# DAILY DRILLING REPORT

## ESSENTIAL PETROLEUM EXPLORATION Pty Ltd

Essential Petroleum Exploration Pty Ltd

| | | | |
|---|---|---|---|
| **WELL:** | AYRFORD-1 | **DATE:** | 18/04/08 |
| **PERMIT:** | PEP 168 | **REPORT No:** | DR 12 |
| **RIG:** | ADS Rig 6 | **D.F.S.** | 12 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **DEPTH 2400 Hrs:** | 1622 TD | **OPERATIONS at 0600 Hrs:** | Rih for plug & abandon | | | | |
| **TVD:** | | **FORMATION:** | | | | | |
| **24 HR PROG.:** | | **LAST CASING:** | 9 5/8 | AT | 558 | **SHOE L.O.T.:** | 12.4 |
| **HOLE SIZE:** | 8 1/2 | **ELEV:** | 74 Amsl | **RT - GL:** | 4.3 | **MAASP:** | 304psi |

| FROM | TO | HOURS | OPERATIONS |
|---|---|---|---|
| 0-0 | 2000 | 20.0 | Wire Line Logging - RFT's |
| 2000 | 2030 | 0.5 | Hold Pre-job safety meeting - lay out Drill Collars |
| 2030 | 2400 | 3.5 | L/d Collars - break Kelly |
| | | | HS&E No Incidents |
| | | 24.0 | |

**OPERATIONS TO 0600 HRS:** L/d bha - 0200
Rih o/e dp - pick up singles

**PROGRAMME NEXT 24 HRS:** Set abandon plugs - woc test shoe plug - set surface plug - release rig

| | | | | |
|---|---|---|---|---|
| **WELL COSTS (A$)** | **DAILY COST:** | **$163,508.00** | **CUMULATIVE:** | **$1,308,537** |

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| MUD PROPERTIES | | ADDITIVES |
|---|---|---|
| DENSITY(SG) | 9.2 | Bio-0 |
| VISCOSITY(Secs) | 37 | Gel- 0 |
| pH | 8.5 | KCL-0 |
| PV/YP | 13/10 | XAN-0 |
| GELS 10/10 | 1/2 | PHPA-0 |
| WL API (cc/30min) | 6.5 | SO/SU- 0 |
| WL HTHP(cc/30min) | | PAC-R-0 |
| CAKE(mm) | 1 | CACO3-0 |
| SOLIDS % | 5.6 | |
| SAND % | .25 | |
| CHLORIDES(mg/l) | 10500 | |
| KCL % | 2 | |
| MBT | 7.5 | |
| TEMP °C | 36 | |
| HOLE VOL(bbl) | 379 | |
| SURF VOL(bbl) | 290 | |
| LOSSES(bbl/hr) | | |
| MUD Co | RMR | |
| MUD TYPE | KCL/PHPA | |

| SOLIDS CONTROL | | | |
|---|---|---|---|
| | gpm | uf | hrs |
| DESILTER | | | nil |
| DESANDER | | | nil |
| CENTRIFUGE 1 | | | nil |
| CENTRIFUGE 2 | | | nil |
| | | | |
| SHAKERS | 1 | 2 | |
| SCREENS | 2X84-2X105 | 2X84-2X106 | |
| **PUMPS** | **1** | **2** | **3** |
| TYPE | SB 700 | NP 600 | |
| STROKE(in) | 16 | 8 | |
| LINER(in) | 6.5 x 2.75 | 5.5 | |
| SPM | | 0 | |
| GPM | | | |
| SPP(psi) | | | |
| AV-DP(m/min) | | | |
| AV-DC(m/min) | | | |
| SCR - spm | | - | |
| SCR - spm | | - | |

| SAFETY/BOP/DRILLS | |
|---|---|
| ACCIDENT FREE DAYS | 301 |
| LAST BOP DRILL | 16/4 |
| LAST FIRE DRILL | |
| LAST H2S DRILL | |
| LAST BOP TEST | |
| BOP TEST DUE | 26/4 |
| **FORMATION DATA** | |
| DEPTH | |
| TRIP GAS (%) | |
| CONN. GAS (%) | |
| B'GRD GAS (%) | |
| PORE PRESS (ppg) | |
| ECD (ppg) | |
| LITHOLOGY | |

