


CULTUS PETROLEUM

Cultus Drilling Manager	: C. Way
Cultus Drilling Superintendent	: R. Kohut
Cultus Drilling Supervisor(s)	: A. Bradley, H. Flink
Cultus Drilling Engineer(s)	: B. Richardson, K. Kelly
Cultus Geologist	: D. Horner
Reviewed by	: C. Way
Author	: L. Wilson
Date	: 31st July 1998



CULTUS PETROLEUM NL

TARALEA - 1 WELL COMPLETION REPORT PART 2

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SUMMARY

WELL SUMMARY

CULTUS PETROLEUM NL

TARALEA #1

The location of the well is X: 605 732.04 E, Y: 5 768 096.01 N in Block PEP 101, Onshore Otway Basin, Victoria. Taralea #1 was an exploration well, spudded at 20:30 hours on 18th January 1997 by O.D.&E. Rig #30. RT was 4.3 m.

12-1/4" hole was drilled using water with SAPP and Alum. Lost returns to the rathole. Remedied by cementing the rathole and re-installing the rathole sleeve. Difficulty was experienced drilling through the Newer Volcanic basalt. Used a downhole motor to drill an 8-1/2" pilot hole to 48m RT. Penetrated through basalt at 40m RT. Opened hole to 12-1/4" and drilled through the Port Campbell Limestone, Gellibrand Marl, Clifton and Dilwyn Formation, and into the Pember Mudstone at 495m RT. As the Gellibrand Marl was encountered the viscosity was dropped, the pH lowered with SAPP. However at 363m RT difficulty was experienced where large soft clay clumps blocked the flowline and created mud rings in the conductor. A KCL sweep between 363m and 366m RT flocculated and caused a second group of mud rings. Pulled the bit at 471m RT due to slow ROP and strapped out of the hole. Picked up new bit, RIH and washed to bottom. Drilled to 495m RT. Prior to running 9-5/8" casing the hole was circulated and conditioned. Ran 3 surveys over the interval with an average deviation of 0.25°

Ran 9-5/8" casing with the shoe set at 492.8m RT. 287sx Class G cement with 3% PHG at 12.5 ppg and 124sx Class G cement plus 1% CaCl₂ at 15.8ppg was displaced and pumped to surface. The plug was bumped, the casing tested to 3000psi and the float held when pressure was released. Installed Bradenhead and nipped up BOP's and Choke manifold. Pressure tested BOP's, choke manifold and valves, casing, kelly cocks and standpipe to 300/3000psi. Annular tested to 300/1500psi.

Made up 8-1/2" BHA, RIH and tagged cement at 479m RT. Drilled out cement, shoe and 3m of open hole to 498m RT. Displaced hole with a KCL/PHPA Polymer mud at 8.5ppg. Ran FIT to 370psi with 8.5ppg mud equating to 12.9 ppg EMW. No leak off was seen on the chart recorder.

8-1/2" hole was drilled from 498m RT through the Pember, Pebble Point, Paaratte, Skull Creek, Nullawarre, Belfast, Upper Eumeralla, Heathfield Formations and into the Lower Eumeralla Formation to 1462m RT. Pulled bit due to slow ROP. Circulated bottoms up and dropped survey. Tight hole experienced at intermittent intervals from 1392m to 960m RT, through the Heathfield Member and Upper Eumeralla Formations with 25K overpull. Ran 4 surveys over the interval 498m to 1462m RT with the last deviation at 2.0°. Picked up re-run bit, motor and junk basket. Changed out under gauge reamers for stabilisers. RIH to 886m RT. Washed and reamed through the Upper and Lower Eumeralla Formation from 886m to 917m, 1161m to 1183m and 1423 to 1462m RT. Worked junk basket and drilled 8-1/2" hole from 1462m to 1468m RT. ROP dropped to zero, circulated, dropped survey and POOH. Tight hole experienced in the Heathfield and Upper Eumeralla Formations. Picked up new bit, washed and reamed from 1454m to 1468m RT with 3m fill. Drilled 8-1/2" hole to the Original TD at 1500m RT and reached on day 10 at 07:00 hours on 27th January 1997.

Continued drilling 8-1/2" hole through the Lower Eumeralla Formation from 1500m to 1704m RT. Ran 10 stand wiper trip and experienced tight hole at intermittent intervals from 1551m to 1410m RT through the Heathfield Member and Upper Eumeralla Formations with 20-30K overpull. Continued drilling through the Lower Eumeralla Formation from 1704m to 1904m RT. Ran 10 stand wiper trip with no drag. Continued drilling through the Lower Eumeralla Formation from 1904m to 1951m RT, circulated bottoms up and POH. Tight hole experienced at intermittent intervals from 1421m to 1369m RT, through the Heathfield Member Formations with 15-20K overpull. Picked up new bit, RIH and, washed and reamed from 1919m to 1951m RT. Continued drilling 8-1/2" hole from 1951m to 2101m RT, dropped kelly on connection, dropped survey and POH. Layed out motor, picked up new bit and BHA. RIH and washed and reamed from 2098m to 2101m RT. Drilled from 2101m to 2126m RT, dropped survey and POH. Picked up motor, RIH and washed last 54m. Continued drilling from 2126m to 2368m RT through the Lower Eumeralla Formation with 10-15K drag on connections. Ran 10 stand wiper trip with 10-15k drag. Drilled 8-1/2" hole from 2368m to 2615m RT and into the Killara Coals. Circulated bottoms up and POH. Picked up new bit and RIH to 2543m RT and worked tight spot. Washed and reamed from 2593m to 2615m RT. Continued drilling from 2615m RT

through the Killara Coals and into the Windermere Member Formation to TD at 2800m RT reached on day 19 at 17:30 hours on 5th February 1997.

Ran 7 surveys over the interval 1462m to 2800m RT with the last deviation at 7.5°. Lost on average 3 bbl/hr while drilling through the Killara Coals. Circulated bottoms up, checked for flow and ran a 10 stand wiper trip. Conditioned well, dropped survey, checked for flow and strapped out of the hole.

Rigged up and ran the following:

- (1) Velocity data survey, 21 levels.
- (2) Electric log#1 DLL-MSFL-GR-SP-CAL-SONIC-MSFL
- (3) Electric log#2 Dipmeter

Ran open ended drillpipe to 725m RT and conditioned hole. Set abandonment plug #1 from 725m to 665m RT with 74sx Class G cement. Slowly POH to 523m RT and circulated pipe clean. Set abandonment plug #2 from 523m to 463m RT with 72sx Class G cement. Pulled 2 stands and circulated pipe clean. RIH and tagged plug #2 at 468m RT with 10K. Circulated casing with 9.2 ppg inhibitive mud from 465m RT. Layed down remaining drillpipe. Recovered wellhead and welded on top plate. Set abandonment plug #3 on the plate, used 5 sx Class G cement. Erected well marker post. The rig was released at 09:00 hours on 8th February 1997.

The well was completed in 20.52 days at an estimated cost of \$1.56 mm at an average cost of \$557/m plugged and abandoned.

LOCATION MAP

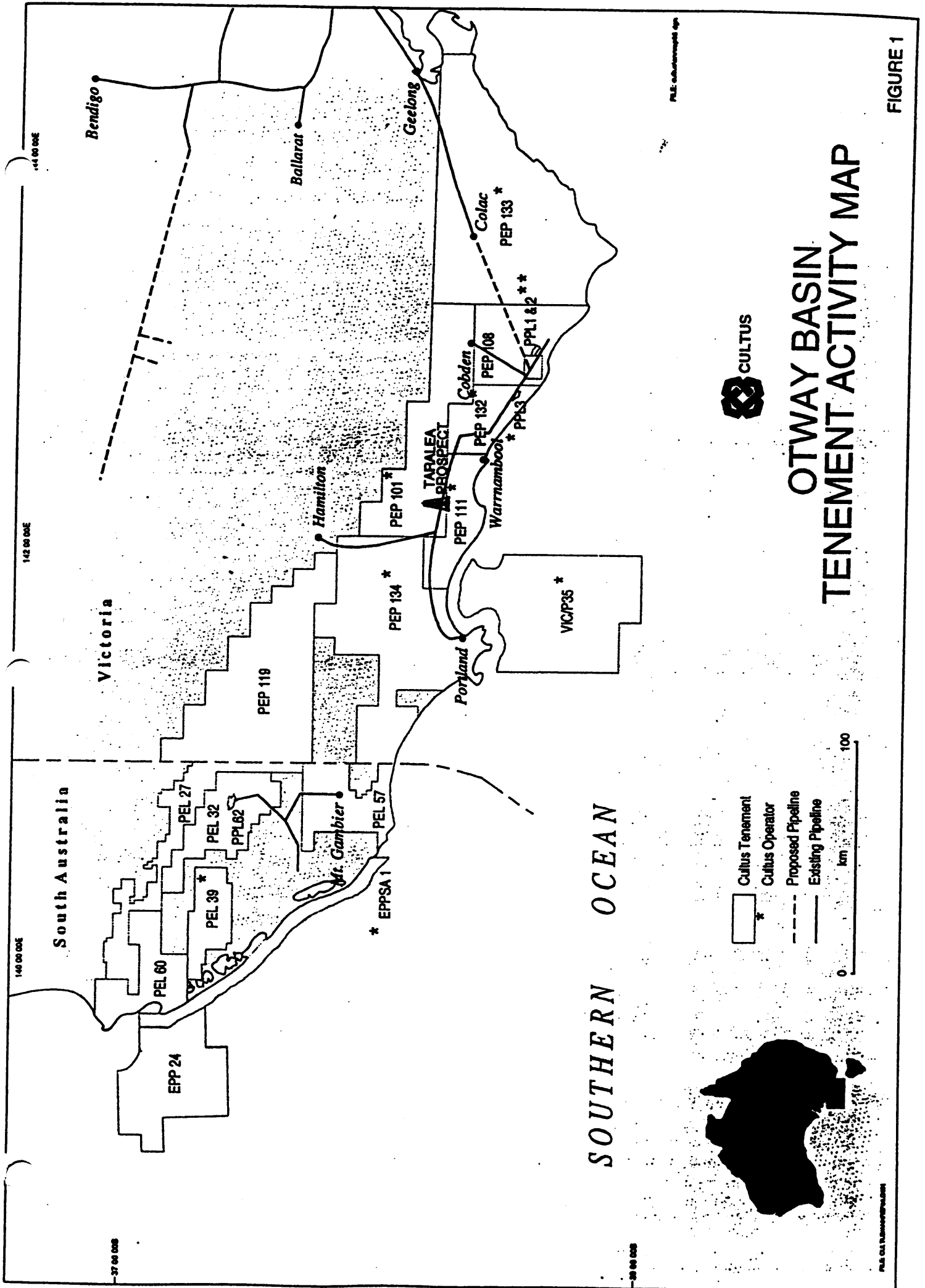


FIGURE 1

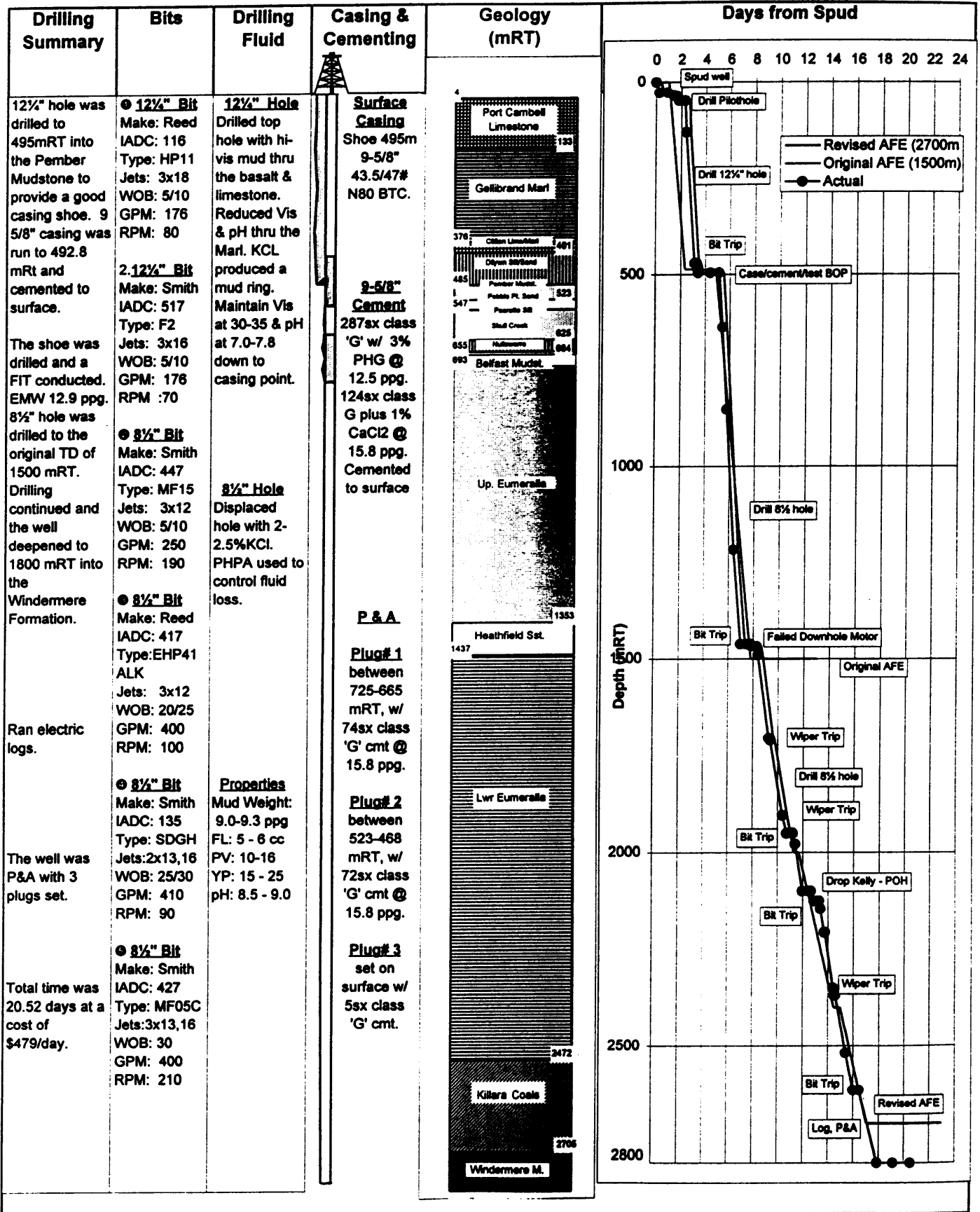
DAYS VS. DEPTH

Well: Taralea-1



Surface Location X: 605 732 E Y:5 768 096 N
 Siesmic Reference OPX90A-71, SP 350
 GL (m): 49 m TBC RT (m): 4.3

Actual Depth vs. Time Curve



lmw TAR_TDA1.XLS Revised TD Curve 16/11/98

COST SUMMARY

WELL: TARALEA - 1

Cost Variance Analysis

Taralea - 1 was budgeted for 22.0 Dry Hole Days and actually took 20.5 days (1.5 days, 6.8% under planned).

The total well cost was 16.15% over the Dry Hole AFE cost estimate of \$1,340.6 mm AUD. Actual well cost was \$1,557.1 mm AUD. The main reason for the overrun was due to the reduced drilling activity in the Otway Basin, resulting in additional costs being allocated to Taralea #1. This accounts for the Tubular increase of \$172.6K and the additional Land Freight charges of \$30.9K.

The use of mud motors in the 8-1/2" hole section improved drilling performance resulting less days to drill the well than originally planned. The extra cost of these mud motors is reflected under cost centre 513, Drilling Tools where \$89.2K was spent against \$21.7K planned.



TOTAL WELL COST AFE VS ACTUAL

Well: Taralea-1
 Area: Onshore Otway Basin, Victoria
 Permit: PEP 101
 Country: Australia
 AFE No: 97-101-44
 97-101-46

AFE Days: 22.0
 Actual Days: 20.8
 AFE TD mRT: 2700
 Actual TD mRT: 2800

Account Code	Tender / Contract	Category	AFE Total Well	ACTUAL Total Well	VARIANCE AFE vs Actual \$A	VARIANCE AFE vs Actual Percent
INTANGIBLE COSTS						
100		ADMINISTRATION				
101		Salaries, Wages and Oncosts	\$32,900	\$32,148	(\$752)	-2.28%
102		Drilling Superintendent & Supervisors	\$63,700	\$82,525	\$18,825	29.55%
103		Drilling Engineers	\$18,200	\$28,940	\$8,740	48.02%
104		Materials Superintendent	\$12,800	\$12,325	(\$475)	-3.71%
105		Geology & Geophysical	\$21,000	\$29,241	\$8,241	39.24%
106		Wellsite Geologist	\$19,300	\$13,000	(\$6,300)	-32.64%
107		Well Control Insurance	\$0	\$0		
108		Travel / Accomodation	\$10,000	\$15,208	\$5,208	52.08%
109		Draft. / Printing consumables	\$2,000	\$2,335	\$335	16.73%
200		SHORE BASE / LOGISTICS				
201		Site Office				
202		Contract Vehicles	\$8,700	\$5,680	(\$3,010)	-34.60%
203		Staff Safety Clothing	\$500	\$0	(\$500)	-100.00%
204	SEA.002	Warehousing & Storage	\$2,000	\$20,931	\$18,931	946.54%
205	MGMT.017	Purchasing Agent's Fees	\$19,400	\$28,543	\$9,143	47.13%
206		Load Fees (wharfage & stevedoring)				
207		Communications	\$15,900	\$2,148	(\$13,752)	-86.49%
208		Weather Forecasting				
300		TECHNICAL				
301		Geological Supplies	\$0	\$935	\$935	100.00%
302	SEA.006	Electric Log Analysis	\$3,000	\$0	(\$3,000)	-100.00%
303		Core & Fluid Analysis	\$3,000	\$0	(\$3,000)	-100.00%
304		Onshore Prep/Test comp. Assy.				
400		TRANSPORTATION				
401		Air Freight				
402		Fixed Wing				
403		Helicopters				
404	SEA.002	Land Freight	\$7,000	\$37,915	\$30,915	441.64%
405		Work Boats				
500		THIRD PARTY SERVICES				
501		Site Survey / Preparation & Clean Up	\$93,000	\$112,094	\$19,094	20.53%
502	SEA.001	Drilling Rig & Assoc. Services	\$329,000	\$299,476	(\$29,524)	-8.97%
503	SEA.001	Drilling Rig - Additional Equipment	\$3,200	\$0	(\$3,200)	-100.00%
504	SEA.001	Rig Mob / Demob / Move	\$144,900	\$145,210	\$310	0.21%
505		Rig Positioning				
506	SEA.006	Electric Line Logging	\$116,600	\$87,748	(\$28,854)	-24.75%
507	SEA.010	Coring Services	\$0	\$11,525	\$11,525	100.00%
508	SEA.007	Mud Logging	\$39,800	\$28,776	(\$10,824)	-27.33%
509	SEA.004	Mud Engineering	\$12,400	\$0	(\$12,400)	-100.00%
510	SEA.005	Cement Services	\$33,500	\$51,385	\$17,885	53.33%
511	SEA.008	Directional Drilling	\$8,500	\$891	(\$7,609)	-89.51%
512		Wellbore Survey	\$0	\$355	\$355	100.00%
513	SEA.011	Drilling Tools	\$21,700	\$89,287	\$67,587	311.37%
514		Diving / ROV	\$0	\$0		
515		Inspection	\$1,700	\$3,864	\$2,164	127.28%
516	SEA.015	Well Testing	\$22,600	\$5,400	(\$17,200)	-76.11%
517		Wellhead Services				
518		Casing Handling				
519		Fishing/Casing Cutting				
520		Miscellaneous	\$44,800	\$380	(\$44,420)	-99.15%
TOTAL INTANGIBLES			\$1,110,900	\$1,148,233	\$35,333	3.18%
TANGIBLE COSTS						
601		Fuel & Lubricants	\$26,400	\$55,336	\$28,936	109.61%
602	GFE Inv.	Tubulars	\$30,100	\$202,695	\$172,595	573.41%
603		Equipment Lost in Hole				
604	SEA.005	Tubular Accessories	\$2,900	\$9,101	\$6,201	213.82%
605	GFE Inv.	Wellhead Equipment	\$9,400	\$8,621	(\$779)	-8.29%
606		Drill Bits, nozzles, etc	\$72,000	\$80,011	\$8,011	11.13%
607	SEA.010	Coreheads	\$0	\$0		
608	SEA.005	Cement	\$8,300	\$6,857	(\$1,443)	-17.79%
609	SEA.005	Cementing Additives	\$1,700	\$0	(\$1,700)	-100.00%
610	SEA.004	Drilling Fluid	\$57,000	\$32,579	(\$24,421)	-42.84%
611		Water	\$20,500	\$2,630	(\$17,870)	-87.17%
612		Liner Equipment				
613		Completion Equipment				
614		Misc. Drilling Equipment	\$1,400	\$13,256	\$11,856	846.83%
TOTAL TANGIBLES			\$229,700	\$410,884	\$181,184	78.88%
TOTAL WELL COST			\$1,340,600	\$1,557,118	\$216,518	16.15%



WELL COST AFE VS ACTUAL

Well: Taralea-1
 Area: Onshore Otway Basin, Victoria
 Permit: PEP 101
 Country: Australia
 AFE No: 97-101-44

AFE Days: 13.0
 Actual Days: 8.4
 AFE TD m RT: 1500
 Actual TD mRT: 1500

Account Code	Tender / Contract	Category	AFE Total Dry Hole	ACTUAL Total Dry Hole	VARIANCE AFE vs Actual \$A	VARIANCE AFE vs Actual Percent
INTANGIBLE COSTS						
100		ADMINISTRATION				
101		Salaries, Wages and Oncosts	\$22,100	\$22,100		
102		Drilling Superintendent & Supervisors	\$45,900	\$45,900		
103		Drilling Engineers	\$12,800	\$12,800		
104		Materials Superintendent	\$10,400	\$10,400		
105		Geology & Geophysical	\$18,900	\$18,900		
106		Wellsite Geologist	\$13,000	\$13,000		
107		Well Control Insurance	\$0			
108		Travel / Accomodation	\$8,000	\$8,000		
109		Draft / Printing consumables	\$2,000	\$2,335	\$335	16.73%
200		SHORE BASE / LOGISTICS				
201		Site Office				
202		Contract Vehicles	\$8,000	\$4,000	(\$2,000)	-33.33%
203		Staff Safety Clothing	\$500	\$0	(\$500)	-100.00%
204	SEA.002	Warehousing & Storage	\$2,000	\$2,000		
205	MGMT.017	Purchasing Agent's Fees	\$19,400	\$26,282	\$6,882	35.47%
206		Load Fees (wharfage & stevedoring)				
207		Communications	\$13,200	\$2,148	(\$11,052)	-83.73%
208		Weather Forecasting				
300		TECHNICAL				
301		Geological Supplies		\$935	\$935	100.00%
302	SEA.006	Electric Log Analysis	\$3,000	\$0	(\$3,000)	-100.00%
303		Core & Fluid Analysis	\$3,000	\$0	(\$3,000)	-100.00%
304		Onshore Prep/Test comp. Assy.				
400		TRANSPORTATION				
401		Air Freight				
402		Fixed Wing				
403		Helicopters				
404	SEA.002	Land Freight	\$7,000	\$37,606	\$30,606	437.23%
405		Work Boats				
500		THIRD PARTY SERVICES				
501		Site Survey / Preparation & Clean Up	\$88,000	\$88,000		
502	SEA.001	Drilling Rig & Assoc. Services	\$194,400	\$194,400		
503	SEA.001	Drilling Rig - Additional Equipment	\$3,200	\$0	(\$3,200)	-100.00%
504	SEA.001	Rig Mob / Demob / Move	\$144,900	\$310	(\$144,590)	-99.79%
505		Rig Positioning				
506	SEA.006	Electric Line Logging	\$83,800	\$83,441	(\$359)	-0.43%
507	SEA.010	Coring Services	\$0	\$11,433	\$11,433	100.00%
508	SEA.007	Mud Logging	\$25,600	\$25,600		
509	SEA.004	Mud Engineering	\$8,100	\$0	(\$8,100)	-100.00%
510	SEA.005	Cement Services	\$33,500	\$33,500		
511	SEA.008	Directional Drilling	\$5,000	\$891	(\$4,109)	-82.18%
512		Wellbore Survey	\$0	\$355	\$355	100.00%
513	SEA.011	Drilling Tools	\$14,500	\$14,500		
514		Diving / ROV	\$0			
515		Inspection	\$1,700	\$3,864	\$2,164	127.28%
516	SEA.015	Well Testing	\$22,600	\$5,400	(\$17,200)	-76.11%
517		Wellhead Services				
518		Casing Handling				
519		Fishing/Casing Cutting				
520		Miscellaneous	\$10,000	\$380	(\$9,620)	-96.20%
		TOTAL INTANGIBLES	\$822,500	\$668,479	(\$154,021)	-18.73%
TANGIBLE COSTS						
601		Fuel & Lubricants	\$15,600	\$12,762	(\$2,838)	-18.20%
602	GFE Inv.	Tubulars	\$30,100	\$30,100		
603		Equipment Lost in Hole				
604	SEA.005	Tubular Accessories	\$2,900	\$9,101	\$6,201	213.82%
605	GFE Inv.	Wellhead Equipment	\$9,400	\$8,621	(\$779)	-8.29%
606		Drill Bits, nozzles, etc	\$34,700	\$35,179	\$479	1.38%
607	SEA.010	Coreheads	\$0	\$0		
608	SEA.005	Cement	\$8,300	\$6,657	(\$1,643)	-19.79%
609	SEA.005	Cementing Additives	\$1,700	\$0	(\$1,700)	-100.00%
610	SEA.004	Drilling Fluid	\$30,000	\$4,284	(\$25,716)	-85.72%
611		Water	\$13,300	\$2,630	(\$10,670)	-80.23%
612		Liner Equipment				
613		Completion Equipment				
614		Misc. Drilling Equipment	\$1,400	\$1,400		
		TOTAL TANGIBLES	\$147,400	\$110,733	(\$36,667)	-24.88%
		TOTAL WELL COST	\$969,900	\$779,211	(\$190,689)	-19.66%

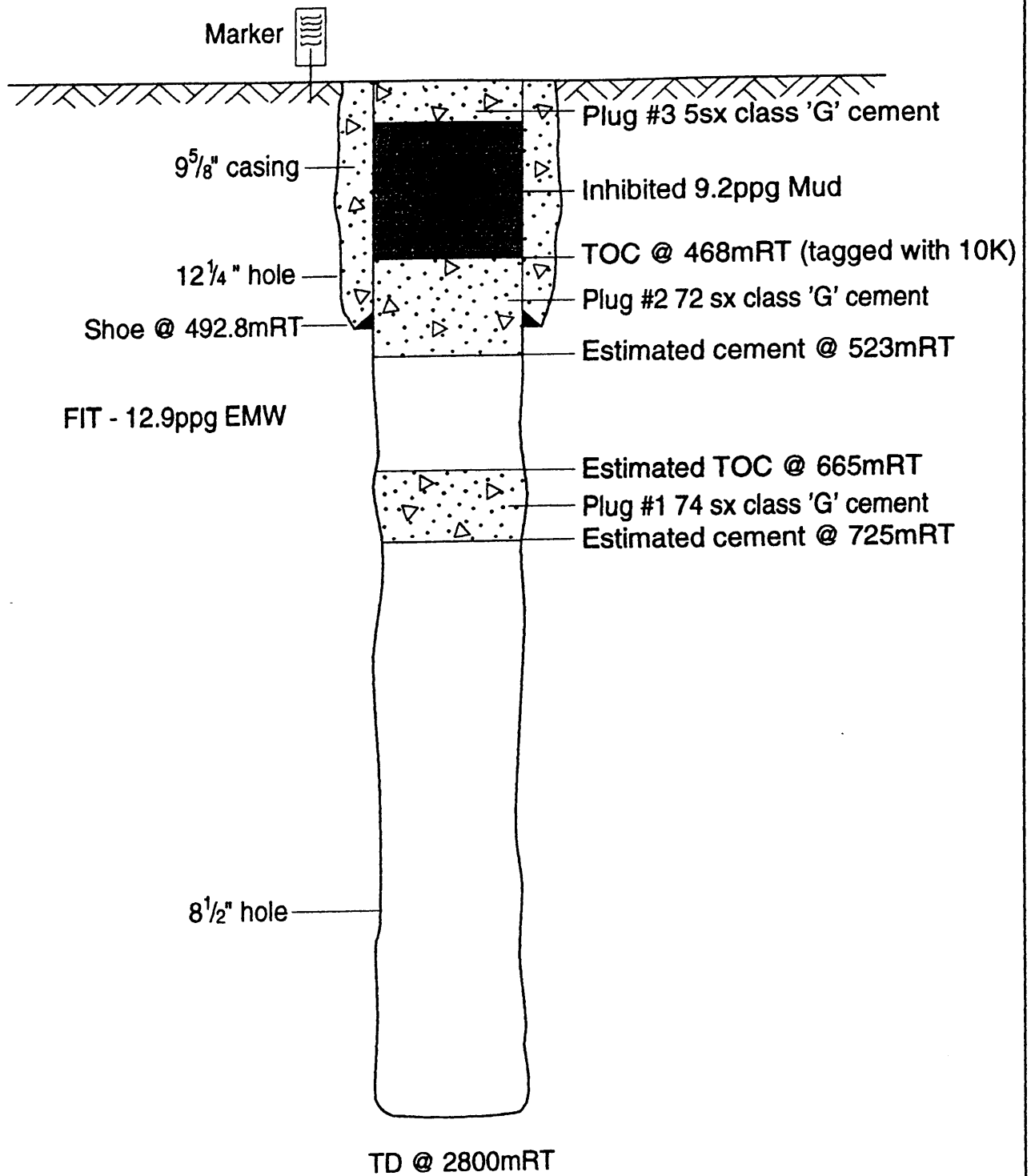
GENERAL INFORMATION

GENERAL INFORMATION

Well Name	Taralea -1		
Block	PEP 101, Onshore Otway Basin, Victoria		
Seismic Line	OPX90A - 71 SP 350		
Surface Location	X: 605 732.04	E	38° 13' 43.62" S
	Y: 5 768 096.01	N	142° 12' 28.84" E
Block Equity Percentage	Cultus Petroleum (Australia) NL	75.00%	
	Gulf (Australia) Resources NL	25.00%	
Type of Well	Exploration		
Spud Date	2030 hrs 18 January 1997		
Release Date	0900 hrs 8 February 1997		
Time to Drill, Plug and Abandon	20.52 days		
Total Depth	2800.0m RT MD		
RT	4.3m		
GL a.m.s.l.	49m		
Rig	Rig #30		
Drilling Contractor	Oil Drilling and Exploration Pty Ltd (O.D.&E.)		
Cultus Personnel on Site	Drilling Supervisor	A. Bradley,	H. Flink
	Engineer/Night Supervisor	B. Richardson,	K. Kelly
	Wellsite Geologist	D. Horner	
Well Objectives	Pebble Point Upper Eumeralla		
Well Cost	AFE 97-101-44	969.9 A\$K	
	AFE 97-101-46	<u>370.7 A\$K</u>	
		1,340.6 A\$K	

a.m.s.l. - above mean sea level

PLUG & ABANDONMENT SCHEMATIC



 CULTUS PETROLEUM (AUSTRALIA) N.L.

ONSHORE OTWAY BASIN - VICTORIA

PEP 101

TARALEA 1

PLUG & ABANDONMENT
SCHEMATIC

AUTHOR: LEON WILSON

DATE: AUGUST 1998

FILE: otway/pep101/tarasch.dgn

SCALE: NTS

TIME BREAKDOWNS

TOTAL TIMES

TIME BREAKDOWN DATABASE

Well : Taralea #1
 Drilling Co : O.D.E.
 Rig : 30
 Spud Date : 18.01.97
 TD Depth : 2,800.0

Total Time (hrs) - Spud/Release : 512.00
 Total Time (hrs) - Rig Move : 0.00
 Total NPT (hrs) : 71.00

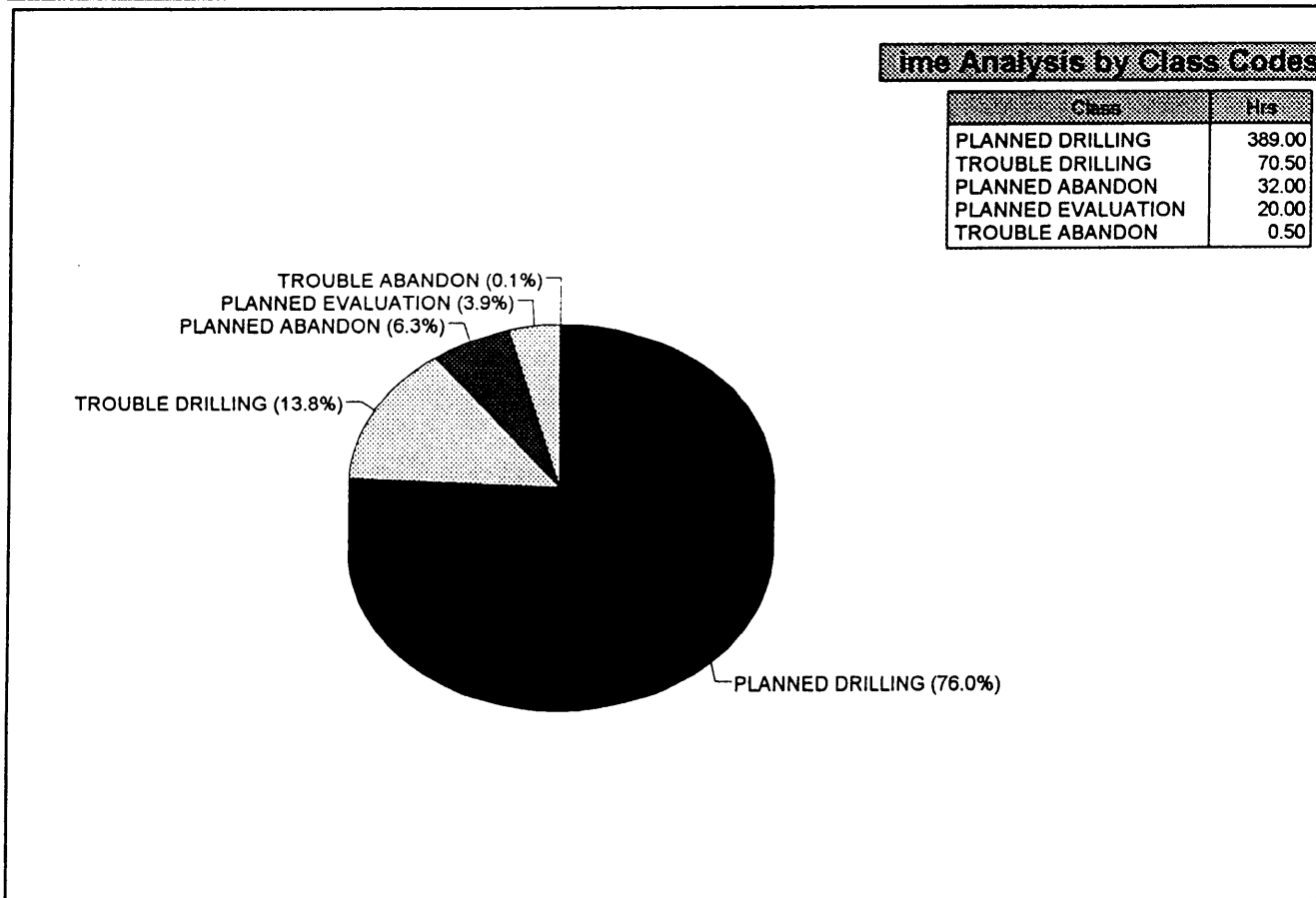
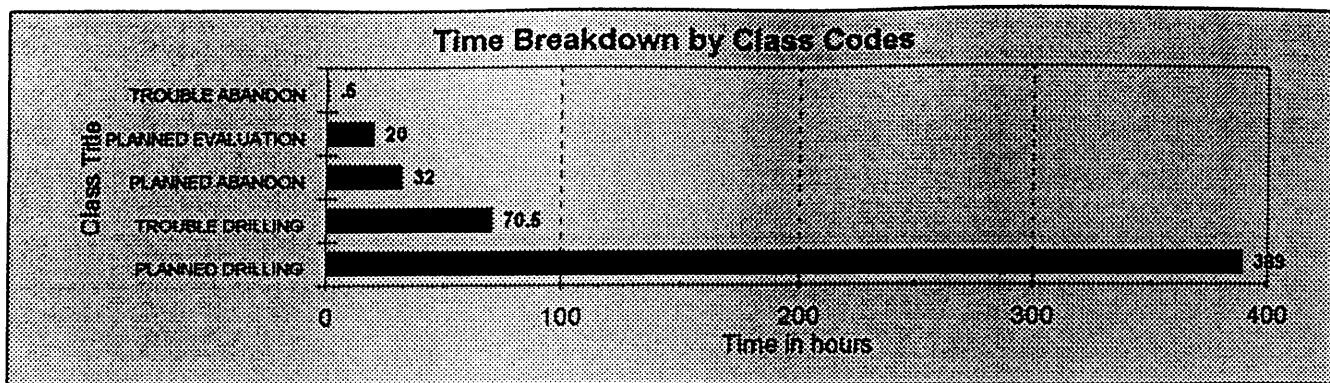
Time-Breakdown : Times by Class and Operation

Class	Time
PLANNED DRILLING	389.00
TROUBLE DRILLING	70.50
PLANNED ABANDON	32.00
PLANNED EVALUATION	20.00
TROUBLE ABANDON	0.50

Operation	Time
DOWN-HOLE MOTOR	173.00
DRILLING	86.00
TOT. TRIPPING	73.50
HANDLE TOOLS	26.50
TOT. CSG/CMT	24.00
RIG UP	20.50
LOGGING	19.00
BOP's	16.50
REAM/WASH	14.50
LAY DOWN PIPE	14.00
CIRCULATE	11.00
RIG DOWN	11.00
SURVEY	7.50
WIPER TRIP	5.50
SLIP/CUT LINE	3.00
RIG REPAIR	2.50
RIG SERVICE	2.50
WELL-HEAD	1.00
LEAK-OFF TEST	0.50

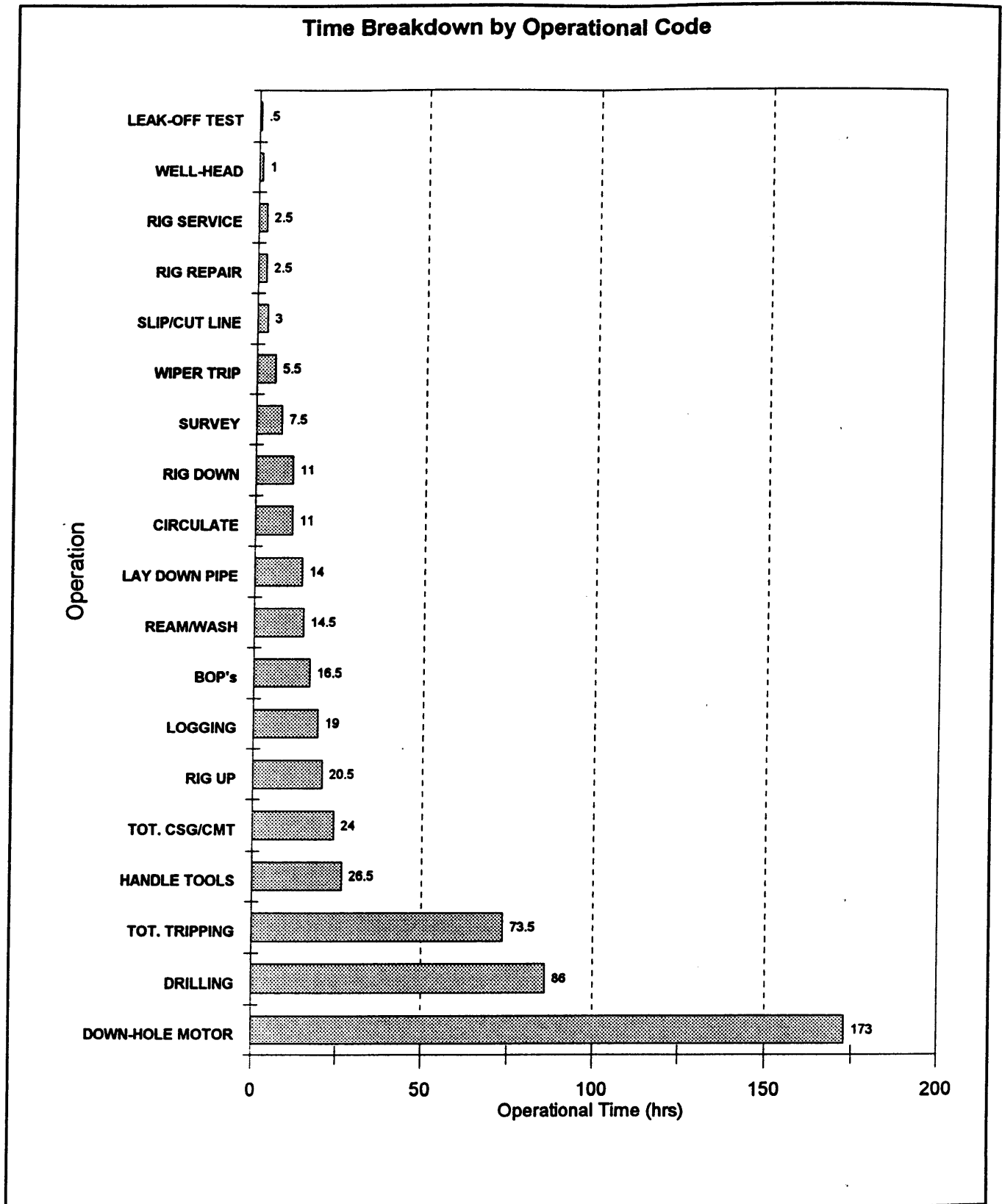
TIME BREAKDOWN DATABASE

WELL : Taralea #1



TIME BREAKDOWN DATABASE

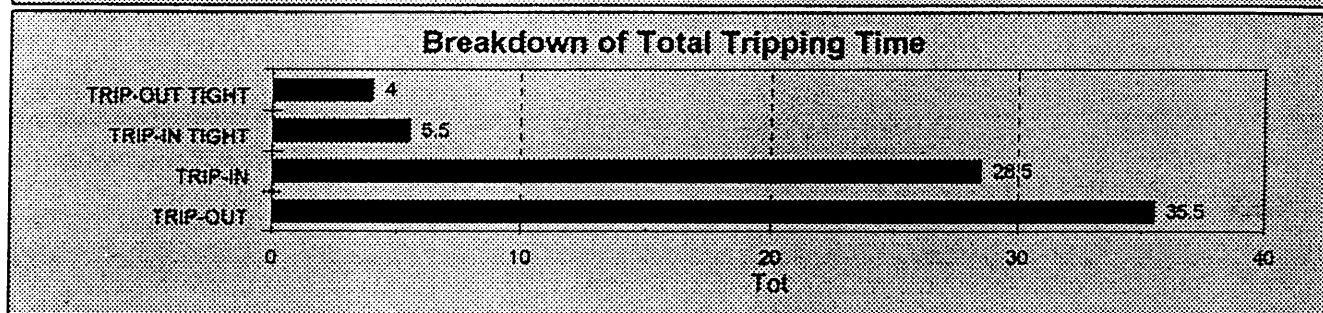
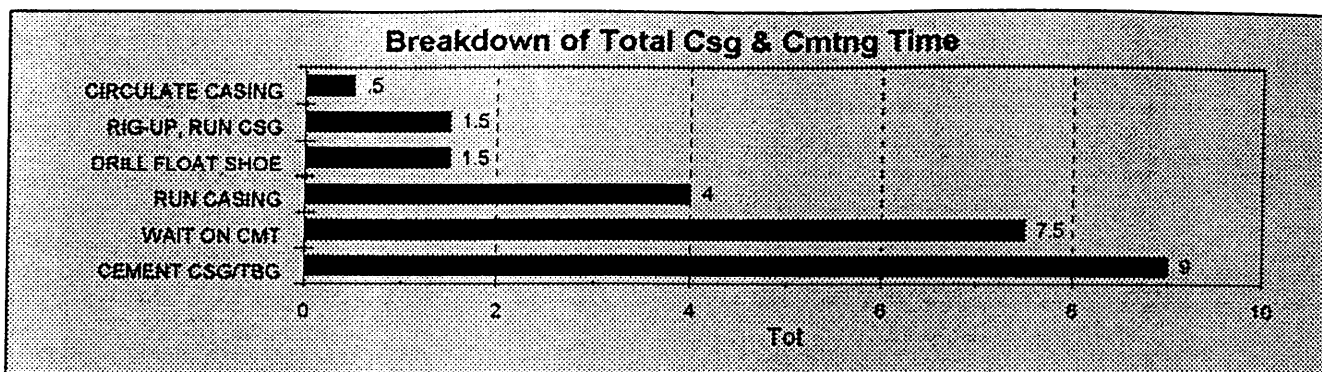
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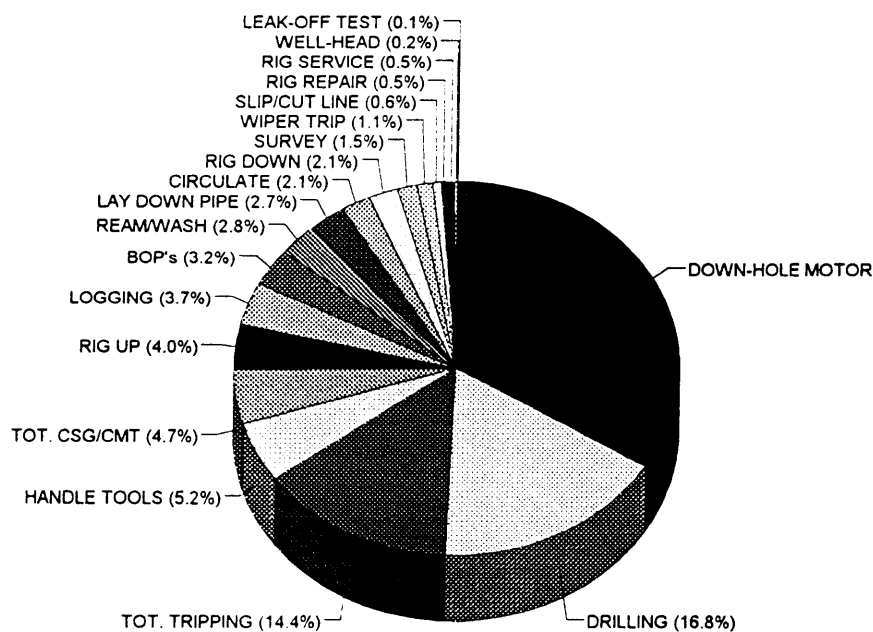
TIME ANALYSIS

TIME BREAKDOWN DATABASE

WELL : Taralea #1



Time Analysis by Operational Codes



Operation	hrs
DOWN-HOLE	173.00
MOTOR	
DRILLING	86.00
TOT. TRIPPING	73.50
HANDLE TOOLS	26.50
TOT. CSG/CMT	24.00
RIG UP	20.50
LOGGING	19.00
BOP's	16.50
REAM/WASH	14.50
LAY DOWN PIPE	14.00
CIRCULATE	11.00
RIG DOWN	11.00
SURVEY	7.50
WIPER TRIP	5.50
SLIP/CUT LINE	3.00
RIG REPAIR	2.50
RIG SERVICE	2.50
WELL-HEAD	1.00
LEAK-OFF TEST	0.50

TIME BREAKDOWNS

Time breakdown by Phase

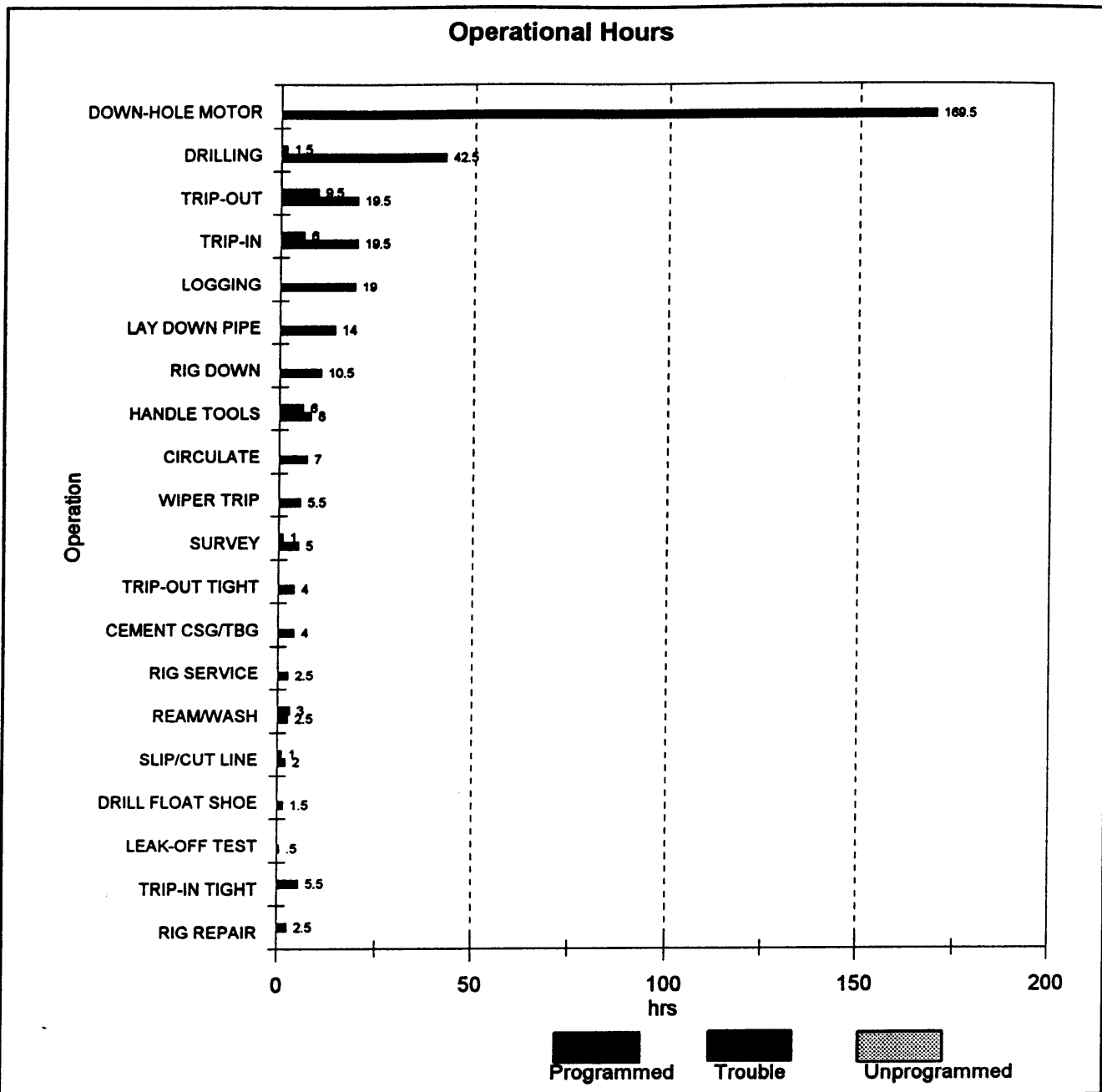
Taralea #1

PHASE : I1

PROGRAMMED HRS: 337.0

TROUBLE HRS : 36.0

UNPROGRAMMED HRS : 0.00



Time breakdown by Phase

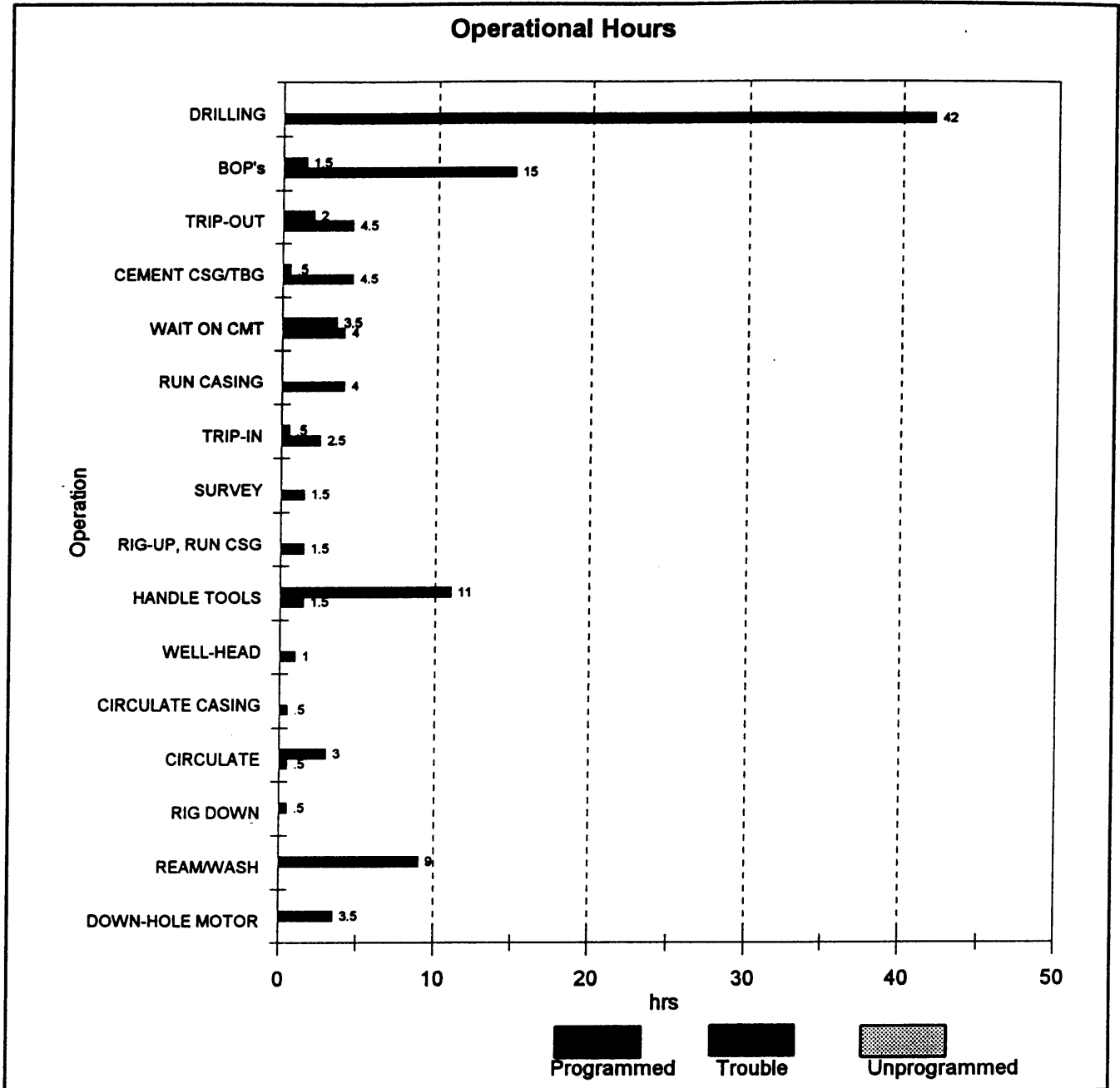
Taralea #1

PHASE : S1

PROGRAMMED HRS: 83.0

TROUBLE HRS : 35.0

UNPROGRAMMED HRS : 0.00



ACTIVITY REPORTS

TIME BREAKDOWN DATABASE - ACTIVITY REPORT

WELL : Taralea #1
 Drilling Co : O.D.E.
 Rig : 30

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DATE	FHS	CLS	OPERATION	HRS	DEPTH	DESCRIPTION
18.01.97	OT	PD	RIG UP	7.50	0	Install bell nipple and flowline. Pressure test pumps and kelly to 2000psi.
18.01.97	OT	PD	RIG UP	4.00	0	Drill 4m of rathole.
18.01.97	OT	PD	RIG UP	0.50	0	POOH. Pick up new bit.
18.01.97	OT	PD	RIG UP	1.50	0	Drill rathole 4m to 6m.
18.01.97	OT	PD	RIG UP	1.00	0	POOH. Pick up motor.
18.01.97	OT	PD	RIG UP	3.00	0	Drill rathole 6m to 13m. Install sock.
18.01.97	OT	PD	RIG UP	2.00	0	Drill mousehole and install sock.
18.01.97	OT	PD	RIG UP	1.00	0	Tag bottom of conductor at 12m. Lay down motor and flush out. Make up bit to spud.
18.01.97	S1	PD	DRILLING	3.50	19	Spud Well. Drill 12 1/4" hole 12m to 19m
19.01.97	S1	PD	DRILLING	3.00	27	Drill 12 1/4" hole 19m to 27m. Hole washing out to mousehole - no circulation up conductor.
19.01.97	S1	TD	CIRCULATE	1.00	27	Spot havis mud and LCM. Hole still washing out.
19.01.97	S1	TD	CIRCULATE	1.00	27	Pull mousehole. Attempt to plug communication with sacks - no success.
19.01.97	S1	TD	TRIP-OUT	0.50	27	POOH and stand back DC's.
19.01.97	S1	TD	HANDLE TOOLS	0.50	27	Clean out mousehole.
19.01.97	S1	TD	HANDLE TOOLS	1.50	27	Lay out mousehole. RIH w/- 2jts DP to 18m. Rig up Halliburton.
19.01.97	S1	TD	CEMENT CSG/TBG	0.50	27	Pump 5BBL water. Mix and pump 44sx "G" cement at 15.8ppg (8BBL slurry). Displace with 0.5BBL water and flush lines. CIP 0755hrs.
19.01.97	S1	TD	RIG DOWN	0.50	27	Rig down Halliburton. POOH w/- drill pipe. Pull kelly and rathole and hang in derrick.
19.01.97	S1	TD	WAIT ON CMT	3.50	27	Wait on cement.
19.01.97	S1	TD	HANDLE TOOLS	3.50	27	Re-install rathole. Clean out mousehole and re-install sock.
19.01.97	S1	TD	HANDLE TOOLS	1.50	27	RIH and tag cement at 12.1m. Break out 8" DC and lay down same.
19.01.97	S1	TD	HANDLE TOOLS	1.00	27	Drill cement 12m to 27m.
19.01.97	S1	PD	DRILLING	6.00	30	Drill 12 1/4" hole 27m to 30m.
20.01.97	S1	PD	DRILLING	5.00	34	Drill 12 1/4" hole 30m to 34m
20.01.97	S1	TD	TRIP-IN	0.50	34	POOH to change bit. RIH w/- insert bit.
20.01.97	S1	PD	DRILLING	4.00	36	Drill 12 1/4" hole 34m to 36m.
20.01.97	S1	TD	TRIP-OUT	0.50	36	POOH. Stand back 8" DC's.
20.01.97	S1	TD	HANDLE TOOLS	1.00	36	Pick up 6 1/2" downhole motor. Unable to set angle to 0deg.
20.01.97	S1	TD	HANDLE TOOLS	1.00	36	Pick up 2nd downhole motor. Make up 8 1/2" BHA
20.01.97	S1	TD	DOWN-HOLE MOTOR	3.50	48	Drill 8 1/2" hole 36m to 48m. Broke out of basalt at 40m
20.01.97	S1	TD	TRIP-OUT	1.00	48	POOH. Lay down motor.
20.01.97	S1	TD	HANDLE TOOLS	1.00	48	Make up 12 1/4" BHA. Unable to go below 13m. Lay down 2 x 8" DC's.
20.01.97	S1	TD	REAMWASH	3.00	48	Ream 12 1/4" hole to 36m
20.01.97	S1	TD	REAMWASH	3.50	48	Open 8 1/2" pilot hole to 12 1/4" 36m to 39m
21.01.97	S1	TD	REAMWASH	2.00	48	Open hole to 12 1/4" 39m to 44m
21.01.97	S1	PD	SURVEY	0.50	48	Survey at 31m 0.25deg
21.01.97	S1	TD	REAMWASH	0.50	48	Open hole to 12 1/4" 44m to 48m

