DEPT. NAT. RES & ENV
PE906636

# VELSEIS PTY LTD

# WELL SURVEY CALCULATIONS



Company : GAS & FUEL
Well : INGLEBY #1
Elevations : Datum : 150.0 Ground : 114.0 Kelly : 117.3
Shot data : Location Elevation Offset

| Location | Elevation | Offset |
|---|---|---|
| A | 114.0 | 7.0 |
| B | 114.0 | 9.9 |
| C | 114.0 | 15.7 |
| D | 114.0 | 21.0 |

Latitude : 038 18 53.6
Longitude : 143 47 44.8
Rig identification :
Energy source : AN60
Logger : V1030
Near surface velocity
for shot statics: 630
Instrument delay: 4.0 ms

Survey date : 26-OCT-90
Survey units : METRES
Times in milliseconds.

## SHOT CALCULATIONS

| Shot No | Geophone depth Kelly | Geophone depth Datum | Shot Locn | Shot Depth | TIMES Record | TIMES Corr. | TIMES Avg. | TIMES Below datum | Check shot interval Distance | Check shot interval Time | Velocities Average | Velocities RMS | Velocities Interval |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATUM | | | | | | | | | | | | | |
| | -32.7 | 0.0 | | | | | 14.0 | 0.0 | | | | | |
| | | | | | | | | | 108.7 | 38.2 | | | 2845.5 |
| 24 | 76.0 | 108.7 | D | 2.0 | 51.0 | 52.2 | 52.2 | 38.2 | | | 2845.5 | 2845.5 | |
| | | | | | | | | | 14.0 | 3.5 | | | 4000.0 |
| 23 | 90.0 | 122.7 | D | 2.0 | 54.0 | 55.7 | 55.7 | 41.7 | | | 2942.4 | 2959.8 | |
| | | | | | | | | | 13.0 | 11.1 | | | 1171.2 |
| 22 | 103.0 | 135.7 | D | 2.0 | 65.0 | 66.8 | 66.8 | 52.8 | | | 2570.1 | 2684.6 | |
| | | | | | | | | | 14.3 | 11.8 | | | 1211.9 |
| 1 | 117.3 | 150.0 | A | 0.5 | 79.0 | 79.7 | | | | | | | |
| 2 | 117.3 | 150.0 | B | 0.5 | 78.0 | 78.5 | | | | | | | |
| 3 | 117.3 | 150.0 | C | 0.5 | 79.0 | 79.1 | | | | | | | |
| 4 | 117.3 | 150.0 | D | 2.0 | 75.0 | 77.0 | 78.6 | 64.6 | | | 2322.0 | 2481.7 | |
| | | | | | | | | | 9.7 | 2.5 | | | 3880.0 |
| 21 | 127.0 | 159.7 | D | 2.0 | 79.0 | 81.1 | 81.1 | 67.1 | | | 2380.0 | 2547.6 | |
| | | | | | | | | | 20.5 | 9.2 | | | 2228.3 |
| 20 | 147.5 | 180.2 | D | 2.0 | 88.0 | 90.3 | 90.3 | 76.3 | | | 2361.7 | 2511.3 | |
| | | | | | | | | | 11.5 | 7.0 | | | 1642.9 |
| 19 | 159.0 | 191.7 | D | 2.0 | 95.0 | 97.3 | 97.3 | 83.3 | | | 2301.3 | 2450.2 | |
| | | | | | | | | | 13.0 | 8.1 | | | 1604.9 |
| 18 | 172.0 | 204.7 | D | 2.0 | 103.0 | 105.4 | 105.4 | 91.4 | | | 2239.6 | 2387.4 | |
| | | | | | | | | | 15.0 | 8.1 | | | 1851.9 |
| 17 | 187.0 | 219.7 | D | 2.0 | 111.0 | 113.5 | 113.5 | 99.5 | | | 2208.0 | 2348.3 | |
| | | | | | | | | | 9.0 | 6.0 | | | 1500.0 |
| 16 | 196.0 | 228.7 | D | 2.0 | 117.0 | 119.5 | 119.5 | 105.5 | | | 2167.8 | 2308.5 | |
| | | | | | | | | | 11.0 | 4.5 | | | 2444.4 |
| 5 | 207.0 | 239.7 | D | 2.0 | 122.0 | 124.5 | | | | | | | |
| 15 | 207.0 | 239.7 | D | 2.0 | 121.0 | 123.5 | 124.0 | 110.0 | | | 2179.1 | 2314.2 | |
| | | | | | | | | | 15.0 | 7.6 | | | 1973.7 |
| 14 | 222.0 | 254.7 | D | 2.0 | 129.0 | 131.6 | 131.6 | 117.6 | | | 2165.8 | 2293.7 | |
| | | | | | | | | | 9.0 | 4.0 | | | 2250.0 |
| 13 | 231.0 | 263.7 | D | 2.0 | 133.0 | 135.6 | 135.6 | 121.6 | | | 2168.6 | 2292.3 | |
| | | | | | | | | | 9.0 | 4.0 | | | 2250.0 |
| EUMERALLA FM | | | | | | | | | | | | | |
| 12 | 240.0 | 272.7 | D | 2.0 | 137.0 | 139.6 | 139.6 | 125.6 | | | 2171.2 | 2291.0 | |
| | | | | | | | | | 18.5 | 9.1 | | | 2033.0 |
| 11 | 258.5 | 291.2 | D | 2.0 | 146.0 | 148.7 | 148.7 | 134.7 | | | 2161.8 | 2274.5 | |