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2007 SPINEL 3D SEISMIC SURVEY FINAL OPERATIONS REPORT

PEL 106 AND PEL 91, COOPER BASIN,
SOUTH AUSTRALIA
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| Appendix 7 | Environmental Impact Inspection Report (PIRSA) |

1. INTRODUCTION

The 2007 Spinel 3D Seismic Survey was conducted in PEL 106 and PEL 91, approximately 40 km northwest of the Moomba Processing Plant, in the South Australian part of the Cooper/Eromanga Basin South Australia (Figure 1). The Spinel survey was the largest onshore exploration 3D seismic survey ever conducted in Australia. The survey comprised 495.90 km² of new 3D seismic and was planned in such a way that it could be merged during processing with two earlier 3D surveys, the Paranta 3D and the Raven-Moonanga 3D (Figure 2). The survey was designed to provide the basis for the next round of exploration drilling in the area and to provide the necessary information for the commercialisation and development of Great Artesian's existing gas discoveries.

The parameters for the Spinel 3D survey were the most intense in the Cooper Basin to date. The source and receiver line spacing was 320 m x 320 m and the source and receiver intervals were both 40 m, giving 20 m x 20 m subsurface bins with nominal 35 fold subsurface coverage (7 fold in-line and 5 fold cross-line). Each patch consisted of 10 receiver lines of 112 channels each, resulting in 1120 live traces. Three inline vibrators provided the source energy with two summed, standing, linear-upsweeps of 9 seconds duration at each station.

Recording activities were conducted between 29th of January and 15th of April 2007. Line preparation took place between 15th of December 2006 and 27th March 2007. An uphole survey was conducted in conjunction with the seismic survey, with 103 new upholes being drilled and logged between 10th and 27th March 2007. All field operations were completed with excellent production, good data quality and no lost time injuries. All contractors are recommended for future work.

B. C. & M. Beer Pty Ltd provided the field supervision for the duration of the Spinel 3D project. The Field Operations Report includes a detailed account of all aspects of the survey (Appendix 1). Terrex Seismic Pty Ltd was contracted to conduct the seismic data acquisition (Appendix 2). Dynamic Satellite Surveys was the surveying contractor for the project (Appendix 3) and the data processing was by Velseis Processing Pty Ltd (Appendix 4). Following the survey, an Environmental Impact Report was prepared by B. C. & M. Beer Pty Ltd (Appendix 5). An uphole program consisting of 103 new holes was conducted in conjunction with the survey. The upholes were drilled by Scanlon Drilling Pty Ltd and surveyed by Velocity Data Pty Ltd (Appendix 6). During the survey an environmental impact inspection was conducted by PIRSA. Their report is included as Appendix 7.

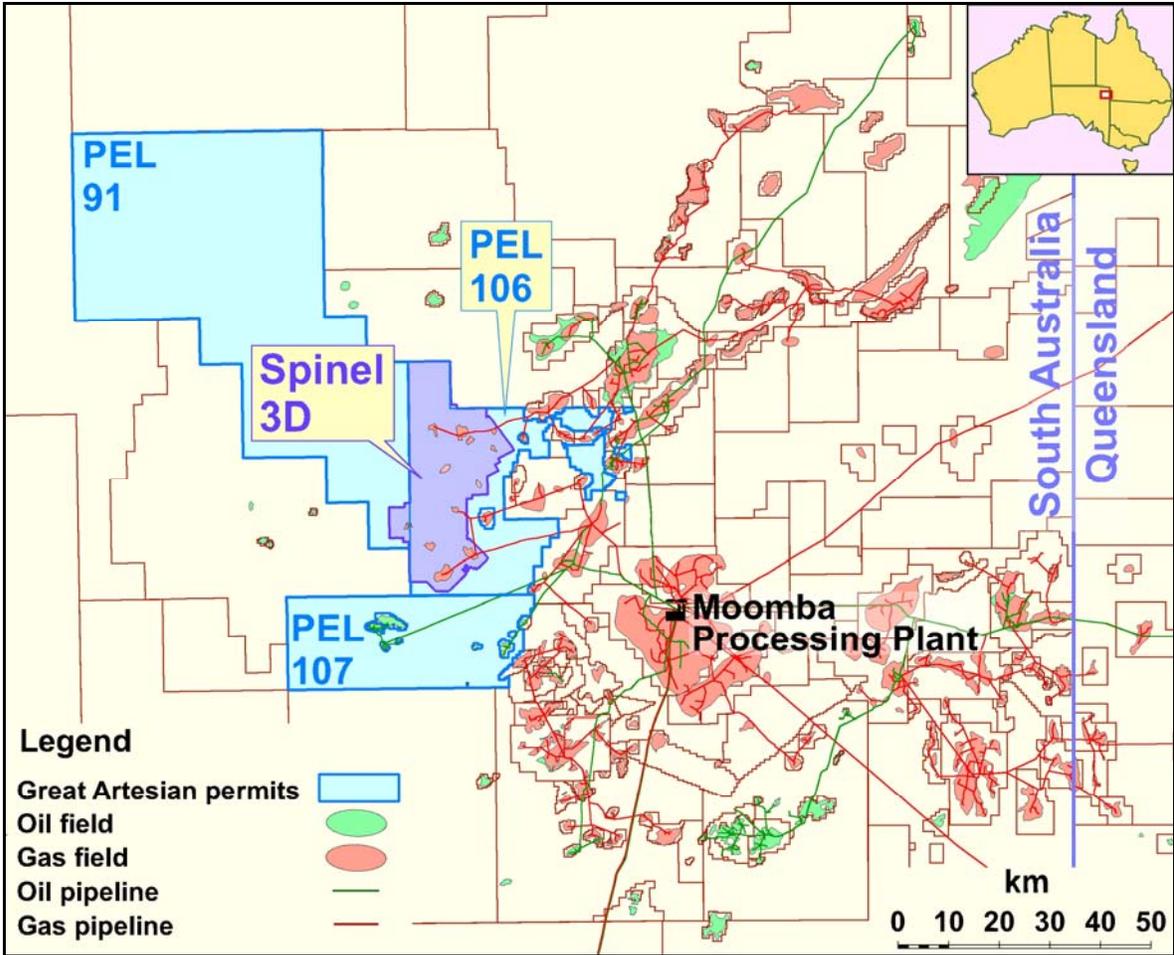


Figure 1. Spinel 3D location map

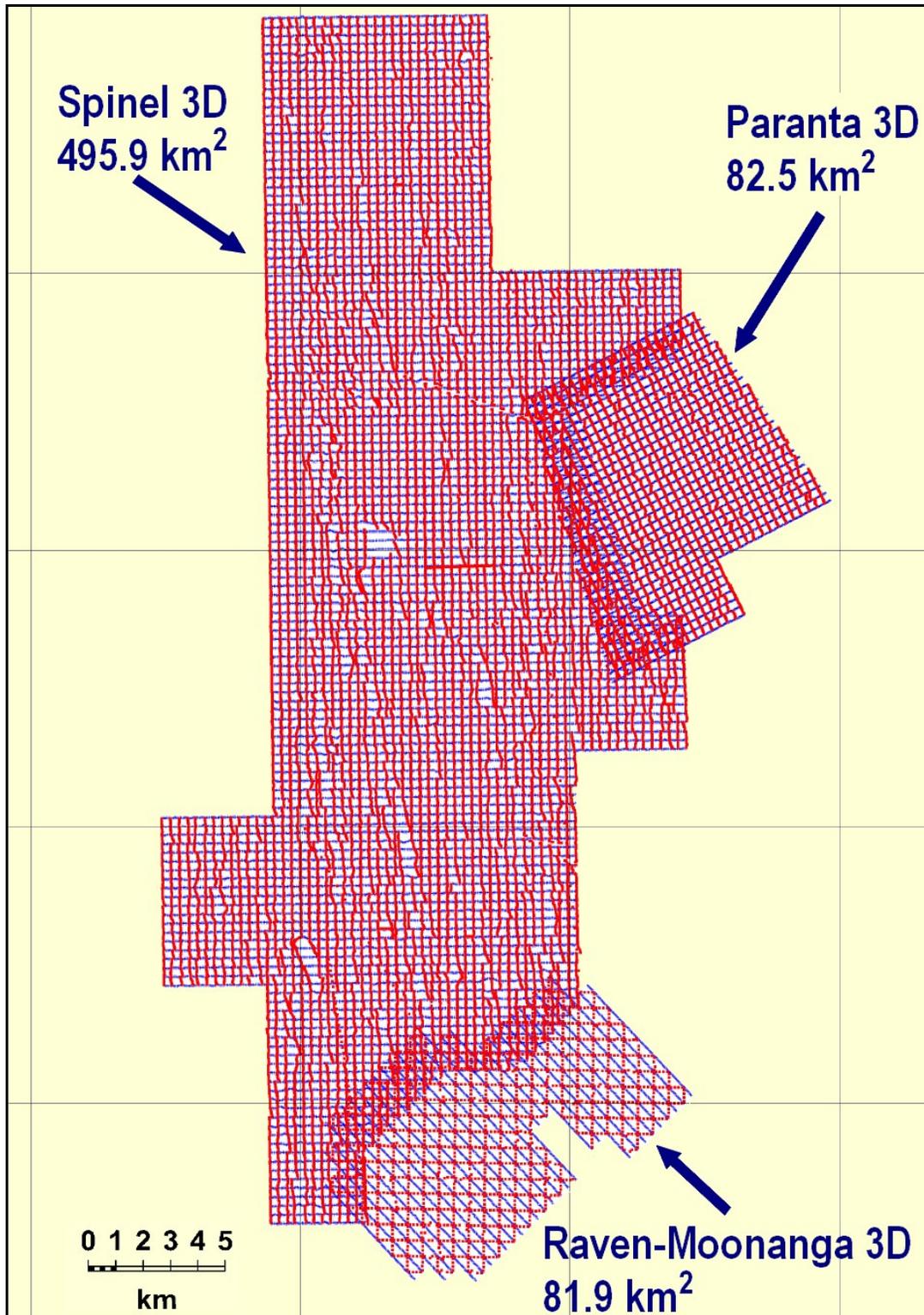


Figure 2. Spinel 3D, Paranta 3D and Raven-Moonanga 3D surveys, showing source and receiver line layouts (in red and blue, respectively)

2. FIELD OPERATIONS

2.1. Introduction

The Spinel 3D field operations comprised a seismic survey and an uphole survey and took place in the Strzelecki Desert, northern South Australia. The terrain is mainly sand dunes, floodplains, clay pans and salt lakes (Figure 3). A daily seismic acquisition summary is presented below in Table 1 and the upholes are reviewed in Section 2.8.

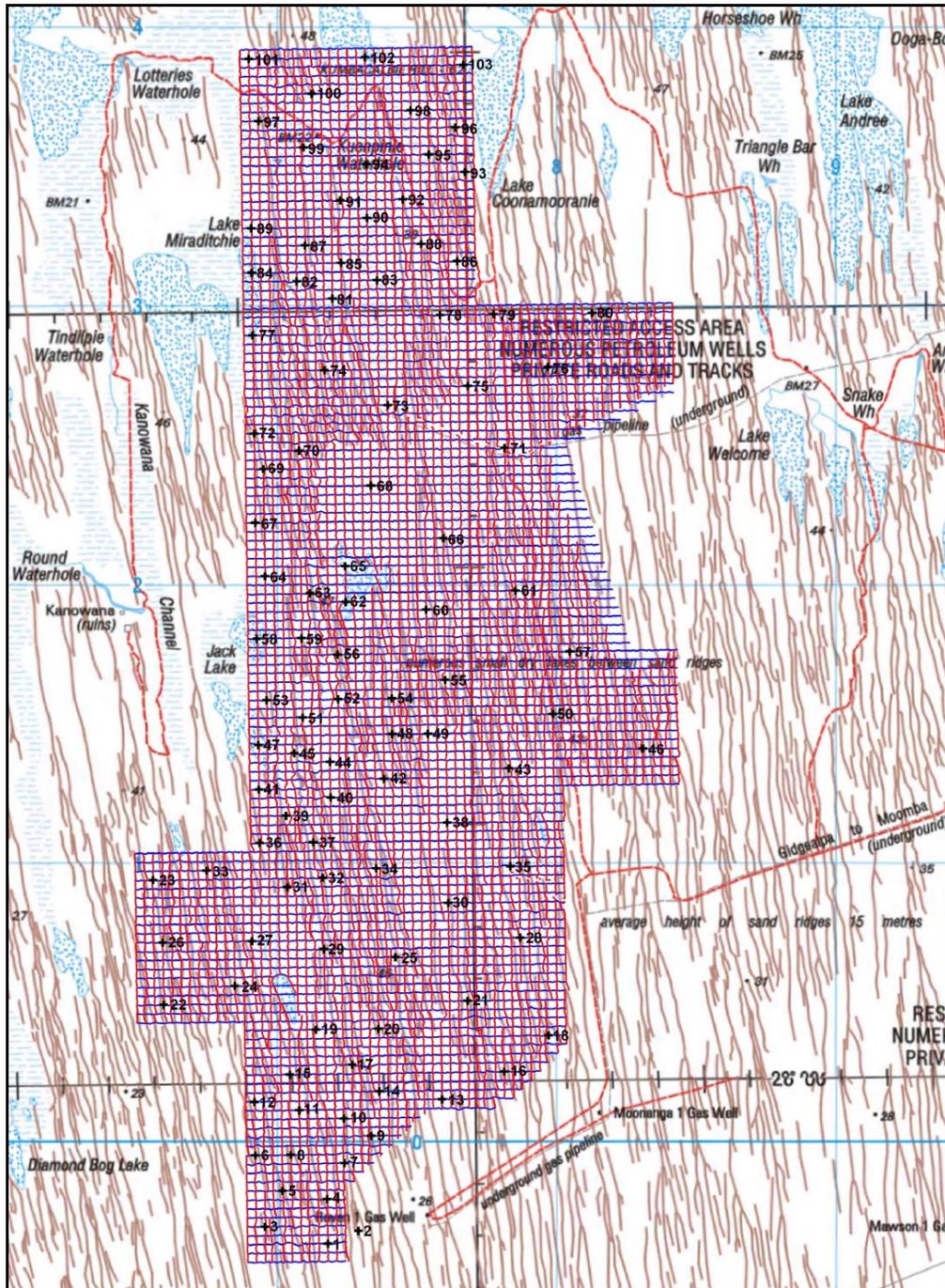


Figure 3. Spinel 3D survey, showing topography and new upholes

Table 1. Acquisition Summary

| Date | Swath# | Rec. Line to | Rec Line | Source Line to | Source Line | VP to | VP | #Traverses | # Production VPs | Overlap VPs | Total VPs per Day | Linear Kms | Daily Lin Km | Daily Sq Km |
|--------|--------|--------------|----------|----------------|-------------|-------|------|------------|------------------|-------------|-------------------|------------|--------------|-------------|
| Jan | | | | | | | | | | | | | | |
| 23-Jan | | | | | | | | | | | | | | |
| 24-Jan | | | | | | | | | | | | | | |
| 25-Jan | | | | | | | | | | | | | | |
| 26-Jan | | | | | | | | | | | | | | |
| 27-Jan | | | | | | | | | | | | | | |
| 28-Jan | | | | | | | | | | | | | | |
| 29-Jan | 6 | 2228 | 2268 | 5372 | - | 2229 | 2236 | 1.000 | 8 | 264 | 280 | 0.32 | 0.64 | 0.204 |
| | 7 | 2228 | 2276 | 5372 | - | 2237 | 2244 | 1.000 | 8 | | | 0.32 | | |
| 30-Jan | 6 | 2228 | 2268 | 5380 | 5468 | 2229 | 2236 | 12.000 | 96 | 256 | 760 | 3.84 | 20.16 | 6.412 |
| | 7 | 2228 | 2276 | 5380 | 5468 | 2237 | 2244 | 12.000 | 96 | | | 3.84 | | |
| | 8 | 2228 | 2284 | 5372 | 5468 | 2245 | 2252 | 13.000 | 104 | | | 4.16 | | |
| | 9 | 2228 | 2292 | 5372 | 5468 | 2253 | 2260 | 13.000 | 104 | | | 4.16 | | |
| | 10 | 2228 | 2300 | 5372 | 5468 | 2261 | 2268 | 13.000 | 104 | | | 4.16 | | |
| 31-Jan | 6 | 2228 | 2268 | 5476 | 5476 | 2229 | 2236 | 1.000 | 8 | 192 | 680 | 0.32 | 19.52 | 6.209 |
| | 7 | 2228 | 2276 | 5476 | 5476 | 2237 | 2244 | 1.000 | 8 | | | 0.32 | | |
| | 8 | 2228 | 2284 | 5476 | 5476 | 2245 | 2252 | 1.000 | 8 | | | 0.32 | | |
| | 9 | 2228 | 2292 | 5476 | 5476 | 2253 | 2260 | 1.000 | 8 | | | 0.32 | | |
| | 10 | 2228 | 2300 | 5476 | 5476 | 2261 | 2268 | 1.000 | 8 | | | 0.32 | | |
| | 11 | 2236 | 2308 | 5476 | 5372 | 2269 | 2276 | 14.000 | 112 | | | 4.48 | | |
| | 12 | 2244 | 2316 | 5476 | 5372 | 2277 | 2284 | 14.000 | 112 | | | 4.48 | | |
| | 13 | 2252 | 2324 | 5372 | 5476 | 2285 | 2292 | 14.000 | 112 | | | 4.48 | | |
| | 14 | 2260 | 2332 | 5372 | 5476 | 2293 | 2300 | 14.000 | 112 | | | 4.48 | | |
| 1-Feb | 15 | 2268 | 2340 | 5476 | 5372 | 2301 | 2308 | 14.000 | 112 | 192 | 675 | 4.48 | 19.32 | 6.145 |
| | 16 | 2276 | 2348 | 5476 | 5372 | 2309 | 2316 | 14.000 | 112 | | | 4.48 | | |
| | 17 | 2284 | 2356 | 5372 | 5476 | 2317 | 2324 | 14.000 | 112 | | | 4.48 | | |
| | 18 | 2292 | 2364 | 5372 | 5476 | 2325 | 2332 | 12.875 | 103 | | | 4.12 | | |
| | 19 | 2300 | 2372 | 5444 | 5476 | 2333 | 2340 | 3.750 | 30 | | | 1.20 | | |
| | 20 | 2308 | 2380 | 5476 | 5460 | 2341 | 2348 | 1.750 | 14 | | | 0.56 | | |
| 2-Feb | 19 | 2300 | 2372 | 5420 | 5372 | 2333 | 2340 | 7 | 56 | 264 | 638 | 2.24 | 14.96 | 4.758 |
| | 20 | 2308 | 2380 | 5420 | 5372 | 2341 | 2348 | 6.75 | 54 | | | 2.16 | | |
| | 21 | 2316 | 2388 | 5372 | 5412 | 2349 | 2356 | 6 | 48 | | | 1.92 | | |
| | 22 | 2324 | 2396 | 5372 | 5412 | 2357 | 2364 | 6 | 48 | | | 1.92 | | |
| | 23 | 2332 | 2404 | 5372 | 5412 | 2365 | 2372 | 5.875 | 47 | | | 1.88 | | |
| | 24 | 2340 | 2412 | 5404 | 5372 | 2373 | 2380 | 5 | 40 | | | 1.60 | | |
| | 25 | 2348 | 2420 | 5404 | 5372 | 2381 | 2388 | 5 | 40 | | | 1.60 | | |
| | 26 | 2356 | 2428 | 5404 | 5372 | 2389 | 2396 | 5 | 40 | | | 1.60 | | |
| | 27 | 2364 | 2436 | 5404 | - | 2397 | - | 0.125 | 1 | | | 0.04 | | |

Table 1. Acquisition Summary (continued)

| Date | Swath# | Rec. Line to | Rec Line | Source Line to | Source Line | VP to | VP | # Traverses | # Production VPs | Overlap VP's | Total VPs per Day | Linear Kms | Daily Lin Km | Daily Sq Km |
|-------|--------|--------------|----------|----------------|-------------|-------|------|-------------|------------------|--------------|-------------------|------------|--------------|-------------|
| 3-Feb | 24 | 2340 | 2412 | - | - | 2373 | 2380 | | | 504 | 721 | | 8.68 | 2.761 |
| | 25 | 2348 | 2420 | - | - | 2381 | 2388 | | | | | | | |
| | 26 | 2356 | 2428 | - | - | 2389 | 2396 | | | | | | | |
| | 27 | 2364 | 2436 | 5372 | 5396 | 2397 | 2404 | 4 | 32 | | | 1.28 | | |
| | 28 | 2372 | 2444 | 5372 | 5396 | 2405 | 2412 | 4 | 32 | | | 1.28 | | |
| | 29 | 2380 | 2452 | 5372 | 5396 | 2413 | 2420 | 4 | 32 | | | 1.28 | | |
| | 30 | 2388 | 2460 | 5396 | 5372 | 2421 | 2428 | 3.25 | 26 | | | 1.04 | | |
| | 31 | 2396 | 2468 | 5388 | 5372 | 2429 | 2436 | 3 | 24 | | | 0.96 | | |
| | 32 | 2404 | 2476 | 5388 | 5372 | 2437 | 2444 | 3 | 24 | | | 0.96 | | |
| | 33 | 2412 | 2484 | 5388 | 5372 | 2445 | 2452 | 2.375 | 19 | | | 0.76 | | |
| | 34 | 2420 | 2492 | 5380 | 5372 | 2453 | 2460 | 2 | 16 | | | 0.64 | | |
| | 35 | 2428 | 2500 | 5380 | - | 2461 | 2468 | 1 | 8 | | | 0.32 | | |
| | 36 | 2436 | 2508 | 5380 | - | 2469 | 2472 | 0.5 | 4 | | | 0.16 | | |
| 4-Feb | 35 | 2428 | 2500 | 5372 | - | 2461 | 2468 | 1 | 8 | 549 | 587 | 0.32 | 1.52 | 0.483 |
| | 36 | 2436 | 2508 | 5372 | - | 2469 | 2476 | 1 | 8 | | | 0.32 | | |
| | 37 | 2444 | 2516 | 5372 | - | 2477 | 2484 | 1 | 8 | | | 0.32 | | |
| | 38 | 2452 | 2524 | 5372 | - | 2485 | 2492 | 1 | 8 | | | 0.32 | | |
| | 39 | 2460 | 2532 | 5372 | - | 2493 | 2500 | 0.75 | 6 | | | 0.24 | | |
| | 40 | 2468 | 2540 | - | - | 2501 | 2508 | | | | | | | |
| | 41 | 2476 | 2548 | - | - | 2509 | 2516 | | | | | | | |
| | 42 | 2484 | 2556 | - | - | 2517 | 2524 | | | | | | | |
| | 43 | 2492 | 2564 | - | - | 2525 | 2532 | | | | | | | |
| | 44 | 2500 | 2572 | - | - | 2533 | 2540 | | | | | | | |
| | 45 | 2508 | 2580 | - | - | 2541 | 2548 | | | | | | | |
| | 46 | 2516 | 2588 | - | - | 2549 | 2556 | | | | | | | |
| 5-Feb | 44 | 2500 | 2572 | 5372 | - | 2533 | 2540 | 0.25 | 2 | 256 | 707 | 0.08 | 18.04 | 5.738 |
| | 45 | 2508 | 2580 | 5372 | 5388 | 2541 | 2548 | 2 | 16 | | | 0.64 | | |
| | 46 | 2516 | 2588 | 5372 | 5404 | 2549 | 2556 | 4 | 32 | | | 1.28 | | |
| | 47 | 2524 | 2596 | 5372 | 5420 | 2557 | 2564 | 6 | 48 | | | 1.92 | | |
| | 48 | 2532 | 2604 | 5372 | 5436 | 2565 | 2572 | 8 | 64 | | | 2.56 | | |
| | 49 | 2540 | 2612 | 5372 | 5452 | 2573 | 2580 | 10 | 80 | | | 3.20 | | |
| | 50 | 2548 | 2620 | 5372 | 5468 | 2581 | 2588 | 12.125 | 97 | | | 3.88 | | |
| | 51 | 2556 | 2628 | 5372 | 5476 | 2589 | 2596 | 14 | 112 | | | 4.48 | | |
| 6-Feb | 52 | 2564 | 2636 | 5476 | 5372 | 2597 | 2604 | 14 | 112 | 192 | 680 | 4.48 | 19.52 | 6.209 |
| | 53 | 2572 | 2644 | 5476 | 5372 | 2605 | 2612 | 14 | 112 | | | 4.48 | | |
| | 54 | 2580 | 2652 | 5476 | 5372 | 2613 | 2620 | 14 | 112 | | | 4.48 | | |
| | 55 | 2588 | 2660 | 5476 | 5372 | 2621 | 2628 | 14 | 112 | | | 4.48 | | |
| | 56 | 2596 | 2660 | 5476 | 5444 | 2629 | 2636 | 5 | 40 | | | 1.60 | | |

Table 1. Acquisition Summary (continued)

| Date | Swath# | Rec. Line to | Rec Line | Source Line to | Source Line | VP to | VP | # Traverses | # Production VPs | Overlap VP's | Total VPs per Day | Linear Kms | Daily Lin Km | Daily Sq Km |
|--------|--------|--------------|----------|----------------|-------------|-------|------|-------------|------------------|--------------|-------------------|------------|--------------|-------------|
| 7-Feb | 56 | 2596 | 2660 | 5372 | 5436 | 2629 | 2636 | 9 | 72 | 192 | 600 | 2.88 | 16.32 | 5.191 |
| | 57 | 2604 | 2660 | 5372 | 5476 | 2637 | 2644 | 14 | 112 | | | 4.48 | | |
| | 58 | 2612 | 2668 | 5372 | 5476 | 2645 | 2652 | 14 | 112 | | | 4.48 | | |
| | 59 | 2620 | 2676 | 5372 | 5476 | 2653 | 2660 | 14 | 112 | | | 4.48 | | |
| 8-Feb | 60 | 2732 | 2660 | 5300 | 5236 | 2693 | 2700 | 9 | 72 | | 360 | 2.88 | 14.40 | 4.580 |
| | 61 | 2724 | 2652 | 5236 | 5300 | 2685 | 2692 | 9 | 72 | | | 2.88 | | |
| | 62 | 2716 | 2644 | 5300 | 5236 | 2677 | 2684 | 9 | 72 | | | 2.88 | | |
| | 63 | 2708 | 2636 | 5236 | 5300 | 2669 | 2676 | 9 | 72 | | | 2.88 | | |
| | 64 | 2700 | 2628 | 5300 | 5236 | 2661 | 2668 | 9 | 72 | | | 2.88 | | |
| 9-Feb | 65 | 2692 | 2620 | 5236 | 5364 | 2653 | 2660 | 17 | 136 | 112 | 504 | 5.44 | 15.68 | 4.987 |
| | 66 | 2684 | 2612 | 5364 | 5236 | 2645 | 2652 | 17 | 136 | | | 5.44 | | |
| | 67 | 2676 | 2604 | 5236 | 5348 | 2637 | 2644 | 15 | 120 | | | 4.80 | | |
| 10-Feb | 67 | 2676 | 2604 | 5356 | 5364 | 2637 | 2644 | 2 | 16 | 168 | 584 | 0.64 | 16.64 | 5.293 |
| | 68 | 2668 | 2596 | 5364 | 5236 | 2629 | 2636 | 17 | 136 | | | 5.44 | | |
| | 69 | 2660 | 2588 | 5364 | 5236 | 2621 | 2628 | 17 | 136 | | | 5.44 | | |
| | 70 | 2652 | 2580 | 5236 | 5292 | 2613 | 2620 | 8 | 64 | | | 2.56 | | |
| | 71 | 2644 | 2572 | 5236 | 5292 | 2605 | 2612 | 8 | 64 | | | 2.56 | | |
| 11-Feb | 70 | 2652 | 2580 | 5300 | 5364 | 2613 | 2620 | 9 | 72 | 224 | 608 | 2.88 | 15.36 | 4.886 |
| | 71 | 2644 | 2572 | 5300 | 5364 | 2605 | 2612 | 9 | 72 | | | 2.88 | | |
| | 72 | 2636 | 2564 | 5364 | 5252 | 2597 | 2604 | 15 | 120 | | | 4.80 | | |
| | 73 | 2628 | 2556 | 5364 | 5252 | 2589 | 2596 | 15 | 120 | | | 4.80 | | |
| 12-Feb | 72 | 2636 | 2564 | 5244 | 5236 | 2597 | 2604 | 2 | 16 | 112 | 624 | 0.64 | 20.48 | 6.514 |
| | 73 | 2628 | 2556 | 5244 | 5236 | 2589 | 2596 | 2 | 16 | | | 0.64 | | |
| | 74 | 2620 | 2548 | 5236 | 5364 | 2581 | 2588 | 17 | 136 | | | 5.44 | | |
| | 75 | 2612 | 2540 | 5364 | 5236 | 2573 | 2580 | 17 | 136 | | | 5.44 | | |
| | 76 | 2604 | 2532 | 5340 | 5236 | 2565 | 2572 | 14 | 112 | | | 4.48 | | |
| | 77 | 2596 | 2524 | 5236 | 5324 | 2557 | 2564 | 12 | 96 | | | 3.84 | | |
| 13-Feb | 76 | 2604 | 2532 | 5348 | 5364 | 2565 | 2572 | 3 | 24 | 152 | 600 | 0.96 | 17.92 | 5.700 |
| | 77 | 2596 | 2524 | 5332 | 5364 | 2557 | 2564 | 5 | 40 | | | 1.60 | | |
| | 78 | 2588 | 2516 | 5364 | 5236 | 2549 | 2556 | 17 | 136 | | | 5.44 | | |
| | 79 | 2580 | 2508 | 5364 | 5236 | 2541 | 2548 | 17 | 136 | | | 5.44 | | |
| | 80 | 2572 | 2500 | 5236 | 5284 | 2533 | 2540 | 7 | 56 | | | 2.24 | | |
| | 81 | 2564 | 2492 | 5236 | 5284 | 2525 | 2532 | 7 | 56 | | | 2.24 | | |
| 14-Feb | 80 | 2572 | 2500 | 5292 | 5364 | 2533 | 2540 | 9.75 | 78 | 2 | 559 | 3.12 | 22.28 | 7.087 |
| | 81 | 2564 | 2492 | 5292 | 5356 | 2525 | 2532 | 9 | 72 | | | 2.88 | | |
| | 82 | 2556 | 2484 | 5364 | 5236 | 2517 | 2524 | 16.875 | 135 | | | 5.40 | | |
| | 83 | 2548 | 2476 | 5364 | 5236 | 2509 | 2516 | 17 | 136 | | | 5.44 | | |
| | 84 | 2540 | 2468 | 5236 | 5364 | 2501 | 2508 | 17 | 136 | | | 5.44 | | |

Table 1. Acquisition Summary (continued)

| Date | Swath# | Rec. Line to | Rec Line | Source Line to | Source Line | VP to | VP | #Traverses | # Production VPs | Overlap VPs | Total VPs per Day | Linear Kms | Daily Lin Km | Daily Sq Km |
|--------|--------|--------------|----------|----------------|-------------|-------|------|------------|------------------|-------------|-------------------|------------|--------------|-------------|
| 15-Feb | 85 | 2532 | 2460 | 5364 | 5236 | 2493 | 2500 | 17 | 136 | 50 | 602 | 5.44 | 22.08 | 7.023 |
| | 86 | 2524 | 2452 | 5236 | 5364 | 2485 | 2492 | 17 | 136 | | | 5.44 | | |
| | 87 | 2516 | 2444 | 5364 | 5236 | 2477 | 2484 | 17 | 136 | | | 5.44 | | |
| | 88 | 2508 | 2436 | 5236 | 5364 | 2469 | 2476 | 17 | 136 | | | 5.44 | | |
| | 89 | 2500 | 2428 | 5364 | 5364 | 2461 | 2468 | 1 | 8 | | | 0.32 | | |
| 16-Feb | 89 | 2500 | 2428 | 5356 | 5236 | 2461 | 2468 | 16 | 128 | 35 | 435 | 5.12 | 16.00 | 5.089 |
| | 90 | 2492 | 2420 | 5236 | 5364 | 2453 | 2460 | 17 | 136 | | | 5.44 | | |
| | 91 | 2484 | 2412 | 5364 | 5236 | 2445 | 2452 | 17 | 136 | | | 5.44 | | |
| 17-Feb | 92 | 2476 | 2404 | 5236 | 5364 | 2437 | 2444 | 17 | 136 | 98 | 506 | 5.44 | 16.32 | 5.191 |
| | 93 | 2468 | 2396 | 5364 | 5236 | 2429 | 2436 | 17 | 136 | | | 5.44 | | |
| | 94 | 2460 | 2388 | 5236 | 5364 | 2421 | 2428 | 17 | 136 | | | 5.44 | | |
| 18-Feb | 95 | 2452 | 2380 | 5364 | 5236 | 2413 | 2420 | 17 | 136 | 73 | 497 | 5.44 | 16.96 | 5.395 |
| | 96 | 2444 | 2372 | 5236 | 5364 | 2405 | 2412 | 17 | 136 | | | 5.44 | | |
| | 97 | 2436 | 2364 | 5364 | 5236 | 2397 | 2404 | 17 | 136 | | | 5.44 | | |
| | 98 | 2428 | 2356 | 5292 | 5300 | 2389 | 2396 | 2 | 16 | | | 0.64 | | |
| 19-Feb | 98 | 2428 | 2356 | 5236 | 5364 | 2389 | 2396 | 15 | 120 | 127 | 567 | 4.80 | 17.60 | 5.598 |
| | 99 | 2420 | 2348 | 5364 | 5236 | 2381 | 2388 | 17 | 136 | | | 5.44 | | |
| | 100 | 2412 | 2340 | 5236 | 5364 | 2373 | 2380 | 17 | 136 | | | 5.44 | | |
| | 101 | 2404 | 2332 | 5236 | 5276 | 2365 | 2372 | 6 | 48 | | | 1.92 | | |
| 20-Feb | 101 | 2404 | 2332 | 5284 | 5364 | 2365 | 2372 | 11 | 88 | 190 | 558 | 3.52 | 14.72 | 4.682 |
| | 102 | 2396 | 2324 | 5236 | 5364 | 2357 | 2364 | 17 | 136 | | | 5.44 | | |
| | 103 | 2388 | 2316 | 5236 | 5364 | 2349 | 2356 | 17 | 136 | | | 5.44 | | |
| | 104 | 2380 | 2308 | 5364 | 5364 | 2341 | 2348 | 1 | 8 | | | 0.32 | | |
| 21-Feb | 104 | 2380 | 2308 | 5356 | 5236 | 2341 | 2348 | 16 | 128 | 160 | 560 | 5.12 | 16.00 | 5.089 |
| | 105 | 2372 | 2300 | 5236 | 5364 | 2333 | 2340 | 17 | 136 | | | 5.44 | | |
| | 106 | 2364 | 2292 | 5236 | 5364 | 2325 | 2332 | 17 | 136 | | | 5.44 | | |
| | 107 | 2356 | 2284 | - | - | 2317 | 2324 | | | | | | | |
| 22-Feb | 107 | 2356 | 2284 | 5364 | 5236 | 2317 | 2324 | 17 | 136 | 120 | 528 | 5.44 | 16.32 | 5.191 |
| | 108 | 2348 | 2276 | 5236 | 5364 | 2309 | 2316 | 17 | 136 | | | 5.44 | | |
| | 109 | 2340 | 2268 | 5236 | 5364 | 2301 | 2308 | 17 | 136 | | | 5.44 | | |
| 23-Feb | 110 | 2332 | 2260 | 5364 | 5236 | 2300 | 2293 | 17 | 136 | 112 | 592 | 5.44 | 19.20 | 6.107 |
| | 111 | 2324 | 2252 | 5364 | 5236 | 2292 | 2285 | 17 | 136 | | | 5.44 | | |
| | 112 | 2316 | 2244 | 5236 | 5332 | 2284 | 2277 | 13 | 104 | | | 4.16 | | |
| | 113 | 2308 | 2236 | 5236 | 5332 | 2269 | 2276 | 13 | 104 | | | 4.16 | | |
| 24-Feb | 112 | 2316 | 2244 | 5340 | 5364 | 2284 | 2277 | 4 | 32 | 224 | 608 | 1.28 | 15.36 | 4.886 |

Table 1. Acquisition Summary (continued)

| Date | Swath# | Rec. Line to | Rec. Line | Source Line to | Source Line | VP to | VP | # Traverses | # Production VPs | Overlap VP's | Total VPs per Day | Linear Kms | Daily Lin Km | Daily Sq Km |
|--------|--------|--------------|-----------|----------------|-------------|-------|------|-------------|------------------|--------------|-------------------|------------|--------------|-------------|
| | 113 | 2308 | 2236 | 5364 | 5340 | 2248 | 2277 | 4 | 32 | | | 1.28 | | |
| | 114 | 2300 | 2228 | 5364 | 5236 | 2268 | 2261 | 17 | 136 | | | 5.44 | | |
| | 115 | 2292 | 2220 | 5364 | 5236 | 2268 | 2261 | 17 | 136 | | | 5.44 | | |
| | 116 | 2284 | 2212 | 5236 | 5252 | 2252 | 2243 | 3 | 24 | | | 0.96 | | |
| | 117 | 2276 | 2204 | 5236 | 5252 | 2252 | 2243 | 3 | 24 | | | 0.96 | | |
| 25-Feb | 116 | 2284 | 2212 | 5260 | 5364 | 2252 | 2245 | 14 | 112 | 160 | 642 | 4.48 | 19.28 | 6.133 |
| | 117 | 2276 | 2204 | 5260 | 5364 | 2252 | 2245 | 14 | 112 | | | 4.48 | | |
| | 118 | 2268 | 2196 | 5364 | 5244 | 2236 | 2229 | 16 | 128 | | | 5.12 | | |
| | 119 | 2260 | 2188 | 5372 | 5244 | 2236 | 2229 | 16.25 | 130 | | | 5.20 | | |
| 26-Feb | 119 | 2260 | 2188 | 5244 | 5236 | 2221 | 2228 | 2 | 14 | | 605 | 0.56 | 24.20 | 7.698 |
| | 118 | 2268 | 2196 | 5236 | 5236 | 2221 | 2228 | 1 | 8 | | | 0.32 | | |
| | 120 | 2252 | 2180 | 5236 | 5372 | 2220 | 2213 | 18 | 144 | | | 5.76 | | |
| | 121 | 2244 | 2172 | 5236 | 5372 | 2212 | 2203 | 18 | 144 | | | 5.76 | | |
| | 122 | 2236 | 2164 | 5372 | 5236 | 2204 | 2197 | 18 | 144 | | | 5.76 | | |
| | 123 | 2228 | 2156 | 5372 | 5236 | 2196 | 2189 | 18 | 144 | | | 5.76 | | |
| | 124 | 2220 | 2148 | 5236 | 5236 | 2188 | 2182 | 0.875 | 7 | | | 0.28 | | |
| 27-Feb | 124 | 2220 | 2148 | 5236 | 5236 | 2181 | 2181 | 17.125 | 137 | | 609 | 5.48 | 24.36 | 7.748 |
| | 125 | 2212 | 2132 | 5236 | 5372 | 2181 | 2188 | 18 | 144 | | | 5.76 | | |
| | 126 | 2204 | 2132 | 5372 | 5236 | 2180 | 2173 | 18 | 144 | | | 5.76 | | |
| | 127 | 2196 | 2124 | 5236 | 5372 | 2164 | 2157 | 18 | 144 | | | 5.76 | | |
| | 128 | 2188 | 2116 | 5372 | 5340 | 2156 | 2149 | 5 | 40 | | | 1.60 | | |
| 28-Feb | 128 | 2188 | 2116 | 5332 | 5236 | 2156 | 2149 | 13 | 104 | | 488 | 4.16 | 19.52 | 6.209 |
| | 129 | 2180 | 2108 | 5236 | 5372 | 2148 | 2141 | 18 | 144 | | | 5.76 | | |
| | 130 | 2172 | 2100 | 5372 | 5236 | 2140 | 2133 | 18 | 144 | | | 5.76 | | |
| | 131 | 2164 | 2092 | 5236 | 5324 | 2132 | 2125 | 12 | 96 | | | 3.84 | | |
| 1-Mar | 131 | 2164 | 2092 | 5332 | 5372 | 2132 | 2125 | 6 | 48 | | 544 | 1.92 | 21.76 | 6.921 |
| | 132 | 2156 | 2084 | 5372 | 5236 | 2124 | 2115 | 18 | 144 | | | 5.76 | | |
| | 133 | 2148 | 2076 | 5236 | 5372 | 2116 | 2109 | 18 | 144 | | | 5.76 | | |
| | 134 | 2140 | 2068 | 5372 | 5236 | 2108 | 2101 | 18 | 144 | | | 5.76 | | |
| | 135 | 2132 | 2060 | 5236 | 5292 | 2100 | 2093 | 8 | 64 | | | 2.56 | | |
| 2-Mar | 135 | 2132 | 2060 | 5300 | 5372 | 2100 | 2093 | 10 | 80 | | 576 | 3.20 | 23.04 | 7.329 |
| | 136 | 2124 | 2052 | 5372 | 5236 | 2092 | 2085 | 18 | 144 | | | 5.76 | | |
| | 137 | 2116 | 2044 | 5236 | 5372 | 2084 | 2075 | 18 | 144 | | | 5.76 | | |
| | 138 | 2108 | 2036 | 5372 | 5276 | 2076 | 2067 | 13 | 104 | | | 4.16 | | |
| | 139 | 2100 | 2028 | 5372 | 5276 | 2068 | 2061 | 13 | 104 | | | 4.16 | | |

Table 1. Acquisition Summary (continued)

| Date | Swath# | Rec. Line to | Rec. Line | Source Line to | Source Line | VP to | VP | # Traverses | # Production VPs | Overlap VP's | Total VPs per Day | Linear Kms | Daily Lin Km | Daily Sq Km |
|-------|--------|--------------|-----------|----------------|-------------|-------|------|-------------|------------------|--------------|-------------------|------------|--------------|-------------|
| 3-Mar | 138 | 2108 | 2036 | 5268 | 5236 | 2076 | 2067 | 5 | 40 | | 528 | 1.60 | 21.12 | 6.718 |
| | 139 | 2100 | 2028 | 5268 | 5236 | 2068 | 2061 | 5 | 40 | | | 1.60 | | |
| | 140 | 2092 | 2020 | 5236 | 5372 | 2060 | 2051 | 18 | 144 | | | 5.76 | | |
| | 141 | 2084 | 2012 | 5236 | 5372 | 2052 | 2045 | 18 | 144 | | | 5.76 | | |
| | 142 | 2076 | 2004 | 5372 | 5236 | 2044 | 2037 | 18 | 144 | | | 5.76 | | |
| | 143 | 2068 | 1996 | 5236 | | 2036 | 2029 | 1 | 8 | | | 0.32 | | |
| | 144 | 2060 | 1988 | 5236 | | 2028 | 2021 | 1 | 8 | | | 0.32 | | |
| 4-Mar | 143 | 2068 | 1996 | 5244 | 5372 | 2021 | 2028 | 17 | 136 | | 560 | 5.44 | 22.40 | 7.125 |
| | 144 | 2060 | 1988 | 5372 | 5244 | 2028 | 2021 | 17 | 136 | | | 5.44 | | |
| | 145 | 2052 | 1980 | 5236 | 5372 | 2020 | 2013 | 18 | 144 | | | 5.76 | | |
| | 146 | 2044 | 1972 | 5236 | 5372 | 2012 | 2005 | 18 | 144 | | | 5.76 | | |
| 5-Mar | 147 | 2036 | 1964 | 5236 | 5372 | 2004 | 1997 | 18 | 144 | | 608 | 5.76 | 24.32 | 7.736 |
| | 148 | 2028 | 1956 | 5326 | 5364 | 1996 | 1987 | 17 | 136 | | | 5.44 | | |
| | 149 | 2020 | 1948 | 5356 | 5236 | 1988 | 1981 | 16 | 128 | | | 5.12 | | |
| | 150 | 2012 | 1940 | 5236 | 5348 | 1980 | 1973 | 15 | 120 | | | 4.80 | | |
| | 151 | 2004 | 1932 | 5236 | 5268 | 1765 | 1972 | 5 | 40 | | | 1.60 | | |
| | 152 | 1996 | 1932 | 5236 | 5268 | 1957 | 1964 | 5 | 40 | | | 1.60 | | |
| 6-Mar | 151 | 2004 | 1932 | 5276 | 5340 | 1965 | 1972 | 9 | 72 | 160 | 488 | 2.88 | 13.12 | 4.173 |
| | 152 | 1996 | 1924 | 5276 | 5332 | 1964 | 1957 | 8 | 64 | | | 2.56 | | |
| | 153 | 1988 | 1916 | 5324 | 5236 | 1948 | 1941 | 11.875 | 95 | | | 3.80 | | |
| | 154 | 1980 | 1908 | 5308 | 5236 | 1948 | 1941 | 10 | 80 | | | 3.20 | | |
| | 155 | 1972 | 1900 | 5236 | 5244 | 1940 | 1933 | 1.625 | 13 | | | 0.52 | | |
| | 156 | 1964 | 1892 | 5236 | | 1940 | 1936 | 0.5 | 4 | | | 0.16 | | |
| 7-Mar | 162 | 2172 | 2132 | 5084 | 4996 | 2172 | 2165 | 12 | 96 | 344 | 712 | 3.84 | 14.72 | 4.682 |
| | 163 | 2172 | 2124 | 5084 | 4996 | 2164 | 2157 | 12 | 96 | | | 3.84 | | |
| | 164 | 2172 | 2116 | 5084 | 5004 | 2156 | 2149 | 11 | 88 | | | 3.52 | | |
| | 165 | 2172 | 2108 | 5084 | 5004 | 2148 | 2141 | 11 | 88 | | | 3.52 | | |
| 8-Mar | 162 | 2172 | 2132 | 4988 | | 2172 | 2165 | 1 | 8 | 280 | 776 | 0.32 | 19.84 | 6.311 |
| | 163 | 2172 | 2124 | 4988 | | 2164 | 2157 | 1 | 8 | | | 0.32 | | |
| | 164 | 2172 | 2116 | 4988 | 4996 | 2156 | 2149 | 2 | 16 | | | 0.64 | | |
| | 165 | 2172 | 2108 | 4988 | 4996 | 2148 | 2141 | 2 | 16 | | | 0.64 | | |
| | 166 | 2172 | 2100 | 4988 | 5084 | 2140 | 2133 | 13 | 104 | | | 4.16 | | |
| | 167 | 2164 | 2092 | 4988 | 5084 | 2132 | 2125 | 13 | 104 | | | 4.16 | | |
| | 168 | 2084 | 2156 | 5084 | 5012 | 2124 | 2117 | 10 | 80 | | | 3.20 | | |
| | 169 | 2148 | 2076 | 5084 | 5012 | 2116 | 2109 | 10 | 80 | | | 3.20 | | |
| | 170 | 2140 | 2068 | 5084 | 5012 | 2108 | 2101 | 10 | 80 | | | 3.20 | | |

Table 1. Acquisition Summary (continued)

| Date | Swath# | Rec. Line to | Rec Line | Source Line to | Source Line | VP to | VP | #Traverses | # Production VPs | Overlap VP's | Total VPs per Day | Linear Kms | Daily Lin Km | Daily Sq Km |
|--------|--------|--------------|----------|----------------|-------------|-------|------|------------|------------------|--------------|-------------------|------------|--------------|-------------|
| 9-Mar | 168 | 2084 | 2156 | 5004 | 4988 | 2124 | 2117 | 3 | 24 | 336 | 744 | 0.96 | 16.32 | 5.191 |
| | 169 | 2076 | 2148 | 5004 | 4988 | 2116 | 2109 | 3 | 24 | | | 0.96 | | |
| | 170 | 2068 | 2140 | 5004 | 4988 | 2108 | 2101 | 3 | 24 | | | 0.96 | | |
| | 171 | 2060 | 2132 | 4988 | 5084 | 2100 | 2093 | 13 | 104 | | | 4.16 | | |
| | 172 | 2052 | 2124 | 4988 | 5084 | 2092 | 2085 | 13 | 104 | | | 4.16 | | |
| | 173 | 2044 | 2116 | 4988 | 5084 | 2084 | 2077 | 13 | 104 | | | 4.16 | | |
| | 174 | 2036 | 2108 | 5084 | - | 2076 | 2069 | 1 | 8 | | | 0.32 | | |
| | 175 | 2028 | 2100 | 5084 | - | 2068 | 2061 | 1 | 8 | | | 0.32 | | |
| | 176 | 2020 | 2092 | 5084 | - | 2060 | 2053 | 1 | 8 | | | 0.32 | | |
| 10-Mar | 174 | 2036 | 2108 | 5076 | 4988 | 2076 | 2069 | 12 | 96 | 40 | 744 | 3.84 | 28.16 | 8.957 |
| | 175 | 2028 | 2100 | 5076 | 4988 | 2068 | 2061 | 12 | 96 | | | 3.84 | | |
| | 176 | 2020 | 2092 | 5076 | 4988 | 2060 | 2053 | 12 | 96 | | | 3.84 | | |
| | 177 | 2012 | 2084 | 4988 | 5084 | 2052 | 2045 | 13 | 104 | | | 4.16 | | |
| | 178 | 2004 | 2076 | 4988 | 5084 | 2044 | 2037 | 13 | 104 | | | 4.16 | | |
| | 179 | 1996 | 2068 | 4988 | 5084 | 2036 | 2029 | 13 | 104 | | | 4.16 | | |
| | 180 | 1988 | 2060 | 4988 | 5084 | 2028 | 2021 | 13 | 104 | | | 4.16 | | |
| 11-Mar | 186 | 1804 | 1844 | 5172 | 5140 | 1805 | 1812 | 5 | 40 | 496 | 616 | 1.60 | 4.80 | 1.527 |
| | 187 | 1804 | 1852 | 5172 | 5140 | 1813 | 1820 | 5 | 40 | | | 1.60 | | |
| | 188 | 1796 | 1860 | 5172 | 5140 | 1821 | 1828 | 5 | 40 | | | 1.60 | | |
| 12-Mar | 186 | 1804 | 1844 | 5132 | 5084 | 1805 | 1812 | 7 | 56 | | 706 | 2.24 | 28.24 | 8.983 |
| | 187 | 1804 | 1852 | 5132 | 5084 | 1813 | 1820 | 7 | 56 | | | 2.24 | | |
| | 188 | 1804 | 1860 | 5132 | 5084 | 1821 | 1828 | 7 | 56 | | | 2.24 | | |
| | 189 | 1804 | 1868 | 5084 | 5172 | 1829 | 1836 | 12 | 96 | | | 3.84 | | |
| | 190 | 1804 | 1876 | 5084 | 5172 | 1837 | 1844 | 12 | 96 | | | 3.84 | | |
| | 191 | 1812 | 1884 | 5084 | 5172 | 1845 | 1852 | 12 | 96 | | | 3.84 | | |
| | 192 | 1820 | 1892 | 5084 | 5172 | 1853 | 1860 | 12 | 96 | | | 3.84 | | |
| | 193 | 1828 | 1900 | 5172 | 5132 | 1861 | 1868 | 6 | 48 | | | 1.92 | | |
| | 194 | 1836 | 1908 | 5180 | 5132 | 1869 | 1876 | 6.125 | 49 | | | 1.96 | | |
| | 195 | 1844 | 1916 | 5188 | 5132 | 1877 | 1884 | 7.125 | 57 | | | 2.28 | | |
| 13-Mar | 193 | 1828 | 1900 | 5124 | 5084 | 1861 | 1868 | 6 | 48 | | 806 | 1.92 | 32.24 | 10.255 |
| | 194 | 1836 | 1908 | 5124 | 5084 | 1869 | 1876 | 6 | 48 | | | 1.92 | | |
| | 195 | 1844 | 1916 | 5124 | 5084 | 1877 | 1884 | 6 | 48 | | | 1.92 | | |
| | 196 | 1852 | 1924 | 5084 | 5196 | 1885 | 1892 | 14.25 | 114 | | | 4.56 | | |
| | 197 | 1860 | 1932 | 5084 | 5204 | 1893 | 1900 | 15.25 | 122 | | | 4.88 | | |
| | 198 | 1868 | 1940 | 5084 | 5212 | 1901 | 1908 | 16.375 | 131 | | | 5.24 | | |
| | 199 | 1876 | 1948 | 5220 | 5132 | 1909 | 1916 | 11.375 | 91 | | | 3.64 | | |
| | 200 | 1884 | 1956 | 5228 | 5132 | 1917 | 1924 | 12.5 | 100 | | | 4.00 | | |
| | 201 | 1892 | 1964 | 5228 | 5132 | 1925 | 1932 | 13 | 104 | | | 4.16 | | |