TIME BREAKDOWN DATABASE - ACTIVITY REPORT

WELL : Taralea #1
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DATE	PHS	CLS	OPERATION	HRS	DEPTH	DESCRIPTION
21.01.97	S1	PD	DRILLING	3.00	130	Drill 12 1/4" hole 48m to 130m.
21.01.97	S1	PD	DRILLING	4.50	243	Drill 12 1/4" hole 130m to 243m
21.01.97	S1	PD	SURVEY	0.50	243	Survey at 231m 0.25deg
21.01.97	S1	PD	DRILLING	5.00	363	Drill 12 1/4" hole 243m to 363m
21.01.97	S1	TD	CIRCULATE	0.50	363	Clean out mud rings in flow line.
21.01.97	S1	PD	DRILLING	0.50	366	Drill 12 1/4" hole 363m to 366m while pumping KCL slug.
21.01.97	S1	TD	CIRCULATE	0.50	366	Clean out mud rings in flow line.
21.01.97	S1	PD	DRILLING	4.50	459	Drill 12 1/4" hole 366m to 459m
21.01.97	S1	PD	SURVEY	0.50	459	Survey at 445m 0.25deg.
21.01.97	S1	PD	DRILLING	0.50	471	Drill 12 1/4" hole 459m to 471m. ROP down from 30m/hr to 10 m/hr.
21.01.97	S1	PD	TRIP-OUT	1.00	471	POOH. Strap pipe.
22.01.97	S1	PD	TRIP-OUT	1.00	471	Continue POOH. Strap pipe - no correction (0.21m difference)
22.01.97	S1	PD	TRIP-IN	2.50	471	Change bit. RIH. Wash to bottom at 471m.
22.01.97	S1	PD	DRILLING	2.50	495	Drill 12 1/4" hole 471m to 495m
22.01.97	S1	PD	CIRCULATE	0.50	495	Pump havis sweep. Circulate hole clean.
22.01.97	S1	PD	TRIP-OUT	2.50	495	POOH - no drag.
22.01.97	S1	PD	RIG-UP, RUN CSG	1.50	495	Rig up to run 9 5/8" casing. Hold pre-job safety meeting.
22.01.97	S1	PD	RUN CASING	4.00	495	Run 9 5/8" casing - total of 41jts. Shoe at 492.8m. Float collar at 479.9m
22.01.97	S1	PD	CIRCULATE CASING	0.50	495	Circulate 150bbl at 456gpm and 200psi.
22.01.97	S1	PD	CEMENT CSG/TBG	0.50	495	Rig up Halliburton. Hold pre-job safety meeting. Pump 20bbl water ahead. Pressure test lines to 3000psi.
22.01.97	S1	PD	CEMENT CSG/TBG	0.50	495	Mix and pump 287sx "G" cement w/- 83.5bbl of 3% PHG at 12.5ppg followed by 124sx "G" w/- 15bbl of water + 1% CaCl2. Drop top plug. Pump 5bbl water.
22.01.97	S1	PD	CEMENT CSG/TBG	0.50	495	Displace w/- rig pumps 112bbl mud at 8bpm (total 117bbl). Bump plug to 900psi. Halliburton pressure test casing to 3000psi. Release pressure - floats held OK.
22.01.97	S1	PD	WAIT ON CMT	2.00	495	Clean out cellar. Drain and flush conductor. Remove flowline. Cut conductor. Cement static at cellar floor.
22.01.97	S1	PD	WAIT ON CMT	2.00	495	Wait on cement.
22.01.97	S1	PD	CEMENT CSG/TBG	2.00	495	Land casing w/- string weight of 55000lbs. Lay out cement head and lines. Break out landing joint and lay out. Lay out conductor cutoff.
22.01.97	S1	PD	CEMENT CSG/TBG	1.00	495	Rig down casing gear. Lay out mousehole.
22.01.97	S1	PD	WELL-HEAD	0.50	495	Install Section "A" wellhead.
23.01.97	S1	PD	WELL-HEAD	0.50	495	Install Section "A" wellhead.
23.01.97	S1	PD	BOP's	7.00	495	Nipple up BOP's. Install kill and choke lines.
23.01.97	S1	PD	BOP's	1.00	495	Install bell nipple and flowline. Install mousehole.
23.01.97	S1	PD	BOP's	1.00	495	Function test BOP's.
23.01.97	S1	PD	BOP's	1.00	495	Rig up to test surface equipment
23.01.97	S1	PD	BOP's	2.00	495	Pressure test kelly cocks, standpipe and full opening safety valve 300/3000psi.
23.01.97	S1	TD	BOP's	1.50	495	Rig up to test BOP's. Change rubber on cup tester.

TIME BREAKDOWN DATABASE - ACTIVITY REPORT

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DATE	PHS	CLS	OPERATION	HRS	DEPTH	DESCRIPTION
23.01.97	S1	PD	BOP's	3.00	495	Pressure test BOP's. Inner and outer kill line and choke line valves, choke line, choke manifold and pipe rams to 300/3000psi. Hydril to 300/1500psi. Blind rams to 1000psi. Outer kill valve leaking.
23.01.97	S1	PD	HANDLE TOOLS	1.50	495	Lay down 8" DC's.
23.01.97	I1	PD	HANDLE TOOLS	2.00	495	Make up 8 1/2" BHA
23.01.97	I1	PD	TRIP-IN	1.50	495	RIH. Tag top of cement at 479m
23.01.97	I1	PD	DRILL FLOAT SHOE	1.50	495	Drill out cement and float equipment. Shoe at 492.8m
23.01.97	I1	PD	DRILLING	0.50	498	Clean out to 495m. Drill 8 1/2" hole 495m to 498m.
24.01.97	I1	PD	LEAK-OFF TEST	0.50	498	Pull back into casing. Conduct FIT to 370psi w/- 8.5ppg mud - EMW 12.9ppg
24.01.97	I1	PD	DRILLING	5.50	637	Drill 8 1/2" hole 498m to 637m
24.01.97	I1	PD	DRILLING	3.50	708	Drill 8 1/2" hole 637m to 708m
24.01.97	I1	PD	SURVEY	0.50	708	Circulate and survey at 694m 1 deg
24.01.97	I1	PD	DRILLING	11.00	1013	Drill 8 1/2" hole 708m to 1013m
24.01.97	I1	PD	SURVEY	0.50	1013	Circulate and survey at 998m 0.5deg
24.01.97	I1	PD	DRILLING	2.50	1076	Drill 8 1/2" hole 1013m to 1076m
25.01.97	I1	PD	DRILLING	6.00	1215	Drill 8 1/2" hole 1076m to 1215m
25.01.97	I1	PD	DRILLING	5.00	1315	Drill 8 1/2" hole 1215m to 1315m
25.01.97	I1	PD	SURVEY	0.50	1315	Circulate and survey 1.25deg at 1300m.
25.01.97	I1	PD	DRILLING	8.50	1462	Drill 8 1/2" hole 1315m to 1462m. ROP dropped from 15-20mph to 5mph.
25.01.97	I1	PD	CIRCULATE	1.00	1462	Circulate bottoms up. Pump slug and drop survey.
25.01.97	I1	PD	TRIP-OUT TIGHT	3.00	1462	POOH. Up to 25K drag at 1392m, 1374m, 1316-1313m, 1264m, 1214-1058m. Work through tight spots to stop hole swabbing.
26.01.97	I1	PD	TRIP-OUT TIGHT	1.00	1462	Continue to POOH to shoe. Up to 25K drag at 1049-1044m, 1018-1011m, 1005m, 998-983m, 970-960m. Work through tight spots to stop hole swabbing.
26.01.97	I1	PD	RIG SERVICE	0.50	1462	Rig service.
26.01.97	I1	PD	TRIP-OUT	1.00	1462	POOH
26.01.97	I1	PD	HANDLE TOOLS	1.00	1462	Lay out NB Reamer and 1st String Reamer (1/4" under gauge). Top String Reamer in gauge. Recover survey - misrun. Lay out short DC and prepare to pick up motor.
26.01.97	I1	TD	HANDLE TOOLS	2.00	1462	Lay out motor. Pick up stabilizers to replace undergauge reamers. Make up new BHA.
26.01.97	I1	TD	TRIP-IN	0.50	1462	RIH
26.01.97	I1	TD	TRIP-IN	1.00	1462	Continue RIH to shoe.
26.01.97	I1	PD	SLIP/CUT LINE	1.00	1462	Slip and cut drilling line
26.01.97	I1	TD	TRIP-IN TIGHT	2.50	1462	RIH to 886m
26.01.97	I1	TD	REAM/WASH	0.50	1462	Fill pipe and break circulation. Wash and ream 886m to 917m.
26.01.97	I1	TD	TRIP-IN TIGHT	1.50	1462	RIH to 1161m
26.01.97	I1	TD	REAM/WASH	0.50	1462	Ream 1161m to 1183m
26.01.97	I1	TD	TRIP-IN TIGHT	1.50	1462	RIH to 1430m
26.01.97	I1	TD	REAM/WASH	1.00	1462	Wash and ream 1423m to 1462m
26.01.97	I1	TD	DRILLING	1.50	1468	Drill 8 1/2" hole 1462m to 1468m. ROP dropped to zero.

TIME BREAKDOWN DATABASE - ACTIVITY REPORT

WELL : Taralea #1

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DATE	PHS	CLS	OPERATION	HRS	DEPTH	DESCRIPTION
26.01.97	I1	TD	SURVEY	0.50	1468	Circulate. Drop survey.
26.01.97	I1	TD	TRIP-OUT	3.00	1468	POOH. Up to 20K drag at 1388m, 1351m and 1105m.
26.01.97	I1	TD	HANDLE TOOLS	1.00	1468	Lay down stabilizers. Top stabilizer 1/16" under gauge, NB stabilizer and Reamer in gauge. Recover survey - 2deg. Lay out short DC.
26.01.97	I1	PD	HANDLE TOOLS	1.00	1468	Make up new BHA. Pick up motor and function test.
26.01.97	I1	PD	TRIP-IN	1.50	1468	RIH with BHA. Pick up 6 x HWDP.
27.01.97	I1	PD	TRIP-IN	0.50	1468	Continue to RIH with BHA. Pick up 6 x HWDP.
27.01.97	I1	PD	TRIP-IN	2.50	1468	RIIH to 1454m.
27.01.97	I1	PD	REAM/WASH	0.50	1468	Wash and ream 1454m to 1468m. 3m of fill.
27.01.97	I1	PD	DOWN-HOLE MOTOR	2.50	1490	Drill 8 1/2" hole with motor 1468m to 1490m
27.01.97	I1	PD	DOWN-HOLE MOTOR	1.00	1500	Drill 8 1/2" hole with motor 1490m to 1500m
27.01.97	I1	PD	DOWN-HOLE MOTOR	3.00	1524	Drill 8 1/2" hole with motor 1500m to 1524m
27.01.97	I1	PD	RIG SERVICE	0.50	1524	Rig service.
27.01.97	I1	PD	DOWN-HOLE MOTOR	13.50	1677	Drill 8 1/2" hole with motor 1524m to 1677m
28.01.97	I1	PD	DOWN-HOLE MOTOR	3.00	1704	Drill 8 1/2" hole with motor 1677m to 1704m
28.01.97	I1	PD	CIRCULATE	0.50	1704	Circulate bottoms up.
28.01.97	I1	PD	WIPER TRIP	0.50	1704	POOH for 10 stand wiper trip. Drag 5-10K with tight spots at 1551-1545(20K), 1523-1520(20K), 1494-1487(20K), 1438-1429(25K), 1410-1412(30K).
28.01.97	I1	PD	WIPER TRIP	1.00	1704	RIH with 5K drag.
28.01.97	I1	PD	RIG SERVICE	0.50	1704	Rig service.
28.01.97	I1	PD	DOWN-HOLE MOTOR	0.50	1709	Drill 8 1/2" hole with motor 1704m to 1709m
28.01.97	I1	PD	DOWN-HOLE MOTOR	4.00	1740	Drill 8 1/2" hole with motor 1709m to 1740m
28.01.97	I1	PD	DOWN-HOLE MOTOR	0.50	1742	Attempt to increase circulation rate to 450gpm. Blew pop-off valves on pumps. Drill with 360gpm 1740m to 1742m.
28.01.97	I1	PD	DOWN-HOLE MOTOR	4.50	1780	Drill 8 1/2" hole with motor 1742m to 1780m
28.01.97	I1	PD	SURVEY	0.50	1780	Circulate and survey. 2.75deg at 1759m.
28.01.97	I1	PD	DOWN-HOLE MOTOR	8.50	1858	Drill 8 1/2" hole with motor 1780m to 1858m
29.01.97	I1	PD	DOWN-HOLE MOTOR	6.00	1904	Drill 8 1/2" hole with motor 1858m to 1904m
29.01.97	I1	PD	CIRCULATE	0.50	1904	Circulate bottoms up.
29.01.97	I1	PD	WIPER TRIP	1.00	1904	Make 10 stand wiper trip - no drag.
29.01.97	I1	PD	DOWN-HOLE MOTOR	6.50	1951	Drill 8 1/2" hole with motor 1904m to 1951m
29.01.97	I1	PD	CIRCULATE	1.00	1951	Circulate bottoms up.
29.01.97	I1	PD	TRIP-OUT	4.50	1951	POOH. Tight from 1421m to 1369m (15-20K).
29.01.97	I1	PD	HANDLE TOOLS	1.00	1951	Gauge R/Reamers 1/16" under gauge. Change bit. Test motor.
29.01.97	I1	PD	TRIP-IN	3.50	1951	RIH to 1919m - 20k drag at 1919m.
30.01.97	I1	PD	REAM/WASH	1.00	1951	Wash and ream 1919m to 1951m.
30.01.97	I1	PD	DOWN-HOLE MOTOR	5.00	1979	Drill 8 1/2" hole with motor 1951m to 1979m
30.01.97	I1	PD	DOWN-HOLE MOTOR	13.50	2101	Drill 8 1/2" hole with motor 1979m to 2101m
30.01.97	I1	TD	RIG REPAIR	1.00	2101	Brakes failed on connection. Kelly dropped into bushings and hook unlatched. Latch kelly and pick up string weight with zero drag and full weight.
30.01.97	I1	TD	SLIP/CUT LINE	1.00	2101	Slip and cut drilling line.
30.01.97	I1	TD	SURVEY	0.50	2101	Drop survey. Pump slug.

TIME BREAKDOWN DATABASE - ACTIVITY REPORT

WELL : Taralea #1

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DATE	PHS	CLS	OPERATION	HRS	DEPTH	DESCRIPTION
30.01.97	I1	TD	TRIP-OUT	2.00	2101	POOH. Check drill string for bent pipe or swelled boxes.
31.01.97	I1	TD	TRIP-OUT	2.00	2101	POOH. Check drill string for bent pipe or swelled boxes.
31.01.97	I1	TD	TRIP-OUT	2.50	2101	POOH with BHA. Break and service all connections.
31.01.97	I1	TD	HANDLE TOOLS	0.50	2101	Break out and lay down motor. Unable to rotate motor at surface.
31.01.97	I1	TD	HANDLE TOOLS	0.50	2101	Pick up kelly and check rollers.
31.01.97	I1	TD	HANDLE TOOLS	0.50	2101	Make up new BHA. Pick up Monel DC and HTC ATMGT18OD bit.
31.01.97	I1	TD	TRIP-IN	1.50	2101	RIH with BHA.
31.01.97	I1	TD	HANDLE TOOLS	1.50	2101	Break and service upper kelly connections.
31.01.97	I1	TD	TRIP-IN	3.00	2101	RIH to 2098m. Wash and ream 2098m to 2101m.
31.01.97	I1	PD	DOWN-HOLE MOTOR	5.50	2126	Drill 8 1/2" hole 2101m to 2126m.
31.01.97	I1	PD	SURVEY	0.50	2126	Drop survey. Pump slug.
31.01.97	I1	PD	TRIP-OUT	3.50	2126	POOH.
31.01.97	I1	PD	HANDLE TOOLS	1.00	2126	Make up new BHA. Test motor.
31.01.97	I1	PD	TRIP-IN	1.50	2126	RIH.
01.02.97	I1	PD	TRIP-IN	2.50	2126	RIH.
01.02.97	I1	TD	REAM/WASH	1.00	2126	Wash and ream 2062m to 2126m.
01.02.97	I1	PD	DOWN-HOLE MOTOR	2.50	2146	Drill 8 1/2" hole with motor 2126m to 2146m.
01.02.97	I1	PD	DOWN-HOLE MOTOR	7.00	2206	Drill 8 1/2" hole with motor 2146m to 2206m.
01.02.97	I1	PD	SURVEY	1.50	2206	Circulate. Run single shot survey on wireline - misrun. Rerun single shot survey - 6.5deg N26E.
01.02.97	I1	PD	DOWN-HOLE MOTOR	9.50	2291	Drill 8 1/2" hole with motor 2206m to 2291m.
02.02.97	I1	PD	DOWN-HOLE MOTOR	1.50	2311	Drill 8 1/2" hole with motor 2291m to 2311m.
02.02.97	I1	PD	RIG SERVICE	0.50	2311	Rig service.
02.02.97	I1	PD	DOWN-HOLE MOTOR	4.00	2349	Drill 8 1/2" hole with motor 2311m to 2349m.
02.02.97	I1	PD	DOWN-HOLE MOTOR	2.00	2368	Drill 8 1/2" hole with motor 2349m to 2368m. 10-15k drag on connections.
02.02.97	I1	PD	SURVEY	0.50	2368	Circulate and survey 6deg at 2346m.
02.02.97	I1	PD	WIPER TRIP	1.50	2368	Make 10 stand wiper trip 10-15K drag.
02.02.97	I1	PD	REAM/WASH	0.50	2368	Wash and ream 2355m to 2368m.
02.02.97	I1	PD	DOWN-HOLE MOTOR	13.50	2471	Drill 8 1/2" hole with motor 2368m to 2471m.
03.02.97	I1	PD	DOWN-HOLE MOTOR	6.00	2518	Drill 8 1/2" hole with motor 2471m to 2518m.
03.02.97	I1	PD	DOWN-HOLE MOTOR	1.50	2529	Drill 8 1/2" hole with motor 2518m to 2529m.
03.02.97	I1	PD	RIG SERVICE	0.50	2529	Rig Service.
03.02.97	I1	PD	DOWN-HOLE MOTOR	11.50	2615	Drill 8 1/2" hole with motor 2529m to 2615m.
03.02.97	I1	PD	CIRCULATE	1.00	2615	Circulate bottoms up.
03.02.97	I1	PD	TRIP-OUT	3.50	2615	Drop single shot survey. POOH.
04.02.97	I1	PD	TRIP-OUT	1.00	2615	POOH.
04.02.97	I1	PD	HANDLE TOOLS	1.00	2615	Gauge reamers - 1/16" under. Change bit. Function test motor.
04.02.97	I1	PD	TRIP-IN	4.00	2615	RIH.
04.02.97	I1	PD	TRIP-IN	1.00	2615	RIH. Work through tight spot at 2543m.
04.02.97	I1	PD	REAM/WASH	0.50	2615	Wash and ream 2593m to 2615m.
04.02.97	I1	PD	DOWN-HOLE MOTOR	16.50	2705	Drill 8 1/2" hole with motor 2615m to 2705m. lost 40 bbl @2675m.Avg 3bbl/hr 2615 to 2640
05.02.97	I1	PD	DOWN-HOLE MOTOR	12.50	2779	Drill 8 1/2" hole with motor 2705m to 2740m.

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DATE	PHS	CLS	OPERATION	HRS	DEPTH	DESCRIPTION
05.02.97	I1	TD	RIG REPAIR	1.00	2779	Lost 1200 psi pump pressure. Check surface equipment, rectify fault in SCR unit.
05.02.97	I1	PD	DOWN-HOLE MOTOR	4.00	2800	Drill 8 1/2" hole with motor 2779m to 2800m.
05.02.97	I1	PD	CIRCULATE	1.00	2800	Circulate hole clean, flow check well
05.02.97	I1	PD	WIPER TRIP	1.50	2800	Conduct 10 stand wiper trip, 10k O/P maximum. RIH to 2800m
05.02.97	I1	PD	CIRCULATE	1.00	2800	Circulate hole clean
05.02.97	I1	PD	SURVEY	0.50	2800	Drop single shot survey, flow check well
05.02.97	I1	PD	TRIP-OUT	2.50	2800	Pump slug, POH SLM
06.02.97	I1	PD	TRIP-OUT	3.50	2800	POH SLM
06.02.97	I1	PE	HANDLE TOOLS	1.00	2800	Lay down monel, roller reamers, flush motor, recover survey - missrun
06.02.97	I1	PE	LOGGING	1.00	2800	Clean floor, held safety meeting with BPB/VEL. Data.R/U to log
06.02.97	I1	PE	LOGGING	6.50	2800	RIH with vel. data tool. Took check shot at 21 levels.R/D Data log.HUD 2798m
06.02.97	I1	PE	LOGGING	6.50	2800	Prepare and rig up DDL-GR-SP-CAL-SONIC-MSFL.Run log nr 2 HUD 2797m RD nr 2 loggingtool
06.02.97	I1	PE	LOGGING	5.00	2800	R/U and run log nr 3 Dipmeter.Hud 2797mBHT 117 Deg C. Dev. 9.0 Deg at 2785
06.02.97	I1	TA	RIG REPAIR	0.50	2800	Changed out brake band on draw work - drillers side
07.02.97	I1	PA	TRIP-IN	1.00	2800	RIH with OE drillpipe to 725m
07.02.97	I1	PA	CEMENT CSG/TBG	1.00	2800	R/U surface equipment - Held pre job safety meeting
07.02.97	I1	PA	CEMENT CSG/TBG	1.50	2800	Pump 5 bbl of DW -P/test lines to 1000 psi- set cmt plug no 1 F/ 725 to 665m with 74 sxs class G of 15.8 ppg.Displaced w/1.4 bbl dw and 28 bbl mud-p/b to 523m - circ.clean
07.02.97	I1	PA	CEMENT CSG/TBG	1.50	2800	Set cmt plug no 2 with 72 sxs F/523 to 463 class G of 15.8 ppg.Lost .5 hr due to blocked bulk line.displaced and pulled 2 std circulating clean
07.02.97		PA	CIRCULATE	0.50	2800	Circulate clean after plug no 2
07.02.97	I1	PA	LAY DOWN PIPE	7.50	2800	Lay down drillpipe- Break kelly - Lay down BHA/drill collar
07.02.97	I1	PA	LAY DOWN PIPE	0.50	2800	RIH and tag toc plug at 468m. weight tested with 10,000 Lbs.
07.02.97	I1	PA	CIRCULATE	0.50	2800	Circulate pipe clean
07.02.97	I1	PA	LAY DOWN PIPE	3.50	2800	Continued laying down drill pipe
07.02.97	I1	PA	SLIP/CUT LINE	1.00	2800	Slip and Cut drilling line
07.02.97	I1	PA	LAY DOWN PIPE	2.00	2800	Cont. laying down drillpipe
07.02.97	I1	PA	CIRCULATE	0.50	2800	Displace to inhibited mud from 465m to surface
07.02.97	I1	PA	LAY DOWN PIPE	0.50	2800	Cont. laying down drillpipe
07.02.97	I1	PA	RIG DOWN	1.50	2800	Flush standpie,kelly,bop,choke mfd,mud pumps,poorboy and all associated equipment, Dump mud tanks , lay out mouse hole
08.02.97	I1	PA	RIG DOWN	6.00	2800	Lay out kelly n/down and remove bop,clean mud tanks
08.02.97	I1	PA	RIG DOWN	3.00	2800	Recover well head- Set plug no 3 at surface with 5 sxs of class G cement Weld on top plateand install well sign post.

TIME BREAKDOWN DATABASE - ACTIVITY REPORT

WELL : Taralea #1

Drilling Co : O.D.E.

Rig : 30

Page Number : 7 of 7

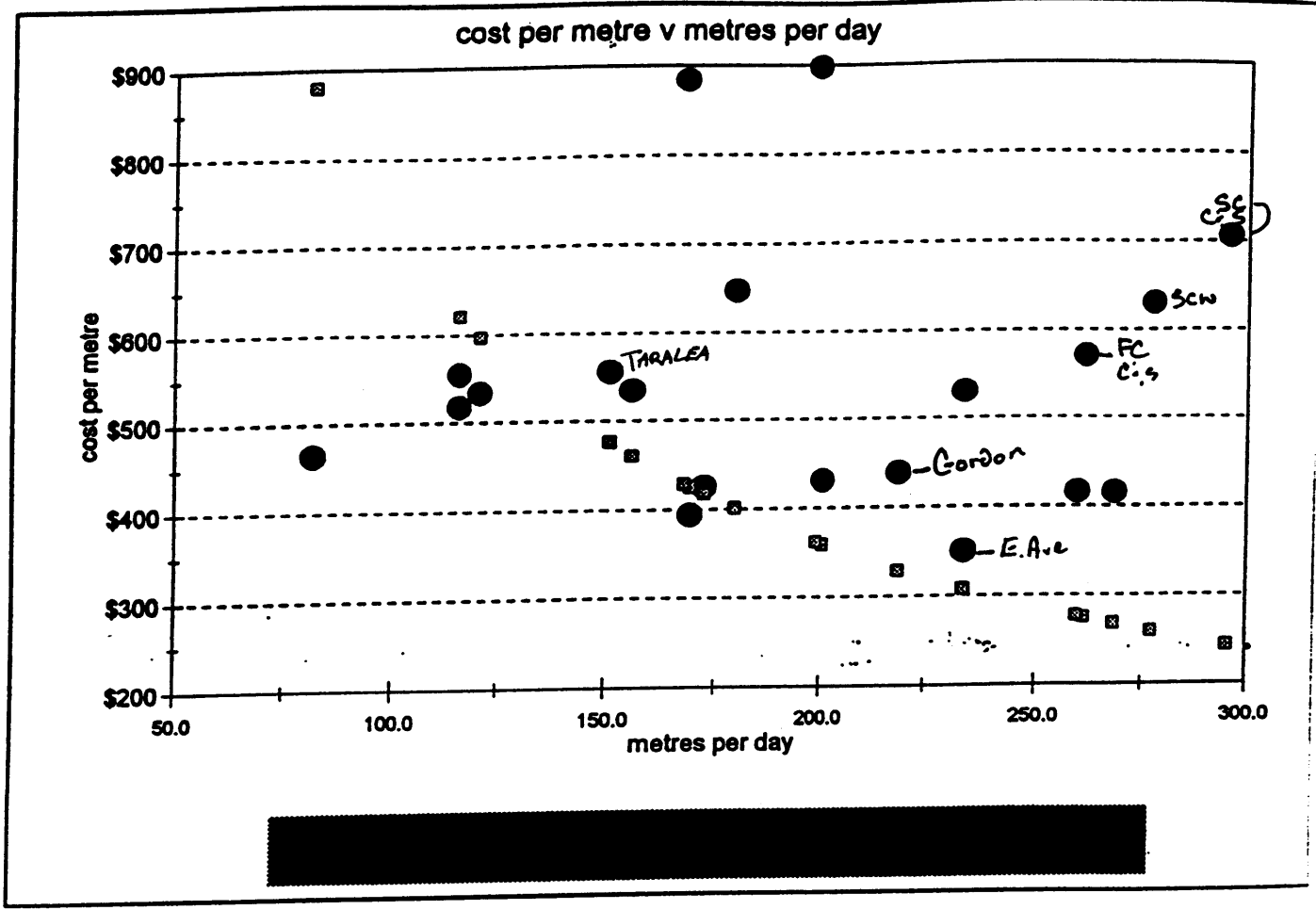
DATE	PHS	CEG	OPERATION	HRS	DEPTH	DESCRIPTION
08.02.97	11	PA	RIG DOWN	0.00	2800	RELEASE RIG AT 0900 HOURS ON THE 8TH of FEBRUARY 1997

MULTI-WELL ANALYSIS

Multi well cost analysis
Cost per metre / metres per day
Comparative cost per hour value: \$ 3000.00

Well Name	Cost (\$)	Metres	Metres per Day	Cost per Metre	Cost per Hour (\$3000)	Cost per Hour (\$3000)
BLACKWOOD #1	\$1,130,000	2,650.00	15.38	172.36	\$417.74	\$426.42
BOGGY CREEK #1	\$1,230,000	1,900.00	10.58	179.53	\$401.05	\$647.37
DIGBY #1	\$1,082,000	2,088.00	18.02	115.87	\$621.41	\$518.20
DUNBAR #1	\$933,000	1,758.00	7.52	233.75	\$308.02	\$530.72
DUNBAR EAST #1	\$1,260,000	2,361.00	19.56	120.69	\$596.57	\$533.67
EAST AVENUE # 1	\$1,015,779	2,900.00	12.40	233.95	\$307.76	\$350.27
Fenton Creek #1	\$1,050,000	1,840.00	7.04	261.30	\$275.54	\$570.65
Gordon #1	\$1,100,000	2,505.00	11.44	219.02	\$328.74	\$439.12
HOWMAINS #1	\$847,000	2,150.00	12.71	169.18	\$425.58	\$393.95
HUNGERFORD #1	\$915,000	2,196.00	8.46	259.63	\$277.32	\$416.67
IONA #2	\$1,458,000	1,650.00	9.83	167.80	\$429.09	\$883.64
LANGLEY #1	\$1,114,000	2,006.00	17.31	115.87	\$621.39	\$555.33
NAMGIB #1	\$577,000	1,387.00	5.17	268.45	\$268.20	\$416.01
PINE LODGE #1	\$1,000,000	2,150.00	26.28	81.81	\$880.12	\$465.12
SKULL CREEK #1	\$1,200,000	1,700.00	5.75	295.65	\$243.53	\$705.88
SKULL CREEK WEST # 1	\$1,261,075	2,000.00	7.21	277.46	\$259.50	\$630.54
Skull Creek North #1	\$969,311	1,810.00	11.60	155.98	\$461.60	\$535.53
Taralea #1	\$1,557,118	2,800.00	18.56	150.84	\$477.32	\$556.11
VAUGHAN #1	\$877,000	2,030.00	10.13	200.49	\$359.11	\$432.02
WALLABY CREEK #1	\$1,568,000	1,745.00	8.77	198.95	\$361.89	\$898.57

Multi well cost analysis
Cost per metre / metres per day
Comparative cost per hour value: \$3000.00



NPT ANALYSIS

WELL: TARALEA - 1

Problem Time Summary

A total of 71.0 hours of problem time occurred on Taralea - 1 representing 13.87% of total time on the well. The problem time primarily occurred due to communication with the mousehole, downhole tool failure, tight hole conditions and Drawwork's brake failure.

Primary problems (exceeding 2 hrs per individual event) were:

- 1. Tripping** - Several unscheduled trips were required. An 8-1/2" pilot hole was required to penetrate surface basalt. (2-1/2 hrs) A downhole motor failed and was pulled with tight hole experienced during the trip in. (7 hrs) The Kelly was dropped into the bushings and the drillstring pulled to check for bent pipe and swelled boxes. (14.0 hrs)
23.5 hrs Lost.
- 2. Tool Handling** - Re-install rathole and mousehole after washout from surface hole. Drilled out cement 12m to 27m. Layed out two downhole motors, one after failed attempt to set angle to 0 deg and the other motor failed downhole..Also layed down undergauge reamers and stabilisers. Serviced upper Kelly connections.
17.0 hrs Lost.
- 3. Wash/Ream** - Reamed tight surface hole to 36 mRT and opened the 8-1/2" pilot hole to 12-1/4" from 36m to 48 mRT. Wash and reaming was required while tripping through the Heathfield Sandstone Formation.
12.0 hrs Lost.
- 4. Down Hole Motor** - Time required to drill the 8-1/2" pilot hole using a down hole motor.
3.5 hrs Lost.
- 5. Wait on Cement** - Required for the remedial cement job on the washed out surface hole at 27m RT.
3.5 hrs Lost.
- 6. Circulation** - Failed attempt to prevent surface hole washout using Hi-Vis mud and LCM. Also, cleaned out mud rings in the flowline caused by soft clay cuttings from the Gellibrand Marl Formation.
3.0 hrs Lost.
- 7. Rig Repairs** - Drawworks brake failure, resulted in dropped Kelly. **2.5 hrs Lost.**

TIME BREAKDOWN DATABASE Trouble Time Analysis

Well Name : Taralea #1
 Drilling Co : O.D.E.
 Rig : 30
 Spud Date : 18.01.97

Total Time on Well 512.00
 Total Trouble Time 71.00
 % Trouble Time 13.87

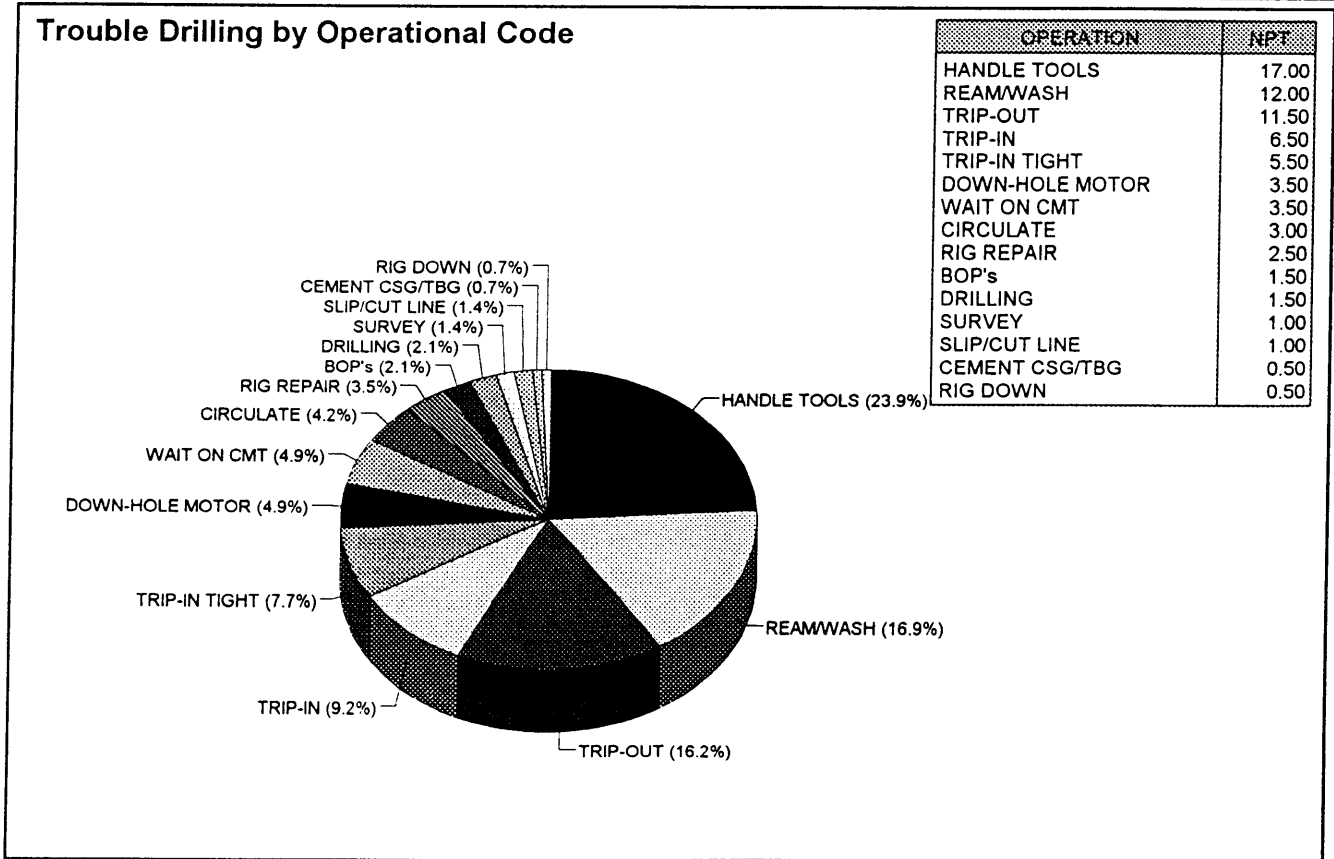
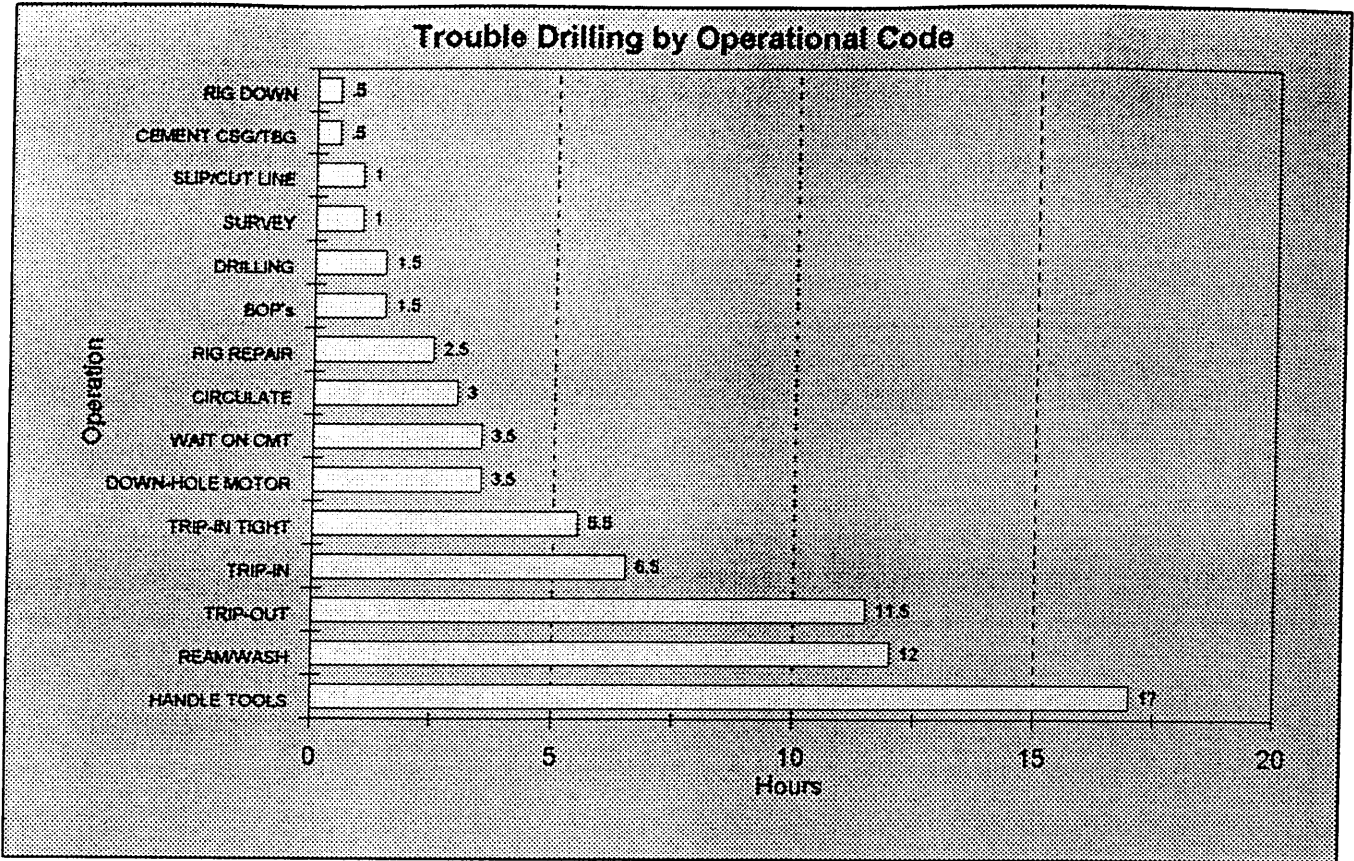
Total NPT Hours per Phase

PHASE	NPT HOURS
I1	36.00
S1	35.00

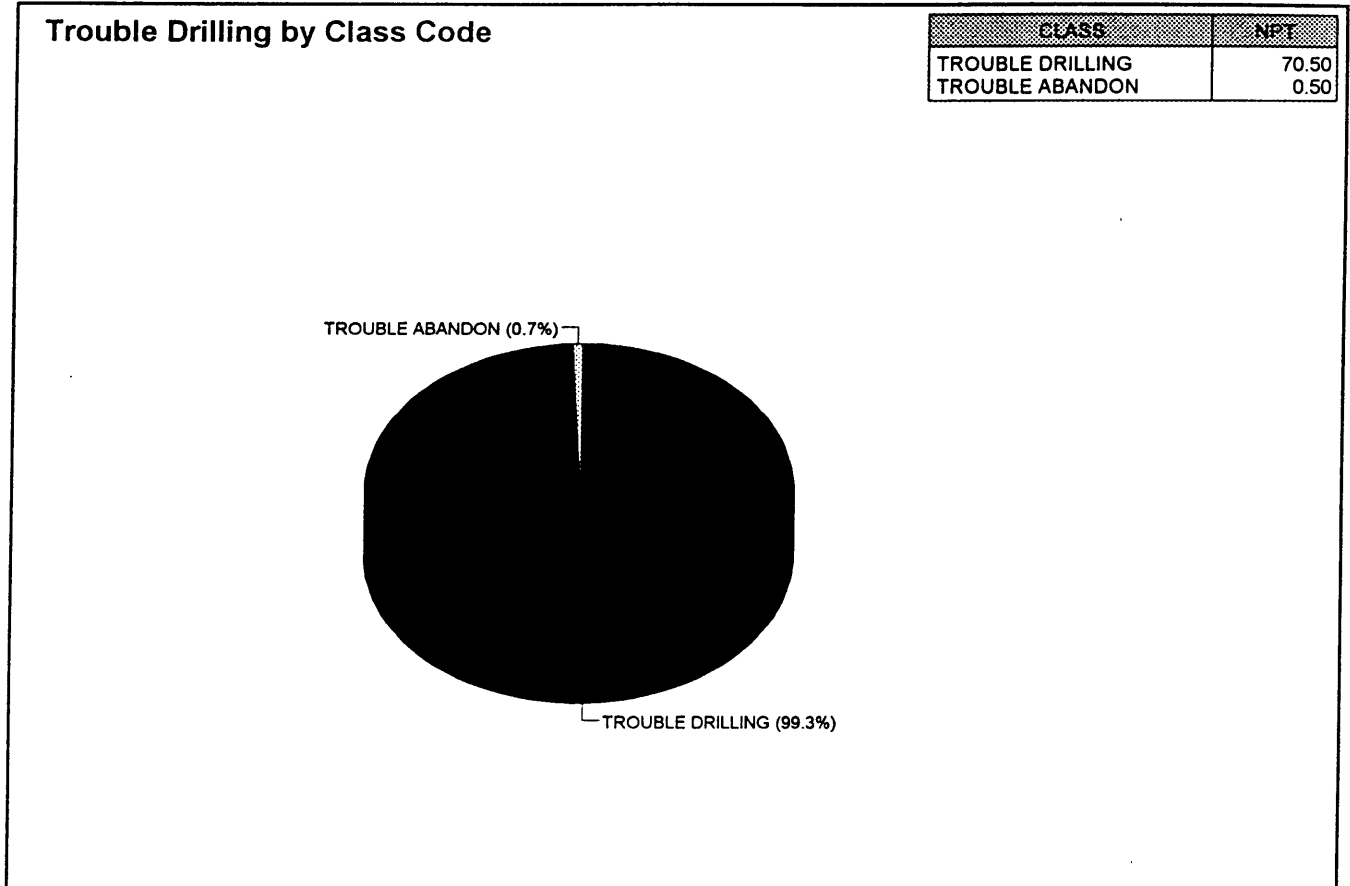
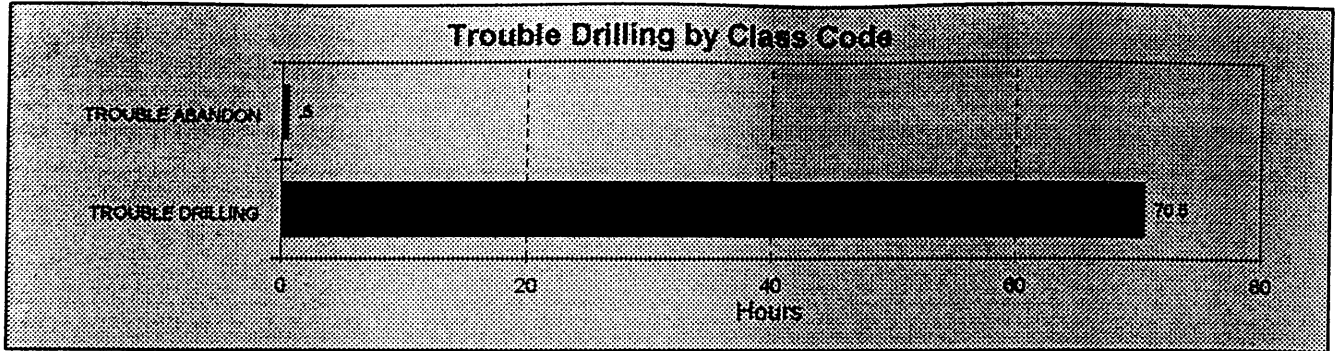
NPT On Well

PHASE	OPERATION	NPT Hrs	DEPTH	DESCRIPTION OF TROUBLE TIME
S1	CIRCULATE	1.00	27.0	Spot havis mud and LCM. Hole still washing out.
S1	CIRCULATE	1.00	27.0	Pull mousehole. Attempt to plug communication with sacks - no success.
S1	TRIP-OUT	0.50	27.0	POOH and stand back DC's.
S1	HANDLE TOOLS	0.50	27.0	Clean out mousehole.
S1	HANDLE TOOLS	1.50	27.0	Lay out mousehole. RIH w/- 2jts DP to 18m. Rig up Halliburton.
S1	CEMENT CSG/TBG	0.50	27.0	Pump 5BBL water. Mix and pump 44sx "G" cement at 15.8ppg (8BBL slurry). Displace with 0.5BBL water and flush lines. CIP 0755hrs.
S1	RIG DOWN	0.50	27.0	Rig down Halliburton. POOH w/- drill pipe. Pull kelly and rathole and hang in derrick.
S1	WAIT ON CMT	3.50	27.0	Wait on cement.
S1	HANDLE TOOLS	3.50	27.0	Re-install rathole. Clean out mousehole and re-install sock.
S1	HANDLE TOOLS	1.50	27.0	RIH and tag cement at 12.1m. Break out 8" DC and lay down same.
S1	HANDLE TOOLS	1.00	27.0	Drill cement 12m to 27m.
S1	TRIP-IN	0.50	34.0	POOH to change bit. RIH w/- insert bit.
S1	TRIP-OUT	0.50	36.0	POOH. Stand back 8" DC's.
S1	HANDLE TOOLS	1.00	36.0	Pick up 6 1/2" downhole motor. Unable to set angle to 0deg.
S1	HANDLE TOOLS	1.00	36.0	Pick up 2nd downhole motor. Make up 8 1/2" BHA
S1	DOWN-HOLE MOTOR	3.50	48.0	Drill 8 1/2" hole 36m to 48m. Broke out of basalt at 40m
S1	TRIP-OUT	1.00	48.0	POOH. Lay down motor.
S1	HANDLE TOOLS	1.00	48.0	Make up 12 1/4" BHA. Unable to go below 13m. Lay down 2 x 8" DC's.
S1	REAM/WASH	3.00	48.0	Ream 12 1/4" hole to 36m
S1	REAM/WASH	3.50	48.0	Open 8 1/2" pilot hole to 12 1/4" 36m to 39m
S1	REAM/WASH	2.00	48.0	Open hole to 12 1/4" 39m to 44m
S1	REAM/WASH	0.50	48.0	Open hole to 12 1/4" 44m to 48m
S1	CIRCULATE	0.50	363.0	Clean out mud rings in flow line.
S1	CIRCULATE	0.50	366.0	Clean out mud rings in flow line.
S1	BOP's	1.50	495.0	Rig up to test BOP's. Change rubber on cup tester.
I1	HANDLE TOOLS	2.00	1,462.0	Lay out motor. Pick up stabilizers to replace undergauge reamers. Make up new BHA.
I1	TRIP-IN	0.50	1,462.0	RIH
I1	TRIP-IN	1.00	1,462.0	Continue RIH to shoe.
I1	TRIP-IN TIGHT	2.50	1,462.0	RIH to 886m
I1	REAM/WASH	0.50	1,462.0	Fill pipe and break circulation. Wash and ream 886m to 917m.
I1	TRIP-IN TIGHT	1.50	1,462.0	RIH to 1161m
I1	REAM/WASH	0.50	1,462.0	Ream 1161m to 1183m
I1	TRIP-IN TIGHT	1.50	1,462.0	RIH to 1430m
I1	REAM/WASH	1.00	1,462.0	Wash and ream 1423m to 1462m
I1	DRILLING	1.50	1,468.0	Drill 8 1/2" hole 1462m to 1468m. ROP dropped to zero.
I1	SURVEY	0.50	1,468.0	Circulate. Drop survey.
I1	TRIP-OUT	3.00	1,468.0	POOH. Up to 20K drag at 1388m, 1351m and 1105m.
I1	HANDLE TOOLS	1.00	1,468.0	Lay down stabilizers. Top stabilizer 1/16" under gauge, NB stabilizer and Reamer in gauge. Recover survey - 2deg. Lay out short DC.
I1	RIG REPAIR	1.00	2,101.0	Brakes failed on connection. Kelly dropped into bushings and hook unlatched. Latch kelly and pick up string weight with zero drag and full weight.
I1	SLIP/CUT LINE	1.00	2,101.0	Slip and cut drilling line.
I1	SURVEY	0.50	2,101.0	Drop survey. Pump slug.
I1	TRIP-OUT	2.00	2,101.0	POOH. Check drill string for bent pipe or swelled boxes.
I1	TRIP-OUT	2.00	2,101.0	POOH. Check drill string for bent pipe or swelled boxes.
I1	TRIP-OUT	2.50	2,101.0	POOH with BHA. Break and service all connections.
I1	HANDLE TOOLS	0.50	2,101.0	Break out and lay down motor. Unable to rotate motor at surface.
I1	HANDLE TOOLS	0.50	2,101.0	Pick up kelly and check rollers.
I1	HANDLE TOOLS	0.50	2,101.0	Make up new BHA. Pick up Monel DC and HTC ATMG180D bit.
I1	TRIP-IN	1.50	2,101.0	RIH with BHA.
I1	HANDLE TOOLS	1.50	2,101.0	Break and service upper kelly connections.
I1	TRIP-IN	3.00	2,101.0	RIH to 2098m. Wash and ream 2098m to 2101m.

