



FORMATION EVALUATION LOG

WELL : DUNBAR-1 DW1



COMPANY ORIGIN ENERGY
 RIG OD&E-30
 AREA OTWAY BASIN
 COUNTRY VICTORIA, AUSTRALIA
 LOCATION 38° 32' 53.79" S 142° 54' 23.11" E
 GROUND LVL 77.2m (AMSL)
 RT HEIGHT 81.8m (AMSL)
 DEPTH REF ROTARY TABLE

SPUD DATE 19-03-2001
 TD DATE 23-03-2001
 TD DRILLER 1636.0mRT
 TD WIRELINE 1635.7mRT
 LOGGED FROM 1180.0mRT
 LOGGED TO 1636.0mRT
 STATUS CASSED & SUSPENDED

WELL CONFIGURATION

| BIT SIZE (mm) | HOLE DEPTH (m) | CASING SIZE (mm) | CASING DEPTH (m) |
|---------------|----------------|------------------|------------------|
| 152mm | 1636m | 178mm | 1209.8m |
| | | 73mm | 1634.5m |

LOGGING ENGINEERS

ALAN DUNN
 DERICK ZURCHER

DEPTH SCALE 1/ 500

SYMBOLS

| | | | | | |
|--|---|--|----------------|--|-----------|
| | NEW BIT RUN | | CORED INTERVAL | | NO SHOW |
| | NEW CORE BIT RUN | | DST INTERVAL | | WEAK SHOW |
| | CASING SHOE | | | | FAIR SHOW |
| | LINER HANGER | | | | GOOD SHOW |
| | Recovered SIDEWALL CORES Not Recovered | | | | |

ABBREVIATIONS

| | |
|------------------------|-------------------------------|
| NB NEW BIT | DS DIRECTIONAL SURVEY |
| NCB NEW CORE BIT | WT WIPER TRIP |
| RRB RE-RUN BIT | POH PULL OUT OF HOLE |
| CS CASING SHOE | RIH RUN IN HOLE |
| SWC SIDE WALL CORE | WOW WAIT ON WEATHER |
| EL ELECTRIC LOG | LAT LOGGED AFTER TRIP |
| WOB WEIGHT ON BIT | LCM LOST CIRCULATION MATERIAL |
| RPM REVS PER MINUTE | DC DEPTH CORRECTION |
| PP PUMP PRESSURE | DST DRILL STEM TEST |
| SPM STROKES PER MINUTE | RMG REAMING |
| CR CIRCULATED RETURNS | ML MUD LOSSES |
| PR POOR RETURNS | FR FLOW RATE |
| NR NO RETURNS | FC FLOW CHECK |
| TG TRIP GAS | BR BIT RUN |
| CG CONNECTION GAS | |
| WTG WIPER TRIP GAS | |

MUD DATA

| | |
|------------------------|---------------------|
| W WEIGHT | lb/gal |
| MG MUD GRADIENT | psi/ft |
| V VISCOSITY | s/qt |
| PV PLASTIC VISCOSITY | Cp |
| YP YIELD POINT | lb/cf2 |
| GEL GEL STRENGTH | lb/cf2 |
| pH ACIDITY | |
| F FILTRATE | cm ³ /30 |
| CK CAKE THICKNESS | in/32 |
| S SALINITY | kg/m ³ |
| SD SAND CONTENT | % |
| O OIL CONTENT | % |
| WL WATER LOSS | cm ³ /30 |
| SOL SOLIDS CONTENT | % |
| pF FILTRATE ALKALINITY | % |
| GYP GYPSUM CONTENT | lb/bbl |

| | | | | | | | | | | | | | | | | | |
|--|--------------|--|----------------|--|-----------------|--|-------------|--|---------------|--|--------------|--|--------------|--|----------------|--|--------------|
| | CLAYSTONE | | MEDIUM SST | | LIMESTONE | | GYPSUM | | TUFF | | FERRUGINOUS | | CALCAREOUS | | GLAUCONITE | | MICROFOSSILS |
| | SILTSTONE | | FINE SANDSTONE | | DOLOMITIC LIMES | | CEMENT | | VOLCANIC ROCK | | FORAMINIFERA | | DOLOMITIC | | MCACEOUS | | FOSSILS |
| | CONGLOMERATE | | VF SANDSTONE | | DOLOMITE | | HALITE | | IGNEOUS ROCK | | BRYOZOA | | CARBONACEOUS | | PYRITE | | CONCRETIONS |
| | COARSE SST | | BRECCIA | | COAL | | CALCARENITE | | METAMORPHICS | | FELDSPAR | | CHERTY | | BROKEN FOSSILS | | SIDERITE |

| ROP min/m | | DEPTH (m) (mDRPT) | SIDEWALLS | CUTTINGS | LITH | OIL SHOWS | GFW | TOTAL GAS Units | | CHROMATOLOG(ppm) | | | BITS | COMMENTS |
|-----------|----|-------------------|-----------|----------|------|-----------|-----|-----------------|------|------------------|-----|-----|------|----------|
| 0 | 10 | | | | | | | 0 | 100 | C1 | IC4 | C2 | | |
| 0 | 10 | 0 | | | | | | 0 | 100 | | | | | |
| 10 | 20 | 10 | | | | | | 100 | 2100 | | | | | |
| 20 | 40 | 20 | | | | | | 0 | 100 | | | | | |
| | | 1150 | | | | | | | | 100 | 1K | 10K | | |
| | | 1175 | | | | | | | | | | | | |

DUNBAR1-DW1 SPURRED
 @ 16:00 HRS ON 19-03-2001