handling gear. PU THRT/SSTT assembly with LS IWOCS and latched in THRT/SSTT elevators. Set TH into locked postion setting using THRT/SSTT assembly. Performed THRT/SSTT function tests. Stabbed THRT into TH. Performed TH/THRT interface connection test - 5000 psi / 5 mins. SSSV confidence test - 5000 psi / 5 mins. Functioned TH lock and confirmed returns from TH lock. Unlocked TH and installed 2x shear pins into actuator ring. Checked control line pressures ready for running. Locked in pressure and removed jumpers. PU and removed split landing bowls. Removed protection from TH seals. Installed shear pins



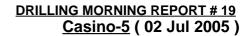
Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
							into TH circuit ring.
СТВ	Р	RIC	0200	0430	2.50	1806.0m	RU 20" split bowls and slips. RIH on 9-5/8" L80 New Vam landing string. [Jumped ROV and checked LMRP bulls eye - reading 1 deg starboard, inline with wellhead).
СТВ	Р	RCM	0430	0515	0.75	1806.0m	Removed the 15 ft bails. Installed top drive sub and slickline tugger onto top drive. Installed 22ft bails and shackled 45ft bails to 22 ft bails.
СТВ	Р	RCM	0515	0600	0.75	1806.0m	(IN PROGRESS) JSA on PU of flowhead from deck. PU and installed no cross coupling on last joint of 9-5/8" L80 New Vam landing string. MU flowhead to tubing.

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Fuel	m3	0	9.3	0	281.5	Santos	8
Drill Water	m3	0	9.6	0	535.1	DOGC	44
Potable Water	m3	30	35	0	253.9	ESS	8
Gel	sx	793	0	0	1,915.0	Dowell	2
Cement	sx	0	0	0	2,450.0	Geoservices	2
Barite	sx	0	0	0	2,073.0	Fugro	6
KCI Brine	bbl	0	0	0	0.0	Cameron	4
						MI	1
						Weatherford	4
						Expro	12
						Baker Oil Tools	1
						Halliburton	1
						Expro	1
						Total	94

Casin	g			
OD	L.O.T. / F.I.T.	Csg Shoe (MD/TVD)	Cementing	
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2	
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2	
340	2.08sg / 0sg	654.8m / 654.8m	Lead: 258 bbl, 12.5 ppg, Class G Tail: 91 bbl, 15.8 ppg, Class G	
244	0sg / 0sg	1719.8m / 1716.0m	Lead: 9 m3 (57 bbl) 1.5 sg (12.5 ppg) Class G Tail: 7.5 m3 (47 bbl) 1.9 sg (15.8 ppg) Class G	

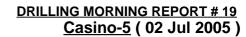
HSE Summary			
Events	Date of Last	Days Since	Remarks
Abandon Drill	26 Jun 2005	6 Days	Abandon Drill
BOP Test	21 Jun 2005	11 Days	BOP Test
Environmental Incident	02 May 2005	61 Days	None reported since commencement of campaign.
Fire Drill	26 Jun 2005	6 Days	Fire Drill
First Aid	04 May 2005	59 Days	Person struck on nose with metal bar
Lost Time Incident	02 May 2005	61 Days	None reported since commencement of campaign.
Man Overboard Drill	18 Jun 2005	14 Days	Man Overboard Drill
Near Miss	20 Jun 2005	12 Days	Failed compensator tensioner cable, release of compensator fluid.
Safety Meeting	26 Jun 2005	6 Days	Weekly Safety Meeting
Stop Cards	02 Jul 2005	0 Days	6 Stop Cards

Marine									
Weather ch	eck on 02 Jul	2005 at 2400)					Rig Support	
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (mt)
18.5km	30km/h	270deg	1024.00bar	15.0C°	0.4m	270deg	1m/sec	1	11.88
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather	Comments	2	12.52
0.5deg	0.5deg	0.80m	2.0m	225deg	2m/sec	Ove	ercast	3	12.02
			2.0111	220009	211//300	010	710001	4	7.89
Rig Dir.	Ris. Tension	VDL		Comments				5	10.70
251.0deg	12.25mt	204.52mt						6	12.02
								7	13.38
								8	11.79





Boats	Arrived (date/tin	ne)	Departed (date/time)	Status		ļ	Bulks	
Far Grip				Ocean Patriot		Item	Unit	Quantity
					Fuel		m3	357
					Drill Wate Potable V		m3	527 408
					Gel		t	42
					Cement Barite		t	76 0
					NaCl Brir	ne	bbl	0
Pacific		16:45		Ocean Patriot		Item	Unit	Quantity
Wrangler					Fuel Drill Wate		m3	495.6 433
					Potable V		m3	264
					Gel Cement		t	43 42
					Barite		t	37
					KCI Brine)	bbl	0
Lessons Le	earned					T		
Categories		Event D		Post Event Descr.		Lesson		
Short Descr.	Pressure test SSSV prior to function test	SSSV) a (Pressu	10.2.10 (Function test and Section 10.2.11 re test SSSV) should be					
Phase	Completion		d around to prove pressure of SSSV prior to function					
Category		test.	·					
Resp. Party								
Closed/Open	Open							
Short Descr.	Replaced LV with 9-5/8" pup joints for landing string	Casino- running landing	pauges are not being run on 5 there is no requirement for the lubricator valve in the string. All slickline tools can					
Phase	Completion		en out above flowhead with SV closed.					
Category		IVIV and	0.1 0.0000.					
Resp. Party								
Closed/Open	Open							
Short Descr.	Remove diverter bag prior to RIH completion.	bag from Section	9.2.10 - Remove diverter n RT should be moved to 9.1. I.e, Remove diverter					
Phase	Completion	complet	n RT before running upper ion.					
Category								
Resp. Party								
Closed/Open	Open							
Short Descr.	Removed SABS tool during clean-up run.	clean-up	ed SABS tool during o run (Section 7.2), as jetting e on XT bore protector					
Phase	Completion	retrieval	(Section 8.2.5).					
Category								
Resp. Party								
Closed/Open	Open							
Short Descr.	Investigate required overpull to retrieve XT.	overpull Protecto	investigate required to retrieve XT Bore or (Exceeds secondary					
Phase	Completion	shear pi	n rating).					
Category								
Resp. Party								
Closed/Open	Open							





Lessons Learned										
Categories		Event Descr.	Post Event Descr.	Lesson						
Short Descr. Requirement for upper junk seal on XT Bore Protector.		Review requirement for upper junk seal on XT BOre Protector.								
Phase	Completion									
Category		-								
Resp. Party										
Closed/Open	Open	-								



		From:	Ron King, Mi	ke Andronov			
		OIM:	Barry Scott				
Well Data							
Country	Australia	M. Depth	1806.0m	Cur. Hole Size	216mm	AFE Cost	
Field	Casino	TVD	1802.0m	Casing OD	244mm	AFE No.	5746022
Drill Co.	DOGC	Progress	0m	Shoe TVD	1716.0m	Daily Cost	
Rig	Ocean Patriot	Days from spud	17.21	F.I.T. / L.O.T.	0sg / 0sg	Cum Cost	
Wtr Dpth(LAT)	68.2m	Days on well	19.13			Planned TD	1788.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600	RIH to retri	eve TH isolation sle	eve.		
RT-ML	89.7m	Planned Op	Continue to	test TH and XT. Di	splace to diese	and set production	n packer.

RU Flowhead and slickline pressure control equipment. Landed off tubing hanger and testing tubing hanger and XT.

Formations										
Name	Top (MD)	Top (TVD)	Comment							

Operations For Period 0000 Hrs to 2400 Hrs on 03 Jul 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
СТВ	P	RCM	0000	0200	2.00	1806.0m	Continued to RU 9-5/8" handling gear. PU THRT/SSTT assembly with LS IWOCS and latched in THRT/SSTT elevators. Set TH into locked postion setting using THRT/SSTT assembly. Performed THRT/SSTT function tests. Stabbed THRT into TH. Performed TH/THRT interface connection test - 5000 psi / 5 mins. SSSV confidence test - 5000 psi / 5 mins. Functioned TH lock and confirmed returns from TH lock. Unlocked TH and installed 2x shear pins into actuator ring. Checked control line pressures ready for running. Locked in pressure and removed jumpers. PU and removed split landing bowls. Removed protection from TH seals. Installed shear pins into TH circuit ring.
СТВ	Р	RIC	0200	0430	2.50	1806.0m	RU 20" split bowls and slips. RIH on 9-5/8" L80 New Vam landing string. [Jumped ROV and checked LMRP bulls eye - reading 1 deg starboard, inline with wellhead).
СТВ	Р	RCM	0430	0515	0.75	1806.0m	Removed the 15 ft bails. Installed top drive sub and slickline tugger onto top drive. Installed 22ft bails and shackled 45ft bails to 22 ft bails.
СТВ	Р	RCM	0515	0700	1.75	1806.0m	JSA on PU of flowhead from deck. PU and installed no cross coupling on last joint of 9-5/8" L80 New Vam landing string. MU flowhead to tubing.
СТВ	Р	RCM	0700	0900	2.00	1806.0m	RU co-flexip and kill hose.
СТВ	Р	RCM	0900	1330	4.50	1806.0m	Held JSA on RU slickline. RU slickline and pressure control equipment. Closed MV and pressure tested surface well test lines / Slickline PCE to 5000 psi / 10 mins. Bleed off pressure. [offline; Open CSM and SIV and flush]
СТВ	P	RCM	1330	1430	1.00	1806.0m	Spooled out umbilical. Removed 20" split bowl and slips. 280 klbs total weight - 270 klbs down weight. Landed off TH and set down 30 klbs onto soft land shoulder. Observed landing string rotation. Flush SIV. Vent TH soft land until no returns. Increase set down to 140 klbs.
СТВ	Р	RCM	1430	1500	0.50	1806.0m	Closed AAV and AMV. Closed lower annular and pressure below to 1500psi. Leak off observed - bled down pressure. Opened annular and tested rig lines to BOP - ok.
СТВ	Р	RCM	1500	1530	0.50	1806.0m	Increase slack-off to 150 klbs. Close lower annular and pressure to 1500 psi - more returns seen from CSM. Bled off pressure and attempted TH lock. No returns from lock verify.
СТВ	TP (OTH)	RCM	1530	1600	0.50	1806.0m	Opened lower annular and closed 10-3/4" middle rams. Pressured up to 3000 psi and bled off, attempted TH lock. No returns from lock verify. Opened AMV.
СТВ	TP (OTH)	RCM	1600	1800	2.00	1806.0m	Increased pressure below 10-3/4" middle rams to 1500 psi to 2500 psi in 500 psi increments. Increased to 5000 psi. Locked TH. No returns from lock verify. Bled off pressure. Bled off TH lock - no returns. Opened 10-3/4" middle rams. Applied 50 klbs overpull - good. Set down completion weight. Locked TH lock - no returns. Closed 10-3/4" rams and increased pressure below to 5000 psi. Bled off pressure. Locked TH lock - no returns. Opened rams.
СТВ	TP (OTH)	RCM	1800	1830	0.50	1806.0m	Applied 50 klbs overpull (330 klbs on weight indicator) and increased pressure on soft land to 2000 psi (equivalent to additional 94 klbs overpull) - good indication that TH locked. Bleed down soft land pressure. Slacked off to 170 klbs (25 klbs on TH).
СТВ	Р	RCM	1830	1930	1.00	1806.0m	Opened CSM needle valve using XT IQOCS, and confirmed operation of SSSV by opening with control line and closed again by bleeding off to 0 psi. Re-opened SSSV and pressure tested for 15 mins.
СТВ	Р	RCM	1930	2200	2.50	1806.0m	Closed lower annular around slick joint and pressure tested to 3000 psi - leak on surface lines - bled down pressure. Tested surface lines to choke valve 3000 psi / 10



DRILLING MORNING REPORT # 20 Casino-5 (03 Jul 2005)

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
СТВ	TP (PT)	RCM	2200	2400	2.00	1806.0m	mins. Pressure held. Pressure tested lower annular to AAV via choke cline - held 3000 psi / 10 mins. Opened lower annular. Opened AAV and PMV. Closed 10-3/4" pipe rams. Increase pressure to test against TH isolation sleeve - not holding. No change in CSM. Closed PMV and successfully pressure tested to 3000 psi / 10 minutes. Discussed go forward - RIH to retrieve TH isolation sleeve and replace with back-up isolation sleeve.

Operations For Period 0000 Hrs to 0600 Hrs on 04 Jul 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
СТВ	Р	RCM	0000	0100	1.00	1806.0m	Recovered TH isolation sleeve. Laid down isolation sleeve and inspected. No damage evident - seals in good condition.
СТВ	P	RCM	0100	0315	2.25	1806.0m	PU and RIH back-up TH isolation sleeve, POOH slickline. Pressure tested against TH Isolation Sleeve to 200 psi - pressure observed at choke manifold (TH isolation sleeve leaking). Broke out lubricator and inspected sleeve Running Tool. Fully sheared out - confident sleeve down. Repaired tool and RIH to retrieve TH isolation sleeve - POOH and broke out lubricator. Inspected TH isolation sleeve - pins not sheared, indicating not set in profile.
СТВ	P	RCM	0315	0500	1.75	1806.0m	MU toolstring, RIH and set TH isolation sleeve in profile - (left TH isolation sleeve attached to slickline). Attempted to pressure test against TH Isolation Sleeve to 200 psi, drain line left open and fluid returns observed - TH isolation sleeve not sealing. PU and re-set TH isolation sleeve. Attempted to pressure test against TH Isolation sleeve to 200 psi, fluid returns via drain line - sleeve not set. POOH and Inspected isolation sleeve - pins not sheared.
СТВ	P	RCM	0500	0600	1.00	1806.0m	MU toolstring with bow spring centraliser, RIH and set TH isolation sleeve in profile. Attempted to pressure test against TH Isolation Sleeve to 200 psi, drain line left open and fluid returns observed - TH isolation sleeve not sealing. POOH and recovered tool string. Sheared GS pins - replaced pins to RIH to retrieve TH isolation sleeve.

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Fuel	m3	0	9.3	-0.1	272.1	Santos	7
Drill Water	m3	0	12.1	0	523.0	DOGC	42
Potable Water	m3	29	29	0	253.9	ESS	8
Gel	sx	0	0	0	1,915.0	Dowell	2
Cement	sx	0	0	0	2,450.0	Geoservices	2
Barite	sx	0	0	0	2,073.0	Fugro	6
KCI Brine	bbl	0	0	0	0.0	Cameron	4
						Weatherford	4
						Expro	16
						Baker Oil Tools	1
						Halliburton	1
						Expro	1
						Total	94

Casing	9			
OD	L.O.T. / F.I.T.	Csg Shoe (MD/TVD)	Cementing	
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2	
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2	
340	2.08sg / 0sg	654.8m / 654.8m	Lead: 258 bbl, 12.5 ppg, Class G Tail: 91 bbl, 15.8 ppg, Class G	
244	0sg / 0sg	1719.8m / 1716.0m	Lead: 9 m3 (57 bbl) 1.5 sg (12.5 ppg) Class G Tail: 7.5 m3 (47 bbl) 1.9 sg (15.8 ppg) Class G	



HSE Summary			
Events	Date of Last	Days Since	Remarks
Abandon Drill	03 Jul 2005	0 Days	Abandon Drill
BOP Test	21 Jun 2005	12 Days	BOP Test
Environmental Incident	02 May 2005	62 Days	None reported since commencement of campaign.
Fire Drill	03 Jul 2005	0 Days	Fire Drill
First Aid	04 May 2005	60 Days	Person struck on nose with metal bar
Lost Time Incident	02 May 2005	62 Days	None reported since commencement of campaign.
Man Overboard Drill	18 Jun 2005	15 Days	Man Overboard Drill
Near Miss	20 Jun 2005	13 Days	Failed compensator tensioner cable, release of compensator fluid.
Safety Meeting	03 Jul 2005	0 Days	Weekly Safety Meeting
Stop Cards	03 Jul 2005	0 Days	6 Stop Cards

Marine									
Weather che	eck on 03 Jul 2	2005 at 2400	Rig Support						
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (mt)
18.5km	17km/h	270deg	1027.00bar	13.0C°	0.3m	270deg	1m/sec	1	11.61
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather	Comments	2	12.52
0.5deg	0.5deg	0.50m	2.5m	225deg	2m/sec	Part	Cloud	3	12.29
	o.ouog		2.0111	LLOGOS	2111/000	ı arı	Oloda	4	8.12
Rig Dir.	Ris. Tension	VDL		Comments				5	10.70
251.0deg	12.25mt	202.07mt						6	12.02
			7	13.61					
								8	12.11

Boats	Arrived (date/time)	Departed (date/time)	Status	В	Bulks			
Far Grip		18:20	Portland	Item	Unit	Quantity		
				Fuel	m3	357		
				Drill Water	m3	527		
				Potable Water	m3	408		
				Gel	t	42		
				Cement	t	76		
				Barite	t	0		
				NaCl Brine	bbl	0		
Pacific	16:45		Ocean Patriot	Item	Unit	Quantity		
Wrangler				Fuel	m3	485.5		
				Drill Water	m3	433		
				Potable Water	m3	259		
				Gel	t	43		
				Cement	t	42		
				Barite	t	37		
				KCI Brine	bbl	0		

Helicopter Movement Flight # Time Destination Comment

Flight #	Time	Destination	Comment	Pax
1	09:24	Ocean Patriot		4
1	09:35	Essendon		4

Lessons Learned

Categories		Event Descr.	Post Event Descr.	Lesson		
Short Descr.	Test SSSV control line after locking TH			Section 13.3 confirming SSSV operation via control line - should be inserted after section 13.2.16, after		
Phase	Completion			the TH has been locked.		
Category						
Resp. Party						
Closed/Open	Open					



		From:	Ron King, Mi	ke Andronov			
		OIM:	Barry Scott				
Well Data							
Country	Australia	M. Depth	1806.0m	Cur. Hole Size	216mm	AFE Cost	
Field	Casino	TVD	1802.0m	Casing OD	244mm	AFE No.	5746022
Drill Co.	DOGC	Progress	0m	Shoe TVD	1716.0m	Daily Cost	
Rig	Ocean Patriot	Days from spud	18.21	F.I.T. / L.O.T.	0sg / 0sg	Cum Cost	
Wtr Dpth(LAT)	68.2m	Days on well	20.13			Planned TD	1788.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600	Retrieving ⁻	TH wireline short pro	otection sleeve.	11	
RT-ML	89.7m	Planned Op	Install tubin string. Insta		down pressure	control equipment	and recover landing

Summary of Period 0000 to 2400 Hrs

RIH and set TH Isolation sleeve. Displaced tubing to diesel. Set upper completion packer. Commenced clean up flow.

Formations										
Name	Top (MD)	Top (TVD)	Comment							

Operations For Period 0000 Hrs to 2400 Hrs on 04 Jul 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
СТВ	TP (PT)	RIC	0000	0100	1.00	1806.0m	Recovered TH isolation sleeve. Laid down isolation sleeve and inspected. No damage evident - seals in good condition.
СТВ	TP (PT)	RIC	0100	0315	2.25	1806.0m	PU and RIH back-up TH isolation sleeve, POOH slickline. Pressure tested against TH Isolation Sleeve to 200 psi - pressure observed at choke manifold (TH isolation sleeve leaking). Broke out lubricator and inspected sleeve Running Tool. Fully sheared out - confident sleeve down. Repaired tool and RIH to retrieve TH isolation sleeve - POOH and broke out lubricator. Inspected TH isolation sleeve - pins not sheared, indicating not set in profile.
СТВ	TP (PT)	RIC	0315	0500	1.75	1806.0m	MU toolstring, RIH and set TH isolation sleeve in profile - (left TH isolation sleeve attached to slickline). Attempted to pressure test against TH Isolation Sleeve to 200 psi, drain line left open and fluid returns observed - TH isolation sleeve not sealing. PU and re-set TH isolation sleeve. Attempted to pressure test against TH Isolation sleeve to 200 psi, fluid returns via drain line - sleeve not set. POOH and inspected isolation sleeve - pins not sheared.
СТВ	TP (PT)	RIC	0500	0700	2.00	1806.0m	MU toolstring with bow spring centraliser, RIH and set TH isolation sleeve in profile. Attempted to pressure test against TH Isolation Sleeve to 200 psi, drain line left open and fluid returns observed - TH isolation sleeve not sealing. POOH and recovered tool string. Sheared GS pins - replaced pins and RIH and retrieved TH isolation sleeve. Rigged up TH isolation sleeve with no snap ring installed.
СТВ	P	RCM	0700	0830	1.50	1806.0m	RIH and set TH isolation sleeve in TH with no snap ring installed. POOH. Pressure tested using rig choke line below the closed 10 3/4" rams to 4000psi / 10 minutes. Monitored CSM and pressure sensor downstream of PWV. Made up TH isolation sleeve retrieval tool assenbly and retrieved TH isolation sleeve. [Opened SSSV with 6500psi control line pressure. Pressure test tested: 10 3/4" rams, TH production bore seals from production sie, AMV from above, Upper TH seals from above, the PWV from the production side].
СТВ	P	RCM	0830	1000	1.50	1806.0m	Made up RIH and set TH protection sleeve toolstring in THRT. POOH running tools. Made up 4.625" RNQN standing valve toolstring. Pressure tested surface welltest lines and slickline PCE to 5000psi / 10 minutes against MV. Lined up rig lines for diesel displacement. [offline - conducted JSA for displacement of diesel. Closed PMV and CSM. Opened AMV.]
СТВ	TP (RE)	RCM	1000	1115	1.25	1806.0m	Troubleshot rig diesel feed pump failure.
СТВ	P	RCM	1115	1315	2.00	1806.0m	Displaced 185bbl diesel at 1.6BPM from cement unit down tubing string. Chased with 3bbl seawater. Shut in THP after pumping diesel cushion 810psi.
СТВ	P	RCM	1315	1500	1.75	1806.0m	Equalised across SV and RIH and attempted to installed 4.625" RNQN standing valve in QN nipple proflie at 1650m. Unable to shear running tools from standing valve. Attempted to pressure test above standing valve to 1300psi with no success. Retrieved running tools to surface and inspected - 3" SB running tool damaged. Pins sheared.
СТВ	P	RCM	1500	1700	2.00	1806.0m	Made up UPT slickline toolstring. RIH and and latched onto 4.625" RNQN standing valve. Attemped to pressure above standing valve with no success. Jarred down on standing valve. Pressured above standing valve to 1300psi to confirm set. Pressured tubing 2000psi / 10 minutes. Pressured to 4000psi / 10 minutes to set Production Packer and test production tubing.



Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
							[Shut in THP = 790psi]
СТВ	P	RCM	1700	1800	1.00	1806.0m	Bled tubing pressure to 1100psi and attempted to release from UPT from standing valve. Slickline winch drive chain failed. Closed XOV and opened PMV. Pressure tested annulus down rig choke line below closed 10 3/4" rams to 3000psi / 10 minutes. [THP increased to 1300psi during annulus test. Offline - repaired slickline winch and commenced POOH with UPT toolstring]
СТВ	Р	RIC	1800	1845	0.75	1806.0m	Performed leak off test on AMV to 3,000 psi. Equalised pressure from cement unit, opened AMV and bled annulus pressure to 100 psi. Closed PMV on XT, closed SV and opened KWV on flowhead.
СТВ	Р	RIC	1845	1915	0.50	1806.0m	Pressured tubing to 4,000 psi from cement unit, closed SSSV and bled pressure above to 1,500 psi for leak off test on SSSV.
СТВ	Р	RIC	1915	1945	0.50	1806.0m	Equalised above SSSV from cement unit to 3,750 psi. Applied opening pressure to SSSV and observed tubing pressure increase to 4,000 psi indicating SSSV opened.
СТВ	Р	RIC	1945	2045	1.00	1806.0m	Made up GS tool to retrieve standing valve. Opened MV on flowhead and RIH to retrieve standing valve.
СТВ	Р	RIC	2045	2130	0.75	1806.0m	Retrieved standing valve to surface, closed MV on flowhead and bled pressure from well test choke manifold. (Offline- Conducted Pre Flow JSA).
СТВ	Р	RIC	2130	2200	0.50	1806.0m	Closed SV and MV on flowhead, retrieved standing valve and installed GS tool to retrieve bore protector.
СТВ	Р	PT	2200	2245	0.75	1806.0m	Opened SV on flowhead and pressure tested to 4000 psi. Bled off at well test choke manifold. Closed SV on flowhead, equalised above MV to 1100 psi with cement unit, opened MV and closed KWV on flowhead.
СТВ	Р	OA	2245	2400	1.25	1806.0m	Opened well at choke manifold, taking 50 bbl of diesel returns to surge tank, then directing flow to burners for clean up flow.

Operations For Period 0000 Hrs to 0600 Hrs on 05 Jul 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
СТВ	Р	OA	0000	0045	0.75	1806.0m	Continued cleaning up well on 56/64" fixed choke to flare.
СТВ	Р	OA	0045	0130	0.75	1806.0m	ESD tripped shutting in well. (Leak in pilot air hose). Repaired leak and opened well at choke manifold. Increased choke to 60/64" fixed choke.
СТВ	Р	OA	0130	0415	2.75	1806.0m	Passed flow through separator, acquired samples as per programme & shut in well at choke manifold.
СТВ	Р	OA	0415	0500	0.75	1806.0m	Held JSA prior to well suspension operations. Closed SSSV and bled off above to 100 psi using the Well Test choke manifold. Bled pressure to 0 psi at end of test.
СТВ	Р	OA	0500	0530	0.50	1806.0m	Pumped 26 bbls of Water / Glycol 50/50 mix above SSSV.
СТВ	Р	OA	0530	0600	0.50	1806.0m	Opened SV on flowhead and retrieved TH wireline short protection sleeve. Pulled back to surface closed, MV and SV on flowhead.

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Fuel	m3	0	19.8	0	252.3	Santos	8
Drill Water	m3	0	12	0	511.0	DOGC	43
Potable Water	m3	28	31.3	0	250.6	ESS	8
Gel	sx	0	0	0	1,915.0	Dowell	2
Cement	sx	0	0	0	2,450.0	Geoservices	2
Barite	sx	0	0	0	2,073.0	Fugro	6
KCI Brine	bbl	0	0	0	0.0	Cameron	3
						Weatherford	4
						Expro	16
						Baker Oil Tools	1
						Halliburton	1
						Expro	1
						Total	95



Casing)			
OD	L.O.T. / F.I.T.	Csg Shoe (MD/TVD)	Cementing	
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2	
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2	
340	2.08sg / 0sg	654.8m / 654.8m	Lead: 258 bbl, 12.5 ppg, Class G Tail: 91 bbl, 15.8 ppg, Class G	
244	0sg / 0sg	1719.8m / 1716.0m	Lead: 9 m3 (57 bbl) 1.5 sg (12.5 ppg) Class G Tail: 7.5 m3 (47 bbl) 1.9 sg (15.8 ppg) Class G	

HSE Summary			
Events	Date of Last	Days Since	Remarks
Abandon Drill	03 Jul 2005	1 Day	Abandon Drill
BOP Test	03 Jul 2005	1 Day	BOP Test
Environmental Incident	02 May 2005	63 Days	None reported since commencement of campaign.
Fire Drill	03 Jul 2005	1 Day	Fire Drill
First Aid	03 Jul 2005	1 Day	Person injured knee walking down stairs
Lost Time Incident	02 May 2005	63 Days	None reported since commencement of campaign.
Man Overboard Drill	18 Jun 2005	16 Days	Man Overboard Drill
Near Miss	20 Jun 2005	14 Days	Failed compensator tensioner cable, release of compensator fluid.
Safety Meeting	03 Jul 2005	1 Day	Weekly Safety Meeting
Stop Cards	04 Jul 2005	0 Days	6 Stop Cards

Marine	Marine										
Weather che	eck on 04 Jul 2	2005 at 2400	Rig Support								
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (mt)		
18.5km	43km/h	000deg	1023.00bar	14.0C°	1.0m	000deg	1m/sec	1	11.39		
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather	Comments	2	12.52		
0.5deg	0.6deg	1.00m	2.5m	225deg	2m/sec			3 4	12.70 8.48		
Rig Dir.	Ris. Tension	VDL		Comments				5	10.61		
251.0deg	12.25mt	204.57mt						6	11.88		
								- 7	13.20		
								8	11.52		

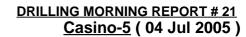
Boats	Arrived (date/time)	Departed (date/time)	Status	В	ulks	
Far Grip			Ocean Patriot	Item	Unit	Quantity
				Fuel	m3	438
				Drill Water	m3	527
				Potable Water	m3	584
				Gel	t	42
				Cement	t	76
				Barite	t	37
				NaCl Brine	bbl	0
Pacific			Ocean Patriot	Item	Unit	Quantity
Wrangler				Fuel	m3	475.9
				Drill Water	m3	433
				Potable Water	m3	254
				Gel	t	43
				Cement	t	42
				Barite	t	37
				KCI Brine	bbl	0

Helicopter Movement

Flight #	Time	Destination	Comment	Pax
1	09:57	Ocean Patriot		4
1	10:01	Essendon		3

Lessons Learned

Categories		Event Descr.	Post Event Descr.	Lesson		
Short Descr.	XT Isolation sleeve	Isolation sleeve failed external test, pulled sleeve to inspect, several	Removed lock ring to facilitate easy setting.	Review installation and testing procedure for isolation sleeve inside		
Phase	Completion	attempts failed to reset sleeve, finally removed lock ring to simplify		TH during FAT/SIT		
Category		setting. Suspect problem was incomplete setting of sleeve.				
Resp. Party	Santos	moonpiete setting of sieeve.				
Closed/Open	Open					





Lessons Lea	arned					
Categories		Event Descr.	Post Event Descr.	Lesson		
Short Descr.	Pressure testing lubricator step 14.3.26	Step 14.3.26 of the Casino 5 Completion programme calls for lubricator to be split at cromar sub,	Disconnected lubricator below BOP to install GS pulling tool. Pressure tested lubricator with	Confirm lubricator connection to be broken for each tool string		
Phase	Completion	this is not possible with the 7" GS tool.	cement unit			
Category						
Resp. Party	Santos	_				
Closed/Open	Open					
Short Descr.	Contingency plug for SSSV	When problems were experienced with the Isolation sleeve a plug to	Isolation sleeve retrieved and rerun without lock ring.	Review supply of blanking plug to fit SSSV profile to provide an		
Phase	Completion	set in the SSSV may have been a useful option for trouble shooting		additional means of testing the string above.		
Category]				
Resp. Party	Santos					
Closed/Open	Open	_				
Short Descr.	Standing valve premature release from running tool	Whilst RIH with the standing valve on the SB running tool, valve release from the running tool on encountering the hold up around the	Several attempts made before successfully re-latching tool.	Review need for 5" chemcial cut tubing restriction. Review running procedure, in particular check pulling running		
Phase	Completion	restriction at the chemical cutter 5" tubing. difficulty re-latching hte tool		weights prior to encountering restrictions such as chemical cutter.		
Category		inside the 7" tubing bore. SB tool tended to run between fishing neck		Review running centraliser above		
Resp. Party	Santos	and tubing wall		SB running tool when retrieveing Standing valve.		
Closed/Open	Open					



		From :	Ron King, Pa	at King			
		OIM:	Barry Scott				
Well Data							
Country	Australia	M. Depth	1806.0m	Cur. Hole Size	216mm	AFE Cost	
Field	Casino	TVD	1802.0m	Casing OD	244mm	AFE No.	5746022
Drill Co.	DOGC	Progress	0m	Shoe TVD	1716.0m	Daily Cost	
Rig	Ocean Patriot	Days from spud	19.21	F.I.T. / L.O.T.	0sg / 0sg	Cum Cost	
Wtr Dpth(LAT)	68.2m	Days on well	21.25			Planned TD	1788.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600	Laying out	SSTT / THRT asser	mbly.		
RT-ML	89.7m	Planned Op	Complete I	aying out SSTT / Th	IRT. Retrieve B	OPs & Riser.	

Summary of Period 0000 to 2400 Hrs

Completed well clean up flow. Retrieved TH short protection sleeve. Ran TH plug and tested. Layed out flowhead. Jetted wellhead. Commenced running ITC.

Operations For Period 0000 Hrs to 2400 Hrs on 05 Jul 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
СТВ	Р	OA	0000	0045	0.75	1806.0m	Continued cleaning up well on 56/64" fixed choke to flare.
СТВ	Р	OA	0045	0130	0.75	1806.0m	ESD tripped shutting in well. (Leak in pilot air hose). Repaired leak and opened well at choke manifold. Increased choke to 60/64" fixed choke.
СТВ	Р	OA	0130	0415	2.75	1806.0m	Passed flow through separator, acquired samples as per programme & shut in well at choke manifold.
СТВ	Р	OA	0415	0500	0.75	1806.0m	Held JSA prior to well suspension operations. Closed SSSV and bled off above to 100 psi using the Well Test choke manifold. Bled pressure to 0 psi at end of test.
СТВ	Р	OA	0500	0530	0.50	1806.0m	Pumped 26 bbl of Water / Glycol 50/50 mix above SSSV.
СТВ	P	SLK	0530	0730	2.00	1806.0m	Opened SV on flowhead and retrieved TH wireline short protection sleeve. Closed AMV and opened XOV and PMV. Made up 6.70" TH plug toolstring and pressure tested slickline luricator to 5000 psi. RIH and seated TH plug in TH. Pressured up to 3000 psi and jarred with slickline to set plug/release running tools. POOH slickline and pressure tested above the TH plug to 5000 psi for 10 minutes.
СТВ	P	OA	0730	1000	2.50	1806.0m	Pressure below closed 10 3/4" rams to 1000psi using the rig choke line to test the 6.70" TH plug from below. Pressure increased to 1300psi due to thermal expansion. Bleed off pressure to 30psi using rig choke and monitor offline. Pumped across flowhead to welltest choke with drill water at 3BPM to flush welltest equipment. Rigged down slickline lubricator. [Offline - Annulus pressure built up by 10 psi build up in 20 minutes. Bled off pressure to 0psi. Closed PMV. Closed XOV. Opened AMV and monitored for pressure - no pressure. Closed AMV]
СТВ	P	OA	1000	1300	3.00	1806.0m	Set down 10k at THRT/TH interface and opened 10 3/4" rams. Vented TH LOCK and performed TH UNLATCH. Overpuled 25k above landing string weight to release THRT from TH. Pull 8m above wellhead and set slips. Rigged down lubricator drain valves and slickline BOP's. Rigged down co-flexip and kill hose from flowhead. Clear rig floor. Rigged up 9 5/8" casing tong.
СТВ	P	OA	1000	1300	3.00	1806.0m	Set down 10,000 lb at THRT/TH interface and opened 10-3/4" rams. Vented TH LOCK and performed TH UNLATCH. Overpulled 25,000 lb above landing string weight to release THRT from TH. Pull 8 m above wellhead and set slips. Rigged down lubricator drain valves and slickline BOP's. Rigged down co-flexip and kill hose from flowhead. Clear rig floor. Rigged up 9-5/8" casing tong.
СТВ	Р	HT	1300	1730	4.50	1806.0m	Broke out flowhead saver pup and landing joint. Laid down flowhead. Displaced choke, kill and booster lines. Laid down 15 m (50 ft) bails and 500 ton elevators.
СТВ	Р	HT	1730	2100	3.50	1806.0m	POH and laid down 9-5/8" landing string. Racked back Sub sea test tree (SSTT) / Tubing hanger running tool (THRT) assembly. Opened Tree Cap Test (TCT) line on XT with ROV and flushed through to confirm no blockages.
СТВ	Р	XT	2100	2200	1.00	1806.0m	RIH with 5" DP open ended to 81 m. Jetted wellhead / XT. POH and racked back jetting string.
СТВ	Р	XT	2200	2400	2.00	1806.0m	Picked up Internal Tree Cap (ITC) and made up to SSTT / THRT assembly. RIH on 9-5/8" landing string.

Operations For Period 0000 Hrs to 0600 Hrs on 06 Jul 2005

Phse	Cls (RC)	Op	From	То	Hrs	Depth	Activity Description
СТВ	Р	XT	0000	0145	1.75	1806.0m	Continued to RIH with SSTT / THRT assembly c/w ITC on 9-5/8" landing string to hang off point.
СТВ	P	XT	0145	0245	1.00	1806.0m	Set down 10,000 lb. Checked index line. Set down 20,000 lb Closed lower annular. Confirmed choke closed and opened Annulus Master Valve (AMV). Confirmed 0 psi in annulus. Pressured up below annular to 3,000 psi for 10 min. Locked ITC with 3,000 psi lock pressure whilst holding annulus pressure. Bled off annulus pressure and re-locked with 3,000 psi lock pressure - positive indication on lock monitor. Confirmed with 60,000 lb overpull.



DRILLING MORNING REPORT # 22 Casino-5 (05 Jul 2005)

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
СТВ	Р	XT	0245	0345	1.00	1806.0m	Flushed TCT line to confirm clear. Closed AMV and AAV. Pressure tested ITC to 5000 psi. Closed TCT valve with ROV.
СТВ	Р	XT	0345	0600	2.25	1806.0m	Released SSTT / THRT assembly from ITC (25,000 lb overpull). POH with SSTT / THRT assembly, laying out 9-5/8" landing string.