Well Name : Taralea #1



Well Name : Taralea #1



Well Name : Taralea #1

PHASE	OPERATION	NPT Hrs	DEPTH	DESCRIPTION OF TROUBLE TIME
I1	REAMWASH	1.00	2,126.0	Wash and ream 2062m to 2126m.
I1	RIG REPAIR	1.00	2,779.0	Lost 1200 psi pump pressure. Check surface equipment, rectify fault in SCR unit.
I1	RIG REPAIR	0.50	2,800.0	Changed out brake band on draw work - drillers side

Well Name : Taralea #1

Trouble During Formation Evaluation - Total Time (hrs) : 0.00

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DRILLING DATA

CASING & CEMENT



Cultus

CASING TALLY

Casing Size: 9 5/8 in.
 Total Depth: 495.00 mtr RT (driller)
 Total Casing Tally: 493.62 mtr
 Shoe off bottom: 2.23 mtr
 Stick up: 0.85 mtr
 RT to Bradenhead: 4.99 mtr



JOINT	LENGTH	DEPTH	JOINT	LENGTH	DEPTH	JOINT	LENGTH	DEPTH	JOINT	LENGTH	DEPTH
Shoe	0.52	492.77	41	11.85	17.44						
1	11.97	492.25	Land Jt	6.44	5.59						
Collar	0.38	480.28									
2	11.95	479.90									
3	11.92	467.95									
4	11.97	456.03									
5	11.90	444.06									
6	12.03	432.16									
7	12.01	420.13									
8	11.97	408.12									
9	12.00	396.15									
10	12.06	384.15									
11	12.02	372.09									
12	12.00	360.07									
13	12.02	348.07									
14	11.97	336.05									
15	12.10	324.08									
16	11.97	311.98									
17	12.08	300.01									
18	12.10	287.93									
19	11.97	275.83									
23	11.73	263.86									
22	11.84	252.13									
21	11.81	240.29									
20	11.70	228.48									
27	11.86	216.78									
26	11.70	204.92									
25	11.85	193.22									
24	11.80	181.37									
31	11.77	169.57									
30	10.77	157.80									
28	11.72	147.03									
35	11.86	135.31									
34	11.84	123.45									
33	11.85	111.61									
32	11.67	99.76									
39	11.62	88.09									
38	11.70	76.47									
37	11.86	64.77									
36	11.85	52.91									
43	11.85	41.06									
42	11.77	29.21									

Note: Leave out Joints #29, #40, #44, #45

Joints #1 to #19 are 47ppf, remainder are 43.5ppf



Cultus Group

CEMENTING REPORT

Well Name : Taralea #1
Rig Name : ODE Rig #30
Engineer : Alex Bradley

Date : 22-Jan-97
Casing Size : 9 5/8"
Casing MD/TVD : 492.77

<u>Hole Geometry</u>		<u>Mud Properties</u>		<u>Gas Reading</u>
Hole Size :	12 1/4"	Mud Wt :	8.9	Max Gas :
Hole MD :	495m	Vis :	31	Bitms Up :
Hole TVD :	495m	PV :	3	Final BG :
Hole Angle :	0.25deg	YP :	3	
Last Csg Size :	16"	WL :	15	
Last Csg MD :	12m	BHCT :		
Last Csg TVD :	12m	BHST :		

Casing Summary

Description	W (ft)	Grade	Conn	Length	Depth (ft)
Float Shoe	47	N80	Butt	0.52	492.25
1 x Joint	47	N80	Butt	11.97	480.28
Float Collar	47	N80	Butt	0.38	479.90
18 x joints	47	N80	Butt	216.04	263.86
22 x joints	43.5	N80	Butt	258.27	5.59

Centralizers

Manufacturer	Type	Quantity	Remark / Placement
Davis-Lynch	Spring-Bow	4	490, 477, 456, 444

Lead Cement Slurry Details

Weight (ppg)	Vol (bbl)	Mixwater (bbl)	Stucc	S Vol (liters)	Additives
12.5	107.8	83.5	287	2.11	3% PHG

Tail Cement Slurry Details

Weight (ppg)	Vol (bbl)	Mixwater (bbl)	Stucc	S Vol (liters)	Additives
15.8	25.4	15	124	1.15	1% CaCl2

Top Up Cement Slurry Details

Weight (ppg)	Vol (bbl)	Mixwater (bbl)	Stucc	S Vol (liters)	Additives

Operation Description

	Volume (bbl)	Time (min)	Volume (bbl)	Time (min)	Volume (bbl)	Time (min)
Volume (bbl)	150	20	110	25	112	
Time (min)	15	7	17	7	16	

Job Evaluation

Reciprocate : No
 Full Returns : Yes
 Cmt to Surface : Yes - 2bbl
 Bump Plug : Yes - 900psi (final circulating pressure 400psi)
 Pressure Test: Yes - 3000psi for 10mins
 ECP :

Remarks

CIP 1620hrs

BIT & HYDRAULIC RECORDS

Rig Bit Record

BIT RECORD		Company: <u>Cullus Petroleum NL</u>		Well: <u>Taralea #1</u>		IADC		Jets				Depth Out		Meatage		IADC Hours		Rotating Hours		ROP		WOB		RPM		Pressure		Flow		Date		IADC DULL BIT GRADING											
Run #	Size	Make	Type	Serial Number	Bit Code	1	2	3	4	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	O1	D	L	B	G	O2	R								
1/1	12 1/4"	REED	HP11	DJ4285	116	18	18	18	18	34	22	17.5	1.3	5/10	80	176	18/01/97	20/01/97	1	1	NO	A	E	1	NO	A	E	1	NO	A	E	1	NO	PR									
2/1	12 1/4"	SMITH	F2	LG4838	517	16	16	16	16	36	2	4	0.5	5/10	70	176	20/01/97	20/01/97	0	0	NO	A	E	1	NO	A	E	1	NO	A	E	1	NO	BHA									
3/3RR	8 1/2"	SMITH	MF15	LC2089	447	12	12	12	12	48	12	3.5	3.4	5/10	190	250	20/01/97	20/01/97	2	2	WI	MA	E	1	NO	BHA	E	1	NO	BHA	E	1	NO	BHA									
4/1RR	12 1/4"	REED	HP11	DJ4285	116	18	18	18	18	471	435	24	18.1	12/20	110	1250	20/01/97	21/01/97	1	3	WT	AG	F	1	RG	PR	E	1	RG	PR	E	1	RG	PR									
5/2RR	12 1/4"	SMITH	F2	LG4838	517	16	16	16	16	495	24	3	8.0	12/20	100	1650	21/01/97	21/01/97	1	1	NO	A	E	1	NO	A	E	1	NO	A	E	1	NO	TD									
6/4	8 1/2"	REED	EHP41ALK	DJ4141	417	12	12	12	12	1462	867	42.5	22.8	20/25	100	1650	23/01/97	23/01/97	8	8	BT	A	N	2	LT	PR	E	1	LT	PR	E	1	LT	PR									
7/5RR	8 1/2"	SMITH	SDGH	LC5030	135	13e	13e	16	16	1468	6	1.5	4.0	25/30	90	1050	26/01/97	26/01/97	2	3	BU	A	E	1	JD	PR	E	1	JD	PR	E	1	JD	PR									
8/6	8 1/2"	SMITH	MF05C	LF3389	427	13e	13e	16	16	1951	483	53.5	9.0	30	210	1820	27/01/97	29/01/97	2	4	CD	C3	F	1	BT	HR	E	1	BT	HR	E	1	BT	HR									
9/7	8 1/2"	SMITH	MF180D	LG1850	447	14e	14e	14e	14e	2101	150	18.5	8.1	35	200	1650	29/01/97	30/01/97	2	2	ER	A	N	1	T/C	DSF	E	1	T/C	DSF	E	1	T/C	DSF									
10/8	8 1/2"	HTC	ATMG180D	L01CF	447	13	13	13	13	2128	25	5.5	4.5	35	100	1580	31/01/97	31/01/97	1	2	BT	H13	E	1	CT	BHA	E	1	CT	BHA	E	1	CT	BHA									
11/8RR	8 1/2"	HTC	ATMG180D	L01CF	447	14	14	14	14	2615	489	59	8.3	35/37	225	1900	31/01/97	30/2/97	4	6	BT	A	E	1	ER	HR	E	1	ER	HR	E	1	ER	HR									
12/9	8 1/2"	SMITH	MF15	LF0271	447	14e	14e	16	16	2800	185	33	5.6	35	235	1950	30/2/97	6/02/97	3	3	BT	H	E	1	CT	TD	E	1	CT	TD	E	1	CT	TD									

BOTTOM HOLE ASSEMBLIES

Bottom Hole Assembly Summary

TARALEA - 1

Bit #	1	2	3	3a	4	5	6
BHA Type	Stabilised	Pendulum	Stabilised	Stabilised	Packed	Motor	Motor
Bit / Hole Size	12 1/4"	12 1/4"	12 1/4"	12 1/4"	8 1/2"	8 1/2"	8 1/2"
BHA Components	HP-11 NB Stabiliser 8" DC 12 1/4" Stabiliser 8" DC crossover	HP-11 Bit Sub 3 x 8" DC Crossover	F-2 NB Stabiliser 8" DC 12 1/4" Stabiliser 2 x 8" DC crossover	HP-11 NB Stabiliser 8" DC 12 1/4" Stabiliser 8" DC 12 1/4" Stabiliser crossover 9 x 6 1/2" DC Drilling Jars 2 x 6 1/2" DC 4 x 4 1/2" HWDP	EHP41HLK N/B Roller Reamer 6 1/2" pony DC Roller Reamer 6 1/2" DC Roller Reamer 6 1/2" DC Roller Reamer 15 x 6 1/2" DC Drilling Jars 2 x 6 1/2" DC 2 x 6 1/2" DC 4 x 4 1/2" HWDP	SDGH F2000S PDM crossover Roller Reamer 6 1/2" DC Roller Reamer 15 x 6 1/2" DC Drilling Jars 2 x 6 1/2" DC 10 x 4 1/2" HWDP	MF05C F2000S PDM crossover Roller Reamer 6 1/2" DC Roller Reamer 15 x 6 1/2" DC Drilling Jars 2 x 6 1/2" DC 10 x 4 1/2" HWDP

Bit #	7	8	9
BHA Type	Motor	Packed	Motor
Bit / Hole Size	8 1/2"	8 1/2"	8 1/2"
BHA Components	MF05OD F2000S PDM crossover Roller Reamer 6 1/2" DC Roller Reamer 15 x 6 1/2" DC Drilling Jars 2 x 6 1/2" DC 10 x 4 1/2" HWDP	ATMGT18OD NB Roller Reamer crossover Monel DC crossover Roller Reamer 6 1/2" DC Roller Reamer 15 x 6 1/2" DC Drilling Jars 2 x 6 1/2" DC 10 x 4 1/2" HWDP	ATMGT18OD FS000S PDM crossover Roller Reamer crossover Monel DC crossover Roller Reamer 16 x 6 1/2" DC Drilling Jars 2 x 6 1/2" DC 10 x 4 1/2" HWDP

DRILLING FLUID REPORTS

**Independent
Drilling
Fluid
Services Pty. Ltd**
A.C.N. 009 267 314



DRILLING FLUID SUMMARY

FOR : CULTUS LTD

WELL : TARALEA # 1

OTWAY BASIN

VICTORIA

Prepared by : Edd Perkins
Andre Skujins

Date : February 1997

Head Office: 248 Pirie Street
Adelaide S.A. 5000
Tel: (618) 8232 6771
Fax: (618) 8232 6764

Perth Office: 2/7 Pitt Way
Myaree W.A. 6154
Tel: (619) 330 8284
Fax: (619) 330 8283

P.O. Box 192, Glen Osmond S.A. 5064



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WELL : TARALEA # 1
RIG : ODE # 30
SPUD : 18th JANUARY 1997

1. SUMMARY OF OPERATIONS

HOLE SIZE : 12-1/4"
MUD TYPE : SPUD MUD - WATER
INTERVAL : 0 m - 495 m
CASING : 9-5/8" @ 492.8 m

Taralea # 1 was spudded by O.D. & E. Rig #30 on 18 January 1997. The water was predominantly from a nearby quarry and was tested to show the following results:

Chlorides	410 mg/l
Total Hardness	160 mg/l
Pf / Mf	0.25 / 0.46
pH	7.5

Initially, 180 bbls of IdGel based spud mud was built, containing 20 ppb bentonite and caustic soda for a pH of approximately 9.0 - 9.5. Untreated water was added into the remainder of the tanks. Shale shakers were dressed with 3 x S84 and S100/2 x S84 screens.

The initial drilling was with water, but the high viscosity mud was introduced once the pump strokes were reduced, due to the hard and slow drilling basalt encountered. Although hole cleaning was a concern at the lower annular velocity and was therefore the reason for introducing higher viscosity mud, it was also feared that extended circulating in essentially the same area may lead to washing out of the formation directly above the basalt.

While drilling the basalt, mud began to communicate with the surface through the Mouse Hole. Although a Gel - lost circulation material pill was pumped to rectify the situation, a cement plug had to be spotted prior to drilling ahead.

At 36 m, the bit was pulled and an 8½" bit was run in and drilled a pilot hole to 48 m. The 12¼" bit was run back in and reamed out the pilot hole and drilling continued.

The basalt took some time to drill through and porous limestone was underneath, so the high viscosity mud assisted to stem the minor losses.

As the Gellibrand Marl was encountered the viscosity was dropped and the pH was lowered to below 7.0 with SAPP and Alum and this was maintained throughout this section.

At 363 metres, a mud ring was encountered, although at that stage, the level of SAPP had been maintained at 2 pound per barrel. After it had been cleared, a potassium chloride (KCl) pill, which was suggested in the programme for mud ring problems, was pumped downhole. As this returned, with the accompanied high viscosity due to the flocculation the salt caused the spud mud, another mud ring had to be cleared away. Drilling then continued and revealed that the bottom of the Gellibrand Marl had been reached.

Due to the above mentioned problem, the viscosity was not raised in preparation for T.D, so leaving the pH at 6.0 - 6.5. There was a bit change at 471 metres and drilling resumed to 495 metres where a high viscosity sweep was used to ensure a clean hole. (The carbide showed a 12% excess hole gauge.)

The 9-5/8" casing was run to bottom with no problems and after circulating 150 barrels, the cement operation followed.

HOLE SIZE : 8½"
MUD TYPE : KCl PHPA POLYMER
INTERVAL : 495 m - 2800 m
CASING : P&A

The pits were dumped and cleaned, although 80 barrels of the previous section's mud was retained.

A new KCl PHPA fluid was built and extensively sheared so as to be sufficient for the shale shakers to cope at mud up. JK-261 was mixed at 0.7 ppb and KCl at 8 ppb or just over 2%.

An 8½" bit and BHA were run in the hole and the cement and shoe were drilled out with mud left from the previous interval, diluted back with water. Once on the shoe, the hole was displaced to the previously prepared KCl PHPA system.

Fine screens had been installed (S175) in two stages and these aided with keeping the mud weight down until the first trip 1462 m.

Fluid loss levels initially dropped simply with the addition of JK-261 (PHPA). However, as gel strengths rose and the fluid loss required further lowering to below 6 cc's, additions of Drispac were made. The low viscosity version (Drispac Plus Super Lo) also helped deflocculate the mud, thereby reducing gel strengths (and the yield point.) The high viscosity version (Drispac Plus Regular) helped prop up the yield point. Additions of Flowzan (Xanthum Gum) were not required for further building yield point at this stage of the well. The yield point was built up and maintained in the region of 15 - 25 lb/100ft² for this interval.

From the top of the Eumeralla formation, down hole seepage losses were noted. The seepage peaked at 20 bbl/hour but by 928 m, the seepage had healed over. However, losses were again noted at 1197 m.

All volume at this time was built from recycled sump water, which had already been pre-treated with Alum to drop out colloidal solids. Higher PHPA usage was noted while drilling through out the Eumeralla formation. KCl was also depleting, but with the upper limit on chlorides, the lowered potassium count had to be accepted.

During the period prior to the first trip at 1462 m, the chloride ratio to potassium ion content forced the input of KCl down (due to ceiling of the chloride content being 10000 mg/l) but due to this the trip out, proved difficult and so the parameters were changed to a minimum of greater than 2% potassium chloride (and maximum of 2.5%).

A further trip was initiated at 1468 metres. At this stage, the mud weight had crept up to 9.3 ppg, due to the pills used for both trips and the steady influx of solids as the trips dislodged filter cake also. With these two trips in close succession, the solids build-up in conjunction with low volume instigated a dilution and volume building exercise to control the mud weight. This not only had the desired effect of reducing the mud weight, but the lowered concentration of low gravity solids helped in reducing both gel strengths and the yield point.

Drilling continued, with the mud weight being maintained at around 9.1 ppg. The yield point was maintained around 20 - 22 lb/100ft² and the fluid loss around 6 cc's. A wiper trip was initiated at 1704 metres with no hole problems. At 1858 metres a further wiper trip was conducted and the bit was pulled out at 1951 metres (this bit was pulled out again at 2101 metres, due to a problem with the brakes, so the drill string needed to be checked).

It was requested at this time that the PHPA concentration be reduced to 1.0 ppb. However, as it was also aiding in maintaining the yield point as well as its encapsulating effect, a gradual drop in yield point was noted. Consequently, Flowzan (Xanthum Gum) was added to increase the yield point to above 15 lb/100ft². Drispac Regular was also helping in maintaining the yield point as well as keeping the fluid loss at 6 - 7 cc's. Decreasing the PHPA concentration proved to be uneconomical and the JK - 261 level was raised once again.

The bit was pulled out at 2126 metres with a wiper trip conducted at 2368 metres. All trips were essentially uneventful, although significant downhole losses were noted while running in the hole. For four following days, there was a trip a day and dilution premixes were the only way to minimise the weight increases.

A bit trip was initiated at 2615 metres. Drilling resumed, with slightly increased treatment rates required, due in part to the increasing temperature. To regain the desired yield point, higher additions of polymers were required and bentonite was also used. This caused an increase in the low gravity solids and incorporated with the tripping (and barytes used to trip with) the mud weight rose slowly with dilution premixes being used to slow the increase.



Down-hole losses were noticed and gel additions stemmed the losses for about three circulation's, but the polyacrylamide levels lowered the clay content and seepage recommenced. A polymer / polyacrylamide premix was tried, as was a high PHPA premix tried (a form of plastic coating) with the combination stopping the seepage for a period.

At 2674 metres, a possible fractured coal section was penetrated and 36 barrels were immediately lost - minor losses were noted after this time (from 1.0 to 1.5 barrels per hour).

As the T.D. approached, volume was built and properties were reinforced. The potassium ion and the polyacrylamide content were both increased. The sulphite level was boosted and biocide was introduced to ensure that there was a minimum degradation while logging.

Total depth of 2800 meters was reached. A wiper trip found the hole in good condition. No problems were noted while conducting the logging operation. Static down hole losses were 9.5 bbls while logging.

The Plug and Abandonment procedures took place on the 7th of February 1997.

2. WELL ANALYSIS

Taralea # 1 was drilled to a total depth of 2800 m for a mud cost \$55078.60 or \$19.76 per metre. A further \$2394.46 was spent during post logging operations.

12¼" Surface Hole

This section of hole was drilled for a mud cost of \$5464.91 or \$11.04 per metre. Despite considerable effort being put into preventing the formation of mud rings, these still caused some lost time. The second mud ring was probably caused by the anticipated remedial action of adding KCl. It was expected that the addition of KCl would prevent the marl cuttings from sticking together. This was, and still is, sound logic. However, KCl must be added to a basically circulating water system to prevent flocculation and a general thickening of mud. The flocculation the KCl caused had an identical effect to pumping a very high viscosity pill. All cuttings in the hole were brought up at the same time with the high viscosity mud and caused the second mud ring. Consequently, due to the high likelihood of causing flocculation and therefore high viscosity, this practice in the Gellibrand Marl is not recommended in the future unless the flocculating effects can be prevented by pumping a water spacer first.

The SAPP based mud proved to be reasonable and the conserving of this product (as the pH was low enough at 6.0 to 6.5) could well have been the cause of the first mud ring. The assumption was that the Gellibrand Marl was almost finished (which proved to be the case) and that to conserve the SAPP additions, would have been prudent. But in future, it is suggested that the pH is maintained at a maximum of 6.0 until the marl has been completely drilled through.

The 9-5/8" casing was run without any problems and this also suggests that the method adopted, was the right one.

8½" Production Hole

This section of hole was drilled for a mud cost of \$49613.69 or \$21.52 per metre, and was drilled essentially problem free. Minor tight hole on some trips was not cause for concern as the problem areas did not re-occur.

The assessment of the KCl/PHPA mud was that it performed best with over 1.0 ppb active polyacrylamide and 2.0 to 2.5% KCl. This was gleaned from using less KCl and finding that some problems occurred (especially during the wiper trips). With the higher levels being used, as was supported during the logging operations, no problems were encountered. Also, dropping the active PHPA concentration led to an increase in usage of polymers controlling the yield point and fluid loss.

One problem that will be on-going is the control of the mud weight. This is being assisted by the purchase of S210 Pyramid shale shaker screens (hopefully arrive prior to the next hole) but the amount of fluid dilution that was required, was the main reason that the chemical costs were climbing.

The cleaning of solids laden mud from the surface tanks, was systematically done to ensure that there was a minimum rise in weight, but then due to concerns that the daily cost were higher than preferred, less dilution was done while circulating down-hole losses were evident (static losses were minimal).

Solids Control

Given the equipment on the rig, solids control was as good as could have been expected. The desander and desilter were kept in good operating condition and the Linear Motion Shale Shakers performed well, to the degree that all screens were S175 for the entire interval. As mentioned, S210 screens will be a worthwhile trial on this rig.

Mud Program and Costs

Costs *appeared* higher than usual on this well. However, a number of factors influenced the cost in an upward direction.

- Tight control was required on the API Fluid Loss (5 - 6 cc's) from just under the 9-5/8" shoe. On previous wells, fluid loss control has been brought under control slowly, thus saving considerably on chemical costs. The tight control on fluid loss was done mainly for the prevention of formation damage, but also may have had the added benefit of reducing the extent of tight hole that may have been otherwise experienced.
- Yield point specifications were higher than normal. Based on the very poor gauge experienced on an offset well (Windermere # 2), it was believed that the higher yield point would be beneficial. (A long section of the 8½" hole at Windermere 2 was drilled with water / low yield point mud and gauge appeared to suffer accordingly.)
- An upper limit of 10000 mg/l was placed on the chloride concentration. This limited the amount of KCl to be added, and so extra JK-261 was required to maintain inhibition. Later in the well, the chlorides, and consequently the over all KCl concentration, were allowed to increase.
- Extremely tight mud weight specifications of maintaining the weight at or under 9.0 ppg were followed for as long as possible. Although the weight was not kept within these specifications, it was still kept as low as possible, with a total of around 750 bbls being dumped throughout the interval. A further 900 bbls of mud were lost to the hole (seepage losses to sands) and these losses were **deliberately not** treated with lost circulation material because the new volume required helped control the mud weight.

3. INTERVAL COSTS

Product	Interval :			12-1/4" Surface Hole 0 - 495 m			8-1/2" Mudded up Hole 495 m - 2800 m			Post TD Operations			Total Well Consumption 0 - 2800 m		
	Cost	Unit Size	Used	Cost	%Cost	Used	Cost	%Cost	Used	Cost	%Cost	Used	Cost	%Cost	
															Used
Alum	\$ 24.00	25 lbs				80	\$1,920.00	3.9%	80	\$1,920.00	80.2%	160	\$3,840.00	6.7%	
B54X	\$ 207.75	25 kg				4	\$831.00	1.7%	2	\$415.50	17.4%	6	\$1,246.50	2.2%	
Barite	\$ 6.20	25 kg				193	\$1,196.60	2.4%				193	\$1,196.60	2.1%	
Calcium Carbonate	\$ 4.52	20 kg				68	\$307.36	0.6%				68	\$307.36	0.5%	
Calcium Chloride	\$ 19.28	25 kg				2	\$38.56	0.1%	1	\$19.28	0.8%	3	\$57.84	0.1%	
Caustic Potash	\$ 39.68	20 kg				23	\$912.64	1.8%	1	\$39.68	1.7%	24	\$952.32	1.7%	
Caustic Soda	\$ 37.00	25 kg	3	\$111.00	2.0%							3	\$111.00	0.2%	
Floplex	\$ 85.00	25 kg				14	\$1,190.00	2.4%				14	\$1,190.00	2.1%	
Drispac Plus	\$ 152.28	23 lbs				20	\$3,045.60	6.1%				20	\$3,045.60	5.3%	
Drispac Plus LV	\$ 152.28	23 lbs				66	\$10,050.48	20.3%				66	\$10,050.48	17.5%	
Flowzan	\$ 423.50	25 kg				12	\$5,082.00	10.2%				12	\$5,082.00	8.8%	
IdGel	\$ 8.13	25 kg				31	\$252.03	0.5%				293	\$2,382.09	4.1%	
JK-261	\$ 137.25	25 kg				113	\$15,509.25	31.3%				113	\$15,509.25	27.0%	
KCl	\$ 25.70	50 kg				187	\$4,805.90	9.7%				187	\$4,805.90	8.4%	
KCl	\$ 12.85	25 kg				200	\$2,570.00	5.2%				240	\$3,084.00	5.4%	
Kwikseal F	\$ 18.25	18 kg				4	\$73.00	0.1%				11	\$200.75	0.3%	
Lime	\$ 7.25	25 kg				2	\$14.50	0.0%				2	\$14.50	0.0%	
SAPP	\$ 67.95	25 kg				38	\$2,582.10	47.2%				38	\$2,582.10	4.5%	
Soda Ash	\$ 15.75	25 kg				15	\$236.25	0.5%				15	\$236.25	0.4%	
Sodium Sulphite	\$ 23.56	25 kg				67	\$1,578.52	3.2%				67	\$1,578.52	2.7%	
Totals :				\$5,464.91	100.0%		\$49,613.69	100.0%		\$2,394.46	100.0%		\$57,473.06	100.0%	
Cost per metre :				\$11.04			\$21.52						\$20.53		

4. MATERIALS RECONCILIATION

Previous Well : -
 Well : Taralea # 1
 Transferred to : Skull Creek West # 1

PRODUCT	UNIT	TOTAL RECEIVED	TRANSFER TO COBDEN	TOTAL USED	TRANSFER BALANCE
Alum	25 kg	160		160	
Aquagel	25 kg	35		20	15
B54X	25 kg	8		6	2
Barite	25 kg	1243		193	1050
Bicarb Soda	25 kg	59	32		27
Calcium Carbonate	25 kg	68		68	
Calcium Chloride	25 kg	51	42	3	6
Caustic Potash	20 kg	24		24	
Caustic Soda	25 kg	29		3	26
Floplex	25 kg	60		14	46
Defoam L	25 kg	8			8
Drispac Plus	22.7 kg	64		20	44
Drispac Plus LV	22.7 kg	66		66	
Flowzan	25 kg	125	40	12	73
Idgel	25 kg	622	319	293	10
JK-261	25 kg	135		113	
KCl	50 kg	240		187	53
KCl	25 kg	240		240	
Kwikseal F	18.2 kg	79		11	68
Kwikseal M	18.2 kg	40			40
Lime	25 kg	94	54	2	38
Mica f	25 kg	40	40		
Pipe Free	205 kg	2			2
SAPP	25 kg	40		38	2
Soda Ash	25 kg	15		15	
Sodium Sulphite	25 kg	84		67	17



5. FLUID PROPERTIES SUMMARY

Date	Mud Type	Temp.	Depth	Weight	Vis	PV	YP	Gels			Filtrate		Solids				pH	Pm	Pf	Mf	Cl-	Ca++	SO ₃ ⁻	K ⁺	KCl	PHPA			
								10 sec	10 min	API	Solids	MBT	18.0	9.7	0.42	0.38										0.63	430	80	TR
18-Jan-97	Spud Mud	21	0	8.55	41	6	22	15	21.4	1.4	18.0	9.7	0.42	0.38	0.63	430	80												
18-Jan-97	Spud Mud	19	1	8.40	27					0.2	27.0	11.0	0.07	1.34		450	80												
19-Jan-97	Spud Mud	24	27	8.40	27					1.4	27.0	11.0	0.62	1.27		430	40												
19-Jan-97	Spud Mud	23	30	8.55	72	10	50	15	26.4	1.4	27.0	11.0	0.70	1.14		490	40												
20-Jan-97	Spud Mud	35	36	8.60	42	6	24	14	36.8	1.7	17.0	12.0	0.70	1.14		490	40												
20-Jan-97	Spud Mud	33	48	8.60	47	7	26	17	33.2	1.7	23.0	11.5	0.66	1.05		550	40												
21-Jan-97	Spud Mud	24	253	8.40	27					6.2	23.0	11.5	0.66	1.05		450	40												
21-Jan-97	Spud Mud	28	456	8.90	31	3	3	1	15.0	4.1	9.0	7.0	0.10	0.67		2,000	200												
22-Jan-97	Spud Mud	N.C	495	8.95	35	3	6	1	13.8	4.5	16.0	7.8	0.15	0.70		2,800	140												
23-Jan-97	KCl PHPA	22	498	8.50	33	6	5	2	23.4	0.6	2.0	9.0	0.36	0.32	0.95	10,600	120												
24-Jan-97	KCl PHPA	40	708	8.65	36	8	11	1	10.4	1.7	5.0	9.0	0.12	0.86		11,200	280												
24-Jan-97	KCl PHPA	41	823	8.80	45	13	24		7.2	3.6	6.0	9.0	0.24	0.18	0.70	11,000	400												
24-Jan-97	KCl PHPA	44	1054	8.90	60	13	26	4	6.3	3.6	6.0	9.0	0.24	0.18	0.70	11,000	400												
25-Jan-97	KCl PHPA	46	1305	9.00	60	14	16	6	5.9	4.4	8.0	8.7	0.18	0.12	0.90	9,800	420												
25-Jan-97	KCl PHPA	47	1353	9.05	61	14	21		5.8	4.8	8.0	8.9	0.22	0.18	0.64	10,400	340												
25-Jan-97	KCl PHPA	N.C	1462	9.05	58	14	20	5	5.4	4.8	6.0	8.8	0.22	0.18	0.64	9,400	580												
26-Jan-97	KCl PHPA	47	1468	9.30	63	16	24	9	6.0	6.5	10.0	8.8	0.24	0.20	0.68	12,600	620												
27-Jan-97	KCl PHPA	48	1524	9.20	65	15	33	16	5.6	5.7	12.0	9.0	0.25	0.20	0.78	13,600	620												
27-Jan-97	KCl PHPA	48	1569	9.20	64	15	24		5.2	10.0	9.0	9.0	0.27	0.23	0.85	12,600	700												
28-Jan-97	KCl PHPA	49	1663	9.05	57	14	20	5	5.3	4.6	8.0	8.8	0.27	0.23	0.85	12,600	700												
28-Jan-97	KCl PHPA	49	1742	9.10	52	15	23	7	5.8	5.0	9.0	8.7	0.15	0.18	0.87	12,100	720												
28-Jan-97	KCl PHPA	49	1771	9.10	60	14	22		6.3	8.8	8.8	8.8	0.15	0.18	0.87	12,100	720												
28-Jan-97	KCl PHPA	52	1850	9.10	55	14	21	7	6.4	4.9	7.0	8.9	0.2	0.22	0.76	14,300	760												
29-Jan-97	KCl PHPA	54	1850	9.10	52	13	24	10	6.6	4.7	8.0	8.7	0.15	0.20	0.73	16,400	800												
29-Jan-97	KCl PHPA	55	1951	9.10	53	12	22		7.2	8.5	8.5	8.5	0.15	0.20	0.73	16,400	800												
29-Jan-97	KCl PHPA	N.C	1951	9.10	57	13	22	11	6.8	4.8	7.0	8.8	0.20	0.65	15,700	760													
30-Jan-97	KCl PHPA	54	2010	9.10	47	12	16	1	6.7	4.7	8.0	8.8	0.2	0.16	0.64	17,300	760												
30-Jan-97	KCl PHPA	54	2051	9.10	45	11	18		6.8	6.0	6.0	9.0	0.16	0.64	17,300	760													
30-Jan-97	KCl PHPA	N.C	2101	9.10	44	12	17	5	6.5	4.8	6.0	8.5	0.15	0.15	0.70	15,300	720												
31-Jan-97	KCl PHPA	53	2105	9.15	44	11	16	6	7.1	5.2	11.0	8.5	0.22	0.16	0.62	15,200	700												
31-Jan-97	KCl PHPA	55	2126	9.15	46	13	18	6	6.8	5.2	10.0	8.8	0.2	0.20	0.64	15,600	780												
1-Feb-97	KCl PHPA	54	2178	9.15	42	10	15	6	7.6	5.2	14.0	8.7	0.18	0.20	0.66	15,400	700												
1-Feb-97	KCl PHPA	54	2206	9.15	43	10	18		7.3	8.0	8.0	8.0	0.18	0.20	0.66	15,400	700												
1-Feb-97	KCl PHPA	56	2206	9.20	45	14	16	4	6.6	5.5	10.0	9.0	0.2	0.18	0.47	17,200	680												
2-Feb-97	KCl PHPA	54	2371	9.20	54	16	18	3	6.3	5.5	10.0	8.5	0.15	0.16	0.50	16,900	600												
2-Feb-97	KCl PHPA	57	2400	9.20	54	15	17		5.6	8.0	8.5	8.5	0.15	0.16	0.50	16,900	600												
2-Feb-97	KCl PHPA	58	2463	9.20	53	14	18	3	6.2	5.6	10.0	8.5	0.16	0.14	0.55	15,400	580												
3-Feb-97	KCl PHPA	62	2548	9.25	56	17	20	3	5.6	6.0	13.0	9.0	0.2	0.14	0.45	15,000	560												
3-Feb-97	KCl PHPA	61	2576	9.35	55	16	24		5.3	6.4	12.0	9.0	0.02	0.12	0.48	14,800	580												
3-Feb-97	KCl PHPA	61	2615	9.30	53	16	19	2	5.6	6.4	12.0	9.0	0.15	0.10	0.38	14,400	480												
4-Feb-97	KCl PHPA	58	2634	9.35	55	18	23	3	5.7	6.8	12.0	9.0	0.15	0.10	0.38	14,400	480												
4-Feb-97	KCl PHPA	59	2651	9.35	50	17	22		5.5	6.3	10.0	9.0	0.15	0.10	0.38	14,100	500												
4-Feb-97	KCl PHPA	62	2698	9.30	54	17	20	2	6.2	6.3	10.0	8.8	0.2	0.18	0.46	16,200	500												
5-Feb-97	KCl PHPA	62	2765	9.30	56	16	24	2	6.8	6.2	12.0	9.8	0.14	0.12	0.52	16,800	480												
5-Feb-97	KCl PHPA	65	2784	9.30	55	15	24		7.2	8.0	8.0	9.0	0.14	0.12	0.52	16,800	480												
5-Feb-97	KCl PHPA	64	2800	9.30	50	16	23	3	6.3	6.2	10.0	8.8	0.2	0.10	0.55	17,600	420												
6-Feb-97	KCl PHPA	N.C	2800	9.30	55	16	24	4	5.7	6.2	11.0	9.0	0.22	0.14	0.58	17,800	400												

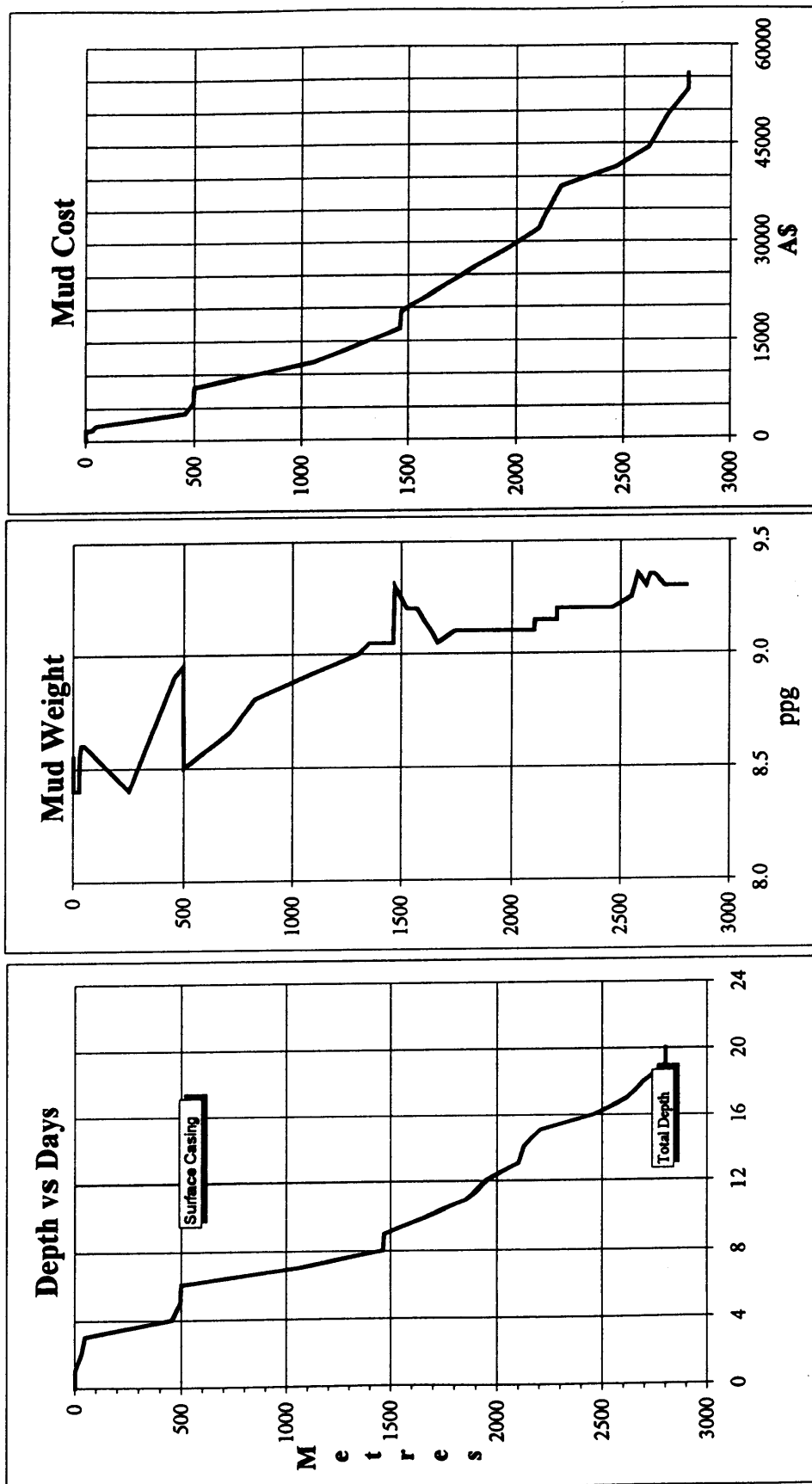


6. Mud Volume Analysis

Date	Hole Size	Interval		Fluid Built & Received						Fluid Disposed						Summary		
		From	To	Mud Type	Fresh Premix	Sump Premix	Direct Recirc	Water	Other	De-sander	De-silter	Down-hole	Dumped	Other	Initial	Received	Disposed	Final
18-Jan-97	12.25"	0 m	12 m	Spud Mud	167									0	167	22	145	
19-Jan-97	12.25"	12 m	31 m	Spud Mud	60		70			5	18			145	130	57	218	
20-Jan-97	12.25"	31 m	48 m	Spud Mud	50					10	23			218	50	62	206	
21-Jan-97	12.25"	48 m	471 m	Spud Mud	732					49	73	280		206	732	492	446	
22-Jan-97	12.25"	471 m	495 m	Spud Mud						6	28	257		446	0	318	128	
Sub Total					1009	0	70	0	0	70	154	537	132	1079	951			
23-Jan-97	8.5"	495 m	498 m	KCl/PHPA	559									128	559	153	534	
24-Jan-97	8.5"	498 m	1076 m	KCl/PHPA	80	292				33	112	142		534	292	266	560	
25-Jan-97	8.5"	1076 m	1462 m	KCl/PHPA	80	280		35		38	116	75		560	395	294	661	
26-Jan-97	8.5"	1462 m	1468 m	KCl/PHPA	80	120		35		11	95	21		661	155	133	683	
27-Jan-97	8.5"	1468 m	1677 m	KCl/PHPA	80	220				17	75	86		683	300	213	770	
28-Jan-97	8.5"	1677 m	1858 m	KCl/PHPA	55	220				39	39	122		770	275	220	825	
29-Jan-97	8.5"	1858 m	1951 m	KCl/PHPA		120				20	18	34		825	120	98	847	
30-Jan-97	8.5"	1951 m	2101 m	KCl/PHPA		195				51	17	68		847	195	170	872	
31-Jan-97	8.5"	2101 m	2126 m	KCl/PHPA		110				19	41	26		872	110	121	861	
1-Feb-97	8.5"	2126 m	2291 m	KCl/PHPA		170				21	57	18		861	170	142	889	
2-Feb-97	8.5"	2291 m	2471 m	KCl/PHPA		120				6	79	0		889	120	122	887	
3-Feb-97	8.5"	2471 m	2615 m	KCl/PHPA	30	220				10	76	56		887	250	171	966	
4-Feb-97	8.5"	2615 m	2705 m	KCl/PHPA		260				16	87	108		966	260	240	986	
5-Feb-97	8.5"	2705 m	2800 m	KCl/PHPA		223				6	76	55		986	223	162	1047	
6-Feb-97	8.5"	2800 m	2800 m	KCl/PHPA							21			1047	0	28	1019	
Sub Total					804	2550	0	70	0	287	909	897	362	3424	2533			
Well Total					1813	2550	70	70	0	357	1063	1434	494	4503	3484			

	Dilution Factors		
	Interval Length	Dilution Vol	Dilution Factor
12.25" Surface Hole	495 m	912 bbbls	1.84 bbbls/m
8.5" Main Hole	2305 m	2865 bbbls	1.24 bbbls/m

7. Graphs





8. BIT & HYDRAULICS

BIT RUN	SIZE	TYPE	JETS	DEPTH OUT	GPM	MUD WT	n	θ_{90}	DP	Q _{crit} ϕ	FLOW REGIME ϕ	DC	Q _{crit} ω	FLOW REGIME ω	JET VEL	IMPACT FORCE	HSI	BIT PRESS LOSS
1	12.25"	1.1.4	18 18 18	495 m	704	8.95	0.59	6	4.5"	253	Turbulent	8.0"	216	Turbulent	302	981	2.56	718
2	8.5"	4.1.7	12 12 12	1462 m	397	9.05	0.5	35	4.5"	503	Laminar	6.5"	365	Turbulent	383	710	4.87	1169
3	8.5"	1.3.5	13 13 16	1468 m	419	9.3	0.49	40	4.5"	544	Laminar	6.5"	393	Turbulent	294	591	3.11	708
4	8.5"	1.3.6	13 13 16	1951 m	391	9.1	0.46	34	4.5"	508	Laminar	6.5"	361	Turbulent	274	504	2.48	603
5	8.5"	4.4.7	14 14 14	2101 m	363	9.1	0.5	29	4.5"	442	Laminar	6.5"	321	Turbulent	257	438	2.02	531
6	8.5"	4.4.7	13 13 13	2126 m	419	9.15	0.51	31	4.5"	456	Laminar	6.5"	334	Turbulent	345	681	4.20	956
7	8.5"	4.4.7	14 14 14	2615 m	363	9.3	0.54	35	4.5"	476	Laminar	6.5"	355	Turbulent	257	448	2.07	542
8	8.5"	4.4.7	14 14 16	2800 m	391	9.3	0.5	39	4.5"	531	Laminar	6.5"	386	Turbulent	252	472	2.13	518



WELL NAME and No: **TARALEA #1** CONTRACTOR: **O. D. & E.**
 Well No: PEP 101 Location: Otway Basin State: Victoria RIG No: 30
 OPERATOR'S REPRESENTATIVE: **Alex BRADLEY** REPORT FOR: **Paul**

Drilling		Assembly		Casing		Mud Volume Bbls.		Circulation Data	
Bit size: 12.3	Type: 1.1.4	Jets: 3.18	16 inch @	Metres: Hole: 6	Pits: 106	Pump size: [2"]	6.0"	8.0 ins.	
DP: 4.5	Type: G	Length: 10	inch @	Metres: Drill String Cap: 1	Total Volume: 145	Make/Model 1: G D	PZ-8	% Effic: 0.97	
WT: 4.5	Type: 54.84	Length: ~	inch @	Metres: In Storage: 180	Weight: 8.6	Make/Model 2: G D	PZ-8	% Effic: 0.97	
DC: 6.5	Length: ~	Other: 192				Bbl/stk: 0.071	Stk/min: 100	Bbl/M: 7.13	
DC: 8	Length: ~					Bbl/stk: 0.071	Stk/min: ~	GPM: 299	

MUD TYPE: Gel - Spud

Mud Properties	
F/Line	F/Line
09.00	22.00
21	19
8.55	8.40
41	27
6	
22	
11	15
21.4	
5	1
~	0.2
1.4	~
~	99.8
Tr.	99.8
18.0	
9.7	
0.42	
0.38/0.63	0.28/0.5
4,300	4,200
80	160
~	~
~	~
~	~
~	~
~	~
~	~
3428/13	
26/22/11	

% O/G: 10.0 Annular Velocity

DP size: 4.5	57 (FUM) #####	Bbl/stk: 0.071	Stk/min: 100	Bbl/M: 7.13
DC size: 6.5	68 (FUM) #####	Bottoms up: 1	PRESSURE: 250	
DC size: 8	~ (FUM) #####	Total Circ.: 20	Type surf/sys: 3	

MUD PROPERTY SPECIFICATIONS

Weight: Min	Filtrate: N/C	Other: N/C
Viscosity: N/C	Plastic Viscosity: N/C	Yield Point: N/C

By Authority: ~ Operator's written ~ Drilling Contractor
 YES Operator's Representative ~ Other

FLUID SUMMARY AND RECOMMENDATIONS

The make-up water was found to be

Chlorides	4,100 ppm
Total Hardness	160 ppm
PI / MI	0.25 / 0.46
pH	7.5

After the pits were checked, they were filled with water, with 3 holding prehydrated Gel - Spud mud. These were pepped with Caustic Soda [to 20 ppb Bentonite].

OPERATIONS SUMMARY

After the Rat and Mouse holes were drilled using Spud mud, the Conductor section was tagged and the Basal section drilled out using water. Spud time was 20:30 hours.

MUD ACCOUNTING (BBLs.)

Fluid Built & Received	Fluid Lost or Disposed	Summary
Initial Volume	0	0
Fluid Received	167	167
Fluid Lost	22	22
Final Total	145	145
Received	167	Total Lost 22 (Circulating Vol.)

SOLIDS CONTROL EQUIPMENT

Type	Man. Hr.	Cones Hr.	Shakers	Screen Size	Hr.
Centrifuge	0	0	1	S110/S84/S84	15
Degasser	0	0	2	S64/S84/S84	2

SOLIDS EQUIPMENT EFFICIENCY

	Overflow (ppg.)	Underflow (ppg.)	Output (gal/m)
Desander	~	~	0
Desilter	~	~	0

Product	Inventory	Rec'd.	Used	Balance	Unit \$	Cost \$
Des	400		0	400	6.20	
Ca Soda	622	162	460	8.13	1,317.06	
	29	3	26	37.00	111.00	
		0				
		0				
		0				
		0				

SOLIDS ANALYSIS (ppb / %)

High Gravity Solids	Bentonite	Drilled Solids	Low Gravity Solids	Average S.G.	Med. "n"	Med. "K"	Low "n"	Low "K"
0.0	0.0	2.5	2.3	2.60	0.280	4.886	0.203	7.901
0.0	0.0	0.3	0.2	Solids	###	###	###	###

BIT / HYDRAULICS DATA

Jet Velocity	129 FT/SEC
Impact Force	168 LBS
HHP / in2	0.2
HHP	22
BR Press. Loss	124 PSI
Csg. Seat Frac Pres	10 PSI
Equiv. Mud Wt.	### PPG
ECD	### PPG
Crit. Flo @ DC/DP - GPM	### #DIV/0!

Daily Chemical Cost: \$ 1,428 Cumulative Cost: \$ 1,428

OPERATOR: **EDD PERKINS** ADDRESS: **South Australia** TELEPHONE: **08 - 338 3027**

Any opinion and / or recommendation, expressed orally or written herein, has been prepared carefully and maybe used if the user so elects, however, no representation or warranty is made on the part of our agents as to its correctness or completeness; and no liability is assumed for any damages resulting from the use of same.



WELL NAME and No.: **TARALEA #1** CONTRACTOR **O. D. & E.**
 Block No.: **PEP 101** Location: **Otway Basin** State: **Victoria** RIG No. **30**
 OPERATOR'S REPRESENTATIVE: **Alex BRADLEY** REPORT FOR **Paul COOPER**

Drilling		Assembly		Casing		Mud Volume Bbls.		Circulation Data	
Bit size 12.3	Type: 1.1.4	Jets: 3 x 18	16 inch @ 1.2	Metres	Hole: 12	Pits: 205	Pump size: [2"]	6.0" x 8.0 ins.	
P " 4.5	Type: G	Length 12.27	inch @	Metres	Drill String Cap.: 1	Total Volume: 218	Make/Model 1: G.D. PZ-8	% Effic 0.95	
Wt " 4.5	Type: 54.84	Length	~ inch @	~ Metres	In Storage: 82	Weight: 8.6	Make/Model 2: G.D. PZ-8	% Effic 0.95	
C " 6.5	Length	Other 3.56	MUD TYPE: Gel - Spud		% OG: 10.0	Annular Velocity	Bbl/stk 0.07	Stk/min 60	Bbl/M 4.19
C " 8	Length 18.73			Mud Properties	DP size 4.5	33 (FVM) Lam	Bbl/stk 0.07	Stk/min ~	GPM: 176
SAMPLE From					F/Line	F/Line	Bottoms up: 3 PRESSURE: 80		
TIME Sample Taken					15.00	22.30	Total Circ.: 52 Type surfays. 3		
Flowline TEMPERATURE deg. C					24	23	MUD PROPERTY SPECIFICATIONS		
DEPTH Metres					27	30	Weight: Min	Filtrate: N.C.	Other: N.C.
WEIGHT ppg.					8.40	8.55	Viscosity: N.C.	Plastic Viscosity: N.C.	Yield Point: N.C.
DINEL VISCOSITY (sec/qt) API @ 23 deg. C					27	72	By Authority: ~ Operator's written ~ Drilling Contractor		
PLASTIC VISCOSITY cP @ 60 deg. C						10	yes Operator's Representative ~ Other		
GEL POINT (lb/100R2)						50	FLUID SUMMARY AND RECOMMENDATIONS		
GEL STRENGTH (lb/100R2) 10 sec./10 min.						15	A high viscosity premix was built and used to maintain sufficient volume and lift, to clean the hole with the low annular velocity used while drilling the basalt.		
FILTRATE API (cm3 / 30 min.) @						26.4			
PI HTHP Filtrate (cm3 / 30 min.) @ ~ deg. C									
CAKE Thickness (32nd. In API/HTHP)						5			
SOLIDS Content (% by Vol) Calc. / Retort					0.2	1.4			
WATER Content (% by Vol) Oil/Water					~ 99.8	~ 98.6			
SAND Content (% by Vol)					Tr	Tr			
ETHYLENE BLUE CAPACITY x lb/bbl cm3/cm3						27.0			
PH Strip 23 deg. C					12.0	11.0			
ALKALINITY Mud (Pm)					N.C.	N.C.			
ALKALINITY Filtrate (PTM)					0.66/1.34	0.62/1.27			
CHLORIDE (mg/L)					4,500	4,300			
TOTAL HARDNESS (mg/L)					80	40			
SULPHATE (mg/L)									
CL (mg/L)									
SCL (% by wt)									
HPA (Calc. lb/bbl)									
HPA (Excess lb/bbl)									
RHEOLOGY - 600 / 300 / 6 (readings)						70/60/18			
RHEOLOGY - 200 / 100 / 3 (readings)						56/60/15			

MUD ACCOUNTING (BBLs.)				SOLIDS CONTROL EQUIPMENT			
Fluid Built & Received	Fluid Lost or Disposed	Summary		Type	Man. Hr.	Cones Hr.	Shaker/ Screen Size Hr.
remix	Desander 5	Initial Volume	145	Centrifuge	~ 0	D'sand 2 6	1 S110/S84/S84 14.5
w/ fresh water 60	Desilter 0			Degasser	Dnco 0	D'silte 12 0	2 S84/S84/S84 14.5
" recycled " 0	Downhole 18	Fluid Received	130	SOLIDS EQUIPMENT EFFICIENCY			
Drill Water 70	Dumped 0			Overflow (ppg) Underflow (ppg) Output (gal/m)			
Other 0	Other 34	Fluid Lost	57	Desander	8.6	11.2	0.6
		Final Total	218	Desilter	-	-	0
total Received 130	Total Lost 57	(Circulating Vol.)					

