



WATER-BASED MUD REPORT No. 12

Date	30/09/2005	Depth/TVD	2545 m / 2545 m
Spud Date	19/09/2005	Mud Type	KCl/PHPA/Polymer
Water Depth		Activity	TD wiper trip

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. :

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)	523.4	Pump Size	6 X 8.5in
Drill Pipe Size	Length	Intermediate	Active Pits	Pump Cap	3.027 gal/stk
4.5 in	2336 m	9.625in @545m (545TVD)	378.6	Pump stk/min	85@97%
Drill Pipe Size	Length	Intermediate	Total Circulating Vol	Flow Rate	500 gal/min
4.5 in	38 m	in @m (TVD)	902	Bottoms Up	34.5 min 5688 stk
Drill Collar Size	Length	Production or Liner	In Storage	Total Circ Time	75.8 min 12502 stk
6.25 in	172 m		33	Circulating Pressure	1860 psi

MUD PROPERTIES			
Sample From		Pit@21:00	Pit@13:30
Flow Line Temp	°C	62	59
Depth/TVD	m	2545/2545	2506/2506
Mud Weight	sp.gr.	1.15@40°C	1.15@45°C
Funnel Viscosity	s/qt	59	60
Rheology Temp	°C	48	48
R600/R300		83/59	85/60
R200/R100		47/33	48/33
R6/R3		7/4	7/4
PV	cP	24	25
YP	lb/100ft²	35	35
10s/10m/30m Gel	lb/100ft²	5/11/13	5/11/13
API Fluid Loss	cc/30 min	4.0	4.2
HTHP FL Temp	cc/30 min		
Cake API/HTHP	1/32"	1/	1/
Solids	%Vol	8.6	8.6
Oil/Water	%Vol	/91.4	/91.4
Sand	%Vol	0.25	0.3
MBT	lb/bbl	7.5	7.5
pH		8.6	8.7
Alkal Mud (Pm)		0.4	0.35
Pf/Mf		0.05/0.9	0.05/0.8
Chlorides	mg/l	26000	26000
Hardness Ca	mg/l	280	280
KCl	%	4.2	4.3
PHPA	ppb.	0.7	0.8
Sulphite	mg/l	180	20

PRODUCTS USED LAST 24 HRS		
Products	Size	Amt
M-I BAR	25 KG BG	104
POTASSIUM CHLORIDE	25 KG BG	43
GLUTE 25	25 LT CN	4
Polyplus Powder	25 KG BG	1
DUOTEC	25 KG BG	2
OS-1	25 KG BG	2

SOLIDS EQUIP	Size	Hr
DFE Shaker 1	140/140/110	21
DFE Shaker 2	175/175/175	21
D-Sander		0
D-Silter		21

MUD PROPERTY SPECIFICATIONS	
Weight	1.08 -1.13
Viscosity	35 - 50
Filtrate	5.0 - 7.0

REMARKS AND TREATMENT	REMARKS
Add OS-1 for corrosion control. Add biocide prior yo wiper trip. Build slug.	Drill ahead to total depth at 2545 m.

TIME DISTR	Last 24 Hrs	MUD VOL ACCTG (bbl)	SOLIDS ANALYSIS (%/lb/bbl)	MUD RHEOLOGY & HYDRAULICS
Rig Up/Service		Oil Added	0	np/na Values
Drilling	19.5	Water Added	160	kp/ka (lb*s^n/100ft²)
Tripping	3.5	Mud Received	0	Bit Loss (psi / %)
Non-Productive Tim		Shakers	120	Bit HHP (hhp / HSI)
Condition Hole	1	Formation	0	Bit Jet Vel (m/s)
		Desilter	40	Ann. Vel DP (m/min)
		Desander	0	Ann. Vel DC (m/min)
		Dumped	30	Crit Vel DP (m/min)
				Crit Vel DC (m/min)
				ECD @ 2545 (sp.gr.)

M-I ENGR / PHONE	RIG PHONE	WAREHOUSE PHONE	DAILY COST	CUMULATIVE COST
Mike McKay	02-82118553		A\$ 2,801.51	A\$ 66,811.16