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Fuel	m3	0	18.6	0	233.7	Santos	5
Drill Water	m3	0	24.1	0	486.9	DOGC	43
Potable Water	m3	29	31.2	0	248.4	ESS	8
Gel	sx	0	0	0	1,915.0	Dowell	1
Cement	sx	0	0	0	2,450.0	Geoservices	2
Barite	sx	0	0	0	2,073.0	Fugro	6
KCI Brine	bbl	0	0	0	0.0	Cameron	3
						Weatherford	2
						Expro	10
						Fugro - Surveyor	2
						Total	82

Casin	g			
OD	L.O.T. / F.I.T.	Csg Shoe (MD/TVD)	Cementing	
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2	
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2	
340	2.08sg / 0sg	654.8m / 654.8m	Lead: 258 bbl, 12.5 ppg, Class G Tail: 91 bbl, 15.8 ppg, Class G	
244	0sg / 0sg	1719.8m / 1716.0m	Lead: 9 m3 (57 bbl) 1.5 sg (12.5 ppg) Class G Tail: 7.5 m3 (47 bbl) 1.9 sg (15.8 ppg) Class G	

HSE Summary			
Events	Date of Last	Days Since	Remarks
Abandon Drill	03 Jul 2005	2 Days	Abandon Drill
BOP Test	03 Jul 2005	2 Days	BOP Test
Environmental Incident	02 May 2005	64 Days	None reported since commencement of campaign.
Fire Drill	03 Jul 2005	2 Days	Fire Drill
First Aid	04 May 2005	62 Days	Person struck on nose with metal bar
Lost Time Incident	02 May 2005	64 Days	None reported since commencement of campaign.
Man Overboard Drill	18 Jun 2005	17 Days	Man Overboard Drill
Near Miss	20 Jun 2005	15 Days	Failed compensator tensioner cable, release of compensator fluid.
Safety Meeting	03 Jul 2005	2 Days	Weekly Safety Meeting
Stop Cards	05 Jul 2005	0 Days	3 Stop Cards

Marine										
Weather ch	eck on 05 Jul 2	2005 at 2400	1					Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (mt)	
18.5km	46km/h	000deg	1022.00bar	13.0C°	1.0m	000deg	1m/sec	1	11.39	
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather	Comments	2	12.38	
0.6452	0 Edoa	1.00m	2.0m	225400	200/000			3	12.29	
0.6deg	0.5deg	1.00m	3.0m	225deg	2m/sec			4	7.98	
Rig Dir.	Ris. Tension	VDL		Comments				5	11.02	
251.0deg	12.25mt	193.73mt						6	12.20	
								7	13.29	
								8	11.79	



DRILLING MORNING REPORT # 22 Casino-5 (05 Jul 2005)

Boats	Arrived (d	ate/time)	Departed (date/time)	Status		Bulks	
Far Grip				Ocean Patriot	Item	Unit	Quantity
					Fuel	m3	426
					Drill Water	m3	527
					Potable Water	m3	581
					Gel	t	42
					Cement	t	76
					Barite	t	37
					NaCl Brine	bbl	0
Pacific				Portland	Item	Unit	Quantity
Wrangler					Fuel	m3	465.6
					Drill Water	m3	433
					Potable Water	m3	254
					Gel	t	43
					Cement Barite	t	42 37
					KCI Brine	bbl	0
Helicopter	Movement				rioi Billio		, , ,
Flight #	Time		Destination		Comment		Pax
1	10:02	Ocean Patriot					13
1	10:15	Essendon					14
2	15:53	Ocean Patriot					2
2	16:08	Essendon					9



		From :	Ron King, Pa	t King					
		OIM:	Barry Scott						
Well Data									
Country	Australia	M. Depth	1806.0m	Cur. Hole Size	216mm	AFE Cost			
Field	Casino	TVD	1802.0m	Casing OD	244mm	AFE No.	5746022		
Drill Co.	DOGC	Progress	0m	Shoe TVD	1716.0m	Daily Cost			
Rig	Ocean Patriot	Days from spud	20.21	F.I.T. / L.O.T.	0sg / 0sg	Cum Cost			
Wtr Dpth(LAT)	68.2m	Days on well	22.13			Planned TD	1788.0m		
RT-ASL(LAT)	21.5m	Current Op @ 0600	Waiting on weather to pull BOP through splash zone.						
RT-ML	89.7m	Planned Op	Retrieve BOP. Install corrosion cap on XT. Lay out drill pipe. Pull anchors.						

Summary of Period 0000 to 2400 Hrs

Ran ITC. Commenced retrieval of BOP and riser. Waited on weather to pull BOP through splash zone.

Operations For Period 0000 Hrs to 2400 Hrs on 06 Jul 2005

Phse	Cls (RC)	Op	From	То	Hrs	Depth	Activity Description			
СТВ	Р	XT	0000	0145	1.75	1806.0m	Continued to RIH with SSTT / THRT assembly c/w ITC on 244 mm (9-5/8") landing string to hang off point.			
СТВ	P	XT	0145	0245	1.00	1806.0m	Set down 4.5 t (10,000 lb). Checked index line. Set down 9 t (20,000 lb). Closed lower annular. Confirmed choke closed and opened Annulus Master Valve (AMV). Confirmed 0 psi in annulus. Pressured up below annular to 20,700 kPa (3,000 psi) for 10 min. Locked ITC with 20,700 kPa (3,000 psi) lock pressure whilst holding annulus pressure. Bled off annulus pressure and re-locked with 20,700 kPa (3,000 psi) lock pressure - positive indication on lock monitor. Confirmed with 27 t (60,000 lb) overpull.			
СТВ	Р	XT	0245	0345	1.00	1806.0m	34,500 kPa (5000 psi). Closed TCT valve with ROV.			
СТВ	Р	XT	0345	0700	3.25	1806.0m	SSTT / THRT assembly, laying out 244 mm (9-5/8") landing string.			
СТВ	Р	RR2	0700	0800	1.00	1806.0m	Rigged down umbilical hose and sheave from derrick and rigged up riser handling equipment.			
СТВ	Р	RR2	0800	0930	1.50	1806.0m	Held JSA - retrieving riser & BOP. Picked up diverter running tool and made up diverter. Retrieved diverter and laid out same.			
СТВ	Р	RR2	0930	1100	1.50	1806.0m	Picked up riser landing joint and made up same. Collapsed slip joint and locked. [Offline: Removed IWOCS free plate from XT and installed on deployment plate. Recovered IWOCS umbilical and deployment plate to moonpool]			
СТВ	Р	RR2	1100	1200	1.00	1806.0m	Removed IWOCS tooling from ROV.			
СТВ	Р	RR2	1200	1230	0.50	1806.0m	Unlatched BOP and pulled clear of guidebase to nipple down choke, kill and booster lines.			
СТВ	TP (RE)	RR2	1230	1430	2.00	1806.0m	Moved rig 23 m (75 ft) off location whilst attempting to lock compensator lock bar. [Offline: ROV installed bridge plate onto XT. Recovered parking plate to surface.]			
CTB	Р	RR2	1430	1530	1.00	1806.0m	Lifted BOP stack and latched SDL ring.			
СТВ	Р	RR2	1530	1800	2.50	1806.0m	Nippled down choke, kill and booster lines from slip joint. Rigged down storm saddles, goose necks and pod hose saddle.			
CTB	Р	RR2	1800	2000	2.00	1806.0m	Laid out riser landing joint and slip joint. [Offline: Commenced ROV video survey. Installed long term marine growth covers on XT]			
СТВ	Р	RR2	2000	2130	1.50	1806.0m	Pulled BOP through splash zone and attempted to land on carrier. Bent aft guidepost on stack due to swell.			
СТВ	TP (WOW)	RR2	2130	2400	2.50	1806.0m	Wait on weather to retrieve BOP. Ran BOP back through splash zone.			
							21:00 Swell - 3 m, Roll - 0.5 deg, Pitch - 0.6 deg 22:00 Swell - 3 m, Roll - 0.5 deg, Pitch - 0.5 deg 23:00 Swell - 3 m, Roll - 0.5 deg, Pitch - 0.75 deg 24:00 Swell - 3 m, Roll - 1 deg, Pitch 1 deg			

Operations For Period 0000 Hrs to 0600 Hrs on 07 Jul 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
СТВ	TP (WOW)	RR2	0000	0600	6.00	1806.0m	Waited on weather, prior to pulling BOP through splash zone. 01:00 Swell - 4 m, Pitch - 1 deg, Roll - 1 deg 02:00 Swell - 4 m, Pitch - 0.8 deg, Roll - 0.8 deg 04:00 Swell - 4 m, Pitch - 0.8 deg, Roll - 0.8 deg 06:00 Swell - 4 m, Pitch - 0.8 deg, Roll - 0.8 deg



Bulk Stocks						Personnel On Board			
Name	Unit	In	Used	Adjust	Balance	Company	Pax		
Fuel	m3	0	9.3	0	224.4	Santos	6		
Drill Water	m3	0	18.1	0	468.8	DOGC	48		
Potable Water	m3	27	28.4	0	247.0	ESS	8		
Gel	sx	0	0	0	1,915.0	Dowell	1		
Cement	sx	0	0	0	2,450.0	Geoservices	2		
Barite	sx	0	0	0	2,073.0	Fugro	6		
KCI Brine	bbl	0	0	0	0.0	Cameron	1		
						Fugro - Surveyor	2		
						MO47	4		
						MI	1		
						Dril-Quip	1		
						Other	2		
						Total	82		

Casin	g			
OD	L.O.T. / F.I.T.	Csg Shoe (MD/TVD)	Cementing	
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2	
340	2.08sg / 0sg	654.8m / 654.8m	Lead: 258 bbl, 12.5 ppg, Class G Tail: 91 bbl, 15.8 ppg, Class G	
244	0sg / 0sg	1719.8m / 1716.0m	Lead: 9 m3 (57 bbl) 1.5 sg (12.5 ppg) Class G Tail: 7.5 m3 (47 bbl) 1.9 sg (15.8 ppg) Class G	

HSE Summary			
Events	Date of Last	Days Since	Remarks
Abandon Drill	03 Jul 2005	3 Days	Abandon Drill
BOP Test	03 Jul 2005	3 Days	BOP Test
Environmental Incident	02 May 2005	65 Days	None reported since commencement of campaign.
Fire Drill	03 Jul 2005	3 Days	Fire Drill
First Aid	04 May 2005	63 Days	Person struck on nose with metal bar
Lost Time Incident	02 May 2005	65 Days	None reported since commencement of campaign.
Man Overboard Drill	18 Jun 2005	18 Days	Man Overboard Drill
Near Miss	20 Jun 2005	16 Days	Failed compensator tensioner cable, release of compensator fluid.
Safety Meeting	03 Jul 2005	3 Days	Weekly Safety Meeting
Stop Cards	06 Jul 2005	0 Davs	3 Stop Cards

Marine									
Weather ch	eck on 06 Jul 2	2005 at 2400	1					Rig Support	
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (mt)
18.5km	37km/h	293deg	1023.00bar	12.0C°	2.0m	293deg	1m/sec	1	10.89
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather	Comments	2	10.48
0.5deg	1.0deg	1.00m	3.0m	225deg	2m/sec			- 3 4	10.30 4.81
Rig Dir.	Ris. Tension	VDL	1	Comments	"			5	12.20
251.0deg	12.25mt	172.82mt						6	11.20
								7	12.29
								8	11.79



DRILLING MORNING REPORT # 23 Casino-5 (06 Jul 2005)

Boats	Arrived (dat	e/time)	Departed (date/time)	Status		Bulks		
Far Grip				Ocean Patriot		Item U	nit	Quantity
					Fuel		m3	415
					Drill Water		m3	527
					Potable Wat	er	m3	577
					Gel		t	42
					Cement		t	76
					Barite		t	37
					NaCl Brine		bbl	0
Pacific				Portland		ltem Ui	nit	Quantity
Wrangler					Fuel		m3	542.3
					Drill Water		m3	438
					Potable Wat	er	m3	311
					Gel		t	43
					Cement		t	42
					Barite		t	37
					KCI Brine		bbl	0
Helicopte	r Movement							
Flight #	Time		Destination		Comment			Pax
1	12:07 O	cean Patriot						10
1	12:23 E:	ssendon						15



		From :	Ron King, Pa	t King			
		OIM:	Barry Scott				
Well Data							
Country	Australia	M. Depth	1806.0m	Cur. Hole Size	216mm	AFE Cost	
Field	Casino	TVD	1802.0m	Casing OD	244mm	AFE No.	5746022
Drill Co.	DOGC	Progress	0m	Shoe TVD	1716.0m	Daily Cost	
Rig	Ocean Patriot	Days from spud	21.21	F.I.T. / L.O.T.	0sg / 0sg	Cum Cost	
Wtr Dpth(LAT)	68.2m	Days on well	23.13			Planned TD	1788.0m
RT-ASL(LAT)	21.5m	Current Op @ 0600	Rigging up	handling equipmen	t for 127 mm (5	') drill pipe.	
RT-ML	89.7m	Planned Op	Install corre	osion cap on XT. La	y out drill pipe. I	Pull anchors.	

Summary of Period 0000 to 2400 Hrs

Waited on weather to pull BOP through splash zone.

Operations For Period 0000 Hrs to 2400 Hrs on 07 Jul 2005

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
СТВ	TP (WOW)	RR2	0000	2400	24.00	1806.0m	Waited on weather, prior to pulling BOP through splash zone. 01:00 Swell - 4 m, Pitch - 1 deg, Roll - 1 deg 02:00 Swell - 4 m, Pitch - 0.8 deg, Roll - 0.8 deg 04:00 Swell - 4 m, Pitch - 0.8 deg, Roll - 0.8 deg 06:00 Swell - 4 m, Pitch - 0.8 deg, Roll - 0.8 deg 09:00 Swell - 3 m, Sea - 1.5 m, Pitch - 1.0 deg, Roll - 0.5 deg 10:00 Swell - 3 m, Sea - 1.5 m, Pitch - 0.5 deg, Roll - 0.8 deg 11:00 Swell - 3 m, Sea - 1.5 m, Pitch - 0.5 deg, Roll - 0.8 deg 12:00 Swell - 3 m, Sea - 1.5 m, Pitch - 1.0 deg, Roll - 1.0 deg 14:00 Swell - 2.5 m, Sea - 1.5 m, Pitch - 0.8 deg, Roll - 1.0 deg 18:00 Swell - 4 m, Sea - 1.0 m, Pitch - 1.0 deg, Roll - 1.0 deg 20:00 Swell - 3 m, Sea - 0.5 m, Pitch - 0.75 deg, Roll - 0.5 deg 22:00 Swell - 3 m, Sea - 0.5 m, Pitch - 0.75 deg, Roll - 0.5 deg

Operations For Period 0000 Hrs to 0600 Hrs on 08 Jul 2005

Phse	Cls (RC)	Op	From	То	Hrs	Depth	Activity Description
СТВ	TP (WOW)	RR2	0000	0145	1.75	1806.0m	Waited on weather prior to pulling BOP through splash zone. [Offline: Replaced right discharge module on mud pump #3]
СТВ	Р	RR2	0145	0230	0.75	1806.0m	Held pre-job safety meeting. Pulled BOP through splash zone into moonpool. Installed moonpool tuggers to stabilise BOP. Moved in carrier and landed out BOP on stump.
СТВ	Р	RR2	0230	0430	2.00	1806.0m	Removed moonpool tuggers. Removed guide wire pod line and hose clamps. Unlatched riser from BOP and skidded carrier out of moonpool.
СТВ	Р	RR2	0430	0600	1.50	1806.0m	Laid out riser double and rigged down riser handling equipment. Commenced rigging up handling equipment for 127 mm (5") drill pipe. Skidded rig back over location.

Bulk Stocks						Personnel On Board					
Name	Unit	In	Used	Adjust	Balance	Company	Pax				
Fuel	m3	0	0	0	224.4	Santos	3				
Drill Water	m3	0	0	0	468.8	DOGC	47				
Potable Water	m3	0	0	0	247.0	ESS	8				
Gel	sx	0	0	0	1,915.0	Dowell	1				
Cement	sx	0	0	0	2,450.0	Geoservices	2				
Barite	sx	0	0	0	2,073.0	Fugro	6				
KCI Brine	bbl	0	0	0	0.0	Cameron	1				
						Fugro - Surveyor	2				
						MO47	4				
						MI	1				
						Dril-Quip	1				
						Other	2				
						Total	78				



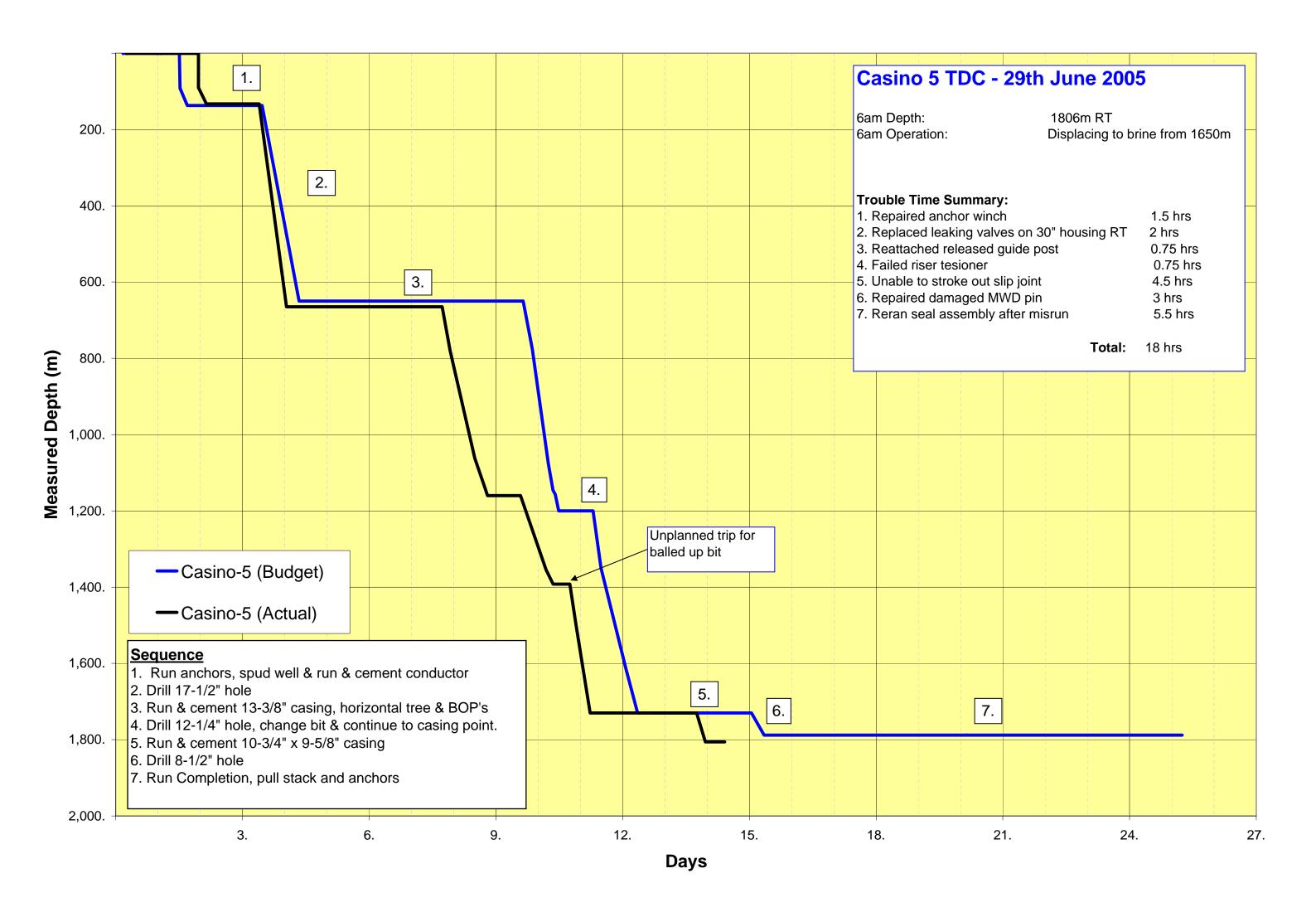
Casing	g		
OD	L.O.T. / F.I.T.	Csg Shoe (MD/TVD)	Cementing
762	0sg / 0sg	132.0m / 132.0m	199 bbl, 15.8 ppg, Class G with 1.5% BWOC CaCl2
340	2.08sg / 0sg	654.8m / 654.8m	Lead: 258 bbl, 12.5 ppg, Class G Tail: 91 bbl, 15.8 ppg, Class G
244	0sg / 0sg	1719.8m / 1716.0m	Lead: 9 m3 (57 bbl) 1.5 sg (12.5 ppg) Class G Tail: 7.5 m3 (47 bbl) 1.9 sg (15.8 ppg) Class G

HSE Summary			
Events	Date of Last	Days Since	Remarks
Abandon Drill	03 Jul 2005	4 Days	Abandon Drill
BOP Test	03 Jul 2005	4 Days	BOP Test
Environmental Incident	02 May 2005	66 Days	None reported since commencement of campaign.
Fire Drill	03 Jul 2005	4 Days	Fire Drill
First Aid	04 May 2005	64 Days	Person struck on nose with metal bar
Lost Time Incident	02 May 2005	66 Days	None reported since commencement of campaign.
Man Overboard Drill	18 Jun 2005	19 Days	Man Overboard Drill
Near Miss	20 Jun 2005	17 Days	Failed compensator tensioner cable, release of compensator fluid.
Safety Meeting	03 Jul 2005	4 Days	Weekly Safety Meeting
Stop Cards	07 Jul 2005	0 Days	1 Stop Card

Marine									
Weather ch	eck on 07 Jul	Rig Support							
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (mt)
18.5km	35km/h	225deg	1026.00bar	12.0C°	0.5m	225deg	1m/sec	1	10.61
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather	Comments	2	10.21
0.5deg	0.8deg	2.00m	3.0m	225deg	2m/sec			- 3 4	10.21 4.81
Rig Dir.	Ris. Tension	VDL		Comments				5	12.11
251.0deg	0mt	172.82mt						6	11.20
								7	12.38
								8	11.88

Boats	Arrived (d	date/time)	Departed (date/time)	Status		Bulks	
Far Grip				Ocean Patriot	Item	Unit	Quantity
					Fuel	m3	404
					Drill Water	m3	527
					Potable Water	m3	574
					Gel	t	42
					Cement	t	76
					Barite	t	37
					NaCl Brine	bbl	0
Pacific				Portland	Item	Unit	Quantity
Wrangler					Fuel	m3	531.8
					Drill Water	m3	438
					Potable Water	m3	306
					Gel	t	43
					Cement	t	42
					Barite	t	37
					KCI Brine	bbl	0
Helicopte	Movement						
Flight #	Time		Destination		Comment		Pax
1	09:59	Ocean Patriot					10
1	10:14	Essendon					14

SECTION 7: TIME / DEPTH CURVE



SECTION 8: BHA SUMMARY



BHA Record for Casino-5

Rig : Ocean Patriot Spud : 16 Jun 2005 / 19:00 Rig Release : 08 Jul 2005 / 22:00

BHA No.: 1

Param	neters				ВНА [Detail		
Date In/ Date Out	16 Jun 2005 / 17 Jun 2005	Equipment	Length	Total	OD (in)	ID (in)	Serial #	Comment
Depth In/ Depth Out (m)	89.7/133.0		(m)	Joints				
Length (m)	133.0	Bit	0.64	1	26.00	0.00	MR4109	Smith DSJC c/w 2 x 20, 2 x 22 Nozzles
Weight (Dry/ Wet) (klb)	0.0 / 0.0	Hole Opener	2.43	1	36.00	0.00	46450	4 x 24 Nozzles
Weight Blw/Jar (Dry/Wet) (klb)	0.0 / 0.0	Float Sub	1.02	1	9.50	0.00	186-0028	Ported Float
String Weight (Avg) (klb)	0	9.5in Anderdrift	3.11	1	9.56	0.00	ADB993	
Pick-Up Weight (Avg) (klb)	0	Stab	2.10	1	9.50	0.00	A229	
Slack-Off Weight (Avg) (klb)	0	NMDC	9.04	1	9.50	0.00	6613	
Torque Max (Avg) (ft-lbs)	0	Stab	2.18	1	9.50	0.00	47618	
Torque on Bottom (Avg) (ft-lbs)	0	Drill Collar	18.34	2	9.50	0.00	Various	
Torque off Bottom (Avg) (ft-lbs)	0	X/O	1.09	1	9.44	0.00	SANTOS	
BHA Description: 660 mm (26")	Bit, 914 mm (36") hole	Drill Collar	45.33	5	8.00	0.00	Various	
	nm (9-1/2") Anderdrift, 445 mm	X/O	1.09	1	8.00	0.00	SANTOS	
(17-1/2") stabiliser, 241 mm (9- (17-1/2") stabiliser, 2 x 241 mm (8") DC, X/O, 127 mm (5") HWI	(9-1/2") DC, X/O, 5 x 203 mm	HWDP	46.63	5	6.38	0.00	Various	
BHA Run Comment:	51							

BHA No.: 2

Paran	neters				BHA I	Detail	
Date In/ Date Out	18 Jun 2005 / 19 Jun 2005	Equipment	Length	Total	OD (in)	ID (in) Serial #	Comment
Depth In/ Depth Out (m)	133.0/665.0		(m)	Joints			
Length (m)	275.9	Bit	0.44	1	17.50	0.00 MR9725	Smith XR+CRS c/w 1 x 18, 3 x 20 Nozzles
Weight (Dry/ Wet) (klb)	0.0 / 0.0	Near Bit Stabiliser	1.62	1	17.50	0.00 3135	C/W Float
Weight Blw/Jar (Dry/Wet) (klb)	0.0 / 50.0	Pony Drill Collar	3.01	1	9.50	0.00 SBD2369	
String Weight (Avg) (klb)	0	Stab	2.10	1	9.50	0.00 A229	c/w Totco Ring
Pick-Up Weight (Avg) (klb)	0	NMDC	9.04	1	9.50	0.00 6613	
Slack-Off Weight (Avg) (klb)	0	Stab	2.18	1	9.50	0.00 47618	
Torque Max (Avg) (ft-lbs)	0	Drill Collar	18.34	2	9.50	0.00 Various	
Torque on Bottom (Avg) (ft-lbs)) 0	X/O	1.09	1	9.44	0.00 SANTOS	
Torque off Bottom (Avg) (ft-lbs)	0	Drill Collar	71.57	8	8.00	0.00 Various	
BHA Description: 445 mm (17-	1/2") Bit, 445 mm (17-1/2") NB	Jar	9.20	1	8.25	0.00 DAH02220	
Stab, 241 mm (9-1/2") Pony DO		Drill Collar	17.90	2	7.94	0.00 Various	
mm (9-1/2") NMDC, 445 mm (1 (9-1/2") DC, X/O, 8 x 203 mm (X/O	1.09	1	8.00	0.00 SANTOS	
203 mm (8") DC, X/O, 6 x 203 mm (HWDP	138.37	15	6.38	0.00 Various	
BHA Run Comment:							



BHA Record for Casino-5

Rig : Ocean Patriot Spud : 16 Jun 2005 / 19:00 Rig Release : 08 Jul 2005 / 22:00

BHA No.: 3

Param	neters				ВНА І	Detail		
Date In/ Date Out	23 Jun 2005 / 24 Jun 2005	Equipment	Length	Total	OD (in)	ID (in)	Serial #	Comment
Depth In/ Depth Out (m)	665.0/1160.0		(m)	Joints				
Length (m)	279.2	Bit	0.33	1	12.25	0.00	MR0049	Smith GS04BDV
Weight (Dry/ Wet) (klb)	0.0 / 70.0	N. 51: 6: 1 III					.=	3 x 18, 1 x 20 nozzles
Weight Blw/Jar (Dry/Wet) (klb)	0.0 / 54.0	Near Bit Stabiliser	2.11	1	12.25		47602	c/w Ported Float
String Weight (Avg) (klb)	210	Pony Drill Collar	3.04	1	8.25		49059	
Pick-Up Weight (Avg) (klb)	0	Stab	2.08	1	12.25		AIB1134	
Slack-Off Weight (Avg) (klb)	0	FEWD Tools	13.16	3	8.00	0.00	Various	FEWD - 90072859/XH1GVR Pulser - 10599305
Torque Max (Avg) (ft-lbs)	0							Directional - 90074559
Torque on Bottom (Avg) (ft-lbs)	0	NM Pony Drill Collar	2.93	1	8.13	0.00	47637	
Torque off Bottom (Avg) (ft-lbs)	0	Drill Collar	88.99	10	7.88	0.00	Various	
	1/4") TCI Bit, 311 mm (12-1/4")	Jar	9.20	1	8.25	0.00	DAH02220	
NB Stab, 203 mm (8") Pony DC Sperry FEWD, Pulser, Direction		Drill Collar	17.90	2	7.94	0.00	Various	
	Jars, 2 x 203 mm (8") DC, X/O,	X/O	1.09	1	8.00	0.00	SANTOS	
15 x 127 mm (5") HWDP ` ´		HWDP	138.37	15	6.38	0.00	Various	
BHA Run Comment:								

BHA No.: 4

Para	meters				BHA I	Detail		
Date In/ Date Out	24 Jun 2005 / 25 Jun 2005	Equipment	Length (m)	Total Joints	OD (in)	ID (in)	Serial #	Comment
Depth In/ Depth Out (m)	1160.0/1392.0	50	` ,	0011113			·	0 W 11100DV
Length (m)	252.4	Bit	0.52	1	12.25	0.00	JT6901	Smith MA89PX
Weight (Dry/ Wet) (klb)	0.0 / 50.0	Name Die Otale Plans	0.44		40.05	0.00	47000	7 x 14 nozzles
Weight Blw/Jar (Dry/Wet) (klb)	0.0 / 38.0	Near Bit Stabiliser	2.11	1	12.25		47602	c/w Ported Float
String Weight (Avg) (klb)	210	Pony Drill Collar	3.04	1	8.25		49059	
Pick-Up Weight (Avg) (klb)	0	Stab	2.08	1	12.25	0.00	AIB1134	
Slack-Off Weight (Avg) (klb)	0	FEWD Tools	12.90	3	8.00	0.00	Various	FEWD - DA90077824/XH1GR8 Pulser - 1056014
Torque Max (Avg) (ft-lbs)	0							Directional - DM90061480MB
Torque on Bottom (Avg) (ft-lbs	,	NM Pony Drill Collar	2.93	1	8.13	0.00	47637	
Torque off Bottom (Avg) (ft-lbs	s) 0	Drill Collar	62.27	7	7.88	0.00	Various	
BHA Description: 311 mm (12		Jar	9.20	1	8.25	0.00	DAH02220	
	") Pony DC, 311 mm (12-1/4") Directional, 203 mm (8") NMDC,	Drill Collar	17.90	2	7.94	0.00	Various	
	(8") Jars, 2 x 203 mm (8") DC,	X/O	1.09	1	8.00	0.00	SANTOS	
X/O, 15 x 127 mm (5") HWDP		HWDP	138.37	15	6.38	0.00	Various	
BHA Run Comment:								



BHA Record for Casino-5

Rig : Ocean Patriot Spud : 16 Jun 2005 / 19:00 Rig Release : 08 Jul 2005 / 22:00

BHA No.: 5

Param	neters				ВНА [Detail		
Date In/ Date Out	25 Jun 2005 / 26 Jun 2005	Equipment	Length	Total	OD (in)	ID (in)	Serial #	Comment
Depth In/ Depth Out (m)	1392.0/1730.0		(m)	Joints				
Length (m)	252.2	Bit	0.32	1	12.25	0.00	110402	Reed Hycalog DSX104 3 x 16, 2 x 18
Weight (Dry/ Wet) (klb)	0.0 / 50.0	N. Bir Or Lill	0.11		10.05	0.00	47000	nozzles
Weight Blw/Jar (Dry/Wet) (klb)	0.0 / 38.0	Near Bit Stabiliser	2.11	1	12.25		47602	c/w Ported Float
String Weight (Avg) (klb)	210	Pony Drill Collar	3.04	1	8.25		49059	
Pick-Up Weight (Avg) (klb)	0	Stab	2.08	1	12.25	0.00	AIB1134	
Slack-Off Weight (Avg) (klb)	0	FEWD Tools	12.90	3	8.00	0.00	Various	FEWD - DA90077824/XH1GR8 Pulser - 1056014
Torque Max (Avg) (ft-lbs)	0							Directional - DM900614800B
Torque on Bottom (Avg) (ft-lbs)	0	NM Pony Drill Collar	2.93	1	8.13	0.00	47637	
Torque off Bottom (Avg) (ft-lbs)	0	Drill Collar	62.27	7	7.88	0.00	Various	
BHA Description: 311 mm (12-		Jar	9.20	1	8.25	0.00	DAH02220	
(12-1/4") NB Stab, 203 mm (8") Stab, Sperry FEWD, Pulser, Dir		Drill Collar	17.90	2	7.94	0.00	Various	
7 x 203 mm (8") DC, 203 mm (8		X/O	1.09	1	8.00	0.00	SANTOS	
X/O, 15 x 127 mm (5") HWDP	, , ,	HWDP	138.37	15	6.38	0.00	Various	
BHA Run Comment:								

BHA No.: 6

Para	meters	BHA Detail								
Date In/ Date Out	27 Jun 2005 / 29 Jun 2005	Equipment	Length	Total	OD (in)	ID (in)	Serial #	Comment		
Depth In/ Depth Out (m)	1730.0/1806.0		(m)	Joints						
Length (m)	265.6	Bit	0.23	1	8.50	0.00	110960	DSX104; 2x16 & 3x15 nozzles		
Weight (Dry/ Wet) (klb)	0.0 / 25.0							Seriel #: 110996		
Weight Blw/Jar (Dry/Wet) (klb	0) 0.0 / 45.0	Near Bit Stabiliser	2.40	1	6.56	3.50	DA6028			
String Weight (Avg) (klb)	245	Pony Drill Collar	5.04	1	6.69	2.75	DA6024			
Pick-Up Weight (Avg) (klb)	245	MWD Tools	9.76	1	6.75	3.00	DM4007	DGR EWR DDR SLB		
Slack-Off Weight (Avg) (klb)	245	MWD Tools	2.79	1	6.75	3.00	152535	Directional sensor		
Torque Max (Avg) (ft-lbs)	12	MWD Tools	3.05	1	6.75	3.00	10599301	Pulser		
Torque on Bottom (Avg) (ft-lb		8.5in String Stab	1.78	1	6.69	2.81	92566	8.5"		
Torque off Bottom (Avg) (ft-lb	,	6.5in DC	74.44	8	6.50	2.88				
	5) 4	6.5in Jars	9.24	1	6.50	2.75	WDAH02928			
BHA Description:		6.5in DC	18.56	2	6.50	2.88				
BHA Run Comment:		5in HWDP	138.37	15	5.00	3.00				

Santos	Well Completion Report - Volume 1 Basic
SECTION 9:	BIT RECORD & PERFORMANCE SUMMARY

Wellname : Casino-5 Prilling Co. : DOGC Rig : Ocean Patriot

DFE above MSL: 21.5m

Lat: 38 Deg 47 Min 43.75 Sec

Spud Date : 16 Jun 2005

Release Date: 08 Jul 2005

Water Depth: 68.2m

Long: 142 Deg 44 Min 44.54 Sec

Spud Time: 19:00

Release Time: 22:00

Bit Record

Well: Cas	sino-5																									
Date In	IADC	Bit#	Size in	Ser#	Mfr	Туре	Jets # x /32nd"	D.In m	D.Out m	Prog m	Hrs o/b	SPP psi	Flow gpm	WOB klb	RPM	MW	TFA	ROP m/hr	I	O1	D	L	В	G	O2	R
16 Jun 2005	115	1RR	26.00	MR4109	SMITH	DSJC	2 x 20 2 x 22	89.7	133.0	43.3	3.10	1000	1000	2.0	70	8.68	1.356	13.97								
18 Jun 2005	115	2	17.50	MR9725	SMITH	XR+CRS	3 x 20 1 x 18	133.0	665.0	532	11.39	2600	1130	30.0	110	8.68	1.169	46.71	1	1	NO	Α	E	1	NO	TD
22 Jun 2005	415	3	12.25	MR0049	SMITH	GS04BDV	3 x 18 1 x 20	665.0	1160.0	495	18.90	3000	1000	15.0	120	8.93	1.052	26.19	4	5	WT	Α	E	1	ER	FM
24 Jun 2005	M223	4RR	12.25	JT6901	SMITH	MA89PX	7 x 14	1160.0	1392.0	232	15.20	3000	1000	12.0	150	9.27	1.052	15.26	1	1	вт	s	Х	1	BU	PR
25 Jun 2005	M323	5	12.25	110402	HYCALOG	DSX104	3 x 16 2 x 18	1392.0	1730.0	338	7.40	3250	950	15.0	170	9.39	1.086	45.68	1	1	ВТ	Т	Х	1	NO	TD
27 Jun 2005	M323	6	8.50	110996	HYCALOG	DSX104	2 x 16 3 x 15	1730.0	1806.0	76	3.70	0	700	5.0	120	9.55	0.91	20.54	1	1	NO	Α	Е	I	ER	TD

SECTION 10: DRILLING FLUIDS REPORT

Fluids Recap

Santos Ltd

Casino 5 VIC P-44 Gas Devlopment Otway Basin



Prepared by:

Steve Jones





M-I L.L.C.

ONE-TRAX

DRILLING FLUID DATA MANAGEMENT SYSTEM

Operator: Santos Ltd Spud Date: 16/06/2005
Well Name: Casino 5 TD Date: 28/06/2005

Field/Area: VIC P-44 Location Code: 7001

Description: Gas Devlopment **Project Engineer:** Steve Jones

Location: Otway Basin

Sales Engineer: J. Singh / G.Howie

Warehouse: Portland

Sales Engineer: G. Sharpe / K Leong

Contractor: Diamond Offshore M-I Well No.

Comments:										
Туре	Size in	Depth m	TVD m	Hole in	Max MW sp.gr.	Fluid 1		Fluid2 Drilling Problem	Days	Cost \$
Casing	30	133	133	36	1.04	Spud Mud	N/A	None	1	5742.52
Casing	13.625	655	655	17.5	1.04	Spud Mud	N/A	None	3	14754.45
Open Hole		1009	1009	12.25	1.04	Spud Mud	N/A	None	3	2304.78
Casing	9.625	1720	1718	12.25	1.25	KCL/Polymer	N/A	BHA/Bit Balling	5	121030.28
Casing	7	1806	1802	8.5	1.24	FLO-PRO/Comp	letion	None	5	112947.32

Total Depth: 1806 m TVD: 1802 m Water Depth: 69 m Drilling Days: 17 Total Cost: 256,779.35



CONTENTS:

- DISCUSSION BY INTERVAL
- DAILY DISCUSSION REPORT
- COST BY INTERVAL
- DAILY VOLUME SUMMARY SHEET
- Total Material Cost
- HYDRAULICS REPORT
- DRILLING FLUIDS SUMMARY
- PRODUCT CONSUMPTION
- DAILY MUD REPORTS



DISCUSSION BY INTERVAL



SUMMARY:

Santos Ltd was the operator of vertical gas producer well, Casino – 5, Vic/P44, Victoria, Australia using the Ocean Patriot semi submersible rig owned by Diamond Offshore. Casino – 5 is located in the Casino gas field, approximately 25 km SW of Peterborough, Latitude 38.47′54 E and Longitude 142.47′12 S. The well was programmed for 17 days' drilling operations and 8 days' completion operations.