MUD ANALYSIS (ppb / %)						BIT / HYDRAULICS DATA					
Product	Inventory	Rec'd.	Used	Balance	Unit \$	Cost \$	High Gravity Solids	0.0	0.0	Jet Velocity	76 FT/SEC.
arytes	1003		0	1003	6.20		Bentonite	34.0	3.7	Impact Force	59 LBS.
							Drilled Solids	-21.6	-2.4	HHP / In2	0.0
: Gel	460		20	440	8.13	162.60	Low Gravity Solids	12.5	1.4	HHP	4
lastic Soda	26		0	26	37.00		Average S.G.	2.60	Solids	Bit Press. Loss	44 PSI
							Med. "n" #1ck. #2 ck	####	0.222	Cag. Seat Frac Pres	0 PSI
							Med. "K" " "	####	####	" Equiv. Mud Wt.	#### PPG
							Low "n" " "	####	0.301	ECD	#### PPG
							Low "K" " "	####	46.91	Crit.Flo @ DC/DP - GPM	2293 2619
Daily Chemical Cost: \$ 163							Cumulative Cost: \$ 1,591				

ENGINEER **EDD PERKINS** ADDRESS **South Australia** TELEPHONE **08 - 338 3027**
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WELL NAME and No. : TARALEA # 1				CONTRACTOR O. D. & E.													
Block No. : PEP 101		Location : Otway Basin		State : Victoria		RIG No. 30											
OPERATOR'S REPRESENTATIVE : Alex BRADLEY				REPORT FOR Paul COOPER													
Drilling		Assembly		Casing		Mud Volume Bbls.											
Bit size	12.3	Type	1.1.4	Jets	3 * 19	16	Inch @ 12.2 Metres										
DP	4.5	Type	G	Length	29.19		Inch @ Metres										
HWT	4.5	Type	54.84	Length			Metres										
DC	6.5	Length		Other	3.58		Metres										
DC	8	Length	18.81	MUD TYPE : Gel - Spud		% OG :	10.0										
SAMPLE From				F/Line		F/Line											
TIME Sample Taken				09.30		22.00											
Flowline TEMPERATURE				deg. C		35 33											
DEPTH Metres				36		48											
WEIGHT ppg.				8.60		8.60											
Funnel VISCOSITY (sec/qt) API @ 33 deg. C				42		47											
PLASTIC VISCOSITY cP @ 36 deg. C				6		7											
YIELD POINT (lb/100R2)				24		26											
GEL STRENGTH (lb/100R2) 10 sec. / 10 min.				14 17		17 19											
FILTRATE API (cm3 / 30 min.) @				36.8		33.2											
API HTHP Filtrate (cm3 / 30 min.) @ - deg. C				-		-											
CAKE Thickness (32nd in API/HTHP)				5		5											
SOLIDS Content (% by Vol)				Calc. / Retort		1.7 - 1.7											
LIQUID Content (% by Vol)				Oil/Water		- 98.3 - 98.3											
SAND Content (% by Vol)				Tr		Tr											
METHYLENE BLUE CAPACITY x lb/bbl cm3/cm3				17.0		23.0											
pH Strip				27 deg. C		12.0 11.5											
ALKALINITY Mud (Pm)				N.C.		N.C.											
ALKALINITY Filtrate (PPM)				0.7/1.14		0.86/1.05											
CHLORIDE (mg/L)				4,900		5,500											
TOTAL HARDNESS (mg/L)				40		40											
SULPHITE (mg/L)				-		-											
K+ (mg/L)				-		-											
KCL (% by Wt)				-		-											
PHPA (Calc. lb/bbl)				-		-											
PHPA (Excess lb/bbl)				-		-											
RHEOLOGY - 600 / 300 / 6 (readings)				36/30/19		40/33/27											
RHEOLOGY - 200 / 100 / 3 (readings)				28/26/17		32/29/25											
MUD ACCOUNTING (BBLs.)				SOLIDS CONTROL EQUIPMENT													
Fluid Built & Received		Fluid Lost or Disposed		Summary		Type	Man. Hr.	Cones	Hr.	Shaker#	Screen Size	Hr.					
Premix		Desander		10		Initial Volume		218		Centrifuge	0	D'sand	2	19	1	S110/S84/S84	17
w/ fresh water		Desilter		0		Fluid Received		50		Degasser	0	D'slter	12	0	2	S84/S84/S84	17
" recycled "		Downhole		23		Fluid Lost		62		SOLIDS EQUIPMENT EFFICIENCY							
Drill Water		Dumped		0		Final Total		206		Overflow (ppg.)		Underflow (ppg.)		Output (gal/m)			
Other		Other		29						Desander		8.6		10.8		0.4	
Total Received		Total Lost		62		(Circulating Vol.)				Desilter		-		-		0	
SOLIDS ANALYSIS (ppb / %)				BIT / HYDRAULICS DATA													
Product	Inventory	Rec'd	Used	Balance	Unit \$	Cost \$	High Gravity Solids	0.0	0.0	Jet Velocity	115 FT / SEC						
Barytes	1003	240	-	1243	6.20		Bentonite	28.4	3.1	Impact Force	136 LBS						
Id Gel	440		40	400	8.13	326.20	Drilled Solids	-13.2	-1.5	HHP / In2	0.1						
Caustic Soda	26			26	37.00		Low Gravity Solids	15.2	1.7	HHP	16						
Kwikseal - Fine	39	40	7	72	37.50	262.50	Average S.G.	2.60	Solids	Bit Press. Loss	101 PSI						
							Med. "n"	#1ck #2 ck	0.263	0.277	Csg. Seat Frac Pres	0 PSI					
							Med. "K"	-	5.823	29.905	Equiv. Mud Wt.	0 PPG					
							Low "n"	-	0.165	0.144	E C D	### PPG					
							Low "K"	-	10.638	68.68	Crit.Flo @ DC/DP - GPM	1832	2156				
Daily Chemical Cost :										Cumulative Cost :							
\$ 588										\$ 2,178							
ENGINEER EDD PERKINS				ADDRESS South Australia				TELEPHONE 08 - 338 3027									

FLUID SUMMARY AND RECOMMENDATIONS

The mud viscosity was diluted during tripping (to change the bit) and further bentonite was needed to maintain the carrying characteristics desirable for this stage (of this section).

Some loss was evident through surface equipment and once the limestone was penetrated, minor loss was noted from this time.

The pH was controlled by the cement (plug that was drilled out) and an increase was noted after the cement section was reamed out. This then slowly diminished as further volume was built.

The Kwikseal - Fine costed off in this period was used in the Report # 2 period.

OPERATIONS SUMMARY

Drilling continued to 34 metres, where the bit was changed and drilling continued to 36 metres. At this stage the bit was down-sized [to 8.5"] and a pilot hole was drilled to 48 metres. This then was enlarged to 12.25" to a depth of 39 metres at midnight.

Any opinion and / or recommendation, expressed orally or written herein, has been prepared carefully and maybe used if the user so elects, however, no representation or warranty is made by ourselves or our agents as to it's correctness or completeness; and no liability is assumed for any damages resulting from the use of same.



WELL NAME and No.: TARALEA # 1			CONTRACTOR O. D. & E.		
Block No.: PEP 101	Location: Otway Basin	State: Victoria	RIG No. 30		
OPERATOR'S REPRESENTATIVE: Alex BRADLEY			REPORT FOR Paul COOPER		

Drilling		Assembly		Casing		Mud Volume Bbls.		Circulation Data	
Bit size 12.3	Type: 1.1.4	Jets: 3" 18	16 inch @ 12.2 Metres	Hole: 213	Pits: 185	Pump size: 2" 6.0" 8.0 in.	Make/Model 1: G D PZ-8	% Effic. 0.95	
OP " 4.5	Type: G	Length 387.4	inch @ Metres	Drill String Cap.: 20	Total Volume: 445	Make/Model 2: G D PZ-8	% Effic. 0.95		
HWT " 4.5	Type: 54.84	Length 37.1	inch @ Metres	In Storage: 20	Weight: 8.6	BbWtk 0.0698 90/min	120	BbJM 16.76	
DC " 6.5	Length 18.75	Other 16	MUD TYPE: Gel - Spud	% O/G: 10.0	Annular Velocity	BbWtk 0.0698 90/min	120	GPM: 704	
DC " 8	Length 27.8			OP size 4.5	133 (FtM) Turb	Bottoms up: 13	PRESSURE: 1,350		
				DC size 6.5	160 (FtM) Turb	Total Circ.: 27	Type surfsys. 3		
				DC size 8	200 (FtM) Turb				

SAMPLE From		F/Line	F/Line
TIME Sample Taken		11.00	22.30
Flowline TEMPERATURE	deg. C	24	28
DEPTH Metres		253	456
WEIGHT PPE		8.40	8.90
Funnel VISCOSITY (sec/qt) API @ 22 deg. C		27	31
PLASTIC VISCOSITY cP @ 36 deg. C			3
YIELD POINT (lb/100RZ)			3
GEL STRENGTH (lb/100RZ) 10 sec. / 10 min.			1 2
FILTRATE API (cm3 / 30 min.) @			15.0
API HTHP Filtrate (cm3 / 30 min.) @	deg. C		
CAKE Thickness (32nd. in API/HTHP)			2
SOLIDS Content (% by Vol.) Calc. / Retort		0.5	4.1
LIQUID Content (% by Vol.) O/W Water		99.5	95.8
SAND Content (% by Vol.)		Tr	0.75
METHYLENE BLUE CAPACITY x lb/bbl cm3/cm3			9.0
pH Strip 20 deg. C		6.2	7.0
ALKALINITY Mud (Pm)		N.C.	N.C.
ALKALINITY Filtrate (PmM)			0.1/0.67
CHLORIDE (mg/L)		450	2,000
Total HARDNESS (mg/L)			200
SULPHITE (mg/L)			
K+ (mg/L)			
KCL (% by Wt.)			
PHPA (Calc. lb/bbl)			
PHPA (Excess lb/bbl)			
RHEOLOGY - 600 / 300 / 6 (readings)			9/6/1
RHEOLOGY - 200 / 100 / 3 (readings)			4/3/1

MUD PROPERTY SPECIFICATIONS			
Weight: Min	Filtrate: N.C.	Other: N.C.	
Viscosity: N.C.	Plastic Viscosity: N.C.	Yield Point: N.C.	
By Authority: -	Operator's written	-	Drilling Contractor
	YES Operator's Representative	-	Other

FLUID SUMMARY AND RECOMMENDATIONS

The viscosity of the mud was lowered once the pump strokes were increased so that by the time the Gellbrand Marl was penetrated, the pH had been lowered and the viscosity at a minimum.

A KCL 20 bbl. pill was built and placed on standby.

This section was drilled with a minimum weight fluid and the cuttings were monitored to maintain hole cleaning and minimum viscosity.

The SAPP content was maintained at a minimum of 2 ppb, although it was increased once the mud ring became evident.

Once the Marl was passed, the dilution regime was stopped and the system was built up [this encouraged the lowering of the fluid-loss, with no F / Loss additives, though the increase of the low gravity solids].

Please note that the make up water Chloride reading was incorrect, due to the concentration of the testing agent - the actual Chlorides are :- 410 ppm.

OPERATIONS SUMMARY

Drilled 12.25" hole to 363 metres where a mud ring came to the surface. This was cleared and a higher concentration of SAPP was added to the following dilutions [25 sx. had been used prior to this]. The KCL pill was pumped, but it raised the viscosity and caused another mud ring. This was cleared and drilling continued to 471 metres, where a trip to change the bit took place.

MUD ACCOUNTING (BBLs.)			
Fluid Bulk & Received	Fluid Lost or Disposed	Summary	
Premix	Desander 49	Initial Volume	206
w/ fresh water 732	Desilter 47		
" recycled " 0	Dewhole 73	Fluid Received	732
Drill Water 0	Dumped 280		
Other 0	Other 43	Fluid Lost	493
		Final Total	445
Total Received 732	Total Lost 493	(Circulating Vol.)	

SOLIDS CONTROL EQUIPMENT								
Type	Man.	Hr.	Cones	Hr.	Shaker	Screen Size	Hr.	
Centrifuge	-	0	D'sand	2	24	1	S110/S84/S84	24
Degasser	Drico	0	D'slitter	12	16	2	S84/S84/S84	24

SOLIDS EQUIPMENT EFFICIENCY			
	Overflow (ppg)	Underflow (ppg)	Output (gal/m)
Desander	8.9	9.7	1.4
Desilter	8.85	9.3	2.1

Product	Inventory	Rec'd.	Used	Balance	Unit \$	Cost \$
Barytes	1243			1243	6.20	
Id Gel	400			400	8.13	
Lime	40			40	7.25	
SAPP	40	38	2	2	35.40	1,345.20
KCL - Tech.	240	40	200	200	12.85	614.00

SOLIDS ANALYSIS (ppb / %)		BIT / HYDRAULICS DATA	
High Gravity Solids	0.0 0.0	Jet Velocity	303 FT/SEC
Bentonite	6.9 0.8	Impact Force	982 LBS
Drilled Solids	30.9 3.4	MHP / in2	2.5
Low Gravity Solids	37.7 4.1	MHP	299
Average S.G.	2.60 Solids	BK Press. Loss	728 PSI
Med. "n" #1CK # 2 ck	0.585	Csg. Seat Frac Pres	0 PSI
Med. "K" . . .	0.900	" Equiv. Mud Wt.	0 PPO
Low "n" . . .	0.389	E C D	### PPO
Low "K" . . .	#DIV/0! 2.71	Crit. Flo @ DC/DP - GPM	496 556
Daily Chemical Cost: \$ 1,860		Cumulative Cost: \$ 4,038	

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WELL NAME and No. : TARALEA # 1				CONTRACTOR O. D. & E.			
Block No. : PEP 101		Location : Otway Basin		State : Victoria		RIG No. : 30	
OPERATOR'S REPRESENTATIVE : Alex BRADLEY				REPORT FOR : Paul COOPER			
Drilling		Assembly		Casing		Mud Volume Bbls.	
Bit size 12.3	Type : 1.1.4	Jets 3" x 18	16 inch @ 12.2 Metres	Hole : 97	Pits : 20	Circulation Data	
DP " 4.5	Type : G	Length 411.4	9.675 inch @ 492.8 Metres	Drill String Cap. : 21	Total Volume : 128	Make/Model 1 : G D PZ-8	% Effic 0.95
HWT " 4.5	Type : 54.84	Length 37.1	~ inch @ ~ Metres	In Storage : 85	Weight : 8.95	Make/Model 2 : G D PZ-8	% Effic 0.95
DC " 6.5	Length 18.75	Other 16	MUD TYPE : Gel - Spud		% O/G : ~	Annular Velocity	Bbl/stk 0.07 Stk/min 120
DC " 8	Length 27.8		Mud Properties		DP size 4.5	133 (FtM) Turb	Bbl/stk 0.07 Stk/min 120
SAMPLE From				Pit		Bottoms up : 5 PRESSURE : 1,350	
TIME Sample Taken				21.00		Total Circ. : 8 Type surflays. 3	
Flowline TEMPERATURE				deg. C		MUD PROPERTY SPECIFICATIONS	
DEPTH Metres				495		Weight : Min	Filtrate : NC
WEIGHT Ppg.				8.95		Viscosity : NC	Plastic Viscosity : NC
Funnel VISCOSITY (sec/qt) API @ 22 deg. C				35		Yield Point : NC	
PLASTIC VISCOSITY cP @ 36 deg. C				3		By Authority : ~ Operator's written ~ Drilling Contractor	
YIELD POINT (lb/100ft ²)				6		yes Operator's Representative ~ Other	
GEL STRENGTH (lb/100ft ²) 10 sec. / 10 min.				1 2		FLUID SUMMARY AND RECOMMENDATIONS	
FILTRATE API (cm ³ / 30 min.) @				13.8		The 12-1/4" section carbide check revealed a 12% gauge excess.	
API HTHP Filtrate (cm ³ / 30 min.) @ ~ deg. C				~		A high viscosity pill was made to be used at Casing point, as explained below.	
CAKE Thickness (32nd. in API/HTHP)				2 ~		No treatment to the system took place in this period.	
SOLIDS Content (% by Vol.) Calc. / Retort				-82.5 ~ 4.5 ~		At the end of the cement operation, the surface system was dumped and pits were cleaned.	
LIQUID Content (% by Vol.) Oil/Water				~ 162.5 ~ 95.5		Mud from the previous section was retained to be used for the 8-1/2" section.	
SAND Content (% by Vol.)				Tr		Once the pits were cleaned, PHPA was added and shearing began.	
METHYLENE BLUE CAPACITY X lb/bbl cm ³ /cm ³				16.0		Wyoming Gel was used in the cement operation and so it's cost was not added to the drilling fluid cumulative costs.	
pH Strip 20 deg. C				7.8		OPERATIONS SUMMARY	
ALKALINITY Mud (Pm)				~ N.C.		Completed the bit trip and resumed drilling the 12.25" hole to 495 m'trs.	
ALKALINITY Filtrate (PmM)				0.15/0.7		Circulated a high viscosity sweep [20bbls.] to surface and pulled out to run the 9-5/8" Casing. This was completed with no problems and the hole was then circulated clean.	
CHLORIDE (mg/L)				2,800		The cement operation followed with no problems and the preparation of the 8.5" section took place there - after.	
Total HARDNESS (mg/L)				140		SOLIDS CONTROL EQUIPMENT	
SULPHITE (mg/L)				~		Type Man. Hr.	
K+ (mg/L)				~		Cones Hr.	
KCL (% by Wt.)				~		Shaker# Screen Size Hr.	
PHPA (Calc. lb/bbl)				~		Centrifuge 0 0'sand 2 3.5 1 S110/S84/S84 5	
PHPA (Excess lb/bbl)				~		Degasser Enrico 0 0'slitter 12 3.5 2 S84/S84/S84 5	
RHEOLOGY - 800/300/5 (readings)				12/9/2		SOLIDS EQUIPMENT EFFICIENCY	
RHEOLOGY - 200/100/3 (readings)				6/5/2		Overflow (ppg.) Underflow (ppg.) Output (gal/m)	
MUD ACCOUNTING (BBLs.)				SOLIDS ANALYSIS (ppb / %)			
Fluid Built & Received		Fluid Lost or Disposed		Summary		BIT / HYDRAULICS DATA	
Premix	Desander 6	Initial Volume	445	High Gravity Solids 0.0 0.0		Jet Velocity 303 FT / SEC	
w/ fresh water 0	Desilter 11	Fluid Received	0	Bentonite 15.8 1.7		Impact Force 988 LBS	
" recycled " 0	Downhole 28	Fluid Lost	317	Drilled Solids 24.9 2.7		HHP / in2 2.6	
Drill Water 0	Dumped 256	Final Total	128	Low Gravity Solids 40.7 4.5		HHP 301	
Other 0	Other 16	(Circulating Vol.)		Average S. G. 2.60 Solids		Bit Press. Loss 732 PSI	
Total Received 0	Total Lost 317			Med. "n" ~ 0.415		Csg. Seat Frac Pres ~ PSI	
				Med. "K" ~ 3.462		Equiv. Mud Wt. ~ PPG	
				Low "n" ~ 0.477		E C D 9.05 PPG	
				Low "K" ~ 2.35		Crt.Flo @ DC/DP - GPM 541 593	
Daily Chemical Cost \$ 1,612				Cumulative Cost \$ 5,649			
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WELL NAME and No.: TARALEA # 1			CONTRACTOR O. D. & E.		
Block No.: PEP 101	Location: Otway Basin	State: Victoria	RIG No. 30		
OPERATOR'S REPRESENTATIVE: Alex BRADLEY			REPORT FOR Paul COOPER		

Drilling Assembly		Casing		Mud Volume Bbls.		Circulation Data	
BK size 8.5	Type: 4.1.7	Jets: 3 x 12	16 inch @ 12.2 Metres	MoL: 76	Pts: 392	Pump size: [2"] 6.0" x 8.0 Ins.	
DP " 4.5	Type: G	Length 287.1	9.675 inch @ 492.8 Metres	Drill String Cap.: 19	Total Volume: 534	Make/Model 1: G D. PZ-8	% Effc. 0.95
HWT " 4.5	Type: 37.1	Length 37.1	~ inch @ ~ Metres	In Storage: 85	Weight: 8.8	Make/Model 2: G D. PZ-8	% Effc. 0.95
DC " 6.5	Length 173.8	Other 15.21	MUD TYPE: KCL - PHPA		% O/G: ~	Annular Velocity	Bbl/Min 0.0685 Sd/min 75
DC " ~	Length ~				DP size 4.5	:192 (Ft/M) Turb	Bbl/Min 0.0685 Sd/min 75
SAMPLE From				F/Line		Bettoms up: 8	
TIME Sample Taken				23.30		PRESSURE: 1,500	
Flowline TEMPERATURE				deg. C		DC size ~	
DEPTH				Metres		:142 (Ft/M) ~	
WEIGHT				PPG		Total Circ.: 54	
Funnel VISCOSITY (sec/cst) API @ 22 deg. C				33		Type surfays. 3	
PLASTIC VISCOSITY cP @ 36 deg. C				5			
YIELD POINT (lb/1000Ft)				5			
GEL STRENGTH (lb/1000Ft) 10 sec. / 10 min.				2 2			
FILTRATE API (cm ³ / 30 min.) @				23.4			
API HTHP Filtrate (cm ³ / 30 min.) @ ~ deg. C				-			
CAKE Thickness (32nd. in API/HTHP)				1 -			
SOLIDS Content (% by Vol.) Calc. / Retort				-62.5 0.6 -			
LIQUID Content (% by Vol.) Oil/Water				- 102.5 99.4			
SAND Content (% by Vol.)				Tr			
METHYLENE BLUE CAPACITY x lb/bbl cm ³ /cm ³				2.0			
pH Strip 20 deg. C				9.0			
ALKALINITY Mud (Pm)				- 0.38			
ALKALINITY Filtrate (PPM)				0.32/0.95			
CHLORIDE (mg/L)				10,600			
Total HARDNESS (mg/L)				120			
SULPHITE (mg/L)				- Tr			
K+ (mg/L)				- 9,800			
KCL (% by Wt.)				- 2.02			
PHPA (Calc. lb/bbl)				- 1.49			
PHPA (Excess lb/bbl)				- 0.89			
RHEOLOGY - 800 / 300 / 8 (readings)				1510/2			
RHEOLOGY - 200 / 100 / 3 (readings)				8/8/2			

MUD PROPERTY SPECIFICATIONS			
Weight:	< 9.2	Filtrate:	decrease to 6.0
Viscosity:	N.C	Plastic Viscosity:	N.C
By Authority:	~	Operator's written	~
	YES	Operator's Representative	~
		Drilling Contractor	~
		Other	~

FLUID SUMMARY AND RECOMMENDATIONS

Mbing of the new PHPA / KCL system was completed and shearing took place for the whole system.

The mud retained from the previous section, was polymer encapsulated and PHPA treated, to be added once drilling commenced.

MUD ACCOUNTING (BBLs.)		
Fluid Built & Received	Fluid Lost or Disposed	Summary
Premix	Desander 0	Initial Volume 128
w/ fresh water 559	Desilter 0	
" recycled " 0	Downhole 0	Fluid Received 559
Drill Water 0	Dumped 142	
Other 0	Other 11	Fluid Lost 153
		Final Total 534
Total Received 559	Total Lost 153	(Circulating Vol.)

SOLIDS CONTROL EQUIPMENT					
Type	Man. Hr.	Cones Hr.	Shakers	Screen Size	Hr.
Centrifuge	~ 0	D'sand 2	0	1 S175/S175/S175	2
Degasser	Drico 0	D'silter 12	0	2 S175/S84/S84	2

SOLIDS EQUIPMENT EFFICIENCY			
	Overflow (ppg.)	Underflow (ppg.)	Output (gal/hr)
Desander	~	~	0
Desilter	~	~	0

Product	Inventory	Rec'd.	Used	Balance	Unit \$	Cost \$
Barytes	1243		~	1243	8.20	
Id Gel	41		1	40	8.13	8.13
Causitic Polish	23			23	39.88	
JK - 261	99		7	92	137.25	960.75
KCL - Tech.	200		80	120	12.85	1,020.00
Biocide - B54X	5	3		8		
KCL - Agri.		144		144		
Sod. Sulphite	40		6	34	23.56	141.36
Drispac - Reg.	64		1	63	156.28	156.28

SOLIDS ANALYSIS (ppb / %)		BIT / HYDRAULICS DATA	
High Gravity Solids	0.0	0.0	Jet Velocity 406 FT/SEC.
Bentonite	1.9	0.2	Impact Force 748 LBS.
Drilled Solids	3.3	0.4	HHP / In2 5.4
Low Gravity Solids	5.2	0.6	HHP 305
Average S. G.	2.60	Solids	BK Press. Loss 1247 PSI
Med. "h"	#1ck #2 ck ~	0.585	Csg. Seat Frac Pres 370 PSI
Med. "K"	" " ~	1.334	" Equiv. Mud Wt. 12.90 PPG
Low "h"	" " ~	0.349	E C D 8.74 PPG
Low "K"	" " ~	5.78	Crit.Flo @ DC/DP - GPM 260 389
Daily Chemical Cost:		Cumulative Cost:	
\$ 2,296		\$ 7,944	

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WELL NAME and No. : TARALEA # 1			CONTRACTOR O. D. & E.		
Block No. : PEP 101	Location : Otway Basin	State : Victoria	RIG No. 30		
OPERATOR'S REPRESENTATIVE : Alex BRADLEY			REPORT FOR Paul COOPER		

Drilling		Assembly		Casing		Mud Volume Bbls.		Circulation Data	
Bit size 8.5	Type 4.1.7	Jets 3 x 12	16 Inch @ 12.2 Metres	Hole 197	Pits 335	Pump size [2'] 6.0" x 8.0 ins.			
DP 4.5	Type G	Length 865.1	9.875 Inch @ 492.8 Metres	Drill String Cap. 48	Total Volume 560	Make/Model 1: G D PZ-8	% Effic 0.95		
HWT 4.5	Type 37.1	Length 37.1	~ Inch @ ~ Metres	In Storage 60	Weight 8.6	Make/Model 2: G D PZ-8	% Effic 0.95		
DC 8.5	Length 173.8	Other 15.21	MUD TYPE: KCL - PHPA		% O/G: 15.0	Annular Velocity	Bbl/stk 0.067 Stk/min 73	Bbl/M 9.71	
DC ~	Length ~				DP size 4.5	192 (FvM) Lam	Bbl/stk 0.067 Stk/min 73	GPM 408	

SAMPLE From		F/Line	F/Line
TIME Sample Taken		09.30 13.30	23.00
Flowline TEMPERATURE	deg. C	40 41	44
DEPTH	Metres	708 823	1,054
WEIGHT	ppg	8.65 8.80	8.90
Funnel VISCOSITY (sec/qt.) API @ 34	deg. C	36 45	60
PLASTIC VISCOSITY cP @ 60	deg. C	8 13	13
YIELD POINT (lb/100R2)		11 24	26
GEL STRENGTH (lb/100R2) 10 sec. / 10 min.		1 2 4 9	
FILTRATE API (cm3 / 30 min.) @		10.4 7.2	6.3
API HTHP Filtrate (cm3 / 30 min.) @	deg. C	-	-
CAKE Thickness (32nd. in API/HTHP)		1 - 1	-
SOLIDS Content (% by Vol.)	Calc. / Retort	1.7 - 3.6	-
LIQUID Content (% by Vol.)	Oil/Water	- 98.3	- 96.4
SAND Content (% by Vol.)		0.25 0.75	0.13
METHYLENE BLUE CAPACITY x lb/bbl	cm3/cm3	5.0 7.0	6.0
pH	Strip	19 deg. C	9.0 9.0 9.0
ALKALINITY Mud (Pm)		-	0.24
ALKALINITY Filtrate (PmM)		0.12/0.86	0.18/0.7
CHLORIDE (mg/L)		11,200 10,000	11,000
Total HARDNESS (mg/L)		280 360	400
SULPHITE (mg/L)		140 120	150
K+ (mg/L)		11,000 7,300	5,700
KCL (% by Wt.)		2.25 1.50	1.16
PHPA (Calc. lb/bbl)		1.38 1.5	1.81
PHPA (Excess lb/bbl)		0.96 -	1.12
RHEOLOGY - 600/300/16 (readings)		27/19/2 80/37/7	62/39/6
RHEOLOGY - 200/100/3 (readings)		14/10/3 31/23/6	32/26/6

MUD PROPERTY SPECIFICATIONS		
Weight : < 9.2	Filtrate : decrease to 6.0	Other : Chlorides max @ 12,000
Viscosity : NC	Plastic Viscosity : NC	Yield Point : 15 - 30
By Authority : ~ Operator's written ~ Drilling Contractor yes Operator's Representative ~ Other		

FLUID SUMMARY AND RECOMMENDATIONS

Through the shearing action and emulsification, the fluid loss dropped, initially, without additives to assist in this process, but polymer additions for fluid loss and to limit rising gel strengths were needed later in this period. With the continued additions of formulated PHPA, the Yield Point increased to the preferred levels.

Down-hole losses were noted from the top of the Eumeralla formation and this assisted to slow the weight increase due to the volumetric dilution. Losses peaked at 20 bbls. per hour, but by 928 metres, the seepage had healed over.

Alum was used to treat the sump water and in-turn, this was used to build volume.

OPERATIONS SUMMARY

Drilled 8 1/2" hole from the Pember mud-stone through silt-stone and sand-stone causing a build-up in low gravity solids. The shale shaker screens were again changed to a finer mesh [S175 - Pyramid] and the Desander & Desilter were operated. The sand trap was dumped when ever there was build-up in solids (collected).

MUD ACCOUNTING (BBLs.)			
Fluid Built & Received	Fluid Lost or Disposed	Summary	
Premix	Desander 33	Initial Volume	534
w/ fresh water 0	Desilter 17	Fluid Received	292
" recycled " 292	Downhole 112	Fluid Lost	266
Drill Water 0	Dumped 86	Final Total	560
Other 0	Other 18		
Total Received 292	Total Lost 266	(Circulating Vol.)	

SOLIDS CONTROL EQUIPMENT					
Type	Man. Hr.	Cones Hr.	Shaker#	Screen Size	Hr.
Centrifuge	0	2 24	1	S175/S175/S175	24
Degasser	0	12 10	2	S175/S175/S175	24

SOLIDS EQUIPMENT EFFICIENCY			
	Overflow (ppg.)	Underflow (ppg.)	Output (gal/m)
Desander	8.9	12.3	1.0
Desilter	8.85	10.8	1.2

Product	Inventory	Rec'd	Used	Balance	Unit \$	Cost \$
Barytes	1243			1243	6.20	
Soda Ash	15		2	13	15.75	31.50
Al. Sulphate	80		30	50	24.00	720.00
Caustic Potash	23		2	21	39.68	79.36
JK - 261	92		9	83	137.25	1,236.25
KCL - Tech.	120		35	85	12.85	449.75
Drispac - L.V.	66		6	60	156.28	937.68
KCL - Agr.	144			144		
Sod Sulphite	34		7	27	23.56	164.92
Drispac - Reg.	63		1	62	156.28	156.28

SOLIDS ANALYSIS (ppb / %)		BIT / HYDRAULICS DATA	
High Gravity Solids	0.1 0.0	Jet Velocity	395 FT./SEC
Bentonite	3.6 0.4	Impact Force	742 LBS
Drilled Solids	28.8 3.2	HHP / in2	5.2
Low Gravity Solids	32.4 3.6	HHP	294
Average S.G.	2.60	Solids BR Press. Loss	1237 PSI
Med. "n" #1ck #2 ck	0.507 0.415	Cag. Seat Frac Pres	370 PSI
Med. "K"	0.806 15.001	" Equiv. Mud Wt.	12.90 PPG
Low "n"	0.639 0.495	ECD	9.41 PPG
Low "K"	0.352 9.12	Crit. Flo @ DC/DP - GPM	547 755
Daily Chemical Cost : \$ 3,775		Cumulative Cost : \$ 11,719	

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WELL NAME and No. TARALEA #1				CONTRACTOR O. D. & E.	
Block No. PEP 101	Location Otway Basin	State Victoria		RIG No 30	
OPERATOR'S REPRESENTATIVE Alex BRADLEY				REPORT FOR Paul COOPER	

Drilling		Assembly		Casing		Mud Volume Bbls.		Circulation Data	
Size 8.5	Type 4.1.7	Jets 3 x 12	16 inch @ 12.2 Metres	Hole : 271	Pits : 328	Pump size : (2") 6.0" 8.0 ins.			
4.5	Type G	Length 1251	9.675 inch @ 492.8 Metres	Drill String Cap : 64	Total Volume : 661	Make/Model 1 : G D PZ	% Effic 0.95		
4.5	Type 37.1	Length 37.1	inch @ - Metres	In Storage :	Weight : 8.4	Make/Model 2 : G D PZ	% Effic 0.95		
6.5	Length 173.8	Other 15.21	MUD TYPE : KCL - PHPA		% O/G : 15.0	Annular Velocity	Bbl/stk 0.067 Stk/min 71	Bbl/M 9.44	
	Length		Mud Properties		DP size 4.5	137 (F/M) Lam	Bbl/stk 0.067 Stk/min 71	Yield Point 397	

SAMPLE From		F/Line		Pit	
ME Sample Taken		10.30	13.30	22.00	
Downline TEMPERATURE	deg. C	46	47	N.C.	
DEPTH Metres		1,305	1,353	1,462	
DEPTH ppg.		9.00	9.05	9.05	
Annular VISCOSITY (sec/cst) API @ 40 deg. C		60	61	58	
PLASTIC VISCOSITY cP @ 50 deg. C		14	14	14	
GEL POINT (lb/100ft2)		16	21	20	
TENSILE STRENGTH (lb/100ft2) 10 sec. / 10 min.		6	9	5	16
THICKENING RATE API (cm3 / 30 min.) @		5.9	5.8	5.4	
API HTHP Filtrate (cm3 / 30 min.) @ deg. C		1	-	1	-
API Thickness (32nd. in API/HTHP)		4.4	-	4.8	-
SOLIDS Content (% by Vol.) Calc. / Retort		-	95.6	-	95.2
WATER Content (% by Vol.) Oil/Water		0.13	0.25	Tr	
CEMENT Content (% by Vol.)		8.0	N.C.	6.0	
ETHYLENE BLUE CAPACITY x lb/bbl cm3/cm3		8.7	8.9	8.8	
1 Strip 22 deg. C		0.18	0.22		
CALCINITY Mud (Pm)		0.12/0.9	0.18/0.64		
CALCINITY Filtrate (PmM)		9,600	10,400	9,400	
CHLORIDE (mg/L)		420	340	560	
SOFTENING HARDNESS (mg/L)		120	150	100	
SULPHITE (mg/L)		8,700	7,900	5,300	
CL (% by WL)		1.78	1.62	1.08	
IPA (Calc. lb/bbl)		1.81	1.94	2.13	
IPA (Excess lb/bbl)		1.24	-	1.46	
LOGGING - 600 / 300 / 16 (readings)		44/30/8	49/36/9	48/34/7	
LOGGING - 200 / 100 / 13 (readings)		26/18/7	30/24/7	27/19/22	

MUD PROPERTY SPECIFICATIONS		
Weight :	< 9.2	Filtrate : decrease to 6.0
Viscosity :	NC	Plastic Viscosity : NC
Other :	Chlorides max @ 12000	Yield Point : 15-30
By Authority : <input type="checkbox"/> Operator's written <input type="checkbox"/> Drilling Contractor		
<input checked="" type="checkbox"/> YES Operator's Representative <input type="checkbox"/> Other		

FLUID SUMMARY AND RECOMMENDATIONS

Losses were evident from 1,197 metres and volumetric premises were used to maintain the desired pit levels (with the highest loss being 10bbls/hr.).

Biocide was introduced to the system in this period, in preparation of the approaching T.D. and Logging operation.

Clay was more evident in this section, with a higher up-take of PHPA & KCL (which due to the restriction of the Chlorides, could not be maintained at the preferred 2%, or above, levels).

The JK - 261 consumption was higher in this period (though 4 sx. were used in the previous report) this was dictated by the returns at the shale shakers and to act as a safety margin for the pending Logging process.

OPERATIONS SUMMARY

Drilled 8-1/2" hole with a high siltstone content that tended to push the mud weight upward. With all the solids control operating, dilution was the only other option and the sand trap was dumped as the solids built up.

Drilling continued to 1,462 metres, circulated and pumped a CaCO3 weighted slug to clear the pipe and pulled out.

MUD ACCOUNTING (BBLs.)			
Fluid Built & Received	Fluid Lost or Disposed	Summary	
Initial Volume			560
Desander	38		
Desilter	24		
Downhole	116	Fluid Received	395
Dumped	75		
Other	41	Fluid Lost	294
		Final Total	661
Total Received	395	Total Lost	294
		(Circulating Vol.)	

SOLIDS CONTROL EQUIPMENT							
Type	Man.	Hr.	Cones	Hr.	Shaker#	Screen Size	Hr.
Centrifuge	0	0	2	21	1	S175/S175/S175	21
Degasser	0	0	12	19	2	S175/S175/S175	21
SOLIDS EQUIPMENT EFFICIENCY							
	Overflow (ppg.)		Underflow (ppg.)		Output (gal/m)		
Desander	9.1		11.8		1.3		
Desilter	9.05		12.8		0.9		

Product	Inventory	Rec'd.	Used	Balance	Unit \$	Cost \$
Hydrates	1243	-	-	1243	6.20	
Soda Ash	13	3	10	15.75	47.25	
Sulphate	50	10	40	24.00	240.00	
Castic Potash	21	1	20	39.68	39.68	
JK-261	83	20	63	137.25	2,745.00	
JK-Tech	85	5	80	12.65	64.25	
Spac-LV	60	11	49	156.25	1,719.08	
Agri	144		144			
Sulphite	27	6	21	25.50	141.36	
CaCO3	68	30	38	2.82	108.60	

SOLIDS ANALYSIS (ppb / %)		BIT / HYDRAULICS DATA	
High Gravity Solids	0.2	0.0	Jet Velocity
Bentonite	2.2	0.2	Impact Force
Drilled Solids	41.5	4.6	HHP / in2
Low Gravity Solids	43.7	4.8	HHP
Average S.G.	2.60	Solids	Bit Press. Loss
Med. "n"	0.552	0.497	Csg. Seat Frac Pres
Med. "K"	0.958		Equip Mud Wt.
Low "n"	0.349	0.416	ECD
Low "K"	12.96	Crit. Flo	DC/DP - GPM
Daily Chemical Cost	\$ 5.105	Cumulative Cost	\$ 16.824

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WELL NAME and No TARALEA #1			CONTRACTOR O. D. & E.		
Block No PEP 101	Location Otway Basin	State Victoria	RIG No. 30		
OPERATOR'S REPRESENTATIVE Alex BRADLEY			REPORT FOR Paul COOPER		

Drilling	Assembly	Casing	Mud Volume Bbls.
Bit size 8.5	Type 1.3.5	16 inch @ 12.2 Metres	272 Pts: 364
DP 4.5	Type G	Length 1257	Total Volume: 683
HWI 4.5	Type 37.1	Length 37.1	Drill String Cap.: 84
DC 6.5	Length 173.8	Other 14.5	In Storage: 120
DC 6.5	Length 173.8	Other 14.5	Weight: 8.6

Circulation Data	
Pump size: 21" 6.0" 8.0 ins.	
Make/Model 1: G D PZ 8	% Effic 0.95
Make/Model 2: G D PZ 8	% Effic 0.95
Bbl/stk 0.067 Stk/min 75	Bbl/M 9.98
Bbl/stk 0.067 Stk/min 75	GPM: 419

MUD TYPE: KCL - PHPA	
Mud Properties	
SAMPLE From	F/Line
TIME Sample Taken	17.30
Flowline TEMPERATURE	deg. C
DEPTH Metres	1,468
WEIGHT ppg.	9.30
Funnel VISCOSITY (sec/qt) API @ 40 deg. C	63
PLASTIC VISCOSITY cP @ 50 deg. C	16
YIELD POINT (lb/100ft ²)	24
GEL STRENGTH (lb/100ft ²) 10 sec / 10 min.	9 21
FILTRATE API (cm ³ / 30 min.) @	6.0
API HTHP Filtrate (cm ³ / 30 min.) @ - deg. C	-
CAKE Thickness (32nd. in API/HTHP)	1 -
SOLIDS Content (% by Vol.) Calc. / Retort -62.5 -	6.5 -
LIQUID Content (% by Vol.) Oil/Water	- 162.5 - 93.5
SAND Content (% by Vol.)	0.25
METHYLENE BLUE CAPACITY x lb/bbl cm ³ /cm ³	10.0
pH Strip deg. C	8.8
ALKALINITY Mud (Pm)	0.24
ALKALINITY Filtrate (PmM)	0.2/0.68
CHLORIDE (mg/L)	12,600
Total HARDNESS (mg/L)	620
SULPHITE (mg/L)	120
K+ (mg/L)	11,000
KCL (% by Wt)	2.25
PHPA (Calc. lb/bbl)	2.30
PHPA (Excess lb/bbl)	1.52
RHEOLOGY - 600 / 300 / 6 (readings)	5640/15
RHEOLOGY - 200 / 100 / 3 (readings)	3426/23

MUD PROPERTY SPECIFICATIONS		
Weight: < 9.2	Filtrate: decrease to 6.0	Other: K+ > 2%
Viscosity: NC	Plastic Viscosity: NC	Yield Point: 15.30
By Authority: Operator's written Drilling Contractor		
yes Operator's Representative - Other		

FLUID SUMMARY AND RECOMMENDATIONS

The difficulty during tripping, was hopefully over-come by raising the KCL level to 2.25%, but to hold this level of potassium, the chlorides will continue rise, until the clay sections have been passed.

With the higher KCL level, the PHPA content will be lowered, although still dictated by the cuttings at the shale shakers.

With the wiper trips dislodging the build-up of wall-cake, the solids content increased and the mud weight was driven up also.

This can be lowered with the combination of solids control equipment usage and dilution.

Downhole losses were most evident while tripping and further volume was built and is on standby, for use once the drilling recommences.

OPERATIONS SUMMARY

Pulled out of the hole with an extended wall-cake build-up, causing difficulties.

Made-up another BHA and ran in to clean the hole.

Drilled 8-1/2" hole to 1,468 metres, circulated and pumped a CaCO₃ weighted slug, to pull out and change the BHA.

MUD ACCOUNTING (BBLs)			
Fluid Built & Received	Fluid Lost or Disposed	Summary	
Premix	Desander 11	Initial Volume	661
w/ fresh water 0	Desilter 6		
" recycled " 120	Downhole 95	Fluid Received	155
Drill Water 0	Dumped 0		
Other 35	Other 21	Fluid Lost	133
		Final Total	683
Total Received 155	Total Lost 133	(Circulating Vol.)	

SOLIDS CONTROL EQUIPMENT						
Type	Man. Hr.	Cones	Hr.	Shakers	Screen Size	Hr.
Centrifuge	0	D'sand	2	5.5	S175/S175S175	5.5
Degasser	0	D'siter	12	5.5	S175/S175S175	5.5

SOLIDS EQUIPMENT EFFICIENCY		
Overflow (ppg.)	Underflow (ppg.)	Output (gal/m)
Desander 9.3	10.7	1.4
Desilter 9.30	13.5	0.8

Product	Inventory	Rec'd.	Used	Balance	Unit \$	Cost \$
Barytes	1243	-	-	1243	6.20	
Soda Ash	10	2	8		15.75	31.50
Al. Sulphate	40		40		24.00	
Caustic Potash	20	1	19		39.88	39.88
JK - 261	63	4	59		137.25	549.00
KCL - Tech	80	40	40		12.95	514.00
Drispac - L V	49	8	41		156.25	1,250.24
KCL - Agri	144		144			
God Sulphite	21	3	18			70.68
CaCO ₃	38	38			3.62	137.56

SOLIDS ANALYSIS (ppb / %)		BIT / HYDRAULICS DATA	
High Gravity Solids	0.3	0.0	Jet Velocity 295 FT/SEC
Bentonite	5.4	0.6	Impact Force 595 LBS
Drilled Solids	53.5	5.9	HHP / in ² 3.1
Low Gravity Solids	58.9	6.5	HHP 176
Average S. G.	2.60	Solids	Bit Press. Loss 722
Med. "n"	#10k & 20k	0.485	Csg. Seat Frac Pres 370
Med. "K"			Equip. Mud Wt. 12.90
Low "n"		0.324	ECD 9.91
Low "K"		27.11	CritFlo : DC/DP - GPM 574 870
Daily Chemical Cost \$ 2,593		Cumulative Cost \$ 19,417	

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WELL NAME and No. : TARALEA # 1			CONTRACTOR O. D. & E.		
Block No	PEP 101	Location	Otway Basin	State	Victoria
OPERATOR'S REPRESENTATIVE : Alex BRADLEY			REPORT FOR Paul COOPER		
RIG No. 30					

Drilling	Assembly	Casing	Mud Volume Bbls.	Circulation Data
Bit size 8.5 Type 1.3.5 Jets: 13,10,13 16 inch @ 12.2 Metres Hole: 314 Pits: 383	DP 4.5 Type G Length 1415 9.675 inch @ 492.8 Metres Drill String Cap: 73	HWT 4.5 Type 54.84 Length 92.78 - inch @ - Metres In Storage: 120	Total Volume: 770 Weight: 8.6	Pump size: [2"] 6.0" 8.0 Ins. Make/Model 1: G D PZ-8 % Emc 0.95 Make/Model 2: G D PZ-8 % Emc 0.95
DC 6.5 Length 169.1 Other 20.35	MUD TYPE: KCL - PHPA		% O/G: 15.0	Annular Velocity Bb/Strk 0.067 Stk/min 70 Bb/M 9.31 Bb/Strk 0.067 Stk/min 70 GPM: 391

SAMPLE From			Mud Properties		
TIME Sample Taken			F/Line	F/Line	F/Line
Flowline TEMPERATURE		deg. C	48	48	49
DEPTH	Metres		1,524	1,569	1,663
WEIGHT	ppg		9.20	9.20	9.05
Funnel VISCOSITY (sec/ql) API @ 44	deg. C		65	64	57
PLASTIC VISCOSITY cP @ 60	deg. C		15	15	14
YIELD POINT (lb/100ft ²)			33	24	20
GEL STRENGTH (lb/100ft ²) 10 sec. / 10 min.			16	23	5
FILTRATE API (cm ³ / 30 min.) @			5.6	6.2	5.3
API HTHP Filtrate (cm ³ / 30 min.) @ - deg. C			-	-	-
CAKE Thickness (32nd. In API/HTHP)			1	-	1
SOLIDS Content (% by Vol.) Calc. / Retort			5.7	-	4.6
LIQUID Content (% by Vol.) Oil/Water			-	94.3	-
SAND Content (% by Vol.)			0.13	Tr	Tr
METHYLENE BLUE CAPACITY x lb/bbl cm ³ /cm ³			12.0	10.0	8.0
pH Strip 23 deg. C			9.0	9.0	8.8
ALKALINITY Mud (Pm)			0.25	N.C.	0.27
ALKALINITY Filtrate (PDM)			0.2/0.78	0/23/0.85	
CHLORIDE (mg/L)			13,600	13,900	12,600
Total HARDNESS (mg/L)			620	660	700
SULPHITE (mg/L)			120	140	130
K+ (mg/L)			9,900	9,900	11,300
KCL (% by Wt)			2	2.02	2.32
PHPA (Calc. lb/bbl)			2.19	2.11	2.15
PHPA (Excess lb/bbl)			1.38	-	1.48
RHEOLOGY - 600 / 300 / 15 (readings)			63/48/19	64/38/12	48/34/7
RHEOLOGY - 200 / 100 / 13 @ 30 mins. (readings)			42/36/28	33/25/10	28/20/13

MUD PROPERTY SPECIFICATIONS		
Weight	< 9.2	Filtrate: decrease to 6.0 Other: K+ > 2%
Viscosity	NC	Plastic Viscosity: NC Yield Point: 15 - 30
By Authority	Operator's written	Drilling Contractor
	yes Operator's Representative	Other

FLUID SUMMARY AND RECOMMENDATIONS

With the higher than desired low gravity solids, the sand trap and first settling pit were dumped and cleaned [the latter had the top part of the mud pumped out beforehand].

As the Yield Point and Gel strengths were driven down (with the 14.00 hr. check having a 10 / 21 gels) the solids content began to fall in line. By the final check, the weight had been reduced to acceptable levels and although Plastic Viscosity was higher than desired, the rheology was back on track.

With a wiper trip pending, the potassium level was reinforced so to counter the previously witnessed clay - solids that will be displaced from the wall of the hole.

OPERATIONS SUMMARY

Run in the hole without any problems and ream the final 14 metres - 3m fill.

Drilling recommenced with a down-hole motor.

Biocide used in Report # 8 was costed out in this period.

MUD ACCOUNTING (BBLs.)			
Fluid Built & Received	Fluid Lost or Disposed	Summary	
Premix	Desander 17	Initial Volume	683
w/ fresh water 80	Desilter 14	Fluid Received	300
" recycled " 220	Downhole 75		
Drill Water 0	Dumped 86	Fluid Lost	213
Other 0	Other 21		
Total Received 300	Total Lost 213	Final Total	770
		(Circulating Vol.)	

