



Essential
Petroleum
Resources
Limited

DAILY DRILLING REPORT

RIG : Hunt Energy Rig-2
PERMIT : PEP 152, Otway Basin

DATE: 19-Jun-04
REPORT No: 12
D.F.S: 10.5
SHOE F.I.T: 12.5ppg

WELL NAME: KILLARNEY EPRL-1

STATUS @ 2400 HRS: POH to P&A cement plug-2 depth.

DEPTH - 2400 HRS: 1,640 m
DEPTH - PREVIOUS: 1,640 m
24 HR PROGRESS: 0 m
SAFETY MEETINGS: Crews held pre-Tour Safety meetings & 2x JSA's; 1x Cementing Safety Meeting.

FORMATION: Eumerella Fm
HOLE SIZE: 8.1/2"
ACCIDENTS: Nil

RT - GL (m): 3.9 m
SHOE DEPTH: 255.8 mRT
LAST CASING: 9.5/8" Surface

| MUD PROPERTIES | | ADDITIVES |
|--------------------|-------------|-----------|
| DENSITY (ppg) | 9.50 | |
| VISCOSITY | 43 | |
| pH | 8.5 | |
| PV / YP | 15 / 16 | |
| GELS 10s/10m | 2 / 4 | |
| WL API / FC (cc) | 6.0 | |
| SOLIDS % | 7.0 | |
| SAND % | Trace | |
| CHLORIDES | 22,000 | |
| KCL (% WT) | 4.10 | |
| MBT / PHPA (ppb) | 10 / 0.9 | |
| Pm Pm/Mf | 0 0.05/0.75 | |
| TEMP (degC) | - | |
| HOLE VOL (bbls) | 342 | |
| SURFACE VOL (bbls) | 350 | |
| HOLE LOSSES (bbls) | 6 | |
| MUD CO | RMN | |
| MUD ENGINEER | N. Kyberd | |

| SOLIDS CONTROL | | |
|---|-----------|---------|
| UNIT | GPM / HRS | UF / OF |
| DESILTER | | |
| DESANDER | | |
| MUDCLEANER | | |
| CENTRIFUGE | | |
| SHAKER SCREENS: 1x S110, 1x S84, 1x S55 | | |

| PUMPS | 1 | 2 |
|------------------|---------|--------|
| TYPE | TSM-500 | DB-550 |
| STROKE (") | 16 | 16 |
| LINER (") | 5 1/2 | 5 1/2 |
| SPM | | |
| PRESSURE | | |
| GPM (97% eff) | | |
| AV (DP - ft/min) | | |
| AV (DC - ft/min) | | |
| SPR (P1 / P2) | | |
| SPR PRESS | | |

| INVENTORY | |
|-------------|-----------|
| BARITE | 350 sx |
| GEL | 42 sx |
| CEMENT | 5 tonnes |
| SALT | 0 sx |
| KCL | 91 sx |
| DRILLWATER | 100 % |
| DIESEL FUEL | 7,000 lts |

| DRILLS / BOPS | |
|---------------------|-----------|
| LAST BOP DRILL | 16-Jun-04 |
| LAST FIRE DRILL | |
| LAST ABN.RIG DRILL | |
| LAST BOP TEST | 12-Jun-04 |
| NEXT BOP TEST | 26-Jun-04 |
| DAYS SINCE LAST LTA | 526 |

| BIT DATA | |
|------------------|--------------------|
| BIT No. | 3 |
| SIZE (ins) | 8.1/2" |
| TYPE | CH04MS |
| IADC CODE | 4-1-7 |
| SERIAL No. | 172489 |
| NOZZLES | 3 x 13 |
| OUT (m) | 1,640 |
| IN (m) | 1,321 |
| DRILLED (m) | 319.0 |
| HOURS | 30 |
| CONDITION | 1-2-WT-G-E-I-NO-TD |
| AVG ROP (m/hr) | 10.63 |
| WOB (x1000 lbs) | 20 - 25 |
| RPM | 100 |
| JET VEL (ft/sec) | 282 |
| HHP @ BIT (HSI) | 2.33 |

| SURVEYS | | |
|-------------|-----------|---------|
| DEPTHS | Inc (deg) | Azimuth |
| MD/ (TVD) | | |
| 246 | 1.25 | - |
| 451 | 1.00 | - |
| 697 | 0.50 | - |
| 961 | 2.00 | - |
| 1,206 | 2.00 | - |
| 1,309 | 1.25 | - |
| 1,628 | 2.50 | - |

| FORMATION DATA | |
|----------------|--|
| TRIP GAS (%) | |
| CONN.GAS (%) | |
| B.GAS (%) | |
| P.PRESS (ppg) | |
| ECD (ppg) | |

| TIME ANALYSIS | |
|---------------------|-----------|
| 1. MOVE RIG | |
| 2. RIG UP | |
| 3. DRILLING | |
| 4. BIT TRIP | |
| 5. WIPER TRIP | |
| 6. SURVEY | |
| 7. CIRC / COND | 0.5 |
| 8. CHANGE BHA | 4.5 |
| 9. CASE & CEMENT | |
| 10. WELLHEAD | |
| 11. BOP'S | |
| 12. L.O.T. | |
| 13. CORING | |
| 14. LOGGING | 12 |
| 15. REAM / WASH | |
| 16. FISH / STUCK | |
| 17. LOSS CIRC | |
| 18. KICK CONTROL | |
| 19. SIDETRACK | |
| 20. REP. SUBSURFACE | |
| 21. REP. SURFACE | |
| 22. WELL TEST | |
| 23. W.O. WEATHER | |
| 24. WAIT - OTHER | |
| 25. ABANDON / SUSP | 7 |
| 26. RIG DOWN | |
| 27. W.O. CEMENT | |
| 28. DRILL CEMENT | |
| 29. RIG SERVICE | |
| 30. SLIP & CUT LINE | |
| TOTAL | 24 |

| | | | |
|------------------|-------------------------|-------------|-------------------|
| BHA.: | | | |
| | | | |
| | | | |
| | | | |
| BHA WEIGHT : | lbs | STRING WT.: | lbs |
| | (buoyed weight) | | (buoyed weight) |
| DP RATING : | lbs - 'G' Grade | MARGIN : | 0 lbs @ 75% |
| DP RATING : | 595,000 lbs - 'S' Grade | MARGIN : | 446,250 lbs @ 75% |
| TORQUE ON BTM : | ft.lbs | DRAG UP : | lbs |
| TORQUE OFF BTM : | ft.lbs | DRAG DOWN : | lbs |

CONTINUED ../2

END OF REPORT