The rig was moved to location on 15 June 2005 after finishing Casino 4 DW2 well.

The primary objective was gas in Warre C Sandstone (1743 m RT TVD) with bottom hole pressure of 2830 psi and temperature of 79C.

Casino-5 was spudded on the 16 June 2005 at 19:00 hrs.

The $26'' \times 36''$ hole was drilled to 133 m using sea water and Gel sweeps. The 30 x 20'' conductor casing was run and cemented in place at 133 m. A top up cement job was also performed.

The 17½" hole was drilled to 665 m with sea water and PRE HYDRATED GEL sweeps. The 13 3/8" casing was run after a wiper trip and cemented as per the program at 655 m.

The Sub Sea Xmas tree was lowered onto wellhead and BOP was rigged up.

The cement and casing shoe were drilled out and a LOT performed to an equivalent mud weight of 17.4 ppg. Continued drilling 12¼" hole to 994m with sea water/Gel sweeps and then the hole was displaced to KCl/Idcap/PAC mud.

400 bbls of mud was lost down hole during the displacement. A further 40 bbls were lost downhole at 1100m. This healed naturally and no further downhole losses were noted.

A bit trip was made at 1160 m due to poor rate of penetration. The bit and MWD tool were changed out, RIH and drilling continued at 12 – 20 meters per hour through the Timboon sandstone. The ROP slowed to less than 10m/hr. A 45 bbl KCl brine pill was pumped in an attempt to clear the bit at 1388m. POOH to change the bit at 1392m. The bit was balled. RIH and drilled ahead to 1730 m where a weighted hi vis pill was pumped and the hole circulated clean A wiper trip was made back to the shoe, reaming tight spots as required. Then POOH, retrieve the wear bushing, and rig up to run 95%" casing. The casing was run without problems and cemented with the shoe at 1720m.



1100 bbls of FloPro Drill in mud system was mixed to drill the $8\frac{1}{2}$ " interval. An $8\frac{1}{2}$ " BHA with PDC bit was run in the hole to drill out cement and the casing shoe. Then a heavy viscous spacer with a Fluorsceine dye was pumped ahead of the FloPro system when displacing the hole. The displacement was precise with no mud losses down hole or over the shakers. Shaker screens were quickly changed out to finer mesh, from 84-140 mesh to 200 and 230 mesh. The $8\frac{1}{2}$ " hole was drilled without any hole or mud problems to TD at 1806 m.(1802 m. TVD), at ROP's 10-30 meters per hour.

The interval was drilled in less than 8 hours. The desander and desilter were not run as mud density and LGS were not increasing, and volume had to be conserved.

A flow check was done, (hole static), then circulated bottoms up. A short trip back through the open hole, then run back to bottom. There was no fill, the hole was circulated clean then POOH to 488 m. At this point, instructions were given to RIH to bottom to displace the open hole section with 50 bbls of freshly mixed FloPro mud which had not been used to drill, and which had no sand or solids in it which could possibly block flow through the production screens.

POOH from 1806m to 1650m. The hole was then displaced to CaCl₂ brine. Then continued to POOH to run expandable sand screens of the lower completion assembly.

The ESS Expandable screens and Packer were run with the expandable Packer set at 1800m RIH with ACE expansion tool. The attempt to work through the packer assembly was not successful. POOH checking on OD of HWDP and 6" drill collar tool joints. One found to be over size. TIH with ACE expansion tool on 5" DP and successfully expanded screens from1731 to 1793 meters. POOH to run casing scraper and worked from 1552 to 1658 meters.

At this time the well was displaced to brine 43 bbls viscous pill, followed by 152bbls NaCl brine then 462 bbls CaCl2brine at 10.3 ppg. POOH to run production tubing.

The total mud chemical cost for the well was: \$256,779.35.



FORMATION TOPS:

Formation Tops RKI	3 Casino - 5	Formation	Lithology			
Programmed	Actual					
776	775	WANGERRIP GROUPS	Sandstone/Calcarinite			
1077	1083	PEBBLE POINT FM	Sandstone/Calcarinite			
1146	1151	MASSACRE SHALE	Siltstone			
1157	1162	TIMBOON SST	Sandstone			
1350	1355	PAARATTE FM	Sandstone			
1515	1498	SKULL CREEK MUDSTONE	Sandstone/Siltstone			
1743	1746	TOP WAARRE	Sandstone/Siltstone			
1780		BASE WAARRE C				
1788	1806	TD				

Mepunga Formation 680 +/- 5m



Interval I 90- 133 meters 36 x 26 Hole 30 x 20" casing

MUDTYPE : SEAWATER / PRE HYDRATED GEL

MUD RELATED

HOLE PROBLEMS : None

MUD PROPERTIES:

 Mud Weight
 : 8.7 ppg

 YP
 : 50 lb/100ft²

 API FL
 : 13 cc/30 min

 Funnel Vis
 : > 200 se/qt

 Hardness
 : 40 mg/l

 MBT
 : 28 ppb

OPERATIONS:

Casino-5 was spudded on 16th June 2005 at 19:00 hrs after experiencing problems tensioning anchors due to hard sea bed surface. The 26" hole with 36" hole opener was drilled to 133m in 5 hrs. The drilling was controlled using low weight on bit and frequent reaming to keep hole deviation at 1 degrees. The 30" casing was run and cemented in place at 133 meters with permanent guide base.

MUD

1680 bbl of 26 ppb Gel was mixed in the pits in preparation for spudding. The mixing created heavy foaming and required use of defoamer and flushing the pits with sea water. The hopper mix pumps were losing prime and charge pumps were used to assist the mix pumps. No kill mud was prepared as the offset wells did not indicate any shallow gas. The drilling was initiated using 200 bbl Pre Hydrated Gel and hole was swept with 100 bbl mud every 10 m of drilling. At TD a 100 bbl sweep was pumped and hole displaced with 300 bbl of unflocculated PRE HYDRATED GEL mud.

A total of 1178 bbl of Pre Hydrated Gel was used for this section. The remaining 502 bbl of left over Pre Hydrated Gel was carried over for the next section. 185 bbl of CaCl₂ cement mix was prepared in separate tank.

SOLIDS CONTROL:

None used as returns were directed to seabed.

OBSERVATIONS AND RECOMMENDATIONS:

No changes are proposed.



Interval II 133 m – 665 m	17½" Hole section	13¾" casing at 655 m
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MUDTYPE : Seawater / Pre Hydrated Gel

MUD RELATED

HOLE PROBLEMS : None

MUD PROPERTIES:

 Mud Weight
 : 8.7 ppg

 YP
 : 50 lb/100ft²

 API FL
 : 13cc/30 min

 Funnel Vis
 : > 100 se/qt

 Hardness
 : 40 mg/l

 MBT
 : 27-28 ppb

OPERATIONS:

The 17½" drilling assembly was made up and run in hole. The hole was drilled to 665 meters using sea water pumped at 1100 gpm with Gel sweeps. A wiper trip was performed as tight hole was encountered from 450 to 300m. The 13¾" casing was run and cemented in place as per program with no troubles with the shoe at 655 m.

MUD:

502 bbl of Pre Hydrated Gel mud from the previous section was carried over to this section. A 50 bbl Pre Hydrated Gel sweep was pumped after drilling cement and further drilling continued using sea water and PHG sweeps. A sweep regime of 50 bbl Pre Hydrated Gel mid stand and 75 bbl Pre Hydrated Gel on connections was followed. A 200 bbl Pre Hydrated Gel sweep was pumped and was circulated out with seawater at TD of 665 m. The hole was then displaced with 800 bbl Pre Hydrated Gel. The hole was again displaced with Pre Hydrated Gel after wiper trip.

A total of 3760 bbl of Gel was used for this section.

SOLIDS CONTROL:

No solids control was used as returns were to seabed.



OBSERVATIONS AND RECOMMENDATIONS:

No changes are recommended as the Pre Hydrated Gel sweep system is the most cost effective way to drill this interval.



Interval III 665 m – 994 m 12 ¹ / ₄ " Hole section
--

MUDTYPE : Seawater/Pre Hydrated Gel

MUD RELATED

HOLE PROBLEMS : None

MUD PROPERTIES:

 Mud Weight
 :
 8.7 ppg

 YP
 :
 50 lb/100ft²

 API FL
 :
 13cc/30 min

 Funnel Vis
 :
 >100 sec/qt

 Hardness
 :
 40 mg/lt

 MBT
 :
 27-28 ppb

OPERATIONS:

12¼" drilling assembly was made up and run in hole after landing the BOP stack. Drilled through casing shoe and cement and 3 meters of new formation. A LOT was performed to an equivalent 17.4 ppg. The hole was drilled with sea water pumped at 1100 gpm with 50 bbl Gel sweeps midstand and 50 bbl on connections, to 994m. At this depth the hole was displaced to KCl/IDCAP D polymer mud.

MUD:

502 bbl of Pre Hydrated Gel mud from the previous section was carried over to this section. A 60 bbl Pre Hydrated Gel sweep was pumped after drilling cement and shoe track. Drilling continued using sea water, and a sweep regime of 50 bbl Pre Hydrated Gel mid stand and 50 bbl Pre Hydrated Gel on connections was followed. A 200 bbl Pre Hydrated Gel sweep was pumped at 966 m to make pit space for dilution of KCl-Polymer mud and was circulated out with seawater. The hole was again swept with 150 bbl Pre Hydrated Gel prior to displacement to KCl/Polymer mud at 994 m. A total of 1540 bbl of Pre Hydrated Gel was used for this section.

SOLIDS CONTROL:

While drilling with seawater/PHG sweeps, the returns were dumped overboard with some flow taken over one shale shaker for collecting cutting samples. Sand blinding



of this shaker was noticed as and when riser was boosted, due to overwhelming amount of sands.

OBSERVATIONS AND RECOMMENDATIONS:

No changes are recommended as the Pre Hydrated Gel sweep system is the most cost effective way to drill this interval avoiding the potential KCl-Polymer mud losses caused by sand blinding screens, if used instead of Sea Water.



Interval IV 994 - 1730 meters 12 1/4 Section 95/8" casing at 1720 m	Interval IV	994 - 1730 meters	12 1/4 Section	95/8" casing at 1720 m
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MUD TYPE : KCl/Idcap D

MUD RELATED

HOLE PROBLEMS : Balled Bit.

MUD PROPERTIES:

Mud Weight : 10.1 – 10.4 ppg

YP 26-48 11-17 PV API FL 3.8-5 cc **KCl** 6.5-8 % **IDCAP** 2.5-3.0 ppb Funnel Vis $49 - 55 \sec/qt$ Hardness 640 mg/l LGS 0.5-3% Drill Solids 9-12 % PH 8.0 - 9.06 RPM 10 - 15

OPERATIONS:

Prior to displacement the MWD tool progressively failed to communicate. The hole was displaced with 10.1 ppg KCl/Idcap mud while drilling from 994 m to 1009 m. A total of 400 bbl of KCl-Idcap mud was lost downhole during displacement. This loss was attributed to the coarse sandy zones drilled earlier. The losses healed naturally and no LCM was pumped.

Drilling continued to 1160 m, circulated bottoms up then POOH, to change the bit and failed MWD tool. Picked up new directional assembly and RIH. No hole problems or tight spots. Continued drilling through the Timboon Sandstone with ROP,s in the 12 – 20 meters per hour range, to 1388m where ROP dropped back to around 6 m/hr. Pumped a 45 bbl 8% KCl brine pill attempting to clear bit. Not successful. At 1392 m POOH to find bit balled. RIH and continued drilling to interval TD, 1730 meters. Wiper trip back to shoe, back reaming through tight spots. Then POOH to run 95%" casing.



MUD:

While running the BOP stack three pits were dumped and cleaned to take 1000 bbl 16% Brine from Far Grip. Due to limitation of pit space, 906 bbls were mixed with 9% KCl concentration and weighed to 10.1 ppg along with 462 bbl of 16% KCl concentration with double strength of polymers. This double dose mix was diluted with drill water just before displacement as pit space became available.

The hole was displaced with 10.1 ppg KCl/Idcap mud while drilling from 994m to 1009m. A total of 400 bbl of KCl-Idcap mud was lost downhole during displacement. This loss was attributed to the coarse sandy zones drilled earlier. The losses healed naturally and no LCM was pumped.

The system was treated with 1.5 ppb of Duovis to enhance the 6 rpm reading of 5 to 10 and the Idcap concentration was increased to 2 ppb while drilling from 1009m to 1160m. The system was also treated with Potassium Hydroxide and Soda Ash for hardness and pH. OS-1 sacks were added to keep dissolved oxygen to minimum. Active pit volume was maintained by the addition of concentrated premix, which assisted in keeping product concentrations as required in the mud program.

The system was weighted to 10.3 - 10.4 ppg (1.24 - 1.24 sg) on Santos instructions by ~1530 meters. This density was used to drill to the interval TD, 1730 meters.

At TD 1730m, the hole was circulated clean and a wiper trip to 1140m was made which required some back reaming. 95%" casing was run in hole and cemented at 1720m.

SOLIDS CONTROL:

The shakers were dressed initially with a mixture of 84,110,120,165 mesh used screens with 10 mesh scalping screens. These were upgraded to 165 and 180 mesh at 1160m after 8 hrs of drilling. At 1252 meters replaced 3 damaged 180 mesh screens with new screens from Santos stock. This setup worked well as the mud weight remained at 10.1 – 10.2ppg, with small assistance from the addition of 9.8 ppg premix to the active system. Additions of premix were stopped when the weight dropped to 10.0+ ppg. Sacked chemicals were then added to the mud to maintain program properties.



DOWNHOLE LOSSES:

400 bbl of downhole losses were observed on initial displacement and further 40 bbl were lost downhole at 1100 m. No LCM pills were pumped and the losses healed naturally.

OBSERVATIONS AND RECOMMENDATIONS:

It is recommended that the initial displacement be done with unweighted KCl-Polymer mud to reduce downhole losses as observed in this well.



Interval V	1730-1806 meters	8½" Section	Production Screens
interval v	1/30-1606 meters	672 Section	1731 – 1793m

MUD TYPE : FloPro NT

MUD RELATED

HOLE PROBLEMS : None.

MUD PROPERTIES:

Mud Weight 10.4 ΥP 23-48 PV 11-14 API FL 4.8-5.0 cc **KCl** 6.5% LSRV0.3rpm 36 - 45 kFunnel Vis $50 - 65 \sec/qt$ Hardness 80 - 120 mg/l

LGS : 2-4 %
Drill Solids : .5-5.2%
PH : 9.7 – 10
6 RPM : 10 - 17

OPERATIONS:

The 8½" hole was drilled at ROPs between 5 – 50 meters per hour. TD at 1806 meters was reached without any hole problems. Here a wiper trip back to the shoe was made, then the string was run to bottom, bottoms up circulated, flow check was done which showed the hole was static. There was no fill, the hole was circulated clean then POOH to 488 m. At this point, instructions were given to RIH to bottom to displace the open hole section with 50 bbls of freshly mixed FloPro mud which had not been used to drill, and which had no sand or solids in it which could possibly block flow through the production screens, and the casing was displaced to inhibited CaCl₂ brine. After pumping a viscous pill using Safe Vis E for viscosity and incorporating 5% Safe Surf WN for the removal of any water based mud residue, the hole above the FloPro was displaced to CaCl₂ brine weighing 10.2 ppg. The brine had been treated with Dirt Magnet to flocculate out any impurities, and Safe-Cide and Safe-Cor were added prior to the displacement.

Tests run by Weatherford to ensure the mud would pass through their screens, showed the "new" mud would pass through the screens, but mud used for drilling



plugged the filter. This was caused by the small amount of sand and other colloidal sized solids which had passed through the shaker screens during the drilling. The percentage of solids as shown by the results of the retort, were the same in both the "new" mud and the mud used for drilling. The sand content in the mud was less than 0.25% and appeared to be very fine. Shaker screens sizes used during the drilling were 200 and 230 mesh after the initial displacement and the FloPro mud had warmed up.

The screens were run to bottom without any problems and the completion operations were begun.

MUD:

Initially 1100 bbls of FloPro Drill in mud system was mixed to drill the 8½" interval. An 8½" BHA with PDC bit was run in the hole to drill out cement and the casing shoe using KCl mud from the previous section. Then a heavy viscous spacer with a Fluorsceine dye was pumped ahead of the FloPro system when displacing the hole. All the old mud was dumped at the shakers as soon as the displacement began. The header box and sand traps were dumped and cleaned during the displacement procedure. As soon as returns were FloPro, all mud was directed back to the active pit.

FloVis Plus was added at 1 ppb to the initial mix, to ensure the mud would go through the shaker screens on the displacement.

The displacement was precise with no mud losses down hole or over the shakers.

Flo Vis Plus was added to the system during drilling to increase the LSRV rheology reading to above 50,000 cps and ensure good hole cleaning. The fluid loss was less than the programmed 5 ml, and all other properties were well within specifications. The mud remained stable and in good condition for the short drilling interval.

Shaker screens were quickly changed out to finer mesh, from 84 - 140 mesh to 200 and 230 mesh. The $8\frac{1}{2}$ " hole was drilled without any hole or mud problems to TD at 1806m (1802 m TVD), at ROP's 10 - 30 meters per hour.

DOWNHOLE LOSSES:

None observed



OBSERVATIONS AND RECOMMENDATIONS:

This Flo Pro Drill In Fluid performed as programmed having no mud or hole problems drilling through the production zones. It remains stable and exhibits good hole cleaning abilities if properties are maintained within programs specifications.

In future operations using FloPro mud, in which similar production screens are to be used, it is recommended the open hole section be displaced to freshly mixed mud which has not been used for drilling.



Interval V	1788-1788 meters	Completions	Screens
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MUD TYPE : Calcium Chloride Brine

MUD PROPERTIES

Mud Weight: : 10.1 – 10.2 ppg

pH: : 9.1

Cl: : 146 000 mg/l

OPERATIONS:

1227 bbls of brine weighing 1.2 sg (10.0 ppg) was received from the Portland mixing plant. Dirt Magnet was used to clean the brine. Safe-Cor corrosion inhibitor and Safe-Cide biocide were then added to the brine to meet the programmed properties. This was pumped into the hole from 1650m above the Flo Pro mud in the open hole section.

The ESS Expandable screens and Packer were run with the expandable Packer set at 1800m. RIH with ACE expansion tool. The attempt to work through the packer assembly was not successful. POOH checking on OD of HWDP and 6" drill collar tool joints. One found to be over size. TIH with ACE expansion tool on 5" DP and successfully expanded screens from 1731 to 1793 meters. POOH to run casing scraper.

The casing was scraped from 1552 to 1658 meters. This was done using FloPro mud remaining in the pits. When the casing scraping was finished, the well was displaced to fresh clean brine as follows. First pumped were 43 bbls viscous pill, followed by 152 bbls NaCl brine, then 462 bbls CaCl₂ brine at 10.3 ppg. POOH to run production tubing.



DAILY DISCUSSION REPORT



Operator : Santos Ltd

Well Name: Casino 5
Contractor: Diamond Offshore

Field/Area: VIC P-44

Description : Gas Devlopment **Location :** Otway Basin

Daily Discussion

M-I Well:

15/06/2005 TD = 0 m Day 0

Cleaned tanks with sea water. Started taking DW in tanks @ 17:00 Hrs. Further flushed pits with SW as pits started to foam. Used Defoam A to control foaming. Mixed xxx bbl of PHG.

16/06/2005 TD = 133 m Day 1

Run anchors. Spud Casino 5 @ 19:00 Hrs. Drilled to 133m. Used 800 bbl as sweeps and 375 bbl to fill hole at section TD.

Mixed 1680 bbls of 26 ppb PHG. Used Defoamer to overcome severe foaming problems. Flushed pits 3 times with sea water. Used extra pumps to get enough prime on mix pumps. Mixed 185 bbl of CaCl2 cement mix.

17/06/2005 TD = 133 m Day 2

Run casing and cemented as per plan. Performed top up job. WOC. Lay down 36" BHA.

Mixed 75 bbl of CaCl2 cement mix water for top up job. Took DW & Gel on board. Mixing more Gel volumes in surface pits.

18/06/2005 TD = 665 m Day 3

Made up 17.5" BHA. RIH to tag cement at 128 m. Drilled ahead with 50 bbl PGH sweep midstand and 75 bbl PHG spot on connections to 665 M. Swept the hole clean with 200 bbl PHG at TD and displaced hole with 800 bbl PHG. POOH.

Mixed PHG to fill all available surface pit volume. Continued mixing PHG to replace volume used in sweep/spot programme. Total Gel volume used=3150 bbl.

19/06/2005 TD = 665 m Day 4

Completed P/O to shoe with tight spots from 450-300 m. Run back in. 3m fill. Circulated hole and displaced with PHG. POOH. Ran 13-3/8" casing. Cemented as per plan. WOC

Filled Pits 1 and 2 before dumping residual PHG mud and rinsing Pits 3, 4 and 5. Later mixed 870 bbl PHG to provide volume for the trip/sweep.

Received 1000 bbl of 16% KCl brine from FarGrip.

Backloaded 4 drums of Pipelax W.

20/06/2005 TD = 655 m Day 5

Rig up tree and BOP. Run riser. Pressure test to 5000 psi.

Mixed 980 bbl 10.1 ppg KCl/IDCAP mud in Pi 3 & 4 AND 500 bbl of 11.5 ppg KCl/Idcap mud of double concentration in Pit 5 (to be diluted before displacement) in preparation for 12-1/4" section (to be costed in appropriate section). Pit 1 & Pit 2 full of PHG.

21/06/2005 TD = 655 m Day 6

Rig up and latch BOPs. Function and pressure test BOP components. Run wear bushings.

Added Soda Ash to KCl/Polymer mud.



Operator : Santos Ltd

Well Name: Casino 5
Contractor: Diamond Offshore

Field/Area: VIC P-44

Description : Gas Devlopment **Location :** Otway Basin

Daily Discussion

M-I Well:

22/06/2005 TD = 951 m Day 7

Make up 12-1/4" BHA. RIH to tag cement at 633 m. Drilled through cement and 3 m of new formation. Pulled back to the shoe and performed LOT to 17.4 ppg. Drilled ahead with seawater and 50 bbl sweeps/spots at midstand and connections.

Mixed an additional 1080 bbl PHG for sweeps.

23/06/2005 TD = 1160 m Day 8

Pumped Gel spacer and displaced to KCl/IDCAP mud while drilling from 994 m to 1009 m. Continued drilling to 1160 m. Circulate hole clean/boosted riser. Pump slug. POOH for bit change.

Used 1100 bbls KCl/IDCAP mud to displace the hole and lost 400 bbl downhole. Treated system with 1.5 ppb Duovis and 1 ppb IDCAP-D. Lost downhole 40 bbl at 1100 m and healed naturally. Received 1000 16% KCl Brine from Pacific Wrangler. Changed screens to 165/180 mesh (old screens) at 1160 m. Gel stock adjusted as per BCRO.

24/06/2005 TD = 1343 m Day 9

Changed bit and MWD assembly. RIH. Drilled ahead to 1343 m. ROP in 12 - 20 m/hr range through the Timboon sandstone. Duovis used to increase 6 rpm reading up from minimum program range for good hole cleaning.

Added KOH and Duovis to the active system to maintain the programmed pH range, and rheology. Slowly transferred premix into active to maintain volume.

25/06/2005 TD = 1690 m Day 10

Drilling slowed down to <10 m/hr. Made up and pumped a 45 bbl KCl 8% brine pill to attempt to clear the bit at 1388m. POOH to change bit at 1392m. Bit balled. RIH continue drilling to 1688m at ROP 20-70 m/hr.

Changed 4 x 180XR Santos screens.

Added KOH, OS-1L, IDCAP-D and Polupac UL to the active system to maintain programmed properties. Transfer concentrated premix into active to maintain active volume and required properties. Weighting up to be at 10.3-10.4 ppg by 1530 m.

26/06/2005 TD = 1730 m Day 11

Drilled ahead to TD at 1730m. Pumped hi-vis sweep and circulated until cuttings on shakers tapered off. POOH. Back reamed tight spots to casing shoe. RIH for wiper trip. POOH. Retreive wear bushing from wellhead. Rig up to run 9 5/8" casing

Built 180 bbl premix to replace volume in active as required. Made up and pumped hi-vis sweep at TD.

27/06/2005 TD = 1720 m Day 12

Run & cement 9-5/8" casing. Shoe at 1719.79m. Latch seal assembly and pressure test to 5000 psi.

Used 7 new Santos screens preparing shakers for displacement to FloPro system. 2 x 84, 2 x 105, 1 x 140, 2 x 145 mesh

Mixing Flo Pro mud. 300 bbl in Pit 2 and 410 bbls in Pit 5.

Received 830 bbl NaCl/KCl brine, 9.7ppg, from Far Grip.



Operator : Santos Ltd

Well Name: Casino 5
Contractor: Diamond Offshore

Field/Area: VIC P-44

Description : Gas Devlopment **Location :** Otway Basin

Daily Discussion

M-I Well:

28/06/2005 TD = 1806 m Day 13

Laid down 12-1/4" BHA and made up 8-1/2" BHA. RIH. Drilled cement and shoe and cleaned out rat hole with KCl mud from previous section. Displaced to Flo-pro mud. Dumped all KCl mud from previous section. Cleaned out MT pits to take on CaCl2 brine (1227 bbls @ 10.0 ppg). Drilled 8 1/2" interval to 1806m.(TVD 1802m)

Completed mixing 1100 bbl (250 bbl dead volume in pits) Flo-Pro mud. Made up a hi-vis spacer in the slug pit. After displacement to FloPro system, added Flo -Vis Plus to increase LSRV reading and for good hole cleaning.

29/06/2005 TD = 1806 m Day 14

RIH to bottom and displaced open hole with 56 bbl new Flo-Pro mud. Pulled out to 1650 m and displaced casing with 464 bbl CaCl2 brine. POOH. Running production screens(6 x 38ft)

Mixed CaCl2 brine as per programme with Safe-Cor, Safe-Cide and Dirt Magnet. A 50 bbl high vis wash spacer was used to separate the Flo-Po mud and the CaCl2 brine.

30/06/2005 TD = 1806 m Day 15

RIH with expandable screened completion liner. Set packer and POOH. Pick up liner expansion tool. RIH. Unable to complete expansion due to oversized BHA. POOH to change BHA. Received 260bbls NaCl/KCl brine 9.7ppg from Far Grip. Weighted to 10ppg and added inhibitors. No treatments made to CaCl2 brine.

Made up and pumped 30 bbl Flo-Pro + Barite slug as instructed by Santos.

1/07/2005 TD = 1806 m Day 16

RIH to expand production screens. POOH. RIH for scraper run. Displace to CaCl2 brine. Pumped 43 bbl hi vis pill, 152 bbls NaCl brine followed by 462 bbls CaCl2 brine. Taking last 330 bbls NaCl brine off the Far Grip. Transferring all brine remnants from pits into Pit #5. Dumped all muddy brine from hole during displacement.

Mixed viscous pill in slug pit for displacement to separate muddy brine in casing from new clean inhibited brine.

2/07/2005 TD = 1806 m Day 17

RIH to jet clean BOP stack. Rig up to run production tubing. Received total 677 bbls NaCl brine from Far Grip and 35.97 mt Gel. No mud or brine treatment.



COST BY INTERVAL



Operator: Santos Ltd Field/Area: VIC P-44

Well Name: Casino 5

Contractor: Diamond Offshore

Description: Gas Devlopment

Location: Otway Basin

;	SUMMARY OF PRODUCT USAGE FOR	R 36" INTERVAL	16/06/200	5 - 16/06/2005,	69 - 133 m	
1	WATER-BASED MUD	SIZE	AMOUNT	UNIT COST	PROD COST	
				(\$)	(\$)	
	1 - CALCIUM CHLORIDE Sacks	25 KG BG	17	0.00	0.00	
2	2 - CAUSTIC SODA	25 KG DM	3	20.46	61.38	
;	3 - DEFOAM A	5 GA CN	6	73.39	440.34	
4	4 - MI Gel (Bulk)	1 MT BG	20	251.54	5030.80	
;	5 - CALCIUM CHLORIDE (BB)	500 KG BG	1	210.00	210.00	
;	SUB TOTAL:				5742.52	
-	ΓAX:				0.00	
\	WATER-BASED MUD TOTAL COST:				5742.52	
-	TOTAL MUD COST FOR INTERVAL:				5742.52	



Operator: Santos Ltd Field/Area: VIC P-44

Well Name: Casino 5

Contractor: Diamond Offshore

Description: Gas Devlopment

Location: Otway Basin

SUMMARY OF PRODUCT USAGE F	OR 17.5" INTERVAL	17/06/2	005 - 19/06/200	5, 133 - 665 m
WATER-BASED MUD	SIZE	AMOUNT	UNIT COST	PROD COST
			(\$)	(\$)
1 - CALCIUM CHLORIDE Sacks	25 KG BG	18	0.00	0.00
2 - CAUSTIC SODA	25 KG DM	11	20.46	225.06
3 - DEFOAM A	5 GA CN	1	73.39	73.39
4 - MI Gel (Bulk)	1 MT BG	57	251.54	14456.00
SUB TOTAL:				14754.45
TAX:				0.00
WATER-BASED MUD TOTAL COST:				14754.45
TOTAL MUD COST FOR INTERVAL:				14754.45



Field/Area: VIC P-44 **Operator**: Santos Ltd

Well Name: Casino 5 **Description:** Gas Devlopment Contractor: Diamond Offshore Location: Otway Basin

SUMMARY OF PRODUCT USAGE F	OR 12.25" INTERVAL	20/06/200	5 - 22/06/2005,	655 - 994 m
WATER-BASED MUD	SIZE	AMOUNT	UNIT COST	PROD COST
			(\$)	(\$)
1 - CAUSTIC SODA	25 KG DM	2	20.46	40.92
2 - MI Gel (Bulk)	1 MT BG	9	251.54	2263.86
SUB TOTAL:				2304.78
TAX:				0.00
WATER-BASED MUD TOTAL COST:				2304.78
TOTAL MUD COST FOR INTERVAL:				2304.78



Operator: Santos Ltd Field/Area: VIC P-44

Well Name: Casino 5

Contractor: Diamond Offshore

Description: Gas Devlopment
Location: Otway Basin

SUMMARY OF PRODUCT USAGE	FOR12.25"INTERVAL	23/06/200	5 - 27/06/2005,	994 - 1730 m
WATER-BASED MUD	SIZE	AMOUNT	UNIT COST	PROD COST
			(\$)	(\$)
1 - CAUSTIC SODA	25 KG DM	4	20.46	81.84
2 - DEFOAM A	5 GA CN	5	73.39	366.95
3 - DUO-VIS	25 KG BG	101	227.00	22927.00
4 - GLUTE 25	25 LT CN	8	93.68	749.44
5 - OS-1	25 KG BG	26	33.54	872.04
6 - POLYPAC UL	25 KG BG	107	96.30	10304.10
7 - SODA ASH	25 KG BG	22	13.04	286.88
8 - IDCAP D	25 KG BG	114	240.73	27443.22
9 - POTASSIUM HYDROXIDE	25 KG CN	29	31.28	907.12
10 - MI BAR (Bulk)	1 MT BG	84	231.20	19517.90
11 - MI Gel (Bulk)	1 MT BG	17	251.54	4293.79
12 - BRINE KCI 16%	1 BL BL	2000	13.00	26000.00
13 - BRINE NaCl 18%+KCl 5%	1 BL BL	520	14.00	7280.00
SUB TOTAL:				121030.28
TAX:				0.00
WATER-BASED MUD TOTAL COST:				121030.28
TOTAL MUD COST FOR INTERVAL:				121030.28



Operator: Santos Ltd Field/Area: VIC P-44

Well Name: Casino 5

Contractor: Diamond Offshore

Description: Gas Devlopment
Location: Otway Basin

SUMMARY OF PRODUCT USAGE F	FOR 8.5" INTERVAL	28/06/200	5 - 2/07/2005,	1730 - 1806 m
WATER-BASED MUD	SIZE	AMOUNT	UNIT COST	PROD COST
			(\$)	(\$)
1 - GLUTE 25	25 LT CN	5	93.68	468.40
2 - FLO-VIS PLUS	25 KG BG	36	407.58	14672.88
3 - POTASSIUM HYDROXIDE	25 KG CN	6	31.28	187.68
4 - OMYACARB 20	25 KG BG	1104	8.27	9130.08
5 - DUAL-FLO HT	50 LB BG	74	103.08	7627.92
6 - BRINE NaCl 18%+KCl 5%	1 BL BL	618	14.00	8652.00
7 - SALT - FINE	1.2 MT BG	2	248.41	496.82
SUB TOTAL:				41235.78
TAX:				0.00
WATER-BASED MUD TOTAL COST:				41235.78
COMPLETION FLUID	SIZE	AMOUNT	UNIT COST	PROD COST
			(\$)	(\$)
1 - DUO-VIS	25 KG BG	1	227.00	227.00
2 - OS-1	25 KG BG	2	33.54	67.08
3 - MI BAR (Bulk)	1 MT BG	2	231.20	462.40
4 - BRINE NaCl 18%+KCl 5%	1 BL BL	937	14.00	13118.00
5 - SALT - FINE	1.2 MT BG	8	248.41	1987.28
6 - DIRT MAGNET	55 GA DM	8	1449.55	11596.40
7 - SAFE-CIDE	25 KG CN	5	91.77	458.85
8 - SAFE-COR	55 GA DM	13	316.31	4112.03
9 - SAFE-VIS E	5 GA CN	15	195.00	2925.00
10 - SAFE-SURF WN	200 KG DM	1	898.50	898.50
11 - BRINE CALCIUM CHLORIDE	1 BL BL	1227	27.00	33129.00
12 - CALCIUM CHLORIDE (BB)	500 KG BG	13	210.00	2730.00
DRILLING DRILLING	G FLUIDS DATA MANAC	SEMENT SYST	EM	



Operator: Santos Ltd Field/Area: VIC P-44

Well Name: Casino 5

Contractor: Diamond Offshore

Description: Gas Devlopment

Location: Otway Basin

SUMMARY OF PRODUCT USAGE FOR 8.5" INTERVAL 28/06/2005 - 2/07/2005, 1730 - 1806 m

SUB TOTAL: 71711.54

TAX: 0.00

CALDRIL TOTAL COST: 71711.54

TOTAL MUD COST FOR INTERVAL: 112947.32



DAILY VOLUME SUMMARY SHEET

36" Interval Seawater/Gel Sweeps

			Mud Volu	ıme (bbl)						Volume l	Built bbl							Volum	e Lost bbl			
Date	Depth	Hole	Surf	Premix	Reserve	Total	Water	Vater Mud Synthetic Brine Chemical Barite Daily Cum							Shakers	Centri-	Desilter	Dump	Hole	Sweeps	Daily	Cummul
		Active	Active			Vol		Received	Added	Added			Built	Built		fuge					Total	Lost
16-Jun-05	133	0	0	502	0	502	1630.68				49.32		1680	1680						1178	1178	1178

17.5" Interval Seawater/Gel Sweeps

			Mud Volu	ıme (bbl)						Volume l	Built bbl							Volum	e Lost bbl			
Date	Depth	Hole	Surface	Premix	Reserve	Total	Water	Mud	Synthetic	Brine	Chemical	Barite	Daily	Cum	Shakers	Centri-	Desilter	Dump	Hole	Sweeps	Daily	Cummul
		Active	Active			Vol		Received	Added	Added			Built	Built		fuge					Total	Lost
17-Jun-05	133			1349		1349	832	502			15		1349	1349							0	0
18-Jun-05	665			650		650	2351				100		2451	3800						3150	3150	3150
19-Jun-05	665			520		520	845				26		871	4671				391		610	1001	4151

12.25" Interval Seawater / Hi Vis Sweeps

			Mud Volu	ıme (bbl)						Volume I	Built bbl							Volum	e Lost bbl			
Date	Depth	Hole	Surf	Premix	Reserve	Total	Drill	Mud	Synthetic	Brine	Chemical	Barite	Daily	Cum	Shaker	Centri-	Desander	Dump	Hole	Sweeps	Daily	Cummul
		Active	Active			Vol	Water	Received	Added	Added	Volume	Volume	Total	Built	Losses	fuge	/ Desilter		downhole		Total	Lost
20-Jun-05	665			520		520		520					520	520							0	0
21-Jun-05	665			520		520							0	520							0	0
22-Jun-05	951			0		0	1078				22		1100	1620				80		1540	1620	1620

12.25" Interval KCl-Polymer

_			Mud Volu	ıme (bbl)						Volume E	Built bbl							Volum	e Lost bbl			
Date	Depth	Hole	Surf	Premix	Reserve	Total	Water	Mud	Brine	Base Oil	Chemical	Barite	Daily	Cum	Shakers	Centri-	Desilter	Dump	Downhole	Left in	Daily	Cummul
		Active	Active			Vol		Received	Added	Volume	Volume	Volume	Total	Built		fuge			Losses	Hole	Total	Lost
20-Jun-05	665				1480	1480	393.5		1000		22	64.5	1480	1480							0	0
23-Jun-05	1160	642	413	583	500	2138	206.5		1000		16.5	23	1246	2726	148				440		588	588
24-Jun-05	1343	714	477	301	1020	2512	30		520		2	8	560	3286	142			44			186	774
25-Jun-05	1690	827	493	180	1000	2500	20				3	11	34	3320	46						46	820
26-Jun-05	1730	903	421	207	520	2051					5	16	21	3341	178			292			470	1290
27-Jun-05	1720	503	475	207	520	1705							0	3341	95					251	346	1636
28-Jun-05	1730				520	520							0	3341				1185			1185	2821

8.5" Casino 5 - Flo Pro

			Mud Volu	ıme (bbl)						Volume I	Built bbl							Volum	e Lost bbl			
Date	Depth	Hole	Surf	Premix	Reserve	Total	Water	Mud	Brine	Base Oil	Chemical	Barite	Daily	Cum	Shakers	Centri-	Desilter	Dump	Hole	Other	Daily	Cummul
			Active			Vol		Received	Added	Volume			Total	Built		fuge					Total	Lost
28-Jun-05	1806	478	537	91		1106		520	618		168		1306	1306	80			120			200	200
29-Jun-05	1806	0	630	329		959							0	0				147			147	347