SOLIDS CONTROL EQUIPMENT						
Type	Man. Hr.	Cones Hr.	Shaker#	Screen Size	Hr.	
Centrifuge	0	D'sand 2	14	1	S175/S175/S175	21
Degasser	Onico 0	D'siter 12	21	2	S175/S175/S175	21

SOLIDS EQUIPMENT EFFICIENCY			
	Overflow (ppg)	Underflow (ppg)	Output (gal/m)
Desander	9.2	11.8	0.8
Desilter	9.10	12.5	0.5

MUD ACCOUNTING (BBLs.)						SOLIDS ANALYSIS (ppb / %)				BIT / HYDRAULICS DATA		
Product	Inventory	Rec'd	Used	Balance	Unit \$	Cost \$	High Gravity Solids	0.2	0.0	Jet Velocity	275	
Barytes	1243		-	1243	6.20		Bentonite	5.0	0.6	Impact Force	504	
Soda Ash	8		2	6	15.75	31.60	Drilled Solids	36.7	4.0	HHP / in2	2.5	
Al Sulphate	40			40	24.00		Low Gravity Solids	41.8	4.6	HHP	140	
Caustic Potash	19		2	17	39.68	79.36	Average S.G.	2.60	Solids	BR Press. Loss	612	
JK - 261	59		5	54	137.25	696.25	Med. "n"	#1ck #2ck	0.392	0.497	Csg. Seat Frac Pres	370
KCL - Tech.	40		35	5	12.85	449.75	Med. "K"		4.163	7.822	" Equiv. Mud Wt	12.90
Drispac - LV	41		13	28	156.28	2,031.64	Low "n"		0.239	0.416	ECD	9.49
KCL - Agn	144			144			Low "K"		10.842	12.96	CrtFlo @ OC/DP - GPM	512
Cod Sulphite	18		3	15	3.56	70.69	Daily Chemical Cost				Cumulative Cost	
Biocide - B54X	8		2	6	207.00	414.00		\$ 3.763				\$ 23.180

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WELL NAME and No.: TARALEA # 1				CONTRACTOR O. D. & E.									
Block No.: PEP 101		Location: Otway Basin		State: Victoria		RIG No. 30							
OPERATOR'S REPRESENTATIVE: Alex BRADLEY				REPORT FOR Paul COOPER									
Drilling		Assembly		Casing		Mud Volume Bbls.							
Bit size: 8.5	Type: 1.3.5	Jobs: 13,16,13	16 Inch @ 12.2 Metres	Hole: 348	Pits: 395	Pump size: 12" 6.0" 8.0 ins.							
DP " 4.5	Type: G	Length 1596	9.675 Inch @ 492.8 Metres	Drill String Cap.: 81	Total Volume: 825	Make/Model 1: G D PZ-8 % Effc 0.95							
HWT " 4.5	Type: 54.84	Length 92.78	- Inch @ - Metres	In Storage: 120	Weight: 8.6	Make/Model 2: G D PZ-8 % Effc 0.95							
DC " 6.5	Length 169.1	Other 20.35	MUD TYPE: KCL - PHPA		% O/G: 15.0	Annular Velocity							
DC " -	Length -		Mud Properties		OP size 4.5	184 (F/M) Lam	Bb/Wtk 0.067 Stk/min 70						
SAMPLE From				F/Line	F/Line	DC size 6.5	319 (F/M) Lam	Bb/Wtk 0.067 Stk/min 70					
TIME Sample Taken				10.30	14.00	22.30	Bottoms up: 37 PRESSURE: 1,800						
Flowline TEMPERATURE deg. C				49	49	52	Total Circ.: 89 Type surftays. 3						
DEPTH Metres				1,742	1,771	1,850	MUD PROPERTY SPECIFICATIONS						
WEIGHT ppg.				9.10	9.10	9.10	Weight: < 9.2	Filtrate: decrease to 6.0					
Funnel VISCOSITY (sect.) API @ 48 deg. C				52	60	55	Viscosity: N.C.	Plastic Viscosity: N.C.					
PLASTIC VISCOSITY cP @ 60 deg. C				15	14	14	Yield Point: 15-30						
YIELD POINT (lb/100RZ)				23	22	21	By Authority: - Operator's written - Drilling Contractor						
GEL STRENGTH (lb/100RZ) 10 sec./10 min.				7	20	7	yes Operator's Representative - Other						
FILTRATE API (cm3/30 min.) @				5.8	6.3	6.4	FLUID SUMMARY AND RECOMMENDATIONS						
API HTHP Filtrate (cm3/30 min.) @ - deg. C				-	-	-	To maintain the desired low weight, dilution was necessary and the settling pits were cleaned out when ever there was a build - up of solids.						
CAKE Thickness (32nd. in API/HTHP)				1	-	1	The fluid loss parameter was realigned to a maximum of 8.0 cc's or less.						
SOLIDS Content (% by Vol) Calc. / Retort				5.0	-	4.9	The last of the KCL - Tech. grade was consumed in this period and the Agricultural grade (50% potassium by weight) was started, but initially, applied in insufficient quantities. This was rectified and the 2 - 2.5% level was regained.						
LIQUID Content (% by Vol) Oil/Water				-	95.0	-	The high hardness levels induced by the usage of the cement contained sump water, was also influenced by the Ag. grade KCL.						
SAND Content (% by Vol)				Tr	Tr	Tr	The Drispac - Low Viscosity is being used to control the rheology as a primary function, the obvious side benefit is the fluid loss control.						
METHYLENE BLUE CAPACITY x lb/bbl cm3/cm3				9.0	-	7.0	OPERATIONS SUMMARY						
pH Strip 23 deg. C				8.7	8.8	8.8	Drilled 8-1/2" to 1,704 metres and conducted a wiper trip.						
ALKALINITY Mud (Ppm)				0.15	N.C.	0.2	Once back on bottom drilling continued with increased pump output.						
ALKALINITY Filtrate (PRM)				0.18/0.87	0.22/0.76								
CHLORIDE (mg/L)				12,100	11,800	14,300							
Total HARDNESS (mg/L)				720	-	760							
SULPHITE (mg/L)				80	100	110							
K+ (mg/L)				9,900	9,000	11,800							
KCL (% by Wt)				2.04	1.85	2.42							
PHPA (Calc. lb/bbl)				2.19	2.12	2.15							
PHPA (Excess lb/bbl)				1.43	-	1.48							
RHEOLOGY - 600 / 300 / 6 (readings)				53/38/10	55/35/9	49/35/9							
RHEOLOGY - 200 / 100 / 3 @ 30 mins. (readings)				32/24/20	32/22/16								
MUD ACCOUNTING (BBLs.)				SOLIDS CONTROL EQUIPMENT									
Fluid Built & Received		Fluid Lost or Disposed		Summary		Type	Man. Hr.	Cones Hr.	Shaker#	Screen Size	Hr.		
Premix	Desander	39	Initial Volume	770	Centrifuge	-	0	D'sand	2	14	1	S175/S175/S175	21.5
wf fresh water	Desilter	2	Fluid Received	275	Degasser	Drlico	0	D'slter	12	18	2	S175/S175/S175	21.5
" recycled "	Downhole	39			SOLIDS EQUIPMENT EFFICIENCY								
Drill Water	Dumped	122			Overflow (ppg.)		Underflow (ppg.)		Output (gal/m)				
Other	Other	18	Fluid Lost	220	Desander	9.1	9.5	1.9					
			Final Total	825	Desilter	9.10	12.4	0.1					
Total Received	275	Total Lost	220	(Circulating Vol.)	SOLIDS ANALYSIS (ppb / %)								
				BIT / HYDRAULICS DATA									
Product	Inventory	Rec'd	Used	Balance	Unit \$	Cost \$	High Gravity Solids	0.3	0.0	Jet Velocity	275	FT / SEC.	
Barytes	1243		-	1243	6.20		Bentonite	3.4	0.4	Impact Force	507	LBS	
Soda Ash	8		5	1	15.75	78.76	Drilled Solids	40.8	4.5	HHP / in2	2.5		
Al. Sulphate	40		15	25	24.00	360.00	Low Gravity Solids	44.2	4.9	HHP	140		
Caustic Potash	17		1	16	39.68	39.68	Average S.G.	2.61	Solds	BR Press. Loss	615	PSI	
JK - 261	54		5	49	137.25	686.25	Med. "n"	#1ck # 2 ck	0.480	0.485	Ceg. Seat Frac Pres	370	PSI
KCL - Tech.	5		5		12.85	64.25	Med. "K"	" "	1.908	8.682	" Equiv. Mud Wt.	12.90	PPG
Drispac - L.V.	28		10	18	156.28	1,562.80	Low "n"	" "	0.367	0.349	E C D	9.59	PPG
KCL - Agri.	144		35	109	25.70	899.50	Low "K"	" "	3.845	20.23	Crit.Flo @ DC/DP - GPM	532	797
Sod. Sulphate	15		4	11	23.56	94.24	Daily Chemical Cost:		Cumulative Cost:				
Biocide - B54X	6		6		207.00		\$ 3,796		\$ 26,966				

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WELL NAME and No. : **TARALEA #1** CONTRACTOR **O. D. & E.**
Block No. : **PEP 101** Location: **Obway Basin** State: **Victoria** RIG No. **30**
OPERATOR'S REPRESENTATIVE: **Alex BRADLEY** REPORT FOR **Paul COOPER**

Drilling		Assembly		Casing		Mud Volume Bbls.		Circulation Data		
BK size: 8.5	Type: 1.3.5	Jets: 13,13,18	18 Inch @ 12.2 Metres	Hole: 366	Pits: 395	Pump size: [2"] 6.0" * 8.0 Ins.				
DP " 4.5	Type: G	Length 1689	9.675 Inch @ 482.8 Metres	Drill String Cap.: 98	Total Volume: 847	Make/Model 1: G. D. PZ-8	% Effc 0.95			
HWT " 4.5	Type: 54.84	Length 92.78	~ Inch @ ~ Metres	In Storage: 30	Weight: 8.6	Make/Model 2: G. D. PZ-8	% Effc 0.95			
DC " 6.5	Length 169.1	Other 20.35	MUD TYPE: KCL - PHPA		% OG: 15.0	Annular Velocity	Bbl/stk 0.067	Stk/min 70	Bbl/M 9.31	
DC " ~	Length ~		Mud Properties		DP size: 4.5	184 (FVM) Lam	Bbl/stk 0.067	Stk/min 70	GPM: 391	
SAMPLE From				F/Line	PK	DC size: 6.5	319 (FVM) Lam	Bottoms up: 39 PRESSURE: 1,800		
TIME Sample Taken				10.00	14.30	22.30	DC size: ~	~ (FVM) ~	Total Circ.: 91 Type surfys. 3	
Flowline TEMPERATURE deg. C				54	55	N.C.	MUD PROPERTY SPECIFICATIONS			
DEPTH Metres				1,951		1,951	Weight: < 9.2	Filtrate: < 8.0	Other: K+ > 2%	
WEIGHT ppg.				9.10	9.10	9.10	Viscosity: N.C.	Plastic Viscosity: N.C.	Yield Point: 15-30	
Funnel VISCOSITY (sec/qt.) API @ 49 deg. C				52	53	57	By Authority: ~ Operator's written ~ Drilling Contractor			
PLASTIC VISCOSITY cP @ 60 deg. C				13	12	13	yes Operator's Representative ~ Other			
YIELD POINT (lb/100ft2)				24	22	22	FLUID SUMMARY AND RECOMMENDATIONS			
GEL STRENGTH (lb/100ft2) 10 sec. / 10 min.				10	20	11	The potassium ion disparity to the total chloride content had widened in this period.			
FILTRATE API (cm3 / 30 min.) @				6.6	7.2	6.8	Maintenance premixes only at this time.			
API HTHP Filtrate (cm3 / 30 min.) @ ~ deg. C				-	-	-				
CAKE Thickness (32nd. In API/HTHP)				1	-	1				
SOLIDS Content (% by Vol.) Calc. / Retort				4.7	-	4.8				
LIQUID Content (% by Vol.) Oil/Water				-	95.2	-				
SAND Content (% by Vol.)				Tr	Tr	Tr				
METHYLENE BLUE CAPACITY X lb/bbl cm3/cm3				8.0	-	7.0				
pH Strip 23 deg. C				8.7	8.5	8.8				
ALKALINITY Mud (Pm)				0.15	N.C.	N.C.				
ALKALINITY Filtrate (PMM)				0.2/0.73	0.2/0.85					
CHLORIDE (mg/L)				16,400	16,000	16,700				
Total HARDNESS (mg/L)				800	-	760				
SULPHITE (mg/L)				120	100	120				
K+ (mg/L)				12,200	11,400	11,900				
KCL (% by WL)				2.5	2.33	2.45				
PHPA (Calc. lb/bbl)				2.10	2.13	2.13				
PHPA (Excess lb/bbl)				1.4	-	1.3				
RHEOLOGY - 800/300/6 (readings)				60S/71Z	48S/41Z	48S/51Z				
RHEOLOGY - 200/100/3 @ 30 mins. (readings)				31Z/20Z	29Z/19Z	31Z/21Z				

MUD ACCOUNTING (BBLs.)				SOLIDS CONTROL EQUIPMENT									
Fluid Bulk & Received	Fluid Lost or Disposed	Summary		Type	Man. Hr.	Cones Hr.		Shaker#	Screen Size	Hr.			
Premix	Desander	20	Initial Volume	825	Centrifuge	~	0	D'vand	2	10	1	S175/S175/S175	11
w/ fresh water	0	Desilter	2		Degasser	Onko	0	D'siter	12	11	2	S175/S175/S175	11
" recycled "	120	Downhole	18	Fluid Received									
Drill Water	0	Dumped	34		SOLIDS EQUIPMENT EFFICIENCY								
Other	0	Other	24	Fluid Lost	Overflow (ppg.)		Underflow (ppg.)		Output (gal/m)				
				98	Desander	9.1		9.8		1.4			
				Final Total	Desilter	9.05		13.0		0.1			
Total Received	120	Total Lost	98	(Circulating Vol.)									

SOLIDS ANALYSIS (ppb / %)							BIT / HYDRAULICS DATA						
Product	Inventory	Rec'd.	Used	Balance	Unit \$	Cost \$	High Gravity Solids	0.3	0.0	Jet Velocity	275 FT/SEC		
Barytes	1243		~	1243	6.20		Bentonite	3.5	0.4	Impact Force	507 LBS.		
Soda Ash	1		1		15.75	16.75	Drilled Solids	39.9	4.4	HHP / in2	2.5		
Al. Sulphate	25			25	24.00		Low Gravity Solids	43.4	4.8	HHP	140		
Caustic Potash	16			16	39.68		Average S. G.	2.81	Solds	Bk Press. Loss	615 PSI		
JK - 261	49		5	44	137.25	606.25	Med. "n"	#1ck. # 2 ck	0.434	0.455	Csg. Seat Frac Pres	370 PSI	
Biocide - B54X	6			6	207.00		Med. "K"	"	2.468	10.450	" Equiv. Mud WL	12.90 PPG	
Drispac - L.V.	18		4	14	156.28	626.12	Low "n"	"	0.284	0.251	ECD	9.65 PPG	
KCL - Agri.	109		15	94	25.70	366.50	Low "K"	"	6.291	37.30	CritFlo @ DC/DP - GPM	547	858
Sod. Sulphite	11		3	8	23.56	70.68	Daily Chemical Cost :		Cumulative Cost :				
							\$ 1.783		\$ 28,749				

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WELL NAME and No.: **TARALEA #1**
Block No.: PEP 101 Location: Otway Basin State: Victoria

CONTRACTOR **O. D. & E.**
RIG No. 30
REPORT FOR **Paul COOPER**

OPERATOR'S REPRESENTATIVE: **Alex BRADLEY**

Drilling	Assembly	Casing	Mud Volume Bbls.	Circulation Data
Bit size 8.5 Type: G	Jobs: 14,14,14	18 inch @ 12.2 Metres	Hole: 395 Pits: 385	Pump size: [2"] 6.0" x 8.0 In.
DP " 4.5 Type: G	Length 1839	9.675 inch @ 492.8 Metres	Drill String Cap.: 93 Total Volume: 872	Make/Model 1: G D PZ-8 % Effic 0.95
HW " 4.5 Type: 54.84	Length 92.78	- inch @ - Metres	In Storage: 0 Weight: -	Make/Model 2: G D PZ-8 % Effic 0.95
DC " 6.5 Length 189.1	Other 20.35	MUD TYPE: KCL - PHPA		
DC " - Length -		Mud Properties		

F/Line	Pit	% OG: 15.0	Annular Velocity	Bbl/stk 0.067	Stk/min 65	Bbl/M 8.65
09,30 14.00	21,30		DP size 4.5 :171 (FtM) Lam	Bbl/stk 0.067	Stk/min 65	GPM: 363
2,010 2,051	2,101		DC size 6.5 :297 (FtM) Lam	Bottoms up: 46	PRESSURE: 1,600	
9.10 9.10	9.10		DC size - - (FtM) -	Total Circ.: 101	Type surfsys. 3	

TIME Sample Taken	Flowline TEMPERATURE deg. C	DEPTH Metres	WEIGHT PPS	Funnel VISCOSITY (sec/qt) API @ 48 deg. C	PLASTIC VISCOSITY cP @ 50 deg. C	YIELD POINT (lbf/100ft ²)	GEL STRENGTH (lbf/100ft ²) 10 sec. / 10 min.	FILTRATE API (cm ³ /30 min.) @	API HTHP Filtrate (cm ³ /30 min.) @ - deg. C	CAKE Thickness (32nd. in API/HTHP)	SOLIDS Content (% by Vol) Calc. / Retort	LIQUID Content (% by Vol) Oil/Water	SAND Content (% by Vol)	METHYLENE BLUE CAPACITY x lb/bbl cm ³ /cm ³	pH Strip 23 deg. C	ALKALINITY Mud (Ppm)	ALKALINITY Filtrate (Ppm)	CHLORIDE (mg/L)	Total HARDNESS (mg/L)	SULPHITE (mg/L)	K+ (mg/L)	KCL (% by WL)	PHPA (Calc. lb/bbl)	PHPA (Excess lb/bbl)	RHEOLOGY - 600 / 300 / 15 (readings)	RHEOLOGY - 200 / 100 / 3 @ 30 mins. (readings)
	54 54 N.C.	2,010 2,051 2,101	9.10 9.10 9.10	47 45 44	12 11 12	7 15 5 11	6.7 6.8 6.5	- - -	1 - 1 -	4.7 - 4.8 -	- 95.3 - 95.2	Tr Tr Tr	8.0 6.0 6.0	8.8 9.0 8.5	0.2 N.C. 0.15	0.16/0.64 0.15/0.7	17,300 16,000 16,300	760 800 720	80 100 80	12,700 12,300 11,000	2.6 2.52 2.25	2.08 2.04 2.07	1.36 - 1.42	40/28/10 40/28/8 41/28/7	25/20/15 24/17/14 24/18/12	

MUD PROPERTY SPECIFICATIONS

Weight: < 9.2 Filtrate: < 8.0 Other: K+ > 2%
Viscosity: N.C. Plastic Viscosity: N.C. Yield Point: 15-30

By Authority: - Operator's written - Drilling Contractor
Yes Operator's Representative - Other

FLUID SUMMARY AND RECOMMENDATIONS

Maintenance premixes only at this time.

Lime was used to attend to the Septics systems [Camp & Rig-site].
Kwikseal - Fine was used to mop up a diesel spill.

OPERATIONS SUMMARY

Once back on bottom, the 8-1/2" drilling continued with a down-hole motor aiding the penetration rate.
A mechanical problem arose, so a barytes pill was used to clear the pipe and the bit pulled out to change the BHA.

MUD ACCOUNTING (BBL.S.)

Fluid Built & Received	Fluid Lost or Disposed	Summary
Premix	Desander 51	Initial Volume 847
w/ fresh water 0	Desilter 2	
" recycled " 195	Downhole 17	Fluid Received 195
Drill Water 0	Dumped 68	
Other 0	Other 32	Fluid Lost 170
		Final Total 872
Total Received 195	Total Lost 170	(Circulating Vol.)

SOLIDS CONTROL EQUIPMENT

Type	Man. Hr.	Cones Hr.	Shaker#	Screen Size	Hr.
Centrifuge	0	2	1	S175S175/S175	20.5
Degasser	0	12	2	S175S175/S175	20.5

Product	Inventory	Rec'd.	Used	Balance	Unit \$	Cost \$
Barytes	1243	-	-	1243	6.20	
Lime	40	2	38			
Al. Sulphate	25	5	20	24.00	120.00	
Caustic Potash	16	2	14	39.68	79.36	
JK - 261	44	7	37	137.25	960.75	
Biocide - B54X	6		6	207.00		
Drispac - L.V.	14	9	5	156.28	1,406.62	
KCL - Agri.	94	20	74	25.70	514.00	
Sod. Sulphite	8	5	3	23.56	117.80	
Kwikseal - Fine	72	4	68			

SOLIDS EQUIPMENT EFFICIENCY

	Overflow (ppg.)	Underflow (ppg.)	Output (gal/m)
Desander	9.1	9.6	1.7
Desilter	9.10	12.6	0.1

SOLIDS ANALYSIS (ppb / %)

High Gravity Solids	0.3	0.0	Jet Velocity	258	FT./SEC.
Bentonite	2.2	0.2	Impact Force	442	LBS.
Drilled Solids	41.5	4.6	HHP / in ²	2.0	
Low Gravity Solids	43.6	4.8	HHP	115	
Average S.G.	2.61	Solids	Bit Press. Loss	541	PSI
Med. "n"	#1ck. #2 ck. 0.514	0.499	Csg. Seat Frac Pres	370	PSI
Med. "K"	-	-	Eqv. Mud Wt.	12.90	PPG
Low "n"	-	-	E.C.D.	9.47	PPG
Low "K"	-	-	Crit.Flo @ DC/DP - GPM	469	690

Daily Chemical Cost: \$ 3,198 Cumulative Cost: \$ 31,947

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WELL NAME and No. TARALEA # 1			CONTRACTOR O. D. & E.		
Block No.	PEP 101	Location	Otway Basin	State	Victoria
OPERATOR'S REPRESENTATIVE Alex BRADLEY			RIG No. 30		
			REPORT FOR Paul COOPER		

Drilling	Assembly	Casing	Mud Volume Bbls.	Circulation Data	
Bit size 8.5 Type 4.4.7 Jets 13,13,13	16 inch @ 12.2 Metres	Hole 400 Pits 366	Pump size: [2] 6.0" 8.0 ins.	DP size 4.5 197 (F/M) Lam	Make/Model 1: G D PZ-8 % Effic 0.95
DP 4.5 Type G Length 1874	9.675 inch @ 492.8 Metres	Drill String Cap: 94 Total Volume: 860	Make/Model 2: G D PZ-8 % Effic 0.95	DC size 6.5 342 (F/M) Lam	Bbl/Strk 0.067 Stk/min 75 Bbl/M 9.98
HWT 4.5 Type 54.84 Length 92.78	inch @ Metres	In Storage: 45 Weight: 8.6	% O/G: 15.0 Annular Velocity	Bbl/Strk 0.067 Stk/min 75	Bbl/M 4.19
DC 6.5 Length 159.2 Other 16.77	MUD TYPE: KCL - PHPA		OP size 6.5 342 (F/M) Lam	Bottoms up: 40 PRESSURE: 1,900	DC size - (F/M) - Total Circ.: 86 Type surfysys. 3

SAMPLE From	Mud Properties
TIME Sample Taken	F/Line 14.00 F/Line 18.00
Flowline TEMPERATURE deg. C	53 55
DEPTH Metres	2,105 2,126
WEIGHT ppg.	9.15 9.15
Funnel VISCOSITY (sec/qt) API @ 50 deg. C	44 46
PLASTIC VISCOSITY cP @ 50 deg. C	11 13
YIELD POINT (lb/100R2)	16 18
GEL STRENGTH (lb/100R2) 10 sec. / 10 min.	6 11 6 13
FILTRATE API (cm3 / 30 min.) @	7.1 6.8
API HTHP Filtrate (cm3 / 30 min.) @ deg. C	1 - 1 -
CAKE Thickness (32nd. in API / HTHP)	5.2 - 5.2 -
SOLIDS Content (% by Vol.) Calc. / Retort	- 94.8 - 94.8
LIQUID Content (% by Vol.) Oil/Water	Tr Tr
SAND Content (% by Vol.)	11.0 10.0
METHYLENE BLUE CAPACITY X lb/bbl cm3/cm3	8.5 8.8
pH Strip 25 deg. C	0.22 0.2
ALKALINITY Mud (Pm)	0.16/0.62 0.2/0.64
ALKALINITY Filtrate (PMM)	16,200 15,600
CHLORIDE (mg/L)	700 780
Total HARDNESS (mg/L)	40 110
SULPHITE (mg/L)	9,000 9,900
K+ (mg/L)	1.84 2.03
KCL (% by WL)	2.06 2.09
PHPA (Calc. lb/bbl)	1.32 1.18
PHPA (Excess lb/bbl)	382/77 443/18
RHEOLOGY - 600 / 300 / 6 (readings)	20/16/12 26/17/13
RHEOLOGY - 200 / 100 / 3 @ 30 mins. (readings)	

MUD PROPERTY SPECIFICATIONS		
Weight: < 9.2	Filtrate: < 8.0	Other: K+ > 2%
Viscosity: NC	Plastic Viscosity: NC	Yield Point: 16.3
By Authority: Operator's written Drilling Contractor		
yes Operator's Representative Other		

FLUID SUMMARY AND RECOMMENDATIONS

Reducing the PHPA excess level to 1.0 ppb. in stages as requested. The secondary benefit of the product JK - 281 is the ability to enhance the Yield Point and this was why it was being kept at higher levels (being the more economical alternative).

As the weight of the mud had increased, dilution premixes were used to reduce the solids content, once more.

OPERATIONS SUMMARY

Once back on bottom, the 8-1/2" drilling continued to 2126 metres.

A barytes pill was pumped to clear the pipe and the bit was pulled out to change the BHA.

MUD ACCOUNTING (BBLs.)			
Fluid Built & Received	Fluid Lost or Disposed	Summary	
Premix	Desander 19	Initial Volume	872
w/ fresh water 0	Desilter 1	Fluid Received	110
" recycled " 110	Downhole 41	Fluid Lost	122
Drill Water 0	Dumped 28	Final Total	860
Other 0	Other 34	(Circulating Vol.)	
Total Received 110	Total Lost 122		

SOLIDS CONTROL EQUIPMENT						
Type	Man. Hr.	Cones Hr.	Shakers	Screen Size	Hr.	
Centrifuge	0	2 6	1	S175/S175/S175	6	
Degasser	0	12 6	2	S175/S175/S175	6	

SOLIDS EQUIPMENT EFFICIENCY			
	Overflow (ppg)	Underflow (ppg)	Output (gal/m)
Desander	9.2	9.4	2.2
Desilter	9.15	12.3	0.1

Product	Inventory	Rec'd	Used	Balance	Unit \$	Cost \$
Barytes	1243		60	1183	6.20	372.00
Al. Sulphate	20	80	10	90	24.00	240.00
Caustic Potash	14		2	12	39.68	79.36
JK - 261	37	30	3	64	137.25	411.75
Biocide - B54X	6			6	207.00	
Drispac - LV	5		3	2	156.25	312.50
KCL - Agr	74		12	62	25.70	308.40
Sod Sulphite	3	44	3	44	23.56	70.68
Floplex		50		50		

SOLIDS ANALYSIS (ppb / %)			BIT / HYDRAULICS DATA		
High Gravity Solids	0.3	0.0	Jet Velocity	346	FT/SEC
Bentonite	7.0	0.8	Impact Force	686	LB
Drilled Solids	39.9	4.4	HHP / in2	4.2	
Low Gravity Solids	46.9	5.2	HHP	238	
Average S.G.	2.61	Solids	Bit Press. Loss	975	
Med. "N"	0.493	0.505	Csg. Seat Frac Pres	370	
Med. "K"	1.250		Equip Mud Wt.	12.90	
Low "N"	0.327	0.357	E.C.D.	9.57	
Low "K"	1.522	17.14	Crit. Flo. @ DC/DP - GPM	492	733
Daily Chemical Cost			Cumulative Cost		
\$ 1,796			\$ 33,742		

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WELL NAME and No TARALEA #1				CONTRACTOR O. D. & E.			
Block No PEP 101		Location Otway Basin		State Victoria		RIG No. 30	
OPERATOR'S REPRESENTATIVE Alex BRADLEY				REPORT FOR Paul COOPER			

Drilling		Assembly		Casing		Mud Volume Bbls.		Circulation Data	
Bit size	8.5	Type	4.4 7	Jets	14,14,14	16 inch @	12.2 Metres	Hole	432 Pits: 354
DP	4.5	Type	G	Length	2030	9.875 inch @	492.8 Metres	Drill String Cap.	102 Total Volume: 888
HWT	4.5	Type	54.84	Length	92.78	- inch @	- Metres	In Storage	60 Weight: 8.6
DC	6.5	Length	168.8	Other	31.24	MUD TYPE: KCL - PHPA		% O.G.	15.0 Annular Velocity
DC	-	Length	-					DP size	4.5 171 (F/M) Lam
								OC size	6.5 297 (F/M) Lam
								DC size	- (F/M) -
								Bottoms up: 50 PRESSURE: 1,800	
								Total Circ.: 103 Type surflays: 3	

SAMPLE From		Mud Properties	
TIME Sample Taken		F/Line	F/Line
Flowline TEMPERATURE	deg. C	10.00 14.00	23.00
DEPTH	Metres	54 54	55
WEIGHT	ppg.	2,178 2,208	2,128
Funnel VISCOSITY (sec/qt) API @ 50	deg. C	9.15 9.15	9.20
PLASTIC VISCOSITY cP @ 60	deg. C	42 43	45
YIELD POINT (lb/100R2)		10 10	14
GEL STRENGTH (lb/100R2) 10 sec. / 10 min.		15 18	16
FILTRATE API (cm3 / 30 min.) @		6 13	4 8
API HTHP Filtrate (cm3 / 30 min.) @ - deg. C		7.6 7.3	6.5
CAKE Thickness (32nd. in API/HTHP)		1 -	1 -
SOLIDS Content (% by Vol.)	Calc. / Retort	5.2 -	5.5 -
LIQUID Content (% by Vol.)	Oil/Water	- 94.8	- 94.5
SAND Content (% by Vol.)		Tr	Tr
METHYLENE BLUE CAPACITY x lb/bbl	cm3/cm3	14.0 -	10.0
pH	Strip	8.7 8.8	9.0
ALKALINITY Mud (Pm)	26 deg. C	0.18 -	0.2
ALKALINITY Filtrate (PmM)		0.2/0.66	0.18/0.47
CHLORIDE (mg/L)		16,400 16,800	17,200
Total HARDNESS (mg/L)		700 660	680
SULPHITE (mg/L)		80 100	80
K+ (mg/L)		10,600 11,000	12,000
KCL (% by Wt.)		2.16 2.25	2.46
PHPA (Calc. lb/bbl)		2.02 1.95	2.02
PHPA (Active lb/bbl)		1.23 -	1.28
RHEOLOGY - 600 / 300 / 16 (readings)		36/268 38/288	44/306
RHEOLOGY - 200 / 100 / 13 @ 30 mins. (readings)		21/117/17 22/118/18	26/208

MUD PROPERTY SPECIFICATIONS			
Weight	< 9.2	Filtrate	< 80 Other: K+ > 2%
Viscosity	NC	Plastic Viscosity	NC Yield Point: 18-21
By Authority: ~ Operator's written ~ Drilling Contractor			
yes Operator's Representative - Other			

FLUID SUMMARY AND RECOMMENDATIONS

Again down-hole losses were witnessed, during the trip (as listed).

Due to the dropping Yield Point, higher additions of polymer were needed in this period.

The total hardness readings were becoming masked and more difficult to accurately interpret.

OPERATIONS SUMMARY

Once back on bottom, the 8-1/2" drilling continued.

MUD ACCOUNTING (BBLs.)			
Fluid Built & Received	Fluid Lost or Disposed	Summary	
Premix	Desander	21	Initial Volume 860
w/ fresh water	Desilter	2	
" recycled "	Downhole	57	Fluid Received 170
Drill Water	Dumped	18	
Other	Other	44	Fluid Lost 142
Total Received	Total Lost	142	Final Total 888
			(Circulating Vol.)

SOLIDS CONTROL EQUIPMENT					
Type	Man. Hr.	Cones Hr.		Shakers	Screen Size Hr.
Centrifuge	0	2	8	1	S175/S175/S175 21.5
Degasser	0	12	21.5	2	S175/S175/S175 21.5

SOLIDS EQUIPMENT EFFICIENCY			
	Overflow (ppg.)	Underflow (ppg.)	Output (gpm)
Desander	9.2	9.6	1.8
Desilter	9.15	13.2	0.1

SOLIDS ANALYSIS (ppb / %)						BIT / HYDRAULICS DATA					
Product	Inventory	Rec'd	Used	Balance	Unit \$	Cost \$	High Gravity Solids	0.4	0.0	Jet Velocity	258
Barytes	1183		30	1153	6.20	186.00	Bentonite	6.7	0.7	Impact Force	447
Caustic Soda	26		3	23	37.00	111.00	Drilled Solids	42.7	4.7	HHP / in2	2.0
Al Sulphate	90		10	80	24.00	240.00	Low Gravity Solids	49.4	5.4	HHP	116
Caustic Potash	12		1	11	39.68	39.68	Average S.G.	2.61	Solids	Bit Press. Loss	547
JK - 261	64		6	58	137.25	823.60	Med. "n"	0.485	0.552	Csg. Seat Frac Pres	370
Flozan	4		2	2	423.50	847.00	Med. "K"	1.214	4.898	Equip. Mud Wt.	12.90
Drispac - Reg.	62		8	54	156.28	1,250.24	Low "n"	0.310	0.438	E.C.V.	9.54
KCL - Agr.	62		26	36	25.70	668.20	Low "K"	3.519	10.01	Crit.Flo @ DC/DP - GPM	463
Sod. Sulphite	44		6	38	23.56	141.36	Daily Chemical Cost		Cumulative Cost		
Floplex	50		4	46	35.00	340.00	\$ 4.647		\$ 38.389		

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WELL NAME and No. : TARALEA # 1			CONTRACTOR O. D. & E.		
Block No. : PEP 101	Location : Otway Basin	State : Victoria	RIG No. 30		
OPERATOR'S REPRESENTATIVE : Alex BRADLEY			REPORT FOR Paul COOPER		

Drilling		Assembly		Casing		Mud Volume Bbls.		Circulation Data		
BR size: 8.5	Type: 4.4.7	Jets: 14,14,14	18	Inch @ 12.2	Metres	Hole: 466	Pts: 310	Pump size: [2"]	6.0" x 8.0	Inch
OP " 4.5	Type: G	Length 2210	9.675	Inch @ 492.8	Metres	Drill String Cap.: 110	Total Volume: 887	Make/Model 1: G. D. PZ-8	% Effic 0.95	
HWT " 4.5	Type: 54.84	Length 92.78	~	Inch @ ~	Metres	In Storage: 0	Weight: ~	Make/Model 2: G. D. PZ-8	% Effic 0.95	
DC " 6.5	Length 168.6	Other 31.24	MUD TYPE: KCL - PHPA			% OG: 15.0	Annular Velocity	Bbl/atk 0.067	Stk/min 85	Bbl/M 8.65
DC " ~	Length ~		Mud Properties			DP size: 4.5	171 (F/M) Lam	Bbl/atk 0.067	Stk/min 85	GPM: 363

SAMPLE From	F/Line	F/Line		
TIME Sample Taken	10.30	14.00	22.30	
Flowline TEMPERATURE deg. C	54	57	58	
DEPTH Metres	2,371	2,400	2,463	
WEIGHT PPG	9.20	9.20	9.20	
Funnel VISCOSITY (sectl.) API @ 50 deg. C	54	54	53	
PLASTIC VISCOSITY cP @ 50 deg. C	16	15	14	
YIELD POINT (lb/100RZ)	18	17	18	
GEL STRENGTH (lb/100RZ) 10 sec./10 min.	3	8	3	10
FILTRATE API (cm3/30 min.) @	6.3	5.6	6.2	
API HTHP Filtrate (cm3/30 min.) @ ~ deg. C	~	~	~	
CAKE Thickness (32nd. In API/HTHP)	1	~	1	~
SOLIDS Content (% by Vol) Calc. / Retort	5.5	~	5.6	~
LIQUID Content (% by Vol) Oil/Water	~	94.5	~	94.4
SAND Content (% by Vol)	Tr	Tr		
METHYLENE BLUE CAPACITY x lb/bbl cm3/cm3	10.0	8.0	10.0	
pH Strip 23 deg. C	8.5	8.5	8.5	
ALKALINITY Mud (Pm)	0.15	~	0.16	
ALKALINITY Filtrate (PMM)	0.16/0.5	0.14/0.55		
CHLORIDE (mg/L)	16,900	16,400	16,400	
Total HARDNESS (mg/L)	600	540	580	
SULPHITE (mg/L)	40	60	120	
K+ (mg/L)	12,300	12,000	11,000	
KCL (% by Wt)	2.53	2.47	2.25	
PHPA (Calc. lb/bbl)	2.02	2.08	2.25	
PHPA (Active lb/bbl)	1.44	~	1.53	
RHEOLOGY - 600/300/16 (readings)	50/34/3	47/32/4	46/32/4	
RHEOLOGY - 200/100/3 @ 30 mins. (readings)	27/19/8	28/17/10	25/18/10	

Weight: < 9.2	Filtrate: < 8.0	Other: K+ > 2%
Viscosity: N.C.	Plastic Viscosity: N.C.	Yield Point: 18-21
By Authority: ~ Operator's written ~ Drilling Contractor		
yes Operator's Representative ~ Other		

FLUID SUMMARY AND RECOMMENDATIONS

The Yield Point was stabilised in this period.

Down-hole losses were up to 5 bbls. per hour, this included the volumetric loss (as the bit made hole). Volume was built accordingly.

Higher amounts of Caustic Potash were being consumed as was the quantity of Sodium Sulphite [these two chemicals tend to compete against each other].

OPERATIONS SUMMARY

Drilling the 8 1/2" hole to 2,368 metres and conducted a wiper trip. This was done without any problems and no fill was evident, on getting back on bottom. Drilling then continued.

MUD ACCOUNTING (BBLs.)			
Fluid Built & Received	Fluid Lost or Disposed	Summary	
Premix	Desander 6	Initial Volume	888
w/ fresh water 0	Desilter 2		
" recycled " 120	Downhole 79	Fluid Received	120
Drill Water 0	Dumped 0		
Other 0	Other 35	Fluid Lost	121
		Final Total	887
Total Received 120	Total Lost 121	(Circulating Vol.)	

SOLIDS CONTROL EQUIPMENT					
Type	Man. Hr.	Cones Hr.	Shaler#	Screen Size	Hr.
Centrifuge	~ 0	D'sand 2	2	1	S175/S175/S175 21.5
Degasser	Drico 0	D'water 12	21.5	2	S175/S175/S175 21.5

SOLIDS EQUIPMENT EFFICIENCY			
	Overflow (ppg.)	Underflow (ppg.)	Output (gal/hr)
Desander	9.3	9.4	1.9
Desilter	9.25	13.8	0.1

SOLIDS ANALYSIS (ppb / %)					BIT / HYDRAULICS DATA								
Product	Inventory	Rec'd	Used	Balance	Unit \$	Cost \$	High Gravity Solids	0.3	0.0	Jet Velocity	258	FT / SEC.	
Barytes	1153		~	1153	6.20		Bentonite	6.5	0.7	Impact Force	447	LBS	
Al. Sulphate	80			80	24.00		Drilled Solids	43.9	4.8	H-HP / In2	2.0		
Caustic Potash	11		2	9	39.68	79.36	Low Gravity Solids	50.4	5.5	H-HP	116		
JK - 261	58		12	46	137.25	1,647.00	Average S. G.	2.61	Solids	BR Press. Loss	547	PSI	
Flozan	2		2		423.50	847.00	Med. "n"	#1ck #2 ck	0.558	0.523	Csg. Seat Frac Pres	370	PSI
Drispac - Reg.	54			54	156.28		Med. "K"	-	-	" Equiv. Mud Wt.	12.90	PPG	
KCL - Agri.	36		9	27	25.70	231.30	Low "n"	-	-	ECD	9.52	PPG	
Sod. Sulphite	38		6	32	23.56	141.36	Low "K"	-	-	Crit.Flo @ DC/DP - GPM	484	633	
Daily Chemical Cost:							\$ 2,946		Cumulative Cost:				
									\$ 41,336				

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WELL NAME and No. TARALEA # 1				CONTRACTOR O. D. & E.	
Block No. PEP 101		Location: Otway Basin		State Victoria	
OPERATOR'S REPRESENTATIVE Alex BRADLEY				REPORT FOR Paul COOPER	
RIG No. 30					

Drilling		Assembly		Casing		Mud Volume Bbls.		Circulation Data					
Bit size	8.5	Type	4.4.7	Jets	14,14,14	18 inch @	12.2 Metres	Hole	494	Pits	360	Pump size	(2') 6.0" 8.0 ins.
DP	4.5	Type	G	Length	2354	9.875 inch @	492.8 Metres	Drill String Cap.	117	Total Volume	966	Make/Model 1	G D PZ-8 % Effic 0.95
HWT	4.5	Type	54.84	Length	92.78	inch @	-	Metres In Storage	45	Weight	8.6	Make/Model 2	G D PZ-8 % Effic 0.95
DC	6.5	Length	168.6	Other	31.24	MUD TYPE:	KCL - PHPA	% OIG:	15.0	Annular Velocity		Bbl/stk	0.067 Stk/min 65 Bbl/M 8.65
DC	-	Length	-					DP size	4.5	171 (F/M) Lam		Bbl/stk	0.067 Stk/min 65 GPM: 363
								DC size	6.5	297 (F/M) Lam		Bottoms up:	57 PRESSURE: 1,900
								DC size	-	(F/M) -		Total Circ.:	112 Type surfysys. 3

SAMPLE From		Mud Properties		
TIME Sample Taken		F/Line	F/Line	F/Line
Flowline TEMPERATURE	deg. C	10.30	14.00	20.00
DEPTH	Metres	62	61	61
WEIGHT	PPG.	2,548	2,576	2,615
Funnel VISCOSITY (sec/100) API @	50 deg. C	9.25	9.35	9.30
PLASTIC VISCOSITY cP @	60 deg. C	56	55	53
YIELD POINT (lb/1000) (2)		17	16	16
GEL STRENGTH (lb/1000) (2) 10 sec. / 10 min.		20	24	19
FILTRATE API (cm3 / 30 min.) @		3	14	2
API HTHP Filtrate (cm3 / 30 min.) @	- deg. C	5.6	5.3	5.6
CAKE Thickness (32nd. In API/HTHP)		1	-	1
SOLIDS Content (% by Vol.)	Calc. / Retort	6.0	-	6.4
LIQUID Content (% by Vol.)	Oil/Water	-	94.0	-
SAND Content (% by Vol.)		Tr	-	0.13
METHYLENE BLUE CAPACITY x lb/bbl	cm3/cm3	13.0	12.0	12.0
pH	Strip 26 deg. C	9.0	9.0	9.0
ALKALINITY Mud (Pm)		0.2	0.2	-
ALKALINITY Filtrate (PmM)		0.14/0.45	0.12/0.48	
CHLORIDE (mg/L)		15,000	14,600	14,200
Total HARDNESS (mg/L)		560	580	500
SULPHITE (mg/L)		100	120	110
K+ (mg/L)		11,000	11,000	11,000
KCL (% by Wt.)		2.25	2.25	2.25
PHPA (Calc. lb/bbl)		2.24	2.2	2.22
PHPA (Active lb/bbl)		1.2	-	1.34
RHEOLOGY - 600 / 300 / 6 (readings)		54/374	66/403	51/353
RHEOLOGY - 200 / 100 / 3 @ 30 mins. (readings)		31/20/16	32/22/18	27/17/11

MUD PROPERTY SPECIFICATIONS		
Weight:	< 92	Filtrate: < 80 Other: K+ > 2%
Viscosity:	NC	Plastic Viscosity: NC Yield Point: 18-21
By Authority:	-	Operator's written - Drilling Contractor
	YES	Operator's Representative - Other

FLUID SUMMARY AND RECOMMENDATIONS

Losses were suppressed while new bentonite was added to the system, but within three circulations, the seepage had recommenced.

With the increase of low gravity solids, the weight crept up and dilution was required [with the dumping of the sand-trap, to assist in the lowering of solids].

OPERATIONS SUMMARY

Drilled the 8 1/2" hole to 2,615 metres, circulated the hole, pumped a weighted barytes pill and pulled out to change the bit.

MUD ACCOUNTING (BBLs.)			
Fluid Built & Received	Fluid Lost or Disposed	Summary	
Premix	Desander 10	Initial Volume	887
w/ fresh water 30	Desilter 2	Fluid Received	250
" recycled " 220	Downhole 76	Fluid Lost	171
Drill Water 0	Dumped 56	Final Total	966
Other 0	Other 27	(Circulating Vol.)	
Total Received 250	Total Lost 171		

SOLIDS CONTROL EQUIPMENT							
Type	Man.	Hr.	Cones	Hr.	Shaker	Screen Size	Hr.
Centrifuge	-	0	D'sand	2	4	S175/S175/S175	21
Degasser	Onico	0	D'slitter	12	21	S175/S175/S175	21

SOLIDS EQUIPMENT EFFICIENCY		
Overflow (ppg.)	Underflow (ppg.)	Output (gal/M)
Desander	9.4	9.6
Desilter	9.30	13.5
		1.7
		0.1

Product	Inventory	Rec'd	Used	Balance	Unit \$	Cost \$
Barytes	1153		33	1120	6.20	204.60
Al Sulphate	80			80	24.00	
Caustic Potash	9		3	6	39.68	119.04
JK - 261	46		7	39	137.25	960.75
Flozan					423.50	
Dnspac - Reg	54		6	48	156.28	937.68
KCL - Agn	27		10	17	25.70	257.00
Sod. Sulphite	32		7	25	23.56	164.92
Idgel	40		30	10	9.32	294.60

SOLIDS ANALYSIS (ppb / %)		BIT/HYDRAULICS DATA	
High Gravity Solids	0.3	0.0	Jet Velocity
Bentonite	8.2	0.9	Impact Force
Drilled Solids	49.8	5.5	HHP / in2
Low Gravity Solids	58.0	6.4	HHP
Average S.G.	2.61	SOLIDS	Bit Press. Loss
Med. "n"	#1ck #2ck	0.545	0.543
Med. "K"		1.236	6.059
Low "n"		0.546	0.822
Low "K"		1.232	3.71
Daily Chemical Cost:	\$ 2.939	Cumulative Cost:	\$ 44.273

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WELL NAME and No.: TARALEA # 1			CONTRACTOR O. D. & E.		
Block No.: PEP 101	Location: Otway Basin	State: Victoria	RIG No. 30		
OPERATOR'S REPRESENTATIVE: Alex BRADLEY			REPORT FOR Paul COOPER		

Drilling Assembly		Casing		Mud Volume Bbls.		Circulation Data	
Bit size 8.5	Type: 4.4.7	Jets: 14,16,14	16 inch @ 12.2 Metres	Hole: 511	Pits: 355	Pump size: [2"] 6.0" 8.0 ins.	
DP " 4.5	Type: G	Length 2444	9.675 inch @ 492.9 Metres	Drill String Cap.: 121	Total Volume: 986	Make/Model 1: G.D. PZ-8 % Effic 0.95	
HWT " 4.5	Type: 54.84	Length 92.78	~ inch @ ~ Metres	In Storage: 70	Weight: 8.6	Make/Model 2: G.D. PZ-8 % Effic 0.95	
DC " 6.5	Length 168.6	Other 31.24	MUD TYPE: KCL - PHPA		% O/G: 15.0	Annular Velocity	Bbl/stk 0.067 Stk/min 70 Bbl/M 9.31
OC " ~	Length ~		Mud Properties		DP size 4.5	184 (F/M) Lam	Bbl/stk 0.067 Stk/min 70 GPM: 391
SAMPLE From		F/Line	F/Line	DC size 6.5	319 (F/M) Lam	Bottoms up: 55 PRESSURE: 1,900	
TIME Sample Taken		11.00	14.00	DC size ~	~ (F/M) ~	Total Circ.: 106 Type surfysa. 3	

Flowline TEMPERATURE deg. C	58	59	62
DEPTH Metres	2,634	2,651	2,698
WEIGHT PPG	9.35	9.35	9.30
Funnel VISCOSITY (sec/qt) API @ 60 deg. C	55	50	54
PLASTIC VISCOSITY cP @ 60 deg. C	18	17	17
YIELD POINT (lb/100R2)	23	22	20
GEL STRENGTH (lb/100R2) 10 sec./10 min.	3	11	2
FILTRATE API (cm3/30 min.) @	5.7	5.5	6.2
API HTHP Filtrate (cm3/30 min.) @ - deg. C	-	-	-
CAKE Thickness (32nd. in API/HTHP)	1	-	1
SOLIDS Content (% by Vol) Calc. / Retort	6.8	-	6.3
LIQUID Content (% by Vol) Oil/Water	-	93.2	-
SAND Content (% by Vol)	Tr	-	Tr
METHYLENE BLUE CAPACITY x lb/bbl cm3/cm3	12.0	10.0	10.0
pH Strip 26 deg. C	9.0	9.0	9.0
ALKALINITY Mud (Pm)	0.15	-	0.2
ALKALINITY Filtrate (PPM)	0.1/0.38	-	0.18/0.46
CHLORIDE (mg/L)	14,400	14,100	16,200
Total HARDNESS (mg/L)	480	500	500
SULPHITE (mg/L)	100	100	110
K+ (mg/L)	9,300	9,900	11,900
KCL (% by Wt)	1.9	2.02	2.44
PHPA (Calc. lb/bbl)	2.17	2.16	2.31
PHPA (Active lb/bbl)	1.2	-	1.38
RHEOLOGY - 600/300/16 (readings)	69/41/4	66/38/4	64/37/4
RHEOLOGY - 200/100/3 @ 30 mins. (readings)	31/22/19	30/18/17	29/18/16

MUD PROPERTY SPECIFICATIONS

Weight: < 9.2 Filtrate: < 8.0 Other: K+ > 2%

Viscosity: NC Plastic Viscosity: NC Yield Point: 18-21

By Authority: ~ Operator's written ~ Drilling Contractor
yes Operator's Representative ~ Other

FLUID SUMMARY AND RECOMMENDATIONS

Volume was built to replace tripping losses, then efforts were to reduce the mud weight by dumping and cleaning both the sand-trap and first settling pit. Volume / dilution premixes were used to replace this fluid.

The other primary aim was to reduce or stop the down-hole seepage. A polymer / PHPA premix was tried as was a high concentration of PHPA to "plastic coat" the hole. This appeared to work until at 2,674 metres, a possible fractured coal section was penetrated and 36 bbls. was immediately lost. Minor loss was noted after this, but it appeared that the seepage had healed itself.

OPERATIONS SUMMARY

With the new bit, ran back to bottom and continued drilling the 8 1/2" section.

MUD ACCOUNTING (BBLs.)

Fluid Built & Received	Fluid Lost or Disposed	Summary	Initial Volume	Final Total
Premix	Desander 16	Initial Volume	986	
w/ fresh water 0	Desilter 2			
" recycled " 260	Downhole 87	Fluid Received	260	
Drill Water 0	Dumped 109			
Other 0	Other 27	Fluid Lost	240	
		Final Total	986	
Total Received 260	Total Lost 240	(Circulating Vol.)		

SOLIDS CONTROL EQUIPMENT

Type	Man. Hr.	Cones Hr.	Shaker#	Screen Size	Hr.
Centrifuge	0	0	2	S175/S175/S175	17
Degasser	0	12	2	S175/S175/S175	17

SOLIDS EQUIPMENT EFFICIENCY

	Overflow (ppg)	Underflow (ppg)	Output (gal/m)
Desander	9.3	10.1	0.6
Desilter	9.30	14.0	0.1

Product	Inventory	Rec'd	Used	Balance	Unit \$	Cost \$
Barytes	1120		28	1092	6.20	173.60
Al Sulphate	80			80	24.00	
Caustic Potash	6		2	4	39.68	79.36
JK - 261	39		10	29	137.25	1,372.50
Flozan		80	5	75	423.50	2,117.50
Drispac - Reg.	48		1	47	156.28	166.28
KCL - Agri.	17	96	30	83	25.70	771.00
Sod. Sulphate	25		4	21	23.56	94.24

SOLIDS ANALYSIS (ppb / %)

	High Gravity Solids	Bentonite	Drilled Solids	Low Gravity Solids	Average S.G.	Med. "n"	Med. "K"	Low "n"	Low "K"
	0.4	5.7	51.1	56.8	2.61	0.525	1.554	0.568	1.188
	0.0	0.6	5.6	6.2	Solids	0.545	6.314	0.634	3.64
Jet Velocity	252	Impact Force	475	HHP / In2	2.1	Csg. Seat Frac Pres	370	" Equiv. Mud Wt.	12.90
	FT / SEC	LBS					PPG	ECD	9.62
									PPG
									596
Daily Chemical Cost:	\$ 4,764		Cumulative Cost:		\$ 49,038				

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WELL NAME and No.: **TARALEA # 1** CONTRACTOR **O. D. & E.**
Block No.: PEP 101 Location: Otway Basin State: Victoria RIG No. 30
OPERATOR'S REPRESENTATIVE: **Henry FLINK** REPORT FOR **Paul COOPER**

Drilling		Assembly		Casing		Mud Volume Bbls.		Circulation Data				
Bit size	8.5	Type: 4.4.7	Jets: 14,16,14	16 inch @	12.2 Metres	Hole:	529	Pits:	392	Pump size:	[2"] 6.0" x 8.0 in.	
DP "	4.5	Type: G	Length 2539	9.675 inch @	492.8 Metres	Drill String Cap.:	128	Total Volume:	1047	Make/Model 1:	G.D. PZ-8 % Effc 0.95	
HW "	4.5	Type: 54.84	Length 92.78	~ inch @	~ Metres	In Storage:	70	Weight:	8.6	Make/Model 2:	G.D. PZ-8 % Effc 0.95	
DC "	8.5	Length 168.8	Other 31.24	MUD TYPE: KCL - PHPA		% O/G:	15.0	Annular Velocity		Bbl/stk 0.067	Stk/min 70	Bbl/M 9.31
DC "	~	Length ~				DC size:	6.5	319 (F/M) Lam		Bbl/stk 0.067	Stk/min 70	GPM: 391

		Mud Properties		
SAMPLE From		F/Line	F/Line	F/Line
TIME Sample Taken		10.00	14.00	20.30
Flowline TEMPERATURE	deg. C	62	65	64
DEPTH	Metres	2,765	2,784	2,800
WEIGHT	ppg.	9.30	9.30	9.30
Funnel VISCOSITY (sec/qt.) API @ 50	deg. C	56	55	50
PLASTIC VISCOSITY cP @ 50	deg. C	16	15	16
YIELD POINT (lb/100ft ²)		24	24	23
GEL STRENGTH (lb/100ft ²) 10 sec./10 min.		2	15	3
FILTRATE API (cm ³ /30 min.) @		6.8	7.2	6.3
API HTHP Filtrate (cm ³ /30 min.) @ ~ deg. C		-	-	-
CAKE Thickness (32nd. in API/HTHP)		1	-	1
SOLIDS Content (% by Vol.) Calc. / Retort		6.2	-	6.2
LIQUID Content (% by Vol.) Oil/Water		-	93.7	-
SAND Content (% by Vol.)		Tr	Tr	Tr
METHYLENE BLUE CAPACITY X lb/bbl cm ³ /cm ³		12.0	8.0	10.0
pH Strip 29 deg. C		8.8	9.0	8.8
ALKALINITY Mud (Pm)		0.14	-	0.2
ALKALINITY Filtrate (PRM)		0.12/0.52		0.1/0.55
CHLORIDE (mg/L)		16,800	14,800	17,600
Total HARDNESS (mg/L)		n.c.	460	420
SULPHITE (mg/L)		80	60	120
K+ (mg/L)		10,600	9,800	12,000
KCL (% by Wt)		2.16	2.02	2.46
PHPA (Calc. lb/bbl)		2.29	2.28	2.30
PHPA (Active lb/bbl)		1.15	-	1.3
RHEOLOGY - 600/300/16 (readings)		56/40/6		56/39/4
RHEOLOGY - 200/100/3 @ 30 mins. (readings)		33/24/24		31/20/22

MUD PROPERTY SPECIFICATIONS			
Weight:	< 9.2	Filtrate:	< 8.0 Other: K+ > 2%
Viscosity:	NC	Plastic Viscosity:	NC. Yield Point: 18-21
By Authority:	~ Operator's written	~	Drilling Contractor
	yes Operator's Representative	~	Other

FLUID SUMMARY AND RECOMMENDATIONS
At 2,777 metres, down-hole losses were apparent, once again. There was continued efforts to minimise the weight increase, without excessive dilution. Volume was built in preparation for Logging. As the T.D. of this section was approached, the K+ (potassium ion) was strengthened to ensure a minimum of tripping problems (as was the PHPA, which had been depleted from the previous trip). Biocide was re-introduced in preparation for the logging process. Due to a resorting of chemicals, there was a credit of 3 drums of Caustic Soda and this flowed on to the Cumulative Costs (\$117.00). Assessment of the Swab / Surg pressures: @ 2,784 metres
EMW : 9.85 ppg. / 9.75 ppg.
Pipe speed : 70 ft / min.
Annular Velocity : 329 R / min.