Table 1. Acquisition Summary (continued)

| Date | Swath# | Rec. Line to | Rec. Line | Source Line to | Source Line | VP to | VP | # Traverses | # Production VPs | Overlap VP's | Total VPs per Day | Linear Kms | Daily Lin Km | Daily Sq Km |
|--------|--------|--------------|-----------|----------------|-------------|-------|------|-------------|------------------|--------------|-------------------|------------|--------------|-------------|
| 14-Mar | 199 | 1876 | 1948 | 5124 | 5084 | 1909 | 1916 | 6 | 48 | | 672 | 1.92 | 26.88 | 8.550 |
| | 200 | 1884 | 1956 | 5124 | 5084 | 1917 | 1924 | 6 | 48 | | | 1.92 | | |
| | 201 | 1892 | 1964 | 5124 | 5084 | 1925 | 1932 | 6 | 48 | | | 1.92 | | |
| | 202 | 1900 | 1972 | 5084 | 5228 | 1933 | 1940 | 19 | 152 | | | 6.08 | | |
| | 203 | 1908 | 1980 | 5084 | 5228 | 1941 | 1948 | 19 | 152 | | | 6.08 | | |
| | 204 | 1916 | 1988 | 5228 | 5124 | 1949 | 1956 | 14 | 112 | | | 4.48 | | |
| | 205 | 1924 | 1996 | 5228 | 5124 | 1957 | 1964 | 14 | 112 | | | 4.48 | | |
| 15-Mar | 204 | 1916 | 1988 | 5116 | 5084 | 1949 | 1956 | 5 | 40 | | 696 | 1.60 | 27.84 | 8.855 |
| | 205 | 1924 | 1996 | 5116 | 5084 | 1957 | 1964 | 5 | 40 | | | 1.60 | | |
| | 206 | 1932 | 2004 | 5084 | 5228 | 1965 | 1972 | 19 | 152 | | | 6.08 | | |
| | 207 | 1940 | 2012 | 5228 | 5084 | 1973 | 1980 | 19 | 152 | | | 6.08 | | |
| | 208 | 1948 | 2020 | 5084 | 5228 | 1981 | 1988 | 19 | 152 | | | 6.08 | | |
| | 209 | 1956 | 2028 | 5084 | 5228 | 1989 | 1996 | 19 | 152 | | | 6.08 | | |
| | 210 | 1964 | 2036 | 5228 | - | 1997 | 2004 | 1 | 8 | | | 0.32 | | |
| 16-Mar | 210 | 1964 | 2036 | 5220 | 5084 | 1997 | 2004 | 18 | 144 | | 488 | 5.76 | 19.52 | 6.209 |
| | 211 | 1972 | 2044 | 5084 | 5228 | 2005 | 2012 | 19 | 152 | | | 6.08 | | |
| | 212 | 1980 | 2052 | 5084 | 5228 | 2013 | 2020 | 19 | 152 | | | 6.08 | | |
| | 213 | 1988 | 2060 | 5228 | 5196 | 2021 | 2028 | 5 | 40 | | | 1.60 | | |
| 17-Mar | 213 | 1988 | 2060 | 5188 | 5092 | 2021 | 2028 | 13 | 104 | 168 | 600 | 4.16 | 17.28 | 5.496 |
| | 214 | 1996 | 2068 | 5092 | 5228 | 2029 | 2036 | 18 | 144 | | | 5.76 | | |
| | 215 | 2004 | 2076 | 5092 | 5228 | 2037 | 2044 | 18 | 144 | | | 5.76 | | |
| | 216 | 2012 | 2084 | 5228 | 5196 | 2045 | 2052 | 5 | 40 | | | 1.60 | | |
| 18-Mar | 216 | 2012 | 2084 | 5188 | 5092 | 2045 | 2052 | 13 | 104 | 160 | 592 | 4.16 | 17.28 | 5.496 |
| | 217 | 2020 | 2092 | 5092 | 5228 | 2053 | 2060 | 18 | 144 | | | 5.76 | | |
| | 218 | 2028 | 2100 | 5092 | 5228 | 2061 | 2068 | 18 | 144 | | | 5.76 | | |
| | 219 | 2036 | 2108 | 5228 | 5196 | 2069 | 2076 | 5 | 40 | | | 1.60 | | |
| 19-Mar | 219 | 2036 | 2108 | 5188 | 5092 | 2069 | 2076 | 13 | 104 | 144 | 600 | 4.16 | 18.24 | 5.802 |
| | 220 | 2044 | 2116 | 5092 | 5228 | 2077 | 2084 | 18 | 144 | | | 5.76 | | |
| | 221 | 2052 | 2124 | 5092 | 5228 | 2085 | 2092 | 18 | 144 | | | 5.76 | | |
| | 222 | 2060 | 2132 | 5228 | 5172 | 2093 | 2100 | 8 | 64 | | | 2.56 | | |
| 20-Mar | 222 | 2060 | 2132 | 5164 | 5092 | 2093 | 2100 | 10 | 80 | 192 | 720 | 3.20 | 21.12 | 6.718 |
| | 223 | 2068 | 2140 | 5092 | 5228 | 2101 | 2108 | 18 | 144 | | | 5.76 | | |
| | 224 | 2076 | 2148 | 5092 | 5228 | 2109 | 2116 | 18 | 144 | | | 5.76 | | |
| | 225 | 2084 | 2156 | 5092 | 5228 | 2117 | 2124 | 18 | 144 | | | 5.76 | | |
| | 226 | 2092 | 2164 | 5228 | - | 2125 | 2132 | 1 | 8 | | | 0.32 | | |
| | 227 | 2100 | 2172 | 5228 | - | 2133 | 2140 | 1 | 8 | | | 0.32 | | |

Table 1. Acquisition Summary (continued)

| Date | Swath# | Rec. Line to | Rec. Line | Source Line to | Source Line | VP to | VP | # Traverses | # Production VPs | Overlap VP's | Total VPs per Day | Linear Kms | Daily Lin Km | Daily Sq Km |
|--------|--------|--------------|-----------|----------------|-------------|-------|------|-------------|------------------|--------------|-------------------|------------|--------------|-------------|
| 21-Mar | 226 | 2092 | 2164 | 5220 | 5092 | 2125 | 2132 | 17 | 136 | 192 | 672 | 5.44 | 19.20 | 6.107 |
| | 227 | 2100 | 2172 | 5220 | 5228 | 2133 | 2140 | 17 | 136 | | | 5.44 | | |
| | 228 | 2108 | 2180 | 5092 | 5188 | 2141 | 2148 | 13 | 104 | | | 4.16 | | |
| | 229 | 2116 | 2188 | 5092 | 5188 | 2149 | 2156 | 13 | 104 | | | 4.16 | | |
| 22-Mar | 228 | 2108 | 2180 | 5196 | 5228 | 2141 | 2148 | 5 | 40 | 96 | 576 | 1.60 | 19.20 | 6.107 |
| | 229 | 2116 | 2188 | 5196 | 5228 | 2149 | 2156 | 5 | 40 | | | 1.60 | | |
| | 230 | 2124 | 2196 | 5228 | 5092 | 2157 | 2164 | 18 | 144 | | | 5.76 | | |
| | 231 | 2132 | 2204 | 5228 | 5092 | 2165 | 2172 | 18 | 144 | | | 5.76 | | |
| | 232 | 2140 | 2212 | 5092 | 5140 | 2173 | 2180 | 7 | 56 | | | 2.24 | | |
| | 233 | 2148 | 2220 | 5092 | 5140 | 2181 | 2188 | 7 | 56 | | | 2.24 | | |
| 23-Mar | 232 | 2140 | 2212 | 5148 | 5228 | 2173 | 2180 | 11 | 88 | | 640 | 3.52 | 25.60 | 8.143 |
| | 233 | 2148 | 2220 | 5148 | 5228 | 2181 | 2188 | 11 | 88 | | | 3.52 | | |
| | 234 | 2156 | 2228 | 5228 | 5092 | 2189 | 2196 | 18 | 144 | | | 5.76 | | |
| | 235 | 2164 | 2236 | 5092 | 5228 | 2197 | 2204 | 18 | 144 | | | 5.76 | | |
| | 236 | 2172 | 2244 | 5092 | 5228 | 2205 | 2212 | 18 | 144 | | | 5.76 | | |
| | 237 | 2180 | 2252 | 5228 | 5220 | 2213 | 2220 | 2 | 16 | | | 0.64 | | |
| | 238 | 2188 | 2260 | 5228 | 5220 | 2221 | 2228 | 2 | 16 | | | 0.64 | | |
| 24-Mar | 237 | 2180 | 2252 | 5212 | 5092 | 2213 | 2220 | 16 | 128 | | 608 | 5.12 | 24.32 | 7.736 |
| | 238 | 2188 | 2260 | 5212 | 5092 | 2221 | 2228 | 16 | 128 | | | 5.12 | | |
| | 239 | 2196 | 2268 | 5092 | 5228 | 2229 | 2236 | 18 | 144 | | | 5.76 | | |
| | 240 | 2204 | 2276 | 5092 | 5228 | 2237 | 2244 | 18 | 144 | | | 5.76 | | |
| | 241 | 2212 | 2284 | 5228 | 5204 | 2245 | 2252 | 4 | 32 | | | 1.28 | | |
| | 242 | 2220 | 2292 | 5228 | 5204 | 2253 | 2260 | 4 | 32 | | | 1.28 | | |
| 25-Mar | 241 | 2212 | 2284 | 5196 | 5092 | 2245 | 2252 | 14 | 112 | | 666 | 4.48 | 26.64 | 8.474 |
| | 242 | 2220 | 2292 | 5196 | 5092 | 2253 | 2260 | 14 | 112 | | | 4.48 | | |
| | 243 | 2228 | 2300 | 5092 | 5228 | 2261 | 2268 | 18 | 144 | | | 5.76 | | |
| | 244 | 2236 | 2308 | 5092 | 5228 | 2269 | 2276 | 18 | 144 | | | 5.76 | | |
| | 245 | 2244 | 2316 | 5228 | 5156 | 2277 | 2284 | 9.25 | 74 | | | 2.96 | | |
| | 246 | 2252 | 2324 | 5228 | 5156 | 2285 | 2292 | 10 | 80 | | | 3.20 | | |
| 26-Mar | 245 | 2244 | 2316 | 5156 | 5092 | 2277 | 2284 | 8.75 | 70 | | 678 | 2.80 | 27.12 | 8.626 |
| | 246 | 2252 | 2324 | 5148 | 5092 | 2285 | 2292 | 8 | 64 | | | 2.56 | | |
| | 247 | 2260 | 2332 | 5092 | 5228 | 2293 | 2300 | 18 | 144 | | | 5.76 | | |
| | 248 | 2268 | 2340 | 5092 | 5228 | 2301 | 2308 | 18 | 144 | | | 5.76 | | |
| | 249 | 2276 | 2348 | 5228 | 5108 | 2309 | 2316 | 16 | 128 | | | 5.12 | | |
| | 250 | 2284 | 2356 | 5228 | 5108 | 2317 | 2324 | 16 | 128 | | | 5.12 | | |

Table 1. Acquisition Summary (continued)

| Date | Swath# | Rec. Line to | Rec Line | Source Line to | Source Line | VP to | VP | # Traverses | # Production VPs | Overlap VP's | Total VPs per Day | Linear Kms | Daily Lin Km | Daily Sq Km |
|--------|--------|--------------|----------|----------------|-------------|-------|------|-------------|------------------|--------------|-------------------|------------|--------------|-------------|
| 27-Mar | 249 | 2276 | 2348 | 5100 | 5092 | 2309 | 2316 | 2 | 16 | | 576 | 0.64 | 23.04 | 7.329 |
| | 250 | 2284 | 2356 | 5100 | 5092 | 2317 | 2324 | 2 | 16 | | | 0.64 | | |
| | 251 | 2292 | 2364 | 5092 | 5228 | 2325 | 2332 | 18 | 144 | | | 5.76 | | |
| | 252 | 2300 | 2372 | 5092 | 5228 | 2333 | 2340 | 18 | 144 | | | 5.76 | | |
| | 253 | 2308 | 2380 | 5228 | 5092 | 2341 | 2348 | 18 | 144 | | | 5.76 | | |
| | 254 | 2316 | 2388 | 5092 | 5140 | 2349 | 2356 | 7 | 56 | | | 2.24 | | |
| | 255 | 2324 | 2396 | 5092 | 5140 | 2357 | 2364 | 7 | 56 | | | 2.24 | | |
| 28-Mar | 254 | 2316 | 2388 | 5148 | 5228 | 2349 | 2356 | 11 | 88 | | 624 | 3.52 | 24.96 | 7.939 |
| | 255 | 2324 | 2396 | 5148 | 5228 | 2357 | 2364 | 11 | 88 | | | 3.52 | | |
| | 256 | 2332 | 2404 | 5228 | 5092 | 2365 | 2372 | 18 | 144 | | | 5.76 | | |
| | 257 | 2340 | 2412 | 5092 | 5228 | 2373 | 2380 | 18 | 144 | | | 5.76 | | |
| | 258 | 2348 | 2420 | 5092 | 5228 | 2381 | 2388 | 18 | 144 | | | 5.76 | | |
| | 259 | 2356 | 2428 | 5228 | 5220 | 2389 | 2396 | 2 | 16 | | | 0.64 | | |
| 29-Mar | 259 | 2356 | 2428 | 5212 | 5196 | 2389 | 2396 | 3 | 24 | | 24 | 0.96 | 0.96 | 0.305 |
| 30-Mar | 259 | 2356 | 2428 | 5188 | 5092 | 2389 | 2396 | 13 | 104 | | 568 | 4.16 | 22.72 | 7.227 |
| | 260 | 2364 | 2436 | 5092 | 5228 | 2397 | 2404 | 18 | 144 | | | 5.76 | | |
| | 261 | 2372 | 2444 | 5092 | 5228 | 2405 | 2412 | 18 | 144 | | | 5.76 | | |
| | 262 | 2380 | 2452 | 5228 | 5148 | 2413 | 2420 | 11 | 88 | | | 3.52 | | |
| | 263 | 2388 | 2460 | 5228 | 5148 | 2421 | 2428 | 11 | 88 | | | 3.52 | | |
| 31-Mar | 262 | 2380 | 2452 | 5140 | 5092 | 2413 | 2420 | 7 | 56 | | 568 | 2.24 | 22.72 | 7.227 |
| | 263 | 2388 | 2460 | 5140 | 5092 | 2421 | 2428 | 7 | 56 | | | 2.24 | | |
| | 264 | 2396 | 2468 | 5092 | 5228 | 2429 | 2436 | 18 | 144 | | | 5.76 | | |
| | 265 | 2404 | 2476 | 5228 | 5092 | 2437 | 2444 | 18 | 144 | | | 5.76 | | |
| | 266 | 2412 | 2484 | 5092 | 5172 | 2445 | 2452 | 11 | 88 | | | 3.52 | | |
| | 267 | 2420 | 2492 | 5092 | 5164 | 2453 | 2460 | 10 | 80 | | | 3.20 | | |
| 1-Apr | 266 | 2412 | 2484 | 5180 | 5228 | 2445 | 2452 | 7 | 56 | | 568 | 2.24 | 22.72 | 7.227 |
| | 267 | 2420 | 2492 | 5172 | 5228 | 2453 | 2460 | 8 | 64 | | | 2.56 | | |
| | 268 | 2428 | 2500 | 5228 | 5092 | 2461 | 2468 | 18 | 144 | | | 5.76 | | |
| | 269 | 2436 | 2508 | 5228 | 5092 | 2469 | 2476 | 18 | 144 | | | 5.76 | | |
| | 270 | 2444 | 2516 | 5092 | 5164 | 2477 | 2484 | 10 | 80 | | | 3.20 | | |
| | 271 | 2452 | 2524 | 5092 | 5164 | 2485 | 2492 | 10 | 80 | | | 3.20 | | |
| 2-Apr | 270 | 2444 | 2516 | 5172 | 5228 | 2477 | 2484 | 8 | 64 | | 656 | 2.56 | 26.24 | 8.346 |
| | 271 | 2452 | 2524 | 5172 | 5228 | 2485 | 2492 | 8 | 64 | | | 2.56 | | |
| | 272 | 2460 | 2532 | 5228 | 5092 | 2493 | 2500 | 18 | 144 | | | 5.76 | | |
| | 273 | 2468 | 2540 | 5228 | 5092 | 2501 | 2508 | 18 | 144 | | | 5.76 | | |
| | 274 | 2476 | 2548 | 5092 | 5204 | 2509 | 2516 | 15 | 120 | | | 4.80 | | |
| | 275 | 2484 | 2556 | 5092 | 5204 | 2517 | 2524 | 15 | 120 | | | 4.80 | | |

Table 1. Acquisition Summary (continued)

| Date | Swath# | Rec. Line to | Rec Line | Source Line to | Source Line | VP to | VP | #Traverses | # Production VPs | Overlap VP's | Total VPs per Day | Linear Kms | Daily Lin Km | Daily Sq Km |
|-------|--------|--------------|----------|----------------|-------------|-------|------|------------|------------------|--------------|-------------------|------------|--------------|-------------|
| 3-Apr | 274 | 2476 | 2548 | 5212 | 5228 | 2509 | 2516 | 3 | 24 | | 624 | 0.96 | 24.96 | 7.939 |
| | 275 | 2484 | 2556 | 5212 | 5228 | 2517 | 2524 | 3 | 24 | | | 0.96 | | |
| | 276 | 2492 | 2564 | 5228 | 5092 | 2525 | 2532 | 18 | 144 | | | 5.76 | | |
| | 277 | 2500 | 2572 | 5228 | 5092 | 2533 | 2540 | 18 | 144 | | | 5.76 | | |
| | 278 | 2508 | 2580 | 5092 | 5228 | 2541 | 2548 | 18 | 144 | | | 5.76 | | |
| | 279 | 2516 | 2588 | 5092 | 5228 | 2549 | 2556 | 18 | 144 | | | 5.76 | | |
| 4-Apr | 280 | 2524 | 2596 | 5228 | 5092 | 2557 | 2564 | 18 | 144 | | 640 | 5.76 | 25.60 | 8.143 |
| | 281 | 2532 | 2604 | 5228 | 5092 | 2565 | 2572 | 18 | 144 | | | 5.76 | | |
| | 282 | 2540 | 2612 | 5092 | 5228 | 2573 | 2580 | 18 | 144 | | | 5.76 | | |
| | 283 | 2548 | 2620 | 5092 | 5228 | 2581 | 2588 | 18 | 144 | | | 5.76 | | |
| | 284 | 2556 | 2628 | 5228 | 5204 | 2589 | 2596 | 4 | 32 | | | 1.28 | | |
| | 285 | 2564 | 2636 | 5228 | 5204 | 2597 | 2604 | 4 | 32 | | | 1.28 | | |
| 5-Apr | 284 | 2556 | 2628 | 5196 | 5092 | 2589 | 2596 | 14 | 112 | | 656 | 4.48 | 26.24 | 8.346 |
| | 285 | 2564 | 2636 | 5196 | 5092 | 2597 | 2604 | 14 | 112 | | | 4.48 | | |
| | 286 | 2572 | 2644 | 5092 | 5228 | 2605 | 2612 | 18 | 144 | | | 5.76 | | |
| | 287 | 2580 | 2652 | 5092 | 5228 | 2613 | 2620 | 18 | 144 | | | 5.76 | | |
| | 288 | 2588 | 2660 | 5228 | 5164 | 2621 | 2628 | 9 | 72 | | | 2.88 | | |
| | 289 | 2596 | 2668 | 5228 | 5164 | 2629 | 2636 | 9 | 72 | | | 2.88 | | |
| 6-Apr | 288 | 2588 | 2660 | 5156 | 5092 | 2621 | 2628 | 9 | 72 | | 648 | 2.88 | 25.92 | 8.245 |
| | 289 | 2596 | 2668 | 5156 | 5092 | 2629 | 2636 | 9 | 72 | | | 2.88 | | |
| | 290 | 2604 | 2676 | 5092 | 5228 | 2637 | 2644 | 18 | 144 | | | 5.76 | | |
| | 291 | 2612 | 2684 | 5092 | 5228 | 2645 | 2652 | 18 | 144 | | | 5.76 | | |
| | 292 | 2620 | 2692 | 5228 | 5092 | 2653 | 2660 | 18 | 144 | | | 5.76 | | |
| | 293 | 2628 | 2700 | 5092 | 5124 | 2661 | 2668 | 5 | 40 | | | 1.60 | | |
| | 294 | 2636 | 2708 | 5092 | 5116 | 2669 | 2676 | 4 | 32 | | | 1.28 | | |
| 7-Mar | 293 | 2628 | 2700 | 5132 | 5228 | 2661 | 2668 | 13 | 104 | | 648 | 4.16 | 25.92 | 8.245 |
| | 294 | 2636 | 2708 | 5124 | 5228 | 2669 | 2676 | 14 | 112 | | | 4.48 | | |
| | 295 | 2644 | 2716 | 5228 | 5092 | 2677 | 2684 | 18 | 144 | | | 5.76 | | |
| | 296 | 2652 | 2724 | 5092 | 5228 | 2685 | 2692 | 18 | 144 | | | 5.76 | | |
| | 297 | 2660 | 2732 | 5092 | 5228 | 2693 | 2700 | 18 | 144 | | | 5.76 | | |
| 8-Apr | 298 | 2668 | 2740 | 5300 | 5092 | 2701 | 2708 | 27 | 216 | | 616 | 8.64 | 24.64 | 7.837 |
| | 299 | 2676 | 2748 | 5092 | 5284 | 2709 | 2716 | 25 | 200 | | | 8.00 | | |
| | 300 | 2684 | 2756 | 5092 | 5284 | 2717 | 2724 | 25 | 200 | | | 8.00 | | |
| 9-Apr | 299 | 2676 | 2748 | 5292 | 5300 | 2709 | 2716 | 2 | 16 | | 720 | 0.64 | 28.80 | 9.161 |
| | 300 | 2684 | 2756 | 5292 | 5300 | 2717 | 2724 | 2 | 16 | | | 0.64 | | |
| | 301 | 2692 | 2764 | 5300 | 5092 | 2725 | 2732 | 27 | 216 | | | 8.64 | | |
| | 302 | 2700 | 2772 | 5300 | 5092 | 2733 | 2740 | 27 | 216 | | | 8.64 | | |
| | 303 | 2708 | 2780 | 5092 | 5212 | 2741 | 2748 | 16 | 128 | | | 5.12 | | |
| | 304 | 2716 | 2788 | 5092 | 5212 | 2749 | 2756 | 16 | 128 | | | 5.12 | | |

Table 1. Acquisition Summary (continued)

| Date | Swath# | Rec. Line to | Rec Line | Source Line to | Source Line | VP to | VP | #Traverses | # Production VPs | Overlap VP's | Total VPs per Day | Linear Kms | Daily Lin Km | Daily Sq Km |
|--------------|--------|--------------|----------|----------------|-------------|-------|------|-------------|------------------|--------------|-------------------|----------------|----------------|----------------|
| 10-Apr | 303 | 2708 | 2780 | 5220 | 5300 | 2741 | 2748 | 11 | 88 | | 688 | 3.52 | 27.52 | 8.754 |
| | 304 | 2716 | 2788 | 5220 | 5300 | 2749 | 2756 | 11 | 88 | | | 3.52 | | |
| | 305 | 2724 | 2796 | 5300 | 5092 | 2757 | 2764 | 27 | 216 | | | 8.64 | | |
| | 306 | 2732 | 2804 | 5300 | 5092 | 2765 | 2772 | 27 | 216 | | | 8.64 | | |
| | 307 | 2740 | 2812 | 5092 | 5124 | 2773 | 2780 | 5 | 40 | | | 1.60 | | |
| | 308 | 2748 | 2820 | 5092 | 5124 | 2781 | 2788 | 5 | 40 | | | 1.60 | | |
| 11-Apr | 307 | 2740 | 2812 | 5132 | 5300 | 2773 | 2780 | 22 | 176 | | 752 | 7.04 | 30.08 | 9.568 |
| | 308 | 2748 | 2820 | 5132 | 5300 | 2781 | 2788 | 22 | 176 | | | 7.04 | | |
| | 309 | 2756 | 2828 | 5300 | 5108 | 2789 | 2796 | 25 | 200 | | | 8.00 | | |
| | 310 | 2764 | 2836 | 5300 | 5108 | 2797 | 2804 | 25 | 200 | | | 8.00 | | |
| 12-Apr | 309 | 2756 | 2828 | 5100 | 5092 | 2789 | 2796 | 2 | 16 | | 672 | 0.64 | 26.88 | 8.550 |
| | 310 | 2764 | 2836 | 5100 | 5092 | 2797 | 2804 | 2 | 16 | | | 0.64 | | |
| | 311 | 2772 | 2844 | 5092 | 5300 | 2805 | 2812 | 27 | 216 | | | 8.64 | | |
| | 312 | 2780 | 2852 | 5092 | 5300 | 2813 | 2820 | 27 | 216 | | | 8.64 | | |
| | 313 | 2788 | 2860 | 5300 | 5204 | 2821 | 2828 | 13 | 104 | | | 4.16 | | |
| | 314 | 2796 | 2868 | 5300 | 5204 | 2829 | 2836 | 13 | 104 | | | 4.16 | | |
| 13-Apr | 313 | 2788 | 2860 | 5196 | 5092 | 2821 | 2828 | 14 | 112 | | 720 | 4.48 | 28.80 | 9.161 |
| | 314 | 2796 | 2868 | 5196 | 5092 | 2829 | 2836 | 14 | 112 | | | 4.48 | | |
| | 315 | 2804 | 2876 | 5092 | 5300 | 2837 | 2844 | 27 | 216 | | | 8.64 | | |
| | 316 | 2812 | 2884 | 5092 | 5300 | 2845 | 2852 | 27 | 216 | | | 8.64 | | |
| | 317 | 2820 | 2892 | 5300 | 5276 | 2853 | 2860 | 4 | 32 | | | 1.28 | | |
| | 318 | 2828 | 2892 | 5300 | 5276 | 2861 | 2868 | 4 | 32 | | | 1.28 | | |
| 14-Apr | 317 | 2820 | 2892 | 5268 | 5092 | 2853 | 2860 | 23 | 184 | | 728 | 7.36 | 29.12 | 9.262 |
| | 318 | 2828 | 2892 | 5268 | 5092 | 2861 | 2868 | 23 | 184 | | | 7.36 | | |
| | 319 | 2836 | 2892 | 5092 | 5204 | 2869 | 2876 | 15 | 120 | | | 4.80 | | |
| | 320 | 2844 | 2892 | 5092 | 5204 | 2877 | 2884 | 15 | 120 | | | 4.80 | | |
| | 321 | 2852 | 2892 | 5092 | 5204 | 2885 | 2892 | 15 | 120 | | | 4.80 | | |
| 15-Apr | 319 | 2836 | 2892 | 5212 | 5300 | 2869 | 2876 | 12 | 96 | | 288 | 3.84 | 11.52 | 3.664 |
| | 320 | 2844 | 2892 | 5212 | 5300 | 2877 | 2884 | 12 | 96 | | | 3.84 | | |
| | 321 | 2852 | 2892 | 5212 | 5300 | 2885 | 2892 | 12 | 96 | | | 3.84 | | |
| TOTAL | | | | | | | | 4872 | 38976 | 7588 | 46564 | 1559.04 | 1559.04 | 495.900 |

2.2. Permitting

PIRSA was notified about the survey on 19th October 2006 and an application for Associated Facilities Licences (AFLs) was submitted to PIRSA on 26th October 2006. Eleven Associated Facilities Licences (AFL#71 to AFL#81) were obtained in order to allow the seismic acquisition and were surrendered post-survey. The Spinel 3D Survey

was located on the Mungeranie, Gidgealpa and Clifton Hills pastoral leases. The station managers were advised of the survey with Notices of Entry dated 30th October 2006. Santos, as operator of adjacent PPLs and as provider of the local road access network, was also notified with a Notice of Entry. Permitting was carried out by Mr Bruce Beer.

2.3. Cultural Heritage Clearance

Great Artesian Oil and Gas has an Ancillary Agreement with the Dieri Aboriginal Corporation (DAC). The Dieri are the Native Title claimants over various portions of the survey area and, under the agreement, consultations and field inspection of proposed line locations are required prior to conducting any fieldwork. In accordance with the Agreement a written request for clearance was made through Mr Stephen Kenny, a legal representative for the DAC, in correspondence dated 7th August 2006. The first field inspection related to the southern part of the proposed Spinel 3D Survey and was conducted between the 18th and 29th September 2006. The second inspection, related to the northern part of the survey, took place between the 13th and 23rd October 2006.

The following DAC representatives conducted the first part of the Spinel 3D clearance survey:

Male: Phillip Stuart, Jeffrey Naylor and Garron Stuart
Female: Rene Warren, Debra Bates and Marjorie Warren.

The following DAC representatives conducted the second part of the clearance survey:

Male: Richard Edge, Zane Kemp and Kenneth Dawson
Female: Rene Kemp, Melissa Landers and Patsy Gepp.

Great Artesian's representative, Tom Hedditch, and a research team from the University of Adelaide (D. Fergie, T. Doulman, M. Maeorg and J. Scott) attended as specialists to make a record of the Work Area Clearance (WAC) process and to provide the results of library and archival research on the aboriginal history and cultural significance of the area.

From a base camp at the Sellicks production facility the survey was conducted in three 4WD vehicles using existing tracks and earlier seismic lines to access the sites of proposed work as appropriate. Proposed seismic lines were driven, in whole or part, guided by a mapping program (OziExplorer) located on laptop computers in each of the three vehicles. Progress along lines could be tracked on screen using the appropriate topographic map onto which the proposed lines of the 3D grid had been plotted. The specialists were also assisted in the field by the use of hand-held Global Positioning System (GPS) receivers.

At various points members of the WAC team would survey portions of a proposed line on foot. In some instances, archaeological materials were moved from a proposed work

area (or its vicinity) and relocated at a distance. Daily briefings were held to assess the previous day's progress and to plan work for the current day.

The field inspection was followed by a report from the technical specialists detailing the clearances and specific exclusions. The Spinel 3D survey area was then approved for commencement, subject to specified conditions including deviations, forced points and exclusions.

2.4. *Line Preparation and Survey*

Line clearing was performed by Terrex Contracting (TC). Line surveying was sub-contracted to Dynamic Satellite Surveys (DSS). Line preparation took place between December 15th, 2006 and March 27th, 2007. The survey consisted of 62 source lines totalling 1555.92 km, surveyed at 40 m station intervals and 137 receiver lines totalling 1559.88 km, also surveyed at 40 m station intervals. The total area surveyed was approximately 500 km².

There were ten Environmental Monitoring Points (EMP) placed and coordinated on the job. These are shown on Figure 4 and listed in Table 2.

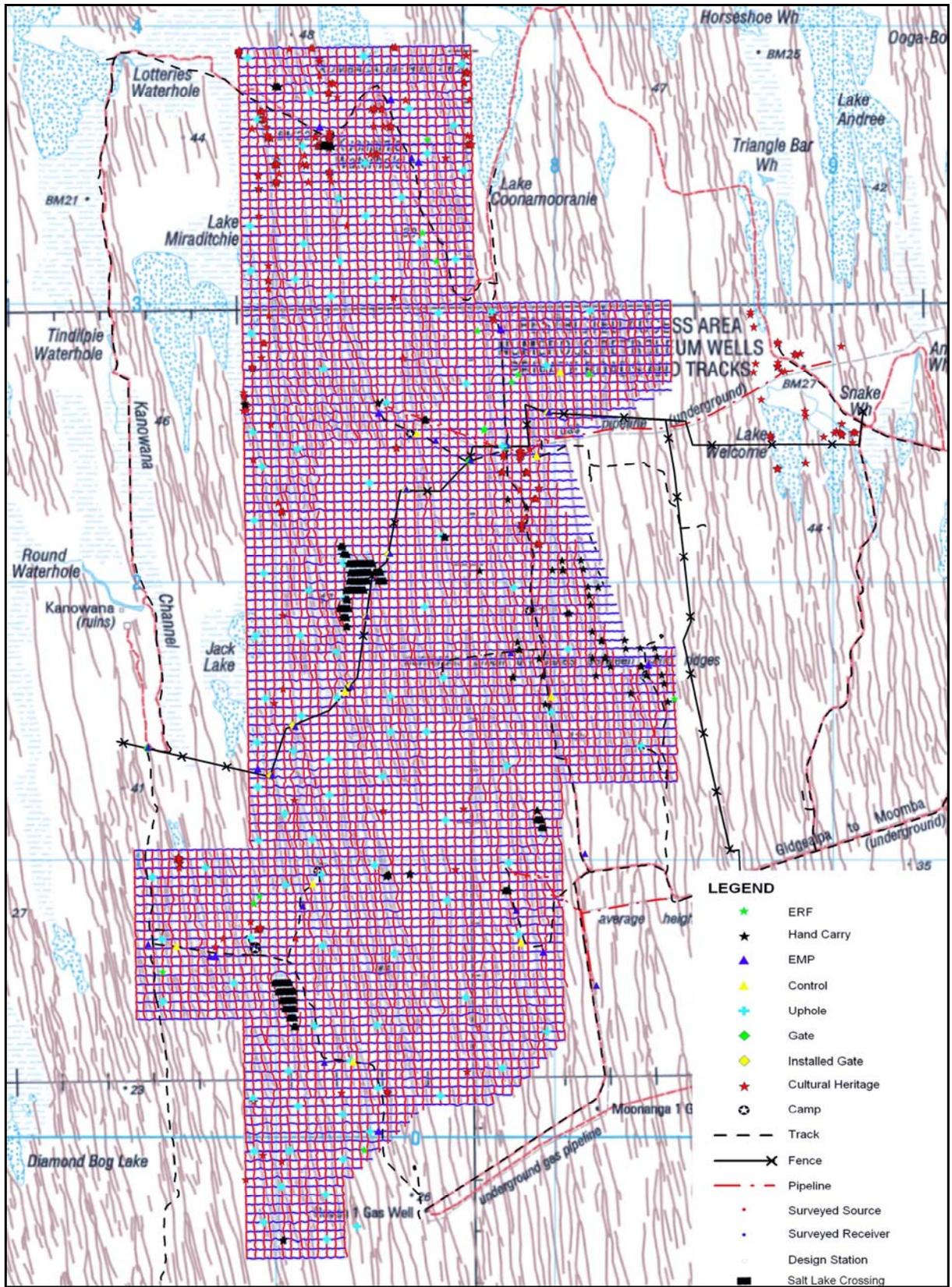


Figure 4. Spinel 3D survey logistics map

Table 2. Environmental Monitoring Points

| ID | Easting | Northing | S intersect R |
|-----------|----------------|-----------------|----------------------|
| EMP1 | 383331 | 6916998 | S5452 x R2332 |
| EMP2 | 378032 | 6929085 | S5324 x R2636 |
| EMP3 | 373653 | 6926072 | S5212 x R2564 |
| EMP4 | 379556 | 6906657 | S5348 x R2076 |
| EMP5 | 373642 | 6900209 | S5204 x R1916 |
| EMP6 | 367784 | 6906506 | S5060 x R2076 |
| EMP7 | 369316 | 6913268 | S5100 x R2244 |
| EMP8 | 375084 | 6935109 | S5252 x R2788 |
| EMP9 | 374085 | 6937339 | S5228 x R2844 |
| EMP10 | 371538 | 6936642 | S5164 x R2820 |

The datum point for the survey was an old Permanent Marker (PM) that had been surveyed as part of the control network for the Paranta 3D Seismic Survey. Other original PMs encountered during the survey were recorded to provide a check on the datum within the survey area. These are listed in Table 3.

Table 3. Spinel 3D Survey Control Points

| Station | Easting | Northing | AHD | Comment |
|----------------|------------------|-------------------|--------------|--------------------------------|
| GA02 | 379852.33 | 6915876.30 | 44.23 | DATUM - 2004 Paranta 3D |
| KA03 | 375031.98 | 6925359.89 | 40.97 | |
| SP01 | 379313.71 | 6924534.38 | 33.68 | |
| SP02 | 372437.80 | 6916046.49 | 43.11 | |
| SP03 | 378765.68 | 6907002.13 | 38.08 | |
| SP04 | 372730.18 | 6902721.35 | 35.14 | |
| SP05 | 366387.06 | 6906861.28 | 32.51 | |
| SP06 | 371302.26 | 6909140.04 | 39.13 | |
| SP07 | 370473.66 | 6897239.16 | 40.88 | |
| TP100 | 380158.80 | 6927560.67 | 34.04 | Temporary base |

Information on the survey methods, survey reference systems and survey control is included in Appendix 3.

2.5. Environment

The 2007 Spinel 3D Seismic Survey was conducted under the “Statement of Environmental Objectives” (SEO) published by PIRSA, which provided objectives and measurements for preparation and use of seismic lines in order to minimise environmental impact and maximise rehabilitation. The dozer operators and surveyors were all competent in the techniques required to meet these objectives.

The terrain within the parts of PEL 106 and PEL 91 covered by the Spinel 3D largely consists of sand dunes with a north south orientation, floodplains, clay pans and salt lakes. Since the source lines were north-south oriented and almost parallel to the dunes, a special procedure was adopted to minimise the impact on dunes. To avoid long diagonal cuts through dunes, the source lines followed the swales between the dunes and the receiver lines were used for dune crossings, where necessary. This reduced the line cutting required on source lines and minimised the number of dune crossings that needed to be cut.

The lines were cut in an environmentally sensitive manner and were generally easily navigated. Due to the nature of the terrain, much blade work was required to navigate sand dunes. The line preparation crew had reduced the environmental footprint by using old lines to cross dunes rather than cut new ones, wherever possible. The main issues addressed in cutting lines were cultural heritage sites and pipelines.

Heritage sites that had been found and recorded by the WAC team were plotted on the field map and GPS systems. The coordinates of each waypoint necessary to avoid a heritage site were included in the navigation file on each dozer and no site was disturbed. Any cultural heritage sites found after the original cultural heritage clearance process were documented with an Environmental Report Form (ERF). Thirteen ERFs were prepared for sites within the area of the Spinel survey. The ERFs (ERF#GAS07-01 to ERF#GAS07-14) are provided in the Appendix to the Environmental Impact Report.

All lines that crossed a pipeline were not vibrated within 50 m on either side. Where roads and tracks were encountered, dog legs were installed to minimise the visual impact of the seismic lines. There was only one fence in the whole survey, the boundary between the Clifton Hills Station to the northwest and Mungeranie station to the southeast. Several lines crossed the fence and seven drop gates were installed. These were removed after the job.

In summary, the environmental impact aspects of the Spinel 3D Seismic Survey met all accepted guidelines and objectives. The Environmental Impact Report for the Spinel survey was submitted to PIRSA as part of the PEL 106 Year 4 Annual Report, on the 7th June 2006. It is also included in this report as Appendix 5.

2.6. Health and Safety

Safety received a high priority from Great Artesian, Terrex Seismic and all sub-contractors during the Spinel 3D Seismic Survey. All personnel were aware of safety conditions concerning exploration seismic surveys. Each vehicle was fitted with a HF and UHF radio, shovel, fire extinguisher, first-aid kit and vehicle recovery equipment. Weekly vehicle maintenance check lists were completed.

UHF radio contact was always available between surveyors and the line clearing contractors. Regular contact was made throughout each day, which helped ensure trouble-free operations. It was standard procedure for personnel to notify others before leaving the field.

Daily toolbox meetings were a venue for any safety concerns which personnel encountered during the previous day and ensured everyone was informed about planned lines and progress. Weekly safety meetings were conducted with all personnel at fly camp. Table 4 summarises some key safety statistics for the project.

Table 4. Safety Statistics

| | |
|-------------------------------------|----------|
| Terrex Seismic Man-hours | 46356.00 |
| Sub-Contractor Man-hours | 13680.00 |
| Fatalities | 0 |
| LTI | 0 |
| MTI | 3 |
| First Aid Incidents | 4 |
| Incident / Accident Reports | 6 |
| Work Days Lost | 27 |
| Hazard Identification Reports | 18 |
| Training Hours | 921.00 |
| Tool Box / Safety Meeting Man-hours | 955.65 |
| Audits / Inspections | 936 |
| Drills | 2 |
| Land Spills (< 5 litres) | 0 |

2.7. Recording Operations

Terrex Seismic was selected as the Vibroseis seismic data acquisition contractor for this project. The survey commenced on 29th January and was completed on the 15th April 2007. The full Seismic Acquisition Report is presented in Appendix 2. The acquisition parameters are listed below, in Table 5.

Table 5. Acquisition Parameters

| Instrumentation | |
|------------------------|--|
| Instruments | Sercel 428 |
| No. Channels | 1120 (10 lines of 112) |
| Tape Format | SEGD Revision 1, 8058IEEE Demultiplexed, Dual recorded, noise edited correlated (4sec) sum |
| Filters | Hi cut 200 Hz, (0.8 Nyquist – Linear phase) 288 db/octave, Low cut: out |
| Sample Rate | 2 msec |
| Record Length | 4 sec correlated (9 sec uncorrelated) |
| Noise Edit | Burst plus Diversity |
| Correlation Type | Real Time Zero Phase, After Sum |
| Phase | SEG Standard |

| Source Parameters | |
|--------------------------|--|
| Vibrators | 1 group of 3 x I/O AHV IVs |
| Electronics | VibePro Advance III |
| Sweep Frequency | 5-90 Hz |
| Sweep Length | 5 sec |
| Sweep Function | Linear Upsweep |
| No. Sweeps | 2 standing |
| VP Interval | 40 m |
| Source Line Interval | 320 m |
| Source Line Bearing | 359.2° |
| Vibrator Array | 3 vibes in line, P-P 12.5 m, 2 standing sweeps, centred on peg |
| Sweep Amplitude Taper | 100% (none) |
| Drive Level | 90% varied by amplitude control function |
| End Tapers (cosine) | 0.2 sec |
| Phase Locking Type | Ground Force |
| Amplitude Control | Peak to Peak |

| Receiver Parameters | |
|----------------------------|--------------------|
| Manuf/Model/Res Freq | Sensor SM4 10 Hz |
| No/String/Connection | 12/Series-Parallel |
| VP Interval | 40 m |
| Source Line Interval | 320 m |
| Receiver Line Bearing | 89.2° |
| Offset Range | 28.3 – 2724.9 m |

| Field Parameters | |
|-------------------------|---|
| Receiver Location | Centred on stations |
| Receiver Array Length | 12 geophones in line, 2.08m element spacing, 25 m array |
| Spread Geometry | Split, source between groups 56 and 57 on each line |
| Fold | 35 (7 in-line and 5 cross-line) |

The general survey details are as presented below.

- Recorded: January to April 2007 by Terrex Seismic Pty Ltd
- Source type: Vibroseis, sweep 5-90 Hz
- Records: 4 sec at 2 ms
- Source lines: 62 lines totalling 1555.92 km, 320m interval
- Source line numbers: S4988 to S5476, incrementing by 8
- Receiver lines: 137 lines totalling 1559.88 km, 320m interval
- Receiver line numbers: R1804 to R2892, incrementing by 8
- Source recorded into a patch of 10 receiver lines, each having 112 live channels
- Source between channels 56 & 57 and lines 5 & 6
- Inline Offset – 2200m, Crossline Offset – 1580m
- Surface area: 495.9 km²
- Subsurface coverage: 35-fold in 20 m X 20 m bins

Figure 5 shows the normal vibrator array and Figure 6 the normal geophone array for the Spinel 3D.

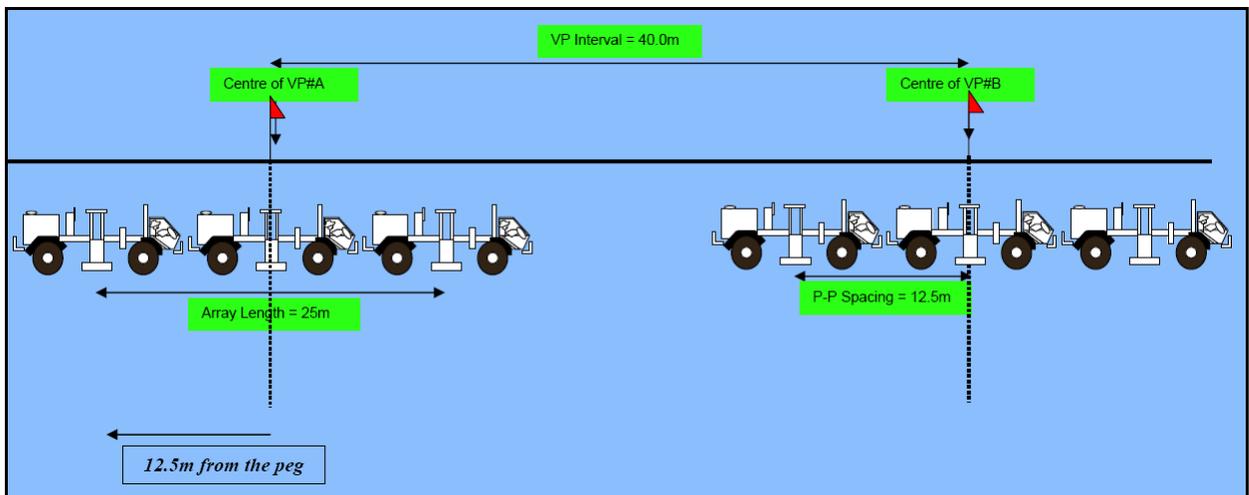


Figure 5. Spinel 3D vibrator array

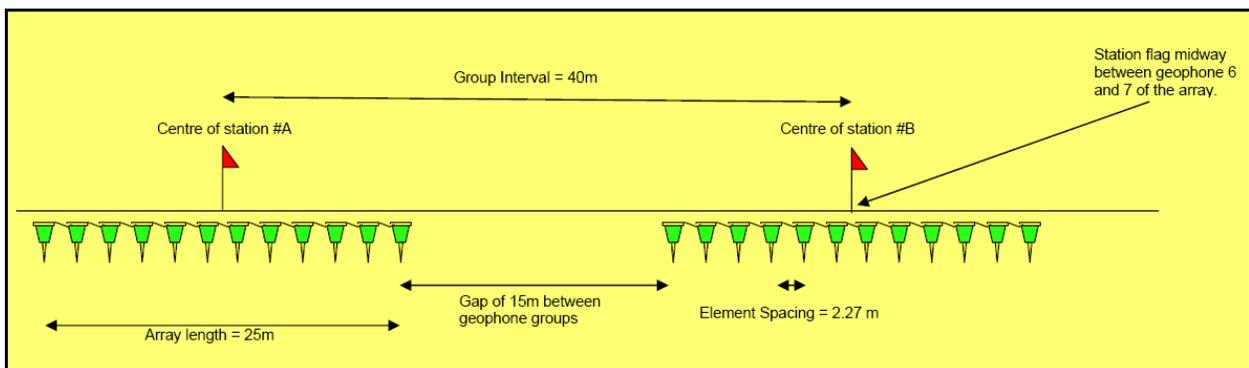


Figure 6. Spinel 3D geophone array

Figure 7 shows the nominal offset distribution and Figure 8 the nominal azimuth distribution for the Spinel 3D.