8.5" Casino 5 - CaCl2 Brine

		Mud Volume (bbl)						Volume Built bbl						Volume Lost bbl								
Date	Depth	Hole	Surf	Premix	Reserve	Total	Water	Mud	Brine	Mud	Chemical	Barite	Daily	Cum	Shakers	Centri-	Desilter	Dump	Hole	Other	Daily	Cummul
			Active			Vol		Received	Added	Built			Total	Built		fuge					Total	Lost
29-Jun-05	1806	494	647	15		1156			1227		20		1247	1247				91			91	91
30-Jun-05	1806	523	658			1181							0	0				37			37	128
1-Jul-05	1806	484	303	35		822					14		14	14				699			699	827
2-Jul-05	1806	454				454							0	0				424			424	1251
						0							0	0							0	1251



TOTAL
MATERIAL
COST



Operator: Santos Ltd Field/Area: VIC P-44

Well Name: Casino 5

Contractor: Diamond Offshore

Description: Gas Devlopment

Location: Otway Basin

SUMMARY OF PRODUCT USAGE F	FOR WELL	15/06/200	05 - 2/07/2005,	69- 1806 m	
WATER-BASED MUD	SIZE	AMOUNT	UNIT COST	PROD COST	
			(\$)	(\$)	
1 - CALCIUM CHLORIDE Sacks	25 KG BG	35	0.00	0.00	
2 - CAUSTIC SODA	25 KG DM	20	20.46	409.20	
3 - DEFOAM A	5 GA CN	12	73.39	880.68	
4 - DUO-VIS	25 KG BG	101	227.00	22927.00	
5 - GLUTE 25	25 LT CN	13	93.68	1217.84	
6 - OS-1	25 KG BG	26	33.54	872.04	
7 - POLYPAC UL	25 KG BG	107	96.30	10304.10	
8 - SODA ASH	25 KG BG	22	13.04	286.88	
9 - FLO-VIS PLUS	25 KG BG	36	407.58	14672.88	
10 - IDCAP D	25 KG BG	114	240.73	27443.22	
11 - POTASSIUM HYDROXIDE	25 KG CN	35	31.28	1094.80	
12 - OMYACARB 20	25 KG BG	1104	8.27	9130.08	
13 - MI BAR (Bulk)	1 MT BG	84	231.20	19517.90	
14 - MI Gel (Bulk)	1 MT BG	104	251.54	26044.45	
15 - BRINE KCI 16%	1 BL BL	2000	13.00	26000.00	
16 - DUAL-FLO HT	50 LB BG	74	103.08	7627.92	
17 - BRINE NaCl 18%+KCl 5%	1 BL BL	1138	14.00	15932.00	
18 - SALT - FINE	1.2 MT BG	2	248.41	496.82	
19 - CALCIUM CHLORIDE (BB)	500 KG BG	1	210.00	210.00	
SUB TOTAL:				185067.82	
TAX:				0.00	
WATER-BASED MUD TOTAL COST:				185067.82	



Operator: Santos Ltd Field/Area: VIC P-44

Well Name: Casino 5

Contractor: Diamond Offshore

Description: Gas Devlopment

Location: Otway Basin

SUMMARY OF PRODUCT USAGE F	OR WELL	15/06/2	2005 - 2/07/200	5, 69 - 1806 m
CALDRIL	SIZE	AMOUNT	UNIT COST	PROD COST
			(\$)	(\$)
1 - DUO-VIS	25 KG BG	1	227.00	227.00
2 - OS-1	25 KG BG	2	33.54	67.08
3 - MI BAR (Bulk)	1 MT BG	2	231.20	462.40
4 - BRINE NaCl 18%+KCl 5%	1 BL BL	937	14.00	13118.00
5 - SALT - FINE	1.2 MT BG	8	248.41	1987.28
6 - DIRT MAGNET	55 GA DM	8	1449.55	11596.40
7 - SAFE-CIDE	25 KG CN	5	91.77	458.85
8 - SAFE-COR	55 GA DM	13	316.31	4112.03
9 - SAFE-VIS E	5 GA CN	15	195.00	2925.00
10 - SAFE-SURF WN	200 KG DM	1	898.50	898.50
11 - BRINE CALCIUM CHLORIDE	1 BL BL	1227	27.00	33129.00
12 - CALCIUM CHLORIDE (BB)	500 KG BG	13	210.00	2730.00
SUB TOTAL:				71711.54
TAX:				0.00
CALDRIL TOTAL COST:				71711.54
TOTAL MUD COST FOR INTERVAL:				256779.36



HYDRAULICS REPORT



HYDRAULICS SUMMARY

Operator : Santos Ltd Field/Area : VIC P-44

Well Name : Casino 5 Description : Gas Devlopment

Contractor: Diamond Offshore Location: Otway Basin

Contractor	Diamond C	nsnore				1: Olway E			
Date		16/06/2005	17/06/2005	18/06/2005	19/06/2005	20/06/2005	21/06/2005	22/06/2005	23/06/2005
Depth	m	112	133	504	665	665	665	879	1160
Days Since Spud		1	2	3	4	5	6	7	8
*RHEOLOGICAL PF	ROPERTIES								
Mud Wt	sp.gr.	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.22
Plastic Visc	cP	11	10	17	12	10	10	10	15
Yield Point	lb/100ft ²	50	50	31	48	50	55	54	26
3-rpm Rdg	Fann deg	49	47	28	48	48	49	50	8
np Value		.2392	.2224	.4374	.263	.2224	.2065	.2095	.4498
•	lb•s^n/100ft²	14.6445	15.995	3.3476	12.4139	15.995	19.1391	18.4951	2.6466
na Value		.0224	.0233	.0636	.0336	.0388	.0431	.0272	.3249
	lb•s^n/100ft²	50.4089	48.2793	26.9303	48.4853	48.0732	48.7313	51.0363	5.0241
*FLOW DATA	10 0 11/10010	20009	10.2778	20.3505	10.1000	10.0722	10.7515	21.02.02	0.02.11
Flow Rate	gal/min	1073	1073	1204	1204	0	0	1003	973
Pump Pressure	psi	1100	1100	2800	2800	0	0	3000	3000
Pump	hhp	689	*	*	1967	*	*	1756	*
*PRESSURE LOSSE		007			170/			1/30	
		227	*	*	67	*	*	629	*
Drill String Bit	psi	524	*	*	934	*	*	589	*
	psi		*	*		*	*	99	*
Annulus	psi	1 752	*	*	101	*	*		*
Total System	psi	752	*	Ť	1102	*	*	1316	*
*BIT HYDRAULICS									
Nozzles	1/32"	3x24		3x22	3x22	3x20	3x20	3x20	3x20
Nozzles	1/32"					18	18	18	18
Bit Pressure	%	48	*	*	33	*	*	20	*
Bit	hhp	328	*	*	656	*	*	344	*
Bit HSI	(index)	.32	*	*	2.73	*	*	2.92	*
Jet Velocity	ft/s	79	*	*	106	*	*	84	*
Impact Force	Newton	1252	*	*	1876	*	*	1240	*
DRILL COLLARS A	NNULUS								
Velocity	m/s		*	*	1	*	*	1	*
Critical Vel	m/s	3	*	*	3	*	*	3	*
Reynolds Number		6	*	*	599	*	*	815	*
Crit Re (Lam - Tran)		3142	*	*	3110	*	*	3183	*
*DRILL PIPE ANNU	ILUS								
Velocity	m/s		*	*	1	*	*	1	*
Critical Vel	m/s	3	*	*	3	*	*	3	*
Reynolds Number		5	*	*	599	*	*	396	*
Crit Re (Lam - Tran)		3142	*	*	3110	*	*	3183	*
*HOLE CLEANING									
Slip Velocity	m/s		*	*		*	*		*
Rising Velocity	m/s		*	*	1	*	*	1	*
Lifting Capacity	%	4	*	*	93	*	*	91	*
Cutting Conc	%	0.0	*	*	0.0	*	*	1.47	*
Penetration Rate	m/h	0	0	0	0	0	0	40	40
CASING SHOE PRE			-		-				
ECD	sp.gr.	1.04	*	*	1.05	*	*	1.1	*
ECD+Cuttings	sp.gr.	1.04	*	*	1.05	*	*	1.12	*
TOTAL DEPTH PRE		1.01			1.05			1.12	
ECD ECD		1.05	*	*	1.15	*	*	1.11	*
ECD+Cuttings	sp.gr. sp.gr.	1.05	*	*	1.15	*	*	1.11	*
	sp.gr.	1.03							
M-I L.L.C.			DRIL	LING FLUID	OS DATA M	ANAGEMEN	NT SYSTEM		

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HYDRAULICS SUMMARY

Operator : Santos Ltd Field/Area : VIC P-44

Well Name : Casino 5 Description : Gas Devlopment

Contractor : Diamond Offshore Location : Otway Basin

Date		24/06/2005	25/06/2005	26/06/2005	27/06/2005	28/06/2005	29/06/2005	30/06/2005	1/07/2005
Depth	m	1284	1598	1730	1730	1806		1806	
Days Since Spud		9	10	11	12	13	14	15	16
*RHEOLOGICAL PROPE	ERTIES								
Mud Wt	sp.gr.	1.22	1.25	1.25	1.24	1.24	1.22	1.22	1.2
Plastic Visc	cP	11	17	14	14	14	-		
	lb/100ft ²	26	39	36	33	32			
	Fann deg	7	11	9	14	12			
np Value		.3755	.3825	.3561	.3761	.3833	.3833	.3833	.3833
	\n/100ft ²	3.796	5.5013	5.7882	4.8028	4.4948	4.4948	4.4948	4.4948
na Value		.3514	.3459	.3705	.2358	.2707	.2707	.2707	.2707
	n/100ft ²	4.2105	6.6756	5.2471	10.1691	8.2339	8.2339	8.2339	8.2339
*FLOW DATA									
Flow Rate	gal/min	1023	918	0	0	682	0	0	0
Pump Pressure	psi	3129	3200	0	0	2373	0	0	0
Pump	hhp	1868	1714	*	*	944	*	*	*
*PRESSURE LOSSES									
Drill String	psi	1169	1295	*	*	553	*	*	*
Bit	psi	718	840	*	*	535	*	*	*
Annulus	psi	48	102	*	*	275	*	*	*
Total System	psi	1935	2237	*	*	1363	*	*	*
*BIT HYDRAULICS	Por	1,55	3207			-505			
Nozzles	1/32"	3x20	5x16			2x16			
Nozzles	1/32"	18	SATO			3x15			
Bit Pressure	%	23	26	*	*	23	*	*	*
Bit	hhp	429	450	*	*	213	*	*	*
Bit HSI	(index)	3.64	3.82	*	*	3.75	*	*	*
Jet Velocity	ft/s	86	91	*	*	73	*	*	*
*	Newton	1513	1487	*	*	878	*	*	*
DRILL COLLARS ANNU		1313	1107			070			
Velocity	m/s	1	1	*	*	3	*	*	*
Critical Vel	m/s	2	2	*	*	2	*	*	*
Reynolds Number	111/3	1376	1049	*	*	3980	*	*	*
Crit Re (Lam - Tran)		2956	2946	*	*	2945	*	*	*
*DRILL PIPE ANNULUS		2730	2710			2713			
Velocity	m/s	1	1	*	*	3	*	*	*
Critical Vel	m/s	2	2	*	*	2	*	*	*
Reynolds Number	111/3	975	680	*	*	3980	*	*	*
Crit Re (Lam - Tran)		2956	2946	*	*	2945	*	*	*
*HOLE CLEANING		2,50	27.10			27 13			
Slip Velocity	m/s			*	*		*	*	*
Rising Velocity	m/s	1	1	*	*	3	*	*	*
Lifting Capacity	%	91	93	*	*	98	*	*	*
Cutting Conc	%	0.47	0.86	*	*	0.87	*	*	*
Penetration Rate	m/h	13	22	0	0	36	0	0	0
CASING SHOE PRESSUE		13		,	J	33	,	,	
ECD ECD	sp.gr.	1.24	1.29	*	*	1.34	*	*	*
ECD+Cuttings	sp.gr.	1.25	1.3	*	*	1.35	*	*	*
TOTAL DEPTH PRESSUI		1.20	1.5			1.33			
ECD ECD	sp.gr.	1.25	1.29	*	*	1.35	*	*	*
ECD+Cuttings	sp.gr.	1.25	1.3	*	*	1.36	*	*	*
	~P91.	1.20			0.0474.55		IT OVOTES		
M-I L.L.C.			DRIL	LING FLUID	S DATA MA	ANAGEMEN	NI SYSTEM		

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HYDRAULICS SUMMARY

Operator : Santos Ltd

Well Name: Casino 5

Contractor: Diamond Offshore

Field/Area: VIC P-44

Description: Gas Devlopment

Location: Otway Basin

Date	2/07/2005							
Depth m								
Days Since Spud	17							
*RHEOLOGICAL PROPERTIES								
Mud Wt sp.gr.	1.2							
Plastic Visc cP								
Yield Point lb/100ft ²								
3-rpm Rdg Fann deg								
np Value	.3833							
Kp Value lb•s^n/100ft²	4.4948							
na Value	.2707							
Ka Value lb•s^n/100ft²	8.2339							
*FLOW DATA	8.2339							
	0							
	0							
Pump Pressure psi	*							
Pump hhp	*							
*PRESSURE LOSSES	yi.							
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 Newton	*							
DRILL COLLARS ANNULUS								
Velocity m/s	*							
Critical Vel m/s	*							
Reynolds Number	*							
Crit Re (Lam - Tran)	*							
*DRILL PIPE ANNULUS								
Velocity m/s	*							
Critical Vel m/s	*							
Reynolds Number	*							
Crit Re (Lam - Tran)	*							
*HOLE CLEANING								
	*							
Slip Velocity m/s	*							
Rising Velocity m/s	*							
Lifting Capacity %	*							
Cutting Conc %								
Penetration Rate m/h	0							
CASING SHOE PRESSURES	No.							
ECD sp.gr.	*							
ECD+Cuttings sp.gr.	*							
TOTAL DEPTH PRESSURES								
ECD sp.gr.	*							
ECD+Cuttings sp.gr.	*							
M-I LLC.		DRIL	LING FLUID	S DATA M	ANAGEMEN	NT SYSTEM	l	



DRILLING
FLUIDS
SUMMARY



Operator: Santos Ltd Field/Area: VIC P-44

Well Name: Casino 5

Contractor: Diamond Offshore

Description: Gas Devlopment

Location: Otway Basin

Contractor 1 B	amena eneme				oution: other	au	
Date		15/06/2005	16/06/2005	17/06/2005	18/06/2005	19/06/2005	20/06/2005
Depth/TVD	m	/	112/112	133/133	504/504	665/665	665/665
Activity			Drilling	WOC	Tripping	WOC	Run BOP
Mud Type		Spud Mud	Spud Mud				
Hole Size	in	36	36	17.5	17.5	17.5	12.25
Circ Volume	bbl		30	17.0	17.0	17.0	12.20
Flow Rate	gal/min	0	1073	1073	1204	1204	0
Circ Pressure	psi	0	1100	1100	2800	2800	0
Avg ROP	m/hr	0	0	0	0	0	0
Sample From	111/111	U	Pit 3	Pit 3	Pit 3	Pit 2	Pit 2
Flow Line Temp	°C		rii 3	FIL 3	FIL 3	FIL Z	FIL Z
Mad Waight		@ °C	1.04© 12.9C	1.04@15.9C	1.04@15.9C	1.04@15.90	1.04@15.90
Mud Weight	sp.gr.	(a) C	1.04@ 13 °C	1.04@15 °C	1.04@15 °C	1.04@15 °C	1.04@15 °C
Funnel Viscosity	s/qt		> 200	>200	>100	> 100	> 100
PV	cP		11	10	17	12	10
YP	lb/100ft ²		50	50	31	48	50
R600/R300/R200		//	72/61/58	70/60/56	65/48/43	72/60/58	70/60/58
R100/R6/R3	4	//	53/49/49	51/48/47	35/28/28	54/48/48	55/49/48
10s/10m/30m Gel	lb/100ft ²	//	53/54/	51/53/	38/54/54	36/55/55	38/52/53
API Fluid Loss	cc/30 min		13	14	13	13	13
HTHP Fluid Loss	cc/30 min						
Cake API/HT	1/32"	/	1/	1/	1/	1/	1/
Solids	%Vol		2	2	2	2	2
Oil/Water	%Vol	/	/98	/98	/98	/98	/98
Sand	%Vol	,	,,,,	,,,,	,,,,	,,,,	,,,,
MBT	lb/bbl		28	28	27	28	27
pH	10/001		9.5	9.5	10	10	10
Alkal Mud (Pm)			0.55	0.5	0.65	0.6	0.5
Pf/Mf		1	0.35/0.6	0.35/0.6	0.4/0.7	0.4/0.7	0.35/0.7
Chlorides	m ∝/1	/	1050	1000	850	850	850
	mg/l		40	40	40	40	
Hardness Ca	0/ 4		40	40	40	40	40
KCl	% wt						
Sulphite Excess	ppm						
Idcap	ppb						
LSRV	0.3rpm						
Daily Mud Cost	\$	0.00	5742.52	1570.62	10435.90	2747.93	0.00
Cuml Mud Cost	\$	0.00	5742.52	7509.32	17945.22	20693.15	20693.15
Sales Engineer		Glen Sh/Jasdeep	Glen Sh/Jasdeep	Kelvin /Jasdeep	Kelvin /Jasdeep	Kelvin /Jasdeep	Kelvin /Jasdeep
Products Used			CaCl2 / 17	CaCl2 / 18	NaOH / 6	NaOH / 2	
			NaOH / 3	NaOH / 3	BulkGel / 41	DFOAM / 1	
			DFOAM / 6	BulkGel / 6		BulkGel / 10.47	
			BulkGel / 20	Dumoti / U		2 3.11.001 / 10.11	
			CaClBB / 1				
			CaCIDD / I				

REMARKS

15/06/2005: 16/06/2005: 17/06/2005:

18/06/2005: 19/06/2005:

20/06/2005:

M-I L.L.C.

DRILLING FLUIDS DATA MANAGEMENT SYSTEM



Operator: Santos Ltd Field/Area: VIC P-44

Well Name: Casino 5

Contractor: Diamond Offshore

Description: Gas Devlopment

Location: Otway Basin

Date		20/06/2005	21/06/2005	21/06/2005	22/06/2005	22/06/2005	23/06/2005
Depth/TVD	m	665/665	665/ 665	665/665	879/879	655/ 655	1160/1160
Activity		Run BOP	Pressure Test	Pressure Test	Drill 12.25" Hole		Tripping
Mud Type		Spud Mud	Spud Mud	Spud Mud	Spud Mud	Spud Mud	KC1/IDCAP
Hole Size	in	12.25	12.25	12.25	12.25	12.25	12.25
Circ Volume	bbl						1055
Flow Rate	gal/min	0	0	0	1003	1003	973
Circ Pressure	psi	0	0	0	3000	3000	3000
Avg ROP	m/hr	0	0	0	40	40	40
Sample From		Pit 4	Gel Mud	KCl-Polyme	PHG	KCl-IDCAP	Pit 3
Flow Line Temp	°C			,			38
Mud Weight	sp.gr.	1.22@15 °C	1.04@15 °C	1.22@ 15 °C	1.04@15 °C	1.21@15 °C	1.22@37 °C
Funnel Viscosity	s/qt	58	> 100	54	>100	49	55
PV	cP	12	10	11	10	10	15
YP	lb/100ft ²	14	55	14	54	13	26
R600/R300/R200	20, 20020	38/26/20	75/65/60	36/25/20	74/64/59	33/23/19	56/41/34
R100/R6/R3		14/5/4	57/50/49	14/5/4	55/50/50	14/5/4	25/10/8
10s/10m/30m Gel	lb/100ft ²	4/7/7	40/55/55	5/6/7	38/55/57	4/5/6	10/15/18
API Fluid Loss	cc/30 min	8.8	14	7	13	7.3	4.8
HTHP Fluid Loss	cc/30 min						
Cake API/HT	1/32"	1/	1/	1/	1/	1/	1/
Solids	%Vol	9	2	8	2	8	9
Oil/Water	%Vol	/91	/98	/92	/98	/92	/91
Sand	%Vol	// +	770	172	1,70	172	1
MBT	lb/bbl	5	27	5	28	5	2.5
pH	10/001	6.5	10	7.0	9.5	7.2	9
Alkal Mud (Pm)		0	0.4	0	0.45	0	0.4
Pf/Mf		0/1.7	0.3/0.5	0/1.8	0.25/0.5	0/1.7	0.1/0.5
Chlorides	mg/l	46000	800	47000	750	45000	42000
Hardness Ca	1119/1	1600	80	1600	80	1400	560
KCl	% wt	9		9		7.5	8
Sulphite Excess	ppm	,				7.0	25
Idcap	ppb	1.2		1.5		1.5	2.4
LSRV	0.3rpm	-		1.0		1.0	
	V 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10						
Daily Mud Cost	\$		0.00		2304.78		95023.08
Cuml Mud Cost	\$		20693.15		22997.93		118021.01
Sales Engineer	Ψ	Kelvin /Jasdeep	Kelvin /Jasdeep	Kelvin /Jasdeep	Kelvin /Jasdeep	Kelvin /Jasdeep	Kelvin /Jasdeep
Products Used		Retviii / Jusucep	rerviii/susacep	ixerviii/sasacep	NaOH / 2	Retviii/susucep	NaOH / 4
Troducts Osca					BulkGel / 9		DFOAM / 4
					BuikGer		Duovis / 80
							Glut / 8
							OS-1 / 20
							PacUL / 90
							Soda / 22
							Idcap / 91
							KOH / 13
							BulkBar / 58.42
							BulkGel / 17.07
							16%brin / 2000
							10/001111 / 2000
			1		1	l .	

RE	MARKS)

21/06/2005:

22/06/2005:

23/06/2005:



Operator: Santos Ltd Field/Area: VIC P-44

Well Name: Casino 5

Contractor: Diamond Offshore

Description: Gas Devlopment

Location: Otway Basin

Date		23/06/2005	24/06/2005	24/06/2005	25/06/2005	25/06/2005	25/06/2005
Depth/TVD	m	1026/1026	1284/1283	1160/1159	1598/1596	1404/1402	1392/1390
Activity		Tripping	Drilling 12.25"	Drilling 12.25"	Drilling 12 1/4"	Drilling 12 1/4"	Drilling 12 1/4"
Mud Type		KC1 / IDCAP	KC1 / IDCAP	KC1 / IDCAP	KCl / IDCAP	KC1 / IDCAP	KC1 / IDCAP
Hole Size	in	12.25	12.25	12.25	12.25	12.25	12.25
Circ Volume	bbl	1055	1191	1191	1320	1320	1320
Flow Rate	gal/min	973	1023	1023	918	918	918
Circ Pressure	psi	3000	3129	3129	3200	3200	3200
Avg ROP	m/hr	40	13	13	22	22	22
Sample From	111/111	Pit 3	Pit 3	Pit 3	Pit 3	Pit 3	Pit 3
Flow Line Temp	°C	32	48	32	48	43	58
Mud Weight	sp.gr.	1.21@25 °C	1.22@39 °C	1.22@30 °C	1.25@46 °C	1.23@36 °C	1.22@30 °C
Funnel Viscosity	s/qt	50	49	60	54	47	49
PV	cP	12	11	15	17	14	14
YP	lb/100ft ²	19	26	28	39	34	36
R600/R300/R200	10/1001	43/31/25	48/37/32	58/43/36	73/56/47	62/48/41	64/50/42
R100/R6/R3		17/6/5	24/10/7	26/10/8	37/14/11	32/13/9	33/12/9
10s/10m/30m Gel	lb/100ft ²	6/6/7	8/12/14	9/13/14	13/15/18	11/13/17	10/15/17
API Fluid Loss	cc/30 min	5.6	5.0	5.0	3.8	4.8	4.5
HTHP Fluid Loss	cc/30 min	3.0	3.0	3.0	3.0	1.0	1.5
Cake API/HT	1/32"	1/	1/	1/	1/	1/	1/
Solids	%Vol	8	10	9	12	10	10
Oil/Water	%Vol	/92	/90	/91	/88	/90	/90
Sand	%Vol	tr	0.5	0.5	0.5	0.5	0.5
MBT	lb/bbl	5	5	5	6	6	5
pH	10/001	7.2	8.4	8.3	8	7.9	7.9
Alkal Mud (Pm)		0	0.1	0.5	0.4	0.4	0
Pf/Mf		0/1.4	0.9/0.8	0.05/1.4	0.1/1.4	0.1/1.4	0.05/1.5
Chlorides	mg/l	44000	45000	43000	45000	45000	46000
Hardness Ca	1118/1	1600	1040	1280	1040	1000	1160
KCl	% wt	8	6	6.5	6	6	6.5
Sulphite Excess	ppm	25	250	250	200	200	250
Idcap	ppb	1.5	2.44	2.4	200	2.5	2.5
LSRV	0.3rpm	1.3	2.44	2.4		2.3	2.3
LSKV	0.51pm						
Daily Mud Cost	\$		11704.00		5941.65		
Cuml Mud Cost	\$		129725.01		135666.66		
Sales Engineer	φ	V alasia /I and and	Kelvin /Gordon	Kelvin /Gordon	Kelvin /Gordon	Valaria /Candan	Valaria /Candan
Products Used		Kelvin /Jasdeep	Duovis / 12	Keivin /Gordon	Duovis / 1	Kelvin /Gordon	Kelvin /Gordon
Floducis Osed			KOH / 10		OS-1 / 6		
					PacUL / 11		
			BulkBar / 6 K/NaCl / 520		Idcap / 11		
			N/INaCI / 320		KOH / 6		
					BulkBar / 7		
					DUIKDAF / /		
DEMARKS			<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

KEWAKKS	•
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24/06/2005:

25/06/2005:



Operator: Santos Ltd Field/Area: VIC P-44

Well Name: Casino 5

Contractor: Diamond Offshore

Description: Gas Devlopment

Location: Otway Basin

Date		26/06/2005	27/06/2005	27/06/2005	28/06/2005	28/06/2005	
Depth/TVD	m	1730/1726	1730/1726	1730/1726	1806/1802	1720/ 1718	
Activity		Run 9 5/8" Casins	nning wear bush	nning wear bush	rilled 8 1/2" POO	illed 8 1/2" POC	
Mud Type		KC1 / IDCAP	KCl / IDCAP	KCl / IDCAP	FloPro	FloPro	
Hole Size	in	0	0	0	8.5	8.5	
Circ Volume	bbl	1325	979	979	1015	1015	
Flow Rate	gal/min	0	0	0	682	682	
Circ Pressure	psi	0	0	0	2373	2373	
Avg ROP	m/hr	0	0	0	36	36	
Sample From		Pit 3	FloPro	Pit 3	Pit 3	Pit 4	
Flow Line Temp	°C	58			43		
Mud Weight	sp.gr.	1.25@30 °C	1.24@24 °C	1.25@25 °C	1.24 @40 °C	1.24@15 °C	
Funnel Viscosity	s/qt	49	65	53	50	55	
PV	сP	14	14	17	14	11	
YP	lb/100ft ²	36	33	48	32	23	
R600/R300/R200		64/50/42	61/47/40	82/65/55	60/46/39	45/34/29	
R100/R6/R3		33/12/9	32/17/14	43/15/13	31/14/12	22/10/8	
10s/10m/30m Gel	lb/100ft ²	10/15/17	14/17/21	13/19/24	12/14/17	9/11/12	
API Fluid Loss	cc/30 min	4.5	5	4.3	5	4.8	
HTHP Fluid Loss	cc/30 min						
Cake API/HT	1/32"	1/	1/	1/	1/	1/	
Solids	%Vol	10	13	10	14	14	
Oil/Water	%Vol	/90	/87	/90	/86	/86	
Sand	%Vol	0.5	0	0.5	0.25	tr	
MBT	lb/bbl	5	0	7.5	<2.5	<2.5	
рН		7.9	9.9	7.8	9.7	9.7	
Alkal Mud (Pm)		0		0	0.8	0.8	
Pf/Mf		0.05/1.5	0.2/0.8	0.05/1.5	0.1/0.5	0.1/0.5	
Chlorides	mg/l	46000	144000	45000	148000	148000	
Hardness Ca	2.1	1160	80	1200	120	120	
KCl	% wt	6.5	6	6.5	6.5	6.5	
Sulphite Excess	ppm	250		250			
Ideap	ppb	2.5	4.470.1	2.9	20704	22705	
LSRV	0.3rpm		44791		39794	22795	
D.T. M. I.C.	¢.	0261.55	0.00		41225.70		
Daily Mud Cost	\$ \$	8361.55	0.00		41235.78		
Cuml Mud Cost	\$	144028.21	144028.21	W 1 : /G 1	185263.99	Y 1 : (C 1	
Sales Engineer		Kelvin /Gordon	Kelvin /Gordon	Kelvin /Gordon	Kelvin /Gordon	Kelvin /Gordon	
Products Used		DFOAM / 1			Glut / 5		
		Duovis / 8			Flo-Vis / 36		
		PacUL / 6 Idcap / 12			KOH / 6 Omya20 / 1104		
					Omya20 / 1104 DualHT / 74		
		BulkBar / 13			K/NaCl / 618		
					Salt F / 2		
					Sait F / Z		
L							

REMARKS

26/06/2005: 27/06/2005:

28/06/2005:



Operator: Santos Ltd Field/Area: VIC P-44

Well Name: Casino 5

Contractor: Diamond Offshore

Description: Gas Devlopment

Location: Otway Basin

Date		29/06/2005	29/06/2005	30/06/2005	30/06/2005	1/07/2005	1/07/2005
Depth/TVD	m	/	1806/1802	1806/1802	1806/1802	/	1806/1802
Activity		Running Screens		Tripping	Tripping	Displace to brine	
Mud Type		CaCl2 Brine	CaCl2 Brine	CaCl2 Brine	CaCl2 Brine	CaCl2 Brine	CaCl2 Brine
Hole Size	in	0	0	8.5	8.5	8.5	8.5
Circ Volume	bbl	1786	1786	1768	1768	1988	1988
Flow Rate	gal/min	0	0	0	0	0	0
Circ Pressure	psi	0	0	0	0	0	0
Avg ROP	m/hr	0	0	0	0	0	0
Sample From	111/111	CaCl2	FloPro	CaCl2	FloPro	NaCl pit 5	FloPro
Flow Line Temp	°C	Cuciz	110110	Cuciz	710110	1 vaci pit 5	110110
Mud Weight	sp.gr.	1.22@ °C	1.24@30 °C	1.22@ °C	1.24@30 °C	1.2@28 °C	1.24@30 °C
Funnel Viscosity	s/qt	-11=(5)	50		50	112(9)20	50
PV	cР		14		14		14
YP	lb/100ft ²		30		30		30
R600/R300/R200	10, 10010	//	58/44/38	//	58/44/38	//	58/44/38
R100/R6/R3		//	30/12/10	11	30/12/10	//	30/12/10
10s/10m/30m Gel	lb/100ft ²	//	10/12/15	//	10/12/15	//	10/12/15
API Fluid Loss	cc/30 min	.,	5	.,	5	.,	5
HTHP Fluid Loss	cc/30 min						
Cake API/HT	1/32"	/	1/	/	1/	/	1/
Solids	%Vol	,	14	,	14	,	14
Oil/Water	%Vol	/	/86	/	/86	/	/86
Sand	%Vol	,	.25	,	.25	,	25</td
MBT	lb/bbl		<.25		<.25		<2.5
рН	-0,000	9.1	9.7	9.1	9.7	8.9	9.7
Alkal Mud (Pm)			0.8		0.8		
Pf/Mf		/	0.1/0.5	/	0.1/0.5	/	/
Chlorides	mg/l	146000	148000	146000	148000	158000	148000
Hardness Ca			120		120		
KCl	% wt		6.5		6.5		6.5
Sulphite Excess	ppm						
Idcap	ppb						
LSRV	0.3rpm		36423		36423		
	•						
Daily Mud Cost	\$	55031.42		5006.48		11673.64	
Cuml Mud Cost	\$	240295.41		245301.89		256975.53	
Sales Engineer		Kelvin /Gordon	Kelvin /Gordon	Gordon Howie	Gordon Howie	Gordon Howie	Gordon Howie
Products Used		Salt F / 1		OS-1 / 2		Duovis / 1	
		DirtM / 8		BulkBar / 2		K/NaCl / 677	
		S-Cide / 4		K/NaCl / 260		Salt F / 4	
		S-COR / 13		Salt F / 3		S-Vis E / 5	
		S-Vis E / 10		S-Cide / 1			
		S-SURF / 1					
		CaCl2Br / 1227					
		CaClBB / 13					
REMARKS							

REMARKS	
20/06/2005:	

29/	06/	20	05:	

30/06/2005:

1/07/2005:



Operator: Santos Ltd Field/Area: VIC P-44

Well Name: Casino 5

Contractor: Diamond Offshore

Description: Gas Devlopment

Location: Otway Basin

	Biamona Onone			 oution: othay.	20.0	
Date		2/07/2005	2/07/2005			
Depth/TVD	m	/	1806/1802			
Activity		Production tubing	Production tubing			
Mud Type		CaCl2 Brine	CaCl2 Brine			
Hole Size	in	8.5	8.5			
Circ Volume	bbl	1564	1564			
Flow Rate	gal/min	0	0			
Circ Pressure	psi	0	0			
Avg ROP	m/hr	0	0			
Sample From	111/111	NaCl Pit 5	FloPro			
Flow Line Temp	°C	Traci i it 3	1 101 10			
Mud Weight	sp.gr.	1.2@28 °C	1.24@30 °C			
Funnel Viscosity	sp.gr. s/qt	1.2(<i>u</i>)26 C	50			
PV	cP		14			
YP	lb/100ft ²		30			
D (00/D200/D200	10/100112	1.1	50/44/20			
R600/R300/R200		//	58/44/38			
R100/R6/R3	11. /1.00.02	//	30/12/10			
10s/10m/30m Gel	lb/100ft ²	//	-1/12/15			
API Fluid Loss	cc/30 min		5			
HTHP Fluid Loss	cc/30 min		4 .			
Cake API/HT	1/32"	/	1/			
Solids	%Vol		14			
Oil/Water	%Vol	/	/86			
Sand	%Vol		<.25			
MBT	lb/bbl		<2.5			
pH		8.9	9.7			
Alkal Mud (Pm)						
Pf/Mf		/	/			
Chlorides	mg/l	158000	148000			
Hardness Ca						
KCl	% wt		6.5			
Sulphite Excess	ppm					
Idcap	ppb					
LSRV	0.3rpm					
EST (0.51piii					
Daily Mud Cost	\$	0.00				
Cuml Mud Cost	\$	256975.53				
Sales Engineer	Ψ	Gordon Howie	Gordon Howie			
Products Used		Gordon Howie	Gordon Howie			
1 Toducts Used						
DEMARKO			ı		T	1

REMARKS

2/07/2005:



PRODUCT CONSUMPTION



Product Consumption

Operator :Santos LtdContractor:Diamond OffshoreWell Name :Casino 5M-I Engineer:J. Singh / G.HowieLocation :Otway BasinRig Name:Ocean PatriotField/Area:VIC P-44Stock Point:Portland

Caustic Soda		DATES											
CALCHIM CHLORIDE Seks	Product	Product	Jun 15, 2005	Jun 16, 2005	Jun 17, 2005	Jun 18, 2005	Jun 19, 2005	Page					
CAUSTIC SODA 20.46 CAUSTIC SODA 20.46 COURT CACED 36.79 0.00	Name	Price	Qty Cost	Qty Cost	Qty Cost	Qty Cost	Qty Cost	Totals					
CITRIC ACID 56.79 0.00	CALCIUM CHLORIDE Sacks	0.00	0.00	0.00	18 0.00			0.00					
DEFOAM A 73.39 0.00 6 440.34 0.00 0.00 773.39 513.7			0.00	61.38			2 40.92	286.44					
DIO-YIS								0.00					
GLUTE 25				+				513.73					
GÜAR GIM KWIK SEAL FINE S200 0.00 0.00 0.00 0.00 0.00 0.00 0.00					+								
KWIKS EAL FINE						+	+						
LIME 7.44 0.00 0.00 0.00 0.00 0.00 0.00 0.00							1 L `` `						
OS-1					1 +		++						
PIPELAXW 379.80 0.00 0.00 0.00 0.00 0.00 0.00 0.00													
POLYPAC UL 96.30					+								
SODIA ASH SODILM BICARBONATE 10.64 0.00 0.00 0.00 0.00 0.00 0.00 0.00		· - - +						$\frac{0.00}{0.00}$					
SODIUM BICARBONATE 10-64 0.00								0.00					
KWIKSEAL MEDIUM 28.00 0.00	SODIUM BICARBONATE	10.64	0.00	0.00	0.00	0.00	0.00	0.00					
IDCAP D		28.00	0.00	0.00	0.00	0.00	0.00	0.00					
MIX II FINE								0.00					
MIX II MEDIUM								0.00					
PÖTASSIUM HYDROXIDE 31 28 0.00<								0.00					
OMYACARB 20 8.27 0.00													
KCIBB													
MI BAR (Bulk)													
MI Gel (Bulk)													
BRINE KC116% 13.00 0.00				+									
DUAL-FLO HT 103 08 0.00				+				0.00					
OMYA CARB 8 BRINE NaCI 18%+KCI 5% 11,70 0.00													
BRINE NaCI 1896+KCI 55%								0.00					
DIRT MAGNET		14.00	0.00	0.00	0.00	0.00	0.00	0.00					
SAFE-CIDE 91.77 0.00			0.00	0.00	0.00			0.00					
SAFE-COR 316.31 0.00 0								0.00					
SAFE-VIS E 195.00 0.00				+				0.00					
SAFE-SURF WN 898.50 0.00				+			+ +	0.00					
BRINE CALCIUM CHLORIDE 27.00 0.													
CALCIUM CHLORIDE (BB) 210.00 0.00 1 210.00 0.00 0.00 210.00 Cumulative Engineering 0.00 0.0													
Cumulative Engineering 0.00 0.0													
Daily Product 0.00 5742.52 1570.62 10435.90 2747.93 20496.99 Daily Sales Tax 0 0 0 0 0 0 0 0 Cumulative Product 0.00 5742.52 7313.14 17749.04 20496.97 20496.99	CALCIOM CHLOKIDE (BB)		0.00	210.00									
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Daily Product 0.00 5742.52 1570.62 10435.90 2747.93 20496.99 Daily Sales Tax 0 0 0 0 0 0 0 0 Cumulative Product 0.00 5742.52 7313.14 17749.04 20496.97 20496.99				t		 							
Daily Sales Tax 0 0 0 0 0 0 0.00 Cumulative Product 0.00 5742.52 7313.14 17749.04 20496.97 20496.97			0.00	0.00	0.00	0.00	0.00	0.00					
Daily Sales Tax 0 0 0 0 0 0 0.00 Cumulative Product 0.00 5742.52 7313.14 17749.04 20496.97 20496.97	Daily Product		0.00	5742.52	1570.62	10435.90	2747.93	20496.97					
Cumulative Product 0.00 5742.52 7313.14 17749.04 20496.97 20496.97			0	0	0	0	0	0.00					
						-	-						
C_{1} C_{2} C_{3} C_{3	Cumulative Cost		0.00	5742.52	7313.14		20496.97	20496.97					



