



VELSEIS PTY LTD

WELL SURVEY CALCULATIONS Page 3

Company : GAS & FUEL EXPLORATION
 Well : PINE LODGE #1
 Elevations : Datum : 0.0 Ground : 51.6 Kelly : 57.3

Latitude : 037 58 25.44
 Longitude : 141 21 41.60

Survey date : 29-AUG-90
 Survey units : METRES
 Times in milliseconds.

SONIC DRIFT

| | Geophone depth | | Check shot times | | Check shot interval | | Sonic Int. time | Interval sonic drift | | Cumulative drift msec |
|----------------------|----------------|--------|------------------|-------------|---------------------|-------|--------------------|----------------------|------|--------------------------|
| | Kelly | Datum | Average | Below datum | Distance | Time | | usec/m | msec | |
| DATUM | 51.7 | -5.6 | 30.0 | | | | | | | |
| | 57.3 | 0.0 | 32.8 | 0.0 | 272.7 | 133.0 | | | | |
| | 330.0 | 272.7 | 165.8 | 133.0 | 180.1 | 77.1 | 80.8 | -20.54 | -3.7 | -3.7 |
| | 510.1 | 452.8 | 242.9 | 210.1 | 134.9 | 56.5 | 57.1 | -4.45 | -0.6 | -4.3 |
| | 645.0 | 587.7 | 299.4 | 266.6 | 200.1 | 78.1 | 82.7 | -22.99 | -4.6 | -8.9 |
| | 845.1 | 787.8 | 377.5 | 344.7 | 183.9 | 67.5 | 70.1 | -14.14 | -2.6 | -11.5 |
| PEBBLE POINT FMATION | 1029.0 | 971.7 | 445.0 | 412.2 | 50.9 | 14.0 | 14.8 | -15.72 | -0.8 | -12.3 |
| PAARATTE FORMATION | 1079.9 | 1022.6 | 459.0 | 426.2 | 78.9 | 24.5 | 26.7 | -27.88 | -2.2 | -14.5 |
| | 1158.8 | 1101.5 | 483.5 | 450.7 | 85.2 | 28.5 | 28.7 | -2.35 | -0.2 | -14.7 |
| | 1244.0 | 1186.7 | 512.0 | 479.2 | 125.5 | 40.5 | 40.5 | 0.00 | 0.0 | -14.7 |
| | 1369.5 | 1312.2 | 552.5 | 519.7 | 112.4 | 32.5 | 34.0 | -13.35 | -1.5 | -16.2 |
| | 1481.9 | 1424.6 | 585.0 | 552.2 | 75.2 | 21.5 | 22.3 | -10.64 | -0.8 | -17.0 |
| | 1557.1 | 1499.8 | 606.5 | 573.7 | 99.9 | 28.0 | 29.0 | -10.01 | -1.0 | -18.0 |
| | 1657.0 | 1599.7 | 634.5 | 601.7 | 96.0 | 27.5 | 26.8 | 7.29 | 0.7 | -17.3 |
| | 1753.0 | 1695.7 | 662.0 | 629.2 | 112.0 | 26.0 | 30.6 | -41.07 | -4.6 | -21.9 |
| BELFAST FORMATION | 1865.0 | 1807.7 | 688.0 | 655.2 | 67.0 | 17.5 | 17.5 | 0.00 | 0.0 | -21.9 |
| | 1932.0 | 1874.7 | 705.5 | 672.7 | 57.0 | 16.1 | 14.5 | 28.07 | 1.6 | -20.3 |
| | 1989.0 | 1931.7 | 721.6 | 688.8 | 58.0 | 13.5 | 14.8 | -22.41 | -1.3 | -21.6 |
| WAARRE FORMATION | 2047.0 | 1989.7 | 735.1 | 702.3 | 59.0 | 15.5 | 14.5 | 16.95 | 1.0 | -20.6 |
| EUMERALLA FORMATION | 2106.0 | 2048.7 | 750.6 | 717.8 | | | | | | |