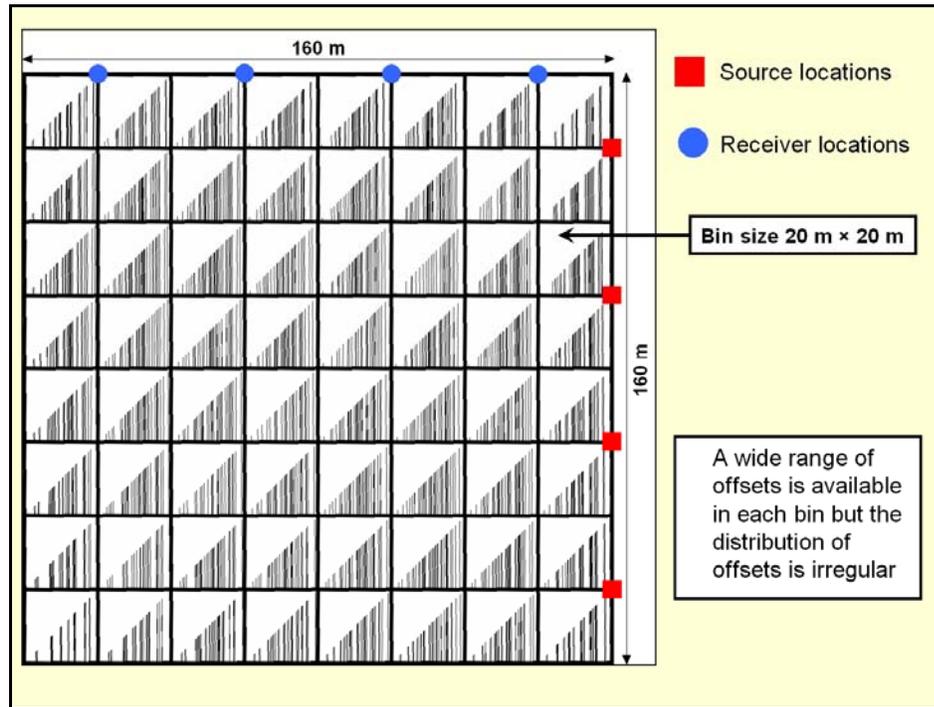


Figure 7. Spinel 3D offset distribution diagram

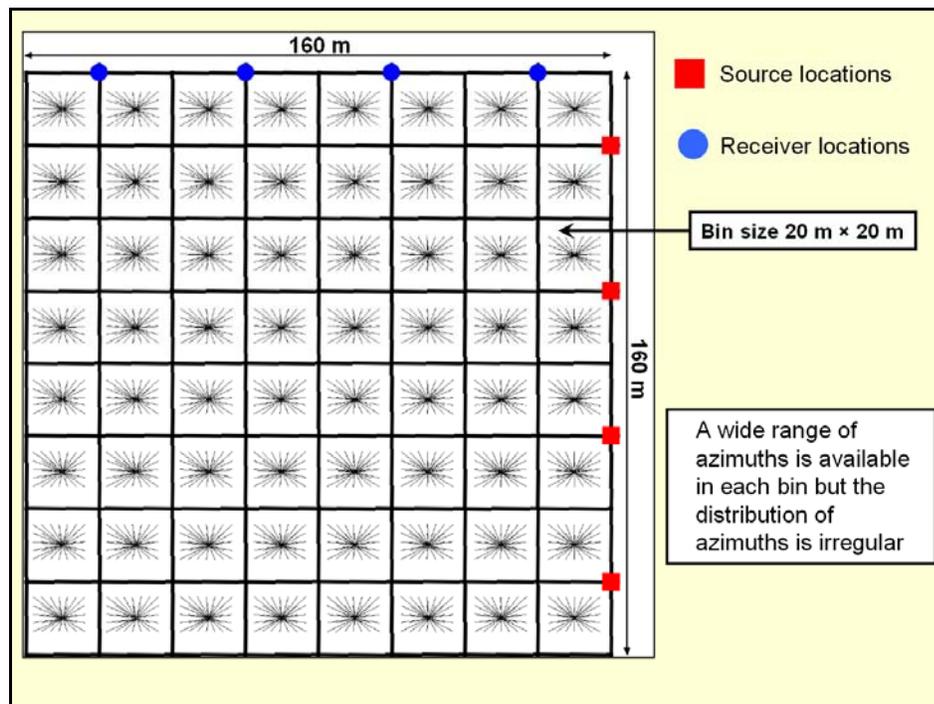


Figure 8. Spinel 3D azimuth distribution diagram

Summary listings of the source and receiver lines are presented below.

Spinel 3D Source Lines Summary (Station interval 40 m)

| Line Number | First Stn | Last Stn | km |
|-------------|-----------|----------|--------|
| GAS07-4988 | 2021.00 | 2172.00 | 6.040 |
| GAS07-4996 | 2021.00 | 2172.00 | 6.040 |
| GAS07-5004 | 2021.00 | 2172.00 | 6.040 |
| GAS07-5012 | 2021.00 | 2172.00 | 6.040 |
| GAS07-5020 | 2021.00 | 2172.00 | 6.040 |
| GAS07-5028 | 2021.00 | 2172.00 | 6.040 |
| GAS07-5036 | 2021.00 | 2172.00 | 6.040 |
| GAS07-5044 | 2021.00 | 2172.00 | 6.040 |
| GAS07-5052 | 2021.00 | 2172.00 | 6.040 |
| GAS07-5060 | 2021.00 | 2172.00 | 6.040 |
| GAS07-5068 | 2021.00 | 2172.00 | 6.040 |
| GAS07-5076 | 2021.00 | 2172.00 | 6.040 |
| GAS07-5084 | 1805.00 | 2172.00 | 14.680 |
| GAS07-5092 | 1805.00 | 2892.00 | 43.480 |
| GAS07-5100 | 1805.00 | 2892.00 | 43.480 |
| GAS07-5108 | 1805.00 | 2892.00 | 43.480 |
| GAS07-5116 | 1805.00 | 2892.00 | 43.480 |
| GAS07-5124 | 1805.00 | 2892.00 | 43.480 |
| GAS07-5132 | 1805.00 | 2892.00 | 43.480 |
| GAS07-5140 | 1805.00 | 2892.00 | 43.480 |
| GAS07-5148 | 1805.00 | 2892.00 | 43.480 |
| GAS07-5156 | 1805.00 | 2892.00 | 43.480 |
| GAS07-5164 | 1805.00 | 2892.00 | 43.480 |
| GAS07-5172 | 1805.00 | 2892.00 | 43.480 |
| GAS07-5180 | 1876.00 | 2892.00 | 40.640 |
| GAS07-5188 | 1884.00 | 2892.00 | 40.320 |
| GAS07-5196 | 1891.00 | 2892.00 | 40.040 |
| GAS07-5204 | 1899.00 | 2892.00 | 39.720 |
| GAS07-5212 | 1906.00 | 2892.00 | 39.440 |
| GAS07-5220 | 1914.00 | 2892.00 | 39.120 |
| GAS07-5228 | 1921.00 | 2892.00 | 38.840 |
| GAS07-5236 | 1929.00 | 2892.00 | 38.520 |
| GAS07-5244 | 1936.00 | 2892.00 | 38.240 |
| GAS07-5252 | 1941.00 | 2892.00 | 38.040 |
| GAS07-5260 | 1941.00 | 2892.00 | 38.040 |
| GAS07-5268 | 1941.00 | 2892.00 | 38.040 |
| GAS07-5276 | 1941.00 | 2892.00 | 38.040 |
| GAS07-5284 | 1941.00 | 2892.00 | 38.040 |
| GAS07-5292 | 1941.00 | 2892.00 | 38.040 |
| GAS07-5300 | 1941.00 | 2892.00 | 38.040 |
| GAS07-5308 | 1941.00 | 2660.00 | 28.760 |
| GAS07-5316 | 1949.00 | 2660.00 | 28.440 |

| | | | |
|------------|---------|---------|--------|
| GAS07-5324 | 1950.00 | 2660.00 | 28.400 |
| GAS07-5332 | 1957.00 | 2660.00 | 28.120 |
| GAS07-5340 | 1965.00 | 2660.00 | 27.800 |
| GAS07-5348 | 1973.00 | 2660.00 | 27.480 |
| GAS07-5356 | 1981.00 | 2660.00 | 27.160 |
| GAS07-5364 | 1989.00 | 2523.00 | |
| | 2535.00 | 2660.00 | 26.360 |
| GAS07-5372 | 1997.00 | 2498.00 | |
| | 2540.00 | 2660.00 | 24.840 |
| GAS07-5380 | 2229.00 | 2472.00 | |
| | 2543.00 | 2660.00 | 14.400 |
| GAS07-5388 | 2229.00 | 2447.00 | |
| | 2547.00 | 2660.00 | 13.240 |
| GAS07-5396 | 2229.00 | 2422.00 | |
| | 2551.00 | 2660.00 | 12.080 |
| GAS07-5404 | 2229.00 | 2397.00 | |
| | 2555.00 | 2660.00 | 10.920 |
| GAS07-5412 | 2229.00 | 2371.00 | |
| | 2559.00 | 2660.00 | 9.720 |
| GAS07-5420 | 2229.00 | 2346.00 | |
| | 2563.00 | 2660.00 | 8.560 |
| GAS07-5428 | 2229.00 | 2326.00 | |
| | 2567.00 | 2660.00 | 7.600 |
| GAS07-5436 | 2229.00 | 2329.00 | |
| | 2571.00 | 2660.00 | 7.560 |
| GAS07-5444 | 2229.00 | 2333.00 | |
| | 2575.00 | 2660.00 | 7.560 |
| GAS07-5452 | 2229.00 | 2337.00 | |
| | 2579.00 | 2660.00 | 7.560 |
| GAS07-5460 | 2229.00 | 2341.00 | |
| | 2583.00 | 2660.00 | 7.560 |
| GAS07-5468 | 2229.00 | 2345.00 | |
| | 2586.00 | 2660.00 | 7.600 |
| GAS07-5476 | 2229.00 | 2348.00 | |
| | 2589.00 | 2660.00 | 7.600 |

Total Distance = 1555.920 km

Spinel 3D Receiver Lines Summary (Station interval 40 m)

| Line Number | First Stn | Last Stn | km |
|-------------|-----------|----------|-------|
| GAS07-1804 | 5085.00 | 5172.00 | 3.480 |
| GAS07-1812 | 5085.00 | 5172.00 | 3.480 |
| GAS07-1820 | 5085.00 | 5172.00 | 3.480 |
| GAS07-1828 | 5085.00 | 5172.00 | 3.480 |
| GAS07-1836 | 5085.00 | 5172.00 | 3.480 |
| GAS07-1844 | 5085.00 | 5172.00 | 3.480 |

| | | | |
|------------|---------|---------|--------|
| GAS07-1852 | 5085.00 | 5172.00 | 3.480 |
| GAS07-1860 | 5085.00 | 5172.00 | 3.480 |
| GAS07-1868 | 5085.00 | 5172.00 | 3.480 |
| GAS07-1876 | 5085.00 | 5181.00 | 3.840 |
| GAS07-1884 | 5085.00 | 5189.00 | 4.160 |
| GAS07-1892 | 5085.00 | 5198.00 | 4.520 |
| GAS07-1900 | 5085.00 | 5206.00 | 4.840 |
| GAS07-1908 | 5085.00 | 5215.00 | 5.200 |
| GAS07-1916 | 5085.00 | 5223.00 | 5.520 |
| GAS07-1924 | 5085.00 | 5232.00 | 5.880 |
| GAS07-1932 | 5085.00 | 5240.00 | 6.200 |
| GAS07-1940 | 5085.00 | 5308.00 | 8.920 |
| GAS07-1948 | 5085.00 | 5324.00 | 9.560 |
| GAS07-1956 | 5085.00 | 5332.00 | 9.880 |
| GAS07-1964 | 5085.00 | 5340.00 | 10.200 |
| GAS07-1972 | 5085.00 | 5348.00 | 10.520 |
| GAS07-1980 | 5085.00 | 5356.00 | 10.840 |
| GAS07-1988 | 5085.00 | 5364.00 | 11.160 |
| GAS07-1996 | 5085.00 | 5372.00 | 11.480 |
| GAS07-2004 | 5085.00 | 5372.00 | 11.480 |
| GAS07-2012 | 5085.00 | 5372.00 | 11.480 |
| GAS07-2020 | 4989.00 | 5372.00 | 15.320 |
| GAS07-2028 | 4989.00 | 5372.00 | 15.320 |
| GAS07-2036 | 4989.00 | 5372.00 | 15.320 |
| GAS07-2044 | 4989.00 | 5372.00 | 15.320 |
| GAS07-2052 | 4989.00 | 5372.00 | 15.320 |
| GAS07-2060 | 4989.00 | 5372.00 | 15.320 |
| GAS07-2068 | 4989.00 | 5372.00 | 15.320 |
| GAS07-2076 | 4989.00 | 5372.00 | 15.320 |
| GAS07-2084 | 4989.00 | 5372.00 | 15.320 |
| GAS07-2092 | 4989.00 | 5372.00 | 15.320 |
| GAS07-2100 | 4989.00 | 5372.00 | 15.320 |
| GAS07-2108 | 4989.00 | 5372.00 | 15.320 |
| GAS07-2116 | 4989.00 | 5372.00 | 15.320 |
| GAS07-2124 | 4989.00 | 5372.00 | 15.320 |
| GAS07-2132 | 4989.00 | 5372.00 | 15.320 |
| GAS07-2140 | 4989.00 | 5372.00 | 15.320 |
| GAS07-2148 | 4989.00 | 5372.00 | 15.320 |
| GAS07-2156 | 4989.00 | 5372.00 | 15.320 |
| GAS07-2164 | 4989.00 | 5372.00 | 15.320 |
| GAS07-2172 | 4989.00 | 5372.00 | 15.320 |
| GAS07-2180 | 5093.00 | 5372.00 | 11.160 |
| GAS07-2188 | 5093.00 | 5372.00 | 11.160 |
| GAS07-2196 | 5093.00 | 5372.00 | 11.160 |
| GAS07-2204 | 5093.00 | 5372.00 | 11.160 |
| GAS07-2212 | 5093.00 | 5372.00 | 11.160 |
| GAS07-2220 | 5093.00 | 5372.00 | 11.160 |

| | | | |
|------------|---------|---------|--------|
| GAS07-2228 | 5093.00 | 5476.00 | 15.320 |
| GAS07-2236 | 5093.00 | 5476.00 | 15.320 |
| GAS07-2244 | 5093.00 | 5476.00 | 15.320 |
| GAS07-2252 | 5093.00 | 5476.00 | 15.320 |
| GAS07-2260 | 5093.00 | 5476.00 | 15.320 |
| GAS07-2268 | 5093.00 | 5476.00 | 15.320 |
| GAS07-2276 | 5093.00 | 5476.00 | 15.320 |
| GAS07-2284 | 5093.00 | 5476.00 | 15.320 |
| GAS07-2292 | 5093.00 | 5476.00 | 15.320 |
| GAS07-2300 | 5093.00 | 5476.00 | 15.320 |
| GAS07-2308 | 5093.00 | 5476.00 | 15.320 |
| GAS07-2316 | 5093.00 | 5476.00 | 15.320 |
| GAS07-2324 | 5093.00 | 5476.00 | 15.320 |
| GAS07-2332 | 5093.00 | 5476.00 | 15.320 |
| GAS07-2340 | 5093.00 | 5476.00 | 15.320 |
| GAS07-2348 | 5093.00 | 5476.00 | 15.320 |
| GAS07-2356 | 5093.00 | 5434.00 | 13.640 |
| GAS07-2364 | 5093.00 | 5431.00 | 13.520 |
| GAS07-2372 | 5093.00 | 5429.00 | 13.440 |
| GAS07-2380 | 5093.00 | 5426.00 | 13.320 |
| GAS07-2388 | 5093.00 | 5424.00 | 13.240 |
| GAS07-2396 | 5093.00 | 5421.00 | 13.120 |
| GAS07-2404 | 5093.00 | 5419.00 | 13.040 |
| GAS07-2412 | 5093.00 | 5417.00 | 12.960 |
| GAS07-2420 | 5093.00 | 5414.00 | 12.840 |
| GAS07-2428 | 5093.00 | 5412.00 | 12.760 |
| GAS07-2436 | 5093.00 | 5409.00 | 12.640 |
| GAS07-2444 | 5093.00 | 5407.00 | 12.560 |
| GAS07-2452 | 5093.00 | 5404.00 | 12.440 |
| GAS07-2460 | 5093.00 | 5402.00 | 12.360 |
| GAS07-2468 | 5093.00 | 5400.00 | 12.280 |
| GAS07-2476 | 5093.00 | 5397.00 | 12.160 |
| GAS07-2484 | 5093.00 | 5395.00 | 12.080 |
| GAS07-2492 | 5093.00 | 5392.00 | 11.960 |
| GAS07-2500 | 5093.00 | 5390.00 | 11.880 |
| GAS07-2508 | 5093.00 | 5387.00 | 11.760 |
| GAS07-2516 | 5093.00 | 5385.00 | 11.680 |
| GAS07-2524 | 5093.00 | 5383.00 | 11.600 |
| GAS07-2532 | 5093.00 | 5380.00 | 11.480 |
| GAS07-2540 | 5093.00 | 5396.00 | 12.120 |
| GAS07-2548 | 5093.00 | 5412.00 | 12.760 |
| GAS07-2556 | 5093.00 | 5428.00 | 13.400 |
| GAS07-2564 | 5093.00 | 5444.00 | 14.040 |
| GAS07-2572 | 5093.00 | 5460.00 | 14.680 |
| GAS07-2580 | 5093.00 | 5476.00 | 15.320 |
| GAS07-2588 | 5093.00 | 5476.00 | 15.320 |
| GAS07-2596 | 5093.00 | 5476.00 | 15.320 |

| | | | |
|------------|---------|---------|--------|
| GAS07-2604 | 5093.00 | 5476.00 | 15.320 |
| GAS07-2612 | 5093.00 | 5476.00 | 15.320 |
| GAS07-2620 | 5093.00 | 5476.00 | 15.320 |
| GAS07-2628 | 5093.00 | 5476.00 | 15.320 |
| GAS07-2636 | 5093.00 | 5476.00 | 15.320 |
| GAS07-2644 | 5093.00 | 5476.00 | 15.320 |
| GAS07-2652 | 5093.00 | 5476.00 | 15.320 |
| GAS07-2660 | 5093.00 | 5476.00 | 15.320 |
| GAS07-2668 | 5093.00 | 5300.00 | 8.280 |
| GAS07-2676 | 5093.00 | 5300.00 | 8.280 |
| GAS07-2684 | 5093.00 | 5300.00 | 8.280 |
| GAS07-2692 | 5093.00 | 5300.00 | 8.280 |
| GAS07-2700 | 5093.00 | 5300.00 | 8.280 |
| GAS07-2708 | 5093.00 | 5300.00 | 8.280 |
| GAS07-2716 | 5093.00 | 5300.00 | 8.280 |
| GAS07-2724 | 5093.00 | 5300.00 | 8.280 |
| GAS07-2732 | 5093.00 | 5300.00 | 8.280 |
| GAS07-2740 | 5093.00 | 5300.00 | 8.280 |
| GAS07-2748 | 5093.00 | 5300.00 | 8.280 |
| GAS07-2756 | 5093.00 | 5300.00 | 8.280 |
| GAS07-2764 | 5093.00 | 5300.00 | 8.280 |
| GAS07-2772 | 5093.00 | 5300.00 | 8.280 |
| GAS07-2780 | 5093.00 | 5300.00 | 8.280 |
| GAS07-2788 | 5093.00 | 5300.00 | 8.280 |
| GAS07-2796 | 5093.00 | 5300.00 | 8.280 |
| GAS07-2804 | 5093.00 | 5300.00 | 8.280 |
| GAS07-2812 | 5093.00 | 5300.00 | 8.280 |
| GAS07-2820 | 5093.00 | 5300.00 | 8.280 |
| GAS07-2828 | 5093.00 | 5300.00 | 8.280 |
| GAS07-2836 | 5093.00 | 5300.00 | 8.280 |
| GAS07-2844 | 5093.00 | 5300.00 | 8.280 |
| GAS07-2852 | 5093.00 | 5300.00 | 8.280 |
| GAS07-2860 | 5093.00 | 5300.00 | 8.280 |
| GAS07-2868 | 5093.00 | 5300.00 | 8.280 |
| GAS07-2876 | 5093.00 | 5300.00 | 8.280 |
| GAS07-2884 | 5093.00 | 5300.00 | 8.280 |
| GAS07-2892 | 5093.00 | 5300.00 | 8.280 |

Total Distance = 1559.880 km

Accommodation

The accommodation facilities were in the form of mobile vans that were provided by Terrex Seismic and were capable of sleeping up to 56 people.

Weather

During the acquisition program the weather varied somewhat from fine hot days to days of general rain. There were over 50 hours of standby time incurred due to the wet weather, the majority of this occurring prior to actual recording of the program.

Access

Access to all lines was via the main existing roads and seismic lines on the prospect.

Recording panels

The survey was recorded over four panels, as set out below in chronological order (Figure 9).

Panel 4 (recoded south to north): production commenced on 29th January on swath 6, source 5732, receiver 2189 and was completed on 7th February on swath 59, source 5324, receiver 2629, with a total of 3467 VPs and 44.1114 km² recorded.

Panel 3 (recorded north to south): production commenced on 8th February on swath 60, source 5300, receiver 2700 and was completed on 6th March on swath 118, source 5244, receiver 1940, with a total of 12661 VPs and 161.0885 km² recorded.

Panel 1 (recorded north to south): production commenced on 7th March on swath 119, source 5092, receiver 2212 and was completed on 11th March on swath 139, source 5140, receiver 2052, with a total of 1960 VPs and 24.9376 km² recorded.

Panel 2 (recorded south to north): production commenced on 11th March on swath 140, source 5092, receiver 2212 and was completed on 15th April on swath 321, source 5300, receiver 2893, with a total of 33937 VPs and 432.04 km² recorded.

In summary, the 2007 Spinel 3D Seismic Survey was completed with no lost time injuries, at an excellent production rate with good data quality. Figure 10 shows the subsurface coverage. A summary of the field tapes recorded during the survey is presented in Table 6.



Figure 9. Spinel 3D recording panels

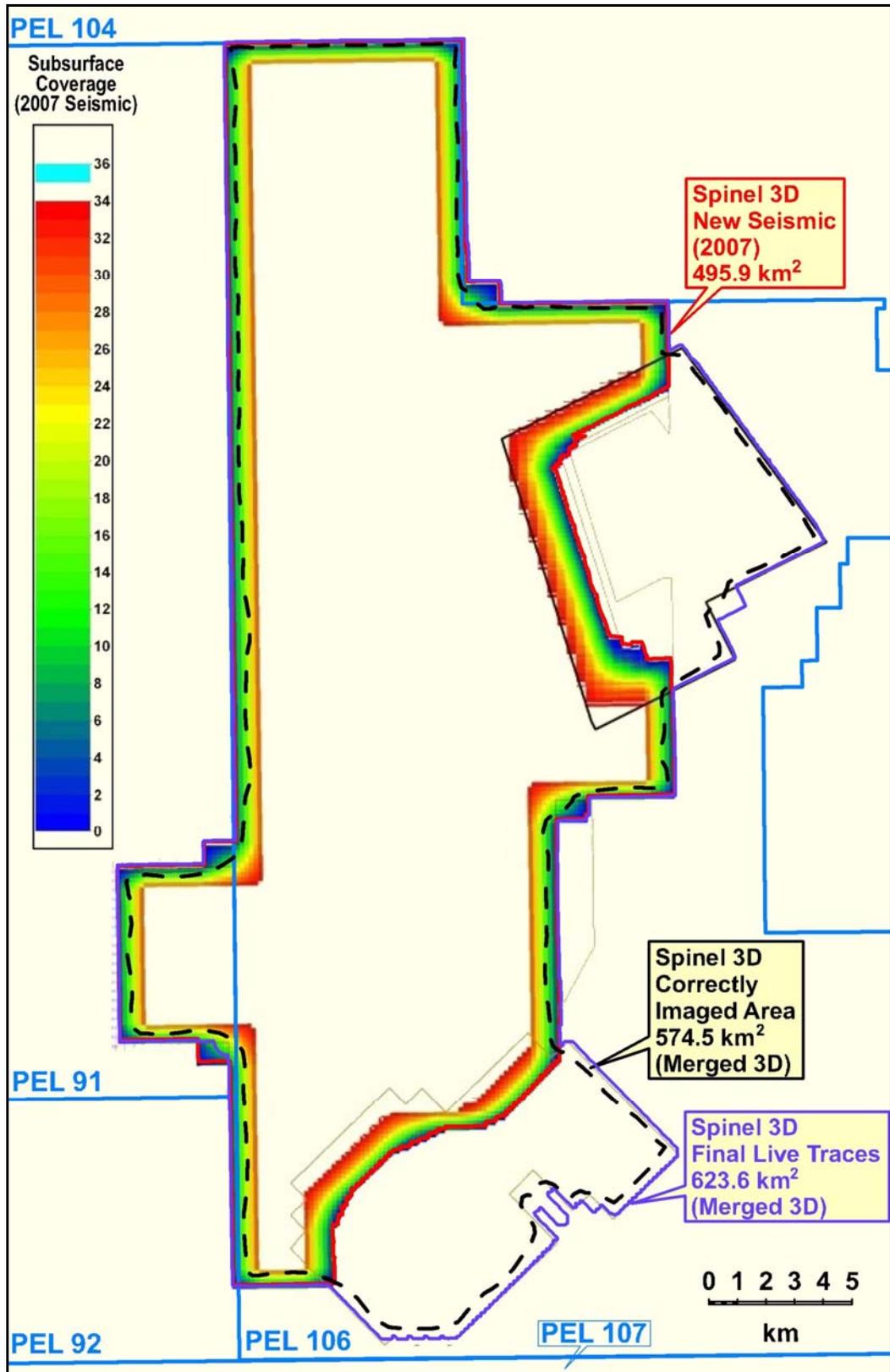


Figure 10. Spinel 3D subsurface coverage map

Table 6. Field Tape Listing

| Tape # | Swath | First FFID | Last FFID | First VP | Last VP | Date Recorded | Comments |
|---------------|--------------|-------------------|------------------|-----------------|----------------|---------------------------------|---|
| 2A | - | 900000 | 900070 | - | - | - | Test Files |
| | 1-59 | 1 | 6415 | 5732/ 2189 | 5324/ 2629 | 29th Jan 07 - 7th Feb 07 | Panel 4 Completed |
| 3A | 60-97 | 6416 | 12358 | 5300/ 2700 | 5300/ 2396 | 8th Feb 07 - 18th Feb 07 | Continue Panel 3 |
| 4A | 97-119 | 12359 | 16451 | 5236/ 2389 | 5244/ 2227 | 19th Feb 07 - 25th Feb 07 | Continue Panel 3 |
| 5A | 119-139 | 16452 | 19298 | 5244/ 2226 | 5276/ 2061 | 26th Feb 07 - 2nd March 07 | Continue Panel 3 |
| 6A | 139-156 | 19299 | 21347 | 5268/ 2601 | 5244/ 1940 | 3rd March 07 - 6th March 07 | Panel 3 Completed. Note: Duplicated File #'s 20410 - 20414 |
| 7A | 157-185 | 21348 | 24982 | 5092/ 2212 | 5140/ 2052 | 7th March 07 - 11th March 07 | Panel 1 Completed |
| 8A | 186-219 | 24983 | 29661 | 5172/ 1828 | 5196/ 2069 | 11th March 2007 - 18th March 07 | Panel 2 |
| 9A | 220-246 | 29662 | 34184 | 5188/ 2069 | 5156/ 2283 | 19th March 07 - 25th March 07 | Continue Panel 2 |
| 10A | 247-263 | 34185 | 36172 | 5156/ 2282 | 5124/ 2391 | 26th March 07 - 30th March 07 | Continue Panel 2 |
| 11A | 264-304 | 36173 | 42980 | 5124/ 2392 | 5212/ 2741 | 30th March 07 - 9th April 07 | Continue Panel 2 |
| 12A | 305-321 | 42981 | 46836 | 5220/ 2741 | 5300/ 2892 | 10th April 07 - 15th April 07 | Panel 2 Completed |
| | | | | | | | Spinel 3D Completed |

2.8. Uphole Program

In conjunction with the Spinel seismic survey, an uphole survey was conducted by Velocity Data Pty Ltd. One hundred and three upholes were drilled and logged between the 10th and the 27th of March 2007. The drilling was undertaken by Scanlon Drilling Ltd. The uphole data were recorded with a 120 kg hydraulic weight drop unit mounted on a Toyota Hi-Lux 4WD. The velocity data was recorded with a "Shotput" acquisition recording and processing (SARP) system which is a windows based, multi-channel program utilizing a 24-bit analog to digital converter. Hole locations were checked using a hand-held Garmin GPS receiver. Any offsets from the programmed uphole locations were noted on the observer's logs.

The sub-weathering velocities were in the range of 1750 to 2891 m/sec. Depths of weathering were in the range of 0 to 26m. The low weathering depths were due to upholes being located next to salt pans and low lying clay pans. Hole depths were in the range of 30 to 54 m, the variation being due to the undulation between the sand dunes.

A summary of the uphole data is presented below in Table 7. The elevations provided are relative to MSL. "Lx" is the hole depth, "Wx" is the depth to the base of weathering "Vx" and is the sub-weathering velocity.

Full uphole plots with drilling lithology comments are included in Appendix 6, together with the interpreted velocity layers. The sub-directory "Uphole Data" contains all of the data from the uphole surveys, including SEG-Y files for the shots.

Table 7. Uphole Data Summary

| Hole # | Line | Station | Easting | Northing | Elevation | Lx | Wx | Vx |
|--------|-------|----------|---------|----------|-----------|----|----|------|
| 1 | S5156 | 51561820 | 371763 | 6896342 | 22.68 | 34 | 12 | 1954 |
| 2 | | | 372870 | 6896794 | 38.85 | 46 | 24 | 1761 |
| 3 | S5100 | 51001836 | 369515 | 6896952 | 24.76 | 34 | 10 | 1961 |
| 4 | S5156 | 51561860 | 371753 | 6897955 | 24.66 | 34 | 12 | 1945 |
| 5 | S5116 | 51161868 | 370173 | 6898232 | 23.64 | 28 | 10 | 1973 |
| 6 | S5092 | 50921900 | 369181 | 6899491 | 28.57 | 34 | 14 | 1869 |
| 7 | S5172 | 51721892 | 372355 | 6899217 | 23.64 | 28 | 10 | 1974 |
| 8 | S5124 | 51241900 | 370447 | 6899535 | 24.94 | 34 | 10 | 1954 |
| 9 | S5196 | 51961916 | 373242 | 6900210 | 22.38 | 28 | 6 | 2209 |
| 10 | S5172 | 51721932 | 372346 | 6900827 | 21.53 | 28 | 6 | 1924 |
| 11 | S5132 | 51321940 | 370752 | 6901125 | 23.04 | 28 | 8 | 1875 |
| 12 | S5092 | 50921948 | 369146 | 6901422 | 22.62 | 28 | 8 | 1938 |
| 13 | R1948 | 19485260 | 375871 | 6901514 | 20.54 | 40 | 8 | 1856 |
| 14 | S5204 | 52041956 | 373616 | 6901793 | 21.6 | 28 | 6 | 1943 |
| 15 | S5124 | 51241972 | 370407 | 6902412 | 21.45 | 28 | 6 | 1929 |
| 16 | S5316 | 53161972 | 378092 | 6902506 | 28.36 | 34 | 13 | 1932 |
| 17 | S5180 | 51801980 | 372654 | 6902744 | 30.41 | 34 | 12 | 2058 |
| 18 | S5356 | 53562004 | 379587 | 6903811 | 27.06 | 34 | 12 | 1972 |
| 19 | S5148 | 51482012 | 371373 | 6904015 | 23.48 | 28 | 8 | 1946 |
| 20 | S5204 | 52042012 | 373582 | 6904052 | 30.65 | 34 | 14 | 1893 |
| 21 | S5284 | 52842036 | 376785 | 6905050 | 34.7 | 40 | 19 | 2033 |
| 22 | S5012 | 50122037 | 365902 | 6904921 | 31.21 | 46 | 16 | 1826 |
| 23 | S5004 | 50042148 | 365479 | 6909375 | 21.03 | 28 | 6 | 1834 |
| 24 | S5076 | 50762052 | 368436 | 6905570 | 25.59 | 34 | 12 | 1794 |
| 25 | S5220 | 52202076 | 374033 | 6906612 | 26.06 | 34 | 10 | 1974 |
| 26 | S5012 | 50122092 | 365902 | 6907130 | 21.47 | 28 | 6 | 1853 |
| 27 | S5092 | 50922092 | 369033 | 6907170 | 20.45 | 28 | 6 | 1930 |
| 28 | S5332 | 53322092 | 378637 | 6907323 | 36.38 | 46 | 20 | 1947 |
| 29 | S5156 | 51562084 | 371643 | 6906901 | 44.87 | 52 | 26 | 2012 |
| 30 | S5268 | 52682124 | 376076 | 6908542 | 23.38 | 34 | 8 | 1924 |
| 31 | S5124 | 51242140 | 370317 | 6909115 | 28.4 | 34 | 14 | 1960 |
| 32 | S5156 | 51562148 | 371582 | 6909453 | 27.05 | 34 | 10 | 1966 |
| 33 | S5052 | 50522156 | 367516 | 6909718 | 28.35 | 34 | 10 | 2153 |
| 34 | S5204 | 52042156 | 373501 | 6909789 | 26.95 | 34 | 12 | 1942 |
| 35 | S5324 | 53242156 | 378316 | 6909876 | 28.51 | 34 | 10 | 1971 |
| 36 | S5100 | 51002180 | 369411 | 6910712 | 21 | 28 | 6 | 1955 |
| 37 | S5148 | 51482180 | 371260 | 6910732 | 28.85 | 34 | 14 | 1984 |
| 38 | S5268 | 52682196 | 376059 | 6911452 | 21.21 | 28 | 6 | 1948 |
| 39 | S5124 | 51242204 | 370452 | 6911674 | 23.38 | 28 | 8 | 1996 |
| 40 | S5164 | 51642220 | 371862 | 6912341 | 20.07 | 26 | 4 | 1927 |
| 41 | S5100 | 51002228 | 369288 | 6912622 | 21.43 | 28 | 6 | 1972 |
| 42 | S5212 | 52122236 | 373748 | 6913014 | 25.65 | 40 | 12 | 1753 |
| 43 | R2244 | 22445326 | 378347 | 6913390 | 21.99 | 28 | 4 | 2891 |
| 44 | R2252 | 22525164 | 371855 | 6913620 | 21.28 | 28 | 4 | 1896 |
| 45 | S5132 | 51322260 | 370477 | 6913930 | 20.52 | 28 | 12 | 1986 |
| 46 | R2260 | 22605443 | 383003 | 6914112 | 27.58 | 34 | 10 | 1985 |
| 47 | R2268 | 22685101 | 369309 | 6914212 | 17.26 | 28 | 2 | 2103 |
| 48 | S5220 | 52202276 | 374083 | 6914605 | 26.86 | 34 | 10 | 1956 |

Table 7. Uphole Data Summary (continued)

| Hole # | Line | Station | Easting | Northing | Elevation | Lx | Wx | Vx |
|--------|-------|----------|---------|----------|-----------|----|-----|------|
| 49 | S5252 | 52522276 | 375373 | 6914640 | 23.45 | 28 | 8 | 1773 |
| 50 | R2292 | 22925364 | 379829 | 6915330 | 33.5 | 40 | 16 | 1785 |
| 51 | S5140 | 51402292 | 370868 | 6915206 | 22.83 | 28 | 6 | 1915 |
| 52 | R2300 | 23005171 | 372117 | 6915881 | 29.68 | 34 | 14 | 1966 |
| 53 | R2308 | 23085108 | 369581 | 6915838 | 20.49 | 28 | 6 | 2239 |
| 54 | S5220 | 52202308 | 374142 | 6915892 | 23.89 | 40 | 8 | 1966 |
| 55 | S5268 | 52682324 | 375988 | 6916561 | 25.35 | 34 | 12 | 1951 |
| 56 | S5124 | 51242347 | 372036 | 6917442 | 33.92 | 40 | 18 | 1956 |
| 57 | R2348 | 23485380 | 380441 | 6917567 | 33.06 | 34 | 16 | 1940 |
| 58 | R2364 | 23645100 | 369225 | 6918057 | 17.76 | 28 | 2 | 1865 |
| 59 | R2364 | 23645141 | 370858 | 6918079 | 24.1 | 28 | 8 | 1948 |
| 60 | S5252 | 52522388 | 375311 | 6919110 | 29.43 | 40 | 12 | 1965 |
| 61 | R2404 | 24045332 | 378498 | 6919809 | 22.49 | 26 | 4 | 1750 |
| 62 | S5180 | 51802396 | 372376 | 6919381 | 17.02 | 28 | 0-2 | 1999 |
| 63 | S5148 | 51482404 | 371054 | 6919704 | 34.31 | 40 | 18 | 2004 |
| 64 | S5108 | 51082420 | 369521 | 6920324 | 21.18 | 26 | 4 | 1941 |
| 65 | S5180 | 51802428 | 372396 | 6920677 | 18.19 | 28 | 0-2 | 1996 |
| 66 | S5268 | 52682452 | 375902 | 6921690 | 37.15 | 40 | 20 | 2042 |
| 67 | S5100 | 51002468 | 369185 | 6922227 | 21.08 | 28 | 4 | 1896 |
| 68 | S5204 | 52042500 | 373325 | 6923566 | 22.97 | 28 | 8 | 1950 |
| 69 | S5108 | 51082516 | 369603 | 6924167 | 23.49 | 28 | 10 | 2002 |
| 70 | R2532 | 25325141 | 370772 | 6924830 | 41.8 | 46 | 26 | 1853 |
| 71 | S5324 | 53242532 | 378235 | 6924925 | 22.94 | 28 | 6 | 1771 |
| 72 | S5100 | 51002548 | 369127 | 6925436 | 25.63 | 32 | 8 | 1937 |
| 73 | S5220 | 52202572 | 373922 | 6926441 | 22.31 | 28 | 4 | 1821 |
| 74 | R2604 | 26045164 | 371641 | 6927688 | 32.12 | 34 | 16 | 2003 |
| 75 | R2588 | 25885292 | 376793 | 6927134 | 22.65 | 28 | 6 | 1755 |
| 76 | R2604 | 26045365 | 379677 | 6927816 | 31.28 | 34 | 18 | 1973 |
| 77 | S5100 | 51002636 | 369077 | 6928953 | 20.71 | 28 | 0-2 | 2181 |
| 78 | S5268 | 52682652 | 375786 | 6929684 | 23.32 | 28 | 6 | 1753 |
| 79 | R2652 | 26525317 | 377731 | 6929708 | 24.48 | 28 | 8 | 1941 |
| 80 | R2652 | 26525404 | 381265 | 6929752 | 25.24 | 32 | 12 | 1801 |
| 81 | R2668 | 26685172 | 371951 | 6930264 | 21.46 | 28 | 4 | 1926 |
| 82 | S5140 | 51402684 | 370649 | 6930897 | 21.53 | 28 | 4 | 1957 |
| 83 | S5212 | 52122684 | 373525 | 6930920 | 21.75 | 28 | 4 | 1936 |
| 84 | R2692 | 26925100 | 369061 | 693178 | 20.61 | 28 | 0-2 | 1996 |
| 85 | R2700 | 27005180 | 372243 | 6931562 | 33.16 | 34 | 12 | 1773 |
| 86 | S5284 | 52842700 | 376400 | 6931622 | 27.84 | 34 | 10 | 1958 |
| 87 | S5148 | 51482716 | 370961 | 6932165 | 26.96 | 28 | 10 | 1964 |
| 88 | S5252 | 52522716 | 375099 | 6932238 | 24.59 | 34 | 8 | 1969 |
| 89 | S5100 | 51002732 | 369023 | 6932783 | 21.49 | 28 | 4 | 1966 |
| 90 | S5204 | 52042740 | 373174 | 6933168 | 22.07 | 26 | 4 | 1915 |
| 91 | S5180 | 51802756 | 372269 | 6933808 | 23.52 | 28 | 8 | 2057 |
| 92 | S5236 | 52362756 | 374457 | 6933816 | 29.03 | 34 | 14 | 2275 |
| 93 | S5292 | 52922780 | 376690 | 6934815 | 23.18 | 28 | 6 | 1924 |
| 94 | S5204 | 52042788 | 373146 | 6935070 | 22.76 | 26 | 6 | 1915 |
| 95 | S5260 | 52602796 | 375388 | 6935422 | 24.67 | 28 | 8 | 1962 |
| 96 | S5284 | 52842820 | 376356 | 6936406 | 35.25 | 40 | 14 | 1968 |
| 97 | S5108 | 51082828 | 369296 | 6936626 | 21.64 | 28 | 4 | 1795 |
| 98 | S5244 | 52442836 | 374724 | 6937040 | 24.04 | 28 | 6 | 1942 |
| 99 | S5148 | 51482804 | 370799 | 6935691 | 23.05 | 28 | 2 | 1894 |

Table 7. Uphole Data Summary (continued)

| Hole # | Line | Station | Easting | Northing | Elevation | Lx | Wx | Vx |
|--------|-------|----------|---------|----------|-----------|----|----|------|
| 100 | S5156 | 51562852 | 371283 | 6937617 | 28.88 | 28 | 10 | 1760 |
| 101 | S5100 | 51002884 | 368960 | 6938870 | 22.78 | 28 | 6 | 2141 |
| 102 | R2884 | 28845204 | 373097 | 6938944 | 19.93 | 28 | 4 | 1919 |
| 103 | S5292 | 52922876 | 376634 | 6938642 | 25.38 | 28 | 8 | 2659 |

| | | | | |
|----------------|--|-------|------|---------|
| Minimum | | 26 | 0-2 | 1750 |
| Maximum | | 54 | 26 | 2891 |
| Average | | 31.77 | 9.62 | 1956.76 |

2.9. Rehabilitation and de-permitting

At the end of field acquisition activities the lines were checked for any rubbish and pegs left behind. Although actual recording of the Spinel survey was completed on 15th April 2007, it took several days to pick up the spread and several more weeks to complete de-pegging.

To assess the environmental impact of the Spinel survey and to allow systematic monitoring of the natural restoration and re-vegetation rates, ten environmental monitoring points (EMPs) were established. Photographs were taken at the EMP locations in the directions of the lines following completion of recording operations (Appendix 5). It is intended that these photographs will form the base line for ongoing monitoring.

A GAS (Goal Attainment Scaling) audit was conducted by Bruce Beer at the conclusion of recording operations. Some 90 points were considered in this audit apart from the EMPs. The GAS auditing showed that line preparation was carried out according to the best practice techniques of minimal blading and clearing of vegetation. As a result, the combination of wind action and occasional rainfall is expected to re-vegetate the lines to the point that they will be indiscernible within a few years. There was no indication of any likely long-term adverse impacts.

In May 2007 an aerial inspection was conducted by PIRSA to review the condition and assess the level of rehabilitation of seismic lines in the Cooper Basin (Appendix 7). As part of this program, many sites of the Spinel 3D Seismic Survey have been audited and evaluated using the established GAS system. Histograms were used to provide a graphical example of the distribution of scores between the desirable range ('0', '+1' or '+2') and undesirable range ('-1' or '-2').

The results of the GAS auditing show almost 93% of the records for the Spinel 3D survey were of an acceptable or preferred standard ('0', '+1', '+2').

The PIRSA field officers recorded a total of eighteen minus one (-1) scores. Of these, twelve related to impacts to dune surface while four were attributed to floodplain surface impacts. However, it was acknowledged that the Spinel survey was only recently completed and is largely likely to recover to more acceptable standards.

Only two '-2' scores were registered out of over 1500 scores recorded. These were both attributed to the presence of litter in a new seismic survey. Three camps were used during the Spinel 3D (operated by GAOG), one of which was visited and audited. A range of items was left around the edges of the campsite, and accounts for one of the two '-2' scores. Most of the litter was in the form of survey pegs and pin-flags that were being stored at this location during the de-pegging operation that continued for several more weeks after the PIRSA visit. The site was cleared and all rubbish removed at the completion of the work. The remaining '-2' score was recorded after several grease containers were found on a Spinel seismic line. The seismic contractor was notified of this breach in protocol. In all, slightly over 3% of all results fell in the '-1' or '-2' classifications in each of the observation categories.

3. DATA PROCESSING

The processing contractor for the Spinel 3D was Velseis Processing Pty. Ltd. During processing the 2007 Spinel 3D data (495.9 km²) were merged with the 2005 Paranta 3D (82.5 km²) and 2002 Raven-Moonanga 3D (81.9 km²), to generate one consistent dataset of 623.6 km². The data processing was undertaken with the “Promax” data processing system and included pre-stack time migration. The processing commenced in February 2007 and was completed by December 2007. The full data processing report is included as Appendix 4. The processing sequence is summarised in Table 8.

Table 8. Processing Sequence

| | |
|--|--|
| Reformat | Input reformatted to ProMAX internal data format |
| Assign Geometry | Geometry is assigned for each trace, including source, receiver and CDP locations offsets, elevations, shot depths and CDP fold |
| Trace Edit | Remove bad or noisy traces from shot records interactively |
| Static Computation | Refraction statics were calculated from first breaks, using a datum of 0 m above MSL and a replacement velocity of 1900 m/sec. Statics applied to a floating point datum. Refraction statics tied to uphole statics. |
| Phase Conversion | Conversion from zero phase correlated data supplied on field tapes to minimum phase for input into deconvolution algorithms |
| Gain Recovery | True Amplitude Recovery using a time power constant of 1.5 |
| Amplitude Scaling | Scalars calculated and applied to common shots and receivers to correct for amplitude variations |
| Deconvolution | Surface consistent spiking deconvolution with a 120 ms operator. Design window: near trace 340 to 2500 ms, far trace 1400 to 2500 ms |
| Velocity Analysis (1st Pass) | Velocities picked on a 1000 m x 1000 m grid. Each panel consisted of 11 CDPs stacked using 11 velocity functions centred around a regional velocity function. |
| Residual Static Calculation (1st Pass) | Surface consistent residual statics calculated and applied using “Maximum Power Autostatics”. Time shifts picked at maximum of power shift spectra and stored. Pilot stack updated and process repeated for 4 iterations or until the RMS of the change in the computed statics was less than .05 ms, using a maximum shift of +/-20 ms. |
| Velocity Analysis (2nd Pass) | Velocities picked on a 500 m x 500 m grid. Each panel consisted of 9 CDPs stacked using 11 velocity functions centred around a guide function. |

Table 8. Processing sequence (continued)

| | |
|---|---|
| Trim Static Calculation | Pass of CDP consistent residual statics used to optimise stack. Run using an FXY decon-filtered volume as the external pilot. A maximum shift of +/-8 ms was allowed on gates encompassing main events (600-3000 ms). |
| TFD (Time Frequency Domain) Noise Attenuation | Noise attenuated in time -frequency space, by comparing amplitude levels to adjacent traces and reducing high and spurious values. |
| Surface Consistent Amplitude Scaling (2nd iteration) | Scalars calculated and applied to common shots and receivers to correct for amplitude variations |
| Spike and Noise Burst Attenuation | Spikes and noise bursts attenuated prior to PSTM. Spike detection threshold 5 times rms amplitude. Noise burst attenuation window 100 ms. |
| Bandpass Filter | 5-90 Hz bandpass filter applied to remove noise outside the sweep frequency range prior to PSTM. |
| 3D Pre-Stack Time Migration (PSTM) | Kirchhoff 3D pre-stack time migration using 100% of smoothed 2nd pass stacking velocities |
| Shift to Final Datum | Data shifted from floating datum to final datum of 0m ASL |
| Kirchhoff Prestack 3D Migration (PSTM) | Used to move data to their correct subsurface location. Stacking velocities were smoothed for PSTM |
| Velocity Analysis (Final) | Velocities picked on 500 m x 500 m grid using PSTM gathers. |
| Normal Moveout Correction | NMO correction applied to data using PSTM velocities allowing PSTM stack volume to be generated |
| Mute | 30% stretch mute applied to eliminate refractors and stretch caused by normal moveout corrections. |
| Radon Filter | Radon filter applied to suppress multiples and other noise on PSTM gathers. Modelled multiples subtracted from input seismic. |
| Stack | PSTM traces stacked to produce the merged volume for both the Spinel and Raven datasets. Raven volume regridded to the Spinel grid and summed. |
| Spectral Whitening | Migrated volume balanced using zero phase spectral whitening. Sliding 250 ms scalar divided into 2 frequency panels encompassing 3/8-90/100 Hz. |
| Post Stack 3D Common Reflection Stack (CRS) Noise Attenuation | CRS used to attenuate "acquisition footprint" noise, following PSTM. CRS determines local dip and then sums along dip to produce a new value for each trace sample. |
| Frequency Filter | Butterworth Zero phase bandpass filter applied. |
| Fold Compensation | Trace scaling to compensate for variable fold between different surveys and in survey overlap areas. |
| Display | A positive number on tape represents a peak and corresponds to a decrease in acoustic impedance. |

The processing had two key goals:

- Improvements to data quality in the deeper parts of the sections, where multiple reflections sourced from coals in the shallower section interfere with and degrade primary reflections
- The preservation of true seismic amplitudes, so as to facilitate 3D seismic attribute analysis, during the interpretation phase of the project.

It was considered that the PSTM would be effective in achieving these goals.

During processing a significant problem with “acquisition footprint” noise was recognised, following PSTM. This footprint is a consequence of the modern sparse 3D acquisition technique, which provides a wide range of offsets for each bin but with an irregular distribution of offsets (Figure 7). This leads to a concentration of offsets in the mid range, with very few near and far offsets (Figure 11). The irregular bin-to-bin distribution of offsets leads to trace-to-trace amplitude variations which may be sufficiently large (as they were in the case of the Spinel 3D) to generate migration “smiles” (post-migration artefacts), following PSTM (Figure 12).