OPERATIONS SUMMARY
Drilled 8 1/2" hole to 2,800 metres, circulated the hole and conducted a wiper trip. Once back on bottom, a further circulation of the hole was followed with a barytes slug to clear the pipe and the bit was pulled out (for Logging).

MUD ACCOUNTING (BBLs.)			
Fluid Built & Received	Fluid Lost or Disposed	Summary	
Premix	Desander 6	Initial Volume	986
w/ fresh water 0	Desilter 2		
" recycled " 223	Downhole 76	Fluid Received	223
Drill Water 0	Dumped 56		
Other 0	Other 23	Fluid Lost	162
		Final Total	1047
Total Received 223	Total Lost 162	(Circulating Vol.)	

SOLIDS CONTROL EQUIPMENT					
Type	Man. Hr.	Cones Hr.	Shaker#	Screen Size	Hr.
Centrifuge	~ 0	D'vand 2	18.5	1	S175/S175/S175 18.5
Degasser	Onlco 0	D'slter 12	18.5	2	S175/S175/S175 18.5

SOLIDS EQUIPMENT EFFICIENCY			
	Overflow (ppg.)	Underflow (ppg.)	Output (gal/m)
Desander	9.3	11.4	0.2
Desilter	9.30	13.7	0.1

SOLIDS ANALYSIS (ppb / %)						BIT / HYDRAULICS DATA							
Product	Inventory	Rec'd.	Used	Balance	Unit \$	Cost \$	High Gravity Solids	0.4	0.0	Jet Velocity	252	FT / SEC.	
Barytes	1092		42	1050	6.20	260.40	Bentonite	5.8	0.6	Impact Force	475	LBS.	
Biocide - B54X	6		2	4	207.00	414.00	Drilled Solids	50.2	5.5	HHP / In2	2.1		
Al. Sulphate	80			80	24.00		Low Gravity Solids	56.0	6.2	HHP	121		
Caustic Potash	4		3	1	39.60	118.04	Average S.G.	2.61	Solids	BK Press. Loss	528	PSI	
CK - 261	29		7	22	137.25	980.76	Med. "n" #1ck #2 ck	0.495	0.496	Csg. Seat Frac Pres	370	PSI	
Flozan	75		2	73	423.50	847.00	Med. "K"	1.942	9.059	" Equiv. Mud Wt	12.90	PPG.	
Onspac - Reg.	47		3	44	156.28	468.84	Low "n"	0.651	0.557	ECD	9.68	PPG.	
KCL - Agri.	83		30	53	25.70	771.00	Low "K"	0.692	6.18	CritFlo @ DC/DP - GPM	515	683	
Sod Sulphate	21		4	17	23.58	94.24	Daily Chemical Cost:	Cumulative Cost:					
Onspac - Low Vis.	2		2		156.28	312.66		\$ 4,248	\$ 63,169				

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WELL NAME and No. : TARALEA # 1			CONTRACTOR O. D. & E.		
Block No. : PEP 101	Location : Otway Basin	State : Victoria	RIG No. 30		
OPERATOR'S REPRESENTATIVE : Henry FLINK			REPORT FOR Paul COOPER		

Drilling		Assembly		Casing		Mud Volume Bbls.		Circulation Data	
Bit size 8.5	Type			18 inch @ 12.2 Metres	Hole :	528 Pits :	369	Pump size :	2" 6.0" 8.0 ins.
DP " 4.5	Type : G	Length 2539		9.675 inch @ 492.8 Metres	Drill String Cap. :	125	Total Volume :	1019	Make/Model 1: G D PZ-8 % Effic 0.95
HWT " 4.5	Type : 54.84	Length 92.78		~ inch @ ~ Metres	In Storage :	0	Weight :	~	Make/Model 2: G D PZ-8 % Effic 0.95
DC " 6.5	Length 168.6	Other		MUD TYPE : KCL - PHPA		% O/G : 15.0	Annular Velocity	Bbl/stk 0.067	Stk/min ~ Bbl/M ~
DC " ~	Length ~			Mud Properties		DP size 4.5 (F _{PM}) #####	DC size 6.5 (F _{PM}) #####	Bbl/stk 0.067	Stk/min ~ GPM : ~

SAMPLE From		Pit	21.00
TIME Sample Taken			
Flowline TEMPERATURE	deg. C		N.C.
DEPTH	Metres		2,800
WEIGHT	ppg.		9.30
Funnel VISCOSITY (sec/qt) API @	deg. C		55
PLASTIC VISCOSITY cP @	60 deg. C		16
YIELD POINT (lb/100ft ²)			24
GEL STRENGTH (lb/100ft ²)	10 sec. / 10 min.		4 19
FILTRATE API (cm ³ /30 min.) @			5.7
API HTHP Filtrate (cm ³ /30 min.) @	- deg. C		-
CAKE Thickness (32nd. in API/HTHP)			1 ~
SOLIDS Content (% by Vol.)	Calc. / Retort	-62.5 ~	6.2 ~
LIQUID Content (% by Vol.)	Oil/Water	~ 162.5 ~	~ 93.8 ~
SAND Content (% by Vol.)			Tr
METHYLENE BLUE CAPACITY	x lb/bbl cm ³ /cm ³		11.0
pH	Strip 21 deg. C		9.0
ALKALINITY Mud (Pm)			0.22
ALKALINITY Filtrate (P _{PM})			0.14/0.58
CHLORIDE (mg/L)			17,800
Total HARDNESS (mg/L)			400
SULPHITE (mg/L)			100
K+ (mg/L)			11,600
KCL (% by Wt)			2.38
PHPA (Calc. lb/bbl)			2.30
PHPA (Active lb/bbl)			1.1
RHEOLOGY - 600 / 300 / 16 (readings)			561404
RHEOLOGY - 200 / 100 / 3 @ 30 mins. (readings)			332120

MUD PROPERTY SPECIFICATIONS		
Weight :	< 9.2	Filtrate : < 8.0 Other : K+ > 2%
Viscosity :	N.C.	Plastic Viscosity : N.C. Yield Point : 18 - 21
By Authority :	~	Operator's written ~ Drilling Contractor
	yes	Operator's Representative ~ Other

FLUID SUMMARY AND RECOMMENDATIONS

To assist the setting of the sump pit, a Aluminium Sulphate based mix was sprayed into the sump.

Another premix was prepared (to be added to the mud in the surface system after the final circulation) consisting of the above mentioned product.

The biocide costed in this period, is on standby, to be used on the final displacement.

The Calcium Chloride [not charged to the mud costing] was for the cement operation.

OPERATIONS SUMMARY

Completed pulling out the drill string and Logging followed.

On completion of the logging, the plug and abandonment programme was initiated.

Static down-hole losses were 9.5 bbls. for the logging period.

MUD ACCOUNTING (BBLs.)			
Fluid Built & Received	Fluid Lost or Disposed	Summary	
Premix	Desander 0	Initial Volume	1047
w/ fresh water 0	Desilter 0		
" recycled " 0	Downhole 21	Fluid Received	0
Drill Water 0	Dumped 0		
Other 0	Other 7	Fluid Lost	28
		Final Total	1019
Total Received 0	Total Lost 28	(Circulating Vol.)	

SOLIDS CONTROL EQUIPMENT						
Type	Man.	Hr.	Cones	Hr.	Shaker#	Screen Size
Centrifuge	-	0	D'sand 2	0	1	S175/S175/S175
Degasser	Onco	0	D'ulker 12	0	2	S175/S175/S175

SOLIDS EQUIPMENT EFFICIENCY			
Overflow (ppg.)		Underflow (ppg.)	
Desander	-	-	0
Desilter	-	-	0

SOLIDS ANALYSIS (ppb / %)						BIT / HYDRAULICS DATA					
Product	Inventory	Rec'd.	Used	Balance	Unit \$	Cost \$	High Gravity Solids	0.4	0.0	Jet Velocity	### FT/SEC
Barytes	1050			1050	6.20		Bentonite	7.1	0.8	Impact Force	### LBS
Biocide - B54X	4		2	2	207.00	414.00	Drilled Solids	48.8	5.4	HHP / In2	###
Al. Sulphate	80		80		24.00	1,920.00	Low Gravity Solids	55.9	6.1	HHP	###
Caustic Potash	1		1		39.68	39.68	Average S. G.	2.61	Solids	BR Press. Loss	### PSI
JK - 261	22			22	137.25		Med. "n"	#1ck #2ck ~	0.485	Ceg. Seat Frac Pres	370 PSI
Flozan	73			73	423.50		Med. "K"	-	9.922	" Equiv. Mud Wt.	12.90 PPG
Dnspac - Reg.	44			44	156.28		Low "n"	-	0.500	E C D	### PPG
KCL - Agri	53			53	25.70		Low "K"	-	9.04	Crk.Flo @ DC/DP - GPM	538 741
Sod Sulphite	17			17	23.56		Daily Chemical Cost :		Cumulative Cost :		
CaCl2	7		1	6			\$ 2,374		\$ 56,542		

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DAILY DRILLING REPORTS

Basic Data		Well Data					
DRILLING CO. :	O.D.E.	DEPTH m :	2,800.0	HOLE SIZE("):	8.50	TOT PERS ON SITE :	24
RIG :	30	PROGRESS m :	0.0	LAST CSG SIZE("):	9.625	AFE COST \$:	1,526,700
GL ABOVE MSL (m) :	49.0	DAYS FROM SPUD :	20.52	SHOE DEPTH m :	492.80	DAILY COST \$:	169,491
ELEV RT AGL (m) :	4.6	DAYS +/- CURVE :		LEAK-OFF SG :	1.55	CUM COST \$:	1,273,559

Gas and General Data		WEATHER :	
MAX GAS % :	0.0	Cloudy and light rain	
B/G GAS % :	0.0	STATUS @ 0600 :	Rig down rigfloor/cleaning mud tanks

Bit Data for Bit # 0		IADC #	
BIT SIZE ("):		AVE WOB (k-lbs) :	
MANUFACTURER :		AVE RPM :	
TYPE :		FLOW (gpm) :	
SERIAL # :		PUMP PRESS. (psi):	
DEPTH IN (m RT) :		NOZZ n/32"	
DEPTH OUT (m RT) :		HHSI (hp/sq in) :	
Calculated over last 24 hrs		Calculated over the bit run	
METRAGE (m) :		CUM. METRAGE (m) :	
ON BOTTOM HRS :		CUM. ON BOT. HRS :	
ROTATING HRS :		CUM.ROT. HRS :	
ROP m/h		ROP m/h	
Bit Wear			
#	MTGE	HRS	I O D L B G O R
0			

Mud Data		DAILY COST : 2,374		CUM COST : 107,214	
Chk #:36 / TYPE: KCl-PHPA		Chk #:0 / TYPE :			
Property	Chk36	Chk 0	Property	Chk 36	Chk 0
SAMPLE FROM:	0		TEMP (Deg C) :	0	0
TIME :	00		SOLIDS (%vol) :	0	0
WEIGHT(ppg) :	9.3	0.0	H2O (%vol) :	0.0	0.0
DEPTH m :	2800	0	OIL (%vol) :	0	0
VIS. (sec/qt):	0	0	SAND(%vol) :	0	0
PV (cp) :	0	0	MBT (ppb eq.) :	0	0
YP (lb/100sf) :	0	0	PH :	0.0	0.00
GEL10s(lb/100sf) :	0	0	Cl- (ppm) :	0	0
GEL10m(lb/100sf) :	0	0	K+ (ppm) :	0	0
Fann 3RPM :	0	0	HRD/CA (ppm)	0	0
Fann 6RPM :	0	0	API F. loss :	0.0	0.0

BHA Data : BHA #			
BHA LENGTH (m) :		WT BLW JAR(k-lbs):	
HRS ON JARS :		BHA WT(k-lbs) :	
BHA DESCRIPTION :		STRING WT(k-lbs) :	
		PICK UP WT(k-lbs) :	
		SLK OFF WT(k-lbs) :	
		TRQE MAX (amps) :	
		TRQE ON (amps) :	
		TRQE OFF (amps) :	

Bulk Stocks on site			
DRILL WATER (MT):	0	FUEL (ltr):	29300
POT WATER (MT):	0	BARITE (sx) :	1050
		CEMENT (sx):	0
		GEL (sx):	10

Survey (last 4 points)		Tool Type :DIPMETER				
MD (m RT)	TVD (m RT)	INCL deg	AZ. deg	V SECT (m)	N/S (m)	E/W (m)
2,346		6.00				
2,589		7.50	N5W	112.0		
2,785						
2,786		9.00	N			

Current Pump Data and Slow Circulating Rate Data									
Pump Data - last 24 hrs						SCR Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow gpm	SPP psi	SPM	SPP psi	DEPTH m RT
1	GD-PZ-8	6.00		97.0					
2	GD-PZ-8	6.00		97.0					

Personnel on Site =24			
NAME	JOB TITLE	COMPANY NAME	#
Henry Flink	Drilling Supervisor	Cultus ODE Halliburton	1 21 2

Drills, Permits & Inspections			
DRILL TYPE	TIMING	INSPECTIONS	TIMING
TRIP DRILL		LAST CSG PRESS TEST	
FIRE		SAFETY MEETING	4/2/97
PIT DRILL		SAFETY INSPECTION	2/2/97
INCIDENT	1/2/97	DAYS SINCE LAST BOP TES	
		LAST BOP TEST	

Casing						
#	TYPE	LENGTH (m)	CSG ID (")	WEIGHT (lb/ft)	GRADE	THREAD

Formation Tops		
FORMATION	TOP m	BIT#
		1RR
		1RR
		1RR
		1RR
Pember	485.00	2RR
Pebble Point	523.00	4
Paratte	543.00	4
Skull Creek/Belfast	625.00	4
Eumeralla	695.00	4
Inter Eumeralla Sand	1,351.00	4
Lower Eumeralla	1,435.00	8RR

ACTIVITY FOR PERIOD 00:00 HRS TO 24:00 HRS ON 8/02/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
I1	PA	RD	00:00	06:00	6.0	2,800	Lay out kelly n/down and remove bop, clean mud tanks Recover well head- Set plug no 3 at surface with 5 sxs of class G cement Weld on top plate and install well sign post. RELEASE RIG AT 0900 HOURS ON THE 8TH of FEBRUARY 1997
I1	PA	RD	06:00	09:00	3.0	2,800	
			09:00	09:00	0.0	2,800	

ACTIVITY FOR PERIOD 00:00 HRS TO 06:00 HRS ON 0/00/0000

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY

REPORT# :21

Report Date: 7/02/97

Issue Date :10/02/97

Page Number : 1

Basic Data		Well Data					
DRILLING CO. :	O.D.E.	DEPTH m :	2,800.0	HOLE SIZE("):	8.50	TOT PERS ON SITE :	24
RIG :	30	PROGRESS m :	0.0	LAST CSG SIZE("):	9.625	AFE COST \$:	1,526,700
GL ABOVE MSL (m) :	49.0	DAYS FROM SPUD :	20.15	SHOE DEPTH m :	492.80	DAILY COST \$:	31,211
ELEV RT AGL (m) :	4.6	DAYS +/- CURVE :		LEAK-OFF SG :	1.55	CUM COST \$:	

Gas and General Data		WEATHER :	
MAX GAS % :	0.0	Cloudy and light rain	
BIG GAS % :	0.0	STATUS @ 0600 :	Rig down rigfloor/cleaning mud tanks

Bit Data for Bit #0		IADC #		Mud Data DAILY COST : 2,374						
BIT SIZE ("):		AVE WOB (k-lbs) :		Chk #:36 / TYPE: KCl-PHPA	Chk #:0 / TYPE :					
MANUFACTURER :		AVE RPM :		Property	Chk36	Chk 0	Property	Chk 36	Chk 0	
TYPE :		FLOW (gpm) :		SAMPLE FROM:	0		TEMP (Deg C) :	0	0	
SERIAL # :		PUMP PRESS. (psi):		TIME :	00		SOLIDS (%vol) :	0.0	0.0	
DEPTH IN (m RT) :		NOZZ n/32"		WEIGHT(ppg) :	9.3	0.0	H2O (%vol) :	0.0	0.0	
DEPTH OUT (m RT) :		HHSI (hp/sq in) :		DEPTH m :	2800	0	OIL (%vol) :	0	0	
Calculated over last 24 hrs		Calculated over the bit run		VIS. (sec/qt):	0	0	SAND(%vol) :	0	0	
METRAGE (m) :		CUM. METRAGE (m) :		PV (cp) :	0	0	MBT (ppb eq.) :	0	0	
ON BOTTOM HRS :		CUM. ON BOT. HRS :		YP (lb/100sf) :	0	0	PH :	0.0	0.00	
ROTATING HRS :		CUM.ROT. HRS :		GEL10s(lb/100sf) :	0	0	Cl- (ppm) :	0	0	
ROP m/h		ROP m/h		GEL10m(lb/100sf) :	0	0	K+ (ppm) :	0	0	
Bit Wear				Fann 3RPM :	0	0	HRD/CA (ppm)	0	0	
#	MTGE	HRS	I	O	D	L	B	G	O	R
0										

BHA Data : BHA #			
BHA LENGTH (m) :		WT BLW JAR(k-lbs):	
HRS ON JARS :		BHA WT(k-lbs) :	
BHA DESCRIPTION :		STRING WT(k-lbs) :	
		PICK UP WT(k-lbs) :	
		SLK OFF WT(k-lbs) :	
		TRQE MAX (amps) :	
		TRQE ON (amps) :	
		TRQE OFF (amps) :	

Bulk Stocks on site			
DRILL WATER (MT):	0	FUEL (ltr):	29300
POT WATER (MT):	0	CEMENT (sx):	0
		BARITE (sx) :	1050
		GEL (sx):	10

Survey (last 4 points)		Tool Type :DIPMETER				
MD (m RT)	TVD (m RT)	INCL deg	AZ. deg	V SECT (m)	N/S (m)	E/W (m)
2,346		6.00				
2,589		7.50	N5W	112.0		
2,785						
2,786		9.00	N			

Formation Tops		
FORMATION	TOP m	BIT#
		1RR
		1RR
		1RR
		1RR
Pember	485.00	2RR
Pebble Point	523.00	4
Paratte	543.00	4
Skull Creek/Belfast	625.00	4
Eumeralla	695.00	4
Inter Eumeralla Sand	1,351.00	4
Lower Eumeralla	1,435.00	8RR

Casing						
#	TYPE	LENGTH (m)	CSG ID (")	WEIGHT (lb/ft)	GRADE	THREAD

ACTIVITY FOR PERIOD 00:00 HRS TO 24:00 HRS ON 7/02/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
11	TA	RR	00:00	01:00	1.0	2,800	Cont change brake band on draw work
11	PA	TRP	01:00	02:00	1.0	2,800	RIH with OE drillpipe to 725m
11	PA	CM	02:00	03:00	1.0	2,800	R/U surface equipment - Held pre job safety meeting
11	PA	CM	03:00	04:30	1.5	2,800	Pump 5 bbl of DW -P/test lines to 1000 psi- set cmt plug no 1 F/725 to 665m with 74 sxs class G of 15.8 ppg. Displaced w/1.4 bbl dw and 28 bbl mud-p/b to 523m - circ.clean
11	PA	CM	04:30	06:00	1.5	2,800	Set cmt plug no 2 with 72 sxs F/523 to 463 class G of 15.8 ppg. Lost .5 hr due to blocked bulk line. displaced and pulled 2 std circulating clean
	PA	CIR	06:00	06:30	.5	2,800	Circulate clean after plug no 2
11	PA	LDP	06:30	14:00	7.5	2,800	Lay down drillpipe- Break kelly - Lay down BHA/drill collar
11	PA	LDP	14:00	14:30	.5	2,800	RIH and tag toc plug at 468m. weight tested with 10,000 Lbs.
11	PA	CIR	14:30	15:00	.5	2,800	Circulate pipe clean
11	PA	LDP	15:00	18:30	3.5	2,800	Continued laying down drill pipe
11	PA	SC	18:30	19:30	1.0	2,800	Slip and Cut drilling line
11	PA	LDP	19:30	21:30	2.0	2,800	Cont. laying down drillpipe
11	PA	CIR	21:30	22:00	.5	2,800	Displace to inhibited mud from 465m to surface
11	PA	LDP	22:00	22:30	.5	2,800	Cont. laying down drillpipe
11	PA	RD	22:30	24:00	1.5	2,800	Flush standpie, kelly, bop, choke mfd, mud pumps, poorboy and all associated equipment, Dump mud tanks , lay out mouse hole

BR

Cultus Petroleum NL

DAILY DRILLING REPORT

Taralea #1

REPORT# :20

Report Date: 6/02/97

Issue Date :7/02/97

Page Number : 1

Basic Data		Well Data	
DRILLING CO. :	O.D.E.	DEPTH m :	2,800.0
RIG :	30	PROGRESS m :	0.0
GL ABOVE MSL (m) :	49.0	DAYS FROM SPUD :	19.15
ELEV RT AGL (m) :	4.6	DAYS +/- CURVE :	
		HOLE SIZE("):	8.50
		LAST CSG SIZE("):	9.625
		SHOE DEPTH m :	492.80
		LEAK-OFF SG :	1.55
		TOT PERS ON SITE :	34
		AFE COST \$:	1,526,700
		DAILY COST \$:	31,211
		CUM COST \$:	1,072,857

Gas and General Data		Weather	
MAX GAS % :	0.0	WEATHER :	Cloudy
B/G GAS % :	0.0	STATUS @ 0600 :	Circulate clean after plug no 2.

Bit Data for Bit # 0		IADC #		Mud Data		DAILY COST : 2,374		CUM COST : 102,466	
BIT SIZE ("):		AVE WOB (k-lbs) :		Chk #36 / TYPE:	KCl-PHPA	Chk #0 / TYPE :			
MANUFACTURER :		AVE RPM :		Property	Chk36	Chk 0	Property	Chk 36	Chk 0
TYPE :		FLOW (gpm) :		SAMPLE FROM:	FL		TEMP (Deg C) :	0	0
SERIAL # :		PUMP PRESS. (psi):		TIME :	2100		SOLIDS (%vol) :	6.2	
DEPTH IN (m RT) :		NOZZ n/32"		WEIGHT(ppg) :	9.3	0.0	H2O (%vol) :	93.8	0.0
DEPTH OUT (m RT) :		HHSI (hp/sq in) :		DEPTH m :	2800	0	OIL (%vol) :	0	0
				VIS. (sec/qt):	55	0	SAND(%vol) :	Tr	
Calculated over last 24 hrs		Calculated over the bit run		PV (cp) :	16	0	MBT (ppb eq.) :	11	0
METRAGE (m) :		CUM. METRAGE (m) :		YP (lb/100sf) :	24	0	PH :	9.0	0.00
ON BOTTOM HRS :		CUM. ON BOT. HRS :		GEL10s(lb/100sf) :	4	0	Cl- (ppm) :	17800	0
ROTATING HRS :		CUM.ROT. HRS :		GEL10m(lb/100sf) :	19	0	K+ (ppm) :	11600	0
ROP m/h		ROP m/h		Fann 3RPM :	20	0	HRD/CA (ppm)	400	0
				Fann 6RPM :	4	0	API F. loss :	5.7	0.0

Bit Wear	#	MTGE	HRS	I	O	D	L	B	G	O	R
0											

BHA Data : BHA #		WT BLW JAR(k-lbs):		STRING WT(k-lbs) :		TRQE MAX (amps) :	
BHA LENGTH (m) :		BHA WT(k-lbs) :		PICK UP WT(k-lbs) :		TRQE ON (amps) :	
HRS ON JARS :				SLK OFF WT(k-lbs) :		TRQE OFF (amps) :	
BHA DESCRIPTION :							

Bulk Stocks on site		DRILL WATER (MT): 0		FUEL (ltr): 30850		CEMENT (sx): 185	
		POT WATER (MT): 0		BARITE (sx) : 1050		GEL (sx): 10	

Survey (last 4 points)		Tool Type :DIPMETER				
MD (m RT)	TVD (m RT)	INCL deg	AZ. deg	V SECT (m)	N/S (m)	E/W (m)
2,346		6.00				
2,589		7.50	N5W			
2,785						
2,786		9.00	N			

Pump Data - last 24 hrs						SCR Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow gpm	SPP psi	SPM	SPP psi	DEPTH m RT
1	GD-PZ-8	6.00		97.0					
2	GD-PZ-8	6.00		97.0					

Personnel on Site = 34			
NAME	JOB TITLE	COMPANY NAME	#
Henry Flink	Drilling Supervisor	Cultus	3
Dave Horner	Geologist	ODE	22
Bruce Richardson	Drilling Engineer	Halliburton	4
		IDFS	1
		Aust DST	1
		BPB +VEL.DATA	3

Drills, Permits & Inspections			
DRILL TYPE	TIMING	INSPECTIONS	TIMING
TRIP DRILL	3/2/97	LAST CSG PRESS TEST	23/1/97
FIRE		SAFETY MEETING	4/2/97
PIT DRILL	4/2/97	SAFETY INSPECTION	2/2/97
INCIDENT	1/2/97	DAYS SINCE LAST BOP TES	15
		LAST BOP TEST	23/1/97

Casing						
#	TYPE	LENGTH (m)	CSG ID (")	WEIGHT (lb/ft)	GRADE	THREAD

Formation Tops		
FORMATION	TOP m	BIT#
		1RR
		1RR
		1RR
		2RR
Pember	485.00	
Pebble Point	523.00	4
Paratte	543.00	4
Skull Creek/Belfast	625.00	4
Eumeralla	695.00	4
Inter Eumeralla Sand	1,351.00	4
Lower Eumeralla	1,435.00	8RR

ACTIVITY FOR PERIOD 00:00 HRS TO 24:00 HRS ON6/02/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
11	PD	TRP	00:00	03:30	3.5	2,800	POH SLM
11	PE	HT	03:30	04:30	1.0	2,800	Lay down monel, roller reamers, flush motor, recover survey - missrun
11	PE	LO	04:30	05:30	1.0	2,800	Clean floor, held safety meeting with BPB/VEL. Data. R/U to log
11	PE	LO	05:30	12:00	6.5	2,800	RIH with vel. data tool. Took check shot at 21 levels. R/D Data log. HUD 2798m
11	PE	LO	12:00	18:30	6.5	2,800	Prepare and rig up DDL-GR-SP-CAL-SONIC-MSFL. Run log nr 2 HUD 2797m RD nr 2 logging tool
11	PE	LO	18:30	23:30	5.0	2,800	R/U and run log nr 3 Dipmeter. Hud 2797m BHT 117 Deg C. Dev. 9.0 Deg at 2785
11	TA	RR	23:30	24:00	.5	2,800	Changed out brake band on draw work - drillers side

ACTIVITY FOR PERIOD 00:00 HRS TO 06:00 HRS ON7/02/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
11	TA	RR	00:00	01:00	1.0	2,800	Cont change brake band on draw work
11	PA	TRP	01:00	02:00	1.0	2,800	RIH with OE drillpipe to 725m
11	PA	CM	02:00	03:00	1.0	2,800	R/U surface equipment - Held pre job safety meeting
11	PA	CM	03:00	04:30	1.5	2,800	Pump 5 bbl of DW -P/test lines to 1000 psi- set cmt plug no 1 F/ 725 to 665m with 74 sxs class G of 15.8 ppg. Displaced w/1.4 bbl dw and 28 bbl mud-p/b to 523m - circ. clean
11	PA	CM	04:30	06:00	1.5	2,800	Set cmt plug no 2 F/523 to 463 72 sxs class G of 15.8 ppg. Lost .5 hr due to blocked bulk line. displaced and pulled 2 std circulating clean

Cultus Petroleum NL

DAILY DRILLING REPORT

Taralea #1

REPORT# :19

Report Date: 5/02/97

Issue Date : 6/02/97

Page Number : 1

Basic Data		Well Data					
DRILLING CO. :	O.D.E.	DEPTH m :	2,800.0	HOLE SIZE("):	8.50	TOT PERS ON SITE :	38
RIG :	30	PROGRESS m :	95.0	LAST CSG SIZE("):	9.625	AFE COST \$:	1,526,700
GL ABOVE MSL (m) :	49.0	DAYS FROM SPUD :	18.15	SHOE DEPTH m :	492.80	DAILY COST \$:	39,488
ELEV RT AGL (m) :	4.6	DAYS +/- CURVE :		LEAK-OFF SG :	1.55	CUM COST \$:	1,041,646

Gas and General Data		WEATHER :	
MAX GAS % :	.2	WEATHER :	Fine and clear.
B/G GAS % :	.1	STATUS @ 0600 :	Conducting checkshot survey at TD

Bit Data for Bit #9		IADC # 4 4 7	
BIT SIZE ("):	8.50	AVE WOB (k-lbs) :	35
MANUFACTURER :	SM	AVE RPM :	235
TYPE :	MF15	FLOW (gpm) :	400
SERIAL # :	LF0271	PUMP PRESS. (psi):	1,950
DEPTH IN (m RT) :	2615	NOZZ n/32" :	16 14 14
DEPTH OUT (m RT) :	2800	HHSI (hp/sq in) :	1.90
Calculated over last 24 hrs		Calculated over the bit run	
METRAGE (m) :	95	CUM. METRAGE (m) :	185
ON BOTTOM HRS :	16.5	CUM. ON BOT. HRS :	33.0
ROTATING HRS :		CUM.ROT. HRS :	
ROP m/h	5.8	ROP m/h	5.6

Mud Data		DAILY COST : 4,248		CUM COST : 100,092	
Chk #:34 / TYPE: KCl-PHPA		Chk #:35 / TYPE: KCl-PHPA			
Property	Chk34	Chk 35	Property	Chk 34	Chk 35
SAMPLE FROM:	FL	FL	TEMP (Deg C)	65	64
TIME :	14:00	20:30	SOLIDS (%vol) :	6.2	6.2
WEIGHT(ppg) :	9.3	9.3	H2O (%vol) :	93.7	93.7
DEPTH m :	2784	2800	OIL (%vol) :	0	0
VIS. (sec/qt):	55	50	SAND(%vol) :	Tr	Tr
PV (cp) :	15	16	MBT (ppb eq.) :	8	10
YP (lb/100sf) :	24	23	PH :	9.0	8.80
GEL10s(lb/100sf) :	2	3	Cl- (ppm) :	14600	17600
GEL10m(lb/100sf) :	15	17	K+ (ppm) :	9800	12000
Fann 3RPM :	24	22	HRD/CA (ppm)	460	420
Fann 6RPM :	6	4	API F. loss :	7.2	6.3

Bit Wear	#	MTGE	HRS	I	O	D	L	B	G	O	R
	9	185	33.0	3	3	BT	H	E	1	CT	TD

BHA Data : BHA #9			
BHA LENGTH (m) :	292.6	WT BLW JAR(k-lbs):	43
HRS ON JARS :	222	BHA WT(k-lbs) :	61
BHA DESCRIPTION :	Bit #9, Motor, X/O, 8 1/2" R/Rmr, X/O, Monel DC, X/O, 8 1/2" R/Rmr, 16 x 6 1/2" D/C, Jars, 2 x 6 1/2" D/C, 10 x HWDP		
		STRING WT(k-lbs) :	180
		PICK UP WT(k-lbs) :	190
		SLK OFF WT(k-lbs) :	155
		TRQE MAX (amps) :	140
		TRQE ON (amps) :	140
		TRQE OFF (amps) :	90

Bulk Stocks on site			
DRILL WATER (MT):	0	FUEL (ltr):	32950
POT WATER (MT):	0	CEMENT (sx):	185
		BARITE (sx):	1050
		GEL (sx):	10

Survey (last 4 points)		Tool Type :Misrun				
MD (m RT)	TVD (m RT)	INCL deg	AZ. deg	V SECT (m)	N/S (m)	E/W (m)
2,180		6.50	14E	69.0		
2,346		6.00				
2,589		7.50	N5W	112.0		
2,785						

Current Pump Data and Slow Circulating Rate Data									
Pump Data - last 24 hrs						SCR Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow gpm	SPP psi	SPM	SPP psi	DEPTH m RT
1	GD-PZ-8	6.00	70	97.0	400	1950	45	430	2767
2	GD-PZ-8	6.00	70	97.0			55	510	2767

Personnel on Site =38			
NAME	JOB TITLE	COMPANY NAME	#
Henry Flink	Drilling Supervisor	Cultus	3
Dave Homer	Geologist	ODE	23
Bruce Richardson	Drilling Engineer	Halliburton	5
		IDFS	1
		Aust DST	1
		BPB +VEL.DATA	5

Drills, Permits & Inspections			
DRILL TYPE	TIMING	INSPECTIONS	TIMING
TRIP DRILL	3/2/97	LAST CSG PRESS TEST	23/1/97
FIRE		SAFETY MEETING	4/2/97
PIT DRILL	4/2/97	SAFETY INSPECTION	2/2/97
INCIDENT	1/2/97	DAYS SINCE LAST BOP TES	14
		LAST BOP TEST	23/1/97

Casing						
#	TYPE	LENGTH (m)	CSG ID (")	WEIGHT (lb/ft)	GRADE	THREAD

Formation Tops		
FORMATION	TOP m	BIT#
		1RR
		1RR
		1RR
		1RR
Pember	485.00	2RR
Pebble Point	523.00	4
Paratte	543.00	4
Skull Creek/Belfast	625.00	4
Eumeralla	695.00	4
Inter Eumeralla Sand	1,351.00	4
Lower Eumeralla	1,435.00	8RR

ACTIVITY FOR PERIOD 00:00 HRS TO 24:00 HRS ON5/02/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
I1	PD	DM	00:00	12:30	12.5	2,779	Drill 8 1/2" hole with motor 2705m to 2740m.
I1	TD	RR	12:30	13:30	1.0	2,779	Lost 1200 psi pump pressure. Check surface equipment, rectify fault in SCR unit.
I1	PD	DM	13:30	17:30	4.0	2,800	Drill 8 1/2" hole with motor 2779m to 2800m.
I1	PD	CIR	17:30	18:30	1.0	2,800	Circulate hole clean, flow check well
I1	PD	WT	18:30	20:00	1.5	2,800	Conduct 10 stand wiper trip, 10k O/P maximum. RIH to 2800m
I1	PD	CIR	20:00	21:00	1.0	2,800	Circulate hole clean
I1	PD	S	21:00	21:30	.5	2,800	Drop single shot survey, flow check well
I1	PD	TRP	21:30	24:00	2.5	2,800	Pump slug, POH SLM

ACTIVITY FOR PERIOD 00:00 HRS TO 06:00 HRS ON6/02/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
I1	PD	TRP	00:00	03:30	3.5	2,800	POH SLM
I1	PD	HT	03:30	04:00	.5	2,800	Lay down monel, roller reamers, flush motor
I1	PE	LO	04:00	06:00	2.0	2,800	Hold safety meeting with BPB. Rig up to log

Cultus Petroleum NL

DAILY DRILLING REPORT

Taralea #1

REPORT# :18

Report Date: 4/02/97

Issue Date : 5/02/97

Page Number : 1

Basic Data		Well Data					
DRILLING CO. :	O.D.E.	DEPTH m :	2,705.0	HOLE SIZE("):	8.50	TOT PERS ON SITE :	32
RIG :	30	PROGRESS m :	90.0	LAST CSG SIZE("):	9.625	AFE COST \$:	1,526,700
GL ABOVE MSL (m) :	49.0	DAYS FROM SPUD :	17.15	SHOE DEPTH m :	492.80	DAILY COST \$:	53,668
ELEV RT AGL (m) :	4.6	DAYS +/- CURVE :		LEAK-OFF SG :	1.55	CUM COST \$:	1,002,158

Gas and General Data		WEATHER :	
MAX GAS % :	2.0	Fine and clear.	
B/G GAS % :	.2	STATUS @ 0600 :	Drilling 8.5" hole@ 2740m

Bit Data for Bit #9		IADC # 4 4 7	
BIT SIZE ("):	8.50	AVE WOB (k-lbs) :	35
MANUFACTURER :	SM	AVE RPM :	235
TYPE :	MF15	FLOW (gpm) :	400
SERIAL # :	LF0271	PUMP PRESS. (psi):	1,950
DEPTH IN (m RT) :	2615	NOZZ n/32" :	16 14 14
DEPTH OUT (m RT) :		HHSI (hp/sq in) :	1.90
Calculated over last 24 hrs		Calculated over the bit run	
METRAGE (m) :	90	CUM. METRAGE (m) :	90
ON BOTTOM HRS :	16.5	CUM. ON BOT. HRS :	16.5
ROTATING HRS :		CUM.ROT. HRS :	
ROP m/h	5.5	ROP m/h	5.5

Mud Data		DAILY COST : 4,764		CUM COST : 91,596	
Chk #:32 / TYPE: KCI-PHPA		Chk #:33 / TYPE: KCI-PHPA			
Property	Chk32	Chk 33	Property	Chk 32	Chk 33
SAMPLE FROM:	FL	FL	TEMP (Deg C)	59	62
TIME :	1400	22.30	SOLIDS (%vol)	6.3	6.3
WEIGHT(ppg) :	9.4	9.3	H2O (%vol) :	93.7	93.7
DEPTH m :	2651	2698	OIL (%vol) :	0	0
VIS. (sec/qt):	50	54	SAND(%vol) :	Tr	Tr
PV (cp) :	17	17	MBT (ppb eq.) :	10	10
YP (lb/100sf) :	22	20	PH :	9.0	9.00
GEL10s(lb/100sf) :	3	2	Cl- (ppm) :	14100	16200
GEL10m(lb/100sf) :	11	15	K+ (ppm) :	9900	11900
Fann 3RPM :	17	16	HRD/CA (ppm)	500	500
Fann 6RPM :	4	4	API F. loss :	5.5	6.2

Bit Wear	#	MTGE	HRS	I	O	D	L	B	G	O	R
	9	90	16.5								

BHA Data : BHA #9		WT BLW JAR(k-lbs):		STRING WT(k-lbs) :		TRQE MAX (amps) :	
BHA LENGTH (m) :	292.6	43		180		140	
HRS ON JARS :	222	61		190		140	
BHA DESCRIPTION :	Bit #9, Motor, X/O, 8 1/2" R/Rmr, X/O, Monel DC, X/O, 8 1/2" R/Rmr, 16 x 6 1/2" D/C, Jars, 2 x 6 1/2" D/C, 10 x HWDP						
				155		90	

Bulk Stocks on site		DRILL WATER (MT): 0		FUEL (ltr): 11650		CEMENT (sx): 185	
		POT WATER (MT): 0		BARITE (sx) : 1092		GEL (sx): 10	

Survey (last 4 points)		Tool Type :S/Shot				
MD (m RT)	TVD (m RT)	INCL deg	AZ deg	V SECT (m)	N/S (m)	E/W (m)
2,080		5.50				
2,180		6.50	14E	69.0		
2,346		6.00				
2,589		7.50	N5W	112.0		

Current Pump Data and Slow Circulating Rate Data									
Pump Data - last 24 hrs						SCR Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow gpm	SPP psi	SPM	SPP psi	DEPTH m RT
1	GD-PZ-8	6.00	70	97.0	400	1950	45	370	2644
2	GD-PZ-8	6.00	70	97.0			55	470	2644

Personnel on Site = 32			
NAME	JOB TITLE	COMPANY NAME	#
Henry Flink	Drilling Supervisor	Cultus	4
Dave Horner	Geologist	ODE	23
		Halliburton	3
		IDFS	1
		Aust DST	1

Drills, Permits & Inspections			
DRILL TYPE	TIMING	INSPECTIONS	TIMING
TRIP DRILL	3/2/97	LAST CSG PRESS TEST	23/1/97
FIRE		SAFETY MEETING	4/2/97
PIT DRILL	4/2/97	SAFETY INSPECTION	2/2/97
INCIDENT	1/2/97	DAYS SINCE LAST BOP TES	12
		LAST BOP TEST	23/1/97

Casing						
#	TYPE	LENGTH (m)	CSG ID (")	WEIGHT (lb/ft)	GRADE	THREAD

Formation Tops		
FORMATION	TOP m	BIT#
		1RR
		1RR
		1RR
		1RR
Pember	485.00	2RR
Pebble Point	523.00	4
Paratte	543.00	4
Skull Creek/Belfast	625.00	4
Eumeralla	695.00	4
Inter Eumeralla Sand	1,351.00	4
Lower Eumeralla	1,435.00	8RR

ACTIVITY FOR PERIOD 00:00 HRS TO 24:00 HRS ON4/02/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
I1	PD	TO	00:00	01:00	1.0	2,615	POOH.
I1	PD	HT	01:00	02:00	1.0	2,615	Gauge reamers - 1/16" under. Change bit. Function test motor.
I1	PD	TI	02:00	06:00	4.0	2,615	RIH.
I1	PD	TI	06:00	07:00	1.0	2,615	RIH. Work through tight spot at 2543m.
I1	PD	RW	07:00	07:30	.5	2,615	Wash and ream 2593m to 2615m.
I1	PD	DM	07:30	24:00	16.5	2,705	Drill 8 1/2" hole with motor 2615m to 2705m. lost 40 bbl @2675m. Avg 3bbl/hr 2615 to 2640

ACTIVITY FOR PERIOD 00:00 HRS TO 06:00 HRS ON5/02/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
I1	PD	DM	00:00	06:00	6.0	2,740	Drill 8 1/2" hole with motor 2705m to 2740m.

Basic Data		Well Data					
DRILLING CO. :	O.D.E.	DEPTH m :	2,615.0	HOLE SIZE("):	8.50	TOT PERS ON SITE :	31
RIG :	30	PROGRESS m :	144.0	LAST CSG SIZE("):	9.625	AFE COST \$:	1,526,700
GL ABOVE MSL (m) :	49.0	DAYS FROM SPUD :	16.15	SHOE DEPTH m :	492.80	DAILY COST \$:	39,119
ELEV RT AGL (m) :	4.6	DAYS +/- CURVE :		LEAK-OFF SG :	1.55	CUM COST \$:	948,490

Gas and General Data		WEATHER :	
MAX GAS % :	.8	WEATHER :	Fine and clear.
B/G GAS % :	.1	STATUS @ 0600 :	RIH with new bit.

Bit Data for Bit #8RR		IADC # 4 4 7	
BIT SIZE ("):	8.50	AVE WOB (k-lbs) :	35
MANUFACTURER :	HU	AVE RPM :	225
TYPE :	ATMGT180D	FLOW (gpm) :	370
SERIAL # :	L01CF	PUMP PRESS. (psi):	1,900
DEPTH IN (m RT) :	2126	NOZZ n/32" :	14 14 14
DEPTH OUT (m RT) :	2615	HHSI (hp/sq in) :	2.16
Calculated over last 24 hrs		Calculated over the bit run	
METRAGE (m) :	144	CUM. METRAGE (m) :	489
ON BOTTOM HRS :	19.0	CUM. ON BOT. HRS :	59.0
ROTATING HRS :	14.4	CUM.ROT. HRS :	46.0
ROP m/h	7.6	ROP m/h	8.3

Mud Data		DAILY COST : 2,939		CUM COST : 82,068	
Chk #:30 / TYPE: KCI-PHPA		Chk #:31 / TYPE: KCI-PHPA			
Property	Chk30	Chk 31	Property	Chk 30	Chk 31
SAMPLE FROM:	FL	FL	TEMP (Deg C) :	62	61
TIME :	1030	2000	SOLIDS (%vol) :	6.0	6.4
WEIGHT(ppg) :	9.3	9.3	H2O (%vol) :	94.0	93.6
DEPTH m :	2548	2615	OIL (%vol) :	0	0
VIS. (sec/qt):	56	53	SAND(%vol) :	Tr	0.1
PV (cp) :	17	16	MBT (ppb eq.) :	13	12
YP (lb/100sf) :	20	19	PH :	9.0	9.00
GEL10s(lb/100sf) :	3	2	Cl- (ppm) :	15000	14200
GEL10m(lb/100sf) :	14	10	K+ (ppm) :	11000	11000
Fann 3RPM :	3	2	HRD/CA (ppm)	560	500
Fann 6RPM :	4	3	API F. loss :	5.6	5.6

Bit Wear	#	MTGE	HRS	I	O	D	L	B	G	O	R
	8RR	489	59.0	4	6	BT	A	E	I	E	HR

BHA Data : BHA #9			WT BLW JAR(k-lbs):		STRING WT(k-lbs) :		TRQE MAX (amps) :	
BHA LENGTH (m) :	292.6		43		160		140	
HRS ON JARS :	206		61		165		120	
BHA DESCRIPTION :	Bit #8RR, Motor, X/O, 8 1/2" R/Rmr, X/O, Monel DC, X/O, 8 1/2" R/Rmr, 16 x 6 1/2" D/C, Jars, 2 x 6 1/2" D/C, 10 x HWDP				155		80	

Bulk Stocks on site		DRILL WATER (MT): 0		FUEL (ltr): 15600		CEMENT (sx): 185	
		POT WATER (MT): 0		BARITE (sx): 1120		GEL (sx): 10	

Survey (last 4 points)		Tool Type :S/Shot				
MD (m RT)	TVD (m RT)	INCL deg	AZ. deg	V SECT (m)	N/S (m)	E/W (m)
2,080		5.50				
2,180		6.50	14E	69.0		
2,346		6.00				
2,589		7.50	N5W	112.0		

Current Pump Data and Slow Circulating Rate Data									
Pump Data - last 24 hrs					SCR Data				
#	TYPE	LNR (")	SPM	EFF (%)	Flow gpm	SPP psi	SPM	SPP psi	DEPTH m RT
1	GD-PZ-8	6.00	65	97.0	370	1900	45	380	2482
2	GD-PZ-8	6.00	65	97.0			55	480	2482

Personnel on Site =31			
NAME	JOB TITLE	COMPANY NAME	#
Alex Bradley	Drilling Supervisor	Cultus	3
Dave Horner	Geologist	ODE	23
		Halliburton	3
		IDFS	1
		Aust DST	1

Drills, Permits & Inspections			
DRILL TYPE	TIMING	INSPECTIONS	TIMING
TRIP DRILL	3/2/97	LAST CSG PRESS TEST	23/1/97
FIRE		SAFETY MEETING	3/2/97
PIT DRILL	2/2/97	SAFETY INSPECTION	2/2/97
INCIDENT	1/2/97	DAYS SINCE LAST BOP TES	11
		LAST BOP TEST	23/1/97

Casing						
#	TYPE	LENGTH (m)	CSG ID (")	WEIGHT (lb/ft)	GRADE	THREAD

Formation Tops		
FORMATION	TOP m	BIT#
		1RR
		1RR
		1RR
		1RR
Pember	485.00	2RR
Pebble Point	523.00	4
Paratte	543.00	4
Skull Creek/Belfast	625.00	4
Eumeralla	695.00	4
Inter Eumeralla Sand	1,351.00	4
Lower Eumeralla	1,435.00	8RR

ACTIVITY FOR PERIOD 00:00 HRS TO 24:00 HRS ON3/02/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
I1	PD	DM	00:00	06:00	6.0	2,518	Drill 8 1/2" hole with motor 2471m to 2518m.
I1	PD	DM	06:00	07:30	1.5	2,529	Drill 8 1/2" hole with motor 2518m to 2529m.
I1	PD	RS	07:30	08:00	.5	2,529	Rig Service.
I1	PD	DM	08:00	19:30	11.5	2,615	Drill 8 1/2" hole with motor 2529m to 2615m.
I1	PD	CIR	19:30	20:30	1.0	2,615	Circulate bottoms up.
I1	PD	TO	20:30	24:00	3.5	2,615	Drop single shot survey. POOH.

ACTIVITY FOR PERIOD 00:00 HRS TO 06:00 HRS ON4/02/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
I1	PD	TO	00:00	01:00	1.0	2,615	POOH.
I1	PD	HT	01:00	02:00	1.0	2,615	Gauge reamers - 1/16" under. Change bit. Function test motor.
I1	PD	TI	02:00	06:00	4.0	2,615	RIH.

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Basic Data		Well Data					
DRILLING CO. :	O.D.E.	DEPTH m :	2,471.0	HOLE SIZE("):	8.50	TOT PERS ON SITE :	32
RIG :	30	PROGRESS m :	180.0	LAST CSG SIZE("):	9.625	AFE COST \$:	1,076,300
GL ABOVE MSL (m) :	49.0	DAYS FROM SPUD :	15.15	SHOE DEPTH m :	492.80	DAILY COST \$:	39,448
ELEV RT AGL (m) :	4.6	DAYS +/- CURVE :		LEAK-OFF SG :	1.55	CUM COST \$:	909,371

Gas and General Data		WEATHER :	
MAX GAS % :	.4	WEATHER :	Cool and overcast.
B/G GAS % :	.1	STATUS @ 0600 :	Drill 8 1/2" hole with motor at 2518m.

Bit Data for Bit # 8RR		IADC # 4 4 7	
BIT SIZE ("):	8.50	AVE WOB (k-lbs) :	35
MANUFACTURER :	HU	AVE RPM :	225
TYPE :	ATMGT180D	FLOW (gpm) :	370
SERIAL # :	L01CF	PUMP PRESS. (psi):	1,820
DEPTH IN (m RT) :	2126	NOZZ n/32" :	14 14 14
DEPTH OUT (m RT) :	2471	HHSI (hp/sq in) :	2.16
Calculated over last 24 hrs		Calculated over the bit run	
METRAGE (m) :	180	CUM. METRAGE (m) :	345
ON BOTTOM HRS :	21.0	CUM. ON BOT. HRS :	40.0
ROTATING HRS :	16.0	CUM.ROT. HRS :	31.6
ROP m/h	8.6	ROP m/h	8.6

Mud Data		DAILY COST : 2,946		CUM COST : 76,190	
Chk #28 / TYPE: KCI-PHPA		Chk #29 / TYPE: KCI-PHPA			
Property	Chk28	Chk29	Property	Chk28	Chk29
SAMPLE FROM:	FL	FL	TEMP (Deg C) :	54	58
TIME :	1030	2230	SOLIDS (%vol) :	5.5	5.6
WEIGHT (ppg) :	9.2	9.2	H2O (%vol) :	94.5	94.4
DEPTH m :	2371	2463	OIL (%vol) :	0	0
VIS. (sec/qt):	54	53	SAND (%vol) :	Tr	Tr
PV (cp) :	16	14	MBT (ppb eq.) :	10	10
YP (lb/100sf) :	18	18	PH :	8.5	8.50
GEL10s(lb/100sf) :	3	3	Cl- (ppm) :	16900	16400
GEL10m(lb/100sf) :	8	10	K+ (ppm) :	12300	11000
Fann 3RPM :	3	3	HRD/CA (ppm)	600	580
Fann 6RPM :	3	4	API F. loss :	6.3	6.2

Bit Wear	#	MTGE	HRS	I	O	D	L	B	G	O	R
8RR		345	40.0								

BHA Data : BHA #9				
BHA LENGTH (m) :	292.6	WT BLW JAR(k-lbs):	43	
HRS ON JARS :	185	BHA WT(k-lbs) :	61	
BHA DESCRIPTION :	Bit #8RR, Motor, X/O, 8 1/2" R/Rmr, X/O, Monel DC, X/O, 8 1/2" R/Rmr, 16 x 6 1/2" D/C, Jars, 2 x 6 1/2" D/C, 10 x HWDP			
	STRING WT(k-lbs) :	160	TRQE MAX (amps) :	90
	PICK UP WT(k-lbs) :	165	TRQE ON (amps) :	80
	SLK OFF WT(k-lbs) :	155	TRQE OFF (amps) :	60

Bulk Stocks on site		DRILL WATER (MT): 0		FUEL (ltr): 21000		CEMENT (sx): 185	
	POT WATER (MT): 0		BARITE (sx) : 1153		GEL (sx): 359		

Survey (last 4 points)		Tool Type :Totco				
MD (m RT)	TVD (m RT)	INCL deg	AZ. deg	V SECT (m)	N/S (m)	E/W (m)
1,929		5.00				
2,080		5.50				
2,180		6.50				
2,346		6.00				

Current Pump Data and Slow Circulating Rate Data									
Pump Data - last 24 hrs						SCR Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow gpm	SPP psi	SPM	SPP psi	DEPTH m RT
1	GD-PZ-8	6.00	65	97.0	370	1820	45	350	2187
2	GD-PZ-8	6.00	65	97.0			55	400	2187

Drills, Permits & Inspections			
DRILL TYPE	TIMING	INSPECTIONS	TIMING
TRIP DRILL	31/1/97	LAST CSG PRESS TEST	23/1/97
FIRE		SAFETY MEETING	28/1/97
PIT DRILL	2/2/97	SAFETY INSPECTION	26/1/97
INCIDENT	1/2/97	DAYS SINCE LAST BOP TES	10
		LAST BOP TEST	23/1/97

Personnel on Site = 32			
NAME	JOB TITLE	COMPANY NAME	#
Alex Bradley	Drilling Supervisor	Cultus	3
Dave Homer	Geologist	ODE	24
		Halliburton	3
		IDFS	1
		Aust DST	1

Casing						
#	TYPE	LENGTH (m)	CSG ID (")	WEIGHT (lb/ft)	GRADE	THREAD

Formation Tops		
FORMATION	TOP m	BIT#
		1RR
		1RR
		1RR
		1RR
Pember	485.00	2RR
Pebble Point	523.00	4
Paratte	543.00	4
Skull Creek/Belfast	625.00	4
Eumeralla	695.00	4
Inter Eumeralla Sand	1,351.00	4
Lower Eumeralla	1,435.00	8

ACTIVITY FOR PERIOD 00:00 HRS TO 24:00 HRS ON2/02/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
I1	PD	DM	00:00	01:30	1.5	2,311	Drill 8 1/2" hole with motor 2291m to 2311m.
I1	PD	RS	01:30	02:00	.5	2,311	Rig service.
I1	PD	DM	02:00	06:00	4.0	2,349	Drill 8 1/2" hole with motor 2311m to 2349m.
I1	PD	DM	06:00	08:00	2.0	2,368	Drill 8 1/2" hole with motor 2349m to 2368m. 10-15k drag on connections.
I1	PD	S	08:00	08:30	.5	2,368	Circulate and survey 6deg at 2346m.
I1	PD	WT	08:30	10:00	1.5	2,368	Make 10 stand wiper trip 10-15K drag.
I1	PD	RW	10:00	10:30	.5	2,368	Wash and ream 2355m to 2368m.
I1	PD	DM	10:30	24:00	13.5	2,471	Drill 8 1/2" hole with motor 2368m to 2471m.

