



WATER-BASED MUD REPORT No. 6

Date	24/09/2005	Depth/TVD	766 m / 766 m
Spud Date	19/09/2005	Mud Type	KCl/PHPA/Polymer
Water Depth		Activity	Drill 8-1/2" hole.

Operator : Origin Energy Report For : Seton Porter / Bryan Webb Well Name : Childer's Cove-1 Contractor : Century Drilling Ltd. Report For : Ben Hale	Field/Area : PEP 154 Description : Vertical Exploration Location : Onshore Otway Basin M-I Well No. :
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DRILLING ASSEMBLY		CASING	MUD VOLUME (bbl)	CIRCULATION DATA	
Bit Size	8.5 in HC 605s	Surface	Hole	Pump Make	National 8P-80
Nozzles	14 /5x13 / 1/32"	20in @16m (16TVD)	151.5	Pump Size	6 X 8.5in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	3.027 gal/stk
4.5 in	557 m	9.625in @545m (545TVD)	253.5	Pump stk/min	102@97%
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	627 gal/min
4.5 in	38 m	in @550m (550TVD)	405	Bottoms Up	8.1 min 1670 stk
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time	27.1 min 5616 stk
6.25 in	172 m		160	Circulating Pressure	1000 psi

MUD PROPERTIES			
Sample From		Pit@24:00	Pit@19:45
Flow Line Temp	°C	37	33
Depth/TVD	m	766/766	648/648
Mud Weight	sp.gr.	1.04@35°C	1.04@30°C
Funnel Viscosity	s/qt	47	52
Rheology Temp	°C	35	30
R600/R300		42/30	42/29
R200/R100		23/19	22/18
R6/R3		7/5	6/4
PV	cP	12	13
YP	lb/100ft²	18	16
10s/10m/30m Gel	lb/100ft²	7/9/11	5/7/8
API Fluid Loss	cc/30 min	7.0	7.5
HTHP FL Temp	cc/30 min		
Cake API/HTHP	1/32"	1/	1/
Solids	%Vol	6	4
Oil/Water	%Vol	/94	/96
Sand	%Vol	0.75	tr
MBT	lb/bbl	3	2
pH		9.5	9.7
Alkal Mud (Pm)		0.4	0.4
Pf/Mf		0.1/0.7	0.1/0.5
Chlorides	mg/l	22000	21000
Hardness Ca	mg/l	100	100
KCl	%	4.2	4
PHPA	ppb.	0.75	0.75
Sulphite	mg/l	0	0

PRODUCTS USED LAST 24 HRS		
Products	Size	Amt
KWIK SEAL FINE	40 LB BG	34
SODIUM BICARBONATE	25 KG BG	2
POTASSIUM CHLORIDE	25 KG BG	90
GLUTE 25	25 LT CN	1
DEFOAM A	25 LT CN	1
Polyplus Powder	25 KG BG	8
DUOTEC	25 KG BG	6
POLYPAC UL	25 KG BG	5

SOLIDS EQUIP	Size	Hr
DFE Shaker 1	54/54/54	8
DFE Shaker 2	54/54/54	8
D-Sander		0
D-Silter		3

REMARKS AND TREATMENT
 Circulate through gun-lines to shear mud. Drill-out with drillwater in closed system on slug pit. Displace to KCl / PHPA mud in shoe track. Increase PHPA concentration. Lower fluid loss. Increase carrying capacity. Losses due to 'possum-belly' blockage. Sub-surface losses add LCM directly to suction pit.

REMARKS
 Pressure test BOPs. M/u BHA. Repace pump module. RIH. TOC at 523 m. Drill-out. Drill new hole. LOT to 1.63 sg. EMD. Drill ahead.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG (bbl)	SOLIDS ANALYSIS (%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS
Rig Up/Service		Oil Added	NaCl	np/na Values
Drilling		Water Added	KCl	kp/ka (lb*s^n/100ft²)
Tripping		Mud Received	Low Gravity	Bit Loss (psi / %)
Non-Productive Tim		Dumped	Bentonite	Bit HHP (hbp / HSI)
BOP NU		Shakers	Drill Solids	Bit Jet Vel (m/s)
		Formation	Weight Material	Ann. Vel DP (m/min)
		Desilter	Chemical Conc	Ann. Vel DC (m/min)
		Desander	Inert/React	Crit Vel DP (m/min)
			Average SG	Crit Vel DC (m/min)
			Carb/BiCarb (m mole/L)	ECD @ 766 (sp.gr.)

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Mike McKay	02-82118553		A\$ 6,691.82	A\$ 21,171.82