Product Consumption

Operator :Santos LtdContractor:Diamond OffshoreWell Name :Casino 5M-l Engineer:J. Singh / G.HowieLocation :Otway BasinRig Name:Ocean PatriotField/Area:VIC P-44Stock Point:Portland

	DATES											
Product	Previous	Jun	20, 2005	Jun	21, 2005	Jun 2	Jun 22, 2005		Jun 23, 2005		24, 2005	Page
Name	Page	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Totals
CALCIUM CHLORIDE Sacks	0.00		0.00		0.00		0.00		0.00		0.00	0.00
CAUSTIC SODA	286.44		0.00		0.00	2		4	81.84		0.00	409.20
CITRIC ACID	0.00		0.00		0.00		0.00		0.00		0.00	0.00
DEFOAM A	513.73		0.00		0.00		0.00	4	293.56		0.00	807.29
DUO-VIS	0.00		0.00		0.00		0.00	80		12		20884.00
GLUTE 25 GUAR GUM	0.00		0.00		0.00		0.00	8	749.44 0.00		0.00	749.44 0.00
KWIK SEAL FINE	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
OS-1	0.00		0.00		0.00		0.00	20	670.80		0.00	670.80
PIPE-LAX W	0.00		0.00		0.00		0.00	20	0.00		0.00	0.00
POLYPAC UL	0.00		0.00		0.00		0.00	90	8667.00		0.00	8667.00
SODA ASH	0.00		0.00		0.00		0.00	22	286.88		0.00	286.88
SODIUM BICARBONATE	0.00		0.00		0.00		0.00		0.00		0.00	0.00
KWIKSEAL MEDIUM	0.00		0.00		0.00		0.00		0.00		0.00	0.00
FLO-VIS PLUS	0.00		0.00		0.00		0.00		0.00		0.00	0.00
IDCAP D	0.00		0.00		0.00		0.00	91	,,,,,,,,		0.00	21906.43
MIX II FINE	0.00		0.00		0.00		0.00		0.00		0.00	0.00
MIX II MEDIUM	0.00		0.00		0.00		0.00		0.00	- 10	0.00	0.00
POTASSIUM HYDROXIDE	0.00		0.00		0.00		0.00	13	406.64	10		719.44
OMYACARB 20 KCl BB	0.00		0.00		0.00		0.00		0.00		0.00	0.00
MI BAR (Bulk)	0.00		0.00		0.00		0.00	58		6	0.00 1387.20	0.00 14893.90
MI Gel (Bulk)	19486.8		0.00		0.00	C		17	4293.79	0	0.00	26044.45
BRINE KCl 16%	0.00		0.00		0.00		0.00	2000			0.00	26000.00
DUAL-FLO HT	0.00		0.00		0.00		0.00	2000	0.00		0.00	0.00
OMYA CARB 8	0.00		0.00		0.00		0.00		0.00		0.00	0.00
BRINE NaCl 18%+KCl 5%	0.00		0.00		0.00		0.00		0.00	520		7280.00
SALT - FINE	0.00		0.00		0.00		0.00		0.00		0.00	0.00
DIRT MAGNET	0.00		0.00		0.00		0.00		0.00		0.00	0.00
SAFE-CIDE	0.00		0.00		0.00		0.00		0.00		0.00	0.00
SAFE-COR	0.00		0.00		0.00		0.00		0.00		0.00	0.00
SAFE-VIS E	0.00		0.00		0.00		0.00		0.00		0.00	0.00
SAFE-SURF WN	0.00		0.00		0.00		0.00		0.00		0.00	0.00
BRINE CALCIUM CHLORIDE	0.00		0.00		0.00		0.00		0.00		0.00	0.00
CALCIUM CHLORIDE (BB)	210.00		0.00		0.00		0.00		0.00		0.00	210.00
Cumulative Engineering			0.00		0.00		0.00		0.00		0.00	0.00
Daily Product			0.00		0.00		2304.78	Ģ	95023.08		11704.00	129528.83
Daily Sales Tax			0		0		0		0		0	0.00
Cumulative Product		,	20496.97	,	20496.97		22801.75	1 1	17824.83	1	29528.83	129528.83
Cumulative Cost			20496.97		20496.97		22801.75	1	17824.83]	29528.83	129528.83



Product Consumption

Operator :Santos LtdContractor:Diamond OffshoreWell Name :Casino 5M-I Engineer:J. Singh / G.HowieLocation :Otway BasinRig Name:Ocean PatriotField/Area:VIC P-44Stock Point:Portland

	DATES												
Product	Previous Jun 25, 2005		Jun 2	26, 2005	Jun 2	27, 2005	Jun 2	28, 2005	Jun 2	29, 2005	Page		
Name	Page	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Totals	
CALCIUM CHLORIDE Sacks	0.00		0.00		0.00		0.00		0.00		0.00	0.00	
CAUSTIC SODA	409.20		0.00		0.00		0.00		0.00		0.00	409.20	
CITRIC ACID	0.00		0.00		0.00		0.00		0.00		0.00	0.00	
DEFOAM A	807.29		0.00	1	73.39		0.00		0.00		0.00	880.68	
DUO-VIS	20884.0	1	227.00	8			0.00		0.00		0.00	22927.00	
GLUTE 25 GUAR GUM	749.44		0.00		0.00		0.00	5			0.00	1217.84	
KWIK SEAL FINE	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	
OS-1	670.80	6	201.24		0.00		0.00		0.00		0.00	872.04	
PIPE-LAX W	0.00	U	0.00		0.00		0.00		0.00		0.00	0.00	
POLYPAC UL	8667.00	11	1059.30	6			0.00		0.00		0.00	10304.10	
SODA ASH	286.88		0.00		0.00		0.00		0.00		0.00	286.88	
SODIUM BICARBONATE	0.00		0.00		0.00		0.00		0.00		0.00	0.00	
KWIKSEAL MEDIUM	0.00		0.00		0.00		0.00		0.00		0.00	0.00	
FLO-VIS PLUS	0.00		0.00		0.00		0.00	36	14672.88		0.00	14672.88	
IDCAP D	21906.4	11	2648.03	12	2888.76		0.00		0.00		0.00	27443.22	
MIX II FINE	0.00		0.00		0.00		0.00		0.00		0.00	0.00	
MIX II MEDIUM	0.00		0.00		0.00		0.00		0.00		0.00	0.00	
POTASSIUM HYDROXIDE	719.44	6	187.68		0.00		0.00	6			0.00	1094.80	
OMYACARB 20	0.00		0.00		0.00		0.00	1104	9130.08		0.00	9130.08	
KCI BB	0.00	-	0.00	12	0.00		0.00		0.00		0.00	0.00	
MI BAR (Bulk) MI Gel (Bulk)	14893.9 26044.4	1	1618.40	13	3005.60		0.00		0.00		0.00	19517.90 26044.45	
BRINE KCl 16%	26000.0		0.00		0.00		0.00		0.00		0.00	26000.00	
DUAL-FLO HT	0.00		0.00		0.00		0.00	74	7627.92		0.00	7627.92	
OMYA CARB 8	0.00		0.00		0.00		0.00	/ -	0.00		0.00	0.00	
BRINE NaCl 18%+KCl 5%	7280.00		0.00		0.00		0.00	618	8652.00		0.00	15932.00	
SALT - FINE	0.00		0.00		0.00		0.00	2	496.82	1	248.41	745.23	
DIRT MAGNET	0.00		0.00		0.00		0.00		0.00	8	11596.40	11596.40	
SAFE-CIDE	0.00		0.00		0.00		0.00		0.00	4	367.08	367.08	
SAFE-COR	0.00		0.00		0.00		0.00		0.00	13		4112.03	
SAFE-VIS E	0.00		0.00		0.00		0.00		0.00	10		1950.00	
SAFE-SURF WN	0.00		0.00		0.00		0.00		0.00	1 227	898.50	898.50	
BRINE CALCIUM CHLORIDE	0.00		0.00		0.00		0.00		0.00	1227		33129.00	
CALCIUM CHLORIDE (BB)	210.00		0.00		0.00		0.00		0.00	13	2730.00	2940.00	
	+												
Cumulativa Engineering			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			5941.65		8361.55		0.00	4	11235.78		55031.42	240099.23	
Daily Sales Tax			0		0		0		0		0	0.00	
Cumulative Product		13	35470.48	14	3832.03	14	43832.03	18	35067.81	2	240099.23	240099.23	
Cumulative Cost			35470.48		3832.03		43832.03		35067.81		240099.23	240099.23	



Product Consumption

Operator :Santos LtdContractor:Diamond OffshoreWell Name :Casino 5M-l Engineer:J. Singh / G. HowieLocation :Otway BasinRig Name:Ocean PatriotField/Area:VIC P-44Stock Point:Portland

		DATES										
Product	Previous	Jun	30, 2005		1, 2005	Jul 2	2, 2005					Page
Name	Page	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Totals
CALCIUM CHLORIDE Sacks	0.00		0.00		0.00		0.00)				0.00
CAUSTIC SODA	409.20		0.00		0.00		0.00					409.20
CITRIC ACID	0.00		0.00		0.00		0.00					0.00
DEFOAM A	880.68		0.00		0.00		0.00					880.68
DUO-VIS	22927.0		0.00	1	227.00		0.00					23154.00
GLUTE 25 GUAR GUM	1217.84		0.00		0.00		0.00					1217.84
KWIK SEAL FINE	0.00		0.00		0.00		0.00					0.00
LIME	0.00		0.00		0.00		0.00					0.00
OS-1	872.04	2			0.00		0.00					939.12
PIPE-LAX W	0.00		0.00		0.00		0.00					0.00
POLYPAC UL	10304.1		0.00		0.00		0.00					10304.10
SODA ASH	286.88		0.00		0.00		0.00)				286.88
SODIUM BICARBONATE	0.00		0.00		0.00		0.00)				0.00
KWIKSEAL MEDIUM	0.00		0.00		0.00		0.00)				0.00
FLO-VIS PLUS	14672.8		0.00		0.00		0.00					14672.88
IDCAP D	27443.2		0.00		0.00		0.00					27443.22
MIX II FINE	0.00		0.00		0.00		0.00					0.00
MIX II MEDIUM	0.00		0.00		0.00		0.00					0.00
POTASSIUM HYDROXIDE	1094.80		0.00		0.00		0.00					1094.80
OMYACARB 20	9130.08		0.00		0.00		0.00					9130.08
KCl BB MI BAR (Bulk)	0.00 19517.9	2	0.00 462.40		0.00		0.00					0.00 19980.30
MI Gel (Bulk)	26044.4		0.00		0.00		0.00					26044.45
BRINE KCl 16%	26000.0		0.00		0.00		0.00					26000.00
DUAL-FLO HT	7627.92		0.00		0.00		0.00					7627.92
OMYA CARB 8	0.00		0.00		0.00		0.00					0.00
BRINE NaCl 18%+KCl 5%	15932.0	260		677			0.00					29050.00
SALT - FINE	745.23	3	745.23	4	993.64		0.00)				2484.10
DIRT MAGNET	11596.4		0.00		0.00		0.00)				11596.40
SAFE-CIDE	367.08	1	91.77		0.00		0.00					458.85
SAFE-COR	4112.03		0.00		0.00		0.00					4112.03
SAFE-VIS E	1950.00		0.00	5			0.00					2925.00
SAFE-SURF WN	898.50		0.00		0.00		0.00					898.50
BRINE CALCIUM CHLORIDE	33129.0		0.00		0.00		0.00					33129.00
CALCIUM CHLORIDE (BB)	2940.00		0.00		0.00		0.00)				2940.00
Cumulative Engineering			0.00		0.00		0.00					0.00
Daily Product			5006.48	1	1673.64		0.00					256779.35
-				1								
Daily Sales Tax			0		0		0					0.00
Cumulative Product		24	45105.71	25	6779.35	2:	56779.35					256779.35
Cumulative Cost		2	45105.71	<u>2</u> 5	6779.35	2:	56779.35					256779.35



DRILLING FLUIDS RECAP FOR SANTOS LTD CASINO 5

DAILY MUD REPORTS



 Date
 16/06/2005
 Depth/TVD
 133 m / 133 m

 Spud Date
 16/06/2005
 Mud Type
 Spud Mud

 Water Depth
 69
 Activity
 Drilling

Operator: Santos Ltd
Report For: Chris Wise/Pat King
Well Name: Casino 5
Contractor: Diamond Offshore

Field/Area: VIC P-44
Description: Gas Devlopment
Location: Otway Basin
M-I Well No.:

Report For: Ray Breaud/Troy Williams

DRILLING AS	SEMBLY	CASING	MUD VOLUME (bbl)	CIRCULATION DATA			
Bit Size 36 in Smith		Surface	Hole	Pump Make OILWELL 1	700PT NATIONAL 12P-160		
Nozzles 3x24 / 1/32	"	30in @133m (133TVD)	170.1	Pump Size 6 X 12	in 6.5 X 12.in		
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap 4.274 g	al/stk 5.016 gal/stk		
5 in	13 m		1	Pump stk/min 75@97	75@97%		
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	1073 gal/min		
8 in	90 m		170	Bottoms Up	6.5 min 1465 stk		
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time	6.7 min 1497 stk		
9.5 in	30 m		687	Circulating Pressure	1100 psi		

9.5 in	30 m		687	Circulating Press	ure	1100 psi	
	MUD PROPE	RTIES		PRODUCTS	USED	LAST 24 HRS	S
Sample From		Pit 3@21:15		Products		Size	Amt
Flow Line Temp	°C			CALCIUM CHLORIDE	Sacks	25 KG BG	17
Depth/TVD	m	112/112		CAUSTIC SODA		25 KG DM	3
Mud Weight	sp.gr.	1.04@13°C		DEFOAM A		5 GA CN	6
Funnel Viscosity	s/qt	> 200		MI Gel (Bulk)		1 MT BG	20
Rheology Temp	°Ĉ	49		CALCIUM CHLORIDE	E(BB)	500 KG BG	1
R600/R300		72/61					
R200/R100		58/53					
R6/R3		49/49					
PV	cP	11					
YP	lb/100ft ²	50					
10s/10m/30m Gel	1b/100ft ²	53/54/					
API Fluid Loss	cc/30 min	13					
HTHP FL Temp	cc/30 min						
Cake API/HTHP	1/32"	1/					
Solids	%Vol	2					
Oil/Water	%Vol	/98					
Sand	%Vol			SOLIDS EQUIP		Size	Hr
MBT	lb/bbl	28		VSM Shaker 1		120,2x105	0
pH		9.5		VSM Shaker 2		120,2x110	0
Alkal Mud (Pm)		0.55		VSM Shaker 3		5,140,2x84	0
Pf/Mf		0.35/0.6		VSM Shaker 4	2x	165,2x84	0
Chlorides	mg/l	1050		Centrifuge			0
Hardness Ca	mg/l	40		D-Silter			0
KC1	% wt						
Sulphite Excess	ppm						
Idcap	ppb						
LSRV	0.3rpm			MUD DDODE	TV CD	FOIFIC A TIO	10
				MUD PROPEI	KIT SP	1.04	V 5
				Weight Viscosity		$\frac{1.04}{>100 \text{ s/qt}}$	
				Filtrate			
				Tilliate		11/ a	

REMARKS AND TREATMENT

Mixed 1680 bbls of 26 ppb PHG. Used Defoamer to overcome severe foaming problems. Flushed pits 3 times with sea water. Used extra pumps to get enough prime on mix pumps. Mixed 185 bbl of CaCl2 cement mix.

REMARKS

Run anchors. Spud Casino 5 @ 19:00 Hrs. Drilled to 133m. Used 800 bbl as sweeps and 375 bbl to fill hole at section TD.

TIME DISTR L	ast 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS	(%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service	19	Oil Added	0	NaCl	./ .6	np/na Values	0.239/0.022
Drilling	5	Water Added	1816	KCl	./ .	kp/ka (lb•s^n/100ft²)	14.644/50.409
Tripping		Mud Received	0	Low Gravity	2.4/ 22.	Bit Loss (psi / %)	524 / 47.6
Non-Productive Tim	1	Dumped	0	Bentonite	3.2/ 28.7	Bit HHP (hhp/HSI)	328 / .3
		Shakers	0	Drill Solids	7/ -6.7	Bit Jet Vel (m/s)	79
		Evaporation	0	Weight Material	NA/ NA	Ann. Vel DP (m/s)	
		Centrifuge	0	Chemical Conc	- / .	Ann. Vel DC (m/s)	.11
		Formation	0	Inert/React	2127	Crit Vel DP (m/s)	
		Left in Hole	0	Average SG	2.6	Crit Vel DC (m/s)	3
		Sweeps	1178	Carb/BiCarb (m mole/L)	7./ 11.	ECD @ 133 (sp.gr.)	1.05
MIEN	ICD / DUO	ie.	DIC DUONE	WAREHOUSE	DHONE	DAILY COST CUMUI	ATIVE COST

M-I ENGR / PHONE RIG PHONE WAREHOUSE PHONE DAILY COST CUMULATIVE COST

Jasdeep Singh
Glen Sharpe 08-9302 3790 \$ 5,742.52 \$ 5,742.52



 Date
 17/06/2005
 Depth/TVD
 133 m / 133 m

 Spud Date
 16/06/2005
 Mud Type
 Spud Mud

 Water Depth
 69
 Activity
 WOC

Operator: Santos Ltd
Report For: Chris Wise/Pat King
Well Name: Casino 5
Contractor: Diamond Offshore

Field/Area: VIC P-44
Description: Gas Devlopment
Location: Otway Basin
M-I Well No.:

Report For: Ray Breaud/Troy Williams

DRILLING AS	SEMBLY	CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size 17.5 in		Surface	Hole	Pump Make OILWELL	1700PT NATIONAL 12P-160	
Nozzles 1/32"		30in @133m (133TVD)	107.4	Pump Size 6 X 12	2.in 6.5 X 12.in	
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap 4.274 g	gal/stk 5.016 gal/stk	
in	m	13.625in @655m (655TVD)	4	Pump stk/min 75@9	7% 75@97%	
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	1073 gal/min	
in	m		4	Bottoms Up	min 0 stk	
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time	min -4 stk	
in	m		1349	Circulating Pressure	1100 psi	

in	m		1349	Circulating Press	ure	1100 psi	
	MUD PROPE	RTIES		PRODUCTS	USED	LAST 24 HR	3
Sample From		Pit 3@20:00		Products		Size	Amt
Flow Line Temp	°C	Ŭ.		CALCIUM CHLORIDE	Sacks	25 KG BG	18
Depth/TVD	m	133/133		CAUSTIC SODA		25 KG DM	3
Mud Weight	sp.gr.	1.04@15°C		MI Gel (Bulk)		1 MT BG	6
Funnel Viscosity	s/qt	>200					
Rheology Temp	°Ĉ	49					
R600/R300		70/60					
R200/R100		56/51					
R6/R3		48/47					
PV	cP	10					
YP	lb/100ft ²	50					
10s/10m/30m Gel	lb/100ft ²	51/53/					
API Fluid Loss	cc/30 min	14					
HTHP FL Temp	cc/30 min						
Cake API/HTHP	1/32"	1/					
Solids	%Vol	2					
Oil/Water	%Vol	/98					
Sand	%Vol			SOLIDS EQUIP		Size	Hr
MBT	lb/bbl	28		VSM Shaker 1		120,2x105	0
pH		9.5		VSM Shaker 2		120,2x110	0
Alkal Mud (Pm)		0.5		VSM Shaker 3		5,140,2x84	0
Pf/Mf		0.35/0.6		VSM Shaker 4	2x	165,2x84	0
Chlorides	mg/l	1000		Centrifuge			0
Hardness Ca	mg/l	40		D-Silter			0
KCl	% wt						
Sulphite Excess	ppm						
Idcap	ppb						
LSRV	0.3rpm						
				MUD PROPER	RTY SP		NS
				Weight		1.04	
				Viscosity		>100 s/qt	
				Filtrate		n/a	

REMARKS AND TREATMENT

Mixed 75 bbl of CaCl2 cement mix water for top up job. Took DW & Gel on board. Mixing more Gel volumes in surface pits.

REMARKS

Run casing and cemented as per plan. Performed top up job. WOC. Lay down 36" BHA.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS	(%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS	
Rig Up/Service	3	Oil Added	0	NaCl	./ .6	np/na Values	
Drilling		Water Added	907	KCl	./ .	kp/ka ($lb \cdot s^n/100ft^2$)	
Tripping	5	Mud Received	0	Low Gravity	3.1/28.3	Bit Loss (psi / %)	
Non-Productive Ti	m	Dumped	260	Bentonite	3.1/ 28.	Bit HHP (hhp/HSI)	
Running Casing	11.5	Shakers	0	Drill Solids	./ .3	Bit Jet Vel (m/s)	
Cementing	4	Evaporation	0	Weight Material	NA/ NA	Ann. Vel DP (m/s)	
Condition Hole	0.5	Centrifuge	0	Chemical Conc	- / .	Ann. Vel DC (m/s)	
		Formation	0	Inert/React	.0095	Crit Vel DP (m/s)	
		Left in Hole	0	Average SG	2.25	Crit Vel DC (m/s)	
		Sweeps	0	Carb/BiCarb (m mole/L)	7./ 11.		

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Jasdeep Singh				
Kelvin Leong 08-9302 3790			\$ 1,570.62	\$ 7,313.14



 Date
 18/06/2005
 Depth/TVD
 665 m / 665 m

 Spud Date
 16/06/2005
 Mud Type
 Spud Mud

 Water Depth
 69
 Activity
 Tripping

Operator: Santos Ltd
Report For: Chris Wise/Pat King
Well Name: Casino 5
Contractor: Diamond Offshore

Field/Area: VIC P-44
Description: Gas Devlopment
Location: Otway Basin
M-I Well No.:

Report For: Ray Breaud/Troy Williams

DRILLING AS	SEMBLY	CASING	MUD VOLUME (bbl)	CIRCULATION DATA			
Bit Size 17.5 in Smith	l	Surface	Hole	Pump Make OILWELL	1700PT NATIONAL 12P-16(
Nozzles 3x22 / 1/32"	1	30in @133m (133TVD)	626.7	Pump Size 6.5 X 1	2.in 6.5 X 12.in		
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap 5.016 g	gal/stk 5.016 gal/stk		
5 in	m	13.625in @655m (655TVD)	.3	Pump stk/min 80@9	7% 80@97%		
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	1204 gal/min		
5 in	139 m		.3	Bottoms Up	min 0 stk		
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time	min 2 stk		
9.5 in	38 m		650	Circulating Pressure	2800 psi		

9.5 in	38 m		650	Circulating Pressu		
	MUD PROPE	RTIES		PRODUCTS (JSED LAST 24 HRS	3
Sample From		Pit 3@16:30		Products	Size	Amt
Flow Line Temp	°C	_		CAUSTIC SODA	25 KG DM	6
Depth/TVD	m	504/504		MI Gel (Bulk)	1 MT BG	41
Mud Weight	sp.gr.	1.04@15°C				
Funnel Viscosity	s/qt	>100				
Rheology Temp	°Č	15				
R600/R300		65/48				
R200/R100		43/35				
R6/R3		28/28				
PV	cР	17				
YP	lb/100ft ²	31				
10s/10m/30m Gel	lb/100ft ²	38/54/54				
API Fluid Loss	cc/30 min	13				
HTHP FL Temp	cc/30 min					
Cake API/HTHP	1/32"	1/				
Solids	%Vol	2				
Oil/Water	%Vol	/98				
Sand	%Vol			SOLIDS EQUIP	Size	Hr
MBT	lb/bbl	27		VSM Shaker 1	2x120,2x105	0
pH		10		VSM Shaker 2	2x120,2x110	0
Alkal Mud (Pm)		0.65		VSM Shaker 3	165,140,2x84	0
Pf/Mf		0.4/0.7		VSM Shaker 4	2x165,2x84	0
Chlorides	mg/l	850		Centrifuge		0
Hardness Ca	mg/l	40		D-Silter		0
KC1	% wt					
Sulphite Excess	ppm					
Idcap	ppb					
LSRV	0.3rpm					
					TY SPECIFICATION	NS
				Weight	1.04	
				Viscosity	>100 s/qt	
				Filtrate	n/a	
ii		l l				

REMARKS AND TREATMENT

Mixed PHG to fill all available surface pit volume. Continued mixing PHG to replace volume used in sweep/spot programme. Total Gel volume used=3150 bbl.

REMARKS

Made up 17.5" BHA. RIH to tag cement at 128 m. Drilled ahead with 50 bbl PGH sweep midstand and 75 bbl PHG spot on connections to 665 M. Swept the hole clean with 200 bbl PHG at TD and displaced hole with 800 bbl PHG. POOH.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS	(%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS
Rig Up/Service	0.5	Oil Added	0	NaCl	./ .5	np/na Values
Drilling	17	Water Added	2351	KCl	./ .	kp/ka (lb•s^n/100ft²)
Tripping	5.5	Mud Received	0	Low Gravity	3./ 27.3	Bit Loss (psi / %)
Non-Productive Ti	m	Dumped	0	Bentonite	3./ 27.	Bit HHP (hhp/HSI)
Running Casing		Shakers	0	Drill Solids	./ .3	Bit Jet Vel (m/s)
Cementing		Evaporation	0	Weight Material	NA/ NA	Ann. Vel DP (m/s)
Condition Hole	1	Centrifuge	0	Chemical Conc	- / .	Ann. Vel DC (m/s)
		Formation	0	Inert/React	.0109	Crit Vel DP (m/s)
		Left in Hole	0	Average SG	2.3	Crit Vel DC (m/s)
		Sweeps	3150	Carb/BiCarb (m mole/L)	7.9/ 4.	

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Jasdeep Singh				
Kelvin Leong 08-9302 3790			\$ 10,435.90	\$ 17,749.04



 Date
 19/06/2005
 Depth/TVD
 665 m / 665 m

 Spud Date
 16/06/2005
 Mud Type
 Spud Mud

 Water Depth
 69
 Activity
 WOC

Operator: Santos Ltd
Report For: Chris Wise/Pat King
Well Name: Casino 5
Contractor: Diamond Offshore

Field/Area: VIC P-44
Description: Gas Devlopment
Location: Otway Basin
M-I Well No.:

Report For: Ray Breaud/Troy Williams

DRILLING AS	SEMBLY	CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size 17.5 in Smith	l	Surface	Hole	Pump Make OILWELL	1700PT NATIONAL 12P-160	
Nozzles 3x22 / 1/32"	1	30in @133m (133TVD)	575.3(Tot)/564.5(Bit)	Pump Size 6.5 X	12.in 6.5 X 12.in	
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap 5.016	gal/stk 5.016 gal/stk	
5 in	90 m	13.625in @655m (655TVD)	3	Pump stk/min 80@9	07% 80@97%	
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	1204 gal/min	
13.625 in	564 m		564.3	Bottoms Up	9.8 min 2363 stk	
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time	19.7 min 4724 stk	
in	m		520	Circulating Pressure	2800 psi	

111	111		320	Circulating Flesst	116	2800 psi	
	MUD PROPE	RTIES		PRODUCTS	USED	LAST 24 HR	3
Sample From		Pit 2@19:00		Products		Size	Amt
Flow Line Temp	°C			CAUSTIC SODA		25 KG DM	2
Depth/TVD	m	665/665		DEFOAM A		5 GA CN	1
Mud Weight	sp.gr.	1.04@15°C		MI Gel (Bulk)		1 MT BG	10
Funnel Viscosity	s/qt	> 100					
Rheology Temp	°Ĉ	15					
R600/R300		72/60					
R200/R100		58/54					
R6/R3		48/48					
PV	cP	12					
YP	lb/100ft ²	48					
10s/10m/30m Gel	lb/100ft ²	36/55/55					
API Fluid Loss	cc/30 min	13					
HTHP FL Temp	cc/30 min						
Cake API/HTHP	1/32"	1/					
Solids	%Vol	2					
Oil/Water	%Vol	/98					
Sand	%Vol			SOLIDS EQUIP		Size	Hr
MBT	lb/bbl	28		VSM Shaker 1		120,2x105	0
pН		10		VSM Shaker 2		120,2x110	0
Alkal Mud (Pm)		0.6		VSM Shaker 3		5,140,2x84	0
Pf/Mf		0.4/0.7		VSM Shaker 4	2x	:165,2x84	0
Chlorides	mg/l	850		Centrifuge			0
Hardness Ca	mg/l	40		D-Silter			0
KCl	% wt						
Sulphite Excess	ppm						
Idcap	ppb						
LSRV	0.3rpm						
				MUD PROPER	TY SP		NS
				Weight		1.04	
				Viscosity		>100 s/qt	
				Filtrate		n/a	

REMARKS AND TREATMENT

08-9302 3790

Filled Pits 1 and 2 before dumping residual PHG mud and rinsing Pits 3, 4 and 5. Later mixed 870 bbl PHG to provide volume for the trip/sweep. Received 1000 bbl of 16% KCl brine from FarGrip. Backloaded 4 drums of Pipelax W.

Jasdeep Singh

Kelvin Leong

REMARKS

\$ 2,747.93

\$ 20,496.97

Completed P/O to shoe with tight spots from 450-300 m. Run back in. 3m fill. Circulated hole and displaced with PHG. POOH. Ran 13-3/8" casing. Cemented as per plan. WOC

TIME DISTR L	ast 24 Hrs	MUD VOL ACCTG	(bbl)	SOL	IDS ANALYSIS	(%/lb/bbl)	MUD RHEOL	OGY & HY	DRAULICS
Rig Up/Service	3	Oil Added	0	NaCl		./ .5	np/na Values		0.263/0.034
Drilling		Water Added	845	KCl		./ .	kp/ka (lb•s^n/100f	t ²)	12.414/48.485
Tripping	7.5	Mud Received	0	Low Gr	avity	3.1/28.1	Bit Loss (psi / %)	•	934 / 33.4
Non-Productive Tim		Dumped	391	Bentoni	te	3.1/28.	Bit HHP (hhp/HS	SI)	656 / 2.7
Running Casing	9.5	Shakers	0	Drill So	lids	./ .1	Bit Jet Vel (m/s)	•	106
Cementing	3	Evaporation	0	Weight	Material	NA/ NA	Ann. Vel DP (m/s)		
Condition Hole	1	Centrifuge	0	Chemic	al Conc	- / .	Ann. Vel DC (m/s)		1.24
		Formation	0	Inert/Re	eact	.0018	Crit Vel DP (m/s)		
		Left in Hole	0	Average	e SG	2.27	Crit Vel DC (m/s)		3
		Sweeps	610	Carb/Bi	Carb (m mole/L)	7.9/ 4.	ECD @ 654 (sp.gr	.)	1.15
M-I EN	GR / PHOI	NE	RIG PHONE		WAREHOUSE	PHONE	DAILY COST	CUMUL	ATIVE COST



 Date
 20/06/2005
 Depth/TVD
 655 m / 655 m

 Spud Date
 16/06/2005
 Mud Type
 Spud Mud

 Water Depth
 69
 Activity
 Run BOP

Operator: Santos Ltd
Report For: Chris Wise/Pat King
Well Name: Casino 5
Contractor: Diamond Offshore

Field/Area: VIC P-44
Description: Gas Devlopment
Location: Otway Basin
M-I Well No.:

Report For: Ray Breaud/Troy Williams

DRILLING AS	SSEMBLY	CASING	MUD VOLUME (bbl)	C	IRCULATION D	ATA
Bit Size 12.25 in Smith GS04BDV		Surface	Hole	Pump Make	OILWELL 1700PT	NATIONAL 12P-160
Nozzles 3x20/18/	1/32"	30in @133m (133TVD)	389.4	Pump Size	6.5 X 12.in	6.5 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	gal/stk	gal/stk
5 in	m	13.625in @655m (655TVD)	84.6	Pump stk/min		
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	F	low Rate	gal/min
in	m	in @1009m (1009TVD)	84.6	Bo	ttoms Up	-
Drill Collar Size	Length	Production or Liner	In Storage	Total C	Circ Time	
in	m		520	Circulating	Pressure	

	MUD PROPE	RTIES	<u>'</u>	PRODUCTS	USED LAST 24 HR	S
Sample From		Pit 2@19:00	Pit 4@07:00	Products	Size	Amt
Flow Line Temp	°C	_)			
Depth/TVD	m	665/665	665/665			
Mud Weight	sp.gr.	1.04@15°C	1.22@15°C			
Funnel Viscosity	s/qt	> 100	58			
Rheology Temp	°Ĉ	15	49			
R600/R300		70/60	38/26			
R200/R100		58/55	20/14			
R6/R3		49/48	5/4			
PV	cP	10	12			
YP	lb/100ft ²	50	14			
10s/10m/30m Gel	lb/100ft ²	38/52/53	4/7/7			
API Fluid Loss	cc/30 min	13	8.8			
HTHP FL Temp	cc/30 min					
Cake API/HTHP	1/32"	1/	1/			
Solids	%Vol	2	9			
Oil/Water	%Vol	/98	/91			
Sand	%Vol			SOLIDS EQUIP	Size	Hr
MBT	lb/bbl	27	5	VSM Shaker 1	2x120,2x105	0
pН		10	6.5	VSM Shaker 2	2x120,2x110	0
Alkal Mud (Pm)		0.5	0	VSM Shaker 3	165,140,2x84	0
Pf/Mf		0.35/0.7	0/1.7	VSM Shaker 4	2x165,2x84	0
Chlorides	mg/l	850	46000	Centrifuge		0
Hardness Ca	mg/l	40	1600	D-Silter		0
KCl	% wt		9			
Sulphite Excess	ppm					
Idcap	ppb		1.2			
LSRV	0.3rpm					
					TY SPECIFICATIO	NS
				Weight	1.04	
				Viscosity	>100 s/qt	
				Filtrate	n/a	

REMARKS AND TREATMENT

Mixed 980 bbl 10.1 ppg KCl/IDCAP mud in Pi 3 & 4 AND 500 bbl of 11.5 ppg KCl/Idcap mud of double concentration in Pit 5 (to be diluted before displacement) in preparation for 12-1/4" section (to be costed in appropriate section). Pit 1 & Pit 2 full of PHG.

REMARKS

Rig up tree and BOP. Run riser. Pressure test to 5000 psi.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS	(%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS
Rig Up/Service	8	Oil Added	0	NaCl	./ .5	np/na Values
Drilling		Water Added	0	KCl	./ .	kp/ka (lb•s^n/100ft²)
Tripping		Mud Received	0	Low Gravity	3.1/28.1	Bit Loss (psi / %)
Non-Productive Ti	m	Dumped	0	Bentonite	3./ 26.9	Bit HHP (hhp/HSI)
BOP NU	14	Shakers	0	Drill Solids	.1/ 1.2	Bit Jet Vel (m/s)
BOP Testing	2	Evaporation	0	Weight Material	NA/ NA	Ann. Vel DP (m/s)
Condition Hole		Centrifuge	0	Chemical Conc	- / .	Ann. Vel DC (m/s)
		Formation	0	Inert/React	.0389	Crit Vel DP (m/s)
		Left in Hole	0	Average SG	2.27	Crit Vel DC (m/s)
		Sweeps	0	Carb/BiCarb (m mole/L)	6.9/ 3.5	

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Jasdeep Singh				
Kelvin Leong 08-9302 3790			\$ 0.00	\$ 20,496.97



Date	21/06/2005	Depth/TVD	655 m / 655 m
Spud Date	16/06/2005	Mud Type	Spud Mud
Water Depth	69	Activity	Pressure Test

Operator: Santos Ltd

Report For: Richard Buitenhuis/Pat King Well Name: Casino 5

Contractor: Diamond Offshore Report For: Ray Breaud/Troy Williams

Field/Area: VIC P-44 **Description**: Gas Devlopment **Location:** Otway Basin

M-I Well No.:

DRILLING AS	SSEMBLY	CASING	MUD VOLUME (bbl)	CIRCULA	TION DATA
Bit Size 12.25 in Smith GS04BDV		Surface	Hole	Pump Make OILWELI	L 1700PT NATIONAL 12P-160
Nozzles 3x20/18/	1/32"	30in @133m (133TVD)	389.4	Pump Size 6.5 X	12.in 6.5 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	gal/stk gal/stk
5 in	m	13.625in @655m (655TVD)	4	Pump stk/min	
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	gal/min
in	m	in @1009m (1009TVD)	4	Bottoms Up	_
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time	
in	m		520	Circulating Pressure	

	MUD PROPE	RTIES	
Sample From		iel Mud@20:0	Cl-Polyme@0
Flow Line Temp	°C	Ŭ.	
Depth/TVD	m	665/665	665/665
Mud Weight	sp.gr.	1.04@15°C	1.22@15°C
Funnel Viscosity	s/qt °C	> 100	54
Rheology Temp	°Č		49
R600/R300		75/65	36/25
R200/R100		60/57	20/14
R6/R3		50/49	5/4
PV	cP	10 55	11
YP	lb/100ft ²	55	14
10s/10m/30m Gel	lb/100ft ²	40/55/55	5/6/7
API Fluid Loss	cc/30 min	14	7
HTHP FL Temp	cc/30 min		
Cake API/HTHP	1/32"	1/	1/
Solids	%Vol	2	8
Oil/Water	%Vol	/98	/92
Sand	%Vol		
MBT	lb/bbl	27	5
pН		10	7.0
Alkal Mud (Pm)		0.4	0
Pf/Mf		0.3/0.5	0/1.8
Chlorides	mg/l	800	47000
Hardness Ca	mg/l	80	1600
KCl	% wt		9
Sulphite Excess	ppm		
Idcap	ppb		1.5
LSRV	0.3rpm		

	JSED LAST 24	
Products	Size	Am
SOLIDS EQUIP	Size	Hr
VSM Shaker 1	2x120,2x105	0
VSM Shaker 2	2x120,2x110	0
VSM Shaker 3	165,140,2x84	0
VSM Shaker 4	2x165,2x84	0
Cambridana		0
Centriruge		U
Centrifuge D-Silter		0
D-Silter		
D-Silter D-Silter		0
D-Silter D-Silter	TY SPECIFICAT	0
D-Silter D-Silter	TY SPECIFICAT 1.04 >100 s/	O

REMARKS AND TREATMENT

Added Soda Ash to KCl/Polymer mud.