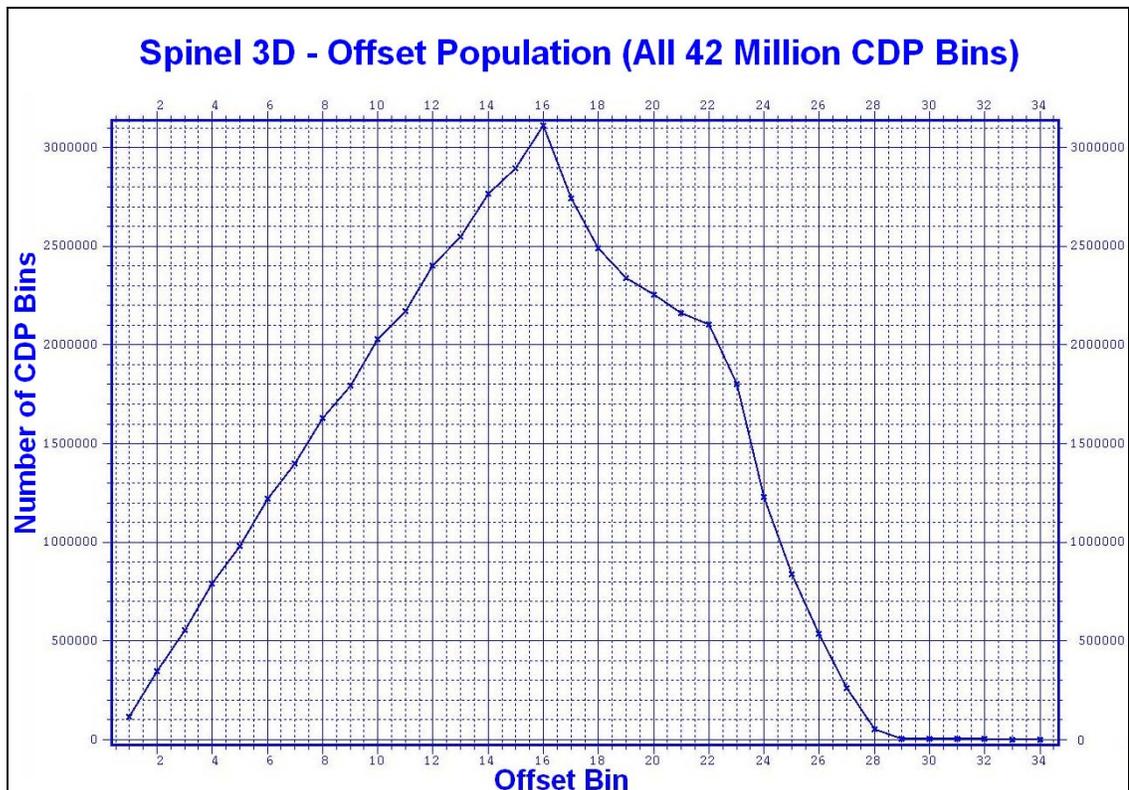


Figure 11. Spinel 3D offset population

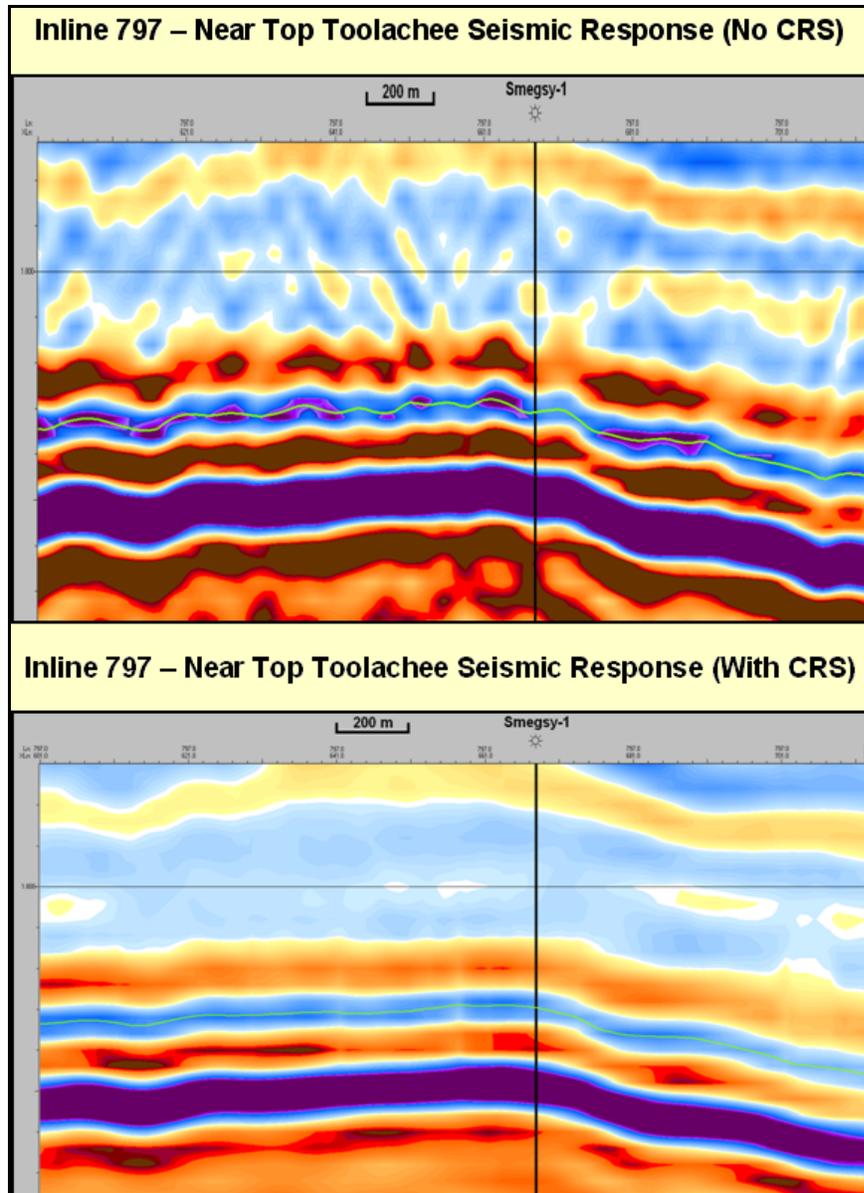


Figure 12. Spinel 3D, inline 797, before and after CRS

The acquisition footprint noise was effectively attenuated with a new processing technique known as Common Reflection Surface (CRS) stack. CRS enables structural information to be used to attenuate noise during processing. Dip is used to intelligently mix data across bins to produce better regularized gathers and improve signal to noise ratio. The CRS processing was very effective in attenuating the acquisition footprint noise, after PSTM (Figure 12).

A PSTM was completed and a 3D volume was delivered to Great Artesian in December 2007. Some time after the delivery of this PSTM volume, Velseis discovered an error in the PSTM flow, where a fractional amount of the final static shift to datum was not applied prior to PSTM. This resulted in each trace being not fully corrected by up to +/-1

ms. The stack after PSTM was slightly degraded by the error but structure was minimally affected because of the zero averaging of the error. The PSTM was subsequently rerun, with the fractional static shifts applied. The final PSTM volume was delivered by Velseis on 7th January 2008 (a delay in delivery of six weeks).

A semblance cube was generated by Geocom Services Australia Pty Ltd in their Perth office and delivered to Great Artesian on 1st February 2008. Geocom used their “Mean CC” utility to determine semblance. Mean CC uses the mean of the cross-correlation of neighbouring traces to measure trace-to-trace similarity.

The Spinel 3D data has provided detailed imaging at key reservoir levels, leading to the identification of new structural and stratigraphic targets. It has enabled the identification and mapping of broad sedimentary packages within the objective Patchawarra section. Although resolution was insufficient to map individual sands, such detail has enabled the mapping of stratigraphic plays that were sometimes recognised but never mappable on 2D data.

The merging of the earlier Paranta and Raven-Moonanga 3D surveys with the new Spinel 3D proved to be difficult but was for the most part successful.

Some of the participants in the Spinel 3D survey were not entitled to the full 3D volume (because of farmin agreement limitations) but all parties were entitled to the Raven-Moonanga 3D (R-M 3D). Five versions of both the final PSTM volume and the semblance volume were generated, to accord with the various farmins (Figure 13):

- Version 1 (Great Artesian): the full cube
- Version 2 (Blue Energy): the Blue Energy Block only (includes the R-M 3D)
- Version 3 (Beach): the Beach Block only (includes R-M 3D)
- Version 4 (Enterprise): Rosasco, Smegsy, Paprika & Udacha Blocks plus R-M 3D
- Version 5 (Rawson and Magellan): the Udacha Block plus the R-M 3D.

The items listed below in Table 9 were archived for the Spinel 3D project. Together with the field tapes, field survey data, observers logs and uphole survey data (which were submitted to PIRSA on 9th January 2008) these data comprise the “Basic Data” for the 2007 Spinel 3D Seismic Survey.

Table 9. Data archived for the Spinel 3D Survey

| | |
|-------------------------|---|
| DVD-452, Volumes 1 to 3 | Final PSTM seismic, in SEG-Y format (3 DVD's) |
| DVD GSA-1801 and 1802 | Final semblance volume, in SEG-Y format (2 DVD's) |
| DVD-460 | Spinel 3D Seismic Processing Report (from Velseis, in PDF format); CGM+ displays, every 200th inline (vertical scale 20 cm/sec, horizontal scale 1:25,000); statics data (separated as source and receiver statics), testing results (as Microsoft PowerPoint files) and final stacking velocities (in column ASCII format) |
| CD GAOG-Spinel3D | Spinel 3D Final Operations Report (PDF format) |

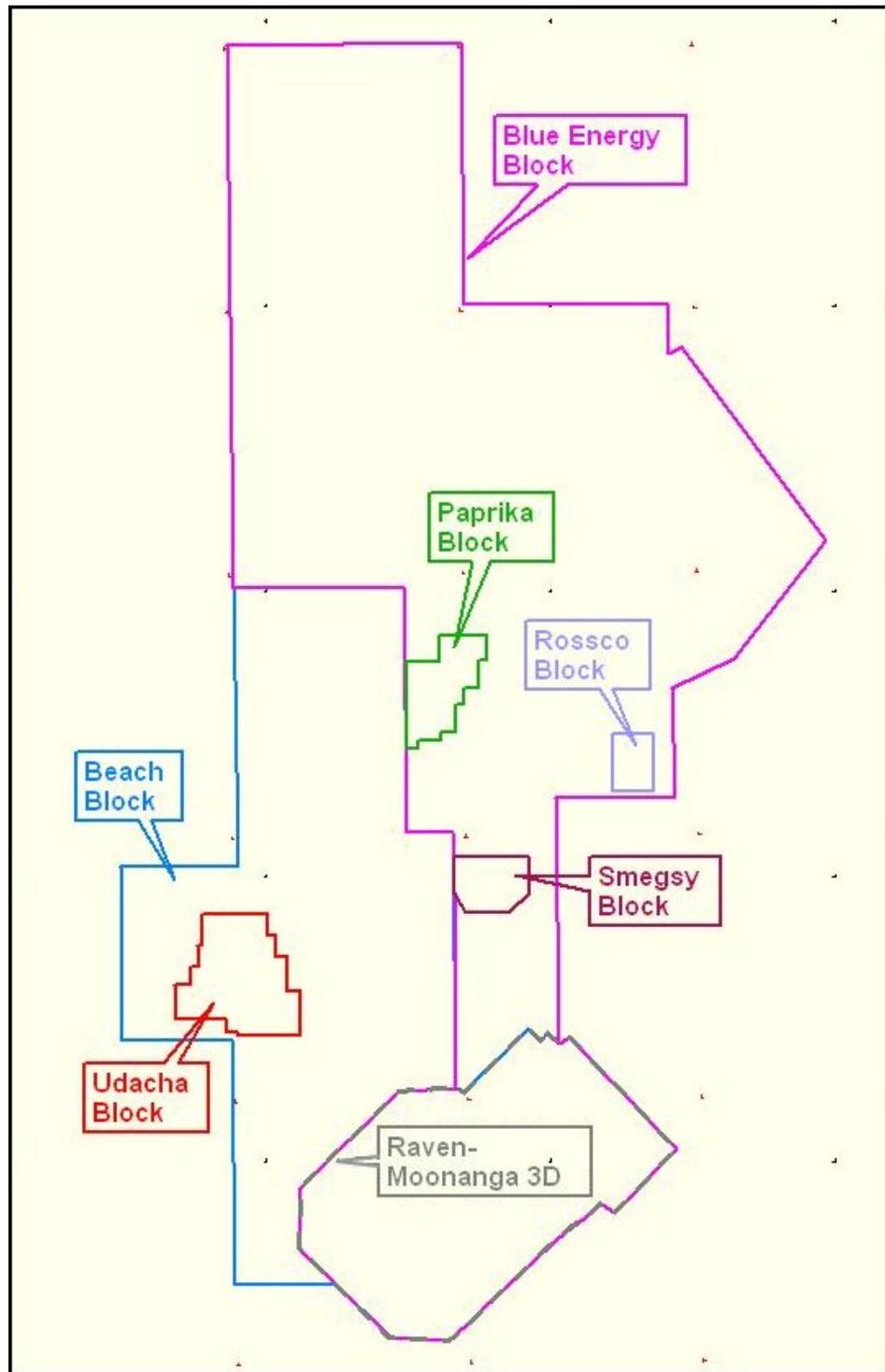


Figure 13. Spinel 3D farmin blocks

4. CONCLUSIONS AND RECOMMENDATIONS

The 2007 Spinel 3D Seismic Survey was a technical and operational success. The data acquired was of a very good quality and the processed data provided detailed imaging at key reservoir levels, leading to the identification of new structural and stratigraphic targets. The merging of the earlier Paranta and Raven-Moonanga 3D surveys with the new Spinel 3D proved to be difficult but was for the most part successful.

The parameters for the Spinel 3D were the most intense for a large survey in the Cooper Basin, to date. The resultant 3D volume, with 20 m x 20 m bins and nominal 35 fold coverage, has enabled the identification and mapping of broad sedimentary packages within the objective Patchawarra section. Although resolution was insufficient to map individual sands, such detail has enabled the mapping of stratigraphic plays that were sometimes recognised but never mappable on the 2D data.

Environmental and cultural heritage considerations taken in the planning and conduct of the survey are expected to result in very low long-term impact on the survey area. Line clearing methods were successful in avoiding significant visual and potential erosion problems and regeneration of the lines over time is expected to remove most evidence of the survey. Despite the delays due to detours, the hourly rate option proved to be cost effective for Great Artesian. There were no lost time injuries during the project.

One factor affecting recording was the crossing of salt lakes. To minimise the likely delays, camp personnel laid geophones ahead of the line crew. Source lines were offset as much as possible, but there were still 88 skips on the job.

Sand dunes also caused problems. This area has some of the largest dunes in the Cooper Basin. Terrex vibrators are not fitted with sand tyres and their mechanics were reluctant to lower the pressure on the heavily lugged tyres for fear of sidewall stakes. As a result there was considerable detour time.

In summary, the 2007 Spinel 3D Seismic Survey was completed with excellent production and good data quality. All contractors are recommended for future work.

GREAT ARTESIAN OIL & GAS LIMITED

Field Operations Report

for the

2007 SPINEL 3D SEISMIC SURVEY, PEL 106 & 91

Cooper/Eromanga Basins, South Australia

Conducted by:

Terrex Seismic Pty Ltd

From

January 29th, 2007 – April 15th, 2007

**Prepared by: Bruce Beer
Consulting Geophysicist
B. C. & M. Beer Pty. Ltd.
ABN 96 007 830 882**

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CONTENTS

Great Artesian Oil & Gas Limited: **2007 Spinel 3D Seismic Survey**

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- 2.0 Logistics
- 3.0 Timetable of Events
- 4.0 Parameters
- 5.0 Recording
- 6.0 Uphole Drilling & LVL
- 7.0 Line Preparation, Survey, Permitting and Environment
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- VIII. Equipment List

1.0 INTRODUCTION

The 2007 Spinel 3D Seismic Survey was operated by Great Artesian Oil & Gas (GAOG) Limited and conducted in PEL 106 and 91 in the Cooper/Eromanga Basin in South Australia by Terrex Seismic. The program was located 60 km northwest of Moomba and covered a number of gas fields. It also made a tie with two earlier 3Ds, the Paranta 3D in the north east and the Raven-Moonanga 3D in the south east.

Terrex Seismic Limited was contracted to collect the seismic data on an hourly rate basis. 495.9 sq km of 3D seismic data was recorded with source and receiver lines 320m apart. 1559.04 linear source line kms were recorded. Recording operations began on January 29th, 2007 and were completed on April 15th, 2007.

GAOG sub-contracted (through Terrex Seismic) Dynamic Satellite Surveys to do the surveying, Terrex Contracting (TC) to do the line preparation, Scanlon Drilling to do the up-hole drilling and Velocity Data to do the up-hole logging. Cultural heritage surveys were conducted independently before the job started by a clearance team comprising representatives of the Dieri people plus archaeologists, anthropologists and a surveyor.

The crews were billeted in three separate camps that were located at various sites at different times.

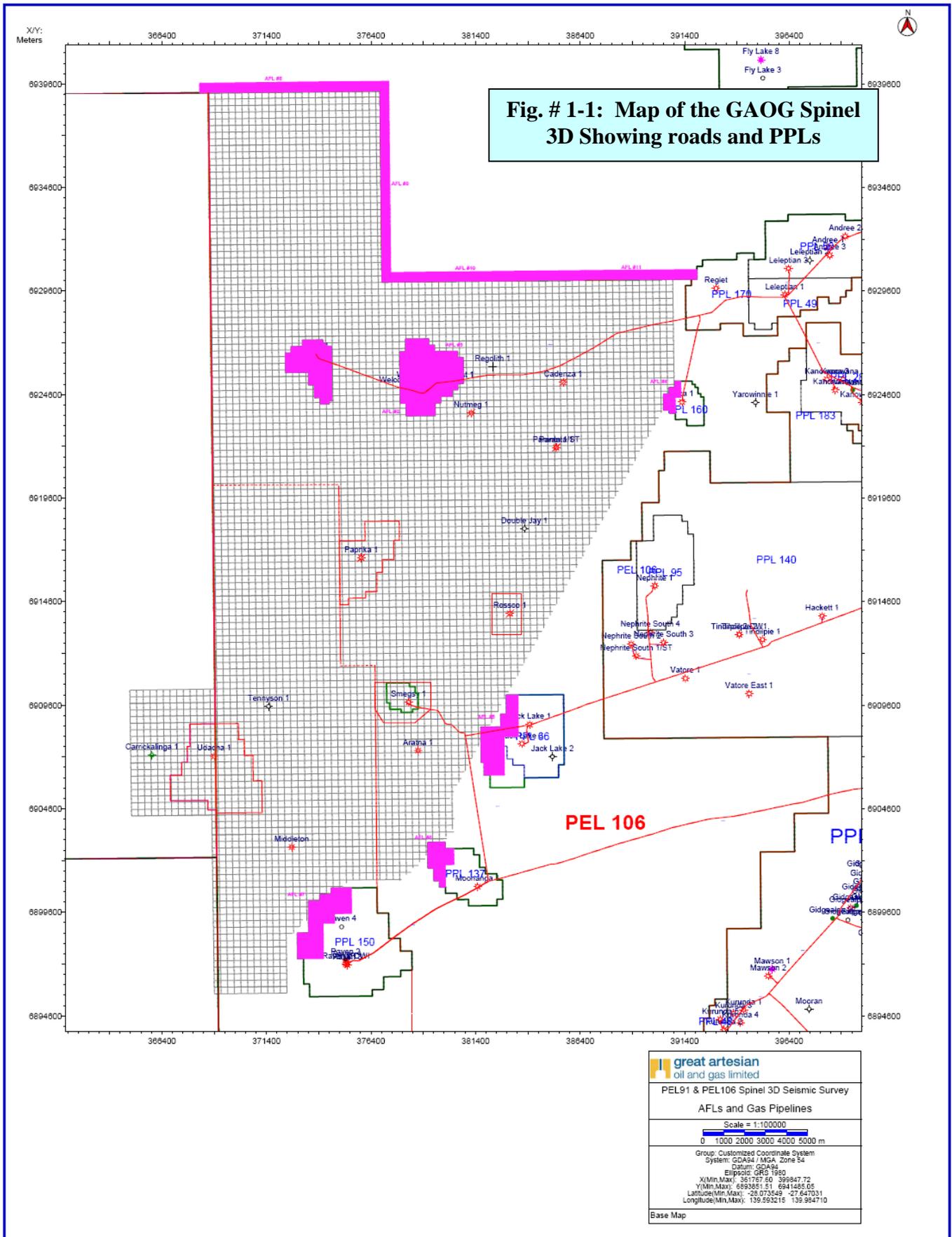
GAOG's Technical Director Chris Carty was in overall control of the project while Bruce Beer was contracted to represent GAOG in the field.

There were no Lost Time Injuries during the job.

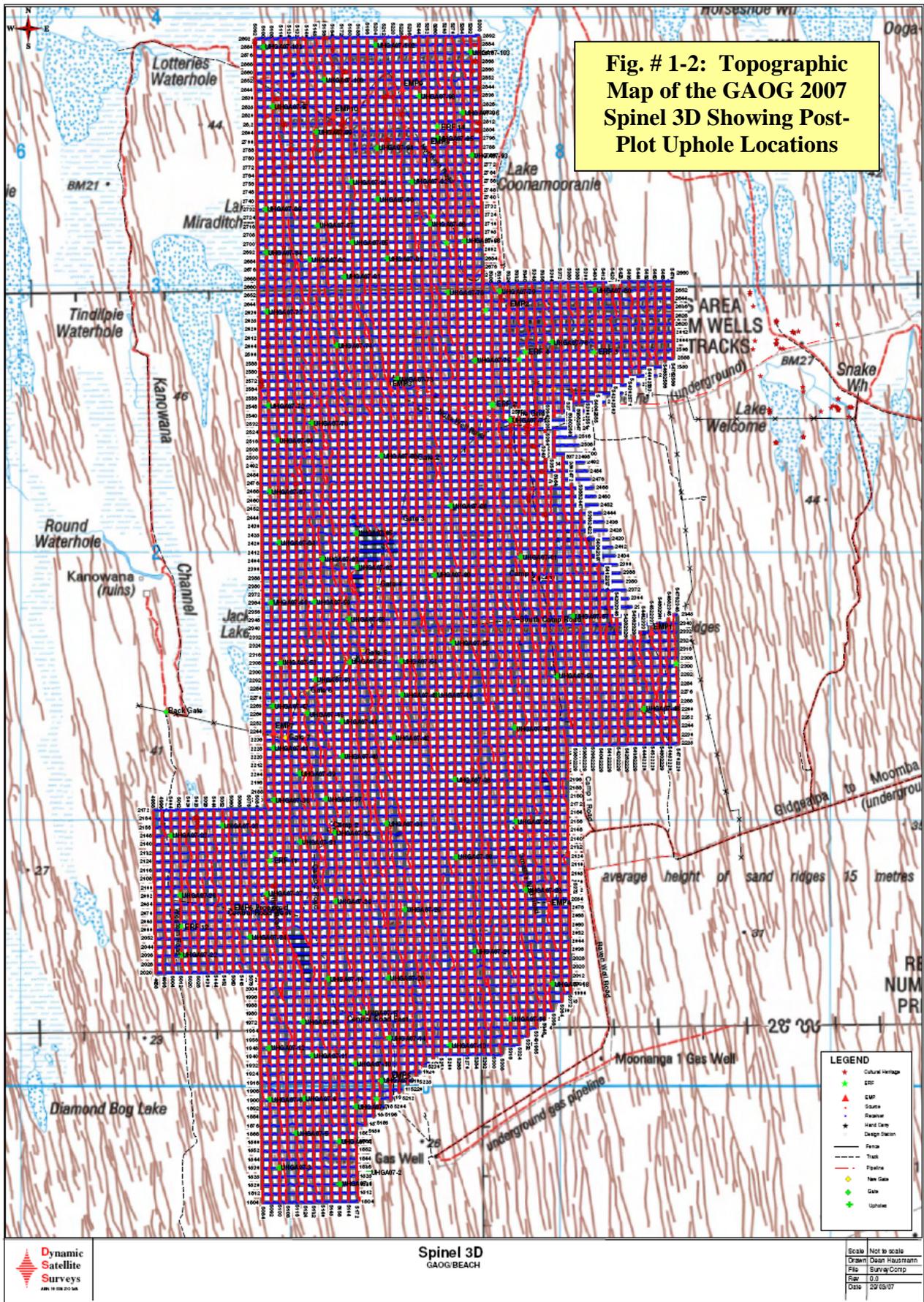
Details of production are contained in the appendices.

Fig. # 1-1 to # 1-5 show maps of the survey area.

1.0 INTRODUCTION



1.0 INTRODUCTION



1.0 INTRODUCTION

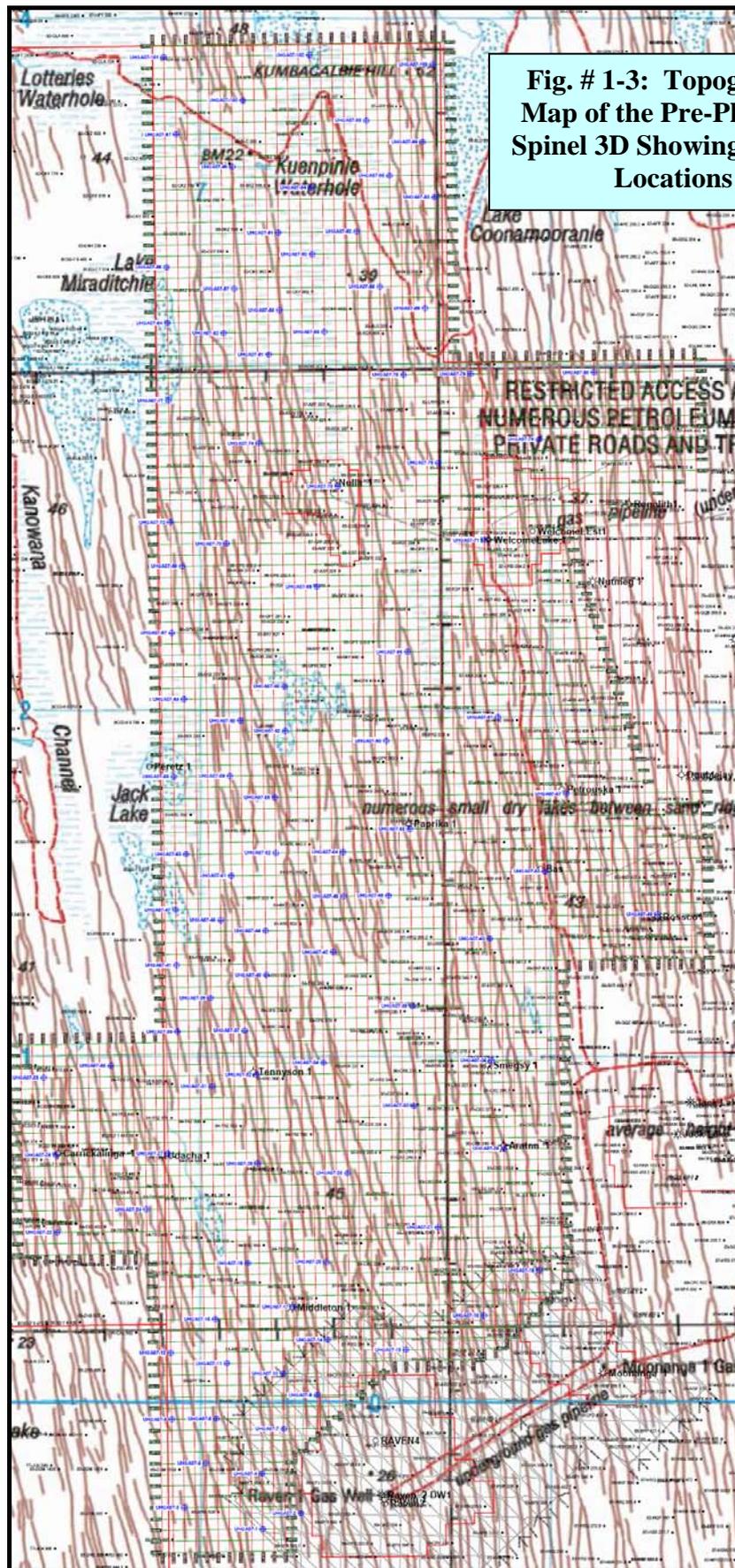


Fig. # 1-3: Topographic Map of the Pre-Plot 2007 Spinel 3D Showing Uphole Locations

1.0 INTRODUCTION



Fig. # 1-4: Lansat Image of the Spinel 3D Seismic Survey area Showing floodplains and salt lakes and old uphole locations.

2.0 LOGISTICS

The Terrex Contracting (TC) dozer camp and Dynamic Satellite Surveys moved to the Spinel area on December 14th, 2007. They camped at the old main campsite for the 2005 Paranta 3D, 10 km north on the Welcome Lake road. They were inducted that night and line preparation began on the 15th. During the job there were two other campsites for TC, one at the Tennyson # 1 wellsite and the other on the Nulla road.

TC obtained camp water from the demin plant in Moomba. Rubbish was taken to the Moomba dump.

Terrex Seismic (TS) moved to Spinel on January 27th. They camped on the same site as TC and the two camps were side by side until TC moved. During the job TS moved twice more; once to the edge of a salt lake near the Tennyson # 1 turnoff and finally to the turnoff to Lotteries waterhole. Camp water was obtained from Jack Lake Bore with the kind permission of Graham Betts. Drinking water was obtained from Moomba. Food supplies were transported from Adelaide to Moomba via Mansell transport.

Scanlon Drilling moved into the area on March 9th, 2007. They camped on the Raven road 1 km south of the Smegsy road turnoff. Drilling water was obtained from the Jack Lake flowing bore with the permission of Graham Betts and the Welcome Lake compressor water bore (with the permission of Scott Travis).

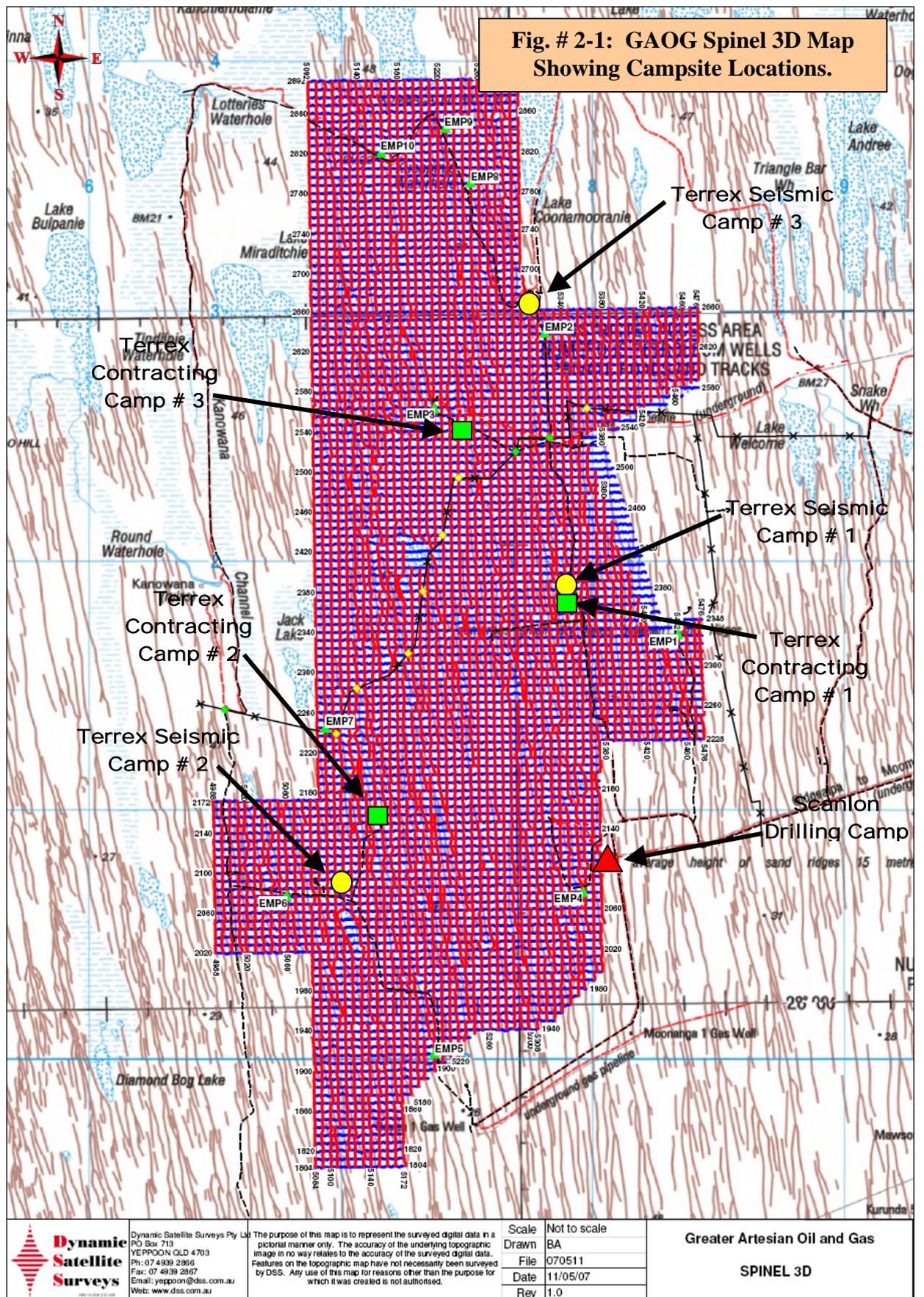
Communication was via satellite telephone and broad-band internet.

Refer to Fig # 2-1 for camp locations.

Register of campsites for the GAOG 2007 Spinel Seismic Survey

| Camp # | Crew Occupying | Easting | Northing | Dates Occupied | Description of Location |
|--------|--------------------|---------|----------|-----------------------------|--|
| TC #1 | Terrex Contracting | 335661 | 6907033 | Dec 14, 2006 - Jan 31, 2007 | 10 km north of the Jack Lake rd turnoff on the Welcome Lake rd |
| TS # 1 | Terrex Seismic | 335661 | 6907033 | Jan 29 - Feb 28, 2007 | 10 km north of the Jack Lake rd turnoff on the Welcome Lake rd |
| TS # 2 | Terrex Seismic | 379117 | 6919066 | Feb 28 - March 26th, 2007 | at the intersection of Middleton/Tennyson roads |
| TC #2 | Terrex Contracting | | | Jan 31 - March 7, 2007 | at Tennyson #1 well-site |
| TC #3 | Terrex Contracting | 374782 | 6925315 | March 7 - March 28th, 2007 | thru gate on Nulla road and over 1st dune |
| SD #1 | Scanlon Drilling | 380773 | 6908401 | March 9 - March 28th, 2007 | on Raven road 1 km south of Raven turnoff on Smegsy road |
| TS#3 | Terrex Seismic | 377675 | 6930402 | March 27th - April 17, 2007 | 5.5 km north of the grid at Welcome Lake |

2.0 LOGISTICS



3.0 TIMETABLE of EVENTS

Dec 15 Start line preparation on Spinel Seismic Survey.

Jan 29 Begin recording on Spinel SS

Mar 10 Scanlon Drilling start up-hole drilling on Spinel Seismic Survey

Mar 26 Complete line preparation on Spinel Seismic Survey

Mar 27 Complete uphole drilling on Spinel Seismic Survey.

Apr 15 Complete recording on Spinel SS

4.0 - PARAMETERS

4.1 General Survey Details

Survey: Great Artesian Oil & Gas Limited 2007 PEL 106/91 Spinel 3D Seismic Survey
 Surface Area: 495.90 sq km (approx)
 Receiver Lines: 137 lines, 320m interval 1721.896 km, stn numbers incrementing by 1
 Receiver Line Numbers: R1804 to R2892, incrementing by 8
 Source Lines: 62 lines orthogonal, 320m interval, 1559.04 km, VP numbers incrementing by 1
 Source Line Numbers: S4988 to S5476, incrementing by 8
 Source recorded into a patch of 10 receiver lines, each having 112 live channels
 Source between channels 56 and 57 and lines 5 & 6.
 Total Source points in Spinel 3D = 38,976; Total receiver Points = 39,134

4.2 Recording Parameters

Instrumentation

Instruments : Sercel 428
 No. Channels : 1120 (10 lines of 112);
 Tape Drives : IBM Ultrium LT02 (dual drive – 200 Gbyte per tape)
 Tape Format : SEG D, Revision 1, 8058 IEEE De-multiplexed, 3490E Cartridge.
 Filters : Dual recorded, noise edited correlated (4 sec) sum.
 Filters : Hi-cut 200 Hz, (0.8 Nyquist, Linear phase) 288 db/octave
 Filters : Lo-cut: Out
 Sample Rate : 2 ms
 Record Length : 4 sec correlated (9 second uncorrelated)
 Noise Edit : Burst plus Diversity
 Correlation : Real Time Zero Phase, after sum
 Phase : SEG Standard

Source

Vibrators : 1 group of 3 x I/O AHV IV's
 Electronics : VibePro Advance III
 Phase : SEG standard format
 Sweep Frequency : 5-90 Hz
 Sweep Length : 5 secs
 Sweep Function : Linear Upsweep
 No. Sweeps : 2 standing
 VP Interval : 40m
 Source Array : 3 vibs in-line, P-P. 12.5m, 2 standing sweeps, centred on peg
 End Tapers (Cosine) : 0.2 sec
 Phase Locking Type : Ground Force
 Amplitude Control : Peak to Peak
 Sweep Amplitude Taper: 100% (none)
 Drive Level : 90%, varied by amplitude control function

Receiver Data

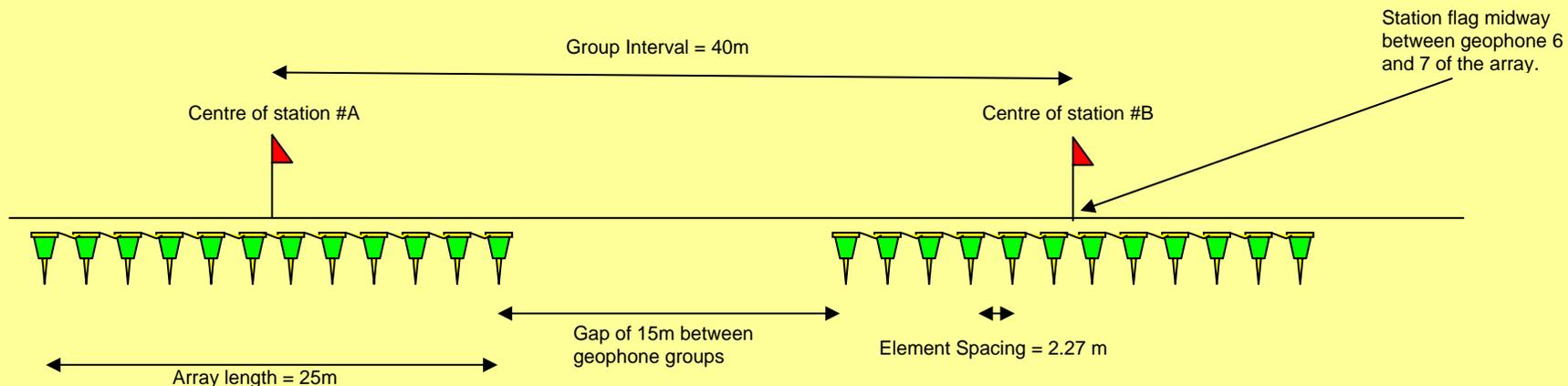
Manuf/Model/Res Freq : Sensor SM4 10 Hz
 No./String : 12
 Connection : Series/parallel

Field Parameters

Receiver Group Interval : 40m
 Receiver Location : Centred on stations
 Receiver Array : 12 phones in-line, 2.27m element spacing, 25m array length
 Spread Geometry : Split, source between groups 56/57 each line
 Fold : 35 (7 in-line and 5 cross-line)

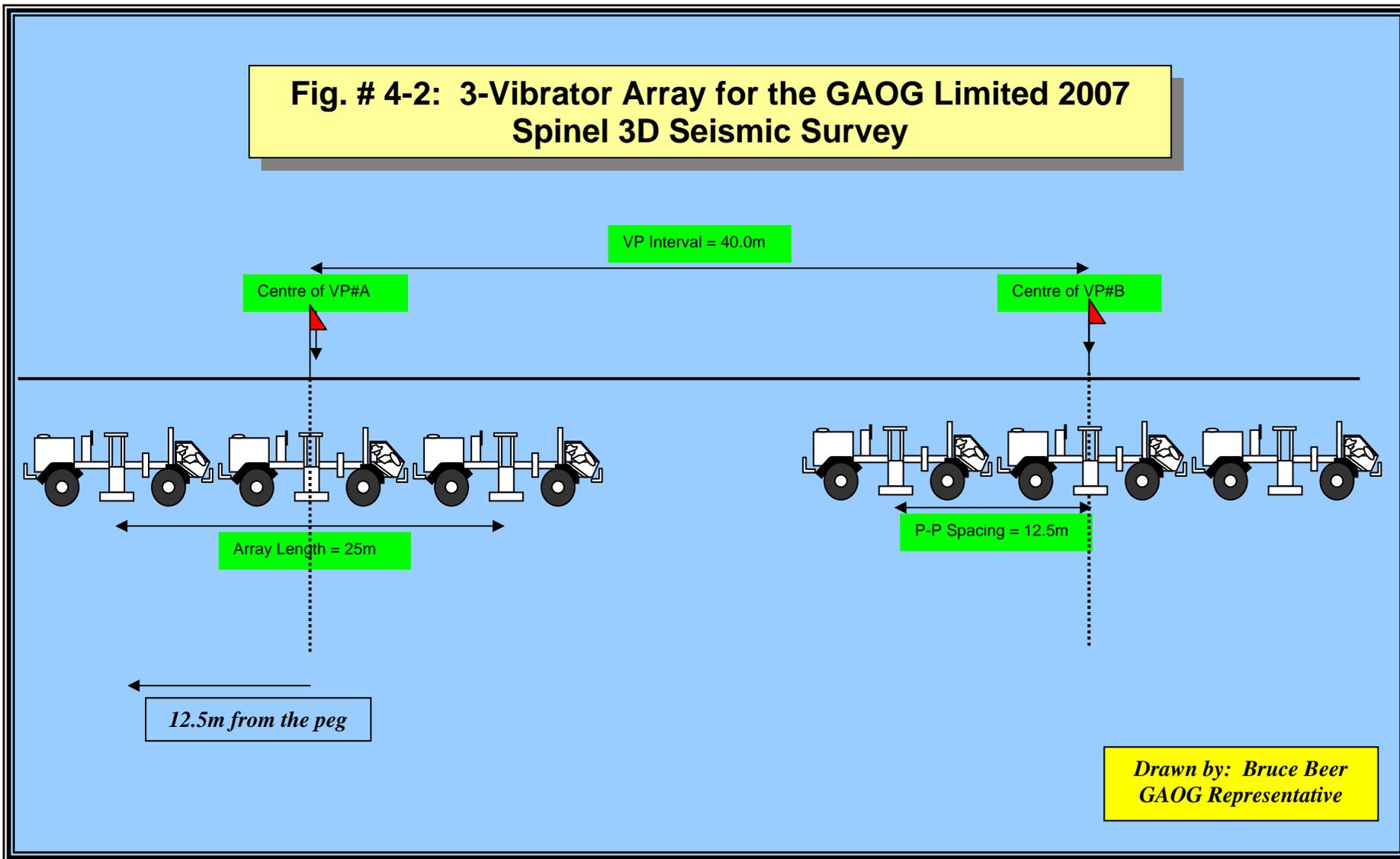
4.0 - PARAMETERS

Fig. # 4-1: Geophone Array for the GAOG Limited 2007 Spinel 3D Seismic Survey



*Drawn by: Bruce Beer
GAOG Representative.*

4.0 - PARAMETERS



5.0 - RECORDING

Introduction

The 2007 Spinel 3D Seismic Survey was located in PEL 106/91 in the western sector of the Cooper/Eromanga Basin, in north eastern South Australia and operated by Great Artesian Oil & Gas (GAOG) Limited. Terrex Seismic carried out the survey. The recording phase was conducted from January 29th, 2007 to April 15th, 2007.

The contract was based on an hourly rate. A total of 495.90 sq kms of 3D seismic data was recorded on 1559.04 linear kms of source lines.

Full production statistics appear in Appendix I.

Terrain

The terrain was a mixture of dunefields surrounding and floodplains with two salt lakes. Some of the dunes, particularly in the northeast, were extremely large and caused access problems.



Picture # 5- 1: GAOG Chairman Peter Hopkins getting out of a vibe.

Equipment

Terrex provided their new Sercel 428 telemetric recording system, along with a field deployment of 2500 x 12 strings of Sensor SM4 10 hz geophones.

5.0 - RECORDING

There were three Input Output AHV IV 60,000 lb vibrators on line with a fourth as spare.

There was one Station Unit (SU) every station. Each cable had 4 takeouts spaced at 55m intervals. There was one Line Acquisition Unit (LAUL) every 40 stations accompanied by a battery to power the line. Each line in the live patch was connected via a LAUX (cross line acquisition unit).



Picture # 5- 2: the AHV IV Vibrators

Parameters

Parameters are listed in Section 4.0.

They included; 5 second sweeps, 4 second listen, 5-90 hz upswEEP, 2 sweeps/vp, 3 vibes, 12.5 m P-P. Line spacing was 320 metres. There were 10 live lines, each with 112 live stations. Station and VP intervals were 40m. This gave an in-line fold of 7, a cross line fold of 5 and an overall fold of 35.

Terrex' new Sercel 428 system was used. It has high density tape drives and hard disc recording facilities so that only 11 tapes were used in the whole survey. It also had the restriction that the only hi-cut filter option available was the $\frac{3}{4}$ Nyquist of 200 Hz.

Panels

5.0 - RECORDING

There were 4 panels in the Spinel 3D. Due to the fact that this was an hourly rate contract the exact composition of these panels was the subject of interminable debate. The panels and recording scripts were made by Harold Cuddie in the US and emailed to the crew. The major points of indecision were whether to have spread or vibrator overlaps. In the end a compromise was made such that:

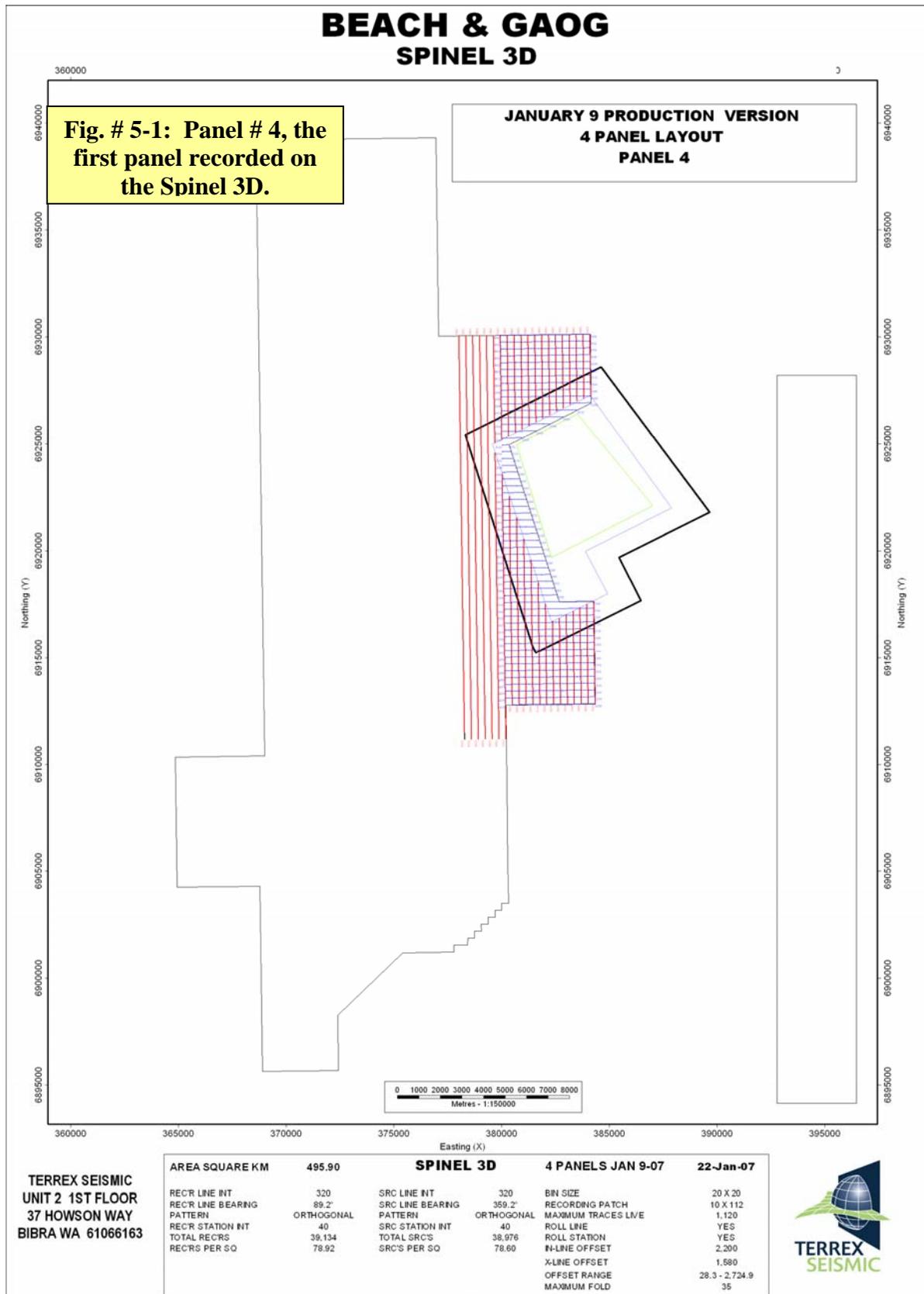
- a. The recording would start at the southern end of panel # 4 and proceed with the northern end of panel #3;
- b. Panel # 4 would have a vibrator overlap to the west with panel # 3;
- c. Panel # 3 would have a vibrator overlap with panel # 4 in the east and a spread overlap with panel # 2 in the west;
- d. Upon completion of panel # 3 in the south, the spread would be moved over to small panel # 4 which had a vibrator overlap with panel # 2 in the east;
- e. The final panel, panel # 2 contained more than half area of the job. It had a spread overlap with panel # 3 in the east and a vibrator overlap with panel # 4 in the west.

The panels are shown in Fig # 5-1 to 5-4. This proved to be cost effective in the end.

