

VELSEIS PTY LTD

DEPT. NAT. RES & ENV



PE906769

WELL SURVEY CALCULATIONS Page 3

Company : GAS A& FUEL EXPLORATION N/L  
 Well : NALANGIL #1  
 Elevations : Datum : 150.0 Ground : 143.0 Kelly : 146.1

Latitude : 038 21 40  
 Longitude : 143 26 17

Survey date : 07-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               |       |                  |             |                     |      |                 |                      |          |                       |
| -3.9                | 0.0   | -0.5             | 0.0         |                     |      |                 |                      |          |                       |
| 21.0                | 24.9  | 12.1             | 12.6        | 24.9                | 12.6 |                 |                      |          |                       |
| 50.0                | 53.9  | 26.9             | 27.4        | 29.0                | 14.8 |                 |                      |          |                       |
| 69.0                | 72.9  | 39.4             | 39.9        | 19.0                | 12.5 |                 |                      |          |                       |
| 105.0               | 108.9 | 57.1             | 57.6        | 36.0                | 17.7 | 22.9            | -144.44              | -5.2     | -5.2                  |
| 130.0               | 133.9 | 73.3             | 73.8        | 25.0                | 16.2 | 15.7            | 20.00                | 0.5      | -4.7                  |
| 146.1               | 150.0 | 83.8             | 84.3        | 16.1                | 10.5 | 9.6             | 55.90                | 0.9      | -3.8                  |
| 150.0               | 153.9 | 86.4             | 86.9        | 3.9                 | 2.6  | 2.5             | 25.64                | 0.1      | -3.7                  |
| 167.0               | 170.9 | 96.5             | 97.0        | 17.0                | 10.1 | 10.1            | 0.00                 | 0.0      | -3.7                  |
| 192.0               | 195.9 | 109.6            | 110.1       | 25.0                | 13.1 | 15.1            | -80.00               | -2.0     | -5.7                  |
| 222.0               | 225.9 | 125.7            | 126.2       | 30.0                | 16.1 | 18.1            | -66.67               | -2.0     | -7.7                  |
| 240.0               | 243.9 | 134.3            | 134.8       | 18.0                | 8.6  | 9.9             | -72.22               | -1.3     | -9.0                  |
| 250.0               | 253.9 | 139.8            | 140.3       | 10.0                | 5.5  | 6.3             | -80.00               | -0.8     | -9.8                  |
|                     |       |                  |             | 7.0                 | 4.0  | 4.5             | -71.43               | -0.5     | -10.3                 |
| EMBER MUDSTONE      |       |                  |             |                     |      |                 |                      |          |                       |
| 257.0               | 260.9 | 143.8            | 144.3       | 17.0                | 8.5  | 8.9             | -23.53               | -0.4     | -10.7                 |
| 274.0               | 277.9 | 152.3            | 152.8       | 15.0                | 6.6  | 6.8             | -13.33               | -0.2     | -10.9                 |
| EUMERALLA FORMATION |       |                  |             |                     |      |                 |                      |          |                       |
| 289.0               | 292.9 | 158.9            | 159.4       | 6.0                 | 2.5  | 3.1             | -100.00              | -0.6     | -11.5                 |
| 295.0               | 298.9 | 161.4            | 161.9       | 22.0                | 10.0 | 9.2             | 36.36                | 0.8      | -10.7                 |
| 317.0               | 320.9 | 171.4            | 171.9       | 25.0                | 11.1 | 9.5             | 64.00                | 1.6      | -9.1                  |
| 342.0               | 345.9 | 182.5            | 183.0       |                     |      |                 |                      |          |                       |