Filtrate

n/a

REMARKSRig up and latch BOPs. Function and pressure test BOP components. Run wear bushings.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS	(%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS
Rig Up/Service	11	Oil Added	0	NaCl	./ .4	np/na Values
Drilling		Water Added	0	KCl	./ .	kp/ka (lb•s^n/100ft²)
Tripping	4.5	Mud Received	0	Low Gravity	3./ 27.2	Bit Loss (psi / %)
Non-Productive Ti	m	Formation	0	Bentonite	3./ 27.	Bit HHP (hhp/HSI)
BOP NU		Left in Hole	0	Drill Solids	./ .2	Bit Jet Vel (m/s)
BOP Testing	5.5	Sweeps	0	Weight Material	NA/ NA	Ann. Vel DP (m/s)
Testing	3	Dumped	0	Chemical Conc	- / .	Ann. Vel DC (m/s)
-		Shakers	0	Inert/React	.0061	Crit Vel DP (m/s)
		Evaporation	0	Average SG	2.3	Crit Vel DC (m/s)
		Centrifuge	0	Carb/BiCarb (m mole/L)	5.9/ 3.	

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Jasdeep Singh				
Kelvin Leong 08-9302 3790			\$ 0.00	\$ 20,496.97



 Date
 22/06/2005
 Depth/TVD
 951 m / 951 m

 Spud Date
 16/06/2005
 Mud Type
 Spud Mud

 Water Depth
 69
 Activity
 Drill 12.25" Hole

Operator :Santos LtdField/Area :VIC P-44Report For :Richard Buitenhuis/Pat KingDescription :Gas DevlopmentWell Name :Casino 5Location :Otway Basin

Contractor: Diamond Offshore

Report For: Ray Breaud/Troy Williams

M-I Well No.:

DRILLING AS	SEMBLY	CASING	MUD VOLUME (bbl)	CIRCULATIO	ON DATA
Bit Size 12.25 in Sm	ith GS04BDV	Surface	Hole	Pump Make OILWELL 170	00PT NATIONAL 12P-160
Nozzles 3x20/18/	1/32"	30in @133m (133TVD)	484.9	Pump Size 6.5 X 12.i	in 6.5 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap 5.016 gal	stk 5.016 gal/stk
5 in	671 m	13.625in @655m (655TVD)	6.1	Pump stk/min 100@979	% 100@97%
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	1003 gal/min
5 in	140 m	in @1009m (1009TVD)	491	Bottoms Up	18.3 min 3666 stk
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time	20.6 min 4112 stk
8 in	140 m			Circulating Pressure	3000 psi

0 111	1 10 111			Circulating 1 1055	
	MUD PROPERTIES				USED LAST 24
Sample From		PHG@21:00	Cl-IDCAP@03	Products	Size
low Line Temp	°C			CAUSTIC SODA	25 KG DN
Depth/TVD	m	879/879	655/655	MI Gel (Bulk)	1 MT BG
Aud Weight	sp.gr.	1.04@15°C	1.21@15°C		
Funnel Viscosity	s/qt	>100	49		
Rheology Temp	°Ĉ	15	49		
R600/R300		74/64	33/23		
R200/R100		59/55	19/14		
R6/R3		50/50	5/4		
PV	cР	10	10		
YP	lb/100ft ²	54	13		
10s/10m/30m Gel	lb/100ft ²	38/55/57	4/5/6		
API Fluid Loss	cc/30 min	13	7.3		
HTHP FL Temp	cc/30 min				
Cake API/HTHP	1/32"	1/	1/		
Solids	%Vol	2	8		
Oil/Water	%Vol	/98	/92		<u>.</u>
Sand	%Vol			SOLIDS EQUIP	Size
MBT	lb/bbl	28	5	VSM Shaker 1	2x120,2x105
H		9.5	7.2	VSM Shaker 2	2x120,2x110
Alkal Mud (Pm)		0.45	0	VSM Shaker 3	165,140,2x84
f/Mf		0.25/0.5	0/1.7	VSM Shaker 4	2x165,2x84
Chlorides	mg/l	750	45000	Centrifuge	
Hardness Ca	mg/l	80	1400	D-Silter	
KC1	% wt		7.5		
Sulphite Excess	ppm				
dcap	ppb		1.5		
LSRV	0.3rpm				
	_				TY SPECIFICATION
				Weight	1.04
					-,,,
				Viscosity Filtrate	>100 s/qt

REMARKS AND TREATMENT

Mixed an additional 1080 bbl PHG for sweeps.

REMARKS

Make up 12-1/4" BHA. RIH to tag cement at 633 m. Drilled through cement and 3 m of new formation. Pulled back to the shoe and performed LOT to 17.4 ppg. Drilled ahead with seawater and 50 bbl sweeps/spots at midstand and connections.

TIME DISTR	Last 24 Hrs	MUD VOL AC	CTG (bbl)	SOLIDS ANALYSIS	(%/lb/bbl)	MUD RHEOLOG	GY & HYDRAULICS
Rig Up/Service	0.5	Oil Added	0	NaCl	./ .4	np/na Values	0.209/0.027
Drilling	13.5	Water Added	1078	KCl	./ .	kp/ka ($lb \cdot s^n/100ft^2$)	18.495/51.036
Tripping	8.5	Mud Received	0	Low Gravity	3.1/28.	Bit Loss (psi / %)	589 / 19.6
Non-Productive Ti	m	Dumped	80	Bentonite	3.1/28.	Bit HHP (hhp/HSI)	344 / 2.9
Testing	1	Shakers	0	Drill Solids	./ .	Bit Jet Vel (m/s)	84
Condition Hole	0.5	Evaporation	0	Weight Material	NA/ NA	Ann. Vel DP (m/s)	1
		Centrifuge	0	Chemical Conc	- / .	Ann. Vel DC (m/s)	1.45
		Formation	0	Inert/React	.0008	Crit Vel DP (m/s)	3
		Left in Hole	0	Average SG	2.27	Crit Vel DC (m/s)	3
		Sweeps	1540	Carb/BiCarb (m mole/L)	5./ 7.9	ECD @ 951 (sp.gr.)	1.11

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Jasdeep Singh				
Kelvin Leong 08-9302 3790			\$ 2,304.78	\$ 22,801.75



Date	23/06/2005	Depth/TVD	1160 m / 1159 m
Spud Date	16/06/2005	Mud Type	KCI / IDCAP
Water Depth	69	Activity	Tripping

Operator: Santos Ltd
Report For: Richard Buitenhuis/Pat King
Well Name: Casino 5

Contractor: Diamond Offshore **Report For**: Ray Breaud/Troy Williams

Field/Area: VIC P-44

Description: Gas Devlopment
Location: Otway Basin

M-I Well No.:

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA
Bit Size 12.25 in Sm	ith GS04BDV	Surface	Hole	Pump Make OILWELL 1700PT NATIONAL 12P-160
Nozzles 3x20/18/	1/32"	30in @133m (133TVD)	641.8	Pump Size 6.5 X 12.in 6.5 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap 5.016 gal/stk 5.016 gal/stk
5 in	m	13.625in @655m (655TVD)	413.2	Pump stk/min 97@97% 97@97%
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate 973 gal/min
5 in	140 m	in @1009m (1009TVD)	413.2	Bottoms Up min 0 stk
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time 17.8 min 3460 stk
8 in	140 m	9.625in @1720m (1718TVD)	1083	Circulating Pressure 3000 psi

MUD PROPERTIES					
Sample From		Pit 3@15:30	Pit 3@08:00		
Flow Line Temp	°C	38	32		
Depth/TVD	m	1160/1160	1026/1026		
Mud Weight	sp.gr.	1.22@37°C	1.21@25°C		
Funnel Viscosity	s/qt	55	50		
Rheology Temp	°C	49	49		
R600/R300		56/41	43/31		
R200/R100		34/25	25/17		
R6/R3		10/8	6/5		
PV	cP	15	12		
YP	lb/100ft ²	26	19		
10s/10m/30m Gel	lb/100ft ²	10/15/18	6/6/7		
API Fluid Loss	cc/30 min	4.8	5.6		
HTHP FL Temp	cc/30 min				
Cake API/HTHP	1/32"	1/	1/		
Solids	%Vol	9	8		
Oil/Water	%Vol	/91	/92		
Sand	%Vol	1	tr		
MBT	lb/bbl	2.5	tr 5		
pH		9	7.2		
Alkal Mud (Pm)		0.4	0		
Pf/Mf		0.1/0.5	0/1.4		
Chlorides	mg/l	42000	44000		
Hardness Ca	mg/l	560	1600		
	-				
KCl	% wt	8	8		
Sulphite Excess	ppm	25	25		
Ideap	ppb	2.4	1.5		
LSRV	0.3rpm				
	•				

PRODUCTS USED LAST 24 HRS					
Products		Size	Amt		
CAUSTIC SODA		25 KG DM	4		
DEFOAM A		5 GA CN	4		
DUO-VIS		25 KG BG	80		
GLUTE 25		25 LT CN	8		
OS-1		25 KG BG	20		
POLYPAC UL		25 KG BG	90		
SODA ASH		25 KG BG	22		
IDCAP D		25 KG BG	91		
POTASSIUM HYDROX	IDE	25 KG CN	13		
MI BAR (Bulk)		1 MT BG	58		
MI Gel (Bulk)		1 MT BG	17		
BRINE KCl 16%		1 BL BL	2000		
SOLIDS EQUIP		Size	Hr		
VSM Shaker 1		4 v 180	10		

SOLIDS EQUIP	Size	Hr
VSM Shaker 1	4 x 180	10
VSM Shaker 2	4 x 180	10
VSM Shaker 3	4 x 165	10
VSM Shaker 4	4 x 165	10
Centrifuge		0
D-Silter		0

MUD PROPERTY SPECIFICATIONS					
Weight	1.04				
Viscosity	>100 s/qt				
Filtrate	n/a				

REMARKS AND TREATMENT

Used 1100 bbls KCl/IDCAP mud to displace the hole and lost 400 bbl downhole. Treated system with 1.5 ppb Duovis and 1 ppb IDCAP-D. Lost downhole 40 bbl at 1100 m and healed naturally. Received 1000 16% KCl Brine from Pacific Wrangler. Changed screens to 165/180 mesh (old screens) at 1160 m. Gel stock adjusted as per BCRO.

REMARKS

Pumped Gel spacer and displaced to KCl/IDCAP mud while drilling from 994 m to 1009 m. Continued drilling to 1160 m. Circulate hole clean/boosted riser. Pump slug. POOH for bit change.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS	(%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS
Rig Up/Service	2.5	Oil Added	0	NaCl	.1/ 1.1	np/na Values
Drilling	14.5	Water Added	600	KCl	3./ 27.6	kp/ka (lb•s^n/100ft²)
Tripping	5.5	Mud Received	0	Low Gravity	1.1/ 10.5	Bit Loss (psi / %)
Non-Productive Ti	m	Dumped	0	Bentonite	.2/ 2.1	Bit HHP (hhp/HSI)
Condition Hole	1.5	Shakers	148	Drill Solids	.4/ 3.3	Bit Jet Vel (m/s)
		Evaporation	0	Weight Material	4.7/ 69.3	Ann. Vel DP (m/s)
		Centrifuge	0	Chemical Conc	- / 5.	Ann. Vel DC (m/s)
		Formation	440	Inert/React	1.1823	Crit Vel DP (m/s)
		Left in Hole	0	Average SG	3.89	Crit Vel DC (m/s)
		Sweeps	0	Carb/BiCarb (m mole/L)	2./ 10.	

	M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
J	asdeep Singh				
k	Kelvin Leong 08-9302 3790			\$ 95,023.08	\$ 117,824.83



 Date
 24/06/2005
 Depth/TVD
 1343 m / 1342 m

 Spud Date
 16/06/2005
 Mud Type
 KCI / IDCAP

 Water Depth
 69
 Activity
 Drilling 12.25"

Operator :Santos LtdField/Area :VIC P-44Report For :Richard Buitenhuis/Pat KingDescription :Gas DevlopmentWell Name :Casino 5Location :Otway Basin

Contractor: Diamond Offshore M-I Well No.: Report For: Paul Baker/Troy Williams

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULAT	TION DATA
Bit Size 12.25 in Sm	nith GS04BDV	Surface	Hole	Pump Make OILWELL	1700PT NATIONAL 12P-160
Nozzles 3x20/18/	1/32"	30in @133m (133TVD)	713.6	Pump Size 6.5 X 1	2.in 6.5 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap 5.016	gal/stk 5.016 gal/stk
5 in	1063 m	13.625in @655m (655TVD)	477.4	Pump stk/min 102@3	97%
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	1023 gal/min
5 in	140 m	in @1009m (1009TVD)	1191	Bottoms Up	26.4 min 5390 stk
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time	48.9 min 9975 stk
8 in	140 m	9.625in @1720m (1718TVD)	1321	Circulating Pressure	3129 psi

O III	140 III 9.02	3111 (<i>W</i>) 1 / 20111 (1 / 1	01 VD)	1321	Circulating Fless	ure	3129 psi	
	MUD PROPE	RTIES			PRODUCTS	USED	LAST 24 HR	5
Sample From		Pit 3@19.00	Pit 3@08:30		Products		Size	Amt
Flow Line Temp	°C	48	32		DUO-VIS		25 KG BG	12
Depth/TVD	m	1284/1283	1160/1159		POTASSIUM HYDROX	KIDE	25 KG CN	10
Mud Weight	sp.gr.	1.22@39°C	1.22@30°C		MI BAR (Bulk)		1 MT BG	6
Funnel Viscosity	s/qt	49	60		BRINE NaCl 18%+KCl	5%	1 BL BL	520
Rheology Temp	°Ĉ	49	49					
R600/R300		48/37	58/43					
R200/R100		32/24	36/26					
R6/R3		10/7	10/8					
PV	cP	11	15					
YP	lb/100ft ²	26	28					
10s/10m/30m Gel	lb/100ft ²	8/12/14	9/13/14					
API Fluid Loss	cc/30 min	5.0	5.0					
HTHP FL Temp	cc/30 min							
Cake API/HTHP	1/32"	1/	1/					
Solids	%Vol	10	9					
Oil/Water	%Vol	/90	/91					
Sand	%Vol	0.5	0.5		SOLIDS EQUIP		Size	Hr
MBT	lb/bbl	5	5		VSM Shaker 1		4 x 180	18
pН		8.4	8.3		VSM Shaker 2		4 x 180	18
Alkal Mud (Pm)		0.1	0		VSM Shaker 3		4 x 165	18
Pf/Mf		0.9/0.8	0.05/1.4		VSM Shaker 4		4 x 165	18
Chlorides	mg/l	45000	43000		Centrifuge			0
Hardness Ca	mg/l	1040	1280		D-Silter			0
KCl	% wt	6	6.5					
Sulphite Excess	ppm	250	250					
Idcap	ppb	2.44	2.4					
LSRV	0.3rpm							
					MUD PROPER	RTY SP		NS
					Weight		1.24	
					Viscosity		6rpm 10-14	
					Filtrate		<5	

REMARKS AND TREATMENT

Added KOH and Duovis to the active system to maintain the programmed pH range, and rheology. Slowly transferred premix into active to maintain volume.

REMARKS

Changed bit and MWD assembly. RIH. Drilled ahead to 1343 m. ROP in 12 - 20 m/hr range through the Timboon sandstone. Duovis used to increase 6 rpm reading up from minimum program range for good hole cleaning.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS	(%/lb/bbl)	MUD RHEOLOGY & HYI	DRAULICS
Rig Up/Service	4.5	Oil Added	0	NaCl	.2/ 2.6	np/na Values	0.376/0.351
Drilling	14.5	Water Added	30	KCl	3./ 27.3	kp/ka (lb•s^n/100ft²)	3.796/4.211
Tripping	5	Mud Received	520	Low Gravity	3.1/28.3	Bit Loss (psi / %)	718 / 23
Non-Productive Ti	m	Dumped	44	Bentonite	.3/ 2.7	Bit HHP (hhp/HSI)	429 / 3.6
Condition Hole		Shakers	142	Drill Solids	2.3/ 20.6	Bit Jet Vel (m/s)	86
		Evaporation	0	Weight Material	3.7/ 53.7	Ann. Vel DP (m/s)	.86
		Centrifuge	0	Chemical Conc	- / 5.	Ann. Vel DC (m/s)	1.17
		Formation	0	Inert/React	3.6691	Crit Vel DP (m/s)	2
		Left in Hole	0	Average SG	3.46	Crit Vel DC (m/s)	2
		Sweeps	0	Carb/BiCarb (m mole/L)	18./ 359.1	ECD @ 1343 (sp.gr.)	1.25

M-I ENGR / PHONE RIG PHONE WAREHOUSE PHONE DAILY COST CUMULATIVE COST

Gordon Howie
Kelvin Leong 08-9302 3790 \$ 11,704.00 \$ 129,528.83



 Date
 25/06/2005
 Depth/TVD
 1690 m / 1687 m

 Spud Date
 16/06/2005
 Mud Type
 KCI / IDCAP

 Water Depth
 69
 Activity
 Drilling 12 1/4"

Operator :Santos LtdField/Area :VIC P-44Report For :Richard Buitenhuis/Pat KingDescription :Gas DevlopmentWell Name :Casino 5Location :Otway Basin

Contractor: Diamond Offshore M-I Well No.: Report For: Paul Baker/Troy Williams

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size 12.25 in Hyc	alog DSX	Surface	Hole	Pump Make OILWELL	1700PT NATIONAL 12P-16(
Nozzles 5x16 / 1/32	"	30in @133m (133TVD)	826.8	Pump Size 6.5 X	12.in 6.5 X 12.in	
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap 5.016	gal/stk 5.016 gal/stk	
5 in	1439 m	13.625in @655m (655TVD)	493.2	Pump stk/min 92@9	97%	
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	918 gal/min	
5 in	138 m	in @1009m (1009TVD)	1320	Bottoms Up	33.7 min 6160 stk	
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time	60.4 min 11052 stk	
8 in 113 m		9.625in @1720m (1718TVD)	1180	Circulating Pressure	3200 psi	

O III	113 111 9.02	3III (<i>a</i>) 1 / 20III (1 / 1	01 VD)	1100	Circulating Fiess	ure	3200 psi	
	MUD PROPE	RTIES			PRODUCTS	USED	LAST 24 HRS	3
Sample From		Pit 3@2100	Pit 3@15.00		Products		Size	Amt
Flow Line Temp	°C	48	43		DUO-VIS		25 KG BG	1
Depth/TVD	m	1598/1596	1404/1402		OS-1		25 KG BG	6
Mud Weight	sp.gr.	1.25@46°C	1.23@36°C		POLYPAC UL		25 KG BG	11
Funnel Viscosity	s/qt	54	47		IDCAP D		25 KG BG	11
Rheology Temp	°Ĉ	49	49		POTASSIUM HYDROX	KIDE	25 KG CN	6
R600/R300		73/56	62/48		MI BAR (Bulk)		1 MT BG	7
R200/R100		47/37	41/32					
R6/R3		14/11	13/9					
PV	cP	17	14					
YP	lb/100ft ²	39	34					
10s/10m/30m Gel	lb/100ft ²	13/15/18	11/13/17					
API Fluid Loss	cc/30 min	3.8	4.8					
HTHP FL Temp	cc/30 min							
Cake API/HTHP	1/32"	1/	1/					
Solids	%Vol	12	10					
Oil/Water	%Vol	/88	/90					
Sand	%Vol	0.5	0.5		SOLIDS EQUIP		Size	Hr
MBT	lb/bbl	6	6		VSM Shaker 1		4 x 180	15
pН		8	7.9		VSM Shaker 2		4 x 180	15
Alkal Mud (Pm)		0.4	0.4		VSM Shaker 3		4 x 180	15
Pf/Mf		0.1/1.4	0.1/1.4		VSM Shaker 4	3 x	180 1 x 165	15
Chlorides	mg/l	45000	45000		Centrifuge			0
Hardness Ca	mg/l	1040	1000		D-Silter			0
KC1	% wt	6	6					
Sulphite Excess	ppm	200	200					
Ideap	ppb		2.5					
LSRV	0.3rpm							
					MUD PROPER	RTY SP		NS
					Weight		1.24	
					Viscosity		6rpm 10-14	
					Filtrate		<5	
		l	1	1	1			

REMARKS AND TREATMENT

Added KOH, OS-1L, IDCAP-D and Polupac UL to the active system to maintain programmed properties. Transfer concentrated premix into active to maintain active volume and required properties. Weighting up to be at 10.3-10.4 ppg by 1530 m.

REMARKS

Drilling slowed down to <10 m/hr. Made up and pumped a 45 bbl KCl 8% brine pill to attempt to clear the bit at 1388m. POOH to change bit at 1392m. Bit balled. RIH continue drilling to 1688m at ROP 20-70 m/hr.

Changed 4 x 180XR Santos screens.

	Last 24 Hrs	MUD VOL AC	CTG (bbl)	SOLIDS ANALYSIS	(%/lb/bbl)	MUD RHEOLO	OGY & HYDRAULICS
Rig Up/Service		Oil Added	0	NaCl	.2/ 2.6	np/na Values	0.382/0.346
Drilling	14.5	Water Added	20	KCl	2.9/ 26.7	kp/ka (lb•s^n/100ft	2) 5.501/6.676
Tripping	9.5	Mud Received	0	Low Gravity	5.3/48.3	Bit Loss (psi / %)	840 / 26.2
Non-Productive Tin	n	Dumped	0	Bentonite	.1/ 1.3	Bit HHP (hhp/HS)	(I) 450 / 3.8
Condition Hole		Shakers	46	Drill Solids	4.6/ 42.	Bit Jet Vel (m/s)	91
		Evaporation	0	Weight Material	3.5/ 51.9	Ann. Vel DP (m/s)	.91
		Centrifuge	0	Chemical Conc	- / 5.	Ann. Vel DC (m/s)	1.33
		Formation	0	Inert/React	6.2195	Crit Vel DP (m/s)	2
		Left in Hole	0	Average SG	3.24	Crit Vel DC (m/s)	2
		Sweeps	0	Carb/BiCarb (m mole/L)	2./ 100.2	ECD @ 1690 (sp.g.	r.) 1.29
	NOD / DUO	\	DIO DUONE	WAREHOUSE	DUONE	DAILYCOOT	OUMUL ATIVE COOT

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Gordon Howie				
Kelvin Leong 08-9302 3790			\$ 5,941.65	\$ 135,470.48



 Date
 26/06/2005
 Depth/TVD
 1730 m / 1726 m

 Spud Date
 16/06/2005
 Mud Type
 KCI / IDCAP

 Water Depth
 69
 Activity
 Run 9 5/8" Casing

Operator: Santos Ltd

Report For: Richard Buitenhuis/Pat King **Well Name:** Casino 5

Contractor: Diamond Offshore
Report For: Paul Baker/Troy Williams

Field/Area: VIC P-44

Description: Gas Devlopment
Location: Otway Basin

M-I Well No.:

DRILLING ASSEMBLY MUD VOLUME CIRCULATION DATA CASING (bbl) Bit Size in Pump Make OILWELL 1700PT NATIONAL 12P-16(Surface Hole Nozzles 1/32" 903.5 30in @133m (133TVD) 6.5 X 12.in 6.5 X 12.in Pump Size Drill Pipe Size Length Intermediate **Active Pits** Pump Cap gal/stk gal/stk 421.5 Pump stk/min 13.625in @655m (655TVD) m Drill Pipe Size Intermediate **Total Circulating Vol** Flow Rate gal/min Length in @1009m (1009TVD) 421.5 Bottoms Up m Drill Collar Size Length Production or Liner In Storage Total Circ Time Circulating Pre

ın	m 9.62:	5in @1720m (1718TVD)	727	Circulating Pressi		
	MUD PROPE	RTIES		PRODUCTS	USED LAST 24 HRS	S
Sample From		Pit 3@04:30		Products	Size	Amt
Flow Line Temp	°C	58		DEFOAM A	5 GA CN	1
Depth/TVD	m	1730/1726		DUO-VIS	25 KG BG	8
Mud Weight	sp.gr.	1.25@30°C		POLYPAC UL	25 KG BG	6
Funnel Viscosity	s/qt	49		IDCAP D	25 KG BG	12
Rheology Temp	°Ĉ	49		MI BAR (Bulk)	1 MT BG	13
R600/R300		64/50				
R200/R100		42/33				
R6/R3		12/9				
PV	cP	14				
YP	lb/100ft ²	36				
10s/10m/30m Gel	lb/100ft ²	10/15/17				
API Fluid Loss	cc/30 min	4.5				
HTHP FL Temp	cc/30 min					
Cake API/HTHP	1/32"	1/				
Solids	%Vol	10				
Oil/Water	%Vol	/90				
Sand	%Vol	0.5		SOLIDS EQUIP	Size	Hr
MBT	lb/bbl	5		VSM Shaker 1	4 x 180	7
pН		7.9		VSM Shaker 2	4 x 180	7
Alkal Mud (Pm)		0		VSM Shaker 3	4 x 180	7
Pf/Mf		0.05/1.5		VSM Shaker 4	3 x 180 1 x 165	7
Chlorides	mg/l	46000		Centrifuge		0
Hardness Ca	mg/l	1160		D-Silter		0
KCl	% wt	6.5				
Sulphite Excess	ppm	250				
Idcap	ppb	2.5				
LSRV	0.3rpm					
					RTY SPECIFICATION	NS
				Weight	1.24	
				Viscosity	6rpm 10-14	
				Filtrate	<5	
			1			

REMARKS AND TREATMENT

Built 180 bbl premix to replace volume in active as required. Made up and pumped hi-vis sweep at TD.

REMARKS

Drilled ahead to TD at 1730m. Pumped hi-vis sweep and circulated until cuttings on shakers tapered off. POOH. Back reamed tight spots to casing shoe. RIH for wiper trip. POOH. Retreive wear bushing from wellhead. 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		Oil Added	0	NaCl	.3/ 3.2	np/na Values
Drilling	1.5	Water Added	0	KCl	3./ 27.3	kp/ka (lb•s^n/100ft²)
Tripping	10.5	Mud Received	0	Low Gravity	1.2/ 11.1	Bit Loss (psi / %)
Non-Productive Ti	m	Dumped	292	Bentonite	.5/ 4.2	Bit HHP (hhp/HSI)
Condition Hole	2	Shakers	178	Drill Solids	.8/ 6.8	Bit Jet Vel (m/s)
Reaming	6	Evaporation	0	Weight Material	5.5/80.9	Ann. Vel DP (m/s)
Running Casing	4	Centrifuge	0	Chemical Conc	- / .	Ann. Vel DC (m/s)
		Formation	0	Inert/React	1.2137	Crit Vel DP (m/s)
		Left in Hole	0	Average SG	3.91	Crit Vel DC (m/s)
		Sweeps	0	Carb/BiCarb (m mole/L)	1./ 63.	

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Gordon Howie				
Kelvin Leong 08-9302 3790			\$ 8,361.55	\$ 143,832.03



Date 27/06/2005 Depth/TVD Spud Date 16/06/2005 Mud Type 1720 m / 1718 m KCI / IDCAP Water Depth Running wear bushing 69 Activity

Operator: Santos Ltd Report For: Richard Buitenhuis/Pat King

Well Name: Casino 5 **Contractor:** Diamond Offshore Report For: Paul Baker/Troy Williams

Field/Area: VIC P-44 **Description**: Gas Devlopment **Location:** Otway Basin

M-I Well No.:

Report For . F	aui Bakei/110	y williallis					
DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA			
Bit Size in		Surface	Hole	Pump Make OILWEI	LL 1700PT NATIONAL 12P-160		
Nozzles 1/32"		30in @133m (133TVD)	503.4	Pump Size 6.5	X 12.in 6.5 X 12.in		
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	gal/stk gal/stk		
in	m	13.625in @655m (655TVD)	475.6	Pump stk/min			
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rat	gal/min		
in	m	9.625in @1720m (1718TVD)	475.6	Bottoms U	p		
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Tim	e		
in	m		727	Circulating Pressur	re		
	MIID PR	OPERTIES		PRODUCTS I	ISED I AST 24 HRS		

	MUD PROPE	ERTIES			
Sample From		FloPro@16.00	Pit 3@04:00		
Flow Line Temp	°C				
Depth/TVD	m	1730/1726	1730/1726		
Mud Weight	sp.gr.	1.24@24°C	1.25@25°C		
Funnel Viscosity	s/qt °C	65	53		
Rheology Temp	°Ĉ	49	49		
R600/R300		61/47	82/65		
R200/R100		40/32	55/43		
R6/R3		17/14	15/13		
PV	cP	14	17		
YP	lb/100ft ²	33	48		
10s/10m/30m Gel	lb/100ft ²	14/17/21	13/19/24		
API Fluid Loss	cc/30 min	5	4.3		
HTHP FL Temp	cc/30 min				
Cake API/HTHP	1/32"	1/	1/		
Solids	%Vol	13	10		
Oil/Water	%Vol	/87	/90		
Sand	%Vol	0	0.5		
MBT	lb/bbl	0	7.5		
pH		9.9	7.8		
Alkal Mud (Pm)			0		
Pf/Mf		0.2/0.8	0.05/1.5		
Chlorides	mg/l	144000	45000		
Hardness Ca	mg/l	80	1200		
KC1	% wt	6	6.5		
Sulphite Excess	ppm		250		
Ideap	ppb		2.9		
LSRV	0.3rpm	44791			

Circulating Pressu PRODUCTS I	JSED LAST 24 HR	S
Products	Size	Amt
Troducts	Size	7 11110
SOLIDS EQUIP	Size	Hr
	2 x 180, 2 x 14	0
	2 11 100, 2 11 1 1	
VSM Shaker 2	2 x 105, 2 x 84	0
VSM Shaker 2	2 x 105, 2 x 84	0
VSM Shaker 2 VSM Shaker 3	2 x 105, 2 x 84 2 x 180, 140, 1 4 x 84	
VSM Shaker 2 VSM Shaker 3 VSM Shaker 4	2 x 105, 2 x 84 2 x 180, 140, 1	0
VSM Shaker 2 VSM Shaker 3 VSM Shaker 4 Centrifuge	2 x 105, 2 x 84 2 x 180, 140, 1	0
VSM Shaker 2 VSM Shaker 3 VSM Shaker 4 Centrifuge	2 x 105, 2 x 84 2 x 180, 140, 1	0 0
VSM Shaker 2 VSM Shaker 3 VSM Shaker 4 Centrifuge	2 x 105, 2 x 84 2 x 180, 140, 1	0 0
VSM Shaker 2 VSM Shaker 3 VSM Shaker 4 Centrifuge	2 x 105, 2 x 84 2 x 180, 140, 1	0 0
VSM Shaker 1 VSM Shaker 2 VSM Shaker 3 VSM Shaker 4 Centrifuge D-Silter	2 x 105, 2 x 84 2 x 180, 140, 1	0 0
VSM Shaker 2 VSM Shaker 3 VSM Shaker 4 Centrifuge	2 x 105, 2 x 84 2 x 180, 140, 1	0 0
VSM Shaker 2 VSM Shaker 3 VSM Shaker 4 Centrifuge D-Silter	2 x 105, 2 x 84 2 x 180, 140, 1 4 x 84	0 0 0 0
VSM Shaker 2 VSM Shaker 3 VSM Shaker 4 Centrifuge D-Silter MUD PROPER	2 x 105, 2 x 84 2 x 180, 140, 1 4 x 84	0 0 0 0
VSM Shaker 2 VSM Shaker 3 VSM Shaker 4 Centrifuge D-Silter MUD PROPER Weight	2 x 105, 2 x 84 2 x 180, 140, 1 4 x 84 TY SPECIFICATIO 1.24	0 0 0 0 0
VSM Shaker 2 VSM Shaker 3 VSM Shaker 4 Centrifuge D-Silter MUD PROPER	2 x 105, 2 x 84 2 x 180, 140, 1 4 x 84	0 0 0 0 0

REMARKS AND TREATMENT

Mixing Flo Pro mud, 300 bbl in Pit 2 and 410 bbls in Pit 5. Received 830 bbl NaCl/KCl brine, 9.7ppg, from Far Grip.

REMARKS

Run & cement 9-5/8" casing. Shoe at 1719.79m. Latch seal assembly and pressure test to 5000 psi.

Used 7 new Santos screens preparing shakers for displacement to FloPro system. 2 x 84, 2 x 105, 1 x 140, 2 x 145 mesh

TIME DISTR L	ast 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS	(%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS
Rig Up/Service	7	Oil Added	0	NaCl	6./ 61.4	np/na Values
Drilling		Water Added	0	KCl	2.1/ 19.4	kp/ka (lb•s^n/100ft²)
Tripping		Mud Received	0	Low Gravity	.4/ 3.8	Bit Loss (psi / %)
Non-Productive Tim		Dumped	0	Bentonite	./ .	Bit HHP (hhp/HSI)
Condition Hole		Shakers	95	Drill Solids	.5/ 4.2	Bit Jet Vel (m/s)
Cementing	3	Evaporation	0	Weight Material	4.5/ 45.	Ann. Vel DP (m/s)
Running Casing	14	Centrifuge	0	Chemical Conc	- / .	Ann. Vel DC (m/s)
		Formation	0	Inert/React	-	Crit Vel DP (m/s)
		Left in Hole	251	Average SG	2.83	Crit Vel DC (m/s)
		Sweeps	0	Carb/BiCarb (m mole/L)	3.9/ 2.5	

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Gordon Howie				
Kelvin Leong 08-9302 3790			\$ 0.00	\$ 143,832.03



Amt

5

36

6

1104

74

618

Hr

0

0 0

Date 28/06/2005 Depth/TVD 1806 m / 1802 m FloPro Drilled 8 1/2" POOH Spud Date | 16/06/2005 **Mud Type** Water Depth 69 Activity

Field/Area: VIC P-44 Operator: Santos Ltd Report For: Ron King / Jeff Thomson **Description:** Gas Devlopment Well Name: Casino 5 Location: Otway Basin

Contractor: Diamond Offshore M-I Well No.:

Report For: Paul Baker/Troy Williams

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION	I DATA
Bit Size 8.5 in Hycalo	og DSX104	Surface	Hole	Pump Make OILWELL 1700	PT VATIONAL 12P-160
Nozzles 2x16/3x15/	1/32"	30in @133m (133TVD)	477.4	Pump Size 6.5 X 12.in	6.5 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap 5.016 gal/s	tk 5.016 gal/stk
5 in	1541 m	13.625in @655m (655TVD)	537.6	Pump stk/min 68@97%	_
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	682 gal/min
5 in	138 m	9.625in @1720m (1718TVD)	1015	Bottoms Up 2	2.9 min 3113 stk
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time	62.5 min 8501 stk
6.625 in	127 m	7in @1806m (1802TVD)	91	Circulating Pressure	2373 psi
	MUD PR	OPERTIES		PRODUCTS USED I	AST 24 HRS

	MUD PROPE	RTIES		PRODUCTS U	JSED LAST 24 HR	S
Sample From		Pit 3@19.30	Pit 4@07:00	Products	Size	Т
Flow Line Temp	°C	43	0	GLUTE 25	25 LT CN	
Depth/TVD	m	1806/1802	1720/1718	FLO-VIS PLUS	25 KG BG	
Mud Weight	sp.gr.	1.24@40°C	1.24@15°C	POTASSIUM HYDROXI		
Funnel Viscosity	s/qt	50	55	OMYACARB 20	25 KG BG	
Rheology Temp	°Ĉ	49	49	DUAL-FLO HT	50 LB BG	
R600/R300		60/46	45/34	BRINE NaCl 18%+KCl 5	% 1 BL BL	
R200/R100		39/31	29/22	SALT - FINE	1 MT BG	
R6/R3		14/12	10/8			
PV	cP	14	11			
YP	lb/100ft ²	32	23			
10s/10m/30m Gel	lb/100ft ²	12/14/17	9/11/12			
API Fluid Loss	cc/30 min	5	4.8			
HTHP FL Temp	cc/30 min					
Cake API/HTHP	1/32"	1/	1/			
Solids	%Vol	14	14			
Oil/Water	%Vol	/86	/86			
Sand	%Vol	0.25	tr	SOLIDS EQUIP	Size	
MBT	lb/bbl	<2.5	<2.5	VSM Shaker 1	2 x 180, 2 x 14	
Н		9.7	9.7	VSM Shaker 2	4 x 200	
Alkal Mud (Pm)		0.8	0.8	VSM Shaker 3	2 x 180, 140, 1	
Pf/Mf		0.1/0.5	0.1/0.5	VSM Shaker 4	3 x 200, 1 x 23	
Chlorides	mg/l	148000	148000	Centrifuge		
Hardness Ca	mg/l	120	120	D-Silter		
KC1	% wt	6.5	6.5			
Sulphite Excess	ppm					
Idcap	ppb					
LSRV	0.3rpm	39794	22795			
					TY SPECIFICATIO	NS
				Weight	1.24	
				Viscosity	6rpm 10-14	
				Filtrate	<5	
		1	1			

REMARKS AND TREATMENT

Completed mixing 1100 bbl (250 bbl dead volume in pits) Flo-Pro mud. Made up a hi-vis spacer in the slug pit. After displacement to FloPro system, added Flo -Vis Plus to increase LSRV reading and for good hole cleaning.