ACTIVITY FOR PERIOD 00:00 HRS TO 06:00 HRS ON3/02/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
I1	PD	DM	00:00	06:00	6.0	2,518	Drill 8 1/2" hole with motor 2471m to 2518m.

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Report Date: 1/02/97

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Basic Data		Well Data			
DRILLING CO. :	O.D.E.	DEPTH m :	2,291.0	HOLE SIZE("):	8.50
RIG :	30	PROGRESS m :	165.0	LAST CSG SIZE("):	9.625
GL ABOVE MSL (m) :	49.0	DAYS FROM SPUD :	14.15	SHOE DEPTH m :	492.80
ELEV RT AGL (m) :	4.6	DAYS +/- CURVE :		LEAK-OFF SG :	1.55
				TOT PERS ON SITE :	32
				AFE COST \$:	1,076,300
				DAILY COST \$:	46,411
				CUM COST \$:	869,923

Gas and General Data		WEATHER : Cool and windy.	
MAX GAS % :	.4	STATUS @ 0600 :	Drill 8 1/2" hole with motor at 2349m.
B/G GAS % :	.1		

Bit Data for Bit # 8RR		IADC # 4 4 7	
BIT SIZE ("):	8.50	AVE WOB (k-lbs) :	35
MANUFACTURER :	HU	AVE RPM :	200
TYPE :	ATMGT180D	FLOW (gpm) :	370
SERIAL # :	L01CF	PUMP PRESS. (psi) :	1,700
DEPTH IN (m RT) :	2126	NOZZ n/32" :	14 14 14
DEPTH OUT (m RT) :	2291	HHSI (hp/sq in) :	2.16
Calculated over last 24 hrs		Calculated over the bit run	
METRAGE (m) :	165	CUM. METRAGE (m) :	165
ON BOTTOM HRS :	19.0	CUM. ON BOT. HRS :	19.0
ROTATING HRS :	15.6	CUM.ROT. HRS :	15.6
ROP m/h :	8.7	ROP m/h :	8.7
Bit Wear			
#	MTGE	HRS	I O D L B G O R
8RR	165	19.0	

Mud Data		DAILY COST : 4,647		CUM COST : 70,298	
Chk #:26 / TYPE: KCI-PHPA		Chk #:27 / TYPE: KCI-PHPA			
Property	Chk26	Chk 27	Property	Chk 26	Chk 27
SAMPLE FROM:	FL	FL	TEMP (Deg C) :	54	55
TIME :	0915	2300	SOLIDS (%vol) :	5.2	5.5
WEIGHT (ppg) :	9.2	9.2	H2O (%vol) :	94.8	94.5
DEPTH m :	2178	2126	OIL (%vol) :	0	0
VIS. (sec/qt):	42	45	SAND(%vol) :	Tr	Tr
PV (cp) :	10	14	MBT (ppb eq.) :	14	10
YP (lb/100sf) :	15	16	PH :	8.7	9.00
GEL10s(lb/100sf) :	6	4	Cl- (ppm) :	15400	17200
GEL10m(lb/100sf) :	13	8	K+ (ppm) :	10500	12000
Fann 3RPM :	6	4	HRD/CA (ppm)	700	680
Fann 6RPM :	8	6	API F. loss :	7.6	6.6

BHA Data : BHA # 9					
BHA LENGTH (m) :	292.6	WT BLW JAR(k-lbs):	43	STRING WT(k-lbs) :	160
HRS ON JARS :	164	BHA WT(k-lbs) :	61	PICK UP WT(k-lbs) :	165
BHA DESCRIPTION :		Bit #8RR, Motor, X/O, 8 1/2" R/Rmr, X/O, Monel DC, X/O, 8 1/2" R/Rmr, 16 x 6 1/2" D/C, Jars, 2 x 6 1/2" D/C, 10 x HWDP		TRQE MAX (amps) : 90	
				TRQE ON (amps) : 80	
				TRQE OFF (amps) : 60	

Bulk Stocks on site	DRILL WATER (MT): 0	FUEL (ltr): 24800	CEMENT (sx): 185
	POT WATER (MT): 0	BARITE (sx) : 1153	GEL (sx): 359

Survey (last 4 points)		Tool Type :S/Shot				
MD (m RT)	TVD (m RT)	INCL deg	AZ. deg	V SECT (m)	N/S (m)	E/W (m)
1,759		2.75				
1,929		5.00				
2,080		5.50				
2,180		6.50				

Current Pump Data and Slow Circulating Rate Data									
Pump Data - last 24 hrs							SCR Data		
#	TYPE	LNR (")	SPM	EFF (%)	Flow gpm	SPP psi	SPM	SPP psi	DEPTH m RT
1	GD-PZ-8	6.00	65	97.0	370	1700	45	350	2187
2	GD-PZ-8	6.00	65	97.0			55	400	2187

Drills, Permits & Inspections			
DRILL TYPE	TIMING	INSPECTIONS	TIMING
TRIP DRILL	31/1/97	LAST CSG PRESS TEST	23/1/97
FIRE		SAFETY MEETING	28/1/97
PIT DRILL	28/1/97	SAFETY INSPECTION	26/1/97
INCIDENT	30/1/97	DAYS SINCE LAST BOP TES	9
		LAST BOP TEST	23/1/97

Personnel on Site = 32			
NAME	JOB TITLE	COMPANY NAME	#
Alex Bradley	Drilling Supervisor	Cultus	3
Dave Horner	Geologist	ODE	24
		Halliburton	3
		IDFS	1
		Aust DST	1

Casing						
#	TYPE	LENGTH (m)	CSG ID (")	WEIGHT (lb/ft)	GRADE	THREAD

Formation Tops		
FORMATION	TOP m	BIT#
		1RR
		1RR
		1RR
		1RR
Pember	485.00	2RR
Pebble Point	523.00	4
Paratte	543.00	4
Skull Creek/Belfast	625.00	4
Eumeralla	695.00	4
Inter Eumeralla Sand	1,351.00	4
Lower Eumeralla	1,435.00	8

ACTIVITY FOR PERIOD 00:00 HRS TO 24:00 HRS ON 1/02/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
I1	PD	TI	00:00	02:30	2.5	2,126	RIH.
I1	TD	RW	02:30	03:30	1.0	2,126	Wash and ream 2062m to 2126m.
I1	PD	DM	03:30	06:00	2.5	2,146	Drill 8 1/2" hole with motor 2126m to 2146m.
I1	PD	DM	06:00	13:00	7.0	2,206	Drill 8 1/2" hole with motor 2146m to 2206m.
I1	PD	S	13:00	14:30	1.5	2,206	Circulate. Run single shot survey on wireline - misrun. Rerun single shot survey - 6.5deg N26E.
I1	PD	DM	14:30	24:00	9.5	2,291	Drill 8 1/2" hole with motor 2206m to 2291m.

ACTIVITY FOR PERIOD 00:00 HRS TO 06:00 HRS ON 2/02/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
I1	PD	DM	00:00	01:30	1.5	2,311	Drill 8 1/2" hole with motor 2291m to 2311m.
I1	PD	RS	01:30	02:00	.5	2,311	Rig service.
I1	PD	DM	02:00	06:00	4.0	2,349	Drill 8 1/2" hole with motor 2311m to 2349m.



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Report Date: 31/01/97

Issue Date : 1/02/97

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Basic Data		Well Data					
DRILLING CO. :	O.D.E.	DEPTH m :	2,128.0	HOLE SIZE("):	8.50	TOT PERS ON SITE :	31
RIG :	30	PROGRESS m :	25.0	LAST CSG SIZE("):	9.625	AFE COST \$:	1,076,300
GL ABOVE MSL (m) :	49.0	DAYS FROM SPUD :	13.15	SHOE DEPTH m :	492.80	DAILY COST \$:	44,444
ELEV RT AGL (m) :	4.8	DAYS +/- CURVE :		LEAK-OFF SG :	1.55	CUM COST \$:	823,512

Gas and General Data		WEATHER :	
MAX GAS % :	.1	Cool and overcast with misty rain.	
B/G GAS % :	.0	STATUS @ 0600 :	Drill 8 1/2" hole with motor at 2146m.

Bit Data for Bit # 8		IADC # 4 4 7	
BIT SIZE ("):	8.50	AVE WOB (k-lbs) :	35
MANUFACTURER :	HU	AVE RPM :	100
TYPE :	ATMG180D	FLOW (gpm) :	417
SERIAL # :	L01CF	PUMP PRESS. (psi):	1,580
DEPTH IN (m RT) :	2101	NOZZ n32" :	13 13 13
DEPTH OUT (m RT) :	2128	HHSI (hp/sq in) :	2.16
Calculated over last 24 hrs		Calculated over the bit run	
METRAGE (m) :	25	CUM. METRAGE (m) :	25
ON BOTTOM HRS :	5.5	CUM. ON BOT. HRS :	5.5
ROTATING HRS :	5.2	CUM.ROT. HRS :	5.2
ROP m/h	4.5	ROP m/h	4.5

Bit Wear	#	MTGE	HRS	I	O	D	L	B	G	O	R
8		25	5.5	1	2	BT	H1	E	I	CT	BHA

Mud Data		DAILY COST : 1,795		CUM COST : 61,004	
Chk #:24 / TYPE: KCI-PHPA		Chk #:25 / TYPE: KCI-PHPA			
Property	Chk24	Chk 25	Property	Chk 24	Chk 25
SAMPLE FROM:	FL	FL	TEMP (Deg C) :	53	55
TIME :	1400	1800	SOLIDS (%vol) :	5.2	5.2
WEIGHT(ppg) :	9.2	9.2	H2O (%vol) :	94.8	94.8
DEPTH m :	2105	2128	OIL (%vol) :	0	0
VIS. (sec/qt):	44	46	SAND(%vol) :	Tr	Tr
PV (cp) :	11	13	MBT (ppb eq.) :	11	10
YP (lb/100sf) :	16	18	PH :	8.5	8.80
GEL10s(lb/100sf) :	6	6	Cl- (ppm) :	15200	15800
GEL10m(lb/100sf) :	11	13	K+ (ppm) :	9000	9900
Fann 3RPM :	6	6	HRD/CA (ppm)	700	780
Fann 6RPM :	7	8	API F. loss :	7.1	6.8

BHA Data : BHA # 8		WT BLW JAR(k-lbs):		STRING WT(k-lbs) :		TRQE MAX (amps) :	
BHA LENGTH (m) :	287.5	42	155	TRQE ON (amps) :	160		
HRS ON JARS :	145	BHA WT(k-lbs) :	60	SLK OFF WT(k-lbs) :	150	TRQE OFF (amps) :	80
BHA DESCRIPTION : Bit #8, NB R/Rmr, X/O, Monel DC, X/O, 8 1/2" R/Rmr, 1 x 6 1/2" DC, 8 1/2" R/Rmr, 15 x 6 1/2" D/C, Jars, 2 x 6 1/2" D/C, 10 x HWDP							

Bulk Stocks on site		DRILL WATER (MT): 0		FUEL (lir): 28850		CEMENT (sx): 185	
		POT WATER (MT): 0		BARITE (sx): 1183		GEL (sx): 359	

Survey (last 4 points)		Tool Type :Totco				
MD (m RT)	TVD (m RT)	INCL deg	AZ. deg	V SECT (m)	N/S (m)	E/W (m)
1,759		2.75				
1,929		5.00				
2,080		5.50				
2,110		8.00				

Current Pump Data and Slow Circulating Rate Data									
Pump Data - last 24 hrs							SCR Data		
#	TYPE	LNR (")	SPM	EFF (%)	Flow gpm	SPP psi	SPM	SPP psi	DEPTH m RT
1	GD-PZ-8	6.00	75	97.0	417	1580	45	320	2036
2	GD-PZ-8	6.00	75	97.0			55	400	2036

Drills, Permits & Inspections			
DRILL TYPE	TIMING	INSPECTIONS	TIMING
TRIP DRILL	31/1/97	LAST CSG PRESS TEST	23/1/97
FIRE		SAFETY MEETING	28/1/97
PIT DRILL	28/1/97	SAFETY INSPECTION	28/1/97
INCIDENT	30/1/97	DAYS SINCE LAST BOP TES	8
		LAST BOP TEST	23/1/97

Personnel on Site = 31			
NAME	JOB TITLE	COMPANY NAME	#
Alex Bradley	Drilling Supervisor	Cultus	3
Dave Horner	Geologist	ODE	23
		Halliburton	3
		IDFS	1
		Aust DST	1

Casing						
#	TYPE	LENGTH (m)	CSG ID (")	WEIGHT (lb/ft)	GRADE	THREAD

Formation Tops		
FORMATION	TOP m	BIT#
		1RR
		1RR
		1RR
		1RR
Pember	485.00	2RR
Pebble Point	523.00	4
Paratte	543.00	4
Skull Creek/Belfast	625.00	4
Eumeralla	695.00	4
Inter Eumeralla Sand	1,351.00	4
Lower Eumeralla	1,435.00	8

ACTIVITY FOR PERIOD 00:00 HRS TO 24:00 HRS ON 31/01/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
I1	TD	TO	00:00	02:00	2.0	2,101	POOH. Check drill string for bent pipe or swelled boxes.
I1	TD	TO	02:00	04:30	2.5	2,101	POOH with BHA. Break and service all connections.
I1	TD	HT	04:30	05:00	.5	2,101	Break out and lay down motor. Unable to rotate motor at surface.
I1	TD	HT	05:00	05:30	.5	2,101	Pick up kelly and check rollers.
I1	TD	HT	05:30	06:00	.5	2,101	Make up new BHA. Pick up Monel DC and HTC ATMGT18OD bit.
I1	TD	TI	06:00	07:30	1.5	2,101	RIH with BHA.
I1	TD	HT	07:30	09:00	1.5	2,101	Break and service upper kelly connections.
I1	TD	TI	09:00	12:00	3.0	2,101	RIH to 2098m. Wash and ream 2098m to 2101m.
I1	PD	DM	12:00	17:30	5.5	2,126	Drill 8 1/2" hole 2101m to 2126m.
I1	PD	S	17:30	18:00	.5	2,126	Drop survey. Pump slug.
I1	PD	TO	18:00	21:30	3.5	2,126	POOH.
I1	PD	HT	21:30	22:30	1.0	2,126	Make up new BHA. Test motor.
I1	PD	TI	22:30	24:00	1.5	2,126	RIH.

ACTIVITY FOR PERIOD 00:00 HRS TO 06:00 HRS ON 1/02/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
I1	PD	TI	00:00	02:30	2.5	2,126	RIH.
I1	TD	RW	02:30	03:30	1.0	2,126	Wash and ream 2062m to 2126m.
I1	PD	DM	03:30	06:00	2.5	2,146	Drill 8 1/2" hole with motor 2126m to 2146m.

Basic Data		Well Data					
DRILLING CO. :	O.D.E.	DEPTH m :	2,101.0	HOLE SIZE("):	8.50	TOT PERS ON SITE :	32
RIG :	30	PROGRESS m :	150.0	LAST CSG SIZE("):	9.625	APE COST \$:	1,076,300
GL ABOVE MSL (m) :	49.0	DAYS FROM SPUD :	12.15	SHOE DEPTH m :	492.80	DAILY COST \$:	43,452
ELEV RT AGL (m) :	4.6	DAYS +/- CURVE :		LEAK-OFF SG :	1.55	CUM COST \$:	779,068

Gas and General Data		WEATHER :	
MAX GAS % :	.4	Cool and misty.	
B/G GAS % :	.1	STATUS @ 0600 :	Make up new BHA and RIH.

Bit Data for Bit #7		IADC #4 4 7	
BIT SIZE ("):	8.50	AVE WOB (k-lbs) :	35
MANUFACTURER :	SM	AVE RPM :	200
TYPE :	MF150D	FLOW (gpm) :	370
SERIAL # :	LG1850	PUMP PRESS. (psi):	1,650
DEPTH IN (m RT) :	1951	NOZZ n/32" :	14 14 14
DEPTH OUT (m RT) :	2101	HHSI (hp/sq in) :	2.16
Calculated over last 24 hrs		Calculated over the bit run	
METRAGE (m) :	150	CUM. METRAGE (m) :	150
ON BOTTOM HRS :	18.5	CUM. ON BOT. HRS :	18.5
ROTATING HRS :		CUM.ROT. HRS :	
ROP m/h	8.1	ROP m/h	8.1

Bit Wear	#	MTGE	HRS	I	O	D	L	B	G	O	R
7		150	18.5	2	2	E	A	N	I	JD	DSF

Mud Data		DAILY COST : 3,198		CUM COST : 57,414	
Chk #22 / TYPE: KCI-PHPA		Chk #23 / TYPE: KCI-PHPA			
Property	Chk22	Chk 23	Property	Chk 22	Chk 23
SAMPLE FROM:	F/L	Pit	TEMP (Deg C)	54	0
TIME :	0930	2130	SOLIDS (%vol) :	4.7	4.8
WEIGHT(ppg) :	9.1	9.1	H2O (%vol) :	95.3	95.2
DEPTH m :	2010	2101	OIL (%vol) :	0	0
VIS. (sec/qt):	47	44	SAND(%vol) :	Tr	Tr
PV (cp) :	12	12	MBT (ppb eq.) :	8	6
YP (lb/100sf) :	16	17	PH :	8.8	8.50
GEL10s(lb/100sf) :	7	5	Cl- (ppm) :	17300	15300
GEL10m(lb/100sf) :	15	11	K+ (ppm) :	12700	11000
Fann 3RPM :	7	5	HRD/CA (ppm)	760	720
Fann 6RPM :	10	7	API F. loss :	6.7	6.5

BHA Data : BHA #7							
BHA LENGTH (m) :	281.8	WT BLW JAR(k-lbs):	39	STRING WT(k-lbs) :	150	TRQE MAX (amps) :	90
HRS ON JARS :	139	BHA WT(k-lbs) :	50	PICK UP WT(k-lbs) :	152	TRQE ON (amps) :	90
BHA DESCRIPTION :	Bit #7, 6 1/2" Motor, X/O, 8 1/2" R/Rmr, 1 x 6 1/2" DC, 8 1/2" R/Rmr, 15 x 6 1/2" D/C, Jars, 2 x 6 1/2" D/C, 10 x HWDP			SLK OFF WT(k-lbs) :	145	TRQE OFF (amps) :	60

Bulk Stocks on site		DRILL WATER (MT): 0		FUEL (ltr): 32300		CEMENT (sx): 185	
		POT WATER (MT): 0		BARITE (sx) : 1243		GEL (sx) : 359	

Survey (last 4 points)		Tool Type :Totco				
MD (m RT)	TVD (m RT)	INCL deg	AZ. deg	1/2 SECT (m)	N/S (m)	E/W (m)
1,460		2.00				
1,759		2.75				
1,929		5.00				
2,080		5.50				

Current Pump Data and Slow Circulating Rate Data									
Pump Data - last 24 hrs						SCR Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow gpm	SPP psi	SPM	SPP psi	DEPTH m RT
1	GD-PZ-8	6.00	70	97.0	370	1650	45	320	2036
2	GD-PZ-8	6.00	70	97.0			55	400	2036

Drills, Permits & Inspections			
DRILL TYPE	TIMING	INSPECTIONS	TIMING
TRIP DRILL	26/1/97	LAST CSG PRESS TEST	23/1/97
FIRE		SAFETY MEETING	28/1/97
PIT DRILL	25/1/97	SAFETY INSPECTION	26/1/97
INCIDENT	30/1/97	DAYS SINCE LAST BOP TES	7
		LAST BOP TEST	23/1/97

Personnel on Site =32			
NAME	JOB TITLE	COMPANY NAME	#
Alex Bradley	Drilling Supervisor	Cultus	3
Dave Horner	Geologist	ODE	24
		Halliburton	3
		IDFS	1
		Aust DST	1

Casing						
#	TYPE	LENGTH (m)	CSG ID (")	WEIGHT (lb/ft)	GRADE	THREAD

Formation Tops		
FORMATION	TOP m	BIT#
		1RR
		1RR
		1RR
		1RR
Pember	485.00	2RR
Pebble Point	523.00	4
Paratte	543.00	4
Skull Creek/Belfast	625.00	4
Eumeralla	695.00	4
Inter Eumeralla Sand	1,351.00	4
Lower Eumeralla	1,435.00	7

ACTIVITY FOR PERIOD 00:00 HRS TO 24:00 HRS ON30/01/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
11	PD	RW	00:00	01:00	1.0	1,951	Wash and ream 1919m to 1951m.
11	PD	DM	01:00	06:00	5.0	1,979	Drill 8 1/2" hole with motor 1951m to 1979m
11	PD	DM	06:00	19:30	13.5	2,101	Drill 8 1/2" hole with motor 1979m to 2101m
11	TD	RR	19:30	20:30	1.0	2,101	Brakes failed on connection. Kelly dropped into bushings and hook unlatched. Latch kelly and pick up string weight with zero drag and full weight.
11	TD	SC	20:30	21:30	1.0	2,101	Slip and cut drilling line.
11	TD	S	21:30	22:00	.5	2,101	Drop survey. Pump slug.
11	TD	TO	22:00	24:00	2.0	2,101	POOH. Check drill string for bent pipe or swelled boxes.

ACTIVITY FOR PERIOD 00:00 HRS TO 06:00 HRS ON31/01/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
11	TD	TO	00:00	02:00	2.0	2,101	POOH. Check drill string for bent pipe or swelled boxes.
11	TD	TO	02:00	04:30	2.5	2,101	POOH with BHA. Break and service all connections.
11	TD	HT	04:30	05:00	.5	2,101	Break out and lay down motor. Unable to rotate motor at surface.
11	TD	HT	05:00	05:30	.5	2,101	Pick up kelly and check rollers.
11	TD	HT	05:30	06:00	.5	2,101	Make up new BHA. Pick up Monel DC and HTC ATMGT18OD bit.

Cultus Petroleum NL

DAILY DRILLING REPORT

Taralea #1

REPORT# :12

Report Date: 29/01/97

Issue Date :30/01/97

Page Number : 1

Basic Data		Well Data					
DRILLING CO. :	O.D.E.	DEPTH m :	1,951.0	HOLE SIZE("):	8.50	TOT PERS ON SITE :	30
RIG :	30	PROGRESS m :	93.0	LAST CSG SIZE("):	9.625	APE COST \$:	1,076,300
GL ABOVE MSL (m) :	49.0	DAYS FROM SPUD :	11.15	SHOE DEPTH m :	492.80	DAILY COST \$:	49,303
ELEV RT AGL (m) :	4.6	DAYS +/- CURVE :		LEAK-OFF SG :	1.55	CUM COST \$:	735,616

Gas and General Data		WEATHER :	
MAX GAS % :	.1	Cool and overcast.	
B/G GAS % :	.0	STATUS @ 0600 :	Drill 8 1/2" hole with motor at 1979m.

Bit Data for Bit #7		IADC #4 4 7												
BIT SIZE ("):	8.50	AVE WOB (k-lbs) :												
MANUFACTURER :	SM	AVE RPM :												
TYPE :	MF150D	FLOW (gpm) :												
SERIAL # :	LG1850	PUMP PRESS. (psi) :												
DEPTH IN (m RT) :	1951	NOZZ n/32" : 14 14 14												
DEPTH OUT (m RT) :		HHSI (hp/sq in) :												
Calculated over last 24 hrs					Calculated over the bit run									
METRAGE (m) :					CUM. METRAGE (m) :									
ON BOTTOM HRS :					CUM. ON BOT. HRS :									
ROTATING HRS :					CUM.ROT. HRS :									
ROP m/h					ROP m/h									
Bit Wear	#	MTGE	HRS	I	O	D	L	B	G	O	R			
6		483	53.5	2	4	C	C3	F	1	BT	HR			
7														

Mud Data		DAILY COST : 1,783		CUM COST : 51,018	
Chk #20 / TYPE: KCI-PHPA		Chk #21 / TYPE: KCI-PHPA			
Property	Chk20	Chk21	Property	Chk20	Chk21
SAMPLE FROM:	FL	PR	TEMP (Deg C) :	54	57
TIME :	1000	2230	SOLIDS (%vol) :	4.7	4.8
WEIGHT(ppg) :	9.1	9.1	H2O (%vol) :	95.2	95.2
DEPTH m :	1951	1951	OIL (%vol) :	0	0
VIS. (sec/qt):	52	57	SAND(%vol) :	Tr	Tr
PV (cp) :	13	13	MBT (ppb eq.) :	8	7
YP (lb/100sf) :	24	22	PH :	8.7	8.80
GEL10s(lb/100sf) :	10	11	Cl- (ppm) :	16400	15700
GEL10m(lb/100sf) :	20	19	K+ (ppm) :	12200	11900
Fann 3RPM :	10	11	HRD/CA (ppm)	800	760
Fann 6RPM :	12	12	API F. loss :	6.6	6.8

BHA Data : BHA #7		WT BLW JAR(k-lbs):		STRING WT(k-lbs) :		TRQE MAX (amps) :	
BHA LENGTH (m) :	281.8	39		145		90	
HRS ON JARS :	120	50		147		90	
BHA DESCRIPTION :	Bit #7, 6 1/2" Motor, X/O, 8 1/2" R/Rmr, 1 x 6 1/2" DC, 8 1/2" R/Rmr, 15 x 6 1/2" D/C, Jars, 2 x 6 1/2" D/C, 10 x HWDP						
				SLK OFF WT(k-lbs) :		TRQE OFF (amps) :	
				140		60	

Bulk Stocks on site		DRILL WATER (MT): 0		FUEL (ltr): 11150		CEMENT (sx): 185	
		POT WATER (MT): 0		BARITE (sx): 1243		GEL (sx): 359	

Survey (last 4 points)		Tool Type :Totco				
MD (m RT)	TVD (m RT)	INCL deg	AZ. deg	V SECT (m)	N/S (m)	E/W (m)
1,300		1.25				
1,460		2.00				
1,759		2.75				
1,929		5.00				

Pump Data - last 24 hrs							SCR Data		
#	TYPE	LNK (")	SPM	EFF (%)	Flow gpm	SPP psi	SPM	SPP psi	DEPTH m RT
1	GD-PZ-8	6.00	70	97.0	400	1820	45	380	1827
2	GD-PZ-8	6.00	70	97.0			55	480	1827

Drills, Permits & Inspections			
DRILL TYPE	TIMING	INSPECTIONS	TIMING
TRIP DRILL	26/1/97	LAST CSG PRESS TEST	23/1/97
FIRE		SAFETY MEETING	28/1/97
PIT DRILL	25/1/97	SAFETY INSPECTION	26/1/97
INCIDENT	22/1/97	DAYS SINCE LAST BOP TES	6
		LAST BOP TEST	23/1/97

Personnel on Site = 30			
NAME	JOB TITLE	COMPANY NAME	#
Dave Horner	Geologist	ODE	22
		Halliburton	3
		IDFS	1
		Aust DST	1
Alex Bradley	Drilling Supervisor	Cultus	3

Casing						
#	TYPE	LENGTH (m)	CSG ID (")	WEIGHT (lb/ft)	GRADE	THREAD

Formation Tops		
FORMATION	TOP m	BIT#
		1RR
		1RR
		1RR
		1RR
Pember	485.00	2RR
Pebble Point	523.00	4
Paratte	543.00	4
Skull Creek/Belfast	625.00	4
Eumeralla	695.00	4
Inter Eumeralla Sand	1,351.00	4
Lower Eumeralla	1,435.00	7

ACTIVITY FOR PERIOD 00:00 HRS TO 24:00 HRS ON29/01/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
I1	PD	DM	00:00	06:00	6.0	1,904	Drill 8 1/2" hole with motor 1858m to 1904m
I1	PD	CIR	06:00	06:30	.5	1,904	Circulate bottoms up.
I1	PD	WT	06:30	07:30	1.0	1,904	Make 10 stand wiper trip - no drag.
I1	PD	DM	07:30	14:00	6.5	1,951	Drill 8 1/2" hole with motor 1904m to 1951m
I1	PD	CIR	14:00	15:00	1.0	1,951	Circulate bottoms up.
I1	PD	TO	15:00	19:30	4.5	1,951	POOH. Tight from 1421m to 1369m (15-20K).
I1	PD	HT	19:30	20:30	1.0	1,951	Gauge R/Reamers 1/16" under gauge. Change bit. Test motor.
I1	PD	TI	20:30	24:00	3.5	1,951	RIH to 1919m - 20k drag at 1919m.

ACTIVITY FOR PERIOD 00:00 HRS TO 06:00 HRS ON30/01/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
I1	PD	RW	00:00	01:00	1.0	1,951	Wash and ream 1919m to 1951m.
I1	PD	DM	01:00	06:00	5.0	1,979	Drill 8 1/2" hole with motor 1951m to 1979m

Basic Data		Well Data					
DRILLING CO. :	O.D.E.	DEPTH m :	1,858.0	HOLE SIZE("):	8.50	TOT PERS ON SITE :	30
RIG :	30	PROGRESS m :	181.0	LAST CSG SIZE("):	9.625	AFE COST \$:	1,076,300
GL ABOVE MSL (m) :	49.0	DAYS FROM SPUD :	10.15	SHOE DEPTH m :	492.80	DAILY COST \$:	39,764
ELEV RT AGL (m) :	4.6	DAYS +/- CURVE :		LEAK-OFF SG :	1.55	CUM COST \$:	686,313

Gas and General Data		WEATHER :	
MAX GAS % :	.1	Cool and misty rain.	
B/G GAS % :	.0	STATUS @ 0600 :	Circulate bottoms up for wiper trip at 1904m.

Bit Data for Bit # 6		IADC # 4 2 7	
BIT SIZE ("):	8.50	AVE WOB (k-lbs) :	28
MANUFACTURER :	SM	AVE RPM :	210
TYPE :	MF05C	FLOW (gpm) :	400
SERIAL # :	LF3389	PUMP PRESS. (psi):	1,820
DEPTH IN (m RT) :	1468	NOZZ n/32" :	16 13 13
DEPTH OUT (m RT) :	1858	HHSI (hp/sq in) :	2.70
Calculated over last 24 hrs		Calculated over the bit run	
METRAGE (m) :	181	CUM. METRAGE (m) :	390
ON BOTTOM HRS :	21.0	CUM. ON BOT. HRS :	41.0
ROTATING HRS :		CUM.ROT. HRS :	
ROP m/h	8.6	ROP m/h	9.5

Bit Wear	#	MTGE	HRS	I	O	D	L	B	G	O	R
	6	390	41.0								

Mud Data		DAILY COST : 3,785		CUM COST : 47,452	
Chk #:18 / TYPE: KCl-PHPA		Chk #:19 / TYPE: KCl-PHPA			
Property	Chk18	Chk 19	Property	Chk 18	Chk 19
SAMPLE FROM:	FL	FL	TEMP (Deg C) :	49	52
TIME :	1030	2230	SOLIDS (%vol) :	5.0	4.9
WEIGHT(ppg) :	9.1	9.1	H2O (%vol) :	95.0	95.1
DEPTH m :	1742	1850	OIL (%vol) :	0	0
VIS. (sec/qt):	52	55	SAND(%vol) :	Tr	Tr
PV (cp) :	15	14	MBT (ppb eq.) :	9	7
YP (lb/100sf) :	23	21	PH :	8.7	8.80
GEL10s(lb/100sf) :	7	7	Cl- (ppm) :	12100	14300
GEL10m(lb/100sf) :	20	14	K+ (ppm) :	9900	11800
Fann 3RPM :	7	7	HRD/CA (ppm)	720	760
Fann 6RPM :	6	9	API F. loss :	5.8	6.4

BHA Data : BHA #6		WT BLW JAR(k-lbs):		STRING WT(k-lbs) :		TRQE MAX (amps) :	
BHA LENGTH (m) :	281.8	39		140		90	
HRS ON JARS :	105	BHA WT(k-lbs) :	50	PICK UP WT(k-lbs) :	140	TRQE ON (amps) :	80
BHA DESCRIPTION :	Bit #6, 6 1/2" Motor, X/O, 8 1/2" R/Rmr, 1 x 6 1/2" DC, 8 1/2" R/Rmr, 15 x 6 1/2" D/C, Jars, 2 x 6 1/2" D/C, 10 x HWDP						
				SLK OFF WT(k-lbs) :	135	TRQE OFF (amps) :	60

Bulk Stocks on site		DRILL WATER (MT): 0		FUEL (ltr): 16000		CEMENT (sx): 185	
		POT WATER (MT): 0		BARITE (sx) :	1243	GEL (sx) :	359

Survey (last 4 points)		Tool Type :Totco				
MD (m RT)	TVD (m RT)	INCL deg	AZ. deg	V SECT (m)	N/S (m)	E/W (m)
998		0.50				
1,300		1.25				
1,460		2.00				
1,759		2.75				

Current Pump Data and Slow Circulating Rate Data									
Pump Data - last 24 hrs							SCR Data		
#	TYPE	LNR (")	SPM	EFF (%)	Flow gpm	SPP psi	SPM	SPP psi	DEPTH m RT
1	GD-PZ-8	6.00	70	97.0	400	1820	45	380	1827
2	GD-PZ-8	6.00	70	97.0			55	480	1827

Drills, Permits & Inspections			
DRILL TYPE	TIMING	INSPECTIONS	TIMING
TRIP DRILL	26/1/97	LAST CSG PRESS TEST	23/1/97
FIRE		SAFETY MEETING	28/1/97
PIT DRILL	25/1/97	SAFETY INSPECTION	26/1/97
INCIDENT	22/1/97	DAYS SINCE LAST BOP TES	5
		LAST BOP TEST	23/1/97

Personnel on Site = 30			
NAME	JOB TITLE	COMPANY NAME	#
Alex Bradley	Drilling Supervisor	Cultus	3
Dave Homer	Geologist	ODE	22
		Halliburton	3
		IDFS	1
		Aust DST	1

Casing						
#	TYPE	LENGTH (m)	CSG ID (")	WEIGHT (lb/ft)	GRADE	THREAD

Formation Tops		
FORMATION	TOP m	BIT#
Port Campbell Limestone	40.00	1RR
Gellibrand Marl	133.00	1RR
Clifton	376.00	1RR
Dilwyn	401.00	1RR
Pember	485.00	2RR
Pebble Point	523.00	4
Paratte	543.00	4
Skull Creek/Belfast	625.00	4
Eumeralla	695.00	4
Inter Eumeralla Sand	1,351.00	4
Lower Eumeralla	1,435.00	6

ACTIVITY FOR PERIOD 00:00 HRS TO 24:00 HRS ON28/01/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
I1	PD	DM	00:00	03:00	3.0	1,704	Drill 8 1/2" hole with motor 1677m to 1704m
I1	PD	CIR	03:00	03:30	.5	1,704	Circulate bottoms up.
I1	PD	WT	03:30	04:00	.5	1,704	POOH for 10 stand wiper trip. Drag 5-10K with tight spots at 1551-1545(20K), 1523-1520(20K), 1494-1487(20K), 1438-1429(25K), 1410-1412(30K).
I1	PD	WT	04:00	05:00	1.0	1,704	RIH with 5K drag.
I1	PD	RS	05:00	05:30	.5	1,704	Rig service.
I1	PD	DM	05:30	06:00	.5	1,709	Drill 8 1/2" hole with motor 1704m to 1709m
I1	PD	DM	06:00	10:00	4.0	1,740	Drill 8 1/2" hole with motor 1709m to 1740m
I1	PD	DM	10:00	10:30	.5	1,742	Attempt to increase circulation rate to 450gpm. Blew pop-off valves on pumps. Drill with 360gpm 1740m to 1742m.
I1	PD	DM	10:30	15:00	4.5	1,780	Drill 8 1/2" hole with motor 1742m to 1780m
I1	PD	S	15:00	15:30	.5	1,780	Circulate and survey. 2.75deg at 1759m.
I1	PD	DM	15:30	24:00	8.5	1,858	Drill 8 1/2" hole with motor 1780m to 1858m

ACTIVITY FOR PERIOD 00:00 HRS TO 06:00 HRS ON29/01/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
I1	PD	DM	00:00	06:00	6.0	1,904	Drill 8 1/2" hole with motor 1858m to 1904m

BR

Cultus Petroleum NL

DAILY DRILLING REPORT

Taralea #1

REPORT# :10

Report Date: 27/01/97

Issue Date : 28/01/97

Page Number : 1

Basic Data		Well Data					
DRILLING CO. :	O.D.E.	DEPTH m :	1,677.0	HOLE SIZE("):	8.50	TOT PERS ON SITE :	29
RIG :	30	PROGRESS m :	209.0	LAST CSG SIZE("):	9.625	AFE COST \$:	
GL ABOVE MSL (m) :	49.0	DAYS FROM SPUD :	9.15	SHOE DEPTH m :	492.80	DAILY COST \$:	49,313
ELEV RT AGL (m) :	4.6	DAYS +/- CURVE :		LEAK-OFF SG :	1.55	CUM COST \$:	646,549

Gas and General Data		WEATHER :	
MAX GAS % :	.1	Cool and overcast	
B/G GAS % :	.0	STATUS @ 0600 :	Drill 8 1/2" hole with motor at 1709m

Bit Data for Bit #6		IADC #4 1 7	
BIT SIZE ("):	8.50	AVE WOB (k-lbs) :	25
MANUFACTURER :	SM	AVE RPM :	210
TYPE :	MF05C	FLOW (gpm) :	400
SERIAL # :	LF3389	PUMP PRESS. (psi):	1,770
DEPTH IN (m RT) :	1468	NOZZ n/32" :	16 13 13
DEPTH OUT (m RT) :	1677	HHSI (hp/sq in) :	2.70
Calculated over last 24 hrs		Calculated over the bit run	
METRAGE (m) :	209	CUM. METRAGE (m) :	209
ON BOTTOM HRS :	20.0	CUM. ON BOT. HRS :	20.0
ROTATING HRS :		CUM.ROT. HRS :	
ROP m/h	10.4	ROP m/h	10.4

Mud Data		DAILY COST : 3,763		CUM COST : 39,882	
Chk #:16 / TYPE: KCl-PHPA		Chk #:17 / TYPE: KCl-PHPA			
Property	Chk16	Chk17	Property	Chk16	Chk17
SAMPLE FROM:	FL	FL	TEMP (Deg C) :	48	49
TIME :	1030	2230	SOLIDS (%vol) :	5.7	4.6
WEIGHT(ppg) :	9.2	9.1	H2O (%vol) :	94.3	95.4
DEPTH m :	1524	1663	OIL (%vol) :	0	0
VIS. (sec/qt):	65	57	SAND(%vol) :	.13	Tr
PV (cp) :	15	14	MBT (ppb eq.) :	12	8
YP (lb/100sf) :	33	20	PH :	9.0	8.80
GEL10s(lb/100sf) :	16	5	Cl- (ppm) :	13600	12600
GEL10m(lb/100sf) :	23	13	K+ (ppm) :	9800	11300
Fann 3RPM :	19	7	HRD/CA (ppm)	620	700
Fann 6RPM :	28	13	API F. loss :	5.6	5.3

Bit Wear	#	MTGE	HRS	I	O	D	L	B	G	O	R
	6	209	20.0								

BHA Data : BHA #6		WT BLW JAR(k-lbs):		STRING WT(k-lbs) :		TRQE MAX (amps) :	
BHA LENGTH (m) :	281.8	39	50	120	125	80	80
HRS ON JARS :	84			115		80	80
BHA DESCRIPTION :	Bit #6, 6 1/2" Motor, X/O, 8 1/2" R/Rmr, 1 x 6 1/2" DC, 8 1/2" R/Rmr, 15 x 6 1/2" D/C, Jars, 2 x 6 1/2" D/C, 10 x HWDP						

Bulk Stocks on site		DRILL WATER (MT): 0		FUEL (ltr): 20850		CEMENT (sx): 185	
		POT WATER (MT): 0		BARITE (sx) : 1243		GEL (sx): 359	

Survey (last 4 points)		Tool Type :Totco				
MD (m RT)	TVD (m RT)	INCL deg	AZ deg	V SECT (m)	N/S (m)	E/W (m)
694		1.00				
998		0.50				
1,300		1.25				
1,460		2.00				

Current Pump Data and Slow Circulating Rate Data									
Pump Data - last 24 hrs						SCR Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow gpm	SPP psi	SPM	SPP psi	DEPTH m RT
1	GD-PZ-8	6.00	70	97.0	400	1770	45	360	1561
2	GD-PZ-8	6.00	70	97.0			55	460	1561

Personnel on Site =29			
NAME	JOB TITLE	COMPANY NAME	#
Alex Bradley	Drilling Supervisor	Cultus	3
Dave Horner	Geologist	ODE	21
		Halliburton	3
		IDFS	1
		Aust DST	1

Drills, Permits & Inspections			
DRILL TYPE	TIMING	INSPECTIONS	TIMING
TRIP DRILL	26/1/97	LAST CSG PRESS TEST	23/1/97
FIRE		SAFETY MEETING	26/1/97
PIT DRILL	25/1/97	SAFETY INSPECTION	26/1/97
INCIDENT	22/1/97	DAYS SINCE LAST BOP TES	4
		LAST BOP TEST	23/1/97

Casing						
#	TYPE	LENGTH (m)	CSG ID (")	WEIGHT (lb/ft)	GRADE	THREAD

Formation Tops		
FORMATION	TOP m	BIT#
Port Campbell Limestone	40.00	1RR
Gellibrand Marl	133.00	1RR
Clifton	376.00	1RR
Dilwyn	401.00	1RR
Pember	485.00	2RR
Pebble Point	523.00	4
Paratte	543.00	4
Skull Creek/Belfast	625.00	4
Eumeralla	695.00	4
Inter Eumeralla Sand	1,351.00	4
Lower Eumeralla	1,435.00	4

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Report Date: 27/01/97

Issue Date : 28/01/97

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ACTIVITY FOR PERIOD 00:00 HRS TO 24:00 HRS ON27/01/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
I1	PD	TI	00:00	00:30	.5	1,468	Continue to RIH with BHA. Pick up 6 x HWDP.
I1	PD	TI	00:30	03:00	2.5	1,468	RIIH to 1454m.
I1	PD	RW	03:00	03:30	.5	1,468	Wash and ream 1454m to 1468m. 3m of fill.
I1	PD	DM	03:30	06:00	2.5	1,490	Drill 8 1/2" hole with motor 1468m to 1490m
I1	PD	DM	06:00	07:00	1.0	1,500	Drill 8 1/2" hole with motor 1490m to 1500m
I1	PD	DM	07:00	10:00	3.0	1,524	Drill 8 1/2" hole with motor 1500m to 1524m
I1	PD	RS	10:00	10:30	.5	1,524	Rig service.
I1	PD	DM	10:30	24:00	13.5	1,677	Drill 8 1/2" hole with motor 1524m to 1677m

ACTIVITY FOR PERIOD 00:00 HRS TO 06:00 HRS ON28/01/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
I1	PD	DM	00:00	03:00	3.0	1,704	Drill 8 1/2" hole with motor 1677m to 1704m
I1	PD	CIR	03:00	03:30	.5	1,704	Circulate bottoms up.
I1	PD	WT	03:30	04:00	.5	1,704	POOH for 10 stand wiper trip. Drag 5-10K with tight spots at 1551-1545(20K), 1523-1520(20K), 1494-1487(20K), 1438-1429(25K), 1410-1412(30K).
I1	PD	WT	04:00	05:00	1.0	1,704	RIH with 5K drag.
I1	PD	RS	05:00	05:30	.5	1,704	Rig service.
I1	PD	DM	05:30	06:00	.5	1,709	Drill 8 1/2" hole with motor 1704m to 1709m

REPORT# : 9

Report Date: 26/01/97

Issue Date : 28/01/97

Page Number : 1

Basic Data		Well Data					
DRILLING CO. :	O.D.E.	DEPTH m :	1,468.0	HOLE SIZE("):	8.50	TOT PERS ON SITE :	29
RIG :	30	PROGRESS m :	6.0	LAST CSG SIZE("):	9.625	AFE COST \$:	
GL ABOVE MSL (m) :	49.0	DAYS FROM SPUD :	8.15	SHOE DEPTH m :	492.80	DAILY COST \$:	38,458
ELEV RT AGL (m) :	4.6	DAYS +/- CURVE :		LEAK-OFF SG :	1.55	CUM COST \$:	646,549

Gas and General Data		WEATHER :	
MAX GAS % :	.1	Wet and windy	
B/G GAS % :	.1	STATUS @ 0600 :	Drill 8 1/2" hole with motor at 1490m

Bit Data for Bit #5RR		IADC # 1 3 5	
BIT SIZE ("):	8.50	AVE WOB (k-lbs) :	25
MANUFACTURER :	SM	AVE RPM :	90
TYPE :	SDGH	FLOW (gpm) :	410
SERIAL # :	LC5030	PUMP PRESS. (psi):	1,050
DEPTH IN (m RT) :	1462	NOZZ n/32" :	16 13 13
DEPTH OUT (m RT) :	1468	HHSI (hp/sq in) :	2.60
Calculated over last 24 hrs		Calculated over the bit run	
METRAGE (m) :	6	CUM. METRAGE (m) :	6
ON BOTTOM HRS :	1.5	CUM. ON BOT. HRS :	1.5
ROTATING HRS :		CUM. ROT. HRS :	
ROP m/h	4.0	ROP m/h	4.0

Bit Wear	#	MTGE	HRS	I	O	D	L	B	G	O	R
4	5RR	1,353	62.0	8	8	BT	A	N	2	LT	PR
		6	1.5	2	3	B	A	E	I	JD	PR

Mud Data DAILY COST : 2,593					
Chk #15 / TYPE: KCl-PHPA			Chk #0 / TYPE :		
Property	Chk15	Chk 0	Property	Chk 15	Chk 0
SAMPLE FROM:	FL		TEMP (Deg C)	47	0
TIME :	1730		SOLIDS (%vol)	6.5	
WEIGHT(ppg) :	9.3	0.0	H2O (%vol) :	93.5	0.0
DEPTH m :	1468	0	OIL (%vol) :	0	0
VIS. (sec/qt):	63	0	SAND(%vol) :	.25	
PV (cp) :	16	0	MBT (ppb eq.) :	10	0
YP (lb/100sf) :	24	0	PH :	8.8	0.00
GEL10s(lb/100sf) :	9	0	Cl- (ppm) :	12600	0
GEL10m(lb/100sf) :	21	0	K+ (ppm) :	11000	0
Fann 3RPM :	15	0	HRD/CA (ppm)	620	0
Fann 6RPM :	23	0	API F. loss :	6.0	0.0

BHA Data : BHA #65			
BHA LENGTH (m) :	281.8	WT BLW JAR(k-lbs):	39
HRS ON JARS :	64	BHA WT(k-lbs) :	50
BHA DESCRIPTION :	Bit #6, 6 1/2" Motor, X/O, 8 1/2" R/Rmr, 1 x 6 1/2" DC, 8 1/2" R/Rmr, 15 x 6 1/2" D/C, Jars, 2 x 6 1/2" D/C, 10 x HWDP		
		STRING WT(k-lbs) :	120
		PICK UP WT(k-lbs) :	125
		SLK OFF WT(k-lbs) :	115
		TRQE MAX (amps) :	80
		TRQE ON (amps) :	80
		TRQE OFF (amps) :	80

Bulk Stocks on site			
DRILL WATER (MT):	0	FUEL (ltr):	24500
POT WATER (MT):	0	BARITE (sx) :	1243
		CEMENT (sx):	185
		GEL (sx):	359

Survey (last 4 points) Tool Type :Totco						
MD (m RT)	TVD (m RT)	INCL deg	AZ. deg	V SECT (m)	N/S (m)	E/W (m)
694		1.00				
998		0.50				
1,300		1.25				
1,460		2.00				

Formation Tops		
FORMATION	TOP m	BIT#
Port Campbell Limestone	40.00	1RR
Gellibrand Marl	133.00	1RR
Clifton	376.00	1RR
Dilwyn	401.00	1RR
Pember	485.00	2RR
Pebble Point	523.00	4
Paratte	543.00	4
Skuil Creek/Belfast	625.00	4
Eumeralla	695.00	4
Inter Eumeralla Sand	1,351.00	4
Lower Eumeralla	1,435.00	4

Casing						
#	TYPE	LENGTH (m)	CSG ID (")	WEIGHT (lb/ft)	GRADE	THREAD

REPORT# :9

Report Date: 26/01/97

Issue Date : 28/01/97

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ACTIVITY FOR PERIOD 00:00 HRS TO 24:00 HRS ON 26/01/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
I1	PD	TOT	00:00	01:00	1.0	1,462	Continue to POOH to shoe. Up to 25K drag at 1049-1044m, 1018-1011m, 1005m, 998-983m, 970-960m. Work through tight spots to stop hole swabbing.
I1	PD	RS	01:00	01:30	.5	1,462	Rig service.
I1	PD	TO	01:30	02:30	1.0	1,462	POOH
I1	PD	HT	02:30	03:30	1.0	1,462	Lay out NB Reamer and 1st String Reamer (1/4" under gauge). Top String Reamer in gauge. Recover survey - misrun. Lay out short DC and prepare to pick up motor.
I1	TD	HT	03:30	05:30	2.0	1,462	Lay out motor. Pick up stabilizers to replace undergauge reamers. Make up new BHA.
I1	TD	TI	05:30	06:00	.5	1,462	RIH
I1	TD	TI	06:00	07:00	1.0	1,462	Continue RIH to shoe.
I1	PD	SC	07:00	08:00	1.0	1,462	Slip and cut drilling line
I1	TD	TIT	08:00	10:30	2.5	1,462	RIH to 886m
I1	TD	RW	10:30	11:00	.5	1,462	Fill pipe and break circulation. Wash and ream 886m to 917m.
I1	TD	TIT	11:00	12:30	1.5	1,462	RIH to 1161m
I1	TD	RW	12:30	13:00	.5	1,462	Ream 1161m to 1183m
I1	TD	TIT	13:00	14:30	1.5	1,462	RIH to 1430m
I1	TD	RW	14:30	15:30	1.0	1,462	Wash and ream 1423m to 1462m
I1	TD	D	15:30	17:00	1.5	1,468	Drill 8 1/2" hole 1462m to 1468m. ROP dropped to zero.
I1	TD	S	17:00	17:30	.5	1,468	Circulate. Drop survey.
I1	TD	TO	17:30	20:30	3.0	1,468	POOH. Up to 20K drag at 1388m, 1351m and 1105m.
I1	TD	HT	20:30	21:30	1.0	1,468	Lay down stabilizers. Top stabilizer 1/16" under gauge, NB stabilizer and Reamer in gauge. Recover survey - 2deg. Lay out short DC.
I1	PD	HT	21:30	22:30	1.0	1,468	Make up new BHA. Pick up motor and function test.
I1	PD	TI	22:30	24:00	1.5	1,468	RIH with BHA. Pick up 6 x HWDP.