| BIT DATA | | |
|---|---|---|
| BIT No. | | |
| SIZE (in) | | |
| TYPE | | |
| IADC CODE | | |
| SERIAL No. | | |
| NOZZLES(mm) | | |
| DEPTH IN (m) | | |
| DEPTH OUT (m) | | |
| DRILLED (m. cum) | | |
| HOURS (cum.) | | |
| GRADE | | |
| AVGE ROP (m/hr) | | |
| WOB (mt) | | |
| RPM | | |
| JET VEL (m/sec) | | |
| HHP @ BIT | | |

| BHA DETAILS | BHA No. | |
|---|---|---|
| **TOOL** | **OD (in)** | **Length (m)** |
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| **BHA LENGTH (m)** | | 0.00 |
| **BHA WEIGHT (Klbf)** | | 48280 |
| **STRING WEIGHT (Klbf)** | | 105 |

| TIME ANALYSIS | | |
|---|---|---|
| | **HRS** | **CUM.** |
| 1. MOVE RIG | | |
| 2. RIG UP | | 82.0 |
| 3. DRILLING | | 119.0 |
| 4. TRIP | | 12.5 |
| 5. WIPER TRIP | | 20.0 |
| 6. SURVEY | | 5.5 |
| 7. CIRC./COND | | 10.0 |
| 8. HANDLE BHA | 4.0 | 9.5 |
| 9. CASE/CEMENT | | 17.5 |
| 10. WELLHEAD | | 3.5 |
| 11. BOPS/DIV | | 19.5 |
| 12. LOT | | 1.0 |
| 13. CORING | | |
| 14. LOGGING | 20.0 | 25.5 |
| 15. REAM/WASH | | 7.5 |
| 16. FISH/STUCK | | |
| 17. LOSS CIRC | | |
| 18. KICK CONTROL | | |
| 19. SIDETRACK | | |
| 20. RIG REPAIR | | 1.0 |
| 21. WELL TEST | | |
| 22. WO WEATHER | | |
| 23. WAIT - CMT | | 17.5 |
| 24. ABD./SUSPEND | | |
| 25. RIG SERVICE | | 3.0 |
| 26. SLIP/CUT LINE | | |
| 27. OTHER | | 1.5 |
| COMPLETION | | |
| **TOTAL (HRS)** | 24.0 | 356.0 |
| | | 356.0 |

| SURVEYS: | DEPTH | DEVIATION | AZIMUTH | TVD | COMMENTS |
|---|---|---|---|---|---|
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| DRILLING TOOLS | SERIAL No. | CUM. HOURS |
|---|---|---|
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| | | |

| DRILLING DATA | |
|---|---|
| DRAG - UP (Klbf) | |
| DRAG - DOWN (Klbf) | |
| TORQUE-On Bottom (Kft.lb) | N/R |
| TORQUE-Off Bottom (Kft.lb) | N/R |
| | |

| WEATHER | WEATHER STATE | RAINFALL (mm) | TEMP.(°C) | VISIBILITY (km) | WIND SPEED(kts) | OTHER |
|---|---|---|---|---|---|---|
| | SHOWERS | | 15-25 | good | 0-5 | COOL |

| BULK STOCK | GEL(sx) | BARITE(sx) | CEMENT(sx) | DRILLWATER | POT WATER | DIESEL FUEL |
|---|---|---|---|---|---|---|
| | | | | BORE | | 10,000 |

| PERSONNEL ON RIG | |
|---|---|
| OPERATOR | 3 |
| DRILLING CONTRACTOR | 18 |
| SERVICE COMPANYS | |
| Mud Logging Crew | 3 |
| Mud Engineer | 1 |
| Cementers | 2 |
| Electric Logging Crew | 3 |
| DST Crew | |
| OTHERS | |
| **TOTAL** | 30 |

| TRANSPORTATION | | |
|---|---|---|
| **TRUCKS** | **LOAD** | **HOURS** |
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| COMMENTS/REQUIREMENTS |
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| **SUPERVISOR** | D Hair | **ENGINEER** | GR | **RIG MANAGER** | S.Kinnealy |