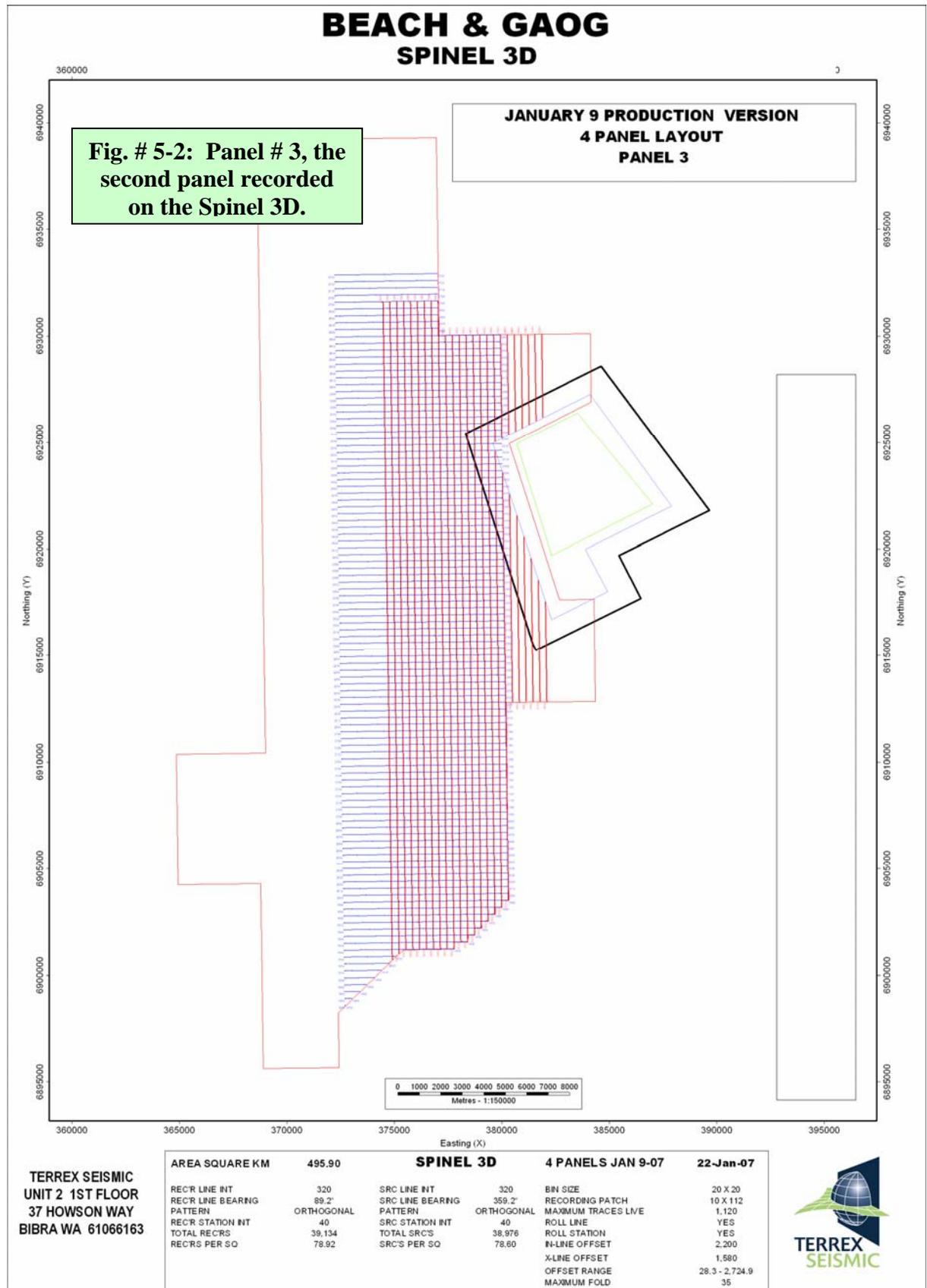


Picture # 5- 3: Chris Carty and observer Mitchell Burton in the dogbox

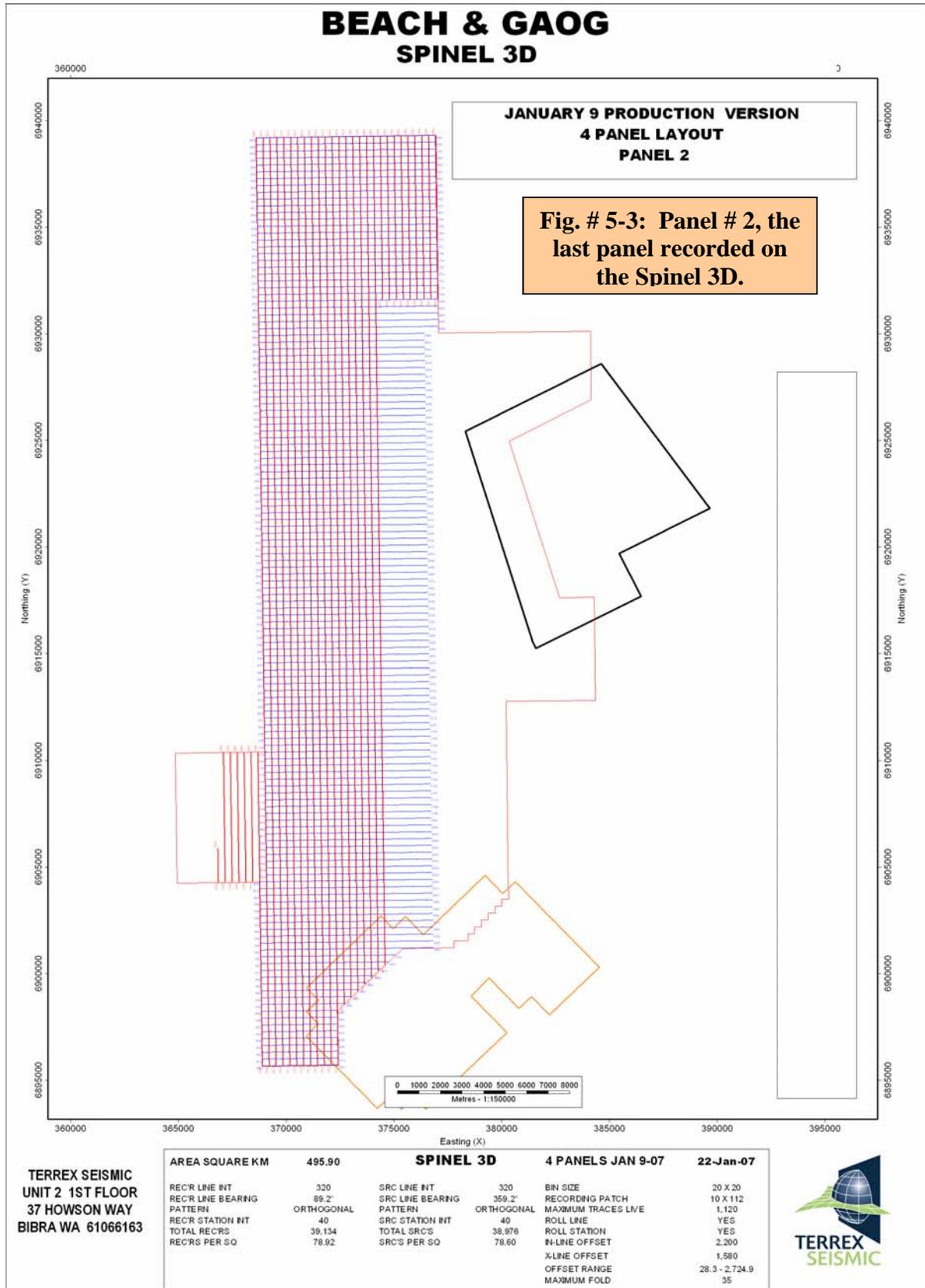
5.0 - RECORDING



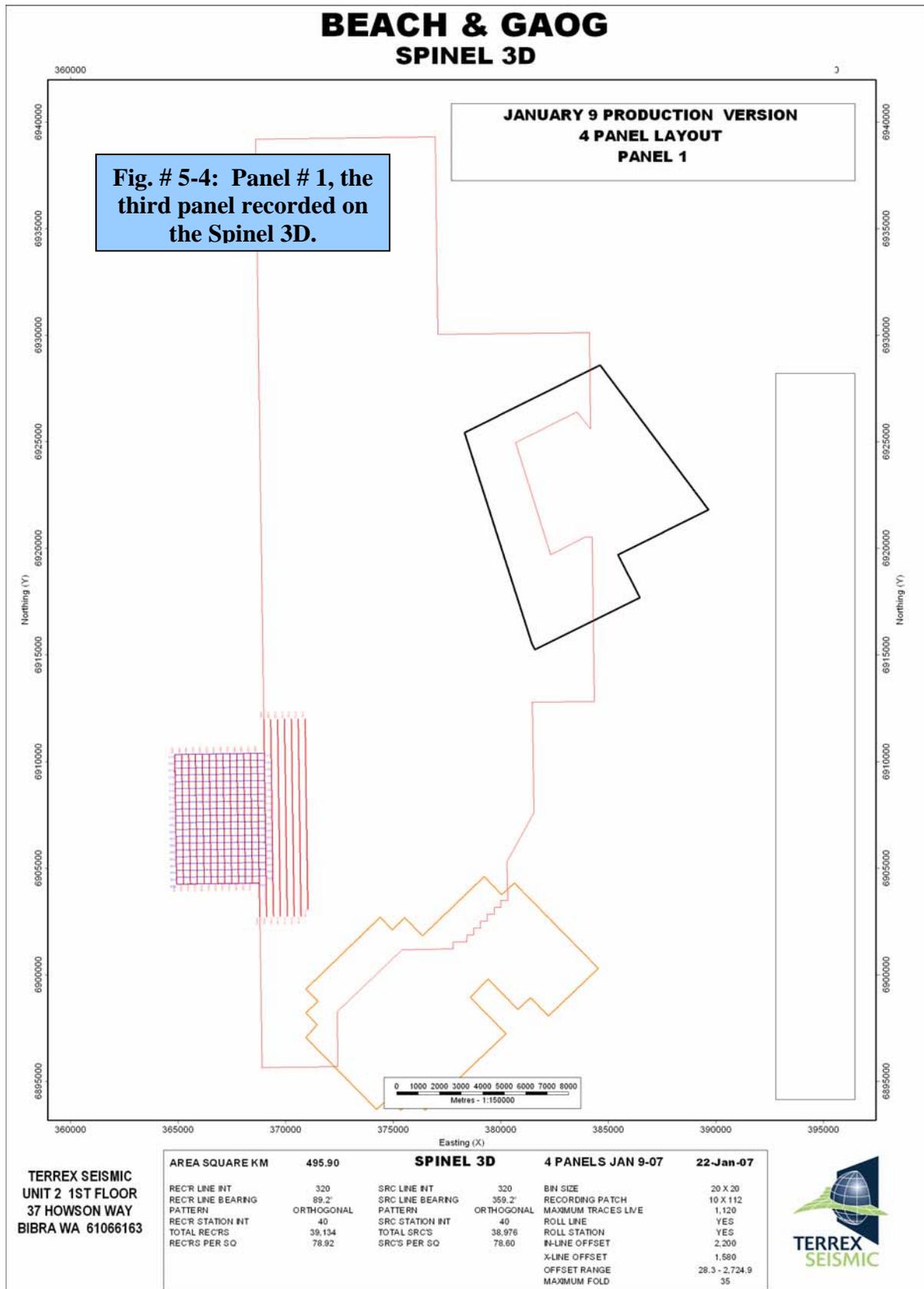
5.0 - RECORDING



5.0 - RECORDING



5.0 - RECORDING



5.0 - RECORDING

Crew Strength

The following table details the strength and disposition of the crew:

Table 1: Terrex Seismic Crew Strength and Disposition as on 18-3-07

| <u>Contract Requirement</u> | <u>Actually on Crew</u> |
|--|--|
| Crew Manager (1) | Mark Kneipp/Jon Turner (1) |
| HSE Representative (2) | Sarah Anderson/Geoff Oswell (2) |
| Geophone Repair (3) | Ben Humphries (1) |
| Senior Vehicle Mechanic (3) | Andrew Cummins, Michael Rohrach (2) |
| Supply Driver (1) | Mick McKenna (1) |
| Camp Cook (2) | Dennis Viney/ Shane McKiernan (2) |
| Kitchen Hand (1) | Jeremy Brown (1) |
| Camp attendant (1) | Mary Gravino (1) |
| Senior Vibe Tech (1) | Edward Manning (1) |
| Vibe Scout (0) | Dave Lynch (1) |
| Lead Vibe Operator (1) | Dave James (1) |
| 3 Vibe Operators (3) | Wade Atkins, Shane Shuffelbottom, Greg Fox (3) |
| Senior Observer (1) | Mitch Burton (1) |
| Junior Observer (1) | (0) |
| Line Boss (1) | Alyx Capper (1) |
| Trouble Shooters (2) | Lee Manning, Greg Little (2) |
| De-pegger (0) | Ronald Hanush (1) |
| Cable truck personnel (6) | 6 people on 3 cable trucks (6) |
| Jug truck (3) | 2 jug truck personnel (2) |
| Line crew (15) | Line crew (15) |
| Total Contract Requirement = 48 | Actually on crew = 45 |

From Table #1, it can be seen that the crew strength on this day was below contract specs. This was the case for most of the job.

Operations

There was only one fence in the whole survey. This was the boundary fence between Clifton Hills to the northwest and Mungeranie to the southeast. The original plan was to install proper cyclone gates in this fence but both Graham Betts (Mungeranie) and Travis Gilby (Clifton Hills) rejected this idea so temporary drop gates were installed instead by Scott Travis.

5.0 - RECORDING



Another factor affecting recording was the crossing of two salt lakes. To minimise the likely delays, camp personnel laid geophones ahead of the line crew. Source lines were offset as much as possible but there were still 88 skips on the job.

Sand dunes again caused problems. This area has some of the largest dunes in the Cooper Basin. Terrex vibrators are not fitted with sand tyres and their mechanics were reluctant to lower the pressure on the heavily lugged tyres for fear of sidewall stakes. As a result there was considerable detour time. Early in the job a decision was made to request the dozer operators to make side cuts on very steep dunes. This alleviated the problem to some extent.

2 Vibrators per VP

When excessive detours were likely, the vibrators were split into 2 groups of 2. In this circumstance they increased the sweeps/VP to 4. After using this practice extensively in the big dune area of the north east, Terrex' vibrator technicians complained that they did not have time to do maintenance on the 4th vibrator so the practice was reduced.

Grouped Geophones

The line crew front juggies adopted the practice of grouping geophones when the elevation range over the geophone length was too great. This is to reduce smearing due to statics variation over the array. The rule of thumb was that if the height

5.0 - RECORDING

change was more than the height of the juggy then he or she would group it around the peg in a 2 x 1 metre parallelogram.

Production

Fig. #5-1 below details daily VP production in the 2007 Spinel Seismic Survey:

Fig. # 5-6: VP Production on the GAOG 2007 Spinel 3D

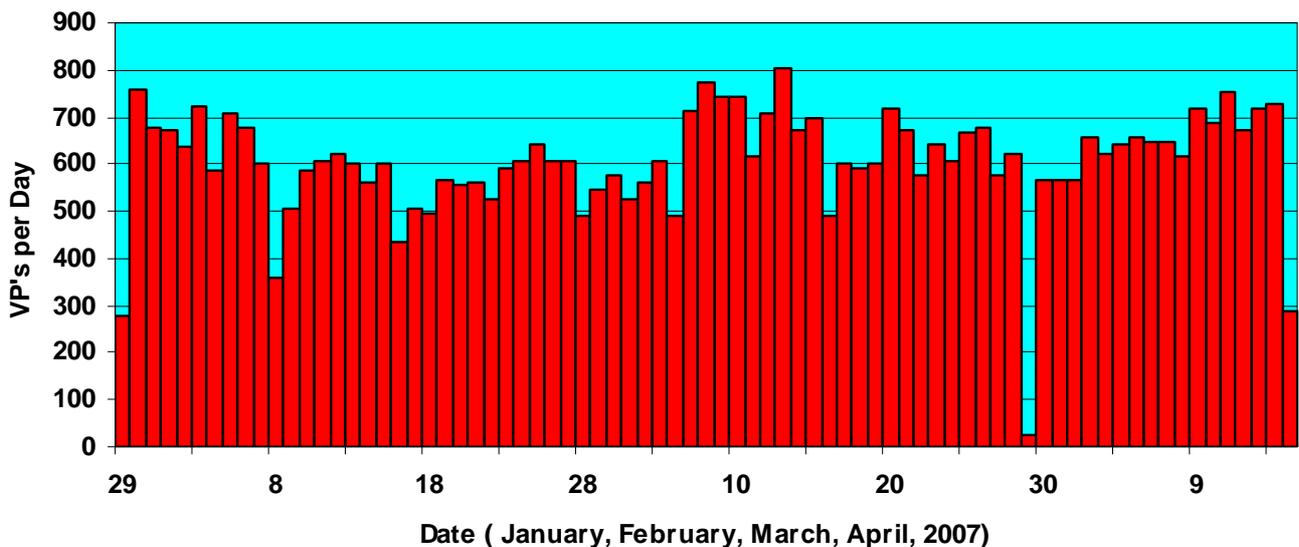


Fig. # 5-6 shows the total VPs per day including overlap VPs. The average per day was 612.7 VPs/day.

Fig. # 5-7 shows the production in terms of linear kms/day and square kms/day:

5.0 - RECORDING

Fig. # 5-7: Production in Terms of Linear Kms and Square Kms per Day on the GAOG 2007 Spinel 3D

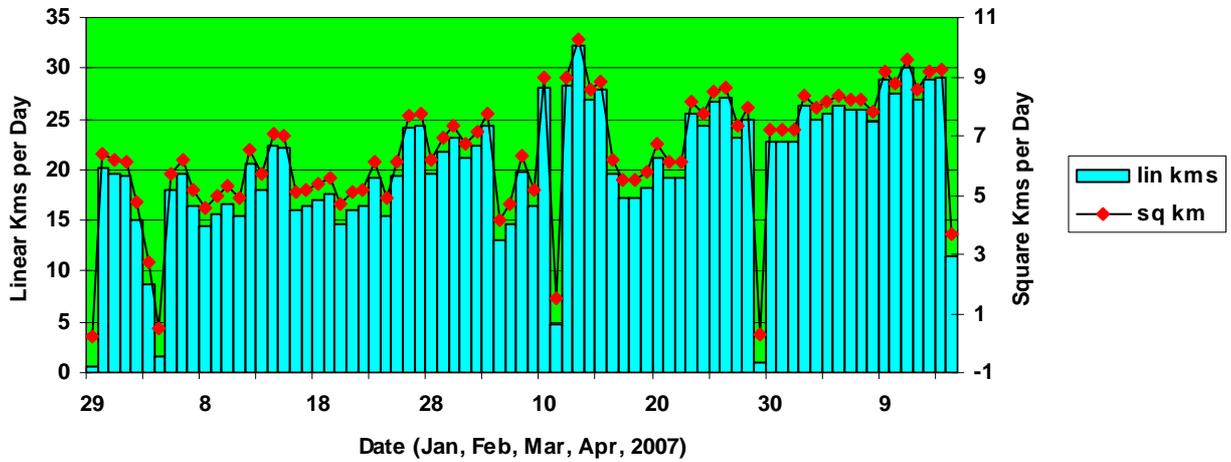
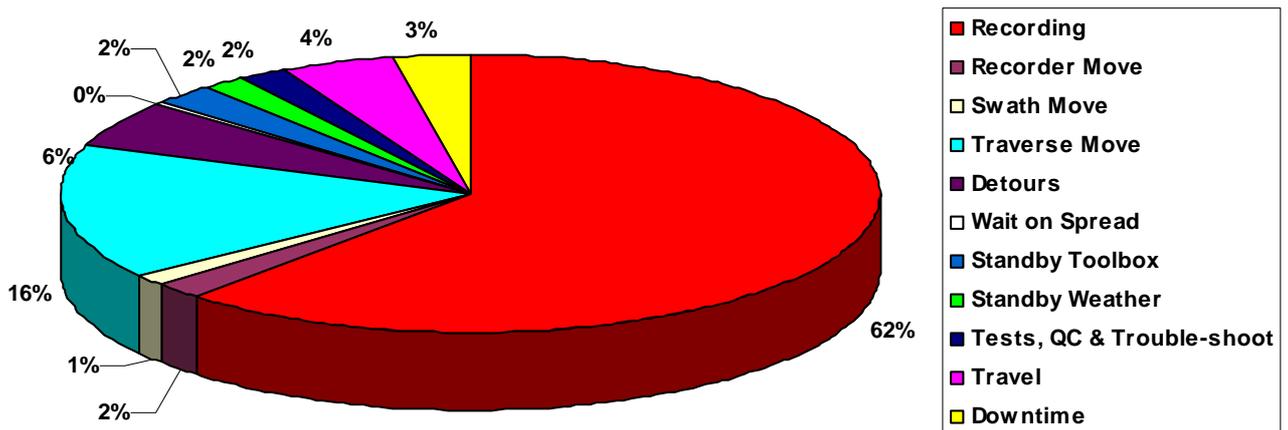


Fig. # 5-7 shows that the highest production was over 10 square kms per day. The average production was 6.52 sq km/day. This is an excellent rate of production.

Fig. #5-8 shows the distribution of recording hours in percentage terms for the 2007 Spinel Seismic Survey:

Fig. # 5-8: Distribution of Recording Hours on the GAOG 2007 Spinel 3D



The above pie chart shows that 62% of total time was spent recording. Note that layout and pickup time and mobe time are not included. The 40 hours standby at the

5.0 - RECORDING

last program before moving is also not included. The single biggest other time user was traverse move at 16%. The downtime figure of 3% is acceptably low and was due mainly to instances of the instruments freezing and having to be re-booted. The cause of this problem was difficult to pinpoint and is thought to have been due to static electricity discharges from the plastic desktops. In an effort to reduce this, Terrex installed rubber mats on the desktops.

Table #5-2 below details the statistics:

Table 5-2: Statistical Summary of the 2007 Spinel Seismic Survey

| | |
|-----------------------------------|---------------------------------------|
| Start date | January 29 th , 2007 |
| End Date | April 15 th , 2007 |
| Total Recorded Linear Kms | 1559.04 |
| Total Recorded Square Kms | 495.90 |
| Total Recording Hours | 585.2 |
| Total Standby Rate Charge Hours | 38.4 (excluding the stby before mobe) |
| Total Overall Hours | 988.8 (excluding mobe, l/o & p/u) |
| Total Recording Days | 76 (including part days & down days) |
| Average Linear Km/Day | 20.51 |
| Average Square Km/Day | 6.525 |
| Average Linear Km/Recording Hr | 2.66 |
| Average Square Km/Recording Hr | 0.847 |
| Total VPs | 46564 (including overlap VPs) |
| Average VPs per Day | 612.7 |
| Total Skips | 88 |
| Percentage Skips/Possible VPs | 0.19 % |
| Average Recording Cycle Time | 45.24 seconds/VP |
| Efficiency Factor (Rec Hr/Tot Hr) | 62% |

The figures in Table # 2 point to a very efficient survey.

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Picture # 5- 4: front juggy laying phones.

Data Quality

Data quality was good. The Permian section was strong at around 1.8 seconds.

Sample paper monitor records are shown in Sample Monitor # 5-1 and 5-2. It must be noted that the monitor records have a 25 Hz low cut playback filter applied to them. The observers do this to cosmetically clean up the record and make it easier to trouble shoot. But the effect is to mask the lower frequencies and, in particular, the full impact of ground-roll.

Sample Monitor # 5-1 is from Line S5236 VP# 2561. It shows a strong Permian reflector at 1.9 secs and a strong C horizon at 1.4 secs.

Sample Monitor # 5-2 is from Line S5236 VP# 2696. It shows a strong P at 1.85 secs and C at 1.45 secs.

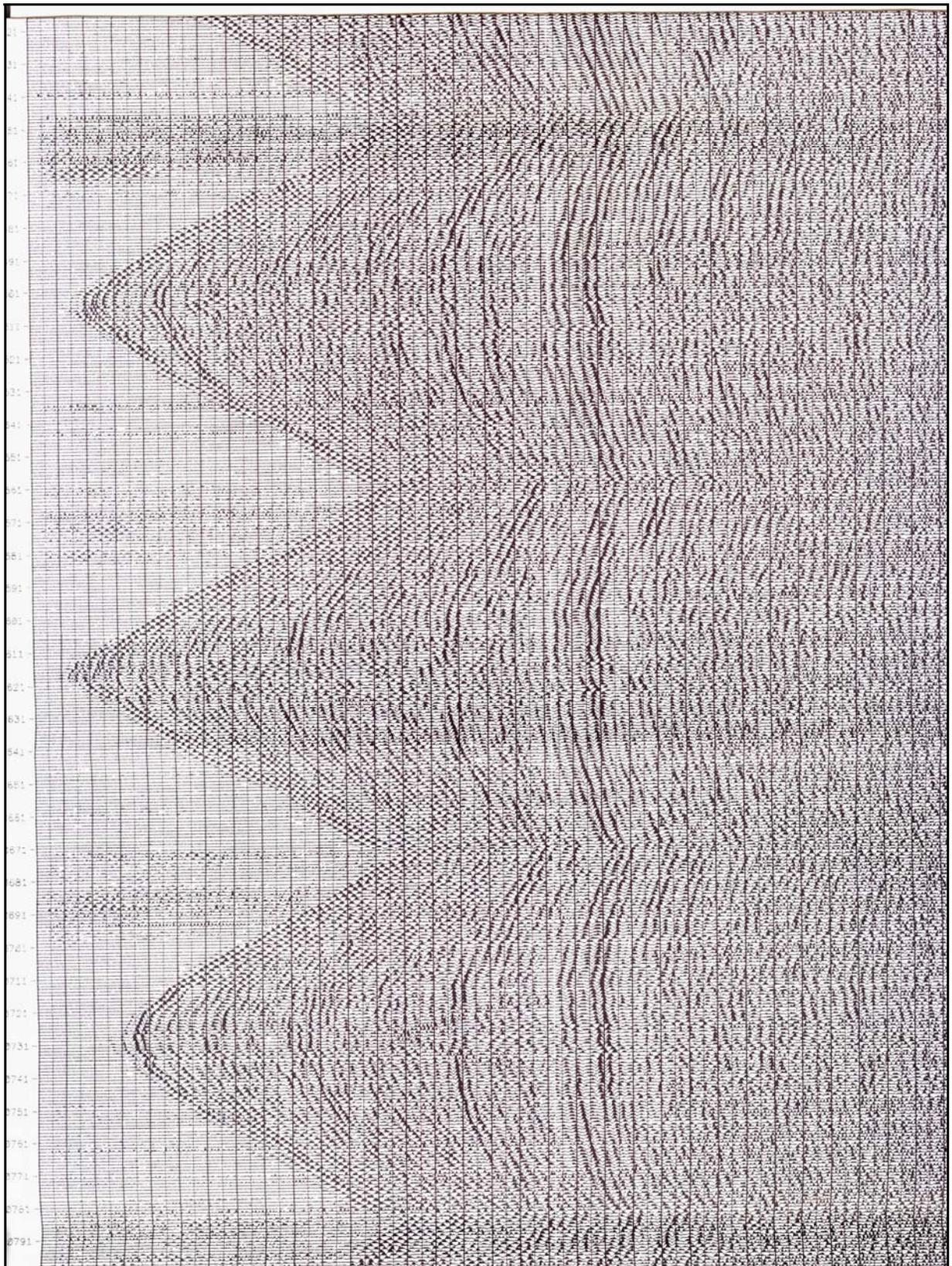
The sample monitors show a consistently good data quality.

5.0 - RECORDING



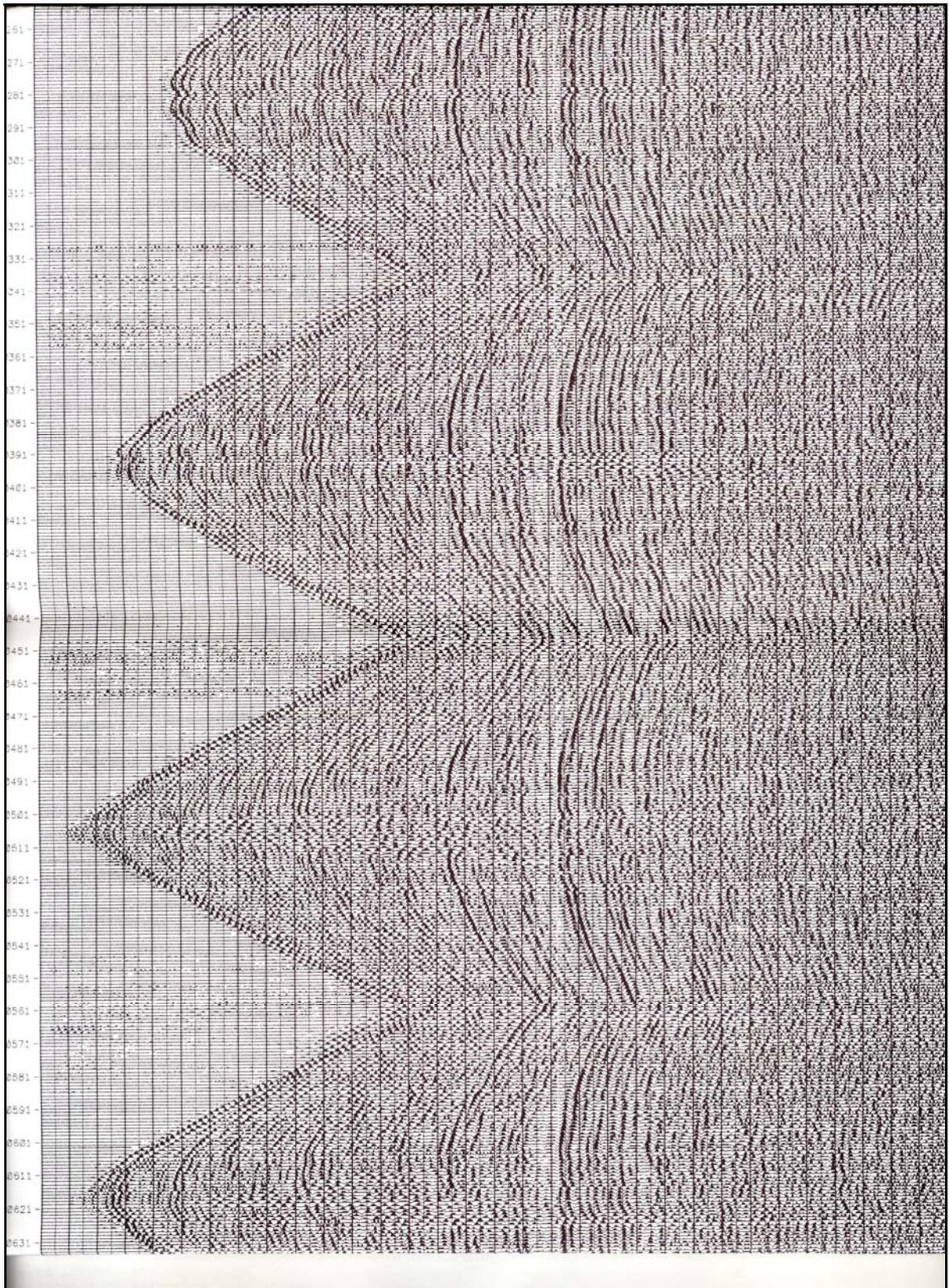
Picture # 5- 5: Mitch Burton at the controls with line boss Alyx Capper

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Sample Monitor # 5- 1: part of monitor from Line S5236 stn # 2561

5.0 - RECORDING



Sample Monitor # 5- 2: part of monitor from VP # 5236/2696

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Picture # 5- 6: GAOG CEO Ray Shaw, Technical Director Chris Carty and Beach's Doug Roberts walk back from a salt lake in the middle of the 3D.

Observer & Line Boss

The observers on this job were Dave Burger, Mitch Burton and Hamish Hume. Hamish is a mature age trainee who was only on the early part of the job before being transferred to another crew. Dave Burger is a very experienced Canadian observer who resides in Peru and was doing his last job for Terrex. Mitch Burton is a trainee observer who was sent on a Sercel 428 course in France during the job. He had just reached the stage of being able to operate on his own. He shows great promise.

The line boss was Warren Campbell. He was relieved by Alyx Capper. Warren is regarded as Terrex' best line boss and was about to move into management when on this job.

All did an excellent job.

Summary

This was an excellent performance by the Terrex crew. Production was excellent and restricted only by some weather standby time.

Data quality was good in all areas.

5.0 - RECORDING



Picture # 5- 7: Tony Miller throwing cable off a cable truck.



Picture # 5- 8: Trouble shooters Kelley Smith and Liam Byrne checking a LAUX.

5.0 - RECORDING



Picture # 5- 9: trouble shooter Keeley Miles

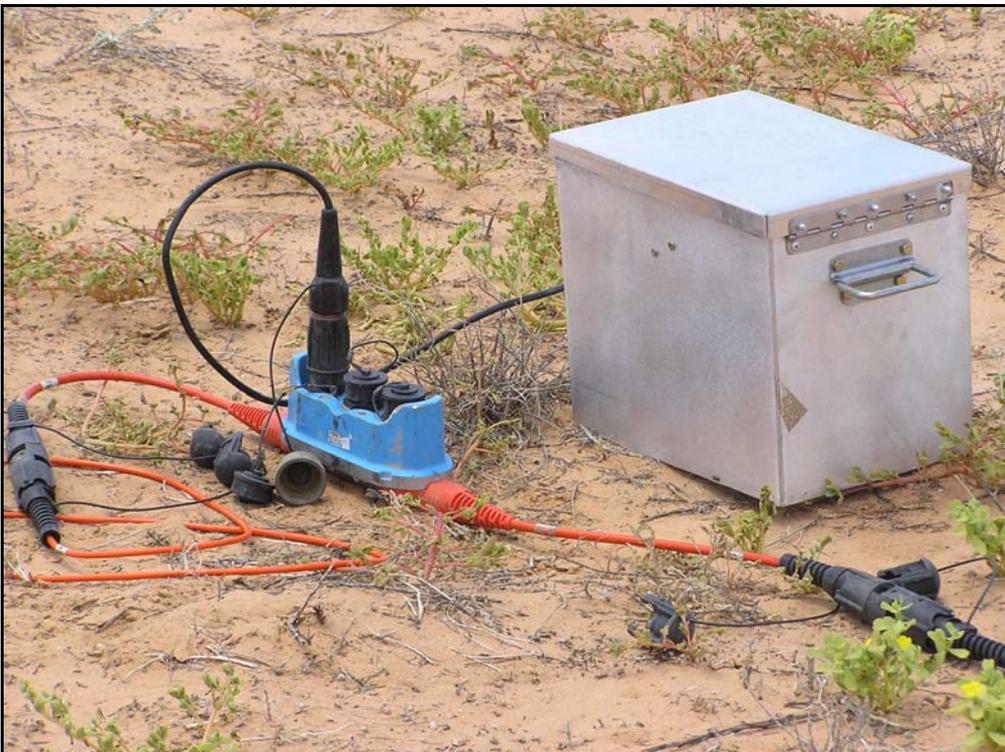


Picture # 5- 10: l-r; Hamish Hume, Dave Burger, Chris Carty, Doug Roberts in the dogbox

5.0 - RECORDING



Picture # 5- 11: unloading the spread truck at the start of the job.



Picture # 5- 12: LAUL and battery unit

6.0 DRILLING & LVL

Introduction

The uphole program for the 2007 Spinel 3D Seismic Survey was short and designed to fill in the gaps between old upholes from 2D lines. It consisted of 103 holes (see Map # 6-2). Total metres drilled and logged were 3272. Drilling began on March 10th and was completed on March 27th, 2007

Scanlon Drilling from Kalgoorlie WA was contracted to do the uphole drilling while Velocity Data was contracted to do the logging. The drilling contract was let on an hourly rate (+ consumables) basis while the logging contract for Velocity Data was let on a similar basis. Both were subcontracted through Terrex Seismic. Full production statistics appear in Appendix II, III and VI.



Picture # 6- 1: Scanlon drilling rig with Brett Andrew at the controls.

Scanlon Drilling & Velocity Data

Equipment

Table 6- 2: Equipment list for Scanlon Drilling Company

| <u>Item</u> | <u>Description</u> |
|--------------|---|
| Drilling rig | Bourne 1000 mounted on an MAN 6x6 truck |
| Water trucks | 2x Hino 4x4; 4500 litre tanks |
| Water truck | 1x International S-Liner 6x4; 12,000 litre tanks; |
| Camp | 1x kitchen/diner/sleeper van |
| Camp | 1x sleeper van |

6.0 DRILLING & LVL

| | |
|----------------|---|
| Ablution | 1x trailer with chemical toilet mounted |
| Utility | 1x Toyota 4x4 Station Wagon |
| Communications | All vehicles have UHF radios; 2 x satellite telephones; |

Velocity Data provided their Toyota Hi-Lux mounted weight drop logging unit and an accommodation/office caravan.



Picture # 6- 2: VD's Nathan Jones with the logging unit

6.0 DRILLING & LVL

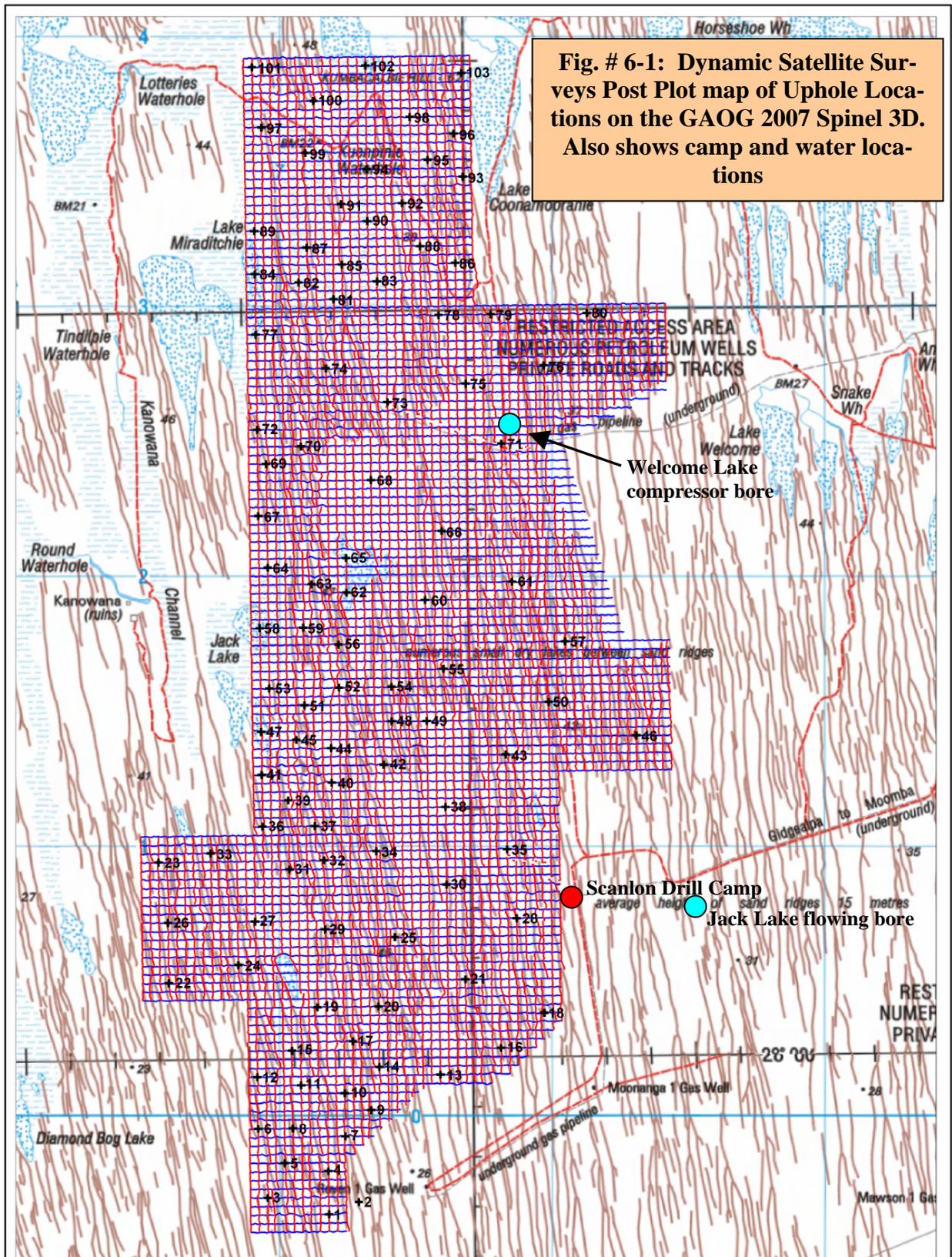


Fig. # 6-1: Dynamic Satellite Surveys Post Plot map of Uphole Locations on the GAOG 2007 Spinel 3D. Also shows camp and water locations

| | | | | |
|---|---|--|---|--|
| <p>Dynamic Satellite Surveys APR 19 2007 2:11:34 PM</p> | Dynamic Satellite Surveys Pty Ltd PO Box 713 YEPPON QLD 4703 Ph: 07 4939 2866 Fax: 07 4939 2867 Email: yeppoon@dss.com.au Web: www.dss.com.au | The purpose of this map is to represent the surveyed digital data in a pictorial manner only. The accuracy of the underlying topographic image in no way relates to the accuracy of the surveyed digital data. Features on the topographic map have not necessarily been surveyed by DSS. Any use of this map for reasons other than the purpose for which it was created is not authorised. | Scale 1:125000 @ A3 Drawn Denis Williams File Upholes Map Date 19-04-2007 Rev 1.0 | Greater Artesian Oil and Gas SPINEL 3D |
|---|---|--|---|--|

6.0 DRILLING & LVL

In order to give an example of the weathering profile in the area, line GAS07-R2156 has been selected because it has 3 upholes on it. Using elevations provided by DSS and taking the weathering depths as interpreted by Velocity Data from hole # 33, 34 and 35, a value for the elevation of the base of weathering was calculated at each up-hole location. Using the series-trend function in Excel, a linear interpolation was made between each control point. The results were plotted as follows:

Fig. # 6-2: Weathering Profile of Line R2156 on the GAOG Spinel 3D Uphole Survey

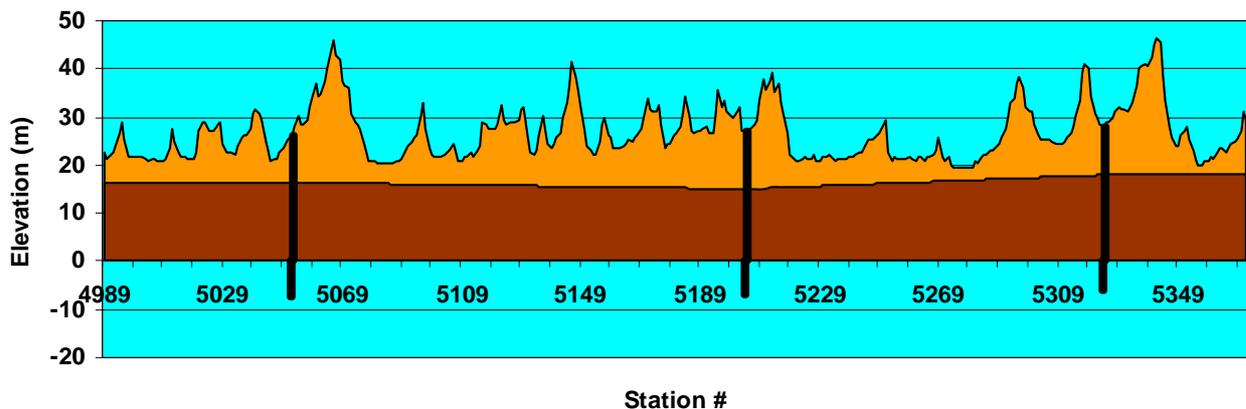
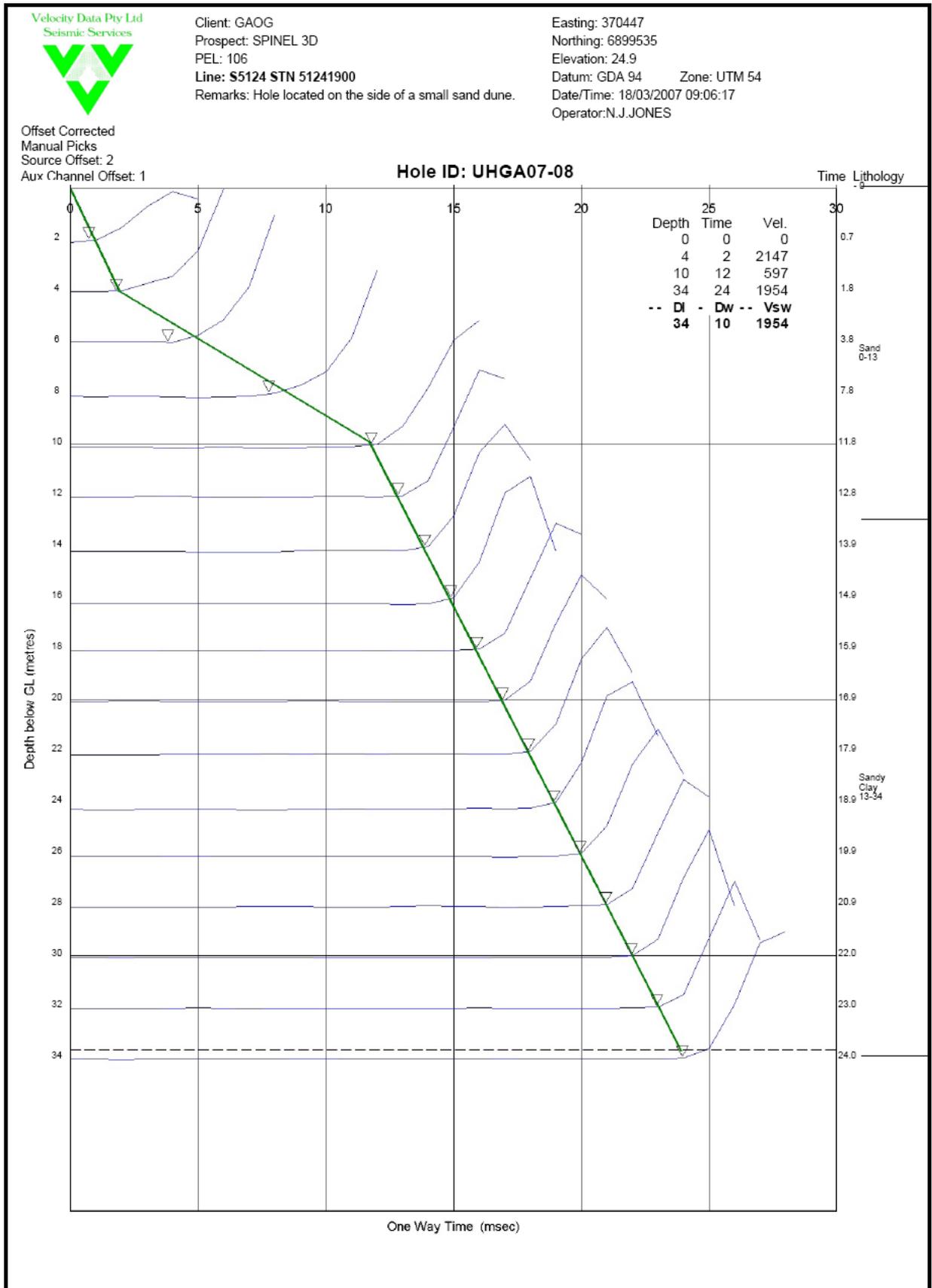


Fig # 6-2 shows a consistent base of weathering varying only 1m over the line. The uphole locations are plotted in the chart. Note that all were drilled below weathering and below datum.

The model used in the plot in Fig. # 6-6 assumes that the base of weathering is linear between control points. 3 up-hole plots were used in producing the above chart. They were DHGAS07-33, 34 and 35. The weathering profiles in these up-holes tend to confirm that this model is approximately correct.

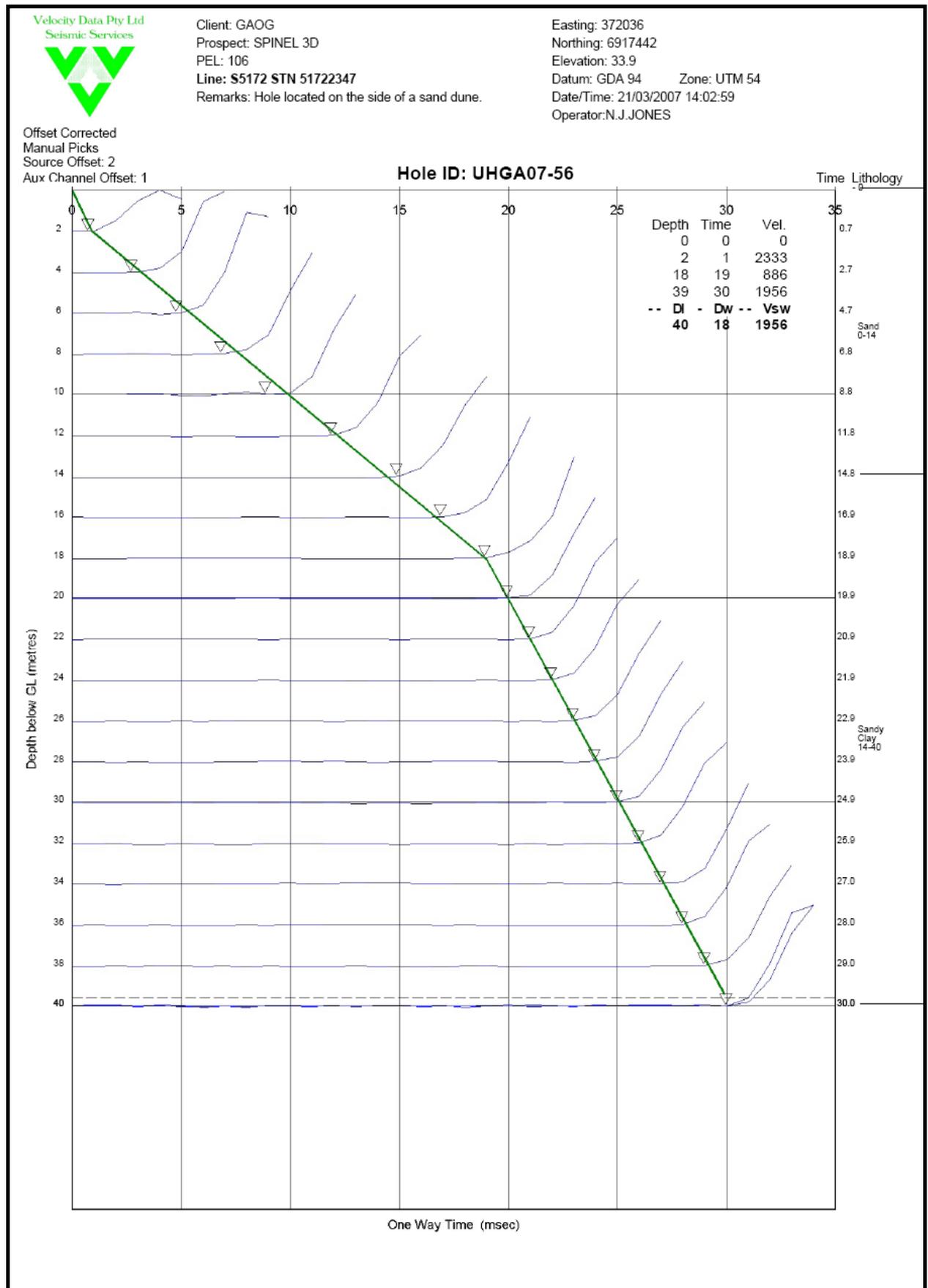
Sample uphole plots for UHGA07-08 and 56 show typical plots for this area;

6.0 DRILLING & LVL



One Way Time (msec)

6.0 DRILLING & LVL



6.0 DRILLING & LVL

The table below gives the statistics:

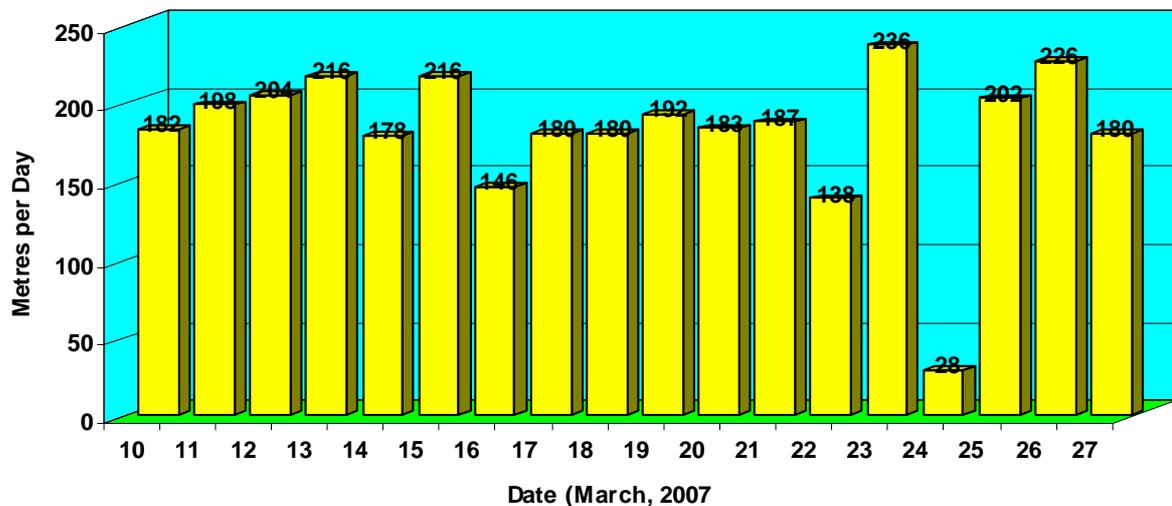
Table 6- 3: Statistics for Scanlon Drilling on the 2007 Spinel PEL 106/91 3D Uphole Survey

| | |
|---|-------------------------------|
| Start Date | March 10 th , 2007 |
| End date | March 27 th , 2007 |
| Total Days | 18 |
| Total Holes Drilled | 103 |
| Average Holes/Day | 5.72 |
| Total Metres Drilled | 3272 |
| Total Full Rate Drill Hours | 195.25 |
| Total Standby Hours | 7.5 (excluding mobilisation) |
| Average metres per Day | 181.8 |
| Average Depth of Hole | 31.77 metres |
| Average Depth of Weathering | 9.24 metres |
| Average Metres/Full Rate Drill Hr | 16.75 |
| Average Metres/Total Charge Hr | 16.14 (excluding mobe costs) |
| Scanlon Drilling Driller | Russell St Jack/Brett Andrew |
| Velocity Data Logger(s) | Nathan Jones |
| Total 4 ³ / ₄ " Regular bits used | 9 |
| Total bags Citric Acid | 0 |
| Total TCI bits used | 0 |
| Total drums of Biovis used | 50 |
| Total bags of AquGel used | 0 |

Given the difficulty of moving in the large soft dune environment, the above figures point to a well run operation.