REPORT# :8

Report Date: 25/01/97

Issue Date :28/01/97

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Basic Data			Well Data					
DRILLING CO. :	O.D.E.		DEPTH m :	1,462.0	HOLE SIZE("):	8.50	TOT PERS ON SITE :	29
RIG :	30		PROGRESS m :	386.0	LAST CSG SIZE("):	9.625	AFE COST \$:	
GL ABOVE MSL (m) :	49.0		DAYS FROM SPUD :	7.15	SHOE DEPTH m :	492.80	DAILY COST \$:	35,303
ELEV RT AGL (m) :	4.6		DAYS +/- CURVE :		LEAK-OFF SG :	1.55	CUM COST \$:	646,549

Gas and General Data			Weather		
MAX GAS % :	.1		WEATHER :	Fine and clear.	
B/G GAS % :	.1		STATUS @ 0600 :	RIH	

Bit Data for Bit #4			IADC #4 1 7		
BIT SIZE ("):	8.50		AVE WOB (k-lbs) :	20	
MANUFACTURER :	RE		AVE RPM :	100	
TYPE :	EHP41HLK		FLOW (gpm) :	400	
SERIAL # :	DJ4141		PUMP PRESS. (psi) :	1,950	
DEPTH IN (m RT) :	495		NOZZ n/32" :	12 12 12	
DEPTH OUT (m RT) :	1462		HHSI (hp/sq in) :	4.89	
Calculated over last 24 hrs			Calculated over the bit run		
METRAGE (m) :	386		CUM. METRAGE (m) :	967	
ON BOTTOM HRS :	19.5		CUM. ON BOT. HRS :	42.5	
ROTATING HRS :			CUM.ROT. HRS :		
ROP m/h	19.8		ROP m/h	22.8	

Mud Data					
DAILY COST : 5,105			DAILY COST : 5,105		
Chk #13 / TYPE: KCI-PHPA		Chk #14 / TYPE: KCI-PHPA			
Property	Chk13	Chk 14	Property	Chk 13	Chk 14
SAMPLE FROM:	FL	Pit	TEMP (Deg C)	46	0
TIME :	1030	2200	SOLIDS (%vol)	4.4	4.8
WEIGHT(ppg) :	9.0	9.1	H2O (%vol)	95.6	95.2
DEPTH m :	1305	1462	OIL (%vol)	0	0
VIS. (sec/qt):	60	58	SAND(%vol) :	.13	Tr
PV (cp) :	14	14	MBT (ppb eq.) :	8	6
YP (lb/100sf) :	16	20	PH :	8.7	8.80
GEL10s(lb/100sf) :	6	5	Cl- (ppm) :	9600	9400
GEL10m(lb/100sf) :	9	16	K+ (ppm) :	8700	5300
Fann 3RPM :	7	2	HRD/CA (ppm)	420	560
Fann 6RPM :	8	7	API F. loss :	5.9	5.4

BHA Data : BHA #4								
BHA LENGTH (m) :	224.0		WT BLW JAR(k-lbs):	39	STRING WT(k-lbs) :	115	TRQE MAX (amps) :	110
HRS ON JARS :	62		BHA WT(k-lbs) :	43	PICK UP WT(k-lbs) :	120	TRQE ON (amps) :	100
BHA DESCRIPTION :	Bit, 8 1/2" NB R/Rmr, 6 1/2" pony DC, 8 1/2" R/Rmr, 1 x 6 1/2" DC, 8 1/2" R/Rmr, 15 x 6 1/2" D/C, Jars, 2 x 6 1/2" D/C, 4 x HWDP			SLK OFF WT(k-lbs) :	110	TRQE OFF (amps) :	70	

Bulk Stocks on site			FUEL (ltr):		CEMENT (sx):	
DRILL WATER (MT):	0		27750	185		
POT WATER (MT):	0		BARITE (sx):	1243	GEL (sx):	359

Survey (last 4 points)			Tool Type :Totco			
MD (m RT)	TVD (m RT)	INCL deg	AZ. deg	V SECT (m)	N/S (m)	E/W (m)
694		1.00				
998		0.50				
1,300		1.25				
1,460		2.00				

Formation Tops		
FORMATION	TOP m	BIT#
Port Campbell Limestone	40.00	1RR
Gellibrand Marl	133.00	1RR
Clifton	376.00	1RR
Ditwyn	401.00	1RR
Pember	485.00	2RR
Pebble Point	523.00	4
Paratte	543.00	4
Skull Creek/Belfast	625.00	4
Eumeralla	695.00	4
Inter Eumeralla Sand	1,351.00	4
Lower Eumeralla	1,435.00	4

Casing						
#	TYPE	LENGTH (m)	CSG ID (")	WEIGHT (lb/ft)	GRADE	THREAD

ACTIVITY FOR PERIOD 00:00 HRS TO 24:00 HRS ON 25/01/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
I1	PD	D	00:00	06:00	6.0	1,215	Drill 8 1/2" hole 1076m to 1215m
I1	PD	D	06:00	11:00	5.0	1,315	Drill 8 1/2" hole 1215m to 1315m
I1	PD	S	11:00	11:30	.5	1,315	Circulate and survey 1.25deg at 1300m.
I1	PD	D	11:30	20:00	8.5	1,462	Drill 8 1/2" hole 1315m to 1462m. ROP dropped from 15-20mph to 5mph.
I1	PD	CIR	20:00	21:00	1.0	1,462	Circulate bottoms up. Pump slug and drop survey.
I1	PD	TOT	21:00	24:00	3.0	1,462	POOH. Up to 25K drag at 1392m, 1374m, 1316-1313m, 1264m, 1214-1058m. Work through tight spots to stop hole swabbing.

REPORT# :7

Report Date: 24/01/97

Issue Date :28/01/97

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Basic Data		Well Data					
DRILLING CO. :	O.D.E.	DEPTH m :	1,076.0	HOLE SIZE("):	8.50	TOT PERS ON SITE :	29
RIG :	30	PROGRESS m :	578.0	LAST CSG SIZE("):	9.625	AFE COST \$:	
GL ABOVE MSL (m) :	49.0	DAYS FROM SPUD :	6.15	SHOE DEPTH m :	492.80	DAILY COST \$:	32,773
ELEV RT AGL (m) :	4.6	DAYS +/- CURVE :		LEAK-OFF SG :	1.55	CUM COST \$:	646,549

Gas and General Data		WEATHER :	
MAX GAS % :	.1	Cool and overcast	
B/G GAS % :	.1	STATUS @ 0600 :	Drill 8 1/2" hole at 1215m

Bit Data for Bit #4		IADC #4 1 7	
BIT SIZE ("):	8.50	AVE WOB (k-lbs) :	20
MANUFACTURER :	RE	AVE RPM :	100
TYPE :	EHP41HLK	FLOW (gpm) :	410
SERIAL # :	DJ4141	PUMP PRESS. (psi):	1,950
DEPTH IN (m RT) :	495	NOZZ n/32" :	12 12 12
DEPTH OUT (m RT) :	1076	HHSI (hp/sq in) :	5.32
Calculated over last 24 hrs		Calculated over the bit run	
METRAGE (m) :	578	CUM. METRAGE (m) :	581
ON BOTTOM HRS :	22.5	CUM. ON BOT. HRS :	23.0
ROTATING HRS :		CUM.ROT. HRS :	
ROP m/h	25.7	ROP m/h	25.3

Mud Data		DAILY COST : 3,775			
Chk #11 / TYPE: KCI-PHPA		Chk #12 / TYPE: KCI-PHPA			
Property	Chk11	Chk 12	Property	Chk 11	Chk 12
SAMPLE FROM:	FL	FL	TEMP (Deg C)	40	44
TIME :	0930	2300	SOLIDS (%vol) :	1.7	3.6
WEIGHT(ppg) :	8.7	8.9	H2O (%vol) :	98.3	96.4
DEPTH m :	708	1054	OIL (%vol) :	0	0
VIS. (sec/qt):	36	60	SAND(%vol) :	.25	.13
PV (cp) :	8	13	MBT (ppb eq.) :	5	6
YP (lb/100sf) :	11	26	PH :	9.0	9.00
GEL10s(lb/100sf) :	1	4	Cl- (ppm) :	11200	11000
GEL10m(lb/100sf) :	2	9	K+ (ppm) :	11000	5700
Fann 3RPM :	3	6	HRD/CA (ppm)	280	400
Fann 6RPM :	2	6	API F. loss :	10.4	6.3

Bit Wear	#	MTGE	HRS	I	O	D	L	B	G	O	R
	4	581	23.0								

BHA Data : BHA #4							
BHA LENGTH (m) :	224.0	WT BLW JAR(k-lbs):	39	STRING WT(k-lbs) :	100	TRQE MAX (amps) :	100
HRS ON JARS :	42	BHA WT(k-lbs) :	43	PICK UP WT(k-lbs) :	105	TRQE ON (amps) :	90
BHA DESCRIPTION :	Bit, 8 1/2" NB R/Rmr, 6 1/2" pony DC, 8 1/2" R/Rmr, 1 x 6 1/2" DC, 8 1/2" R/Rmr, 15 x 6 1/2" D/C, Jars, 2 x 6 1/2" D/C, 4 x HWDP			SLK OFF WT(k-lbs) :	97	TRQE OFF (amps) :	60

Bulk Stocks on site		DRILL WATER (MT): 0		FUEL (ltr): 33000		CEMENT (sx): 185	
		POT WATER (MT): 0		BARITE (sx): 1243		GEL (sx): 359	

Survey (last 4 points)		Tool Type :Totco				
MD (m RT)	TVD (m RT)	INCL deg	AZ. deg	V SECT (m)	N/S (m)	E/W (m)
694		1.00				
998		0.50				
1,300		1.25				
1,460		2.00				

Formation Tops		
FORMATION	TOP m	BIT#
Port Campbell Limestone	40.00	1RR
Gellibrand Marl	133.00	1RR
Clifton	376.00	1RR
Dilwyn	401.00	1RR
Pember	485.00	2RR
Pebble Point	523.00	4
Paratte	543.00	4
Skull Creek/Belfast	625.00	4
Eumeralla	695.00	4
Inter Eumeralla Sand	1,351.00	4
Lower Eumeralla	1,435.00	4

Casing						
#	TYPE	LENGTH (m)	CSG ID (")	WEIGHT (lb/ft)	GRADE	THREAD

ACTIVITY FOR PERIOD 00:00 HRS TO 24:00 HRS ON 24/01/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
I1	PD	LOT	00:00	00:30	.5	498	Pull back into casing. Conduct FIT to 370psi w/- 8.5ppg mud - EMW 12.9ppg
I1	PD	D	00:30	06:00	5.5	637	Drill 8 1/2" hole 498m to 637m
I1	PD	D	06:00	09:30	3.5	708	Drill 8 1/2" hole 637m to 708m
I1	PD	S	09:30	10:00	.5	708	Circulate and survey at 694m 1 deg
I1	PD	D	10:00	21:00	11.0	1,013	Drill 8 1/2" hole 708m to 1013m
I1	PD	S	21:00	21:30	.5	1,013	Circulate and survey at 998m 0.5deg
I1	PD	D	21:30	24:00	2.5	1,076	Drill 8 1/2" hole 1013m to 1076m

Basic Data		Well Data			TOT PERS ON SITE : 30		
DRILLING CO. :	O.D.E.	DEPTH m :	498.0	HOLE SIZE("):	8.50	AFE COST \$:	1,076,300
RIG :	30	PROGRESS m :	3.0	LAST CSG SIZE("):	9.625	DAILY COST \$:	56,503
GL ABOVE MSL (m) :	49.0	DAYS FROM SPUD :	5.15	SHOE DEPTH m :	492.80	CUM COST \$:	490,702
ELEV RT AGL (m) :	4.6	DAYS +/- CURVE :		LEAK-OFF SG :	1.55		

Gas and General Data		WEATHER : Cold and overcast	
MAX GAS % :		STATUS @ 0600 :	Drill 8 1/2" hole at 637m
B/G GAS % :	0.0		

Bit Data for Bit #4		IADC #4 1 7	
BIT SIZE ("):	8.50	AVE WOB (k-lbs) :	15
MANUFACTURER :	RE	AVE RPM :	100
TYPE :	EHP41HLK	FLOW (gpm) :	428
SERIAL # :		PUMP PRESS. (psi):	1,550
DEPTH IN (m RT) :	495	NOZZ n/32"	12 12 12
DEPTH OUT (m RT) :		HHSI (hp/sq in) :	6.08
Calculated over last 24 hrs		Calculated over the bit run	
METRAGE (m) :	3	CUM. METRAGE (m) :	3
ON BOTTOM HRS :	.5	CUM. ON BOT. HRS :	.5
ROTATING HRS :		CUM.ROT. HRS :	
ROP m/h	6.0	ROP m/h	6.0

Mud Data		DAILY COST \$:0		CUM COST \$:0	
Chk #:10 / TYPE: KCI-PHPA		Chk #:0 / TYPE :			
Property	Chk10	Chk 0	Property	Chk 10	Chk 0
SAMPLE FROM:	FL		TEMP (Deg C)	22	0
TIME :	2320		SOLIDS (%vol)	0.6	
WEIGHT(ppg) :	8.5	0.0	H2O (%vol) :	99.4	0.0
DEPTH m :	498	0	OIL (%vol) :	0	0
VIS. (sec/qt):	33	0	SAND(%vol) :	Tr	
PV (cp) :	5	0	MBT (ppb eq.) :	2	0
YP (lb/100sf) :	5	0	PH :	9.0	0.00
GEL10s(lb/100sf) :	2	0	Cl- (ppm) :	10600	0
GEL10m(lb/100sf) :	2	0	K+ (ppm) :	9800	0
Fann 3RPM :	2	0	HRD/CA (ppm)	120	0
Fann 6RPM :	2	0	API F. loss :	23.4	0.0

Bit Wear	#	MTGE	HRS	I	O	D	L	B	G	O	R
	4	3	0.5								

BHA Data : BHA #4			
BHA LENGTH (m) :	224.0	WT BLW JAR(k-lbs):	39
HRS ON JARS :	19	BHA WT(k-lbs) :	43
BHA DESCRIPTION :	Bit, 8 1/2" NB R/Rmr, 6 1/2" pony DC, 8 1/2" R/Rmr, 1 x 6 1/2" DC, 8 1/2" R/Rmr, 15 x 6 1/2" D/C, Jars, 2 x 6 1/2" D/C, 4 x HWDP		
STRING WT(k-lbs) :		TRQE MAX (amps) :	
PICK UP WT(k-lbs) :		TRQE ON (amps) :	
SLK OFF WT(k-lbs) :		TRQE OFF (amps) :	

Bulk Stocks on site	DRILL WATER (MT): 0	FUEL (ltr): 24050	CEMENT (sx): 185
	POT WATER (MT): 0	BARITE (sx) : 1243	GEL (sx): 359

Survey (last 4 points)		Tool Type :Totco				
MD (m RT)	TVD (m RT)	INCL deg	AZ. deg	V SECT (m)	N/S (m)	E/W (m)
31		0.25				
231		0.25				
445		0.25				

Current Pump Data and Slow Circulating Rate Data									
Pump Data - last 24 hrs							SCR Data		
#	TYPE	LNR	SPM	EFF (%)	Flow gpm	SPP psi	SPM	SPP psi	DEPTH m RT
1	GD-PZ-8	6.00	75	97.0	428	1550			
2	GD-PZ-8	6.00	75	97.0					

Personnel on Site =30			
NAME	JOB TITLE	COMPANY NAME	#
Alex Bradley	Drilling Supervisor	Cultus	3
Dave Horner	Geologist	ODE	22
		Halliburton	4
		IDFS	1

Drills, Permits & Inspections			
DRILL TYPE	TIMING	INSPECTIONS	TIMING
TRIP DRILL		LAST CSG PRESS TEST	23/1/97
FIRE		SAFETY MEETING	22/1/97
PIT DRILL		SAFETY INSPECTION	18/1/97
INCIDENT	22/1/97	DAYS SINCE LAST BOP TES	0
		LAST BOP TEST	23/1/97

Casing						
CSG OD	PHASE	CSG SHOE MD	CSG SHOE TVD			
#	TYPE	LENGTH (m)	CSG ID (")	WEIGHT (lb/ft)	GRADE	THREAD

Formation Tops		
FORMATION	TOP m	BIT#
Port Campbell Limestone	40.00	1RR
Gellibrand Marl	133.00	1RR
Clifton	376.00	1RR
Dilwyn	401.00	1RR
Pember	485.00	2RR
Pebble Point	523.00	4
Paratte	543.00	4

REPORT# :6

Report Date: 23/01/97

Issue Date : 24/01/97

Page Number : 2

ACTIVITY FOR PERIOD 00:00 HRS TO 24:00 HRS ON 23/01/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
S1	PD	WH	00:00	00:30	.5	495	Install Section "A" wellhead.
S1	PD	BO	00:30	07:30	7.0	495	Nipple up BOP's. Install kill and choke lines.
S1	PD	BO	07:30	08:30	1.0	495	Install bell nipple and flowline. Install mousehole.
S1	PD	BO	08:30	09:30	1.0	495	Function test BOP's.
S1	PD	BO	09:30	10:30	1.0	495	Rig up to test surface equipment
S1	PD	BO	10:30	12:30	2.0	495	Pressure test kelly cocks, standpipe and full opening safety valve 300/3000psi.
S1	TD	BO	12:30	14:00	1.5	495	Rig up to test BOP's. Change rubber on cup tester.
S1	PD	BO	14:00	17:00	3.0	495	Pressure test BOP's. Inner and outer kill line and choke line valves, choke line, choke manifold and pipe rams to 300/3000psi. Hydril to 300/1500psi. Blind rams to 1000psi. Outer kill valve leaking.
S1	PD	HT	17:00	18:30	1.5	495	Lay down 8" DC's.
I1	PD	HT	18:30	20:30	2.0	495	Make up 8 1/2" BHA
I1	PD	TI	20:30	22:00	1.5	495	RIH. Tag top of cement at 479m
I1	PD	DFS	22:00	23:30	1.5	495	Drill out cement and float equipment. Shoe at 492.8m
I1	PD	D	23:30	24:00	.5	498	Clean out to 495m. Drill 8 1/2" hole 495m to 498m.

ACTIVITY FOR PERIOD 00:00 HRS TO 06:00 HRS ON 24/01/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
I1	PD	LOT	00:00	00:30	.5	498	Pull back into casing. Conduct FIT to 370psi w/- 8.5ppg mud - EMW 12.9ppg
I1	PD	D	00:30	06:00	5.5	637	Drill 8 1/2" hole 498m to 637m

Basic Data		Well Data				
DRILLING CO. :	O.D.E.	DEPTH m :	495.0	HOLE SIZE("):	TOT PERS ON SITE :	31
RIG :	30	PROGRESS m :	24.0	LAST CSG SIZE("):	AFE COST \$:	1,076,300
GL ABOVE MSL (m) :	49.0	DAYS FROM SPUD :	4.15	SHOE DEPTH m :	DAILY COST \$:	76,927
ELEV RT AGL (m) :	4.6	DAYS +/- CURVE :		LEAK-OFF SG :	CUM COST \$:	434,199

Gas and General Data		WEATHER :	
MAX GAS % :		Cold and overcast	
B/G GAS % :		STATUS @ 0600 : Torque tighten all bolts on BOP's	

Bit Data for Bit #2RR		IADC # 5 1 7									
BIT SIZE ("):	12.25	AVE WOB (k-lbs) :	12								
MANUFACTURER :	SM	AVE RPM :	100								
TYPE :	F2	FLOW (gpm) :	670								
SERIAL # :	LG4836	PUMP PRESS. (psi):	1,650								
DEPTH IN (m RT) :	471	NOZZ n/32" :	16 16 16								
DEPTH OUT (m RT) :	495	HHSI (hp/sq in) :	3.52								
Calculated over last 24 hrs		Calculated over the bit run									
METRAGE (m) :	24	CUM. METRAGE (m) :	24								
ON BOTTOM HRS :	3.0	CUM. ON BOT. HRS :	3.0								
ROTATING HRS :		CUM.ROT. HRS :									
ROP m/h	8.0	ROP m/h	8.0								
Bit Wear	#	MTGE	HRS	I	O	D	L	B	G	O	R
2RR	24	3.0	1	1	N	A	E	I	N	T	D

Mud Data		DAILY COST \$:0		CUM COST \$:0	
Chk #:9 / TYPE: Gel - Spud		Chk #:0 / TYPE :			
Property	Chk9	Chk 0	Property	Chk 9	Chk 0
SAMPLE FROM:	Pit		TEMP (Deg C)	0	0
TIME :	2100		SOLIDS (%vol) :	4.5	
WEIGHT(ppg) :	9.0	0.0	H2O (%vol) :	95.5	0.0
DEPTH m :	495	0	OIL (%vol) :	0	0
VIS. (sec/qt):	35	0	SAND(%vol) :	Tr	
PV (cp) :	3	0	MBT (ppb eq.) :	16	0
YP (lb/100sf) :	6	0	PH :	7.8	0.00
GEL10s(lb/100sf) :	1	0	Cl- (ppm) :	2800	0
GEL10m(lb/100sf) :	2	0	K+ (ppm) :	0	0
Fann 3RPM :	2	0	HRD/CA (ppm)	140	0
Fann 6RPM :	2	0	API F. loss :	13.8	0.0

BHA Data : BHA #			
BHA LENGTH (m) :		WT BLW JAR(k-lbs):	
HRS ON JARS :		BHA WT(k-lbs) :	
BHA DESCRIPTION :		STRING WT(k-lbs) :	
		PICK UP WT(k-lbs) :	
		SLK OFF WT(k-lbs) :	
		TRQE MAX (amps) :	
		TRQE ON (amps) :	
		TRQE OFF (amps) :	

Bulk Stocks on site		DRILL WATER (MT): 0	FUEL (ltr): 26700	CEMENT (sx): 185
		POT WATER (MT): 0	BARITE (sx): 1243	GEL (sx): 360

Survey (last 4 points)		Tool Type :Totco				
MD (m RT)	TVD (m RT)	INCL deg	AZ deg	V SECT (m)	N/S (m)	E/W (m)
31		0.25				
231		0.25				
445		0.25				

Current Pump Data and Slow Circulating Rate Data									
Pump Data - last 24 hrs							SCR Data		
#	TYPE	LNR (")	SPM	EFF (%)	Flow gpm	SPP psi	SPM	SPP psi	DEPTH m RT
1	GD-PZ-8	6.00	120	95.0	670	1650			
2	GD-PZ-8	6.00	120	95.0					

Personnel on Site =31			
NAME	JOB TITLE	COMPANY NAME	#
Alex Bradley	Drilling Supervisor	Cultus	3
Dave Horner	Geologist	ODE	22
		Halliburton	5
		IDFS	1

Drills, Permits & Inspections			
DRILL TYPE	TIMING	INSPECTIONS	TIMING
TRIP DRILL		LAST CSG PRESS TEST	22/1/97
FIRE		SAFETY MEETING	18/1/97
PIT DRILL		SAFETY INSPECTION	
INCIDENT	22/1/97	DAYS SINCE LAST BOP TES	
		LAST BOP TEST	

Casing						
CSG OD	PHASE	CSG SHOE MD	CSG SHOE TVD			
9.63		493	493			
#	TYPE	LENGTH (m)	CSG ID (")	WEIGHT (lb/ft)	GRADE	THREAD
1	Float Shoe	.5		47.0	N80	Butt
2	1 x 9 5/8" Casing	12.0		47.0	N80	Butt
3	Float Collar	.4		47.0	N80	Butt
4	18 x 9 5/8" Casing	216.0		47.0	N80	Butt
5	22 x 9 5/8" Casing	258.3		43.5	N80	Butt

Formation Tops		
FORMATION	TOP m	BIT#
Port Campbell Limestone	40.00	1RR
Gellibrand Marl	133.00	1RR
Clifton	376.00	1RR
Dilwyn	401.00	1RR
Pember	485.00	2RR

ACTIVITY FOR PERIOD 00:00 HRS TO 24:00 HRS ON 22/01/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
S1	PD	TO	00:00	01:00	1.0	471	Continue POOH. Strap pipe - no correction (0.21m difference)
S1	PD	TI	01:00	03:30	2.5	471	Change bit. RIH. Wash to bottom at 471m.
S1	PD	D	03:30	06:00	2.5	495	Drill 12 1/4" hole 471m to 495m
S1	PD	CIR	06:00	06:30	.5	495	Pump havis sweep. Circulate hole clean.
S1	PD	TO	06:30	09:00	2.5	495	POOH - no drag.
S1	PD	RR	09:00	10:30	1.5	495	Rig up to run 9 5/8" casing. Hold pre-job safety meeting.
S1	PD	RC	10:30	14:30	4.0	495	Run 9 5/8" casing - total of 41jts. Shoe at 492.8m. Float collar at 479.9m
S1	PD	CIC	14:30	15:00	.5	495	Circulate 150bbl at 456gpm and 200psi.
S1	PD	CM	15:00	15:30	.5	495	Rig up Halliburton. Hold pre-job safety meeting. Pump 20bbl water ahead. Pressure test lines to 3000psi.
S1	PD	CM	15:30	16:00	.5	495	Mix and pump 287sx "G" cement w/- 83.5bbl of 3% PHG at 12.5ppg followed by 124sx "G" w/- 15bbl of water + 1% CaCl2. Drop top plug. Pump 5bbl water.
S1	PD	CM	16:00	16:30	.5	495	Displace w/- rig pumps 112bbl mud at 8bpm (total 117bbl). Bump plug to 900psi. Halliburton pressure test casing to 3000psi. Release pressure - floats held OK.
S1	PD	WO	16:30	18:30	2.0	495	Clean out cellar. Drain and flush conductor. Remove flowline. Cut conductor. Cement static at cellar floor.
S1	PD	WO	18:30	20:30	2.0	495	Wait on cement.
S1	PD	RD	20:30	22:30	2.0	495	Land casing w/- string weight of 55000lbs. Lay out cement head and lines. Break out landing joint and lay out. Lay out conductor cutoff.
S1	PD	RD	22:30	23:30	1.0	495	Rig down casing gear. Lay out mousehole.
S1	PD	WH	23:30	24:00	.5	495	Install Section "A" wellhead.

ACTIVITY FOR PERIOD 00:00 HRS TO 06:00 HRS ON 23/01/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
S1	PD	WH	00:00	00:30	.5	495	Install Section "A" wellhead.
S1	PD	BO	00:30	06:00	5.5	495	Nipple up BOP's. Install kill and choke lines.

BR

Cultus Petroleum NL

DAILY DRILLING REPORT

Taralea #1

REPORT# : 4

Report Date: 21/01/97

Issue Date : 22/01/97

Page Number : 1

Basic Data		Well Data					
DRILLING CO. :	O.D.E.	DEPTH m :	471.0	HOLE SIZE("):	12.25	TOT PERS ON SITE :	33
RIG :	30	PROGRESS m :	423.0	LAST CSG SIZE("):	16	AFE COST \$:	1,076,300
GL ABOVE MSL (m) :	49.0	DAYS FROM SPUD :	3.15	SHOE DEPTH m :	12.00	DAILY COST \$:	32,540
ELEV RT AGL (m) :	4.6	DAYS +/- CURVE :		LEAK-OFF SG :		CUM COST \$:	357,272

Gas and General Data		WEATHER :		Cold, wet and overcast.	
MAX GAS % :		STATUS @ 0600 :	Circulate bottoms up at casing point - 495m.		
B/G GAS % :					

Bit Data for Bit #1RR		IADC # 1 1 6		Mud Data		DAILY COST \$:1,859		CUM COST \$:4,038																																																																									
BIT SIZE ("):	12.25	AVE WOB (k-lbs) :	12	Chk #7 / TYPE:	Gel - Spud	Chk #8 / TYPE:	Gel - Spud																																																																										
MANUFACTURER :	RE	AVE RPM :	110	<table border="1"> <thead> <tr> <th>Property</th> <th>Chk7</th> <th>Chk8</th> <th>Property</th> <th>Chk7</th> <th>Chk8</th> </tr> </thead> <tbody> <tr> <td>SAMPLE FROM:</td> <td>FL</td> <td>FL</td> <td>TEMP (Deg C)</td> <td>24</td> <td>28</td> </tr> <tr> <td>TIME :</td> <td>1100</td> <td>2230</td> <td>SOLIDS (%vol) :</td> <td>.5</td> <td>4.1</td> </tr> <tr> <td>WEIGHT(ppg) :</td> <td>8.4</td> <td>8.9</td> <td>H2O (%vol) :</td> <td>99.5</td> <td>95.8</td> </tr> <tr> <td>DEPTH m :</td> <td>253</td> <td>456</td> <td>OIL (%vol) :</td> <td>0</td> <td>0</td> </tr> <tr> <td>VIS. (sec/qt):</td> <td>27</td> <td>31</td> <td>SAND(%vol) :</td> <td>Tr</td> <td>.75</td> </tr> <tr> <td>PV (cp) :</td> <td>0</td> <td>3</td> <td>MBT (ppb eq.) :</td> <td>0</td> <td>9</td> </tr> <tr> <td>YP (lb/100sf) :</td> <td>0</td> <td>3</td> <td>PH :</td> <td>6.2</td> <td>7.00</td> </tr> <tr> <td>GEL10s(lb/100sf) :</td> <td>0</td> <td>1</td> <td>Cl- (ppm) :</td> <td>450</td> <td>2000</td> </tr> <tr> <td>GEL10m(lb/100sf) :</td> <td>0</td> <td>2</td> <td>K+ (ppm) :</td> <td>0</td> <td>0</td> </tr> <tr> <td>Fann 3RPM :</td> <td>0</td> <td>1</td> <td>HRD/CA (ppm)</td> <td>0</td> <td>200</td> </tr> <tr> <td>Fann 6RPM :</td> <td>0</td> <td>1</td> <td>API F. loss :</td> <td>0.0</td> <td>15.0</td> </tr> </tbody> </table>						Property	Chk7	Chk8	Property	Chk7	Chk8	SAMPLE FROM:	FL	FL	TEMP (Deg C)	24	28	TIME :	1100	2230	SOLIDS (%vol) :	.5	4.1	WEIGHT(ppg) :	8.4	8.9	H2O (%vol) :	99.5	95.8	DEPTH m :	253	456	OIL (%vol) :	0	0	VIS. (sec/qt):	27	31	SAND(%vol) :	Tr	.75	PV (cp) :	0	3	MBT (ppb eq.) :	0	9	YP (lb/100sf) :	0	3	PH :	6.2	7.00	GEL10s(lb/100sf) :	0	1	Cl- (ppm) :	450	2000	GEL10m(lb/100sf) :	0	2	K+ (ppm) :	0	0	Fann 3RPM :	0	1	HRD/CA (ppm)	0	200	Fann 6RPM :	0	1	API F. loss :	0.0	15.0
Property	Chk7	Chk8	Property	Chk7	Chk8																																																																												
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Fann 6RPM :	0	1	API F. loss :	0.0	15.0																																																																												
TYPE :	HP11	FLOW (gpm) :	670																																																																														
SERIAL # :	DJ4265	PUMP PRESS. (psi):	1,250																																																																														
DEPTH IN (m RT) :	36	NOZZ n/32" :	18 18 18																																																																														
DEPTH OUT (m RT) :	471	HHSI (hp/sq in) :	2.08																																																																														
Calculated over last 24 hrs			Calculated over the bit run																																																																														
METRAGE (m) :	432	CUM. METRAGE (m) :	435																																																																														
ON BOTTOM HRS :	20.5	CUM. ON BOT. HRS :	24.0																																																																														
ROTATING HRS :		CUM.ROT. HRS :																																																																															
ROP m/h	21.1	ROP m/h	18.1																																																																														
<table border="1"> <thead> <tr> <th>Bit Wear</th> <th>#</th> <th>MTGE</th> <th>HRS</th> <th>I</th> <th>O</th> <th>D</th> <th>L</th> <th>B</th> <th>G</th> <th>O</th> <th>R</th> </tr> </thead> <tbody> <tr> <td>1RR</td> <td>435</td> <td>24.0</td> <td>1</td> <td>3</td> <td>W</td> <td>A</td> <td>F</td> <td>1</td> <td>R</td> <td>PR</td> <td></td> </tr> </tbody> </table>										Bit Wear	#	MTGE	HRS	I	O	D	L	B	G	O	R	1RR	435	24.0	1	3	W	A	F	1	R	PR																																																	
Bit Wear	#	MTGE	HRS	I	O	D	L	B	G	O	R																																																																						
1RR	435	24.0	1	3	W	A	F	1	R	PR																																																																							

BHA Data : BHA #3			
BHA LENGTH (m) :	183.9	WT BLW JAR(k-lbs):	34
HRS ON JARS :	14	BHA WT(k-lbs) :	39
BHA DESCRIPTION :	Bit, NB Stab, 1 x 8" DC, 12 1/4" Stab, 1 x 8" DC, 12 1/4" Stab, X/O, 9 x 6 1/2" DC, Jars, 2 x 6 1/2" DC, 4 x HWDP.		
STRING WT(k-lbs) :	45	TRQE MAX (amps) :	
PICK UP WT(k-lbs) :	60	TRQE ON (amps) :	
SLK OFF WT(k-lbs) :	60	TRQE OFF (amps) :	

Bulk Stocks on site	DRILL WATER (MT): 0	FUEL (ltr): 29750	CEMENT (sx): 596
	POT WATER (MT): 0	BARITE (sx) : 1243	GEL (sx): 400

Survey (last 4 points)							Tool Type :Totco							Current Pump Data and Slow Circulating Rate Data										
MD (m RT)	TVD (m RT)	INCL deg	AZ. deg	V SECT (m)	N/S (m)	E/W (m)								Pump Data - last 24 hrs					SCR Data					
31		0.25					#	TYPE	LNR (")	SPM	EFF (%)	Flow gpm	SPP psi	SPM	SPP psi	DEPTH m RT								
231		0.25					1	GD-PZ-8	6.00	120	95.0	670	1250											
445		0.25					2	GD-PZ-8	6.00	120	95.0													

Personnel on Site = 33			
NAME	JOB TITLE	COMPANY NAME	#
Alex Bradley	Drilling Supervisor	Cultus	3
Dave Horner	Geologist	ODE	24
		Halliburton	5
		IDS	1

Drills, Permits & Inspections			
DRILL TYPE	TIMING	INSPECTIONS	TIMING
TRIP DRILL		LAST CSG PRESS TEST	
FIRE		SAFETY MEETING	18/1/97
PIT DRILL		SAFETY INSPECTION	18/1/97
INCIDENT		DAYS SINCE LAST BOP TES	
		LAST BOP TEST	

Casing						
CSG OD	PHASE	CSG SHOE MD	CSG SHOE TVD			
#	TYPE	LENGTH (m)	CSG ID (")	WEIGHT (lb/ft)	GRADE	THREAD

Formation Tops		
FORMATION	TOP m	BIT#
Port Campbell Limestone	40.00	1RR
Gellibrand Marl	133.00	1RR
Clifton	376.00	1RR
Dilwyn	401.00	1RR

ACTIVITY FOR PERIOD 00:00 HRS TO 24:00 HRS ON21/01/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
S1	TD	RW	00:00	02:00	2.0	48	Open hole to 12 1/4" 39m to 44m
S1	PD	S	02:00	02:30	.5	48	Survey at 31m 0.25deg
S1	TD	RW	02:30	03:00	.5	48	Open hole to 12 1/4" 44m to 48m
S1	PD	D	03:00	06:00	3.0	130	Drill 12 1/4" hole 48m to 130m.
S1	PD	D	06:00	10:30	4.5	243	Drill 12 1/4" hole 130m to 243m
S1	PD	S	10:30	11:00	.5	243	Survey at 231m 0.25deg
S1	PD	D	11:00	16:00	5.0	363	Drill 12 1/4" hole 243m to 363m
S1	TD	CIR	16:00	16:30	.5	363	Clean out mud rings in flow line.
S1	PD	D	16:30	17:00	.5	366	Drill 12 1/4" hole 363m to 366m while pumping KCL slug.
S1	TD	CIR	17:00	17:30	.5	366	Clean out mud rings in flow line.
S1	PD	D	17:30	22:00	4.5	459	Drill 12 1/4" hole 366m to 459m
S1	PD	S	22:00	22:30	.5	459	Survey at 445m 0.25deg.
S1	PD	D	22:30	23:00	.5	471	Drill 12 1/4" hole 459m to 471m. ROP down from 30m/hr to 10 m/hr.
S1	PD	TO	23:00	24:00	1.0	471	POOH. Strap pipe.

ACTIVITY FOR PERIOD 00:00 HRS TO 06:00 HRS ON22/01/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
S1	PD	TO	00:00	01:00	1.0	471	Continue POOH. Strap pipe - no correction (0.21m difference)
S1	PD	TI	01:00	03:30	2.5	471	Change bit. RIH. Wash to bottom at 471m.
S1	PD	D	03:30	06:00	2.5	495	Drill 12 1/4" hole 471m to 495m

REPORT# :3

Report Date: 20/01/97

Issue Date :21/01/97

Page Number : 1

Basic Data		Well Data					
DRILLING CO. :	O.D.E.	DEPTH m :	48.0	HOLE SIZE("):	12.25	TOT PERS ON SITE :	34
RIG :	30	PROGRESS m :	18.0	LAST CSG SIZE("):	16	AFE COST \$:	1,076,300
GL ABOVE MSL (m) :	49.0	DAYS FROM SPUD :	2.15	SHOE DEPTH m :	12.00	DAILY COST \$:	45,580
ELEV RT AGL (m) :	4.3	DAYS +/- CURVE :		LEAK-OFF SG :		CUM COST \$:	324,732

Gas and General Data		WEATHER :	
MAX GAS % :		Fine and clear	
B/G GAS % :		STATUS @ 0600 :	Drill 12 1/4" hole at 130m.

Bit Data for Bit #1RR		IADC # 1 1 6									
BIT SIZE ("):	12.25	AVE WOB (k-lbs) :	5								
MANUFACTURER :	RE	AVE RPM :	80								
TYPE :	HP11	FLOW (gpm) :	218								
SERIAL # :	DJ4265	PUMP PRESS. (psi):	150								
DEPTH IN (m RT) :	36	NOZZ n/32" :	18 18 18								
DEPTH OUT (m RT) :	39	HHSI (hp/sq in) :	0.30								
Calculated over last 24 hrs					Calculated over the bit run						
METRAGE (m) :	3	CUM. METRAGE (m) :	3								
ON BOTTOM HRS :	3.5	CUM. ON BOT. HRS :	3.5								
ROTATING HRS :		CUM.ROT. HRS :									
ROP m/h	0.9	ROP m/h	.9								
Bit Wear	#	MTGE	HRS	I	O	D	L	B	G	O	R
	1	22	17.5	1	1	N	A	E	I	N	PR
	2	2	4.0	0	0	N	A	E	I	N	BH
	3RR	12	3.5	2	2	WI	M	E	I	N	BH
	1RR	3	3.5								

Mud Data		DAILY COST \$:598		CUM COST \$ 2,178	
Chk #5 / TYPE: Gel - Spud		Chk #6 / TYPE: Gel - Spud			
Property	Chk5	Chk6	Property	Chk5	Chk6
SAMPLE FROM:	FL	FL	TEMP (Deg C)	35	33
TIME :	0930	2200	SOLIDS (%vol) :	1.7	1.7
WEIGHT(ppg) :	8.6	8.6	H2O (%vol) :	98.3	98.3
DEPTH m :	36	48	OIL (%vol) :	0	0
VIS. (sec/qt):	42	47	SAND(%vol) :	Tr	Tr
PV (cp) :	6	7	MBT (ppb eq.) :	17	23
YP (lb/100sf) :	24	26	PH :	12.0	11.50
GEL10s(lb/100sf) :	14	17	Cl- (ppm) :	4900	5500
GEL10m(lb/100sf) :	17	19	K+ (ppm) :	0	0
Fann 3RPM :	17	25	HRD/CA (ppm)	40	40
Fann 6RPM :	19	27	API F. loss :	36.8	33.2

BHA Data : BHA #3			STRING WT(k-lbs) :		TRQE MAX (amps) :	
BHA LENGTH (m) :	32.2	WT BLW JAR(k-lbs):			PICK UP WT(k-lbs) :	
HRS ON JARS :		BHA WT(k-lbs) :	12		TRQE ON (amps) :	
BHA DESCRIPTION :	Bit, NB Stab, 1 x 8" DC, 12 1/4" Stab, 2 x 8" DC, X/O		SLK OFF WT(k-lbs) :		TRQE OFF (amps) :	

Bulk Stocks on site		DRILL WATER (MT): 0	FUEL (ltr): 33039	CEMENT (sx): 596
		POT WATER (MT): 0	BARITE (sx) : 1243	GEL (sx): 400

Survey (last 4 points)		Tool Type :Totco				
MD (m RT)	TVD (m RT)	INCL deg	AZ deg	V SECT (m)	N/S (m)	E/W (m)
31		0.25				

Current Pump Data and Slow Circulating Rate Data									
Pump Data - last 24 hrs						SCR Data			
#	TYPE	LNR (")	SPM	EFF (%)	Flow gpm	SPP psi	SPM	SPP psi	DEPTH m RT
1	GD-PZ-8	6.00	110	95.0	600	870			
2	GD-PZ-8	6.00	110	95.0					

Personnel on Site =34			
NAME	JOB TITLE	COMPANY NAME	#
Alex Bradley	Drilling Supervisor	Cultus	3
Dave Horner	Geologist	ODE	24
		Halliburton	6
		IDFS	1

Drills, Permits & Inspections			
DRILL TYPE	TIMING	INSPECTIONS	TIMING
TRIP DRILL		LAST CSG PRESS TEST	18/1/97
FIRE		SAFETY MEETING	18/1/97
PIT DRILL		SAFETY INSPECTION	
INCIDENT		DAYS SINCE LAST BOP TES	
		LAST BOP TEST	

Casing						
CSG OD	PHASE	CSG SHOE MD	CSG SHOE TVD			
#	TYPE	LENGTH (m)	CSG ID (")	WEIGHT (lb/ft)	GRADE	THREAD

Formation Tops		
FORMATION	TOP m	BIT#
Port Campbell Limestone	40.00	1RR

ACTIVITY FOR PERIOD 00:00 HRS TO 24:00 HRS ON20/01/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
S1	PD	D	00:00	05:00	5.0	34	Drill 12 1/4" hole 30m to 34m
S1	TD	TRP	05:00	05:30	.5	34	POOH to change bit. RIH w/- insert bit.
S1	PD	D	05:30	09:30	4.0	36	Drill 12 1/4" hole 34m to 36m.
S1	TD	TO	09:30	10:00	.5	36	POOH. Stand back 8" DC's.
S1	TD	HT	10:00	11:00	1.0	36	Pick up 6 1/2" downhole motor. Unable to set angle to 0deg.
S1	TD	HT	11:00	12:00	1.0	36	Pick up 2nd downhole motor. Make up 8 1/2" BHA
S1	TD	DM	12:00	15:30	3.5	48	Drill 8 1/2" hole 36m to 48m. Broke out of basalt at 40m
S1	TD	TO	15:30	16:30	1.0	48	POOH. Lay down motor.
S1	TD	HT	16:30	17:30	1.0	48	Make up 12 1/4" BHA. Unable to go below 13m. Lay down 2 x 8" DC's.
S1	TD	RW	17:30	20:30	3.0	48	Ream 12 1/4" hole to 36m
S1	TD	RW	20:30	24:00	3.5	48	Open 8 1/2" pilot hole to 12 1/4" 36m to 39m

ACTIVITY FOR PERIOD 00:00 HRS TO 06:00 HRS ON21/01/97

PHSE	CLS	OP	FROM	TO	HRS	DEPTH	DESCRIPTION-ACTIVITY
S1	TD	RW	00:00	02:00	2.0	48	Open hole to 12 1/4" 39m to 44m
S1	PD	S	02:00	02:30	.5	48	Survey at 31m 0.25deg
S1	TD	RW	02:30	03:00	.5	48	Open hole to 12 1/4" 44m to 48m
S1	PD	D	03:00	06:00	3.0	48	Drill 12 1/4" hole 48m to 130m.

Basic Data					
DRILLING CO. :	OD&E	DEPTH m :	30.0	HOLE SIZE("):	12.25
RIG :	Rig 30	PROGRESS m :	11.0	LAST CSG SIZE("):	16
GL ABOVE MSL (m) :	49.0	DAYS FROM SPUD :	1.15	SHOE DEPTH m :	12.00
ELEV RT AGL (m) :	4.3	DAYS +/- CURVE :		LEAK-OFF SG :	
				TOT PERS ON SITE :	34
				AFE COST \$:	1,076,300
				DAILY COST \$:	36,325
				CUM COST \$:	279,152

Gas and General Data		WEATHER :	
MAX GAS % :		Fine and clear	
B/G GAS % :		STATUS @ 0600 :	Drill 12 1/4" hole at 34m.

Bit Data for Bit #1		IADC #1 1 6	
BIT SIZE ("):	12.25	AVE WOB (k-lbs) :	5
MANUFACTURER :	RE	AVE RPM :	80
TYPE :	HP11	FLOW (gpm) :	176
SERIAL # :	DJ4265	PUMP PRESS. (psi):	80
DEPTH IN (m RT) :	12	NOZZ n/32" :	18 18 18
DEPTH OUT (m RT) :		HHSI (psi) :	0
Calculated over last 24 hrs		Calculated over the bit run	
METRAGE (m) :	11	CUM. METRAGE (m) :	18
ON BOTTOM HRS :	9.0	CUM. ON BOT. HRS :	12.5
ROTATING HRS :		CUM. ROT. HRS :	
ROP m/h :	1.2	ROP m/h :	1.4

Mud Data		DAILY COST \$:163		CUM COST \$:1,591	
Chk #:3 / TYPE: Gel - Spud		Chk #:4 / TYPE: Gel - Spud			
Property	Chk3	Chk4	Property	Chk3	Chk4
SAMPLE FROM:	FL	FL	TEMP (Deg C)	24	23
TIME :	1500	2230	SOLIDS (%vol) :	0.2	1.4
WEIGHT(ppg) :	8.4	8.6	H2O (%vol) :	99.8	98.6
DEPTH m :	27	30	OIL (%vol) :	0	0
VIS. (sec/qt):	27	72	SAND(%vol) :	Tr	Tr
PV (cp) :	0	10	MBT (ppb eq.) :	0	27
YP (lb/100sf) :	0	50	PH :	12.0	11.00
GEL10s(lb/100sf) :	0	15	Cl- (ppm) :	4500	4300
GEL10m(lb/100sf) :	0	27	K+C (ppm) :	0	0
Fann 3RPM :	0	15	HRD/CA (ppm)	80	40
Fann 6RPM :	0	18	API F. loss :	0.0	0.0

BHA Data : BHA #12			
BHA LENGTH (m) :	30.7	WT BLW JAR(k-lbs):	
HRS ON JARS :		BHA WT(k-lbs) :	
BHA DESCRIPTION :	Bit, Bit sub, 3 x 8" DC, XO		
		STRING WT(k-lbs) :	
		PICK UP WT(k-lbs) :	
		SLK OFF WT(k-lbs) :	
		TRQE MAX (ft-lbs) :	
		TRQE ON (ft-lbs) :	
		TRQE OFF (ft-lbs) :	

Bulk Stocks on site			
DRILL WATER (MT):	0	FUEL (IMT):	29
POT WATER (IMT):	0	BARITE (MT) :	24
		CEMENT (MT):	25
		GEL (MT):	0

Survey (last 4 points)		Tool Type :	
MD (m)	TVD (m)	INCL (deg)	AZ (deg)
		V. SECT (m)	N/S (m)
			WE/W (m)

Current Pump Data and Slow Circulating Rate Data									
Pump Data - last 24 hrs						SCR Data			
#	TYPE	FLNR	SPM	EFF (%)	Flow (gpm)	SPR (psi)	SPM	SPR	DEPTH
1	GD-PZ-8	6.00	60	95.0	176	80			
2	GD-PZ-8	6.00		95.0					

Personnel on Site =34			
NAME	JOB TITLE	COMPANY	COUNT
		Halliburton	6
		IDFS	1
		Weatherford	3
Alex Bradley	Drilling Supervisor	Cultus	3
Dave Horner	Geologist	ODE	21

Drills, Permits & Inspections			
DRILL TYPE	TIMING	INSPECTIONS	TIMING
TRIP DRILL		LAST CSG PRESS TEST	
FIRE		SAFETY MEETING	18/1/97
PIT DRILL		SAFETY INSPECTION	18/1/97
INCIDENT		DAYS SINCE LAST BOP TES	
		LAST BOP TEST	

Casing					
CSG ID	PHASE	CSG SHOE MD	CSG SHOE TVD		
TYPE	LENGTH (m)	CSG ID	WEIGHT	GRADE	THREAD

Formation Tops		
FORMATION	TOP (m)	BIT

ACTIVITY FOR PERIOD 00:00 HRS TO 24:00 HRS ON 19/01/97

PHSE	CLS	TOP	FROM	TO	HRS	DEPTH	DESCRIPTION/ACTIVITY
S1	PD	D	00:00	03:00	3.0	27	Drill 12 1/4" hole 19m to 27m. Hole washing out to mousehole - no circulation up conductor.
S1	TD	CIR	03:00	04:00	1.0	27	Spot havis mud and LCM. Hole still washing out.
S1	TD	CIR	04:00	05:00	1.0	27	Pull mousehole. Attempt to plug communication with sacks - no success.
S1	TD	TO	05:00	05:30	.5	27	POOH and stand back DC's.
S1	TD	HT	05:30	06:00	.5	27	Clean out mousehole.
S1	TD	HT	06:00	07:30	1.5	27	Lay out mousehole. RIH w/- 2jts DP to 18m. Rig up Halliburton.
S1	TD	CM	07:30	08:00	.5	27	Pump 5BBL water. Mix and pump 44sx "G" cement at 15.8ppg (8BBL slurry). Displace with 0.5BBL water and flush lines. CIP 0755hrs.
S1	TD	RD	08:00	08:30	.5	27	Rig down Halliburton. POOH w/- drill pipe. Pull kelly and rathole and hang in derrick.
S1	TD	WO	08:30	12:00	3.5	27	Wait on cement.
S1	TD	HT	12:00	15:30	3.5	27	Re-install rathole. Clean out mousehole and re-install sock.
S1	TD	HT	15:30	17:00	1.5	27	RIH and tag cement at 12.1m. Break out 8" DC and lay down same.
S1	TD	D	17:00	18:00	1.0	27	Drill cement 12m to 27m.
S1	PD	D	18:00	24:00	6.0	30	Drill 12 1/4" hole 27m to 30m.

ACTIVITY FOR PERIOD 00:00 HRS TO 06:00 HRS ON 20/01/97

PHSE	CLS	TOP	FROM	TO	HRS	DEPTH	DESCRIPTION/ACTIVITY
S1	PD	D	00:00	05:00	5.0	34	Drill 12 1/4" hole 30m to 34m
S1	PD	TO	05:00	06:00	1.0	34	POOH to pick up insert bit - F2.

Basic Data					
DRILLING CO. :	OD&E	DEPTH m :	19.0	HOLE SIZE("):	12.25
RIG :	Rig 30	PROGRESS m :	7.0	LAST CSG SIZE("):	16
GL ABOVE MSL (m) :	49.0	DAYS FROM SPUD :	0.15	SHOE DEPTH m :	12.00
ELEV RT AGL (m) :	4.3	DAYS +/- CURVE :		LEAK-OFF SG :	
				TOT PERS ON SITE :	34
				AFE COST \$:	1,076,300
				DAILY COST \$:	242,827

Gas and General Data		WEATHER :	
MAX GAS % :		Fine and clear	
B/G GAS % :		STATUS @ 0600 : Rig up Halliburton for remedial cementing of washout.	

Bit Data for Bit #1		IADC # 1 1 6						
BIT SIZE ("):	12.25	AVE WOB (k-lbs):	5					
MANUFACTURER :	RE	AVE RPM :	80					
TYPE :	HP11	FLOW (gpm) :	299					
SERIAL # :	DJ4265	PUMP PRESS. (psi):	250					
DEPTH IN (m RT) :	12	NOZZ. n/32" :	18 18 18					
DEPTH OUT (m RT) :		HHSI (psi) :	0					
Calculated over last 24 hrs		Calculated over the bit run						
METRAGE (m) :	7	CUM. METRAGE (m) :	7					
ON BOTTOM HRS :	3.5	CUM. ON BOT. HRS :	3.5					
ROTATING HRS :		CUM. ROT. HRS :						
ROP m/h :	2.0	ROP m/h :	2.0					
Bit	METRAGE	HRS	WOB	RPM	FLOW	PUMP	NOZZ	HHSI
Wear	1	7	3.5					

Mud Data					
DAILY COST \$:1,428			CUM COST \$:1,428		
Chk #1 / TYPE: Gel - Spud		Chk #2 / TYPE: Gel - Spud			
Property	Chk1	Chk2	Property	Chk1	Chk2
SAMPLE FROM:	FL	FL	TEMP (Deg C) :	21	19
TIME :	0900	2200	SOLIDS (%vol) :	1.4	0.2
WEIGHT(ppg) :	8.6	8.4	H2O (%vol) :	98.6	99.8
DEPTH m :	0	13	OIL (%vol) :	0	0
VIS. (sec/qt):	41	27	SAND(%vol) :	Tr	
PV (cp) :	6	0	MBT (ppb eq.) :	18	0
YP (lb/100sf) :	22	0	PH :	9.7	0.00
GEL10s(lb/100sf) :	11	0	Cl- (ppm) :	4300	4200
GEL10m(lb/100sf) :	15	0	K+C (ppm) :	0	0
Fann 3RPM :	11	0	HRD/CA (ppm)	80	160
Fann 6RPM :	13	0	API F. loss :	0.0	0.0

BHA Data : BHA #1			
BHA LENGTH (m) :	21.5	WT BLW JAR(k-lbs):	
HRS ON JARS :		BHA WT(k-lbs) :	
BHA DESCRIPTION :	Bit, NB Stab, 8" DC, String Stab, 8" DC, X/O		
		STRING WT(k-lbs) :	
		PICK UP WT(k-lbs) :	
		SLK OFF WT(k-lbs) :	
		TRQE MAX (ft-lbs) :	
		TRQE ON (ft-lbs) :	
		TRQE OFF (ft-lbs) :	

Bulk Stocks on site			
DRILL WATER (MT):	0	FUEL (IMT):	30
POT WATER (IMT):	0	BARITE (MT) :	24
		CEMENT (MT):	27
		GEL (MT):	0

Survey (last 4 points)		Tool Type :	
MD (m RT)	VD (m RT)	INCL (deg)	AZ (deg)
		W. SEC (m)	N/S (m)
			EW (m)

Formation Tops		
FORMATION	TOP	BIT

Casing			
CSG ID	PHASE	CSG SHO EMD	CSG SHO EVD
16.00		12	12
TYPE	LENGTH (m)	CSG ID (m)	WEIGHT (k-lbs)
1 16" Conductor pipe	12.2		
		GRADE	THREAD

ACTIVITY FOR PERIOD 00:00 HRS TO 24:00 HRS ON 18/01/97

PHSE	CLS	TOP	FROM	TO	HRS	DEPTH	DESCRIPTION/ACTIVITY
OTH	PD	RU	00:00	07:30	7.5	0	Install bell nipple and flowline. Pressure test pumps and kelly to 2000psi.
OTH	PD	RU	07:30	11:30	4.0	0	Drill 4m of rathole.
OTH	PD	RU	11:30	12:00	.5	0	POOH. Pick up new bit.
OTH	PD	RU	12:00	13:30	1.5	0	Drill rathole 4m to 6m.
OTH	PD	RU	13:30	14:30	1.0	0	POOH. Pick up motor.
OTH	PD	RU	14:30	17:30	3.0	0	Drill rathole 6m to 13m. Install sock.
OTH	PD	RU	17:30	19:30	2.0	0	Drill mousehole and install sock.
OTH	PD	RU	19:30	20:30	1.0	0	Tag bottom of conductor at 12m. Lay down motor and flush out. Make up bit to spud.
S1	PD	D	20:30	24:00	3.5	19	Spud Well. Drill 12 1/4" hole 12m to 19m