REMARKS

Laid down 12-1/4" BHA and made up 8-1/2" BHA. RIH. Drilled cement and shoe and cleaned out rat hole with KCl mud from previous section. Displaced to Flo-pro mud. Dumped all KCl mud from previous section. Cleaned out MT pits to take on CaCl2 brine (1227 bbls @ 10.0 ppg). Drilled 8 1/2" interval to 1806m.(TVD 1802m)

TIME DISTR L	ast 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS	(%/lb/bbl)	MUD RHEOLOGY & HY	DRAULICS
Rig Up/Service	1.5	Oil Added	0	NaCl	6.1/63.	np/na Values	0.383/0.271
Drilling	7	Water Added	0	KCl	2.1/ 19.2	kp/ka (lb•s^n/100ft²)	4.495/8.234
Tripping	13	Mud Received	0	Low Gravity	4.2/ 38.6	Bit Loss (psi / %)	535 / 22.5
Non-Productive Tim		Dumped	1315	Bentonite	./ .	Bit HHP (hhp/HSI)	213 / 3.7
Condition Hole	2.5	Shakers	0	Drill Solids	5.2/43.4	Bit Jet Vel (m/s)	73
Cementing		Evaporation	0	Weight Material	1.5/ 15.3	Ann. Vel DP (m/s)	1.69
Running Casing		Centrifuge	0	Chemical Conc	- / .	Ann. Vel DC (m/s)	2.99
		Formation	0	Inert/React	-	Crit Vel DP (m/s)	2
		Left in Hole	0	Average SG	2.52	Crit Vel DC (m/s)	2
		Sweeps	0	Carb/BiCarb (m mole/L)	1.9/ 1.9	ECD @ 1806 (sp.gr.)	1.35

M-I ENGR / PHONE **RIG PHONE WAREHOUSE PHONE DAILY COST CUMULATIVE COST** Gordon Howie 08-9302 3790 Kelvin Leong \$ 41,235.78 \$ 185,067.81



Mi SWACO

 Date
 29/06/2005
 Depth/TVD
 1806 m / 1802 m

 Spud Date
 16/06/2005
 Mud Type
 CaCl2 Brine

 Water Depth
 69
 Activity
 Running Screens

Operator : Santos Ltd Field/Area : VIC P-44
Report For : Ron King / Jeff Thomson Description : Gas Devlopment
Well Name : Casino 5 Location : Otway Basin

Contractor: Diamond Offshore M-I Well No.: Report For: Paul Baker/Troy Williams

DRILLING AS	SEMBLY	CASING	MUD VOLUME (bbl)	CIF	RCULATION D	ATA
Bit Size in		Surface	Hole	Pump Make Ol	ILWELL 1700PT	VATIONAL 12P-160
Nozzles 1/32"		30in @133m (133TVD)	494.2(Tot)/372(Bit)	Pump Size	6.5 X 12.in	6.5 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	gal/stk	gal/stk
5 in	1223 m	13.625in @655m (655TVD)	1291.8	Pump stk/min		,
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flo	ow Rate	gal/min
5.5 in	71 m	9.625in @1720m (1718TVD)	1663.9	Botto	oms Up	
Drill Collar Size	Length	Production or Liner	In Storage	Total Cir	rc Time	
in	m	7in @1806m (1802TVD)	329	Circulating P	ressure	

111		11 (<i>W</i>) 1800111 (1802 1	VD)	32)	Circulating 1 10330			
	MUD PROPE	RTIES			PRODUCTS	USED	LAST 24 HRS	3
Sample From		CaCl2@05:00	FloPro@21.00		Products		Size	Amt
Flow Line Temp	°C	_	Ü		SALT - FINE		1 MT BG	1
Depth/TVD	m		1806/1802		DIRT MAGNET		55 GA DM	8
Mud Weight	sp.gr.	1.22	1.24@30°C		SAFE-CIDE		25 KG CN	4
Funnel Viscosity	s/qt		50		SAFE-COR		55 GA DM	13
Rheology Temp	°Ĉ		49		SAFE-VIS E		5 GA CN	10
R600/R300			58/44		SAFE-SURF WN		200 KG DM	1
R200/R100			38/30		BRINE CALCIUM CHL	ORIDE	1 BL BL	1227
R6/R3			12/10		CALCIUM CHLORIDE	(BB)	500 KG BG	13
PV	cP		14					
YP	lb/100ft ²		30					
10s/10m/30m Gel	lb/100ft ²		10/12/15					
API Fluid Loss	cc/30 min		5					
HTHP FL Temp	cc/30 min							
Cake API/HTHP	1/32"		1/					
Solids	%Vol		14					
Oil/Water	%Vol		/86					
Sand	%Vol		.25		SOLIDS EQUIP		Size	Hr
MBT	lb/bbl		<.25		VSM Shaker 1		180, 2 x 14	0
pH		9.1	9.7		VSM Shaker 2		4 x 200	0
Alkal Mud (Pm)			0.8		VSM Shaker 3	2 x	180, 140, 1	0
Pf/Mf			0.1/0.5		VSM Shaker 4	3 x	200, 1 x 23	0
Chlorides	mg/l	146000	148000		Centrifuge			0
Hardness Ca	mg/l		120		D-Silter			0
KC1	% wt		6.5					
Sulphite Excess	ppm							
Idcap	ppb							
LSRV	0.3rpm		36423					
					MUD PROPER	RTY SP		NS
					Weight		1.24	
					Viscosity		6rpm 10-14	
					Filtrate		< 5	
1								

REMARKS AND TREATMENT

Mixed CaCl2 brine as per programme with Safe-Cor, Safe-Cide and Dirt Magnet. A 50 bbl high vis wash spacer was used to separate the Flo-Po mud and the CaCl2 brine.

REMARKS

RIH to bottom and displaced open hole with 56 bbl new Flo-Pro mud. Pulled out to 1650 m and displaced casing with 464 bbl CaCl2 brine. POOH. Running production screens(6 x 38ft)

	ast 24 Hrs	MUD VOL ACCT	G (bbl)	SOLIDS ANALYSIS	(%/lb/bbl)	MUD RHEOL	OGY & HYDRAULICS
Rig Up/Service		Oil Added	0	CaCl2	/ 6.1	np/na Values	0.383/0.271
Drilling		Water Added	0	Low Gravity	/	kp/ka (lb•s^n/100f	(t ²) 4.495/8.234
Tripping	21.5	Mud Received	0	High Gravity	/	Bit Loss (psi / %)	/ 1
Non-Productive Tim	0.5	Dumped	267	Average SG		Bit HHP (hhp/HS	SI) / 1
Condition Hole	2	Shakers	0	Brine SG		Bit Jet Vel (m/s)	·
Cementing		Evaporation	0	Solids Corr/CaCl2		Ann. Vel DP (m/s)	
Running Casing		Centrifuge	0			Ann. Vel DC (m/s)	
		Formation	0			Crit Vel DP (m/s)	
		Left in Hole	0			Crit Vel DC (m/s)	
		Sweeps	0			ECD @ 1679 (sp.g	gr.) 1.34
	10D / DUO		DIO DUONE	WAREHOUSE	BUIGNE	DAIL V COOT	OUMUL ATIVE COOT

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Gordon Howie				
Kelvin Leong 08-9302 3790			\$ 55,031.42	\$ 240,099.23



MiSWACO

 Date
 30/06/2005
 Depth/TVD
 1806 m / 1802 m

 Spud Date
 16/06/2005
 Mud Type
 CaCl2 Brine

 Water Depth
 69
 Activity
 Tripping

Operator : Santos LtdField/Area : VIC P-44Report For : Ron King / Jeff ThomsonDescription : Gas DevlopmentWell Name : Casino 5Location : Otway BasinContractor : Diamond OffshoreM-I Well No. :

Report For: Paul Baker/Troy Williams

DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA		
Bit Size 8.5 in		Surface	Hole	Pump Make OILWELL	1700PT NATIONAL 12P-160	
Nozzles 1/32"		30in @133m (133TVD)	523.2	Pump Size 6.5 X	12.in 6.5 X 12.in	
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	gal/stk gal/stk	
5 in	m	13.625in @655m (655TVD)	1244.8	Pump stk/min		
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	gal/min	
5.5 in	m	9.625in @1720m (1718TVD)	1244.8	Bottoms Up	_	
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time		
in	m	7in @1806m (1802TVD)	556	Circulating Pressure		

	MUD PROPE	RTIES	,		PRODUCTS	USED	LAST 24 HR	S
Sample From		CaCl2@20.00	FloPro@20.00	P	roducts		Size	Amt
Flow Line Temp	°C			O	S-1		25 KG BG	2
Depth/TVD	m	1806/1802	1806/1802	M	II BAR (Bulk)		1 MT BG	2
Mud Weight	sp.gr.	1.22	1.24@30°C	B	RINE NaCl 18%+KCl	5%	1 BL BL	260
Funnel Viscosity	s/qt		50	S	ALT - FINE		1 MT BG	3
Rheology Temp	°Č		49	S	AFE-CIDE		25 KG CN	1
R600/R300			58/44					
R200/R100			38/30					
R6/R3			12/10					
PV	cP		14					
YP	lb/100ft ²		30					
10s/10m/30m Gel	lb/100ft ²		10/12/15					
API Fluid Loss	cc/30 min		5					
HTHP FL Temp	cc/30 min							
Cake API/HTHP	1/32"		1/					
Solids	%Vol		14					
Oil/Water	%Vol		/86					
Sand	%Vol		.25		OLIDS EQUIP		Size	Hr
MBT	lb/bbl		<.25		SM Shaker 1		180, 2 x 14	0
pH		9.1	9.7		SM Shaker 2	_	4 x 200	0
Alkal Mud (Pm)			0.8		SM Shaker 3		180, 140, 1	0
Pf/Mf			0.1/0.5		SM Shaker 4	3 x	200, 1 x 23	0
Chlorides	mg/l	146000	148000		entrifuge			0
Hardness Ca	mg/l		120	D	-Silter			0
KCl	% wt		6.5					
Sulphite Excess	ppm							
Idcap	ppb							
LSRV	0.3rpm		36423					
					MUD PROPER	RTY SP		NS
					Weight		1.24	
					Viscosity		6rpm 10-14	
					Filtrate		<5	

REMARKS AND TREATMENT

No treatments made to CaCl2 brine.

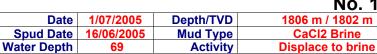
Made up and pumped 30 bbl Flo-Pro + Barite slug as instructed by Santos.

REMARKS

RIH with expandable screened completion liner. Set packer and POOH. Pick up liner expansion tool. RIH. Unable to complete expansion due to oversized BHA. POOH to change BHA. Received 260bbls NaCl/KCl brine 9.7ppg from Far Grip. Weighted to 10ppg and added inhibitors.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG	(bbl)	SOLIDS ANALYSIS	(%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS
Rig Up/Service		Oil Added	0	CaCl2	/ 6.1	np/na Values
Drilling		Water Added	0	Low Gravity	/	kp/ka (lb•s^n/100ft²)
Tripping		Mud Received	0	High Gravity	/	Bit Loss (psi / %)
Non-Productive Tir	n	Dumped	65	Average SG		Bit HHP (hhp/HSI)
Condition Hole		Shakers	0	Brine SG		Bit Jet Vel (m/s)
Cementing		Evaporation	0	Solids Corr/CaCl2		Ann. Vel DP (m/s)
Running Casing		Centrifuge	0			Ann. Vel DC (m/s)
-		Formation	0			Crit Vel DP (m/s)
		Left in Hole	0			Crit Vel DC (m/s)
		Sweeps	0			

M-I ENGR / PHONE	RIG P	HONE WAREHOUS	SE PHONE	DAILY COST	CUMULATIVE COST
Gordon Howie 08-93	302 3790			\$ 5,006.48	\$ 245,105.71



No. 16

Operator :Santos LtdField/Area :VIC P-44Report For :Ron King / Paul NardoneDescription :Gas DevlopmentWell Name :Casino 5Location :Otway Basin

Contractor: Diamond Offshore M-I Well No.: Report For: Paul Baker/Troy Williams

Mi SWACO

DRILLING AS	SEMBLY	CASING	MUD VOLUME (bbl)	CIRCULATION DATA				
Bit Size 8.5 in		Surface	Hole	Pump Make OILWELL	1700PT NATIONAL 12P-16(
Nozzles 1/32"		30in @133m (133TVD)	484.3(Tot)/482.9(Bit)	Pump Size 6.5 X 1	2.in 6.5 X 12.in			
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	gal/stk gal/stk			
5 in	1729 m	13.625in @655m (655TVD)	1503.7	Pump stk/min	-			
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	gal/min			
5.5 in	71 m	9.625in @1720m (1718TVD)	1986.6	Bottoms Up	-			
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time				
in	m	7in @1806m (1802TVD)	329	Circulating Pressure				

111		11 (<i>a</i>) 1800111 (1802 1	VD)	34)	Circulating 1 10350			
	MUD PROPE	RTIES			PRODUCTS	USED	LAST 24 HR	S
Sample From		VaCl pit 5@22	FloPro@22.00		Products		Size	Amt
Flow Line Temp	°C		Ü		DUO-VIS		25 KG BG	1
Depth/TVD	m		1806/1802		BRINE NaCl 18%+KCl:	5%	1 BL BL	677
Mud Weight	sp.gr.	1.2@28°C	1.24@30°C		SALT - FINE		1 MT BG	4
Funnel Viscosity	s/qt	Ŭ.	50		SAFE-VIS E		5 GA CN	5
Rheology Temp	°Č		49					
R600/R300			58/44					
R200/R100			38/30					
R6/R3			12/10					
PV	cP		14					
YP	lb/100ft ²		30					
10s/10m/30m Gel	lb/100ft ²		10/12/15					
API Fluid Loss	cc/30 min		5					
HTHP FL Temp	cc/30 min							
Cake API/HTHP	1/32"		1/					
Solids	%Vol		14					
Oil/Water	%Vol		/86					
Sand	%Vol		25</td <td></td> <td>SOLIDS EQUIP</td> <td></td> <td>Size</td> <td>Hr</td>		SOLIDS EQUIP		Size	Hr
MBT	lb/bbl		<2.5		VSM Shaker 1		180, 2 x 14	0
pH		8.9	9.7		VSM Shaker 2		4 x 200	0
Alkal Mud (Pm)					VSM Shaker 3	2 x	180, 140, 1	0
Pf/Mf					VSM Shaker 4	3 x 2	200, 1 x 23	0
Chlorides	mg/l	158000	148000		Centrifuge			0
Hardness Ca	mg/l				D-Silter			0
KCl	% wt		6.5					
Sulphite Excess	ppm							
Idcap	ppb							
LSRV	0.3rpm							
					MUD PROPER	RTY SP		NS
					Weight		1.22	
					Viscosity			
					Filtrate			
	-							

REMARKS AND TREATMENT

Mixed viscous pill in slug pit for displacement to separate muddy brine in casing from new clean inhibited brine.

REMARKS

RIH to expand production screens. POOH. RIH for scraper run. Displace to CaCl2 brine. Pumped 43 bbl hi vis pill, 152 bbls NaCl brine followed by 462 bbls CaCl2 brine. Taking last 330 bbls NaCl brine off the Far Grip. Transferring all brine remnants from pits into Pit #5. Dumped all muddy brine from hole during displacement.

TIME DISTR L	ast 24 Hrs	MUD VOL AC	CCTG (bbl)	SOLIDS ANALYSIS	(%/lb/bbl)	MUD RHEOL	OGY & HYDRAULICS
Rig Up/Service		Oil Added	0	CaCl2	/ 6.1	np/na Values	0.383/0.271
Drilling		Water Added	0	Low Gravity	/	kp/ka (lb•s^n/100f	(t ²) 4.495/8.234
Tripping		Mud Received	0	High Gravity	/	Bit Loss (psi / %)	/ 1
Non-Productive Tim	1	Dumped	685	Average SG		Bit HHP (hhp/HS	SI) / 1
Condition Hole		Shakers	14	Brine SG		Bit Jet Vel (m/s)	,
Cementing		Evaporation	0	Solids Corr/CaCl2		Ann. Vel DP (m/s)	
Running Casing		Centrifuge	0			Ann. Vel DC (m/s)	
		Formation	0			Crit Vel DP (m/s)	
		Left in Hole	0			Crit Vel DC (m/s)	
		Sweeps	0			ECD @ 1720 (sp.g	gr.) 1.34
84 1 5 1	IOD / DUIO		DIO DIIONE	WAREHOUSE	DUIGNE	DAIL V COOT	OUMUL ATIVE COOT

M-I ENGR / PHO	NE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Gordon Howie	08-9302 3790			\$ 11,673.64	\$ 256,779.35



 No. 17

 Date
 2/07/2005
 Depth/TVD
 1806 m / 1802 m

 Spud Date
 16/06/2005
 Mud Type
 CaCl2 Brine

 Water Depth
 69
 Activity
 Production tubing

Operator :Santos LtdField/Area :VIC P-44Report For :Ron King / Paul NardoneDescription :Gas DevlopmentWell Name :Casino 5Location :Otway BasinContractor :Diamond OffshoreM-I Well No. :

Report For: Paul Baker/Troy Williams

DRILLING AS	SEMBLY	CASING	MUD VOLUME (bbl)	CIRCULATION D	DATA
Bit Size 8.5 in		Surface	Hole	Pump Make OILWELL 1700PT	NATIONAL 12P-160
Nozzles 1/32"		30in @133m (133TVD)	453.6(Tot)/452.2(Bit)	Pump Size 6.5 X 12.in	6.5 X 12.in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap gal/stk	gal/stk
7 in	1729 m	13.625in @655m (655TVD)	1110.4	Pump stk/min	
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	gal/min
5.5 in	71 m	9.625in @1720m (1718TVD)	1562.6	Bottoms Up	
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time	
in	m	7in @1806m (1802TVD)	329	Circulating Pressure	

111	111 / 11.	i (u) 1000iii (1002	1 1 1 1 1	32)	Circulating 1 1033	uic	
	MUD PROPE	RTIES			PRODUCTS	USED LAST 24 HR	เร
Sample From		NaCl Pit 5	FloPro@20.00		Products	Size	Am
Flow Line Temp	°C						
Depth/TVD	m		1806/1802				
Mud Weight	sp.gr.	1.2@28°C	1.24@30°C				
Funnel Viscosity	s/qt		50				
Rheology Temp	°Ĉ		49				
R600/R300			58/44				
R200/R100			38/30				
R6/R3			12/10				
PV	cР		14				
YP	lb/100ft ²		30				
10s/10m/30m Gel	lb/100ft ²		1-/12/15				
API Fluid Loss	cc/30 min		5				
HTHP FL Temp	cc/30 min						
Cake API/HTHP	1/32"		1/				
Solids	%Vol		14				
Oil/Water	%Vol		/86				
Sand	%Vol		<.25		SOLIDS EQUIP	Size	Hr
MBT	lb/bbl		<2.5		VSM Shaker 1	2 x 180, 2 x 14	0
pH		8.9	9.7		VSM Shaker 2	4 x 200	0
Alkal Mud (Pm)					VSM Shaker 3	2 x 180, 140, 1	0
Pf/Mf					VSM Shaker 4	3 x 200, 1 x 23	0
Chlorides	mg/l	158000	148000		Centrifuge		0
Hardness Ca	mg/l				D-Silter		0
KCl	% wt		6.5				
Sulphite Excess	ppm						
Idcap	ppb						
LSRV	0.3rpm					•	
	E				MUD PROPER	RTY SPECIFICATIO	NS
					Weight	1.22	
					Viscosity		
					Filtrate		

REMARKS AND TREATMENT

No mud or brine treatment.

REMARKS

RIH to jet clean BOP stack. Rig up to run production tubing. Received total 677 bbls NaCl brine from Far Grip and 35.97 mt Gel.

TIME DISTR L	ast 24 Hrs MUD VOL AC	CCTG (bbl)	SOLIDS ANALYSIS	S (%/lb/bbl)	MUD RHEOL	OGY & HYDRAULICS
Rig Up/Service	Oil Added	0	CaCl2	/ 6.1	np/na Values	0.383/0.271
Drilling	Water Added	0	Low Gravity	/	kp/ka (lb•s^n/100f	(t ²) 4.495/8.234
Tripping	Mud Received	0	High Gravity	/	Bit Loss (psi / %)	/ 1
Non-Productive Tim	Centrifuge	0	Average SG		Bit HHP (hhp/HS	SI) / 1
Condition Hole	Formation	0	Brine SG		Bit Jet Vel (m/s)	·
Cementing	Left in Hole	0	Solids Corr/CaCl2		Ann. Vel DP (m/s)	
Running Casing	Sweeps	0			Ann. Vel DC (m/s)	
-	Dumped	424			Crit Vel DP (m/s)	
	Shakers	0			Crit Vel DC (m/s)	
	Evaporation	0			ECD @ 1720 (sp.g	gr.) 1.34

M-I ENGR	PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Gordon Howie	08-9302 3790			\$ 0.00	\$ 256,779.35

SECTION 11: CASING & CEMENTING SUMMARY



CASING AND CEMENTING REPORT

FORM DMS F220

Well Name:

Casino-5

<u> </u>			0.1.1	_	121	O		1_		
Casing Type: Hole Size:		ce Casing	Originated By		King	Checked By:	0.00~	Date:		Jun 2005
	17.50i		Total Depth:	665.	.UIN	GL-RT:	0.00m	Contracto		well nlumberger
PRE-FLUSH	20.0bbl @					SPACER	0.0bbl @ 0.00ppg	9		
Additives:	Green Flu	orescent Dye				Additives:	T			
CEMENT							ADDITIVES		% Amount	t Units
LEAD SLURRY:				00sx			B0.45 .47			.,
Brand / Class:			ABC				D047 antifoam		0.010	gal/s:
Slurry Yield:				ft³/sx			D075 Extender		0.420	gal/s
Mixwater Req't:				5gal/sx						
Actual Slurry Pur	mped:			0bbl						
Density:	5).			0ppg 						
Cement Top (MD):		90.0							
TAIL SLURRY:				00sx			D047		0.040	1/
Brand / Class:			ABC				D047 antifoam		0.010	gal/s
Slurry Yield:				ft³/sx						
Mixwater Req't:	mnod:			gal/sx						
Actual Slurry Pur Density:	mpeu:		91.0							
•	3 \.			0ppg						
Cement Top (ME DISPLACEMEN			505.	Um	Fluid: Coough	tor @ 0 40nna				
	_		070 Obbl		Fluid: Seawai	ter @ 8.40ppg	:46.	600.00		
Theoretical Displ Actual Displ.:	1		273.0bbl	200 00 ====		Bumped Plug w Pressure Tested		600.00ps		
Displaced via:				020.00gpm		Bleed Back:	110.	3000.00p 5.0bbl	JSI	
ACTIVITY		Time/Date	Rig pumps	Poturno to	Surface: 0.0bbl n			5.0001		
		Time/Date				reflush : No Action	Tokon Comon	t : No Action Take	Dianlacan	ant : No Action
Start Running cs				Casing Acti Taken	ion Duning Pr	eliusii . No Actioi	Traken Cemen	IL. NO ACTION TAKE	Displacell	nent : No Action
Casing On Botto Start Circulation	OCTI	17:10 19 Jun (ne.	Top Up Job	run: No		0.00s	x of class		
Start Pressure To	oot	17:10 19 Juli 0	J3	Wiper Plug	Top: Yes					
Pump Preflush	esi	18:00		Wiper Plug	Bottom: Yes					
Start Mixing		18:11		Plug Set:	Manufad	cturer: Dowell	Type:	Deep Sea Expres	SS	
Finish Mixing		19:12		Centralizer	Type: Weatherfo	ord		alizer Placement	Depth: Middle of	float shoe and
Start Displacing		19:12					float	collar joints		
Stop Displ./Bump	n	19:45								
Pressure Test	Р	19:55								
ressure rest			ASING AND E		DETAILS					
				Stick Up	<i>BE174120</i>				85.50m	
No. Joints	OD	W	/t	Grade	Com	nment	Thread	Length	From	То
1	18.750			0.000	18.75" WH c/v	v 16" DQ HD90 Stab Box	HD90 Quick Stab	8.2m	85.5m	93.7m
1	16.000	in 0.0lk	os/ft		16" HD90 Quicl	k Stab x 13.375" K/Over	HD90 Quick Stab x 13.375 BTC	1.9m	93.7m	95.6m
45	13.380	in 0.0lb	os/ft	L80			BTC	533.5m	95.6m	629.1m
1	13.380	in 0.0lb	os/ft	L80	Float Co	ollar Joint	BTC	12.8m	629.1m	641.9m
1	13.380	in 0.0lb	os/ft	L80	Float Sh	noe Joint	BTC	12.9m	641.9m	654.8m
0	0.000ii	n 0.0lb	os/ft					0.0m	654.8m	654.8m
0	0.000ii	n 0.0lb	os/ft					0.0m	654.8m	654.8m
0	0.000ii							0.0m	654.8m	654.8m
0	0.000ii	n 0.0lb	os/ft					0.0m	654.8m	654.8m
0	0.000ii							0.0m	654.8m	654.8m
Theoretical Bouy	yed wt. of ca	asing:		0.0k	db	Bradenhead He	ight above GL:		0.0	
Casing wt. prior t				0.0k			scription / Length:			00m
Actual wt. of casi			:	0.0k		Tubing Spool Si				
_anding wt. (afte	• •			0.0k	(lb	Setting Slips:			0.0	klb
Cementing Job F	`	<u> </u>	Dye returns t	o seabed @	180 bbl displace d @ 238 bbl displ	ment				



CASING AND CEMENTING REPORT

FORM DMS F220

Well Name:

Casino-5

	iaiiic.		1			01 1 15		In.,			
Casing Type:		ction Casing	Originate		Pat King	Checked By:	Jeff Thomso			Jun 2005	
Hole Size:	12.25i		Total Dep	otn:	1730.0m	GL-RT:		Contrac		veii nlumberger	
PRE-FLUSH	10.0bbl @					SPACER	Obbl @ Oppg				
Additives:	Fluorescei	nt dye				Additives:					
CEMENT							ADDITIVES		% Amount	Units	
LEAD SLURRY:				144sx							
Brand / Class:			,	'G			2	gallons			
Slurry Yield:			:	2.23ft ³ /sx				60	gallons		
Mixwater Req't:				13.18gal/sx	(D110		25	gallon	
Actual Slurry Pur	nped:			57.0bbl							
Density:				12.50ppg							
Cement Top (MD)):			1320.0m							
TAIL SLURRY:			:	225sx							
Brand / Class:			,	'G			D193		56	gallons	
Slurry Yield:				1.16ft³/sx			D145A		18	gallons	
Mixwater Req't:				5.15gal/sx			D047		2	gallons	
Actual Slurry Pur	mped:			47.0bbl							
Density:				15.80ppg							
Cement Top (MD)):			1570.0m							
DISPLACEMENT	<u> </u>				Fluid: drillin	g fluid @ 10.40ppg					
Theoretical Displ	.:		408.0bbl			Bumped Plug w	ith:	1000psi			
Actual Displ.:			406.0bbl	@ 400gpm	1	Pressure Teste		4000psi			
Displaced via:					pumps (remainder) Bleed Back:		5.5bbl			
ACTIVITY		Time/Date	<u> </u>			.0bbl mud, 0bbl cmt					
Start Running cs	a.				ng Action During	Preflush : No Action	n Taken Cemer	nt : No Action Tak	en Displacem	ent:	
Casing On Botto		09:55 hrs			Jp Job run: 0			of class	·		
Start Circulation		10:00 hrs			r Plug Top: Yes						
Start Pressure To	2St	14:33			r Plug Bottom: Yes						
Pump Preflush		14:25		Plug	_	ufacturer: Dowell	Type	: Deep Sea Expr	255		
Start Mixing		15:03 hrs			alizer Type:	aradiaror. Bowon		ralizer Placement			
Finish Mixing		15:27 hrs			anzor Typo.		Con	ranzor i laccinioni	. Ворин		
Start Displacing		15:40 hrs									
-											
Stop Displ./Bump)	16:30 hrs									
Pressure Test		16:37 hrs	240120 44	ID FOLUDA	MENT DETAIL O						
			CASING AI		MENT DETAILS				00.00		
				Stick U			-		86.36m	_	
No. Joints	OD		Nt "·	Grade		Comment	Thread	Length	From	То	
2	10.75i		os/ft	L80	Casing Ha	nger & 10-3/4" Pup Joint	Vam Top	2.04m	86.36m	88.4m	
7	10.75i		ilbs/ft	L80			Vam Top	83.19m	88.4m	171.59m	
1	10.75i		ilbs/ft	L80	10-3/4"	x 9-5/8" X-Over	Vam Top	12.76m	171.59m	184.35m	
109	9.63ir	471	bs/ft	L80			Vam Top	1294.11m	184.35m	1478.46m	
1	9.63ir	471	bs/ft	L80	.80 9-5/8" Vam Top x KS Bear Van X-Over			11.81m	1478.46m	1490.27m	
16	9.63ir	471	bs/ft	13Cr80					1490.27m	1682.05m	
1	9.63ir	471	bs/ft	13 Cr80				12.39m	1682.05m	1694.44m	
1	9.63ir	n 47l	bs/ft	L80					1694.44m	1706.68m	
1	9.63ir	n 47l	bs/ft	L80 9-5/8" Shoe Joint 13.11m 1706.68m 17						1719.79m	
0	0in	Olk	os/ft					0m	1719.79m	1719.79m	
				Bradenhead He	ight above GL:		0m				
Casing wt. prior t	o landing o	sg:			0klb	Bradenhead De	scription / Length:		/ On	n	
Actual wt. of casi	ng (last joir	nt run-block wt):		Oklb						
Landing wt. (afte	r cementing	g and pressure	bleed off)		Oklb	Setting Slips:			Okit)	
Cementing Job F	Remarks:										

SECTION 12: MUDLOGGING WELL REPORT



FINAL WELL REPORT

Prepared by



Geoservices Overseas S.A.

Geoservices Overseas S.A. Unit 1, 6 Somerset Circuit Lonsdale, S.A. 5160

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E-mail: geosrv.adl@bigpond.com.au

Santos Ltd. Santos House 91 King William Street Adelaide, S.A. 5000



Ltd

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B.	Formation Evaluation Log	Scale 1:500
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E.	Pressure Evaluation Log	Scale 1:2500

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1.0 WELL DATA SUMMARY

(All depths are measured depths from rotary table (MDRT) unless otherwise specified.)

Well Name : Casino 5
Basin : Otway
Permit : VIC P-44
Operator : Santos Limited
Drilling Rig : Ocean Patriot

Well Classification : Vertical Gas Producer

Surface Location

Latitude : 38° 47' 43.68" S Longitude : 142° 44' 44.60" E Easting : 651 604.4 m E Northing : 5 704 473.1 m N

Depth Reference : L.A.T. (lowest astronomical tide)

Water Depth : 68.2 m Rotary Table : 21.5 m Rotary Table to Seabed : 89.7 m

Casing Data : (1) 762/508 mm (30"/20") casing shoe at 132 m

: (2) 340 mm (13.375") casing shoe at 655 m. : (3) 244 mm (9.625") casing shoe at 1719.8 m

Hole Size : (1) 660 mm (26") + 914 mm (36") hole opener

from 89.7 m to 133.0 m

: (2) 445 mm (17½") hole from 133 m to 665 m : (3) 311 mm (12¼") hole from 665 m to 1730 m : (4) 216 mm (8½") hole from 1730 m to 1806 m

Mud Type : (1) Seawater / Pre-Hydrated Gel Sweeps

: (2) Seawater / Pre-Hydrated Gel Sweeps

: (3) Seawater & KCL / Polymer

: (4) Flo-Pro

Offset Wells : Casino 2 (150m)

Proposed Total Depth : 1788 mRT MD (1788 m TVD RT) Actual Total Depth : 1806 mRT MD (1802 m TVD RT)

Subsea Vertical Depth : 1780.5 m TVDSS Date arrived on Location : 14th June 2005 Date Rig Released : 8th July 2005

Date Spudded : 19:00 hours, 16th June 2005 Date TD Reached : 19:00 hours, 28th June 2005

Well Status : Cased & Suspended

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2.0 GENERAL INFORMATION

2.1 Executive Summary

Casino 5 was drilled to develop the gas reserves of the Waarre C reservoir via a vertical well located near the crest of the reservoir. This field is located in the Otway Basin, licence VIC P-44. The closest well to Casino 5 is Casino 2 (150 m). The Diamond Offshore semi-submersible rig 'Ocean Patriot' was used to drill this well.

Casino 5 was spudded at 19:00 hours, on 16th June 2005, with a 660mm (26") bit attached to a 914mm (36") hole opener. The 914mm hole was drilled to a depth of 133 m and the 762/508mm (30"/20") conductor was cemented in place at a depth of 132 m.

A 445mm (17.5") bit and BHA was made up and RIH, the conductor shoe track was drilled out, and 444mm hole was drilled to a depth of 665 m. A wiper trip was done back up to the conductor shoe at 132 m, due to tight hole while pulling out. The 340mm (13.375") casing was run in hole and cemented with the shoe depth set at 654m.

A 311mm (12.25") bit (#3) and BHA was run in hole, and after tagging cement at 633 m, the cement was drilled out, plus the shoe-track and 3 m of new hole to 668 m. An LOT was then performed at 668 m: EMW 2.08sg (17.36 ppg) before drilling continued. A vertical hole was then drilled with a 311mm bit from 665 m to 994 m using seawater with PHG sweeps during each stand and at connections. The hole was then displaced to KCl mud on the fly from 994 m to 1009 m and drilling continued down to 1160 m. Shortly after entering the Massacre Shale, this bit was then pulled out of hole and replaced with a PDC bit (#4RR). This bit was then run in hole and drilling of the 311mm hole continued with periodic surveys until 1392 m, when the bit was pulled due to low ROP – bit balling. This bit was then replaced with bit #5, and drilling of the 311mm hole continued at a faster rate from 1392 m to 1730 m. The section was terminated at this point and the bit was pulled from the hole with some resistance. A wiper trip was performed to the shoe before the bit was pulled to surface. The 244mm (9.625") casing was then run in hole and cemented with the shoe at 1719.8 m.

An 216mm (8.5") bit (#6) and was then made up and used to drill out the shoe track before the well was displaced with the new Flo-Pro mud system. The well was then drilled vertically through the Waarre C Sandstone where a significant gas show was encountered. Casino 5 was then terminated at 1806 mMD on the 28th June 2005.

The well was then wiped clean without problem and was displaced to CaCl2 brine. The lower completion assembly was run into the hole and set with the shoe at 1800.45 m. The upper casing was then scraped clean and the well was displaced with brine. The upper completion assembly was then landed in place, and the well was displaced to diesel prior to well testing. The riser and BOPs were then removed, the well was capped, and anchors were pulled prior to moving off location.

No electric logs were run at the end of this well.

Geoservices provided a full mudlogging service from spud to TD during this well. This service included 'Reserval' gas monitoring and real-time online data transmission.

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2.2 Geoservices Personnel

ALS Engineers : Adderley, David

: Dunn, Alan: Prosser, Scott

Mudloggers : Elliott, Noel

: Foreman, Brent

Sample Catchers : Dower, Leigh

: Djukanovic, Alex

2.3 Contractor Information

Drilling : Diamond Offshore
Rig name : Ocean Patriot
Rig type : Semi-Submersible

Mudlogging : Geoservices Overseas S.A.

Mud engineering : M.I. Swaco MWD : Sperry Sun Wireline logging : Baker Atlas

Cementing : Dowel Schlumberger

Well head completion : Cameron
ROV : Fugro
Casing : Weatherford
Work boats : Far Grip, Wrangler

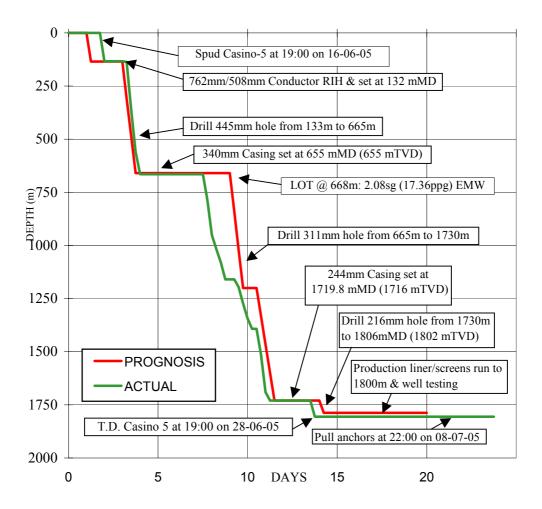
Helicopters : Bristows Catering : E.S.S.

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2.4 Days versus Depth Progress Chart



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2.5 Sample Collection Summary

Six sets of washed and dried samples and three sets of samplex trays were collected during Casino 5, from 665 m to TD at 1806 m.

From 665m to 1644m, the Sampling interval was 6m and From 1647 m to the TD at 1806 m, the sampling interval was 3m

Sample distribution was as follows:

Recipient	Washed a	nd Dried	Samplex Trays	
	100 g	200 g		
Santos	2		1	_
Geoscience Australia		1		
D.N.R.E.		1		
A.W.E.	1		1	
Mitsui	1		1	

Mud samples were also collected at 1730m (12.25" section) and at 1806m (8.5" section).

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3.0 GEOLOGICAL INFORMATION

3.1 Lithology and Show Summary

From spud to 665 m returns were to the sea floor.

Trom space to oc	Tom sput to 005 in returns were to the sea noor.											
	[]				Drilling Parameters:							
665-681 m				WOB: 8-18 klbs MF: 820-990 gpm								
RP				RPM: 70-30 SPP: 1800-2560 psi								
					TRQ: 2.5	9-3.5 klb*	ft			•		
Lithology	Lithology description		ROP m/	hr	Depth	Total	C1	C2	C3	iC4	nC4	C5
		ave.	max.	min.	m	Gas U	ppm	ppm	ppm	ppm	ppm	ppm
CALCAREOUS	Medium brownish grey-medium brown, argillaceon	20.5	45.9	8.9	665-68	0	0	0	0	0	0	0
SILTSTONE	grading to CALCAREOUS CLAYSTONE, commo											
	forams, firm, sub blocky.											