Fig. #6-3 shows production for Scanlon Drilling on the Spinel 3D:

Fig. # 6-3: Scanlon Drilling Production on the GAOG 2007 Spinel 3D



6.0 DRILLING & LVL

The above chart shows that daily production was usually in the high 100's and low 200 metres/day. The average production was 181.78 metres per day. Given the standby for weather on the 24th, this is a good average.

Summary for Scanlon Drilling and Velocity Data

Scanlon Drilling handled this difficult area with skill and resourcefulness. For a time they were down to 2 personnel due to family emergencies for others. Even with two people they managed to keep up a good average.

Velocity Data had Nathan Jones doing the logging. Nathan was efficient and helpful to the drillers when they were short handed.

Both Scanlon Drilling and Velocity Data are recommended for future work.



Picture # 6- 4: emptying the mudpit at the completion of a hole.

6.0 DRILLING & LVL



Picture # 6- 5: Scanlon drillers at work

7.0 – LINE PREPARATION, SURVEYING, PERMITTING & ENVIRONMENT

Introduction

Terrex Contracting (TC) was contracted to do the line preparation on the 2007 Spinel 3D Seismic Survey. Dynamic Satellite Surveys was contracted to do the surveying. Cultural heritage clearance was done independently of the seismic operation before the crews arrived by a Work Area Clearance (WAC) team contracted directly to GAOG. Details of the WAC sites were provided to the surveyors and included in the line files loaded in to dozer gps units.

Equipment

Terrex Contracting provided the following equipment:

Table # 7- 1: Terrex Contracting Equipment List

| <u>Item</u> | <u>Number</u> |
|--|----------------------|
| Komatsu D65EX Dozer with 14' blade | 2 |
| Komatsu D65EX Dozer with 12' blade | 2 |
| John Deere 672 6x6 Grader | 1 |
| Caterpillar 12G 6x4 Grader | 1 |
| Railway carriage converted to kitchen/diner/accommodation; 60' | 1 |
| Railway carriage converted to food stores/accommodation; 60' | 1 |
| Accommodation caravan 30' | 1 |
| 4x4 support vehicles | 2 |
| 18,000 litre stainless steel water tanker trailer (former milk trailer) | 1 |
| 1 semi trailer with workshop (in 2 sea containers) | 1 |
| Generator trailer with 2 generators | 1 |
| Broadband internet and telephone communications system | 1 |
| Trailer mounted chemical toilets | 2 |

7.0 – LINE PREPARATION, SURVEYING, PERMITTING & ENVIRONMENT

The table below shows the TC personnel:

Table # 7- 2: Terrex Contracting Personnel List for the 2007 Spinel Seismic Survey

| <u>Name</u> | <u>Position</u> |
|-------------------------|---------------------------------|
| Mat Gower | Supervisor/mechanic |
| Matt Thomas | Grader operator/offsider |
| Eric Ree | Dozer operator |
| John Talbot | Grader operator |
| Selwyn Price | Dozer operator |
| Bill Anderson | Dozer operator |
| Robert Brown | Dozer operator |
| Max Young | Grader operator |
| Gene Greenhalgh | Dozer operator |
| Reece Greenhalgh | Dozer operator |
| Cliff Jurd | Dozer operator |
| Mark Gill | Cook |
| Marion Anderson | Cook |
| Wi Hanara | Mechanic |
| Steve Czulowski | Mechanic |
| Jeff Talbot | Offsider |



Picture # 7- 1: two of the TC Komatsu D65EX dozers

7.0 – LINE PREPARATION, SURVEYING, PERMITTING & ENVIRONMENT

Line Preparation Operations

The line prep crew arrived on December 14th and camped at the old main camp Paranta site 10 km north of the turnoff on the Welcome Lake road. They were inducted that night by Bruce Beer. Operations started on December 15th, 2006. Four dozers were used and two graders. Two of the dozers had 14' blades (D#5 & D#6) and two had 12' blades. Line prep was completed on March 26th, 2007



Picture # 7- 2: Bill Anderson cutting a detour on a difficult dune

During the job there was a serious problem with dozer #5 that caused extended downtime from February 4th to March 12th. TC mechanics were unable to diagnose the cause of an overheating problem. The machine was eventually floated down to Komatsu in Adelaide.

The dunes in this program were large and soft particularly in the north east but generally throughout the program. This caused access problems for the line crew. To counter this one dozer was bought back to go over every 5th line and make side-cuts on the steepest dunes. With one dozer already down and another being employed on re-cuts, the productivity of the 2 remaining dozers dropped dramatically. This in turn created angst for DSS which had a turnkey contract. They actually charged GAOG standby for several days.

7.0 – LINE PREPARATION, SURVEYING, PERMITTING & ENVIRONMENT



Picture # 7- 3: Bill Anderson (TC) chats with Doug Roberts (Beach) and Chris Carty (GAOG)

7.0 – LINE PREPARATION, SURVEYING, PERMITTING & ENVIRONMENT**Table 1: Line Preparation Production on the 2007 Spinel 3D**

| | |
|------------------------------------|---|
| Start date | December 15 th , 2006 |
| End Date | March 26 th , 2007 |
| Christmas break | December 20 th to January 5 th , 2007 |
| Total Work Days = | 85 |
| Total kms Cut = | 3124.00 |
| Average Kms/Day = | 36.75 |
| Total Full Rate Chargeable Hours = | 3030.5 |
| Average Km/Charge Hr = | 1.03 |

The relatively low production rate of 1.03 km/charge hr is due to the big dunes and the fact that one dozer spent several days recutting lines.

Surveying

The Dynamic Satellite Surveys Personnel and equipment list is given in Table # 7-3 and # 7-4 below:

Table # 7- 3: Dynamic Satellite Surveys Personnel List for the 2007 Spinel Seismic Survey

| Name | Position |
|-----------------|-------------------|
| Denis Williams | Survey Supervisor |
| Dean Haussman | Head surveyor |
| Ben Allsopp | Head surveyor |
| Brendan Irwin | Surveyor |
| Trent Moller | Surveyor |
| John Dilger | Surveyor |
| Rob Meijers | Surveyor |
| Steve Hewitson | Surveyor |
| Dave Nielson | Head surveyor |
| Hamish McKenzie | Surveyor |

A maximum of 4 people were on the crew at any one time, but mostly 3 and sometimes 2. The above list shows that there was a high turnover of surveyors, some of whom quit and some moved to other DSS jobs.

7.0 – LINE PREPARATION, SURVEYING, PERMITTING & ENVIRONMENT

Equipment provided by DSS and used on this project:

| | Description | Qty |
|----------------------|--|----------|
| Vehicles | Toyota Landcruiser Trayback - DSS | 4 |
| | | |
| GPS receivers | NovAtel RT2 OEM-G2c/w VHF Telemetry | 4 |
| | NovAtel RT2 OEM-G3 c/w VHF Telemetry | 1 |
| | | |
| Computers | Dell Inspiron 5150 | 2 |
| | Fujitsu Tablets | 4 |
| | Ipaq Field Computers | 2 |
| | | |
| Software | GravNav / GravNet GPS post-processing - Waypoint Consultancy | Ver 7.60 |
| | Nav05 field software - DSS | Ver 3.82 |
| | MIB for Windows - DSS | Ver 6.31 |
| | TransIt - DSS | Ver 5.3 |
| | MapInfo Professional | Ver 8.5 |
| | | |
| Printers | Canon i6500 | 1 |
| | | |
| REM | Rapid Elevation Meter | 1 |
| | | |
| Miscellaneous | Kodak Digital camera | 1 |
| | Accommodation and office caravans | 2 |
| | Dual axle trailer | 1 |
| | Necessary standard surveying equipment | |
| | Sundry office and transport equipment | |
| | Field and Office Consumables | |

7.0 – LINE PREPARATION, SURVEYING, PERMITTING & ENVIRONMENT

The surveying contract was given to Dynamic Satellite Surveys. Ben Allsopp was the head surveyor for the first half of the job. He was replaced by Dave Nielson and then Dean Haussman to finish. The Dynamic Satellite Surveys philosophy is that only qualified surveyors are employed to do the work.

The following facts summarize surveying on the Spinel 3D:

- There were two survey/chaining crews consisting of 1 surveyor and 1 Toyota tray-back utility fitted with Novatel RT2 OEM –G2 c/w dual frequency VHF telemetry satellite receivers;
- Base stations located by static observation were used to provide real time differential corrections to roving receivers;
- Raw data was acquired on the WGS84 datum and converted to the GDA94 datum;
- Final coordinates were presented in MGA94 (Map Grid of Australia) using the UTM Zone 54 projection with 141⁰ E central meridian;
- Receiver lines were pegged at 40m intervals with blue pin flags and painted wooden numbered pegs every 5th station.
- Source lines were pegged at 40m VP intervals with pink pin flags and painted wooden numbered pegs every 2nd VP;
- Source lines were allowed to follow swales to avoid side cuts and use receiver line cuts to cross dunes;
- Annotated wooden pegs were used to flag detours where there breaks in source lines;
- The survey datum was taken from an old DSS Permanent Marker (PM) on the Paranta 3D. Ties with other PMs throughout the survey were made to maintain integrity;
- WAC (Work Area Clearance) information was provided to DSS who in turn installed it in the line coordinates loaded into each dozer gps;
- Acceptable errors for all surveyed points were +/- 1m inline. However, survey accuracy was generally better than +/- 0.1m in horizontal and vertical but could be as low as +/- 0.02m;
- Receiver line offsets were allowed to be as much as 75m off programmed position if it meant choosing a lower point to cross a dune. However the restriction was that the distance between stations could not exceed 50m due restrictions in cable takeout intervals of 55m;
- DSS surveyors placed PMs at 10 EMP (Environmental Monitoring Point) locations near roads throughout the program;
- All final data was presented in MGA94 datum in SEGP1 and UKOOA format. All elevations were based on the Australian Height datum (AHD71);
- Offsets were made around all underground gas pipelines such that no VP was closer than 50m from any line;
- Maps including cultural features such as roads and fences and gates were produced on A3 paper and given to the recording crew at regular intervals; Fig. # 7-1 incorporates most of those features.

7.0 – LINE PREPARATION, SURVEYING, PERMITTING & ENVIRONMENT

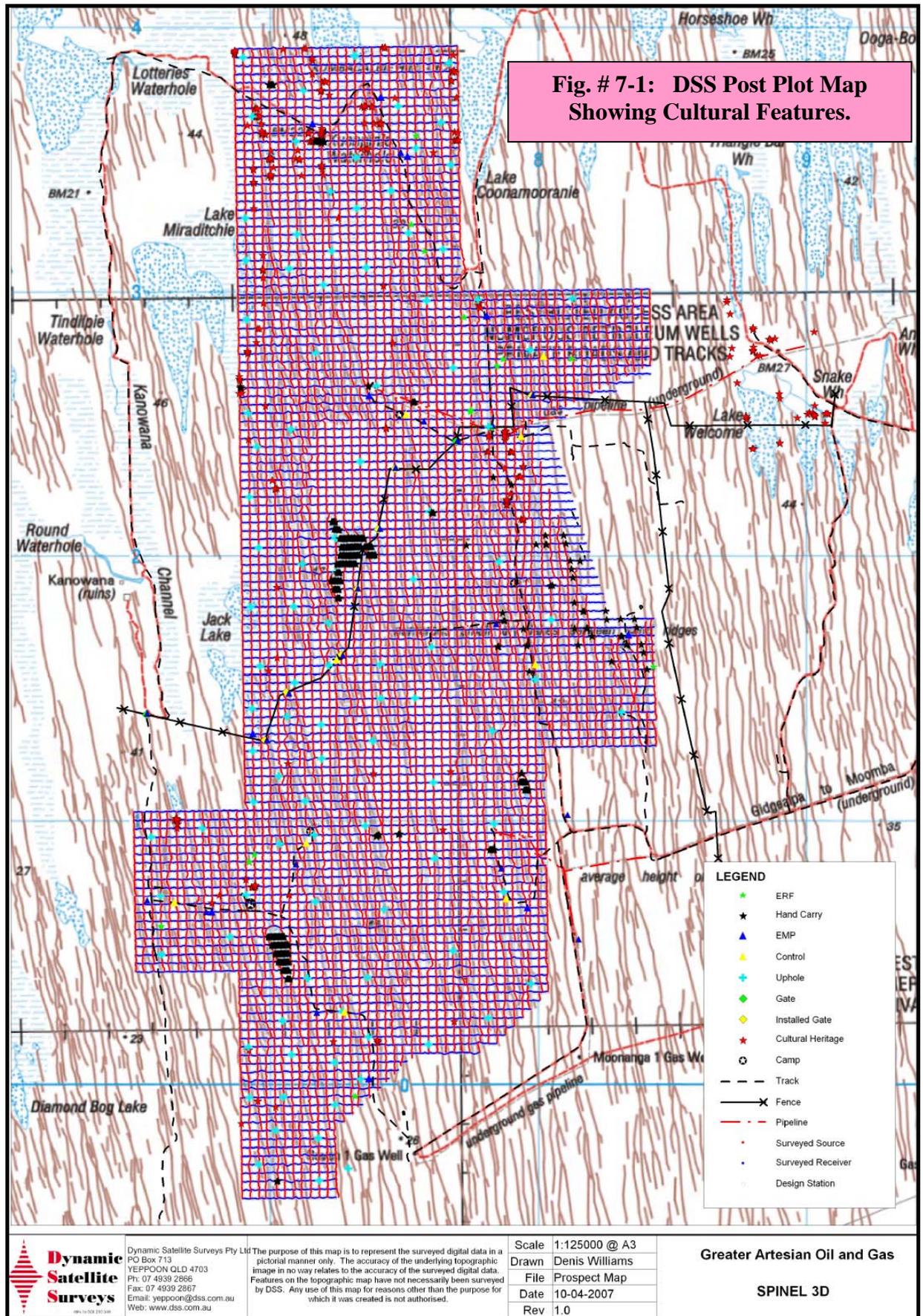
Summary

DSS had to battle some big dunes, salt lakes and recalcitrant surveyors but in the end completed the job in a professional manner. They are recommended for future work.



Picture # 7- 4: DSS Head survey Ben Allsopp in a sticky position in the centre of the salt lake in the middle of the program (life was not meant to be this hard!).

7.0 – LINE PREPARATION, SURVEYING, PERMITTING & ENVIRONMENT



7.0 – LINE PREPARATION, SURVEYING, PERMITTING & ENVIRONMENT

Permitting

The 2007 Spinel Seismic survey was conducted on two pastoral properties, Clifton Hills, managed by Travis and Teresa Gilby and Mungeranie, managed by Luke and Nina Betts. Both parties were notified before the survey by letter and by phone when the crew arrived. Luke and Nina Betts were away from Mungeranie after a family tragedy for an extended period. During this time all contact was made through Graham Betts, the owner of Mungeranie who also owns and lives on Epsilon in Queensland.

The Spinel 3D was divided by the boundary fence between the above properties (see Fig. # 7-1). There were only two gates in this fence; one on the Nulla road and one (a grid) at Welcome Lake. Originally it was proposed to place 7 proper cyclone gates in the bound fence at 2 km intervals. These were seen as preferable to drop gates, particularly in view of the serious accident at a drop gate on the previous Terrex job. However, both Graham Betts and Travis Gilby objected to so many gates in a boundary fence so it was decided to use drop gates again. But this time the drop gates were not installed by the surveyors. Instead a professional fencer, Scott Travis, was bought in. He installed 7 innovative drop gates (see recording section). These were removed after the job.

Graham Betts allowed the crew to use water from the Jack Lake flowing bore. This is good quality water that is above the usual standard for showering and laundry.

Environment

A separate environmental report has been written and submitted. It contains details of GAS audits, EMPs and ERFs.

The terrain in the Spinel 3D consisted of dunefields, floodplains, claypans and salt lakes. The dunes are some of the largest in the Cooper Basin.

Since the source lines were north south and almost parallel with the dunes, a special procedure was adopted to minimise the impact on dunes. To avoid long, ugly and time consuming side-cuts, Exploration Manager (now technical Director) Chris Carty allowed that source lines should follow the swales between receiver lines then use the receiver line to cross the dune where necessary. There was no particular offset increment for the source lines; they simply meandered where the terrain dictated. Accurate surveying will assign each ray path to the correct sub-surface bin. This will result in minor variations in fold but not enough to affect resolution with 35 fold to play with. This procedure worked very well and was popular with the dozer operators.

7.0 – LINE PREPARATION, SURVEYING, PERMITTING & ENVIRONMENT

The operators were instructed to weave both source and receiver lines. As stated above, source lines went wherever the terrain dictated. Receiver lines were allowed to be up to 75m off the programmed position if it would mean cutting a dune at a lower point but, with the proviso that no station interval was to be greater than 50m to fit in with the Terrex Sercel 428 cable takeout interval of 55m.

The dozer operators are usually instructed to make straight dune cuts rather than side cuts. The reasons for this are:

- Side cuts often blow in on the dune side, forcing vehicle to the outer edge and risking slippage or rolling down the dune;
- Side cuts usually result in turns at the top or bottom of the dune; these turns are often difficult to make for heavy vehicles;
- Side cuts take the line off program and can lead to either long station intervals or hand carry sections for the juggies;

However, the dunes were so steep in places, particularly on the eastern faces, that side cuts were the only way that vibrators (without sand tyres!) were going to climb them. For this reason we had to bring one dozer back over every 5th receiver line and install side-cuts where necessary.

Summary

Despite the challenges of the terrain, Terrex Contracting did a creditable job on the Spinel 3D.

7.0 – LINE PREPARATION, SURVEYING, PERMITTING & ENVIRONMENT



Picture # 7- 5: an example of a side cut



Picture # 7- 6: an example of weaving on line 2652.

8.0 – SAFETY

Introduction

The HSE officers on the Terrex crew were Leeton McHugh, Jonathon Hynes, Sarah Anderson and Geoff Oswell.

The basic tenets of the HSE policy were:

- An induction meeting prior to the start of operations at which potential hazards were identified and discussed. Inductions by Terrex and GAOG for all new crew members;
- Producing a site-specific safety plan including an Emergency Response Plan detailing the procedure to adopt in case of emergency;
- Daily toolbox meetings: these were held before departure in the mornings. They provided a forum for any safety or operational issues to be aired. These meetings were paid for by GAOG at the standby rate for 0.3 hrs/day;
- Weekly safety meetings: these were held on Sunday mornings and were more focused on purely safety issues. The HSE officer would review the week's safety performance and often include a first aid demonstration. The Crew Manager, Bird-dog and section heads added their views on crew safety performance and then comments from the various departments on the crew were invited.
- Regular drills for crewmembers.

All vehicles were equipped with first aid kits and fire extinguishers. About 30% of the crew were trained first aiders. Some of the safety related procedures on the crew were:

- All vehicles were fitted with dune poles and warning flags;
- All vehicles had headlights on at all times when driving;
- Journey management procedures were in place for all vehicles travelling outside the operational area;
- Supply truck drivers were given a mobile satellite telephone for communications;
- All crewmembers were required to wear long sleeve shirts and hats;
- All crewmembers were required to wear ankle-supporting lace-up boots;
- All line vehicles carried large containers of water and regular camp water runs were made when shortages were reported;
- All electrical cables in camp were buried to avoid tripping;
- Spotlights were placed around camp to illuminate the major traffic areas;

The Terrex QHSE end of contract report and safety meeting minutes were included in the Terrex report so will not be duplicated here. There were no LTI's on the job but there were several reportable incidents:

- 1) On March 30th juggy Cody Brannelly hit his knee on the edge of a side step on a Toyota and grazed it. He kept working and 2 days later was knee deep in the mud of a salt lake. His graze began to give him pain so he was transported back to camp.

8.0 – SAFETY

- 2) On March 23rd, 2007 Timothy Hill was throwing cable off the back of a cable truck. He raised the safety cage bar and held on to the corner as he jumped off the truck. The bar came down and cut his hand deeply;
- 3) At 2310 on March 7th, Ken Mathews returned from the showers wearing thongs and stood on a small snake. He called for assistance to remove the snake from camp then 15 minutes later realised he may have been bitten. He was bandaged, taken to Moomba and taken to Broken Hill hospital by the RFDS air ambulance. Fortunately he was cleared and released next day.
- 4) On March 7th, 2007 Chris Phillips was slothing and fell through into a rabbit burrow up to his knee. He kept working for 2 days before the pain hit. He was sent out on the crew change plane for tests.
- 5) On April 2nd, 2007 Dave James received a suspected snakebite in the dark outside camp. He reported it and was rushed to Moomba thence flown to broken Hill. He was cleared the following day.
- 6) On April 4th juggy Tommy Allen fell down the steps to the storeroom and injured his left shoulder.
- 7) On January 31st, 2007, kitchen hand Lee Ann Hunt fell forward on the steps into the kitchen while carrying food. She injured her knee, elbow and lower back. She was sent home on the crew change plane for tests.

Summary

This was a job that had more than its fair share of incidents. The only pleasing thing was that none were too serious and that the Terrex HSE emergency response system worked.

8.0 – SAFETY



Picture # 8 - 1: the Terrex crew at a toolbox meeting on April 13th. All crew members are wearing their newly acquired GAOG beanies presented by Chris Carty (sitting).

9.0 – REMARKS & RECOMMENDATIONS

- 1) The 2007 Spinel 3D was not the largest 3D ever done in the Cooper Basin to date but it was the most intense in terms of fold. The fold was 35 and the surface bin size was 40m x 40m.
- 2) GAOG chose to do the contract on an hourly rate basis. This was a risky business in view of the difficult terrain and the fact that Terrex had insisted on being paid wait on spread time.
- 3) Full credit must be given to the Terrex field crew. They were given a tight target date and completed the job almost exactly on schedule with a minimum of wait on spread time.
- 4) Particular credit must go to the observers, Dave Burger and Mitchell Burton who constantly strove to do multiple swaths to reduce the preponderance of traverse time. Had they not done this and had they not received the enthusiastic support of the line crew, the job would have been over budget.
- 5) The new Sercel 428 recording system proved again that it improves productivity and the ground equipment is lighter and easier than the old 388.
- 6) Data quality was good throughout the prospect.
- 7) Three campsites were used by Terrex Seismic. The intra-prospect moves were achieved without stopping the recording crew. This had one negative effect. The HSE officer and other camp staff were so busy doing multiple trips with camp vehicles that they failed to properly inspect the area surrounding camp # 2. As a consequence there was some wind blown rubbish found later in surrounding bushes.
- 8) Terrex Contracting had three camp sites and Scanlon Drilling had one.
- 9) There were no LTI's as such on this job but a number of incidents. Fortunately there were no serious injuries and the Terrex emergency response procedure worked well.
- 10) The Terrex Contracting line preparation operation went very slowly. This was due to one machine being down for much of the job and another having to recut some lines for several days.
- 11) The procedure for cutting dunes had to be modified to allow side cuts because some of the dunes were too steep for straight cuts. Terrex Contracting is recommended for future work.
- 12) Dynamic Satellite Surveys (DSS) had a number of personnel difficulties with people quitting and leaving bad work in their wake. However the core of experienced DSS personnel including Ben Allsopp and Dean Hausmann steadied the ship and completed the job in a professional way. They are recommended for future work.

9.0 – REMARKS & RECOMMENDATIONS

- 13) Scanlon Drilling arrived late to do their small 103 hole survey. However, they still managed to finish only a day later than the line preparation crew. Drillers Brett Andrew and Russell St Jack are excellent. Despite some personnel shortages they kept up a good rate of progress. They are recommended for future work.
- 14) Velocity Data observer Nathan Jones did all of the logging. He did an excellent job and was helpful to Scanlon Drilling when they had unexpected personnel shortages. VD is recommended for future work.
- 15) On February 19th the crew had a visit from GAOG CEO Ray Shaw, Exploration Manager Chris Carty and Beach's Doug Roberts. Steve Tobin also coordinated a visit at this time.



Picture # 9 - 1: Doug Roberts, Ray Shaw and Chris Carty at the Terrex dogbox

9.0 – REMARKS & RECOMMENDATIONS



Picture # 9 - 2: Chris Doug and Ray at one of Scott Travis' drop gates



Picture # 9 - 3: Doug Roberts and Ray Shaw observe at close hand the foot tracks across one of the salt lakes.

9.0 – REMARKS & RECOMMENDATIONS

- 16) On March 23rd and 24th, Chris Carty arranged a charter flight from Sydney to bring out a group of interested people including:
- a) Peter Hopkins GAOG Chairman
 - b) Robert Pullan GAOG Director
 - c) Ken Grieves Consulting Geophysicist
 - d) Sharif Oussa Managing Director Energy investments Ltd
 - e) John Wardman Macquarie Equities Limited
 - f) Andrew Dimpsey Director, Odin Energy Limited
 - g) Sebastian Fern Martin Place Securities
- 17) The group had a long day on the 23rd visiting the recording crew and drilling crew before travelling to Innamincka. Rain on the 24th curtailed further planned activities.



Picture # 9 - 4: the visiting group at the Innamincka causeway

9.0 – REMARKS & RECOMMENDATIONS



Picture # 9 - 5: the visitors take pictures of Moomba from the viewing station



Picture # 9 - 6: Robert Pullan getting out of a vibrator truck

9.0 – REMARKS & RECOMMENDATIONS



Picture # 9 - 7: the group l-r: Sebastian Fern, Ken Grieves, Peter Hopkins, Andrew Dimpsey, Chris Carty, John Wardman, Robert Pullan, Sharif Oussa, before departure from Innamineka airstrip.

- 18) The interest in and visits made to the crew by GAOG personnel was appreciated by all crewmembers. The small but thoughtful gifts of a cap then later a beanie is the sort of gesture that leaves the crew feeling good about a client.
- 19) Terrex Seismic's Crew Managers for the Spinel Seismic Survey were Mark Kniepp and Jon Turner. Both did an excellent job.
- 20) There were no LTI's on this job.
- 21) In summary, the 2007 Spinel Seismic Survey was completed with excellent production and good data quality. Terrex Seismic is recommended for future work.

Bruce Beer
GAOG Representative

GREAT ARTESIAN OIL & GAS LIMITED'S 2007 SPINEL 3D SEISMIC SURVEY

APPENDIX I

**RECORDING
PRODUCTION**

Recording Production for Terrex Seismic Crew # 402 on the GAOG 2007 Spinel 3D Seismic Survey in PEL 106/91

| Date | Lines, Geometry and Production | | | | | | | | | | | | | Chargeable Hours | | | | | | | | | | Non Chg Hrs | | | | | Total day Hrs | Comments | | | | |
|--------|--------------------------------|--------------|----------|----------------|-------------|-------|------|-------------|------------------|-------------|-------------------|------------|-------|------------------|-------------|-----------|---------------|------------|---------------|--------|----------------|-----------------|---------------|------------------|----------------------------|-----------------|---------------|--------|---------------|----------|----------|--|--|--|
| | Swath# | Rec. Line to | Rec Line | Source Line to | Source Line | VP to | VP | # Traverses | # Production VPs | Overlap VPs | Total VPs per Day | Linear Kms | Skips | Daily Lin Km | Daily Sq Km | Recording | Recorder Move | Swath Move | Traverse Move | Detour | Wait on Spread | Standby Toolbox | Standby Other | Total Charge Hrs | Rest, Troubleshoot & Other | Layout & Pickup | Prospect Move | Travel | | | Downtime | | | |
| 31-Mar | 262 | 2380 | 2452 | 5140 | 5092 | 2413 | 2420 | 7 | 56 | | 568 | 2.24 | 10 | 22.72 | 7.227 | 7.3 | 0.7 | 0.2 | 2.5 | 0.3 | | | 0.3 | | 11.3 | 0.4 | | | 0.9 | 0.1 | 12.7 | | | |
| | 263 | 2388 | 2460 | 5140 | 5092 | 2421 | 2428 | 7 | 56 | | | 2.24 | | | | | | | | | | | | | | | | | | | | | | |
| | 264 | 2396 | 2468 | 5092 | 5228 | 2429 | 2436 | 18 | 144 | | 5.76 | | | | | | | | | | | | | | | | | | | | | | | |
| | 265 | 2404 | 2476 | 5228 | 5092 | 2437 | 2444 | 18 | 144 | | 5.76 | | | | | | | | | | | | | | | | | | | | | | | |
| | 266 | 2412 | 2484 | 5092 | 5172 | 2445 | 2452 | 11 | 88 | | 3.52 | | | | | | | | | | | | | | | | | | | | | | | |
| | 267 | 2420 | 2492 | 5092 | 5164 | 2453 | 2460 | 10 | 80 | | 3.20 | | | | | | | | | | | | | | | | | | | | | | | |
| | TOTALS FOR MARCH | | | | | | | 2046 | 16368 | 2608 | 18976 | 654.72 | 88 | 654.72 | 208.254 | 229.7 | 11.4 | 5.1 | 57.5 | 21.7 | | 9.3 | 12.6 | 347.3 | 9.1 | | | 18.7 | 10.1 | 385.2 | | | | |
| 1-Apr | 266 | 2412 | 2484 | 5180 | 5228 | 2445 | 2452 | 7 | 56 | | 568 | 2.24 | | 22.72 | 7.227 | 7.2 | | | 1.7 | 0.8 | | | 0.3 | | 10.0 | 0.5 | | | 1.0 | 0.9 | 12.4 | | | |
| | 267 | 2420 | 2492 | 5172 | 5228 | 2453 | 2460 | 8 | 64 | | 2.56 | | | | | | | | | | | | | | | | | | | | | | | |
| | 268 | 2428 | 2500 | 5228 | 5092 | 2461 | 2468 | 18 | 144 | | 5.76 | | | | | | | | | | | | | | | | | | | | | | | |
| | 269 | 2436 | 2508 | 5228 | 5092 | 2469 | 2476 | 18 | 144 | | 5.76 | | | | | | | | | | | | | | | | | | | | | | | |
| | 270 | 2444 | 2516 | 5092 | 5164 | 2477 | 2484 | 10 | 80 | | 3.20 | | | | | | | | | | | | | | | | | | | | | | | |
| | 271 | 2452 | 2524 | 5092 | 5164 | 2485 | 2492 | 10 | 80 | | 3.20 | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Apr | 270 | 2444 | 2516 | 5172 | 5228 | 2477 | 2484 | 8 | 64 | 656 | 2.56 | | 26.24 | 8.346 | 8.3 | | 0.1 | 1.6 | 0.7 | | | 0.3 | | 11.0 | 0.2 | | | 0.8 | 0.1 | 12.1 | | | | |
| | 271 | 2452 | 2524 | 5172 | 5228 | 2485 | 2492 | 8 | 64 | | 2.56 | | | | | | | | | | | | | | | | | | | | | | | |
| | 272 | 2460 | 2532 | 5228 | 5092 | 2493 | 2500 | 18 | 144 | | 5.76 | | | | | | | | | | | | | | | | | | | | | | | |
| | 273 | 2468 | 2540 | 5228 | 5092 | 2501 | 2508 | 18 | 144 | | 5.76 | | | | | | | | | | | | | | | | | | | | | | | |
| | 274 | 2476 | 2548 | 5092 | 5204 | 2509 | 2516 | 15 | 120 | | 4.80 | | | | | | | | | | | | | | | | | | | | | | | |
| | 275 | 2484 | 2556 | 5092 | 5204 | 2517 | 2524 | 15 | 120 | | 4.80 | | | | | | | | | | | | | | | | | | | | | | | |
| 3-Apr | 274 | 2476 | 2548 | 5212 | 5228 | 2509 | 2516 | 3 | 24 | 624 | 0.96 | | 24.96 | 7.939 | 8.3 | 0.6 | 0.2 | 1.9 | 0.2 | | | 0.3 | | 11.5 | 0.1 | | | 0.7 | 0.3 | 12.6 | | | | |
| | 275 | 2484 | 2556 | 5212 | 5228 | 2517 | 2524 | 3 | 24 | | 0.96 | | | | | | | | | | | | | | | | | | | | | | | |
| | 276 | 2492 | 2564 | 5228 | 5092 | 2525 | 2532 | 18 | 144 | | 5.76 | | | | | | | | | | | | | | | | | | | | | | | |
| | 277 | 2500 | 2572 | 5228 | 5092 | 2533 | 2540 | 18 | 144 | | 5.76 | | | | | | | | | | | | | | | | | | | | | | | |
| | 278 | 2508 | 2580 | 5092 | 5228 | 2541 | 2548 | 18 | 144 | | 5.76 | | | | | | | | | | | | | | | | | | | | | | | |
| | 279 | 2516 | 2588 | 5092 | 5228 | 2549 | 2556 | 18 | 144 | | 5.76 | | | | | | | | | | | | | | | | | | | | | | | |
| 4-Apr | 280 | 2524 | 2596 | 5228 | 5092 | 2557 | 2564 | 18 | 144 | 640 | 5.76 | | 25.60 | 8.143 | 7.7 | | 0.2 | 2.2 | 0.5 | | | 0.3 | | 10.9 | 0.2 | | | 0.7 | 0.5 | 12.3 | | | | |
| | 281 | 2532 | 2604 | 5228 | 5092 | 2565 | 2572 | 18 | 144 | | 5.76 | | | | | | | | | | | | | | | | | | | | | | | |
| | 282 | 2540 | 2612 | 5092 | 5228 | 2573 | 2580 | 18 | 144 | | 5.76 | | | | | | | | | | | | | | | | | | | | | | | |
| | 283 | 2548 | 2620 | 5092 | 5228 | 2581 | 2588 | 18 | 144 | | 5.76 | | | | | | | | | | | | | | | | | | | | | | | |
| | 284 | 2556 | 2628 | 5228 | 5204 | 2589 | 2596 | 4 | 32 | | 1.28 | | | | | | | | | | | | | | | | | | | | | | | |
| | 285 | 2564 | 2636 | 5228 | 5204 | 2597 | 2604 | 4 | 32 | | 1.28 | | | | | | | | | | | | | | | | | | | | | | | |
| 5-Apr | 284 | 2556 | 2628 | 5196 | 5092 | 2589 | 2596 | 14 | 112 | 656 | 4.48 | | 26.24 | 8.346 | 8.0 | | 0.2 | 2.0 | 1.0 | | | 0.3 | | 11.5 | 0.3 | | | 0.5 | | 12.3 | | | | |

Recording Production for Terrex Seismic Crew # 402 on the GAOG 2007 Spinel 3D Seismic Survey in PEL 106/91

| Date | Lines, Geometry and Production | | | | | | | | | | | | | Chargeable Hours | | | | | | | | Non Chg Hrs | | | | | Total day Hrs | Comments | | | | | | | | | |
|----------------------------|--------------------------------|--------------|----------|----------------|-------------|-------|------|-------------|------------------------------|-------------|-------------------|------------|-------|----------------------------|-------------|-----------|---------------|------------|---------------|--------|----------------|-----------------|---------------|------------------|----------------------------|-----------------|---------------|----------|---------------|------------|----------|------|--|-----|-----|-------|--|
| | Swath# | Rec. Line to | Rec Line | Source Line to | Source Line | VP to | VP | # Traverses | # Production VPs | Overlap VPs | Total VPs per Day | Linear Kms | Skips | Daily Lin Km | Daily Sq Km | Recording | Recorder Move | Swath Move | Traverse Move | Detour | Wait on Spread | Standby Toolbox | Standby Other | Total Charge Hrs | Rest, Troubleshoot & Other | Layout & Pickup | | | Prospect Move | Travel | Downtime | | | | | | |
| 11-Apr | 307 | 2740 | 2812 | 5132 | 5300 | 2773 | 2780 | 22 | 176 | | 752 | 7.04 | | 30.08 | 9.568 | 9.1 | | | 2.0 | 0.2 | | 0.3 | | | 11.6 | 0.1 | | 0.5 | 0.1 | 12.3 | | | | | | | |
| | 308 | 2748 | 2820 | 5132 | 5300 | 2781 | 2788 | 22 | 176 | | | 7.04 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 309 | 2756 | 2828 | 5300 | 5108 | 2789 | 2796 | 25 | 200 | | | 8.00 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 310 | 2764 | 2836 | 5300 | 5108 | 2797 | 2804 | 25 | 200 | | | 8.00 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12-Apr | 309 | 2756 | 2828 | 5100 | 5092 | 2789 | 2796 | 2 | 16 | 672 | 0.64 | | 26.88 | 8.550 | 8.2 | | 0.1 | 1.8 | 0.8 | | 0.3 | | | 11.2 | 0.2 | | 0.5 | 0.2 | 12.1 | | | | | | | | |
| | 310 | 2764 | 2836 | 5100 | 5092 | 2797 | 2804 | 2 | 16 | | 0.64 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 311 | 2772 | 2844 | 5092 | 5300 | 2805 | 2812 | 27 | 216 | | 8.64 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 312 | 2780 | 2852 | 5092 | 5300 | 2813 | 2820 | 27 | 216 | | 8.64 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 313 | 2788 | 2860 | 5300 | 5204 | 2821 | 2828 | 13 | 104 | | 4.16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 314 | 2796 | 2868 | 5300 | 5204 | 2829 | 2836 | 13 | 104 | | 4.16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13-Apr | 313 | 2788 | 2860 | 5196 | 5092 | 2821 | 2828 | 14 | 112 | 720 | 4.48 | | 28.80 | 9.161 | 8.7 | | 0.1 | 2.1 | 0.3 | | 0.3 | | | 11.5 | | | 0.5 | | 12.0 | | | | | | | | |
| | 314 | 2796 | 2868 | 5196 | 5092 | 2829 | 2836 | 14 | 112 | | 4.48 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 315 | 2804 | 2876 | 5092 | 5300 | 2837 | 2844 | 27 | 216 | | 8.64 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 316 | 2812 | 2884 | 5092 | 5300 | 2845 | 2852 | 27 | 216 | | 8.64 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 317 | 2820 | 2892 | 5300 | 5276 | 2853 | 2860 | 4 | 32 | | 1.28 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 318 | 2828 | 2892 | 5300 | 5276 | 2861 | 2868 | 4 | 32 | | 1.28 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14-Apr | 317 | 2820 | 2892 | 5268 | 5092 | 2853 | 2860 | 23 | 184 | 728 | 7.36 | | 29.12 | 9.262 | 8.7 | | 0.1 | 1.8 | | | 0.3 | | | 10.9 | | | 0.5 | 0.4 | 11.8 | | | | | | | | |
| | 318 | 2828 | 2892 | 5268 | 5092 | 2861 | 2868 | 23 | 184 | | 7.36 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 319 | 2836 | 2892 | 5092 | 5204 | 2869 | 2876 | 15 | 120 | | 4.80 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 320 | 2844 | 2892 | 5092 | 5204 | 2877 | 2884 | 15 | 120 | | 4.80 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 321 | 2852 | 2892 | 5092 | 5204 | 2885 | 2892 | 15 | 120 | | 4.80 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15-Apr | 319 | 2836 | 2892 | 5212 | 5300 | 2869 | 2876 | 12 | 96 | 288 | 3.84 | | 11.52 | 3.664 | 3.6 | | | 0.5 | | | 0.3 | | | 4.4 | 0.4 | 5.6 | 0.6 | | 11.0 | END OF JOB | | | | | | | |
| | 320 | 2844 | 2892 | 5212 | 5300 | 2877 | 2884 | 12 | 96 | | 3.84 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 321 | 2852 | 2892 | 5212 | 5300 | 2885 | 2892 | 12 | 96 | | 3.84 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16-Apr | TOTALS for APRIL 2007 | | | | | | | | | | | | | 1203 | 9624 | | 9624 | 384.96 | | 384.96 | 122.448 | 119.0 | 2.0 | 2.0 | 28.5 | 6.0 | | 4.5 | | 162.0 | 3.1 | 16.6 | | 8.1 | 3.5 | 193.3 | |
| TOTALS for PROJECT: | | | | | | | | 4872 | 38976 | 7588 | 46564 | 1559.04 | 88 | 1559.04 | 495.900 | 585.2 | 19.4 | 12.9 | 147.4 | 52.2 | 2.9 | 23.4 | 55.0 | 898.4 | 20.4 | 30.7 | 18.7 | 42.0 | 28.0 | 1038.2 | | | | | | | |
| Total PROGRAM = | | | | | | | | 1559.04 | linear kms | | | | 46564 | Cumulative Total day Hrs = | | | | | | | | | | | 1038.2 | | | | | | | | | | | | |
| Recorded to Date = | | | | | | | | 1559.04 | Total Full Rate Charge Hrs = | | | | | | | | | | | 820.0 | | | | | | | | | | | | | | | | | |

Recording Production for Terrex Seismic Crew # 402 on the GAOG 2007 Spinel 3D Seismic Survey in PEL 106/91

| Date | Lines, Geometry and Production | | | | | | | | | | | Chargeable Hours | | | | | | | | | | Non Chg Hrs | | | Total day Hrs | Comments | | |
|---------------------------------|--------------------------------|---------------|-----------|----------------|-------------|-------|----|-------------|------------------|-------------|--------------------------|------------------|-------|--------------|-------------|-----------|---------------|------------|---------------|--------|----------------|-----------------|---------------|------------------|---------------|----------|----------------------------|-----------------|
| | Swath# | Rec. Line to | Rec. Line | Source Line to | Source Line | VP to | VP | # Traverses | # Production VPs | Overlap VPs | Total VPs per Day | Linear Kms | Skips | Daily Lin Km | Daily Sq Km | Recording | Recorder Move | Swath Move | Traverse Move | Detour | Wait on Spread | Standby Toolbox | Standby Other | Total Charge Hrs | | | Rest, Troubleshoot & Other | Layout & Pickup |
| Remaining = | | | | | | | | | | | Total Standby Rate Hrs = | | | | | | | | | | | | | 78.4 | | | | |
| 1 VP = | | 0.012723214 | | Sq Km | | | | | | | | | | | | check sum | | | 1038.2 | | | | | | | | | |
| 1 Linear Km = | | 0.318080357 | | sq Km | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL sq km to date: | | 495.90 sq.km. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Average Linear Km/Day to date = | | #DIV/0! | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Average Sq Km/Day to Date = | | #DIV/0! | | | | | | | | | | | | | | | | | | | | | | | | | | |

GREAT ARTESIAN OIL & GAS LIMITED'S 2007 SPINEL 3D SEISMIC SURVEY

APPENDIX II

UPHOLE DRILLING PRODUCTION

Production for SCANLON DRILLING Co., on GAOG's 2007 Spinel 3D Uphole Survey

| Date | Prospect | Line Details | | | Drill Hours | | | | | | Consumables | | | | | Comments | | |
|-----------------|-----------|-------------------------|---------|--------|-------------|-------|-----------|--------|--------|------|---------------|-------|-----------------|--------|----------------|----------|--------------------|----------------------------|
| | | Hole Numbers | # Holes | Metres | Work | Stby | Camp Move | Charge | Travel | Down | 43/4" Regular | OTHER | Bio-Vis (drums) | AusGel | Hi-Seal (bags) | | Citric Acid (bags) | |
| Mar07 | Spinel 3D | | | | | | | | | | | | | | | | | |
| 8-Mar | " " | | | | | 6.00 | 4.00 | 10.00 | 0.00 | | | | | | | | | move to Moomba & get water |
| 9-Mar | " " | | | | | 5.00 | 5.50 | 10.50 | | | | | | | | | | complete move |
| 10-Mar | " " | 13,16,18,21,30 | 5 | 182 | 12.00 | | | 12.00 | 0.75 | | | 3 | | | | | | |
| 11-Mar | " " | 28,35,38,49,43,46 | 6 | 198 | 11.50 | 0.75 | | 12.25 | | | 1 | 3 | | | | | | |
| 12-Mar | " " | 50,22,26,23,33,36 | 6 | 204 | 11.25 | | | 11.25 | 1.00 | | 1 | 3 | | | | | | |
| 13-Mar | " " | 31,29,25,27,24,34 | 6 | 216 | 11.75 | | | 11.75 | 1.00 | | 1 | 3 | | | | | | |
| 14-Mar | " " | 32,37,39,41,40,44 | 6 | 178 | 11.00 | | | 11.00 | 1.00 | | | 3 | | | | | | |
| 15-Mar | " " | 42,48,45,54,55,60 | 6 | 216 | 11.75 | | | 11.75 | 1.00 | | 1 | 3 | | | | | | |
| 16-Mar | " " | 66,61,2,1 | 4 | 146 | 10.00 | | | 10.00 | 1.00 | | | 2 | | | | | | |
| 17-Mar | " " | 4,7,9,10,14,3 | 6 | 180 | 11.75 | | | 11.75 | 1.00 | | 1 | 3 | | | | | | |
| 18-Mar | " " | 5,8,6,12,11,15 | 6 | 180 | 11.25 | | | 11.25 | 1.00 | | | 3 | | | | | | |
| 19-Mar | " " | 20,19,17,57,71,76 | 6 | 192 | 12.00 | | | 12.00 | 1.00 | | 1 | 3 | | | | | | |
| 20-Mar | " " | 80,88,86,79,78,75 | 6 | 183 | 11.00 | | | 11.00 | 1.00 | | | 3 | | | | | | |
| 21-Mar | " " | 47,53,51,52,56,59 | 6 | 187 | 11.50 | | | 11.50 | 1.00 | | | 3 | | | | | | |
| 22-Mar | " " | 58,64,67,65,62 | 5 | 138 | 10.00 | | | 10.00 | 1.00 | | 1 | 2 | | | | | | |
| 23-Mar | " " | 63,68,69,72,70,73,74 | 7 | 236 | 12.50 | | | 12.50 | 1.00 | | | 3 | | | | | | |
| 24-Mar | " " | 77 | 1 | 28 | 2.25 | 6.75 | | 9.00 | 1.00 | | | 1 | | | | | | stby due to rain |
| 25-Mar | " " | 84,89,87,82,81,83,85 | 7 | 202 | 11.75 | | | 11.75 | 1.00 | | 1 | 3 | | | | | | |
| 26-Mar | " " | 90,92,91,94,99,97,101,1 | 8 | 226 | 12.00 | | | 12.00 | 1.00 | | | 3 | | | | | | |
| 27-Mar | " " | 102,103,96,93,95,98 | 6 | 180 | 10.00 | | | 10.00 | 1.25 | | 1 | 3 | | | | | | complete uphole survey |
| PROJECT TOTALS: | | | 103 | 3272 | 195.25 | 18.50 | 9.50 | 223.25 | 17.00 | 0.00 | 9 | 0 | 50 | 0 | 0 | 0 | | |

Average Depth of Hole =

31.77

GREAT ARTESIAN OIL & GAS LIMITED'S 2007 SPINEL 3D

APPENDIX III

VELOCITY DATA UPHOLE LOGGING PRODUCTION

Production for Velocity Data on GAOG's 2007 Spinel 3D Uphole Survey

| Date | Area | Hole# | Line | Stn# or Line Intersection | Depth Logged | Wx Depth | Vsw | Total Holes for Day | Hours | | | | | Comments | |
|--------|------|-------|------|---------------------------|--------------|----------|-----|---------------------|----------|---------|-----------|--------|------|----------|-------|
| | | | | | | | | | Work Hrs | Standby | Camp Move | Travel | Down | | Total |
| 15-Mar | " | " | 39 | S5124 | 51242204 | 28 | 8 | 1996 | 6 | 11.50 | | | 1.00 | 12.50 | |
| | | | 41 | S5100 | 51002228 | 28 | 6 | 1972 | | | | | | | |
| | | | 40 | S5164 | 51642220 | 26 | 4 | 1927 | | | | | | | |
| | | | 44 | R2252 | 22525164 | 28 | 4 | 1896 | | | | | | | |
| | | | 42 | S5212 | 52122236 | 40 | 12 | 1753 | | | | | | | |
| | | | 48 | S5220 | 52202276 | 34 | 10 | 1956 | | | | | | | |
| | | | 45 | S5132 | 51322260 | 28 | 12 | 1966 | | | | | | | |
| | | | 54 | S5220 | 52202308 | 40 | 8 | 1966 | | | | | | | |
| 16-Mar | " | " | 55 | S568 | 52682324 | 34 | 12 | 1951 | 4 | 10.00 | | | 1.00 | 11.00 | |
| | | | 60 | S5252 | 52522388 | 40 | 12 | 1965 | | | | | | | |
| | | | 66 | S5268 | 52682452 | 40 | 20 | 2042 | | | | | | | |
| | | | 61 | R2404 | 24045332 | 26 | 4 | 1750 | | | | | | | |
| 17-Mar | " | " | 2 | S5164 | | 46 | 24 | 1761 | 6 | 11.00 | | | 1.00 | 12.00 | |
| | | | 1 | S5156 | 51561820 | 34 | 12 | 1954 | | | | | | | |
| | | | 4 | S5156 | 51561860 | 34 | 12 | 1945 | | | | | | | |
| | | | 7 | S5172 | 51721892 | 28 | 10 | 1975 | | | | | | | |
| | | | 9 | S5196 | 51961916 | 28 | 6 | 2209 | | | | | | | |
| 18-Mar | " | " | 10 | S5172 | 51721932 | 28 | 6 | 1924 | 6 | 10.75 | | | 1.00 | 11.75 | |
| | | | 14 | S5204 | 52041956 | 28 | 6 | 1943 | | | | | | | |
| | | | 3 | S5100 | 51001836 | 34 | 10 | 1961 | | | | | | | |
| | | | 5 | S5116 | 51161868 | 28 | 10 | 1973 | | | | | | | |
| | | | 8 | S5124 | 51241900 | 34 | 10 | 1954 | | | | | | | |
| | | | 6 | S5092 | 50921900 | 34 | 14 | 1869 | | | | | | | |
| | | | 12 | S5092 | 50921948 | 28 | 8 | 1938 | | | | | | | |
| 19-Mar | " | " | 11 | S5132 | 51321940 | 28 | 8 | 1875 | 6 | 11.00 | | | 1.00 | 12.00 | |
| | | | 15 | S5124 | 51241972 | 28 | 6 | 1929 | | | | | | | |
| | | | 20 | S5204 | 52042012 | 34 | 14 | 1893 | | | | | | | |
| | | | 19 | S5148 | 51482012 | 28 | 8 | 1946 | | | | | | | |
| | | | 17 | S5180 | 51801980 | 34 | 12 | 2058 | | | | | | | |

