



WATER-BASED MUD REPORT No. 14

| | | | |
|--------------------|------------|------------------|--------------------|
| Date | 02/10/2005 | Depth/TVD | 2616 m / 2616 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. : |
|--|--|

| DRILLING ASSEMBLY | | CASING | MUD VOLUME (bbl) | CIRCULATION DATA | | |
|-------------------|------------------|------------------------|-----------------------|----------------------|----------------|----------------|
| Bit Size | 8.5 in HC 605S | Surface | Hole | Pump Make | National 8P-80 | National 8P-80 |
| Nozzles | 14 /5x13 / 1/32" | 20in @16m (16TVD) | 536.5 | Pump Size | 6 X 8.5in | 6 X 8.5in |
| Drill Pipe Size | Length | Intermediate | Active Pits | Pump Cap | 3.027 gal/stk | 3.027 gal/stk |
| 4.5 in | 2407 m | 9.625in @545m (545TVD) | 409.5 | Pump stk/min | 82@97% | 83@97% |
| Drill Pipe Size | Length | Intermediate | Total Circulating Vol | Flow Rate | | |
| 4.5 in | 38 m | in @2545m (2545TVD) | 946 | Bottoms Up | 35.3 min | 5824 stk |
| Drill Collar Size | Length | Production or Liner | In Storage | Total Circ Time | 79.5 min | 13112 stk |
| 6.5 in | 172 m | | 103 | Circulating Pressure | 1500 psi | |

| MUD PROPERTIES | | | |
|------------------|-----------|-----------|-----------|
| Sample From | | Pit@24:00 | Pit@12:00 |
| Flow Line Temp | °C | 65 | n/a |
| Depth/TVD | m | 2616/2616 | 2454/2454 |
| Mud Weight | sp.gr. | 1.16@40°C | 1.15@35°C |
| Funnel Viscosity | s/qt | 62 | 78 |
| Rheology Temp | °C | 48 | 48 |
| R600/R300 | | 79/57 | 85/60 |
| R200/R100 | | 45/30 | 48/33 |
| R6/R3 | | 7/4 | 7/4 |
| PV | cP | 22 | 25 |
| YP | lb/100ft² | 35 | 35 |
| 10s/10m/30m Gel | lb/100ft² | 6/10/12 | 6/12/14 |
| API Fluid Loss | cc/30 min | 4.2 | 4.0 |
| HTHP FL Temp | cc/30 min | | |
| Cake API/HTHP | 1/32" | 1/ | 1/ |
| Solids | %Vol | 9.5 | 8.9 |
| Oil/Water | %Vol | /90.5 | /91.1 |
| Sand | %Vol | 0.5 | 0.25 |
| MBT | lb/bbl | 10 | 7.5 |
| pH | | 9.3 | 9.5 |
| Alkal Mud (Pm) | | 0.5 | 0.4 |
| Pf/Mf | | 0.1/1.1 | 0.05/1.0 |
| Chlorides | mg/l | 27000 | 26000 |
| Hardness Ca | mg/l | 200 | 280 |
| KCl | % | 5.3 | 4.7 |
| PHPA | ppb. | 0.9 | 0.75 |
| Sulphite | mg/l | 20 | 80 |

| PRODUCTS USED LAST 24 HRS | | |
|---------------------------|----------|-----|
| Products | Size | Amt |
| CAUSTIC SODA (DRY) | 25 KG DM | 2 |
| SODIUM BICARBONATE | 25 KG BG | 1 |
| POTASSIUM CHLORIDE | 25 KG BG | 125 |
| GLUTE 25 | 25 LT CN | 2 |
| Polyplus Powder | 25 KG BG | 5 |
| DUOTEC | 25 KG BG | 5 |
| POLYPAC UL | 25 KG BG | 15 |
| OS-1 | 25 KG BG | 4 |

| SOLIDS EQUIP | Size | Hr |
|--------------|-------------|----|
| DFE Shaker 1 | 140/140/110 | 12 |
| DFE Shaker 2 | 175/175/175 | 12 |
| D-Sander | | 0 |
| D-Silter | | 12 |

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

| | |
|--|---|
| REMARKS AND TREATMENT Build replacement volume. Costs for Defoam A added to cumulative costs. Maximum BHT from logs = 95.5 deg. C. Unaccounted for losses assumed sub-surface. | REMARKS No primary objective seen on e-logs. RIH. Wash and ream. Slough returns. Drill ahead. |
|--|---|

| 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 | 12 | Water Added | 392 | kp/ka (lb*s^n/100ft²) |
| Tripping | 12 | Mud Received | 0 | Bit Loss (psi / %) |
| Non-Productive Tim | | Shakers | 80 | Bit HHP (hhp / HSI) |
| | | Formation | 102 | Bit Jet Vel (m/s) |
| | | Desilter | 18 | Ann. Vel DP (m/min) |
| | | Desander | 0 | Ann. Vel DC (m/min) |
| | | Dumped | 0 | Crit Vel DP (m/min) |
| | | | Average SG | Crit Vel DC (m/min) |
| | | | Carb/BiCarb (m mole/L) | ECD @ 2616 (sp.gr.) |

| | | | | |
|-------------------------|------------------|------------------------|-------------------|------------------------|
| M-I ENGR / PHONE | RIG PHONE | WAREHOUSE PHONE | DAILY COST | CUMULATIVE COST |
| Mike McKay | 02-82118553 | | A\$ 6,786.27 | A\$ 74,369.59 |