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681-775.5 m					Drilling I WOB: 8- RPM: 11 TRQ: 3.5	0-130			960-1020 : 2330-280	Ci		
Lithology	Lithology description		ROP m/	hr hr	Depth	Total	C1	C2	C3	iC4	nC4	C5
		ave.	max.	min.	m	Gas U	ppm	ppm	ppm	ppm	ppm	ppm
SANDSTONE	Yellow orange brown Fe stain, translucent, clear in parfine to coarse predominantly medium, sub angular predominantly sub round, trace very coarse fracture quartz grains, trace lithics, poor sorting, trace foram predominantly loose quartz grains, good inferred porosity, no fluorescence.		150.2	8.9	681-775	0-0.6	0-104	0	0	0	0	0
SILTSTONE	Medium brownish grey-medium brown, argillaceous grading to CALCAREOUS CLAYSTONE, commo forams, firm, sub blocky.											

Drilling Parameters:

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775.5-1007 m			WOB: 3-20 klbs				MF: 980-1050 gpm					
					RPM: 90	1-135)-6.2 klb*f	ì	SPP:	2570-320	00 ps1		
Lithology	Lithology description		ROP m/	hr	Depth	Total	C1	C2	C3	iC4	nC4	C5
23		ave.	max.	min.	- · I	Gas U	ppm	ppm	ppm	ppm	ppm	ppm
SANDSTONE	Clear to translucent, common orange yellow to modera	30.8	166.5	2.7	775.5-	0-1.0	0-186	0	0	0	0	0
	brown Fe stain, predominantly medium, trace coargrains, moderately well sorted, angular to sub angul occasional sub rounded, trace sideritic cement, rare trace siliceous cement, rare pyrite, loose clean quargrains, good inferred porosity, no fluorescence.				1007							
CLAYSTONE	Brownish black to dusky brown, slightly arenaceou common carbonaceous, common disseminated pyrit moderately hard, sub blocky to blocky.											

1007-1083 m	1007-1083 m					Drilling Parameters: WOB: 19-27 klbs RPM: 100-150 TRQ: 3.7-4.7 klb*ft MF: 900-1005 gpm SPP: 2200-2900 psi						
Lithology	Lithology description		ROP m/	/hr	Depth	Total	C1	C2	C3	iC4	nC4	C5
		ave.	max.	min.	m	Gas U	ppm	ppm	ppm	ppm	ppm	ppm
SANDSTONE	Clear-translucent to pale grey, fine-coarse, occasional very coarse, sub-rounded-angular, poorly sorted, we siliceous cement, common disseminated pyri inclusions, trace nodular pyrite, loose, clean, goo inferred porosity, no fluorescence.		31.4	4.7	1007- 1083	0-0.2	0-39	0	0	0	0	0
CLAYSTONE	Brownish black to dusky brown, trace carbonaceous specks & laminations, trace disseminated pyrite, silty part, sub-blocky to amorphous, sticky & dispersive.											

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1083-1151 m					WOB: 14 RPM: 13	Parameters 4-24 klbs 0-155)-7.4 klb*1		MF : 960-1005 gpm SPP: 2570-2830 psi				
Lithology	Lithology description	İ	ROP m/		Depth		C1	C2	C3	iC4	nC4	C5
SANDSTONE	Clear, translucent, white medium to very coarse grain predominantly medium to coarse, fair to poor sorting, su rounded to sub angular, siliceous cement, rare glauconit rare pyrite, predominantly loose clean quartz grain good inferred porosity, no fluorescence.		max. 112.5	min. 6.2	1083- 1151	Gas U 0-2.8	ppm 4-377	0-2	ppm 0	ppm 0	ppm 0	0 0
SILTSTONE	Greyish dark grey to olive black, argillaceous, grading Silty CLAYSTONE, trace nodular and disseminate pyrite, trace glauconite, trace lithics, soft to dispersive sub blocky.											
CLAYSTONE	Brownish black to dusky brown, silty in part grading argillaceous siltstone, trace carbonaceous specks, min nodular and disseminated pyrite, trace glauconite, sublocky to amorphous, soft to dispersive.											

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1151-1162 m					Drilling Parameters: WOB: 8-21 klbs RPM: 130-155 TRQ: 4.3-5.3 klb*ft MF: 970-1005 gpm SPP: 2600-2860 psi							
Lithology Lithology description ROP m/hr				Depth	Total	C1	C2	C3	iC4	nC4	C5	
		ave.	max.	min.	m	Gas U	ppm	ppm	ppm	ppm	ppm	ppm
SANDSTONE	Clear, translucent, yellow grey in parts, fine to coars poor sorting, sub rounded, weak siliceous cement, trac argillaceous matrix, trace nodular pyrite, predominant loose, trace hard aggregates, poor to fair inferre porosity, no fluorescence.		100.1	18.2	1151- 1162	1.0-2.5	126-40	0-1	0	0	0	0
SILTSTONE	Olive grey to olive brown, argillaceous, trace to commo disseminated pyrite, rare carbonaceous micro speck firm to soft in parts, amorphous to sub blocky.											

1162-1355 m	1162-1355 m WC RP TR					Drilling Parameters: WOB: 2-18 klbs RPM: 100-180 TRO: 4.0-6.6 klb*ft MF: 975-1020 gpm SPP: 2800-3150 psi						
Lithology	Lithology description		ROP m/	hr	Depth	Total	C1	C2	C3	iC4	nC4	C5
		ave.	max.	min.	m	Gas U	ppm	ppm	ppm	ppm	ppm	ppm
SANDSTONE	Clear, translucent, white to light grey, fine to mediur trace coarse, fair sorting, sub angular to sub rounde weak siliceous cement, trace to rare nodular pyrite, trac lithics, trace fine grained glauconite, predominant loose, poor to fair inferred porosity, no fluorescence.		78.6	3.6	1162- 1355	0.5-2.0	64-398	0-5	0-2	0	0	0
SILTSTONE	Olive grey to olive brown, predominantly arenaceou occasionally argillaceous, minor glauconite, traccarbonaceous specks, soft, amorphous to sub blocky.											
							Drilling Parameters:					

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1355-1498 m					WOB: 6- RPM: 11				MF : 965-990 gpm SPP: 3050-3300 psi			
					TRQ: 3.7	7-8.0 klb*	ft					
Lithology	Lithology description		ROP m/	hr	Depth	Total	C1	C2	C3	iC4	nC4	C5
		ave.	max.	min.	m	Gas U	ppm	ppm	ppm	ppm	ppm	ppm
SILTSTONE	Moderately brown to light brown, predominant argillaceous, very fine arenaceous in parts, trace mic carbonaceous specks, trace disseminated pyrite, soft firm, rare moderately hard, sub-blocky to amorphous.		123.5	2.5	1355- 1498	1.5-13.0	139-239	0-19	0-7	0-5	0-3	0-2
SANDSTONE	Clear, translucent, white, fine to medium quartz grain fair to moderate sorting, sub-angular to predominant sub-rounded, trace fine grain glauconite, trace nodul pyrite, loose, fair to good inferred porosity, a fluorescence.											

1498-1746 m					WOB: 6- RPM: 15				870-970 g 3080-332	-1		
Lithology	Lithology description		ROP m/	hr	Depth	Total	C1	C2	C3	iC4	nC4	C5
		ave.	max.	min.	m	Gas U	ppm	ppm	ppm	ppm	ppm	ppm
SILTSTONE	Olive brown, medium brownish grey, occasional greenish grey, argillaceous grading to Sil CLAYSTONE in parts, minor fine-grained glauconi firm to occasionally moderately hard, sub blocky.		129.5	15.8	1498- 1746	8.3-35.	1109- 6439	11-99	3-11	2-6	0-4	0-4
SANDSTONE	Translucent, clear, white, fine to medium grained, su angular to predominantly subrounded, moderately stror siliceous cement in parts, predominantly loose quar grains, good inferred porosity, no fluorescence.											

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1746-1806 m (T.D.)					Drilling Parameters: WOB: 1-10 klbs RPM: 95-155 TRQ: 4.1-9.7 klb*ft MF: 640-700 gpm SPP: 2110-2465 psi							
Lithology	Lithology description		ROP m/	hr	Depth		C1	C2	C3	iC4	nC4	C5
		ave.	max.	min.	m	Gas U	ppm	ppm	ppm	ppm	ppm	ppm
SANDSTONE	Clear, translucent, light grey in parts, predominantly fit to coarse, occasionally very coarse, poor to fair sortin sub-rounded to sub-angular, trace white argillaceous matrix, trace nodular pyrite, predominantly loose clear quartz grains, good inferred porosity, no fluorescence.		56.7	11.1	1746- 1806	12.4- 729.7	2259- 107544	41-228	10-585	2-90	3-91	1-21
SILTSTONE	Medium dark brown, olive brown, argillaceous, ra nodular pyrite, trace fin grained glauconite, trace mic carbonaceous specks, trace forams, firm to moderate hard, sub-blocky.											

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3.2 Gas Ratio Interpretation – Introduction

Gas composition and total gas in mud were measured using the Geoservices Reserval (A combined total gas detector and chromatograph coupled with a GZG degasser). As a backup gas detection system a Geoservices FID Chromatograph Panel (FCP) and FID Gas Panel (FGP) were in place. Both use the FID technique of measuring ions released when hydrocarbons are burnt in a pure hydrogen flame.

Gas is extracted from the mud at the shale shakers by a degasser that is essentially an agitator inside a chamber through which the mud continually passes. The GZG degasser is specially designed to degas a constant volume of mud regardless of pump rates and has the advantage of being placed as close to the flowline as possible. The gas is then drawn back to the unit through tubing to the gas analysis equipment. Independent sensors in the unit also measure H2S and CO2.

The composition of the gas in mud from the formation is significant in determining the geochemical origin and value of a show. There are several methods that can be used to determine whether the hydrocarbon gas in mud comes from a potential gas or oil zone. Amongst these methods are the Triangle Diagram (also known as the gas composition diagram), Pixler Diagram (also known as the gas ratios method) and the gas Wetness/Balance/Character plots.

3.3 Explanation of Gas Composition Diagrams

The Triangle or Gas Composition Diagram is used to graphically represent the hydrocarbon distribution in the gas and to determine whether it corresponds to a gas or oil reservoir. The triangular diagram is obtained by tracing lines on three scales at 120° to each other, corresponding respectively to the ratios of ethane, propane and normal butane to the total gas. The scales are arranged in such a way that if the apex of the triangle is upward, the diagram represents the analysis of gas from a gas zone, while if the apex points downwards, the diagram represents the analysis of gas from an oil zone. A large triangle diagram represents dry gas or low GOR oil, while small triangles represent wet gases or high GOR oils. The centre of the triangle should fall inside the area delineated by the dotted line, which encircles compositions that are regarded as 'normal'. If the triangle area is outside this area the gas indicates that the reservoir is not exploitable and that the heavier hydrocarbon composition is 'abnormal' i.e. hydrocarbons that are chemically altered or gases with special compositions which are not associated with oil.

The Gas Ratio Analysis Diagram is a plot of the ratio of C1 to the other gas elements. The magnitude of the methane to ethane ratio determines if the reservoir contains gas or oil or if it is non-productive. The following conclusions are possible:

Ratio C1/C2: < 2 non-productive zone

2 - 15 oil present 15 - 65 gas present

> 65 non-productive zone

The slope of the line of the ratio plot of C1/C2, C1/C3, C1/C4 and C1/C5 indicates whether the reservoir will produce hydrocarbons or hydrocarbons and water. Positive line slopes indicate production; negative line slopes indicate water-bearing formations. When using the Gas Ratio Diagram, the following points should be borne in mind:

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- 1. Productive dry gas zones may show only C1, but abnormally high shows of C1 are usually indicative of saltwater zones.
- 2. If the ratio C1/C2 is low in the oil section and the ratio C1/C4 is high in the gas section, the zone is probably non-productive.
- 3. If any ratio (C1/C5 excepted in an oil based mud) is lower than the preceding ratio then the zone is probably non-productive.
- 4. The ratios may not be definitive for zones of low permeability.
- 5. Steep gas ratio plots may be indicative of tight zones.

3.4 Explanation of Wetness/Balance/Character Curves

Another method for evaluating gas zones plots against depth three ratios: hydrocarbon Wetness (W_h) , hydrocarbon Balance (B_h) and hydrocarbon Character (C_h) , where:

$$W_{h} = \frac{(C2 + C3 + C4 + C5)}{(C1+C2+C3+C4+C5)} \times 100 (\%)$$

$$B_{h} = \frac{(C1 + C2)}{(C3 + C4 + C5)}$$

$$C_{h} = \frac{(C4 + C5)}{C3}$$

Wetness (W_h) is the primary zone indicator and provides a measure of the relative proportion of heavier gases in the overall gas show as follows:

$W_h < 0.5$	Light non-associated gas with low productivity potential or
$0.5 < W_h < 17.5$	only geo-pressured methane. Potentially productive gas with gas density increasing with W_{h} .
$17.5 < W_h < 40.0$	Potentially productive oil with gravity decreasing as W_h increases.
$W_h > 40.0$	Heavy or residual oil with low productivity potential.

As reservoir hydrocarbons become denser in the transition from gas to oil, Balance (B_h) and Wetness (W_h) values move closer together and eventually intersect. The zone guidelines for B_h combine with those for W_h to improve reliability of show evaluation as follows:

$W_h < 0.5$	Very light, dry gas that is almost certainly non-productive.
and $B_h > 100$	
$0.5 < W_h < 17.5$	Productive gas with gas increasing in wetness and density as
and $W_h < B_h < 100$	the two curves converge.
$0.5 < W_h < 17.5$	Productive gas condensate or a high gravity gas/oil ratio.
and $B_h < W_h$	
$17.5 < W_h < 40$	Productive oil with oil gravity decreasing - density
and $B_h < W_h$	increasing as the curves diverge.
$17.5 < W_h < 40$	Non-productive residual oil.
and $B_h > W_h$	

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Character (C_h) values serve to resolve ambiguities between oil or gas indications by defining the following:

$$\begin{array}{ll} 0.5 < W_h < 17.5 & \text{Productive wet gas or condensate.} \\ \text{and } B_h < W_h & \\ \text{and } C_h < 0.5 & \\ \\ 0.5 < W_h < 17.5 & \text{Productive high gravity and/or high GOR oil.} \\ \text{and } B_h < W_h & \\ \text{and } C_h > 0.5 & \\ \end{array}$$

It is important to note that in the conclusion to each of the interpretive tools, the terms 'productive' and 'non-productive' are used in a geochemical sense. Ultimate production of a zone is dependent upon reservoir thickness and extent as well as other physical and economic factors that are not taken into account when analysing gas compositions. The methods discussed here are intended to assist the interpretive skills of the geologist or log analyst. Please refer to the Gas Ratio Log enclosure.

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3.5 Gas Composition Discussion

Gas monitoring commenced using the Geoservices Reserval from the beginning of the $311 \text{mm} (12\frac{1}{4})^{2}$ phase at 665 m, through to well TD of 1806 m.

From 665m to 994m, drilling proceeded using seawater and PHG sweeps. These formations consist of predominantly sandstone with minor claystone lenses, and gas levels during drilling were negligible at 0 to 1 units, consisting entirely of methane.

At 994 m, the KCl mud system was introduced and the remainder of the 311mm section was drilled with mud weights gradually increasing from 1.21 to 1.25 SG. Drilling continued, encountering only traces of C1, then through the sandstones to 1151 m (1128.5 m TVDSS) producing a maximum gas level of 8 units at a ratio of 100% C1with traces of C2. The Massacre Shale and Timboon Sandstone were then drilled with the maximum gas level reaching only 2 units at a 99/1/Tr ratio.

Soon after drilling into the predominant siltstones at 1355 m (1331.5 m TVDSS), a minor technical fault with the Reserval gas panel caused its temporary replacement by the FCP/FGP gas detection system as the primary gas detector during drilling from 1391 m to 1439 m. Due to the continuing low levels of gas encountered in this section, this temporary substitution in gas equipment did not result in any marked change in gas interpretation, with the maximum gas reading encountered during the drilling of the Parratte and Skull Creek formations being 35 units in a 98/2/Tr/Tr/Tr C1 to C5 ratio at 1628 m. Background levels in the interval from 1355 m to 1730 m rose slightly from 2 to 8 units, and this was largely due to an increase in the rate of penetration.

The short 216mm (8½") hole section was drilled from 1730 m to T.D. at 1806 m, with the only formation change being the change from the Skull Creek Mudstone to the Waarre Formation at 1746 m. Gas levels in the Skull Creek were low, which is to be expected in a mudstone, with total gas levels ranging from 9 to 12 units. As the Flo-Pro mud was new at this time there was also no gas being re-circulated through the system.

Within the pay zone, significant gas levels were recorded with the maximum gas being 729.7 units from the sandstone at 1777 m. The breakdown of this gas was a ratio of 97/2/1/Tr/Tr, which was typical of the ratios throughout the well, and was also to be expected given that the Casino field is a gas field.

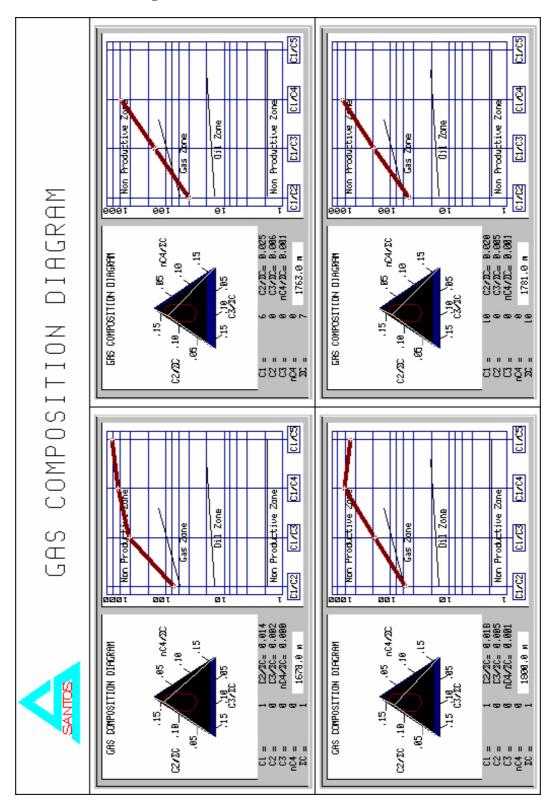
By T.D. at 1806 m the gas levels had dropped back to 18 units and this was in a predominately Siltstone zone. Through the pay zone and the latter parts of the well there were small amounts of C4's and C5's present but they were only recorded in trace amounts. The mud weight throughout this section was maintained at close to 1.24sg and there was no connection gas or trip gas recorded at all in the well.

The gas diagrams on the next page, while indicating a gas from a "Non Productive Zone", they do show the dry composition of this predominantly methane rich zone. No H2S or CO2 gas of any significance where recorded while drilling Casino 5.

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3.6 Gas Ratio Diagrams



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4.0 Pressure Analysis

4.1 Pressure Summary

Formation pressures were monitored throughout this well by recording a range of indicators, which vary from direct observations of background gas and cuttings, to drilling characteristics such as torque, drag when coming off bottom, incorrect hole fill when tripping, as well as mud properties such as flowline temperature. The Geoservices D'Exponent package is also used as a tool in the determination of abnormal formation pressures.

D'Exponent: The D'exponent trend was set in the Parratte and Skull Creek formations and the D'exponent values appeared to follow this trend right down to TD, with the occasional shift to the left being due to the sands encountered. A notable shift to the right can be seen from about 1250m to 1392m (1227m to 1369m TVDSS) towards the end of the bit run for Bit #4RR, and, rather than indicating increased compaction, this is due to bit-balling. The D'exponent does not indicate any undercompacted / overpressured claystones in this well.

The coefficients used in this well were:

a = 0.001369, b = -0.3370551, Sand Line b offset = -0.0360000

Gas: This well was drilled with an overbalanced mud system (1.21-1.27 SG), as a result of which no connection or trip gases were recorded. The minor increase in background gas in the Siltstone was ROP related, with other significant increases in gas relating to the pay sands. One can conclude from the gas data, that the background gas was liberated gas and in no way produced gas (which would be the result of negative differential pressure).

Torque & Drag: No unusually high Torque was noticed while drilling and neither was any abnormal drag noticed while pulling up prior to connections

Flowline Temperature: The flowline temperature showed a steady increase from 31°C at 1034m to 55°C at 1730m. The temperature dropped prior to TD due to the change of mud system in the last hole section. Considering the presence of a riser, analysis of the flowline temperature has its shortcomings. However, there were no sudden increases in the flowline temperature to indicate an undercompacted claystone.

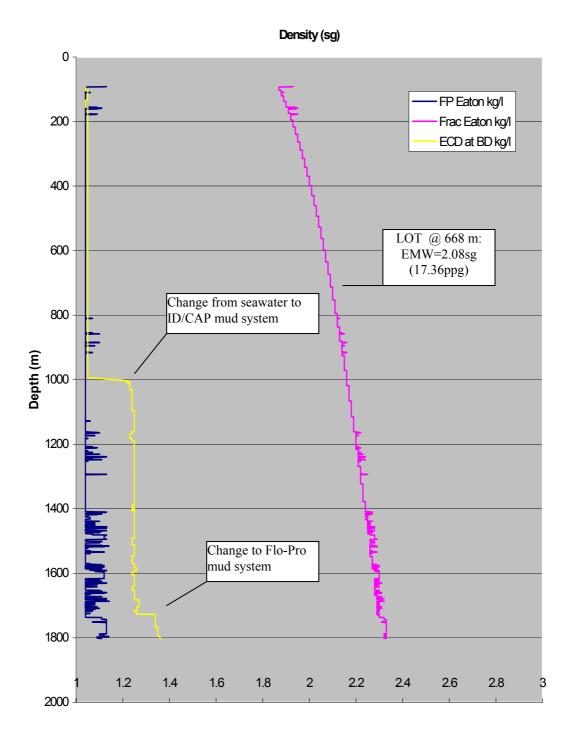
Cuttings: There were no unusually sharp splintery cavings or large cuttings with concave cross section observed at the shakers that may have indicated an abnormally pressured zone in this well.

The majority of indicators pointed to a normally pressured environment from surface to TD while drilling Casino-5.

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4.2 Formation Pressure Plot



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5.0 <u>DRILLING INFORMATION</u>

5.1 Mud Record Casino 5

From spud down to 994 m the well was drilled with seawater and PHG sweeps, down to 665 m returns were to the sea floor. From 665 m to 994 m returns were to surface but they were then dumped. Between 994 m and 1009 m the well was displaced over to KCL / IDCAP mud on the fly. The KCL / IDCAP mud was used down to the T.D. of the 311mm (12¼") section at 1730 m. The MW in this section was maintained between 1.21 and 1.25 sg. The 216mm (8½") section was drilled with Flo-Pro, Drill-in Fluid, with a mud weight of 1.24 sg. Properties of this mud are also listed below.

Depth m	MW sg	FV sec/qt	PV cps	YP lb/100	Gels lb/100'	WL cm/ 30		Sand %	Chlorides mg/L	Cake /32"
879	1.04	>100	10	54	38	13	2	-	750	1
1026	1.21	50	12	19	6	6 5.6		Tr	44k	1
1160	1.22	55	15	26	10	4.8	9	1	42k	1
1284	1.22	49	11	26	8	5.0	10	0.5	45k	1
1392	1.22	49	14	36	10	4.5	10	0.5	46k	1
1404	1.23	47	14	34	11	4.8	10	0.5	45k	1
1598	1.25	54	17	39	13	3.8	12	0.5	45k	1
1720	1.24	55	11	23	9	4.8	14	Tr	148k	1
1806	1.24	50	14	32	12	5.0	14	0.25	148k	1

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5.2 Bit Record – Casino 5

Bit #	Size (in	Make	Type	Jets	TFA	In (m)	Out (m	Run (m	Hrs	WOB	RPM	TORQ	SPP psi	Flow	Grading
					In ²					klbs		kft*lbs		gpm	
1	26"/36	Smith	DSJC	2x20,	1.356	89	133	44	3.1	0-4	60-85	3.4-6.8	800-1180	750-115	Ungraded
				2x22											
2	17.5"	Smith	XR+CRS	3x20,	1.169	133	665	532	11.4	10-45	100-136	2.8-5.8	2400-290	1120-	1-1-NO-A-E-I-
				1x18										1150	NO-TD
3	12.25"	Smith	GS04BDV	3x18,	1.052	665	1160	495	18.9	3-36	65-155	2.9-7.4	1760-322	820-111	4-5-WT-A-E-I-
				1x20											NO-PR
4RR	12.25"	Smith	MA89PX	7x14	1.052	1160	1392	232	15.2	7-28	110-140	3.7-8.0	3000-310	980-990	1-1-BT-S-X-I-BU
															PR
5	12.25"	Hycalog	DSX104	3x16,	0.982	1392	1730	338	7.4	6.4-19.1	130-175	4.2-7.8	3080-332	870-980	1-1-BT-T-X-I-
				2x18											NO-TD
6	8.5"	Hycalog	DSX104	3x15,	0.91	1730	1806	76	3.7	1-7	95-155	3.6-9.7	2070-246	640-695	1-1-NO-A-E-I-
				2x16											ER-TD

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5.3 Hydraulic Listing

Casino 5

Depth	Mud Weight	ECD	Flow Rate	Total Pressure	Pressure Loss Across Bit	Mud Velocity Through bit	Bit Hydraulic Power	Mud Impact at Bit	Total Hydraulic	Ratio (Bit Pwr/Total Pwr)
				Loss					Power	
(m)	(s.g)	(s.g.)	(gpm)	(psi)	(psi)	(m/sec)	(hp)	(lbf)	(hp)	(%)
879	1.04	1.08	1000	2022	730	93	431	1377	1195	36.1
1026	1.21	1.22	972	2562	803	90	461	1515	1471	31.4
1160	1.22	1.23	972	2663	810	90	465	1528	1529	30.4
1022	1.22	1.23	1022	2965	896	95	541	1689	1791	30.2
1392	1.22	1.23	920	2583	725	86	394	1368	394	28.1
1404	1.23	1.24	922	2724	844	92	459	1485	1484	31.0
1598	1.25	1.26	922	2872	858	92	467	1509	1564	29.9
1730	1.24	1.33	680	1846	538	73	216	878	216	29.1
1806	1.24	1.33	670	1850	522	72	206	852	732	28.2

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5.4 Drilling Phase Summary

5.4.1 914mm (36") Hole Section

 $\begin{array}{lll} \text{Date} & : 16^{\text{th}} \text{ June } 2005 \\ \text{Measured depth} & : 89 \text{ m} - 133 \text{ m} \\ \text{TVDSS LAT} & : 89 \text{ m} - 133 \text{ m} \end{array}$

Number of bits used : 1

Mud type : Seawater, with gel sweeps

Casino 5 was spudded at 19:00 hours, on the 16th June 2005. A 914mm (36") BHA was made up; consisting of a 660mm (26") Smith DSJC bit, and a 914mm (36") hole opener. Sea floor sediments were tagged at 89 m and 914mm hole was drilled without incident to a depth of 133 m. Gel sweeps were then pumped around the well, and the well then displaced to gel prior to rigging up for the running of 762mm (30") conductor. The bit drilled 44 m of new formation in 3.1 hours, at an average ROP of 14.2 m/hr. The bit was ungraded.

The 762mm conductor was run in hole, and cemented in place at a depth of 132 m. Hole fill was encountered below this depth and the conductor was unable to be set at the drilled TD of 133 m.

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5.4.2 445mm (17.5") Hole Section

 $\begin{array}{lll} \text{Dates} & : 18^{\text{th}} \text{ June 2005} \\ \text{Measured depth} & : 133 - 665 \text{ m} \\ \text{TVDSS LAT} & : 133 - 664.9 \text{ m} \end{array}$

Number of bits used : 1

Mud type : Seawater with gel sweeps

A new 445mm (17.5") Smith XR-CRS was made up with FEWD tools and BHA and run in hole down to the top of cement at 128 m. The shoe and cement were drilled out and new hole was drilled ahead from 133 m down to 665 m. At this point the hole was circulated clean and displaced to PHG mud, then the EMS survey tool was dropped prior to pulling out. While pulling out of hole numerous points of tight hole were encountered so the string was only pulled out to the conductor shoe at 132 m. The string was then run back to bottom at which point the hole was again circulated to PHG mud, prior to pulling out of hole. This bit drilled a total of 532 m in 11.4 on bottom hours at an average of 46.7 m/hr. This bit was graded as 1-1-NO-A-E-I-NO-TD.

At this point 49 joints of 340mm (13.375") casing was run in and set at 655 m. This was followed by the running of the Sub-Sea Xmas Tree. The BOP stack was then run and landed prior to being pressure tested.

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5.4.3 311mm (12.25") Hole Section

Dates $: 22^{nd} - 26^{th}$ June 2005 Measured depth : 665 - 1730 mTVDSS LAT : 664.9 - 1726.4 m

Number of bits used : 3

Mud type : SW / gel sweeps & KCL / IDCAP

A 311mm (12.25") Smith GS04BDV bit and associated BHA including FEWD tools was made up and run in hole down to 633 m. At this point the cement was tagged and subsequently drilled out, along with the shoe, shoe track and 3 m of new hole down to 668 m. A LOT was then performed resulting in an EMW of 2.08sg (17.36 ppg) before drilling continued. From 668 m down to 994 m the well was drilled using seawater with PHG sweeps during each stand and at connections all returns were dumped to the sea floor. At 994 m the hole was displaced to KCl / IDCAP mud on the fly down to 1009 m. Drilling then continued down to 1160 m, which was past the hard stringers of the Timboon Sandstone, at which point the bit was changed in favour of a PDC bit. This bit drilled 495 m in 18.9 on bottom hours at an average ROP of 26.2 m/hr and was graded 4-5-WT-A-E-I-NO-PR.

The next 311mm PDC bit was a Smith MA89PX and was run in with a similar BHA as previously run. This bit drilled ahead from 1160 m down to 1392 m. It was decided to pull the bit at this point due to poor rate of penetration. When the bit was at surface it was found to be balled up. This bit drilled 232 m in 15.2 on bottom hours at an average ROP of 15.3 m/hr, and was graded 1-1-BT-S-X-I-BU-PR.

The final 311mm bit was a Hycalog DSX104 bit, which was made up and run in hole to bottom. Drilling resumed from 1392 m down to the end of the 311mm section at 1730 m, which was just above the Waarre Formation target. While pulling out of the hole with this bit numerous points of tight hole were encountered. This resulted in a wiper trip being performed back to the casing shoe at 655 m. While pulling out the second time the bit came out freely. This bit drilled a total of 338 m in 7.4 on bottom hours at an average ROP of 45.7 m/hr. The grading on this bit was 1-1-BT-T-X-I-NO-TD.

This 311mm vertical section was cased off with a total of 137 joints of 273mm (10.75") and 244mm (9.625") casing. The casing required washing down to the setting depth of 1719.8 m due to excessive hole fill. The casing was then cemented as per programme.

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5.4.4 216mm (8½") Hole Section

Dates : 28th Jun 2005 Measured depth : 1730 - 1806 m TVDSS LAT : 1726.4 - 1802.0 m

Number of bits used : 1 Mud type : Flo-Pro

The new 216mm (8½") Hycalog DSX104 PDC bit was made up with the FEWD tools and BHA. This was run in hole and tagged the top of cement at 1693 m. The cement and 244mm (9.625") casing shoe were drilled out, at which point the well was displaced to the new Flo-Pro mud system. New hole was then drilled vertically from 1730 m to T.D. at 1806 m. During this section, minor tight hole was encountered at about 1746 m, but this was the only hole problem encountered in this section. The Waarre Sandstone main pay was encountered at 1757 m, with significant gas levels being recorded as expected.

At T.D. the well was circulated clean and this was followed by a short wiper trip back inside the casing shoe at 1720 m. This wiper trip encountered several points of tight hole before running back to bottom. After circulating the hole clean again, the string was pulled back to 500 m, at which point it was decided to run back to bottom and displace the well to CaCl brine, before pulling all the way out of the hole.

This 216mm bit drilled a total of 76 m in 3.7 on bottom hours at an average rate of penetration of 20.5 m/hr. The bit was graded 1-1-NO-A-E-I-ER-TD. Total depth for this well was reached at 19:00 hours on the 28th of June 2005, and no electric logging was run.

The well was prepared for production by running a completion string which included expandable sandscreens on a 194mm (7-5/8") production liner to 1800 mMD, and well testing took place on 4^{th} to 5^{th} July. The rig was officially released on 8^{th} July 2005.

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SECTION 13: RIG POSITIONING REPORT

RIG POSITION FIELD REPORT

Casino-5



Client : Santos Job Number : P0300
Rig : Ocean Patriot Date: 17-Jun-05

Project: Rig Move to Casino-5, Bass Strait

Attention : Chris Wise Santos Representative

The surface location of the drill stem on the Ocean Patriot was derived from 60 minutes of observations of Primary Differential GPS Data, between 13:38hrs and 14:38hrs on completion of anchor pre-tensioning and cemnting of the 30"casing.

The results of the observations are as follows:

Geographical Coordinates			Grid Coo	Grid Coordinates		
Latitude (φ)	-038° 47' 43.68"	South	Easting	651604.4		
Longitude (λ)	142° 44' 44.60"	East	Northing	5704473.1		

The drill stem position is **2.6 m** at a bearing of **32.8°** Grid from the design location.

The Client supplied design location for : Casino-5 .

Geographical Coordinates			Grid Co	Grid Coordinates		
Latitude (\phi)	-038° 47' 43.75"	South	Easting	651603.0		
Longitude (λ)	142° 44' 44.54"	East	Northing	5704471.0		

The Ocean Patriot's rig heading, derived from the mean of 60 minutes of gtro heading data is:

250.48° TRUE

251.58° Grid

All coordinates in this field report are quoted in the following coordinate system:

Datum: GDA94_Australia_ICSM-ITRF2005.50 Projection: Transverse Mercator (UTM)
Spheroid: GRS80 Zone (Central Meridian): 54 141° East

The approximate positions of the rig anchors corrected for catenary are as follows:

Anchor	Easting	Northing	Azimuth(°) - True
1	650170	5704836	284.0°
2	650506	5705444	312.2°
3	651945	5705927	13.1°
4	652631	5705591	43.2°
5	652829	5704244	99.8°
6	652791	5703497	129.5°
7	651345	5702979	189.1°
8	650859	5703407	215.0°

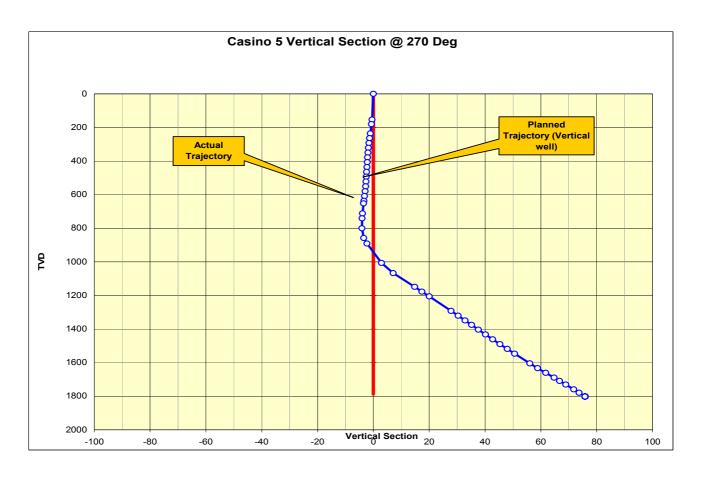
Party Chief/Surveyor:		Santos Representative :		
	lan Walker	_	Chris Wise	

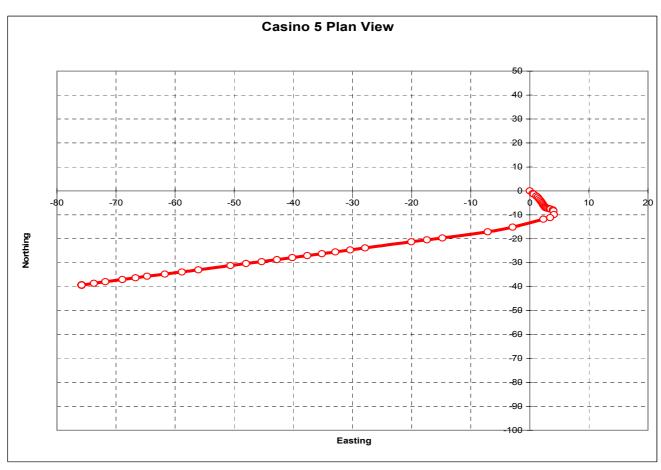
SECTION 14: DEVIATION SUMMARY

Surveys and schematics are presented overleaf.

DEVATION DATA

DEPTH	INCLINATION	AZIMUTH	DEPTH	INCLINATION	AZIMUTH
(m)	(DEG)	(DEG. T.)	(m)	(DEG)	(DEG. T.)
153.32	0.87	155.19	1067.61	5.74	249.44
180.77	0.73	150.88	1150.27	5.53	253.03
236.21	1.06	149.10	1178.55	5.52	254.47
263.92	1.31	159.82	1207.09	5.50	252.55
292.77	1.22	161.34	1294.00	5.38	250.68
321.46	1.16	161.70	1322.59	5.29	252.03
350.14	1.12	162.94	1351.22	5.31	252.31
378.70	1.03	165.33	1377.53	5.17	251.91
407.39	0.99	169.70	1406.19	5.23	251.21
436.08	0.89	162.06	1434.97	5.43	251.49
464.75	0.86	161.47	1463.79	5.42	253.43
493.60	0.87	164.24	1492.55	5.42	251.34
522.35	0.23	169.75	1521.49	5.55	253.59
551.14	0.52	129.89	1550.14	5.55	251.90
579.90	0.54	127.68	1607.59	5.88	251.40
608.62	0.51	119.52	1636.21	5.89	252.97
636.96	0.54	120.09	1664.65	6.20	254.05
652.27	0.52	118.09	1693.36	6.37	251.89
712.41	0.56	146.86	1712.40	6.06	251.82
741.29	1.28	173.83	1734.43	6.14	252.76
800.77	1.61	179.35	1763.18	5.90	251.71
858.08	1.58	236.40	1783.40	5.66	250.49
891.65	3.06	238.12	1806.00	5.66	250.49
1006.82	3.06	237.46			





SECTION 15: PALYNOLOGY REPORT

No Palynology work was done on Casino 5 samples.