Production for Velocity Data on GAOG's 2007 Spinel 3D Uphole Survey

| Date | Area | Hole# | Line | Stn# or Line Intersection | Depth Logged | Wx Depth | Vsw | Total Holes for Day | Hours | | | | | Comments | | |
|--------|------|-------|-------|---------------------------|--------------|----------|------|---------------------|----------|---------|-----------|--------|------|----------|-------|------------------|
| | | | | | | | | | Work Hrs | Standby | Camp Move | Travel | Down | | Total | |
| | | 57 | R2348 | 23485380 | 34 | 16 | 1940 | | | | | | | | | |
| | | 71 | S5324 | 53242532 | 28 | 6 | 1771 | | | | | | | | | |
| 20-Mar | " " | 76 | R2604 | 26045365 | 34 | 18 | 1973 | | | | | | | | | |
| | | 80 | R2652 | 26525148 | 32 | 12 | 1801 | 6 | 10.25 | | | 1.00 | | | 11.25 | |
| | | 88 | S5252 | 52522716 | 34 | 8 | 1969 | | | | | | | | | |
| | | 86 | S5284 | 52842700 | 34 | 10 | 1958 | | | | | | | | | |
| | | 79 | R2652 | 26525317 | 28 | 8 | 1941 | | | | | | | | | |
| | | 78 | S5268 | 52682652 | 28 | 6 | 1753 | | | | | | | | | |
| | | 75 | R2588 | 25885292 | 28 | 6 | 1755 | | | | | | | | | |
| 21-Mar | | 47 | R2268 | 22685101 | 28 | 2 | 2103 | 6 | | | | | | | | |
| | | 53 | R2308 | 23085108 | 28 | 6 | 2239 | | | | | | | | | |
| | | 51 | S5140 | 51402292 | 28 | 6 | 1915 | | | | | | | | | |
| | | 52 | R2308 | 23085171 | 34 | 14 | 1966 | | | | | | | | | |
| | | 56 | S5172 | 51722347 | 40 | 18 | 1956 | | | | | | | | | |
| 22-Mar | " " | 59 | R2364 | 23645141 | 28 | 8 | 1948 | | | | | | | | | |
| | | 58 | R2364 | 23645100 | 28 | 2 | 1865 | 5 | 10.00 | | | 1.00 | | | 11.00 | |
| | | 64 | S5108 | 51082420 | 26 | 4 | 1941 | | | | | | | | | |
| | | 67 | S5100 | 51002468 | 28 | 4 | 1896 | | | | | | | | | |
| | | 65 | S5180 | 51802428 | 28 | 0-2 | 1996 | | | | | | | | | |
| | | 62 | S5180 | 51802396 | 28 | 0-2 | 1999 | | | | | | | | | |
| 23-Mar | " " | 63 | S5148 | 51482404 | 40 | 18 | 2004 | 7 | 12.00 | | | 1.00 | | | 13.00 | |
| | | 68 | S5204 | 52042500 | 28 | 8 | 1950 | | | | | | | | | |
| | | 69 | S5108 | 51082516 | 28 | 10 | 2002 | | | | | | | | | |
| | | 72 | S5100 | 51002548 | 32 | 8 | 1937 | | | | | | | | | |
| | | 70 | R2532 | 25325141 | 46 | 26 | 1853 | | | | | | | | | |
| | | 73 | S5220 | 52202572 | 28 | 4 | 1821 | | | | | | | | | |
| | | 74 | R2604 | 26045164 | 34 | 16 | 2003 | | | | | | | | | |
| 24-Mar | " " | 77 | S5100 | 51002636 | 28 | 0-2 | 2181 | 1 | 2.00 | 6.75 | | 1.25 | | | 10.00 | stby due to rain |
| 25-Mar | | 84 | R2692 | 26925100 | 28 | 0-2 | 1996 | 7 | 10.75 | | | 1.00 | | | 11.75 | |

Production for Velocity Data on GAOG's 2007 Spinel 3D Uphole Survey

| Date | Area | Hole# | Line | Stn# or Line Intersection | Depth Logged | Wx Depth | Vsw | Total Holes for Day | Hours | | | | | Comments | | |
|------------------------|------|-------|----------|---------------------------|--------------|------------|------|---------------------|---------------|--------------|-------------|--------------|-------------|---------------|-------|--|
| | | | | | | | | | Work Hrs | Standby | Camp Move | Travel | Down | | Total | |
| 26-Mar | | 89 | S5100 | 51002732 | 28 | 4 | 1966 | | | | | | | | | |
| | | 87 | S5148 | 51482716 | 28 | 10 | 1964 | | | | | | | | | |
| | | 82 | S5140 | 51402684 | 28 | 4 | 1957 | | | | | | | | | |
| | | 81 | R2668 | 26685172 | 28 | 4 | 1926 | | | | | | | | | |
| | | 83 | S5212 | 52122684 | 28 | 4 | 1936 | | | | | | | | | |
| | | 85 | R2700 | 27005180 | 34 | 12 | 1773 | | | | | | | | | |
| | | 90 | S5204 | 52042740 | 26 | 4 | 1915 | 8 | 11.00 | | | 1.00 | | 12.00 | | |
| | | 92 | S5236 | 52362756 | 34 | 14 | 2275 | | | | | | | | | |
| | | 91 | S5180 | 51802756 | 28 | 8 | 2057 | | | | | | | | | |
| | | 94 | S5204 | 52042788 | 26 | 6 | 1915 | | | | | | | | | |
| 27-Mar | | 99 | S5148 | 51482804 | 28 | 2 | 1894 | | | | | | | | | |
| | | 97 | S5108 | 51082828 | 28 | 4 | 1795 | | | | | | | | | |
| | | 101 | S5100 | 51002884 | 28 | 6 | 2140 | | | | | | | | | |
| | | 100 | S5156 | 51562852 | 28 | 10 | 1760 | | | | | | | | | |
| | | 102 | S5204 | 52042884 | 28 | 4 | 1919 | 6 | 10.00 | | 1.25 | | 11.25 | | | |
| | | 103 | S5292 | 52922876 | 28 | 8 | 2659 | | | | | | | | | |
| | | 96 | S5284 | 52842820 | 40 | 14 | 1968 | | | | | | | | | |
| | | 93 | S5292 | 52922780 | 28 | 6 | 1924 | | | | | | | | | |
| | 95 | S5260 | 52602796 | 28 | 8 | 1962 | | | | | | | | | | |
| | 98 | S5244 | 52442836 | 28 | 6 | 1942 | | | | | | | | | | |
| PROJECT TOTALS: | | | | | 3272 | 952 | | 103 | 177.75 | 17.75 | 9.50 | 17.00 | 0.00 | 222.00 | | |

Average Depth of Hole =
 Average Depth of Weathering =

GREAT ARTESIAN OIL & GAS LIMITED'S 2007 SPINEL 3D SEISMIC SURVEY

APPENDIX IV

SHIFTED UPHOLE FILE

Uphole Location Files for the GAOG 2007 Spinel 3D Uphole Drilling Survey

| DSS Surveys Pre-Drilling Uphole Locations | | | | | Post Drilling Information | | | | | |
|---|----------|-----------|------------|-------|---------------------------|----------|-----------|---------------------|--------------|---------------|
| Uphole | Station | Easting | Northing | Elev | Drilled? | Date | Shifted ? | New Location/Reason | New eastings | New Northings |
| UHGA07-01 | 51561820 | 371762.68 | 6896342.26 | 22.68 | yes | 16/03/07 | no | | | |
| UHGA07-02 | | 372869.77 | 6896793.72 | 38.85 | yes | 16/03/07 | no | | | |
| UHGA07-03 | 51001836 | 369514.75 | 6896952.14 | 24.76 | yes | 17/03/07 | no | | | |
| UHGA07-04 | 51561860 | 371752.9 | 6897954.99 | 24.66 | yes | 17/03/07 | no | | | |
| UHGA07-05 | 51161868 | 370173.29 | 6898231.83 | 23.64 | yes | 18/03/07 | no | | | |
| UHGA07-06 | 50921900 | 369181.22 | 6899491.48 | 28.57 | yes | 18/03/07 | no | | | |
| UHGA07-07 | 51721892 | 372354.73 | 6899217.02 | 23.64 | yes | 17/03/07 | no | | | |
| UHGA07-08 | 51241900 | 370447.48 | 6899535.36 | 24.94 | yes | 18/03/07 | no | | | |
| UHGA07-09 | 51961916 | 373242.04 | 6900209.6 | 22.38 | yes | 17/03/07 | no | | | |
| UHGA07-10 | 51721932 | 372345.95 | 6900827.14 | 21.53 | yes | 17/03/07 | no | | | |
| UHGA07-11 | 51321940 | 370751.98 | 6901124.86 | 23.04 | yes | 18/03/07 | no | | | |
| UHGA07-12 | 50921948 | 369145.68 | 6901421.59 | 22.62 | yes | 18/03/07 | no | | | |
| UHGA07-13 | 19485260 | 375871.07 | 6901513.6 | 20.54 | yes | 10/03/07 | no | | | |
| UHGA07-14 | 52041956 | 373616.25 | 6901793.32 | 21.6 | yes | 17/03/07 | no | | | |
| UHGA07-15 | 51241972 | 370406.8 | 6902411.79 | 21.45 | yes | 18/03/07 | no | | | |
| UHGA07-16 | 53161972 | 378091.96 | 6902505.68 | 28.36 | yes | 10/03/07 | no | | | |
| UHGA07-17 | 51801980 | 372653.53 | 6902743.71 | 30.41 | yes | 19/03/07 | no | | | |
| UHGA07-18 | 53562004 | 379587.18 | 6903811.13 | 27.06 | yes | 10/03/07 | no | | | |
| UHGA07-19 | 51482012 | 371373.31 | 6904015.06 | 23.48 | yes | 19/03/07 | no | | | |
| UHGA07-20 | 52042012 | 373581.56 | 6904052.05 | 30.65 | yes | 19/03/07 | no | | | |
| UHGA07-21 | 52842036 | 376785.15 | 6905049.74 | 34.7 | yes | 10/03/07 | no | | | |
| UHGA07-22 | 50122037 | 365901.87 | 6904920.99 | 31.21 | yes | 12/03/07 | no | | | |
| UHGA07-23 | 50042148 | 365478.88 | 6909374.93 | 21.03 | yes | 12/03/07 | no | | | |
| UHGA07-24 | 50762052 | 368436.06 | 6905570.37 | 25.59 | yes | 13/03/07 | no | | | |
| UHGA07-25 | 52202076 | 374032.58 | 6906612.47 | 26.06 | yes | 13/03/07 | no | | | |
| UHGA07-26 | 50122092 | 365901.63 | 6907129.86 | 21.47 | yes | 12/03/07 | no | | | |
| UHGA07-27 | 50922092 | 369032.88 | 6907169.99 | 20.45 | yes | 13/03/07 | no | | | |
| UHGA07-28 | 53322092 | 378636.65 | 6907322.87 | 36.38 | yes | 11/03/07 | no | | | |
| UHGA07-29 | 51562084 | 371642.6 | 6906900.85 | 44.87 | yes | 13/03/07 | no | | | |
| UHGA07-30 | 52682124 | 376075.85 | 6908542.29 | 23.38 | yes | 10/03/07 | no | | | |

Uphole Location Files for the GAOG 2007 Spinel 3D Uphole Drilling Survey

| DSS Surveys Pre-Drilling Uphole Locations | | | | | Post Drilling Information | | | | | |
|---|----------|-----------|------------|-------|---------------------------|----------|-----------|---------------------|--------------|---------------|
| Uphole | Station | Easting | Northing | Elev | Drilled? | Date | Shifted ? | New Location/Reason | New eastings | New Northings |
| UHGA07-31 | 51242140 | 370316.7 | 6909114.7 | 28.4 | yes | 13/03/07 | no | | | |
| UHGA07-32 | 51562148 | 371581.91 | 6909453.47 | 27.05 | yes | 14/03/07 | no | | | |
| UHGA07-33 | 50522156 | 367515.64 | 6909718.22 | 28.35 | yes | 12/03/07 | no | | | |
| UHGA07-34 | 52042156 | 373500.63 | 6909788.9 | 26.95 | yes | 13/03/07 | no | | | |
| UHGA07-35 | 53242156 | 378316.13 | 6909876.14 | 28.51 | yes | 11/03/07 | no | | | |
| UHGA07-36 | 51002180 | 369410.66 | 6910711.69 | 21 | yes | 12/03/07 | no | | | |
| UHGA07-37 | 51482180 | 371259.85 | 6910731.9 | 28.85 | yes | 14/03/07 | no | | | |
| UHGA07-38 | 52682196 | 376058.99 | 6911451.6 | 21.21 | yes | 11/03/07 | no | | | |
| UHGA07-39 | 51242204 | 370451.67 | 6911674.1 | 23.38 | yes | 14/03/07 | no | | | |
| UHGA07-40 | 51642220 | 371861.94 | 6912340.95 | 20.07 | yes | 14/03/07 | no | | | |
| UHGA07-41 | 51002228 | 369288.24 | 6912621.59 | 21.43 | yes | 14/03/07 | no | | | |
| UHGA07-42 | 52122236 | 373747.77 | 6913013.97 | 25.65 | yes | 15/03/07 | no | | | |
| UHGA07-43 | 22445326 | 378347.28 | 6913390.12 | 21.99 | yes | 11/03/07 | no | | | |
| UHGA07-44 | 22525164 | 371855 | 6913619.76 | 21.28 | yes | 14/03/07 | no | | | |
| UHGA07-45 | 51322260 | 370477.07 | 6913929.96 | 20.52 | yes | 15/03/07 | no | | | |
| UHGA07-46 | 22605443 | 383003.37 | 6914112.36 | 27.58 | yes | 11/03/07 | no | | | |
| UHGA07-47 | 22685101 | 369308.56 | 6914212.26 | 17.26 | yes | 21/03/07 | no | | | |
| UHGA07-48 | 52202276 | 374083.27 | 6914604.91 | 26.86 | yes | 15/03/07 | no | | | |
| UHGA07-49 | 52522276 | 375372.76 | 6914639.74 | 23.45 | yes | 11/03/07 | no | | | |
| UHGA07-50 | 22925364 | 379829.45 | 6915330.34 | 33.5 | yes | 12/03/07 | no | | | |
| UHGA07-51 | 51402292 | 370868.42 | 6915206.31 | 22.83 | yes | 21/03/07 | no | | | |
| UHGA07-52 | 23085172 | 372117.17 | 6915881.26 | 29.68 | yes | 21/03/07 | no | | | |
| UHGA07-53 | 23085108 | 369581.06 | 6915838.09 | 20.49 | yes | 21/03/07 | no | | | |
| UHGA07-54 | 52202308 | 374142.39 | 6915891.97 | 23.89 | yes | 15/03/07 | no | | | |
| UHGA07-55 | 52682324 | 375988.26 | 6916561.08 | 25.35 | yes | 15/03/07 | no | | | |
| UHGA07-56 | 51242348 | 372036.07 | 6917441.51 | 33.92 | yes | 21/03/07 | no | | | |
| UHGA07-57 | 23485380 | 380441.29 | 6917566.94 | 33.06 | yes | 19/03/07 | no | | | |
| UHGA07-58 | 23645100 | 369225.47 | 6918056.92 | 17.76 | yes | 22/03/07 | no | | | |
| UHGA07-59 | 23645141 | 370857.64 | 6918079.12 | 24.1 | yes | 21/03/07 | no | | | |
| UHGA07-60 | 52522388 | 375310.7 | 6919110.07 | 29.43 | yes | 15/03/07 | no | | | |

Uphole Location Files for the GAOG 2007 Spinel 3D Uphole Drilling Survey

| DSS Surveys Pre-Drilling Uphole Locations | | | | | Post Drilling Information | | | | | |
|---|----------|-----------|------------|-------|---------------------------|----------|-----------|---------------------|--------------|---------------|
| Uphole | Station | Easting | Northing | Elev | Drilled? | Date | Shifted ? | New Location/Reason | New eastings | New Northings |
| UHGA07-61 | 24045332 | 378497.51 | 6919808.99 | 22.49 | yes | 16/03/07 | no | | | |
| UHGA07-62 | 51802396 | 372375.48 | 6919380.63 | 17.02 | yes | 22/03/07 | no | | | |
| UHGA07-63 | 51482404 | 371054.23 | 6919703.54 | 34.31 | yes | 23/03/07 | no | | | |
| UHGA07-64 | 51082420 | 369521.05 | 6920323.99 | 21.18 | yes | 22/03/07 | no | | | |
| UHGA07-65 | 51802428 | 372396.46 | 6920676.92 | 18.19 | yes | 22/03/07 | no | | | |
| UHGA07-66 | 52682452 | 375902.26 | 6921689.69 | 37.15 | yes | 16/03/07 | no | | | |
| UHGA07-67 | 51002468 | 369184.87 | 6922227.05 | 21.08 | yes | 22/03/07 | no | | | |
| UHGA07-68 | 52042500 | 373325.21 | 6923566.41 | 22.97 | yes | 23/03/07 | no | | | |
| UHGA07-69 | 51082516 | 369602.66 | 6924167.14 | 23.49 | yes | 23/03/07 | no | | | |
| UHGA07-70 | 25325141 | 370771.73 | 6924830.38 | 41.8 | yes | 23/03/07 | no | | | |
| UHGA07-71 | 53242532 | 378235.4 | 6924925.05 | 22.94 | yes | 19/03/07 | no | | | |
| UHGA07-72 | 51002548 | 369126.84 | 6925436.29 | 25.63 | yes | 23/03/07 | no | | | |
| UHGA07-73 | 52202572 | 373921.86 | 6926440.78 | 22.31 | yes | 23/03/07 | no | | | |
| UHGA07-74 | 26045164 | 371641.18 | 6927688.28 | 32.12 | yes | 23/03/07 | no | | | |
| UHGA07-75 | 25885292 | 376793.4 | 6927133.9 | 22.65 | yes | 20/03/07 | no | | | |
| UHGA07-76 | 26045365 | 379677.32 | 6927816.17 | 31.28 | yes | 19/03/07 | no | | | |
| UHGA07-77 | 51002636 | 369077.27 | 6928952.9 | 20.71 | yes | 24/03/07 | no | | | |
| UHGA07-78 | 52682652 | 375785.51 | 6929683.84 | 23.32 | yes | 20/03/07 | no | | | |
| UHGA07-79 | 26525317 | 377731.48 | 6929708.22 | 24.48 | yes | 20/03/07 | no | | | |
| UHGA07-80 | 26525404 | 381264.56 | 6929752.29 | 25.24 | yes | 20/03/07 | no | | | |
| UHGA07-81 | 26685172 | 371951.41 | 6930263.48 | 21.46 | yes | 25/03/07 | no | | | |
| UHGA07-82 | 51402684 | 370649 | 6930897.38 | 21.53 | yes | 25/03/07 | no | | | |
| UHGA07-83 | 52122684 | 373525.18 | 6930919.93 | 21.75 | yes | 25/03/07 | no | | | |
| UHGA07-84 | 26925100 | 369061.28 | 6931177.69 | 20.61 | yes | 25/03/07 | no | | | |
| UHGA07-85 | 27005180 | 372243.22 | 6931562.43 | 33.16 | yes | 25/03/07 | no | | | |
| UHGA07-86 | 52842700 | 376400.13 | 6931622.49 | 27.84 | yes | 20/03/07 | no | | | |
| UHGA07-87 | 51482716 | 370960.59 | 6932164.6 | 26.96 | yes | 25/03/07 | no | | | |
| UHGA07-88 | 52522716 | 375098.57 | 6932237.86 | 24.59 | yes | 20/03/07 | no | | | |
| UHGA07-89 | 51002732 | 369023.14 | 6932782.97 | 21.49 | yes | 25/03/07 | no | | | |
| UHGA07-90 | 52042740 | 373174.23 | 6933168.39 | 22.07 | yes | 26/03/07 | no | | | |

Uphole Location Files for the GAOG 2007 Spinel 3D Uphole Drilling Survey

| DSS Surveys Pre-Drilling Uphole Locations | | | | | Post Drilling Information | | | | | |
|---|----------|-----------|------------|-------|---------------------------|----------|-----------|---------------------|--------------|---------------|
| Uphole | Station | Easting | Northing | Elev | Drilled? | Date | Shifted ? | New Location/Reason | New eastings | New Northings |
| UHGA07-91 | 51802756 | 372268.89 | 6933807.76 | 23.52 | yes | 26/03/07 | no | | | |
| UHGA07-92 | 52362756 | 374457.01 | 6933815.82 | 29.03 | yes | 26/03/07 | no | | | |
| UHGA07-93 | 52922780 | 376689.97 | 6934815 | 23.18 | yes | 27/03/07 | no | | | |
| UHGA07-94 | 52042788 | 373146.36 | 6935069.51 | 22.76 | yes | 26/03/07 | no | | | |
| UHGA07-95 | 52602796 | 375387.58 | 6935421.5 | 24.67 | yes | 27/03/07 | no | | | |
| UHGA07-96 | 52842820 | 376356.22 | 6936406.09 | 35.25 | yes | 27/03/07 | no | | | |
| UHGA07-97 | 51082828 | 369295.99 | 6936626.21 | 21.64 | yes | 26/03/07 | no | | | |
| UHGA07-98 | 52442836 | 374723.72 | 6937039.54 | 24.04 | yes | 27/03/07 | no | | | |
| UHGA07-99 | 51482804 | 370798.79 | 6935691.37 | 23.05 | yes | 26/03/07 | no | | | |
| UHGA07-100 | 51562852 | 371282.86 | 6937617.22 | 28.88 | yes | 26/03/07 | no | | | |
| UHGA07-101 | 51002884 | 368960.1 | 6938870.07 | 22.78 | yes | 26/03/07 | no | | | |
| UHGA07-102 | 28845204 | 373097.42 | 6938944.38 | 19.93 | yes | 27/03/07 | no | | | |
| UHGA07-103 | 52922876 | 376634.02 | 6938642.04 | 25.38 | yes | 27/03/07 | no | | | |
| Drilled to Date = | | | | | 103 | | | | | |

GREAT ARTESIAN OIL & GAS LIMITED'S 2007 SPINEL SEISMIC SURVEY

APPENDIX V

LINE PREPARATION PRODUCTION

Line Preparation Statistics for Terrex Contracting on GAOG's 2007 Spinel 3D Seismic Survey

| Date | DOZER # 5 (Komatsu D65EX) | | | | | DOZER # 6 (Komatsu D65EX & D7) | | | | | DOZER # 7 (Komatsu D65EX) | | | | | DOZER # 8 (Komatsu D65EX) | | | | | Gra #1 (JD) | | Gra #2 (Ca) | | Tot day Km | Comments | | |
|--------|---------------------------|-------|-------------|-----------|-------|--------------------------------|-------|-------------|-----------|-------|---------------------------|-------|-------------|-----------|-------|---------------------------|-------|-------------|-----------|-------|-------------|-------|-------------|------|------------|----------------------------------|------------------|--|
| | Km | Work | Walk/ Float | Full Rate | Stby | Km | Work | Walk/ Float | Full Rate | Stby | Km | Work | Walk/ Float | Full Rate | Stby | Km | Work | Walk/ Float | Full Rate | Stby | Work | Stby | Work | Stby | | | | |
| Dec-06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | 2.00 | | | | | 1.00 | | | | | 2.00 | | | | | 2.00 | | 1.00 | | 2.00 | | c/m 11 hrs; stby induction 1 hr; | | |
| 15 | 8.92 | 7.50 | 0.50 | 8.00 | 4.00 | 4.40 | 7.00 | | 7.00 | 0.25 | 5.76 | 7.50 | 1.50 | 9.00 | 3.00 | 3.12 | 7.50 | 1.50 | 9.00 | 3.00 | 7.50 | 4.50 | 7.50 | 4.50 | 22.20 | stby wait coords 1 hr | | |
| 16 | 8.40 | 12.00 | | 12.00 | 0.25 | 6.12 | 11.00 | | 11.00 | 0.25 | 9.52 | 9.00 | | 9.00 | 0.25 | 12.12 | 12.00 | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 36.16 | | | |
| 17 | 5.68 | 12.00 | | 12.00 | 0.25 | 5.32 | 11.00 | | 11.00 | 0.25 | 8.60 | 12.00 | | 12.00 | 0.25 | 9.88 | 12.00 | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 29.48 | | | |
| 18 | 7.00 | 11.00 | | 11.00 | 0.25 | 5.84 | 11.00 | | 11.00 | 0.25 | 7.00 | 9.00 | | 9.00 | 0.25 | 8.92 | 11.00 | | 11.00 | 0.25 | 11.00 | 0.25 | ### | 0.25 | 28.76 | | | |
| 19 | 17.12 | 12.00 | | 12.00 | 0.25 | 7.64 | 12.00 | | 12.00 | 0.25 | 7.00 | 12.00 | | 12.00 | 0.25 | 6.04 | 12.00 | | 12.00 | 0.25 | 11.50 | 0.25 | ### | 0.25 | 37.80 | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 | Xmas break | |
| er | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTALS | 47.12 | 54.50 | 0.50 | 55.00 | 5.00 | 29.32 | 52.00 | 0.00 | 52.00 | 1.25 | 37.88 | 49.50 | 1.50 | 51.00 | 4.00 | 40.08 | 54.50 | 1.50 | 56.00 | 4.00 | 54.00 | 5.50 | ### | 5.50 | 154.40 | | | |
| Jan-07 | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 | " " | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 | mobilise | |
| 6 | 20.32 | 12.00 | | 12.00 | 0.25 | 16.24 | 12.00 | | 12.00 | 0.25 | 6.68 | 12.00 | | 12.00 | 0.25 | 6.64 | 12.00 | | 12.00 | 0.25 | 12.00 | 0.25 | | | 49.88 | resume cutting | | |
| 7 | 0.00 | 0.00 | | 0.00 | 0.00 | 10.48 | 10.50 | 1.00 | 11.50 | 0.25 | 18.24 | 11.00 | 1.00 | 12.00 | 0.25 | 11.52 | 12.00 | | 12.00 | 1.25 | 11.50 | 0.25 | | | 40.24 | | | |
| 8 | 15.32 | 11.00 | | 11.00 | 0.25 | 8.08 | 11.00 | | 11.00 | 0.25 | 12.72 | 11.00 | | 11.00 | 0.25 | 7.04 | 11.00 | | 11.00 | 0.25 | 11.00 | 0.25 | | | 43.16 | | | |
| 9 | 9.72 | 9.50 | | 9.50 | 0.25 | 9.52 | 11.50 | 0.50 | 12.00 | 0.25 | 13.80 | 12.00 | | 12.00 | 0.25 | 8.44 | 11.00 | 1.00 | 12.00 | 0.25 | 12.00 | 0.25 | | | 41.48 | | | |
| 10 | 17.88 | 12.00 | | 12.00 | 0.25 | 9.32 | 12.00 | | 12.00 | 0.25 | 10.48 | 12.00 | | 12.00 | 0.25 | 7.08 | 12.00 | | 12.00 | 0.25 | 12.00 | 0.25 | | | 44.76 | | | |
| 11 | 13.52 | 12.00 | | 12.00 | 0.25 | 11.44 | 12.00 | | 12.00 | 0.25 | 9.76 | 12.00 | | 12.00 | 0.25 | 9.56 | 12.00 | | 12.00 | 0.25 | 12.00 | 0.25 | | | 44.28 | | | |
| 12 | 13.08 | 12.00 | | 12.00 | 0.25 | 8.64 | 12.00 | | 12.00 | 0.25 | 15.08 | 12.00 | | 12.00 | 0.25 | 9.56 | 12.00 | | 12.00 | 0.25 | 12.00 | 0.25 | | | 46.36 | | | |
| 13 | 22.60 | 12.00 | | 12.00 | 0.25 | 20.04 | 12.00 | | 12.00 | 0.25 | 20.16 | 12.00 | | 12.00 | 0.25 | 18.12 | 12.00 | | 12.00 | 0.25 | 12.00 | 0.25 | | | 80.92 | | | |
| 14 | 15.72 | 12.00 | | 12.00 | 0.25 | 15.84 | 12.00 | | 12.00 | 0.25 | 10.20 | 12.00 | | 12.00 | 0.25 | 12.12 | 11.50 | | 11.50 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 53.88 | grader#2 starts again | | |
| 15 | 13.04 | 11.00 | | 11.00 | 0.25 | 9.52 | 11.00 | | 11.00 | 0.25 | 15.40 | 11.00 | | 11.00 | 0.25 | 12.68 | 11.00 | | 11.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 50.64 | | | |
| 16 | 16.84 | 12.00 | | 12.00 | 0.25 | 10.80 | 12.00 | | 12.00 | 0.25 | 0.00 | 0.00 | | 0.00 | 0.25 | 17.68 | 12.00 | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 45.32 | | | |
| 17 | 13.16 | 12.00 | | 12.00 | 0.25 | 10.24 | 12.00 | | 12.00 | 0.25 | 6.12 | 3.50 | | 3.50 | 0.25 | 11.00 | 12.00 | | 12.00 | 0.25 | 11.00 | 0.25 | ### | 0.25 | 40.52 | | | |
| 18 | 0.00 | 0.00 | | 0.00 | 10.00 | 0.00 | 0.00 | | 0.00 | 10.00 | 0.00 | 0.00 | | 0.00 | 10.00 | 0.00 | 0.00 | | 0.00 | 10.00 | 0.00 | 10.00 | 0.00 | 0.00 | 10.00 | 0.00 | stby due to rain | |
| 19 | 6.80 | 6.00 | | 6.00 | 6.25 | 4.40 | 6.00 | | 6.00 | 6.25 | 10.24 | 6.00 | | 6.00 | 6.25 | 10.68 | 6.00 | | 6.00 | 6.25 | 6.00 | 6.25 | 6.00 | 6.25 | 6.00 | 6.25 | 32.12 | |
| 20 | 10.60 | 12.00 | | 12.00 | 0.25 | 9.60 | 12.00 | | 12.00 | 0.25 | 13.44 | 12.00 | | 12.00 | 0.25 | 16.64 | 12.00 | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 50.28 | | | |
| 21 | 0.00 | 0.00 | | 0.00 | 10.00 | 0.00 | 0.00 | | 0.00 | 10.00 | 0.00 | 0.00 | | 0.00 | 10.00 | 0.00 | 0.00 | | 0.00 | 10.00 | 0.00 | 10.00 | 0.00 | 0.00 | 10.00 | 0.00 | stby due to rain | |

Line Preparation Statistics for Terrex Contracting on GAOG's 2007 Spinel 3D Seismic Survey

| Date | DOZER # 5 (Komatsu D65EX) | | | | | DOZER # 6 (Komatsu D65EX & D7) | | | | | DOZER # 7 (Komatsu D65EX) | | | | | DOZER # 8 (Komatsu D65EX) | | | | | Gra #1 (JD) | | Gra #2 (Ca) | | Tot day Km | Comments |
|-----------------|---------------------------|--------|-------------|-----------|-------|--------------------------------|--------|-------------|-----------|-------|---------------------------|--------|-------------|-----------|-------|---------------------------|--------|-------------|-----------|-------|-------------|-------|-------------|-------|------------|------------------------------|
| | Km | Work | Walk/ Float | Full Rate | Stby | Km | Work | Walk/ Float | Full Rate | Stby | Km | Work | Walk/ Float | Full Rate | Stby | Km | Work | Walk/ Float | Full Rate | Stby | Work | Stby | Work | Stby | | |
| 22 | 14.56 | 12.00 | | 12.00 | 0.25 | 17.00 | 12.00 | | 12.00 | 0.25 | 27.48 | 12.00 | | 12.00 | 0.25 | 19.08 | 12.00 | | 12.00 | 0.25 | 13.00 | 0.25 | ### | 0.25 | 78.12 | |
| 23 | 14.72 | 12.00 | | 12.00 | 0.25 | 7.96 | 12.00 | | 12.00 | 0.25 | 13.32 | 12.00 | | 12.00 | 0.25 | 17.60 | 12.00 | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 53.60 | |
| 24 | 7.40 | 12.00 | | 12.00 | 0.25 | 10.00 | 12.00 | | 12.00 | 0.25 | 13.08 | 12.00 | | 12.00 | 0.25 | 17.84 | 10.50 | | 10.50 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 48.32 | |
| 25 | 12.08 | 12.00 | | 12.00 | 0.25 | 14.20 | 12.00 | | 12.00 | 0.25 | 14.00 | 12.00 | | 12.00 | 0.25 | 24.40 | 12.00 | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 64.68 | |
| 26 | 10.80 | 12.00 | | 12.00 | 0.25 | 11.52 | 12.00 | | 12.00 | 0.25 | 13.12 | 12.00 | | 12.00 | 0.25 | 10.60 | 12.00 | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 46.04 | |
| 27 | 11.84 | 12.00 | | 12.00 | 0.25 | 11.16 | 12.00 | | 12.00 | 0.25 | 12.76 | 12.00 | | 12.00 | 0.25 | 12.12 | 12.00 | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 47.88 | |
| 28 | 15.08 | 12.00 | | 12.00 | 0.25 | 24.96 | 12.00 | | 12.00 | 0.25 | 15.28 | 12.00 | | 12.00 | 0.25 | 14.08 | 9.00 | | 9.00 | 0.25 | 12.00 | 0.25 | 0.50 | 0.25 | 69.40 | |
| 29 | 19.52 | 11.00 | | 11.00 | 0.25 | 6.40 | 10.00 | | 10.00 | 0.25 | 7.24 | 11.00 | | 11.00 | 0.25 | 9.92 | 11.00 | | 11.00 | 0.25 | 11.00 | 0.25 | ### | 0.25 | 43.08 | |
| 30 | 10.84 | 12.00 | | 12.00 | 0.25 | 14.96 | 12.00 | | 12.00 | 0.25 | 11.84 | 12.00 | | 12.00 | 0.25 | 8.00 | 10.00 | | 10.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 45.64 | |
| 31 | 4.12 | 3.50 | | 3.50 | 0.25 | 7.52 | 12.00 | | 12.00 | 0.25 | 6.32 | 12.00 | | 12.00 | 0.25 | 3.20 | 3.50 | | 3.50 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 21.16 | move camp; D5, D8 ops assist |
| January TOTALS: | 309.56 | 256.00 | 0.00 | 256.00 | 31.75 | 279.84 | 276.00 | 1.50 | 277.50 | 32.00 | 296.76 | 257.50 | 1.00 | 258.50 | 32.00 | 295.60 | 262.50 | 1.00 | 263.50 | 33.00 | 279.50 | 32.00 | ### | 30.00 | ##### | |
| Feb | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 | |
| 1 | 10.56 | 12.00 | | 12.00 | 0.25 | 5.76 | 12.00 | | 12.00 | 0.25 | 12.68 | 12.00 | | 12.00 | 0.25 | 8.96 | 12.00 | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 37.96 | |
| 2 | 14.08 | 12.00 | | 12.00 | 0.25 | 10.12 | 12.00 | | 12.00 | 0.25 | 10.80 | 12.00 | | 12.00 | 0.25 | 11.20 | 12.00 | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 46.20 | |
| 3 | 13.68 | 12.00 | | 12.00 | 0.25 | 10.24 | 12.00 | | 12.00 | 0.25 | 9.56 | 12.00 | | 12.00 | 0.25 | 9.20 | 11.00 | | 11.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 42.68 | |
| 4 | 0.80 | 1.50 | | 1.50 | 0.25 | 7.60 | 12.00 | | 12.00 | 0.25 | 6.68 | 12.00 | | 12.00 | 0.25 | 9.60 | 12.00 | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 24.68 | |
| 5 | 1.04 | 0.00 | | 0.00 | 0.25 | 11.88 | 11.00 | | 11.00 | 0.25 | 11.80 | 11.00 | | 11.00 | 0.25 | 19.16 | 11.00 | | 11.00 | 0.25 | 11.00 | 0.25 | ### | 0.25 | 43.88 | |
| 6 | 0.00 | 0.00 | | 0.00 | 0.25 | 4.12 | 6.50 | | 6.50 | 0.25 | 9.56 | 8.00 | | 8.00 | 0.25 | 13.36 | 9.00 | | 9.00 | 0.25 | 0.00 | 0.25 | ### | 0.25 | 27.04 | |
| 7 | 0.00 | 0.00 | 1.00 | 1.00 | 0.25 | 11.12 | 11.00 | | 11.00 | 0.25 | 14.04 | 8.50 | | 8.50 | 0.25 | 17.20 | 12.00 | | 12.00 | 0.25 | 3.00 | 0.25 | ### | 0.25 | 42.36 | |
| 8 | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.25 | 19.64 | 12.00 | | 12.00 | 0.25 | 16.68 | 11.50 | 0.50 | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 36.32 | |
| 9 | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.25 | 10.80 | 12.00 | | 12.00 | 0.25 | 12.48 | 12.00 | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 23.28 | |
| 10 | 0.00 | 0.00 | | 0.00 | 0.00 | 10.68 | 9.50 | | 9.50 | 0.25 | 13.40 | 12.00 | | 12.00 | 0.25 | 12.16 | 12.00 | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 36.24 | |
| 11 | 0.00 | 0.00 | | 0.00 | 0.00 | 7.76 | 10.00 | | 10.00 | 0.25 | 10.92 | 12.00 | | 12.00 | 0.25 | 11.52 | 12.00 | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 30.20 | |
| 12 | 0.00 | 0.00 | | 0.00 | 0.00 | 13.36 | 11.00 | | 11.00 | 0.25 | 23.68 | 12.00 | | 12.00 | 0.25 | 14.04 | 11.00 | | 11.00 | 0.25 | 11.00 | 0.25 | ### | 0.25 | 51.08 | |
| 13 | 0.00 | 0.00 | | 0.00 | 0.00 | 12.48 | 12.00 | | 12.00 | 0.25 | 21.56 | 12.00 | | 12.00 | 0.25 | 19.48 | 12.00 | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 53.52 | |
| 14 | 0.00 | 0.00 | | 0.00 | 0.00 | 13.36 | 12.00 | | 12.00 | 0.25 | 17.60 | 12.00 | | 12.00 | 0.25 | 8.24 | 12.00 | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 39.20 | |
| 15 | 0.00 | 0.00 | | 0.00 | 0.00 | 14.16 | 12.00 | | 12.00 | 0.25 | 19.84 | 12.00 | | 12.00 | 0.25 | 9.04 | 12.00 | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 43.04 | |
| 16 | 0.00 | 0.00 | | 0.00 | 0.00 | 5.00 | 7.00 | | 7.00 | 0.25 | 17.60 | 12.00 | | 12.00 | 0.25 | 12.68 | 12.00 | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 35.28 | |
| 17 | 0.00 | 0.00 | | 0.00 | 0.00 | 19.40 | 12.00 | | 12.00 | 0.25 | 13.08 | 12.00 | | 12.00 | 0.25 | 14.32 | 12.00 | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 46.80 | |

Line Preparation Statistics for Terrex Contracting on GAOG's 2007 Spinel 3D Seismic Survey

| Date | DOZER # 5 (Komatsu D65EX) | | | | | DOZER # 6 (Komatsu D65EX & D7) | | | | | DOZER # 7 (Komatsu D65EX) | | | | | DOZER # 8 (Komatsu D65EX) | | | | | Gra #1 (JD) | | Gra #2 (Ca) | | Tot day Km | Comments | |
|-----------------|---------------------------|-------|-------------|-----------|------|--------------------------------|--------|-------------|-----------|------|---------------------------|--------|-------------|-----------|------|---------------------------|--------|-------------|-----------|-------|-------------|-------|-------------|------|------------|----------|----------------------------------|
| | Km | Work | Walk/ Float | Full Rate | Stby | Km | Work | Walk/ Float | Full Rate | Stby | Km | Work | Walk/ Float | Full Rate | Stby | Km | Work | Walk/ Float | Full Rate | Stby | Work | Stby | Work | Stby | | | |
| 18 | 0.00 | 0.00 | | 0.00 | 0.00 | 15.88 | 12.00 | | 12.00 | 0.25 | 14.36 | 12.00 | | 12.00 | 0.25 | 0.64 | 10.50 | | 2.00 | 12.50 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 30.88 | |
| 19 | 0.00 | 0.00 | | 0.00 | 0.00 | 7.64 | 11.00 | | 11.00 | 0.25 | 14.40 | 11.00 | | 11.00 | 0.25 | 0.00 | 10.00 | | | 10.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 22.04 | |
| 20 | 0.00 | 0.00 | | 0.00 | 0.00 | 8.92 | 12.50 | | 12.50 | 0.25 | 7.96 | 12.00 | | 12.00 | 0.25 | 0.00 | 12.00 | | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 16.88 | |
| 21 | 0.00 | 0.00 | | 0.00 | 0.00 | 9.20 | 4.50 | | 4.50 | 0.25 | 8.60 | 12.00 | | 12.00 | 0.25 | 0.00 | 12.00 | | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 17.80 | |
| 22 | 0.00 | 0.00 | | 0.00 | 0.00 | 5.12 | 7.00 | | 7.00 | 0.25 | 9.24 | 12.00 | | 12.00 | 0.25 | 0.00 | 12.00 | | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 14.36 | |
| 23 | 0.00 | 0.00 | | 0.00 | 0.00 | 4.40 | 4.00 | | 4.00 | 0.25 | 4.08 | 12.00 | | 12.00 | 0.25 | 0.00 | 8.50 | | 3.50 | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 8.48 | |
| 24 | 0.00 | 0.00 | | 0.00 | 0.00 | 12.72 | 11.50 | | 11.50 | 0.25 | 13.96 | 12.00 | | 12.00 | 0.25 | 0.00 | 10.00 | | | 10.00 | 2.25 | 12.00 | 0.25 | ### | 0.25 | 26.68 | Grader #8 on re-cuts in big dune |
| 25 | 0.00 | 0.00 | | 0.00 | 0.00 | 21.60 | 12.00 | | 12.00 | 0.25 | 12.72 | 12.00 | | 12.00 | 0.25 | 2.56 | 12.00 | | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 36.88 | Dozer 8 on side cuts/access |
| 26 | 0.00 | 0.00 | | 0.00 | 0.00 | 14.88 | 11.00 | | 11.00 | 0.25 | 11.52 | 11.00 | | 11.00 | 0.25 | 1.28 | 11.00 | | | 11.00 | 0.25 | 11.00 | 0.25 | ### | 0.25 | 27.68 | as above |
| 27 | 0.00 | 0.00 | | 0.00 | 0.00 | 8.20 | 10.00 | | 10.00 | 0.25 | 10.56 | 12.00 | | 12.00 | 0.25 | | 12.00 | | | 12.00 | 0.25 | 11.00 | 1.00 | ### | 1.00 | 18.76 | D#8 side cuts. Graders 1 hr mai |
| 28 | 0.00 | 0.00 | | 0.00 | 0.00 | 11.24 | 9.50 | | 9.50 | 0.25 | 8.12 | 12.00 | | 12.00 | 0.25 | 7.04 | 12.00 | | | 12.00 | 0.25 | | 10.25 | ### | 0.25 | 26.40 | CAT Grader caught 'dozers. |
| February TOTALS | 40.16 | 37.50 | 1.00 | 38.50 | 1.75 | 276.84 | 267.00 | 0.00 | 267.00 | 7.00 | 358.76 | 325.50 | 0.00 | 325.50 | 7.00 | 230.84 | 319.50 | 6.00 | 325.50 | 9.00 | 299.00 | 17.75 | ### | 7.75 | 906.60 | | |
| 1-Mar | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13.80 | 11.00 | | 11.00 | 0.25 | 7.44 | 12.00 | | 12.00 | 0.25 | 5.96 | 12.00 | | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 27.20 | |
| 2-Mar | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.28 | 10.00 | | 10.00 | 0.25 | 7.64 | 12.00 | | 12.00 | 0.25 | 12.40 | 12.00 | | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 31.32 | |
| 3-Mar | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.20 | 3.00 | | 3.00 | 0.25 | 10.56 | 12.00 | | 12.00 | 0.25 | 17.16 | 12.00 | | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 30.92 | |
| 4-Mar | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.76 | 1.00 | | 1.00 | 0.25 | 16.24 | 12.00 | | 12.00 | 0.25 | 6.72 | 12.00 | | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 24.72 | |
| 5-Mar | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | 7.40 | 11.00 | | 11.00 | 0.25 | 11.00 | 11.00 | | | 11.00 | 0.25 | 5.00 | 10.00 | | 10.00 | 18.40 | Graders stby - upto dozers |
| 6-Mar | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.36 | 3.00 | | 3.00 | 0.25 | 8.72 | 12.00 | | 12.00 | 0.25 | 12.96 | 12.00 | | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 29.04 | Dozer #6 repaired |
| 7-Mar | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.60 | 10.00 | | 10.00 | 0.25 | 2.00 | 12.00 | | 12.00 | 0.25 | 7.64 | 12.00 | | | 12.00 | 0.25 | | 10.25 | | 10.25 | 19.24 | Difficult camp move |
| 8-Mar | 0.00 | | | 0.00 | | 15.08 | 12.00 | | 12.00 | 0.25 | 12.48 | 12.00 | | 12.00 | 0.25 | 8.32 | 12.00 | | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 35.88 | |
| 9-Mar | 0.00 | | | 0.00 | | 8.36 | 12.00 | | 12.00 | 0.25 | 8.00 | 12.00 | | 12.00 | 0.25 | 4.72 | 12.00 | | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 21.08 | |
| 10-Mar | 0.00 | | | 0.00 | | 7.16 | 12.00 | | 12.00 | 0.25 | 2.64 | 12.00 | | 12.00 | 0.25 | 7.64 | 12.00 | | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 17.44 | |
| 11-Mar | 0.00 | | | 0.00 | | 28.00 | 12.00 | | 12.00 | 0.25 | 12.16 | 12.00 | | 12.00 | 0.25 | 14.40 | 12.00 | | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 54.56 | |
| 12-Mar | 0.00 | | | 0.00 | | 6.28 | 10.00 | | 10.00 | 0.25 | 16.64 | 11.00 | | 11.00 | 0.25 | 9.56 | 10.25 | | 0.75 | 11.00 | 0.25 | 11.00 | 0.25 | ### | 0.25 | 32.48 | |
| 13-Mar | 7.68 | 11.00 | | 11.00 | 1.25 | 0.00 | 0.00 | | 0.00 | 0.00 | 6.40 | 12.00 | | 12.00 | 0.25 | 15.04 | 12.00 | | | 12.00 | 0.25 | 12.00 | 0.25 | ### | 0.25 | 29.12 | |
| 14-Mar | 5.44 | 7.00 | | 7.00 | 1.25 | 0.00 | 0.00 | | 0.00 | 0.00 | 11.84 | 11.00 | | 11.00 | 0.25 | 7.04 | 3.00 | | | 3.00 | 0.25 | 11.00 | 0.25 | ### | 0.25 | 24.32 | |
| 15-Mar | 13.24 | 11.00 | | 11.00 | 0.25 | 14.40 | 11.00 | | 11.00 | 0.00 | 9.36 | 11.00 | | 11.00 | 0.25 | 0.00 | 0.00 | | | 0.00 | 0.25 | 11.00 | 0.25 | | | 37.00 | cat grader stood down |
| 16-Mar | 10.48 | 11.00 | | 11.00 | 0.25 | 7.68 | 11.00 | | 11.00 | 0.25 | 11.44 | 11.00 | | 11.00 | 0.25 | 0.00 | 0.00 | | | 0.00 | 0.00 | 11.00 | 0.25 | | | 29.60 | |
| 17-Mar | 15.72 | 11.00 | | 11.00 | 0.25 | 15.36 | 11.00 | | 11.00 | 0.25 | 12.20 | 11.00 | | 11.00 | 0.25 | 0.00 | 0.00 | | | 0.00 | 0.00 | 11.00 | 0.25 | | | 43.28 | |

Line Preparation Statistics for Terrex Contracting on GAOG's 2007 Spinel 3D Seismic Survey

| Date | DOZER # 5 (Komatsu D65EX) | | | | | DOZER # 6 (Komatsu D65EX & D7) | | | | | DOZER # 7 (Komatsu D65EX) | | | | | DOZER # 8 (Komatsu D65EX) | | | | | Gra #1 (JD) | | Gra #2 (Ca) | | Tot day Km | Comments | |
|----------------|---------------------------|--------|-------------|-----------|-------|--------------------------------|--------|-------------|-----------|-------|---------------------------|--------|-------------|-----------|-------|---------------------------|--------|-------------|-----------|-------|-------------|-------|-------------|-------|------------|----------|-----------------|
| | Km | Work | Walk/ Float | Full Rate | Stby | Km | Work | Walk/ Float | Full Rate | Stby | Km | Work | Walk/ Float | Full Rate | Stby | Km | Work | Walk/ Float | Full Rate | Stby | Work | Stby | Work | Stby | | | |
| 18-Mar | 12.48 | 11.00 | | 11.00 | 0.25 | 11.12 | 11.00 | | 11.00 | 0.25 | 11.52 | 11.00 | | 11.00 | 0.25 | 0.00 | 0.00 | | 0.00 | 0.00 | | 10.00 | 0.25 | | | 35.12 | |
| 19-Mar | 11.20 | 9.00 | | 9.00 | 0.25 | 13.96 | 11.00 | | 11.00 | 0.25 | 15.20 | 11.00 | | 11.00 | 0.25 | 0.00 | 0.00 | | | 0.00 | | 10.00 | 0.25 | | | 40.36 | |
| 20-Mar | 14.08 | 11.00 | | 11.00 | 0.25 | 16.80 | 11.00 | | 11.00 | 0.25 | 11.72 | 11.00 | | 11.00 | 0.25 | 0.00 | 0.00 | | 0.00 | 0.00 | | 11.00 | 0.25 | 8.00 | 0.25 | 42.60 | |
| 21-Mar | 18.24 | 11.00 | | 11.00 | 0.25 | 14.96 | 11.00 | | 11.00 | 0.25 | 16.88 | 11.00 | | 11.00 | 0.25 | 0.00 | | | 0.00 | 0.00 | | 11.00 | 0.25 | ### | 0.25 | 50.08 | |
| 22-Mar | 12.12 | 11.00 | | 11.00 | 0.25 | 19.52 | 11.00 | | 11.00 | 0.25 | 20.80 | 11.00 | | 11.00 | 0.25 | 0.00 | | | 0.00 | 0.00 | | 11.00 | 0.25 | ### | 0.25 | 52.44 | |
| 23-Mar | 15.36 | 11.00 | | 11.00 | 0.25 | 17.28 | 11.00 | | 11.00 | 0.25 | 16.00 | 11.00 | | 11.00 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | 11.00 | 0.25 | ### | 0.25 | 48.64 | |
| 24-Mar | 11.20 | 9.00 | | 9.00 | 2.25 | 14.08 | 9.00 | | 9.00 | 2.25 | 15.36 | 9.00 | | 9.00 | 2.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | 9.00 | 2.25 | 9.00 | 2.25 | 40.64 | stby due rain |
| 25-Mar | 9.60 | 11.00 | | 11.00 | 0.25 | 14.72 | 11.00 | | 11.00 | 0.25 | 14.08 | 11.00 | | 11.00 | 0.25 | 0.00 | 0.00 | | 0.00 | 0.00 | | 11.00 | 0.25 | ### | 0.25 | 38.40 | |
| 26-Mar | 4.16 | 4.00 | 0.50 | 4.50 | 0.25 | 5.44 | 4.00 | 0.50 | 4.50 | 0.25 | 5.76 | 4.00 | 0.50 | 4.50 | 0.25 | 0.00 | 0.00 | | 0.00 | 1.00 | | 11.00 | 0.25 | ### | 0.25 | 15.36 | complete dozing |
| 27-Mar | | | | 0.00 | | | | | 0.00 | | | | | 0.00 | | | | | | | | 6.00 | 0.25 | 7.50 | 0.25 | 0.00 | cmplt grading |
| 28-Mar | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 | move camp |
| March TOTALS: | 161.00 | 139.00 | 0.50 | 139.50 | 7.50 | 277.20 | 219.00 | 0.50 | 219.50 | 7.50 | 290.48 | 288.00 | 0.50 | 288.50 | 8.50 | 140.56 | 156.25 | 0.75 | 157.00 | 4.75 | 281.00 | 28.50 | ### | 27.25 | 869.24 | | |
| Project Totals | 557.84 | 487.00 | 2.00 | 489.00 | 46.00 | 863.20 | 814.00 | 2.00 | 816.00 | 47.75 | 983.88 | 920.50 | 3.00 | 923.50 | 51.50 | 707.08 | 792.75 | 9.25 | 802.00 | 50.75 | 913.50 | 83.75 | ### | 70.50 | ##### | 0.00 | 0.00 |

Total Kms to Cut in Spinel 3D 3124
Days on the job **85 days**
 Average production (km per day) 36.76 Km.
 Total Chargeable Hours = 3030.50
 Average Km/Full rate Charge Hour = 1.03

GREAT ARTESIAN OIL & GAS LIMITED'S 2007 SPINEL 3D SEISMIC SURVEY

APPENDIX VI

DSS SURVEYING PRODUCTION

Production for Dynamic Satellite Surveys in the GAOG 2007 Spinel 3D Seismic Survey

| Date | Receiver Lines Surveyed | Kms | Source Lines Surveyed | Kms | Total Kms | Cum Total | Comments |
|----------------------------|-------------------------|---------------|-----------------------|--------------|---------------|-----------|--|
| Dec-06 | | | | | | | |
| 14 | | | | | | | c/m fromn Scutus 9 hrs; stby wait coordts 3 hrs; stby induction 1 hr |
| 15 | 2228-2244 | 12.64 | | | 12.64 | 12.64 | start survey |
| 16 | 2236-2396 | 29.76 | | | 29.76 | 42.40 | |
| 17 | 2244-2276 | 30.08 | | | 30.08 | 72.48 | |
| 18 | 2276-2340 | 26.48 | | | 26.48 | 98.96 | |
| 19 | 2284-2340 | 18.28 | 5436-5476 | | 20.36 | 38.64 | shut down for Xmas |
| | | | | | | 137.60 | Xmas break |
| | | | | | | 137.60 | |
| Totals for DECEMBER | | 117.24 | | 20.36 | 137.60 | | |
| Jan-07 | | | | | | | |
| 5 | | | | | 0.00 | 137.60 | |
| 6 | 2300-2332 | 10.24 | 5412-5436 | 15.76 | 26.00 | 163.60 | re-mobilise |
| 7 | 2300-2324 | 14.32 | 5356-5460 | 25.44 | 39.76 | 203.36 | start surveying again |
| 8 | 2236-2428 | 13.36 | 5356-5388 | 31.96 | 45.32 | 248.68 | |
| 9 | 2420-2508 | 34.96 | - | 0.00 | 34.96 | 283.64 | |
| 10 | 2460-2540 | 23.80 | 5348-5356 | 8.36 | 32.16 | 315.80 | |
| 11 | 2540-2644 | 26.00 | 5336-5404 | 7.56 | 33.56 | 349.36 | |
| 12 | 2580-2660 | 28.48 | 5356-5372 | 0.08 | 28.56 | 377.92 | |
| 13 | 2604-2660 | 33.08 | 5308-5332 | 18.60 | 51.68 | 429.60 | |
| 14 | - | 0.00 | 5332-5420 | 26.40 | 26.40 | 456.00 | |
| 15 | 2636-2636 | 6.84 | 5404-5476 | 32.76 | 39.60 | 495.60 | |
| 16 | 2188-2220 | 13.52 | 5324-5372 | 24.72 | 38.24 | 533.84 | |
| 17 | 2188-2556 | 3.56 | 5324-5420 | 30.12 | 33.68 | 567.52 | |
| 18 | | | | | 0.00 | 567.52 | |
| 19 | 2532-2556 | 15.24 | 5324 | 6.12 | 21.36 | 588.88 | |
| 20 | 2532-2732 | 49.32 | - | 0.00 | 49.32 | 638.20 | |
| 21 | - | 0.00 | - | 0.00 | 0.00 | 638.20 | stby due to wet conditions |
| 22 | 2620-2660 | 23.84 | 5300-5308 | 18.24 | 42.08 | 680.28 | |
| 23 | 2572-2612 | 19.28 | 5276-5308 | 19.52 | 38.80 | 719.08 | |
| 24 | 2500-2564 | 20.80 | 5276-5316 | 20.12 | 40.92 | 760.00 | |
| 25 | 2484-2500 | 10.80 | 5252-5292 | 29.08 | 39.88 | 799.88 | |

Production for Dynamic Satellite Surveys in the GAOG 2007 Spinel 3D Seismic Survey

| Date | Receiver Lines Surveyed | Kms | Source Lines Surveyed | Kms | Total Kms | Cum Total | Comments |
|--------------------|-------------------------|--------|-----------------------|--------|-----------|-----------|--|
| 26 | 2452-2484 | 13.76 | 5236-5252 | 35.08 | 48.84 | 848.72 | |
| 27 | 2404-2444 | 21.12 | 5244-5276 | 36.40 | 57.52 | 906.24 | |
| 28 | 2300-2476 | 43.56 | 5284-5236 | 10.04 | 53.60 | 959.84 | |
| 29 | 2188-2364 | 52.08 | 5180-5300 | 7.20 | 59.28 | 1019.12 | |
| 30 | 2260-2412 | 31.32 | 5180-5316 | 22.44 | 53.76 | 1072.88 | |
| 31 | 2420-2252 | 22.24 | 5236-5316 | 29.76 | 52.00 | 1124.88 | |
| Totals for JANUARY | | 531.52 | | 455.76 | 987.28 | | |
| Feb-07 | | | | | 0.00 | 1124.88 | |
| 1 | 2164-2180 | 10.92 | 5244-5372 | 47.68 | 58.60 | 1183.48 | |
| 2 | 2108-2172 | 48.80 | 5260 | 3.28 | 52.08 | 1235.56 | |
| 3 | 1908-2124 | 61.48 | | | 61.48 | 1297.04 | |
| 4 | 1956-2092 | 48.72 | | | 48.72 | 1345.76 | |
| 5 | 1908-2660 | 34.72 | 5172-5396 | 18.80 | 53.52 | 1399.28 | |
| 6 | 1884-2180 | 38.60 | | | 38.60 | 1437.88 | |
| 7 | 2380-2452 | 6.32 | | | 6.32 | 1444.20 | |
| 8 | 1988-2068 | 11.48 | 5284-5372 | 23.72 | 35.20 | 1479.40 | |
| 9 | | | 5276-5372 | 37.64 | 37.64 | 1517.04 | |
| 10 | 2012-2052 | 2.96 | 5244-5356 | 33.20 | 36.16 | 1553.20 | |
| 11 | 1932-2332 | 23.16 | 5236-5332 | 19.52 | 42.68 | 1595.88 | |
| 12 | 1980-2156 | 48.84 | 5180 | 0.08 | 48.92 | 1644.80 | |
| 13 | 2012-2212 | 45.16 | | | 45.16 | 1689.96 | |
| 14 | 2020-2124 | 21.40 | 5204-5228 | 22.72 | 44.12 | 1734.08 | |
| 15 | 2028-2100 | 24.60 | 5188-5212 | 23.04 | 47.64 | 1781.72 | |
| 16 | 2044-2108 | 24.60 | 5124-5180 | 46.60 | 71.20 | 1852.92 | |
| 17 | 2060-2068 | 6.24 | 4988-5228 | 41.64 | 47.88 | 1900.80 | |
| 18 | 1932-1956 | 5.60 | 5336-5348 | 54.92 | 60.52 | 1961.32 | |
| 19 | | | 5060-5124 | 40.48 | 40.48 | 2001.80 | |
| 20 | 1900-1924 | 15.36 | 5092-5212 | 30.64 | 46.00 | 2047.80 | |
| 21 | 1884-1892 | 7.64 | 5084-5180 | 3.64 | 11.28 | 2059.08 | |
| 22 | | | | | 0.00 | 2059.08 | No survey production - waiting for line prep 'dozers |
| 23 | | | | | 0.00 | 2059.08 | to gain sufficient lead. |
| 24 | | | | | 0.00 | 2059.08 | as above |

Production for Dynamic Satellite Surveys in the GAOG 2007 Spinel 3D Seismic Survey

| Date | Receiver Lines Surveyed | Kms | Source Lines Surveyed | Kms | Total Kms | Cum Total | Comments |
|---------------------|---|--------|--|--------|-----------|-----------|--|
| 25 | 1836, 1844, 1852, 1860, 1868, 1876 | 18.64 | | | 18.64 | 2077.72 | Recommended pegging behind 'dozers. One surveyor demobed, 2 remain on site |
| 26 | 1804, 1812, 1820, 1828, 1836 | 16.52 | 5164 | 7.00 | 23.52 | 2101.24 | |
| 27 | | | 5132, 5140, 5148, 5156, 5172 | 27.32 | 27.32 | 2128.56 | |
| 28 | | | 5084, 5092, 5100, 5108, 5116, 5124 | 24.80 | 24.80 | 2153.36 | EMP7 located on S5100 at fence crossing. |
| Totals for FEBRUARY | | 521.76 | | 506.72 | 1028.48 | | |
| March | | | | | | | |
| 1 | | | 5100, 5164, 5172 | 17.92 | 17.92 | 2171.28 | |
| 2 | | | 5100, 5164, 5172 | 11.72 | 11.72 | 2183.00 | |
| 3 | 2220, 2228, 2236 | 10.48 | 5,092,510,851,165,120,000,000,000,000 | 17.76 | 28.24 | 2211.24 | |
| 4 | 2244, 2252, 2260, 2268, 2276, 2284, 2292, 2300, 2308, 2316 | 28.12 | 5132, 5140, 5148, 5172, 5180, 5188 | 20.04 | 48.16 | 2259.40 | |
| 5 | 2268, 2276, 2284, 2292, 2332 | 9.48 | 5092, 5100, 5108, 5116 | 15.24 | 24.72 | 2284.12 | |
| 6 | 2268, 2276, 2324, 2340, 2348, 2356, 2364 | 18.08 | 5116, 5124, 5132, 5140, 5148, 5156, 5164, 5172 | 16.76 | 34.84 | 2318.96 | |
| 7 | | 0.00 | 5204, 5220 | 8.96 | 8.96 | 2327.92 | Complicated camp move |
| 8 | 2380-3272 | 13.04 | 5196-5228 | 29.36 | 42.40 | 2370.32 | |
| 9 | 2404-2460 | 24.08 | 5172-5196 | 6.00 | 30.08 | 2400.40 | |
| 10 | 2460-2484 | 11.64 | 5116-5148 | 19.32 | 30.96 | 2431.36 | |
| 11 | 2492-2516 | 11.84 | 5092-5164 | 20.4 | 32.24 | 2463.60 | |
| 12 | 2324-2548 | 16.40 | 5132-5212 | 27.68 | 44.08 | 2507.68 | |
| 13 | 2556-2564 | 7.00 | 5092-5180 | 44.76 | 51.76 | 2559.44 | |
| 14 | 2572-2580 | 6.96 | 5180-5228 | 15.04 | 22.00 | 2581.44 | |
| 15 | | 0.00 | 5204-5220 | 19.6 | 19.60 | 2601.04 | |
| 16 | 2588-2636 | 22.12 | 5188-5220 | 20.76 | 42.88 | 2643.92 | |
| 17 | 2636-2692 | 25.32 | 5116-5228 | 21.2 | 46.52 | 2690.44 | |
| 18 | 2692-2740 | 23.12 | 5092-5204 | 20.40 | 43.52 | 2733.96 | |
| 19 | 2572-2764 | 9.72 | 5124-5172 | 35.84 | 45.56 | 2779.52 | |
| 20 | 2764-2820 | 28.08 | | 0 | 28.08 | 2807.60 | |
| 21 | 2740-2876 | 46.76 | 5108-5116 | 6.72 | 53.48 | 2861.08 | |
| 22 | 2772-2868 | 29.24 | 5092-5116 | 23.64 | 52.88 | 2913.96 | |
| 23 | 2372-2892 | 17.80 | 5116-5300 | 38.48 | 56.28 | 2970.24 | |
| 24 | 2844-2892 | 17.56 | 5156-5188 | 23.96 | 41.52 | 3011.76 | |

Production for Dynamic Satellite Surveys in the GAOG 2007 Spinel 3D Seismic Survey

| Date | Receiver Lines Surveyed | Kms | Source Lines Surveyed | Kms | Total Kms | Cum Total | Comments |
|-------------------|-------------------------|---------|-----------------------|---------|-----------|-----------|-----------------|
| 25 | 2868-2892 | 13.92 | 5164-5244 | 46.36 | 60.28 | 3072.04 | |
| 26 | 2884-2892 | -1.56 | 5124-5300 | 45.28 | 43.72 | 3115.76 | complete survey |
| 27 | | | | | | | |
| Totals for MARCH: | | 66.16 | | 99.44 | 962.40 | | |
| | | 1236.68 | | 1082.28 | 3115.76 | | |

Conversion - linear source line to sq.km 3D 0.32

GAOG'S 2007 SPINEL 3D SEISMIC SURVEY, PEL 106 & 91

APPENDIX VII

EQUIPMENT LIST

APPENDIX VII – GAOG 2007 SPINEL 3D: EQUIPMENT LIST

3.1 RECORDING EQUIPMENT, SOURCE EQUIPMENT AND VEHICLES

3.1.1 RECORDING EQUIPMENT

- **SERCEL 428 - 24 Bit 3D Seismic Data Acquisition System**
- Three (3) 19inch Flat Screens with Sun Blade Computer
- Veritas V12 Plotter, UPS, LIM, APM
- Two (2) LTO High Density Tape Drives
- Six Hundred (600) Seismic Cables with 4 x FDU's per cable separated by 55 metres between takeouts (2400 Ch)
- Four (4) Battery case power Cords
- Fifty LAUL Units (Line Power Units)
- Ten LAUX Units (Line Crossing Units)
- Four (4) Sercel Battery Chargers
- **Pelton Real Time VIBPRO VibSig Similarity System**
- One (1) 10 metre 6 DB Boost High Gain Antenna on Recording Truck
- **Sensor SM4 10Hz High Specification Superphones**
- Four Thousand Eight Hundred (5000) Geophone strings with 6 ph/group (equivalent of 2500 Channels of 12 phones/group)/

Note: Terrex Seismic warrants that 90% of equipment will be used in field and up to 10% may be undergoing repair and maintenance.

3.1.2 SOURCE EQUIPMENT

- **Four (4) Input-Output AVH IV 4x4 Buggy Vibrators:**
- Peak force is 62000lbs per Vibe and
- Hold-Down weight is 62400lbs per Vibe
- **Four (4) Pelton VibPro Vibrator Control Electronics**
- One (1) Pelton VibPro Encoder Sweep Generator for Recorder
- Three (3) Vibrators operating Online and One (1) on Standby
- Electronics are capable of Trade Marked **Varisweep**.

3.1.3 VEHICLES

Support Vehicles

| | | | |
|---------|------|------------------|---------------------------|
| One (1) | 2000 | FTS700 Isuzu 4x4 | RecordingTruck/ 15Kva Gen |
| One (1) | 1998 | Paystar 6x6 | Vibrator Service Unit |
| Two (2) | 1994 | Isuzu 4x4 | Cable/Geophone Units |
| One (1) | 1992 | Isuzu 4x4 | Hiab Crane / Supply Unit |
| One (1) | 1992 | Isuzu 6x4 | Fuel Tanker |

Total Six (6) Crew Support Vehicles

Line Vehicles

APPENDIX VII – GAOG 2007 SPINEL 3D: EQUIPMENT LIST

| | | | |
|--|------|---------------------------|-------------------------|
| One (1) | 2005 | HZJ79 Toyota Trayback 4x4 | Party Manager Unit |
| One (1) | 2005 | HZJ105 Toyota Wagon 4x4 | HSE Representative Unit |
| One (1) | 2005 | HZJ105 Toyota Wagon 4x4 | Vibe Crew Unit |
| Four (4) | 2005 | HZJ105 Toyota Wagon 4x4 | Line Crew Unit |
| One (1) | 2005 | HZJ79 Toyota Trayback 4x4 | Line Boss Unit |
| Two (2) | 2005 | HZJ79 Toyota Trayback 4x4 | Trouble Shooter Unit |
| Three (3) | 2005 | HZJ79 Toyota Trayback 4x4 | Cable Unit |
| Two (2) | 2005 | HZJ79 Toyota Trayback 4x4 | Geophone Unit |
| One (1) | 2005 | HZJ79 Toyota Trayback 4x4 | Mechanics |
| Four (4) | 2005 | HZJ79 Toyota Trayback 4x4 | Spare Units |
| Total Twenty (20) Toyota Landcruisers | | | |

3.2 SURVEY EQUIPMENT

- See Dynamic Satellite Subcontractor Tender

3.3 OFFICE EQUIPMENT AND COMMUNICATIONS

- **One (1) PC based Seismic Information Management System**
 - **One (1) Satellite Telephone in Recording Truck**
 - **One (1) Satellite Telephone in PMs Office**
 - **One (1) Satellite Telephone in PMs Vehicle**
- Two (1) Motorola Syntrex or equivalent FM radio for Field Communications.
- Assorted Daily and Monthly Operations forms, Safety and Environmental Incident Report Forms, Safety and Systems Technical Manuals and Maintenance Handbooks.

3.4 CAMP EQUIPMENT

- One (1) Crew Manager's Office with Aircon, Satellite telephone, fax, email, radios, RFDS Kit, computers, medivac plan.
- Seven (7) Four Man Aircon Accom caravans (24 persons).
- Two (2) Eight Man Aircon Accom caravans (16 persons).
- One (1) Kitchen Aircon caravan with gas cookers, utensils.
- One (1) Freezer caravan with selfcontained freezers and fridges.
- One (1) Dining caravan with Aircon
- Two (2) Four unit Shower / Laundry caravans.
- One (1) Workshop/Parts Store caravan with power and hand tools, electric and oxy/acetylene welding equipment.
- One (1) ATU/Cable Repair Aircon caravan.
- One (1) 4 Unit Chemical Toilet trailer.
- Drinking Water and washing water storage facilities.
- One (1) 150 KVA Generator.

GAOG'S 2007 SPINEL 3D SEISMIC SURVEY, PEL 106 & 91

APPENDIX VIII

PERSONNEL LIST



All Clients

| Sick | Working Offsite |
|---------------|-----------------|
| POSITION | NAMES |
| Crew Manager | Turner Jon |
| Crew Manager | Kneipp Mark |
| APM | Carter Brian |
| APM | |
| HSE Manager | McHugh Leeton |
| HSE | Oswell Geoff |
| HSE (Trainee) | Anderson Sarah |
| | |

| |
|--------------------|
| Admin Staff |
|--------------------|

| | |
|---------------------|-------------------|
| Supervisor Mechanic | Screaigh Tony |
| Mechanic | Matthews Kenneth |
| Mechanic | Cummins Andrew |
| Mechanic | Rohrach Michael |
| Campy | Crossie Elizabeth |
| Campy | Larwood Samantha |
| Campy | Gravino Mary |
| Campy | Halpin Jullian |
| Campy | Payne Jason |
| Cook | Viney Dennis |
| Cook | Cole Kelly |
| Cook | Gill Mark |
| Cook | McKiernan Shane |
| Kitchen Hand | Halpin Jullian |
| Kitchen Hand | Gravino Mary |
| Kitchen Hand | Payne Jason |
| Kitchen Hand | Brown Jeremy |
| Kitchen Hand | Stanley Alan |
| Supply Driver | Belz Vincent |
| Supply Driver | Hanush Ronald |
| Supply Driver | James David |
| Supply Driver | Walker Shane |
| Supply Driver | McKenna Mick |
| | |

| |
|-------------------|
| Camp Staff |
|-------------------|

| | |
|----------|-------------|
| Observer | Helme Nik |
| Observer | Hume Hamish |



All Clients

| Sick | Working Offsite |
|-------------------------|---------------------|
| POSITION | NAMES |
| Vib Op | Cabot Alan |
| Vib Op | James David |
| Vib Op | Lynch David |
| Vib Op | Shufflebotham Shane |
| Vib Op | Atkins Wade |
| Vib Op | Fox Greg |
| Vib Op Scout | Bates Steven |
| Vib Op | |
| Vib Op | |
| Vibrator Crew | |
| Vib Tech | Goossens Shane |
| Vib Tech | Manning Edward |
| Vib Tech (Trainee) | |
| | |
| Vib Tech | |
| Line Boss | Campbell Warren |
| Line Boss | Capper Alyx |
| Line Boss | Byrne Gareth |
| | |
| Snr Line | |
| T/Shooter | Manning Lee |
| T/Shooter | Capper Alyx |
| T/Shooter | Little Greg |
| T/Shooter | Miles Keely |
| T/Shooter | Byrne Nathan |
| | |
| Trouble Shooters | |
| De-Pegger | Belz Vincent |
| De-Pegger | Hanush Ronald |
| De-Pegger | Shufflebotham Shane |
| | |
| De-Peggers | |
| Line Crew | Allen Tommy |
| Line Crew | Ansell Brian |
| Line Crew | Ansell James |
| Line Crew | Ash Mark |
| Line Crew | Bastien Julien |
| Line Crew | Bastien Matt |
| Line Crew | Boulter Russell |
| Line Crew | Branelly Cody |
| Line Crew | Byrne Nathan |
| Line Crew | Campbell Warren |
| Line Crew | Charles Shane |
| Line Crew | Crossie Elizabeth |
| Line Crew | Davidson Anthony |
| Line Crew | Fox Greg |



GREAT ARTESIAN OIL & GAS LIMITED 2007 SPINEL PEL 106/91 3D SEISMIC SURVEY



OPERATIONS REPORT

January – April 2007

BY

MARK KNEIPP

**TERREX SEISMIC
UNIT # 2 / 37 HOWSON WAY
BIBRA LAKE
WESTERN AUSTRALIA 6163**

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1. INTRODUCTION

Terrex Seismic was contracted by Great Artesian Oil & Gas Ltd (GAOG) to conduct the Spinel 3D Seismic Survey. Acquisition commenced on the 29th January 2007 and was completed on the 15th April 2007.

1.1 GEOGRAPHICAL AREA

The Spinel 3D grid is located approximately 90 km North-West of Moomba (S.A).

The surrounding area consisted mainly of rolling sand hills and open flat clay pan country.



Line Conditions on the Spinel 3D.

1.2 WEATHER

The weather varied somewhat during the acquisition program from fine hot days to days of general rain. There was over 50 hours of standby time incurred due to the wet weather, the majority of this occurring prior to actual recording of the program. However, due to the nature of the terrain conditions stabilised quickly, allowing re-commencement of production shortly thereafter.

1.3 LOGISTICS

All equipment and camp mobilised from the Beach, Scutus 2D prospect on the 27th January. The move distance was approximately 250 km which took the crew 10 hours to complete. All camp and equipment were setup at the GAOG, Spinel 3D prospect by 2200 hrs on the 27th January.

Access to all the lines was via the main existing roads and seismic lines on the prospect.

The accommodation facilities were in the form of mobile vans that were provided by Terrex Seismic and were capable of sleeping up to 56 people.

All meals were provided by the mobile kitchen and diner that was staffed by two full time cooks and one kitchen hand.

All supplies including food and freight were transported via road out of Adelaide and picked up in Moomba every week.

Fuel for all vehicles was supplied by Scotts Agencies of Moomba which was picked up and stored in an 18 000 litre Terrex-owned fuel tanker.

All other logistics were supported out of Terrex Seismic Perth Office.

2.0 SURVEYING

2.1 RANGING / CHAINING / SURVEYING

Line chaining and survey for the entire program was completed by Dynamic Satellite Surveys personnel from Yeppoon in Queensland.

2.2 LINE CLEARING

All line clearing was performed by Terrex Contracting.

2.3 PERMITTING

Permitting was carried out by Mr. Bruce Beer.

Bruce was also the main client representative on site throughout the contract, replaced by Mr. Terry Groke on Bruce's rostered time off.



Geophone layout across a salt lake

3.0 RECORDING / PROCESSING

3.1 Instrumentation

| | | |
|---------------|---|--|
| Instruments | : | Sercel 428 |
| No. Channels | : | 1120 (10 lines of 112); |
| Tape Drives | : | IBM Ultrium LT02 (dual drive – 200 Gbyte per tape) |
| Tape Format | : | SEGD, Revision 1, 8058 IEEE De-multiplexed. |
| | | Dual recorded, noise edited correlated (4 sec) sum. |
| Filters | : | Hi-cut 200 Hz, (0.8 Nyquist, Linear phase) 288 db/octave |
| | | Lo-cut: Out |
| Sample Rate | : | 2 ms |
| Record Length | : | 4 sec correlated (9 second uncorrelated) |
| Noise Edit | : | Burst plus Diversity |
| Correlation | : | Real Time Zero Phase, after sum |
| Phase | : | SEG Standard |

Source

| | | |
|------------------------|---|--|
| Vibrators | : | 1 group of 3 x I/O AHV IV's |
| Electronics | : | VibePro Advance III |
| Phase | : | SEG standard format |
| Sweep Frequency | : | 5-90 Hz |
| Sweep Length | : | 5 secs |
| Sweep Function | : | Linear Upsweep |
| No. Sweeps | : | 2 standing |
| VP Interval | : | 40m |
| Source Array | : | 3 vibs in-line, P-P. 12.5m, 2 standing sweeps, centered on peg |
| End Tapers (Cosine) | : | 0.2 sec |
| Phase Locking Type | : | Ground Force |
| Amplitude Control | : | Peak to Peak |
| Sweep Amplitude Taper: | : | 100% (none) |
| Drive Level | : | 90%, varied by amplitude control function |

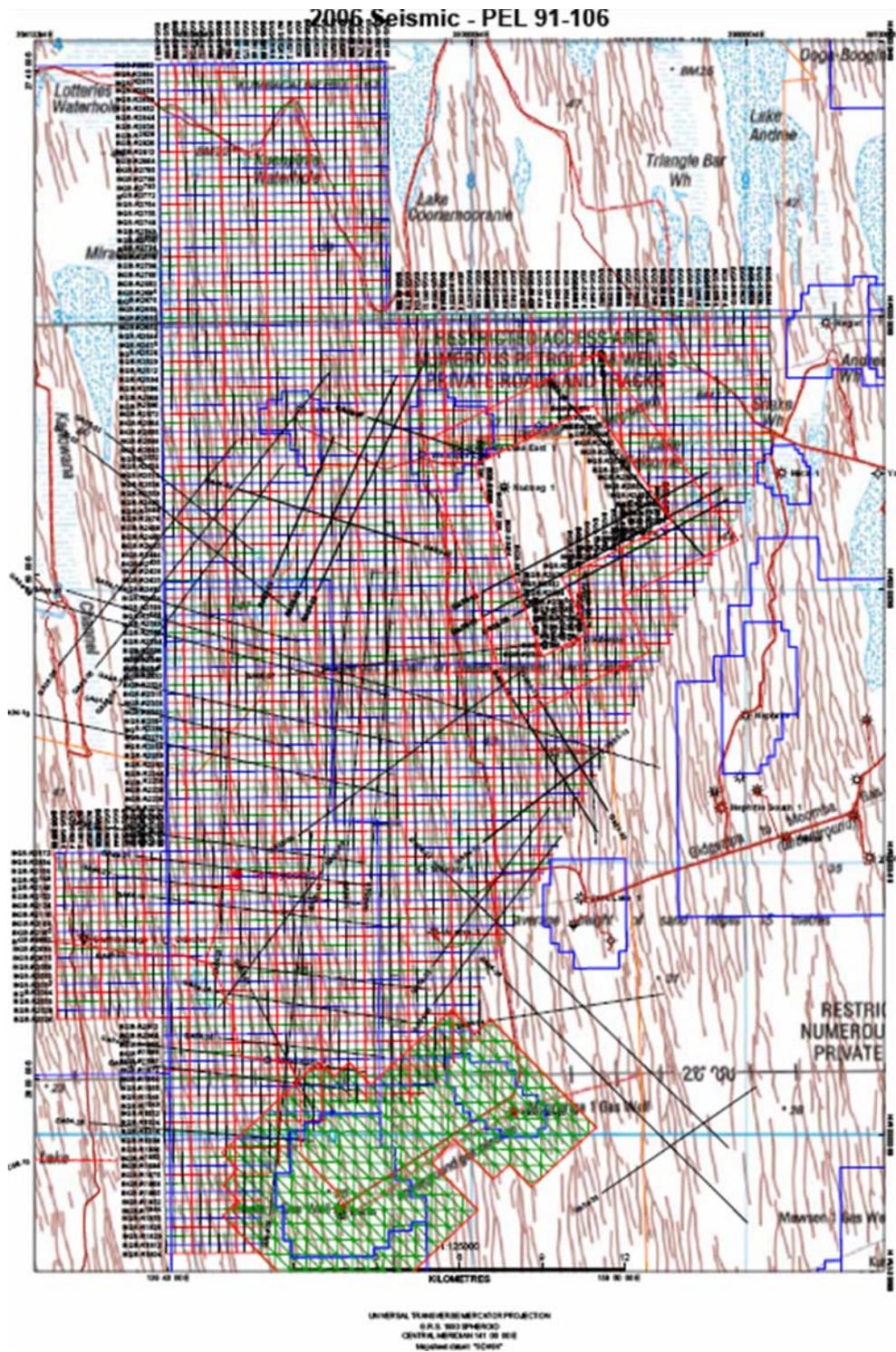
Receiver Data

| | | |
|----------------------|---|------------------|
| Manuf/Model/Res Freq | : | Sensor SM4 10 Hz |
| No./String | : | 12 |
| Connection | : | Series/parallel |

Field Parameters

| | | |
|-------------------------|---|---|
| Receiver Group Interval | : | 40m |
| Receiver Location | : | Centered on stations |
| Receiver Array | : | 12 phones in-line, 2.08 element spacing, 25m array length |
| Spread Geometry | : | Split, source between groups 56/57 each line |
| Fold | : | 35 (7 in-line and 5 cross-line) |

3.2 Prospect Map



Spinel 3D Prospect

3.3 RECORDING

The Spinel 3D is located in the Cooper Basin, 90 km North West of Moomba (S.A). Recording commenced on the 29th January 2007 following 4 days of weather delays and a camp move from the Beach, Scutus 2D prospect South East of Moomba. The program consisted 495.90 square km recorded over 4 panels. The first production profile was recorded on panel 4 on the 29th January following a short testing program.

Panel 4 (Recorded South to North)

Production commenced on this panel on the 29th January on Swath 6 source 5732, receiver 2189 and was completed 7th February on swath 59 source 5324, receiver 2629, a total of 3467 vps, 44.1114 sq km recorded.

Panel 3 (Recorded North to South)

Production commenced on this panel on the 8th February on Swath 60 source 5300, receiver 2700 and was completed 6th March on swath 118 source 5244, receiver 1940, a total of 12661 vps, 161.0885 sq km recorded.

Panel 1 (Recorded North to South)

Production commenced on this panel on the 7th March on Swath 119 source 5092, receiver 2212 and was completed 11th March on swath 139 source 5140, receiver 2052, a total of 1960 vps, 24.9376 sq km recorded.

Panel 2 (Recorded South to North)

Production commenced on this panel on the 11th March on swath 140 source 5092, receiver 2212 and was completed 15th April on swath 321 source 5300, receiver 2893, a total of 33937 vps, 432.04 sq km recorded.

Following the completion of Panel 2 the crew picked up and packed all spread ready for camp move, contract completed. The crew demobed to the next prospect on the 17th April.

3.4 PROCESSING

All final data shipments were sent to:

‘A’ tapes : Velseis Processing, Brisbane for final processing.

‘B’ tapes : GAOG in North Sydney for archiving.

An IDE Portable Hard Drive containing all data was sent to GAOG in North Sydney at completion of the Spinel 3D.

APPENDIX A

EQUIPMENT SPECIFICATIONS

RECORDING EQUIPMENT (3D Surveys)

SERCEL 428 Seismic Data Acquisition System

- **SERCEL 428 - 24 Bit 3D Seismic Data Acquisition System**
 - Three (3) 19inch Flat Screens with Sun Blade Computer
 - Veritas V12 Plotter, UPS, LIM, APM
 - Two (2) LTO High Density Tape Drives
 - Six Hundred (600) Seismic Cables with 4 x FDU's per cable separated by 55 metres between takeouts (2400 Ch)
 - Four (4) Battery case power Cords
 - Fifty LAUL Units (Line Power Units)
 - Ten LAUX Units (Line Crossing Units)
 - Four (4) Sercel Battery Chargers
- **Pelton Real Time VIBPRO VibSig Similarity System**
- One (1) 10 metre 6 DB Boost High Gain Antenna on Recording Truck
- **Sensor SM4 10Hz High Specification Superphones**
- Four Thousand Eight Hundred (4800) Geophone strings with 6 ph/group (equivalent of 2400 Channels of 12 phones/group)/

Note: Terrex Seismic warrants that 90% of equipment will be used in field and up to 10% may be undergoing repair and maintenance.

SOURCE EQUIPMENT

- **Four (4) Input-Output AVH IV 4x4 Buggy Vibrators:**
 - Peak force is 62000lbs per Vibe and
 - Hold-Down weight is 62400lbs per Vibe
- **Four (4) Pelton VibPro Vibrator Control Electronics**
- One (1) Pelton VibPro Encoder Sweep Generator for Recorder
- Three (3) Vibrators operating Online and One (1) on Standby
- Electronics are capable of Trade Marked **Varisweep**.

APPENDIX B

VEHICLE EQUIPMENT LIST

| # | VEHICLE | REGISTRATION |
|----|------------------------------|--------------|
| 1 | 100 Series Landcruiser Wagon | 1CCX-396 |
| 2 | 100 Series Landcruiser Wagon | 093 IIU |
| 3 | 100 Series Landcruiser Wagon | 094 IIU |
| 4 | 100 Series Landcruiser Wagon | 1BOB-567 |
| 5 | 100 Series Landcruiser Wagon | 095 IIU |
| 6 | 100 Series Landcruiser Wagon | 096 IIU |
| 7 | 100 Series Landcruiser Wagon | WZI 799 |
| 8 | Troop Carrier Ambo | 1CGX-030 |
| 9 | Landcruiser Tray back | 013 IZQ |
| 10 | Landcruiser Trayback | 235-GVQ |
| 11 | Landcruiser Trayback | 799-JMJ |
| 12 | Landcruiser Trayback | 1BRD 044 |
| 13 | Landcruiser Trayback | 308-IJX |
| 14 | Landcruiser Trayback | 798-JMJ |
| 15 | Landcruiser Trayback | 092-IIU |
| 16 | Landcruiser Trayback | 1BSR 496 |
| 17 | Landcruiser Trayback | 800-JMJ |
| 18 | Landcruiser Trayback | 344-IJX |
| 19 | Landcruiser Trayback | 801-JMJ |
| 20 | Landcruiser Trayback | 254-JCU |
| 21 | Landcruiser Trayback | 1BGO-007 |
| 22 | Nissan Trayback | 173-JNA |
| 23 | Landcruiser Trayback | 311-IJX |
| | LIGHT VEHICLE LIST | |
| 1 | I/O AHV-IV Vibrator | C 32657 |
| 2 | I/O AHV-IV Vibrator | C 32658 |
| 3 | I/O AHV-IV Vibrator | C 32659 |
| 4 | I/O AHV-IV Vibrator | C 32660 |
| 5 | Isuzu Recorder | 1 CDW 327 |
| 6 | Paystar Water Truck | 627-JAH |
| 7 | MAN Water Truck | G 12833 |
| 8 | Kenworth Water Truck Cab/o | 1AGB 177 |
| 9 | Paystar Vibe Service Truck | 875 HJU |
| 10 | Kenworth Spread Truck | 874 HJU |
| 11 | Hino Spread Truck | 7DT 982 |
| 12 | Hino Spread Truck | BD 610 |
| 13 | Paystar V8 Spread Truck | 1BUI 775 |
| 14 | Isuzu Spread Truck | IAOR 420 |
| 15 | Isuzu Generator Truck | 1AMI 165 |
| 16 | Paystar Mechos | 628-JAH |
| 17 | Isuzu Truck (Crane) | 9DL 970 |
| 18 | Hino Fuel Tanker | RMR 625 |
| | HEAVY VEHICLE LIST | |

| | | |
|----|---|-----------|
| 1 | 6 x 4 Toilet Trailer (Ladies Single) | 1TBF 454 |
| 2 | 7 x 5 Tandem Box Trailer (Sign Trailer) | 1TDN 321 |
| 3 | 8 x 5 Tandem Box Trailer (Wash Down) | 1TBU 582 |
| 4 | Cavalier Diner | 6UO 309 |
| 5 | Cavalier Kitchen | 6UO 308 |
| 6 | Cavalier 6 Man Sleeper | 8UW 160 |
| 7 | Cavalier 6 Man Lunch Room | 8US 599 |
| 8 | Coromal Caravan | 8WS 627 |
| 9 | Coromal Caravan | 8WS 671 |
| 10 | Coromal Caravan | 9RG 567 |
| 11 | Dolly | 509-QJG |
| 12 | Dry Stores/Coolroom on Trailer | 508 QJG |
| 13 | Elross 1 Room (4 man) sleeper | 1TER 545 |
| 14 | Elross 1 Room (4 man) sleeper | 1TER 546 |
| 15 | Elross HSE Office | 1TFB 626 |
| 16 | Homemade 2 Room HSE Office | 502 QJG |
| 17 | Homemade 6 Man sleeper | 497 QJG |
| 18 | Homemade 6 Man sleeper | 501-QJG |
| 19 | Homemade 6 Man sleeper | 499 QJG |
| 20 | Homemade Pig Trailer Laundry | 496 QJG |
| 21 | Homemade Pig Trailer Showers | 504 QJG |
| 22 | Mechanic's Workshop (C'made) | 1TAR 750 |
| 23 | Modern Caravan (Battery Hen) | 6WC 169 |
| 24 | Pacesetter 8 Man Sleeper | 498 QJG |
| 25 | Rio Tinto 3 Room Sleeper | 505 QJG |
| 26 | Rio Tinto 3 Room Sleeper | 506 QJG |
| 27 | Spread Trailer | 507-QJG |
| 28 | Tri-axle trailer (Generators) | 126-QMP |
| 29 | Tandem-axle trailer (Spread) | 092-QIR |
| 30 | Tamworth Cable Repair | N 69423 |
| 31 | Two Man Toilet Trailer (Truck Tow) | 503-QJG |
| 32 | Tandem 3 Toilet Trailer | 0TDJ 497 |
| 33 | Elross New Office/ 2 Man sleeper | 1 TGL 813 |
| 34 | Elross Diner | 1 TGZ 789 |
| 35 | Elross Kitchen | 1TGZ 790 |
| 36 | Bimarco Shower/Laundry (4 shower) | N60196 |
| 37 | Elross 3 Rooms (6 man) sleeper | 1TGL 663 |
| 38 | Elross 3 Rooms (6 man) sleeper | 1TGL 664 |
| 39 | Elross 3 Rooms (6 man) sleeper | 1TGL 666 |
| 40 | Elross 3 Rooms (6 man) sleeper | 1TGL 815 |
| 41 | Elross 3 Rooms (6 man) sleeper | 1TGL 812 |
| 42 | Elross 3 Rooms (6 man) sleeper | 1TGL 811 |
| | VAN & TRAILER LIST | |

APPENDIX C

OCCUPATIONAL HEALTH AND SAFETY STANDARDS

- Crew startup induction / toolbox / safety meetings
- Sunday crew safety meeting
- Weekly Section head meetings
- Long sleeve shirts, covered footwear must be worn by field crew at all times
- Sunscreen, broad brimmed hat, sunglasses
- Reflective vests for all recording personnel working along roads
- Satellite Phone / VHF / UHF radios in recorder
- Functional VHF Radios fitted in all line vehicles
- Random drug and alcohol tests
- Vehicles fitted with First Aid & Snake Bite kits
- Road Signs
- Gloves to protect hands



APPENDIX D

TAPE LISTINGS

| Great Artesian Oil & Gas Ltd - Spinel 3D | | | | | | | |
|--|---------|------------|-----------|-------------|-------------|--------------------------------|---------------------------------------|
| Tape # | Swath | First FFID | Last FFID | First VP | Last VP | Date Recorded | Comments |
| 3A | 60-97 | 6416 | 12358 | 5300 / 2700 | 5300 / 2396 | 8th Jan 07 - 18th Jan 07 | |
| 2A | - | 900000 | 900070 | - | - | - | Test Files |
| | 1 to 59 | 1 | 6415 | 5732 / 2189 | 5324 / 2629 | 29th Jan 07 - 7th Feb 07 | Completed first panel |
| 4A | 97-119 | 12359 | 16451 | 5236 / 2389 | 5244 / 2227 | 19th Jan 07 - 18th Feb 07 | |
| 5A | 119-139 | 16452 | 19298 | 5244 / 2226 | 5276 / 2061 | 26th Feb 07 - 2nd March 07 | |
| 6A | 139-156 | 19299 | 21347 | 5268 / 2601 | 5244 / 1940 | 3rd March 07 - 6th March 07 | Duplicated File #'s 20410 - 20414 |
| | | | | | | | Panel 3 Completed. |
| 7A | 119-139 | 21348 | 24982 | 5092/2212 | 5140/2052 | 6th March 07 - 11th March 07 | Panel # 1 Completed |
| 8A | 186-219 | 24983 | 29661 | 5172/1828 | 5196/2069 | 11-March 2007 to 18-March 2007 | |
| 9A | 220-246 | 29662 | 34184 | 5188/2069 | 5156/2283 | 19-March 07 to 25-March 07 | Continue Panel 2 |
| 10A | 247-263 | 34185 | 36172 | 5156/2282 | 5124/2391 | 26-March 07 to 30-March 07 | Continue Panel 2 |
| 10A | 264-304 | 36173 | 42980 | 5124\2392 | 5212\2741 | 30-March to 9 April | Continue Panel 2 |
| 12A | 305-321 | 42981 | 46836 | 5220\2741 | 5300\2892 | 10-April to 15-April | Complete Panel 2 & Complete Spinel 3D |



APPENDIX E

END OF CONTRACT HSE REPORT



Health Safety & Environment

End of Contract Report Spinel 3D 23rd January - 16th April 2007

| | | | |
|------------------------|--|---|------------------------------|
| Client | Great Artesian Oil & Gas | HSE Advisor | Geoff Oswel / Sarah Anderson |
| Location | Cooper Basin, SA | Combined Personnel | 49 |
| Camp Site | 56 person Accommodation | BAC Tests Conducted | 340 |
| Camp Location | 90kms. NW of Moomba | Preliminary Drug Tests Conducted | 12 |
| Sub-Contractors | Terrex Contracting Dynamic Satellite Surveys Scanlon Drilling Velocity Data | Standard Operating Procedure Revisions | 10 |

Summary

| | | | |
|------------------|--|---------------|---|
| 23-January-2007 | Camp on stand-by due to rain & road closures | 03-March-2007 | Terrex Site induction for 1 new employee |
| 27-January-2007 | Camp move to Spinel 3D Survey | | Heat Stress Induction for 1 new employee |
| 27-January-2007 | Peter Timmer incident reported (see reports page) | 04-March-2007 | Conducted first aid training - Treatment of Snake Bite (ref: Safety Meeting mins - SPI070304) reports page |
| 28-January-2007 | Line Crew begin spread layout on Panel 4 Spinel 3D Site Specific Induction | | Heat Stress Induction for 1 DSS (Surveyors) employee |
| 30-January-2007 | Terrex Site Induction for 5 new employees Heat Stress Induction for 5 new employees | 07-March-2007 | Ken Matthews incident reported (see reports page) |
| 31-January-2007 | Lee-Ann Hunt incident reported (see reports page) | 08-March-2007 | Ken Matthews transported to Broken Hill by RFDS |
| 01-February-2007 | Terrex Site Induction for 3 new employees Heat Stress Induction for 3 new employees | 09-March-2007 | Crew Change - Re-inductions for 5 incoming personnel Terrex Site induction for 1 new employee (Field Crew) |
| 04-February-2007 | SOP training (Changing a wheel in the field) | | Heat Stress induction for 1 new employee |
| 05-February-2007 | Terrex Site Induction for 1 new employee (APM) Heat Stress Induction for 1 new employee (APM) | 11-March-2007 | Ken Matthews transported from Broken Hill to normal place of residence. |
| 06-February-2007 | De-pegging remainder of Neritus 3D Survey | 15-March-2007 | Conducted Fire Contingency Training |
| 09-February-2007 | Crew Change - Re-inductions for incoming personnel Terrex Site Induction for 1 new employee (Field Assistant) Heat Stress Induction for 1 new employee (Field Assistant) | | Chris Phillips incident reported (see reports page) |
| 11-February-2007 | Emergency Response Training (Attending a motor vehicle accident) | 16-March-2007 | Chris Phillips transported to BNE for a Dr. examination. |
| 13-February-2007 | Completed 6 monthly Electrical Test & Tag (BroadSpectrum) | 20-March-2007 | Crew Change - Re-inductions for 4 incoming personnel |
| 15-February-2007 | Crew Change - Re-inductions for 7 incoming personnel Terrex Site Induction for 2 old hands who returned | 22-March-2007 | Heat Stress induction for 1 new employee |
| 16-February-2007 | Heat Stress Induction for 2, as above, employees (Field Assistan | 23-March-2007 | Terrex Site induction for 1 new employee (Field Crew) |
| 17-February-2007 | DETEC Trainer arrives on site. (L Baas 4x4) | 27-March-2007 | Heat Stress induction for 1 new employee |
| 18-February-2007 | DETEC Training commences. 6 crew. DETEC Training continues 10 crew. | 29-March-2007 | Timothy Hill first aid incident (see reports page) |
| 19-February-2007 | First Aid Training (Laceration, Penetration & Burn) Doug Roberts Beach on site Ray Shaw & Chris Carty GAOG on site Steve Tobin Terrex on site | 30-March-2007 | Camp Move |
| | Terrex site induction for 1 old hand who returned | | Crew Change - Re-inductions for 8 incoming personnel |
| | Heat Stress Induction for 1, as above employee | 31-March-2007 | Crew put on stand-by until 12:30pm due to overnight rain. |
| | Shane Charles first aid incident reported (see reports page) | 01-April-2007 | Heat Stress induction for 2 new employees |
| 22-February-2007 | Heat Stress induction for 3 DSS personnel Crew Change - Re-inductions for incoming personnel | | Terrex Site induction for 2 new employees (Field Crew) |
| | Terrex Site induction for 4 new employees (Field Crew) | 02-April-2007 | Terrex Site induction for 1 new employee (Vibe Tech) |
| | Terrex Site induction for 1 new employee (Vibe Tech) | | Heat Stress Induction for 5 new, as above |
| | Heat Stress Induction for 1 Terrex Contracting | 04-April-2007 | Heat Stress Induction for 1 Terrex Contracting |
| 25-February-2007 | Terry Grocke in as Client representative | 05-April-2007 | Terrex Site induction for 1 new employee (Field Crew) |
| | Conducted fire drill & training (see Drills page) | 08-April-2007 | Heat Stress Induction for 1 new employee (Field Crew) |
| | Simon Feldheim incident reported (see reports page) | 12-April-2007 | Heat Stress Induction for 1 new employee (Field Crew) |
| 26-February-2007 | Simon Feldheim transported to normal place of residence for a Doctors examination. | 12-April-2007 | Heat Stress Induction for 1 new employee (Field Crew) |
| | Camp Move | 15-April-2007 | Heat Stress Induction for 1 new employee (Field Crew) |
| 28-February-2007 | Crew Change - Re-inductions for 7 incoming personnel | | Heat Stress Induction for 1 new employee (Field Crew) |
| 01-March-2007 | Terrex Site induction for 4 new employees (Field Crew) Terrex Site induction for 1 new employee (Kitchen) Heat Stress Induction for 5, as above employees | 16-April-2007 | Heat Stress Induction for 5, as above employees |

Medical Statistics

| Clinic Attendance | |
|-----------------------------------|-----------|
| Diarhoea / Nausea/ Vomiting | 1 |
| Non Specific | 2 |
| Ear / Nose / Throat | 1 |
| Ear | 2 |
| Muscular / Skeletal / Soft Tissue | 26 |
| Eye Irritation | 6 |
| Headaches | 3 |
| Gynaecological | 2 |
| Wound / Laceration / Dressing | 6 |
| Skin / Rash / Fungal | 6 |
| Dental | 2 |
| Burn | 4 |
| Heat Illness | 13 |
| Bites / Stings | 1 |
| Abdominal Pains | 3 |
| TOTAL | 78 |

Safety Statistics

| | |
|-------------------------------------|----------|
| Terrex Seismic Man-hours | 46356.00 |
| Sub-Contractor Man-hours | 13680.00 |
| Fatalities | 0 |
| LTI's | 0 |
| MTI's | 3 |
| Days since last MTI/LTI | 132 |
| First Aid Incidents | 4 |
| Incident / Accident Reports | 6 |
| Work Days Lost | 27 |
| Hazard Identification Reports | 18 |
| Training Hours | 921.00 |
| Tool Box / Safety Meeting Man-hours | 955.65 |
| Audits / Inspections | 936 |
| Drills | 2 |
| Land Spills (< 5 litres) | 0 |

Report compiled by: Geoff Oswel HSE

INCIDENT REPORT



| | | |
|---------------------------------|------------------------------------|-------------------------------|
| Prospect Spinel 3D | Event Time Approx 8.00am | Event Date 28/01/2007 |
| Client Great Artesian Oil & Gas | | Report Date 29/01/2007 |
| Name of Reporter Leeton McHugh | Position HSEM | Report # SPI070127 |

Details of Injured Person

| | | | |
|---|--|--|--|
| Given Names Peter | | Surname Timmer | |
| D.O.B. 24/12/1965 | <input checked="" type="checkbox"/> Male | <input type="checkbox"/> Female | |
| Basis of Employment | <input type="checkbox"/> Full time | <input checked="" type="checkbox"/> Casual | <input type="checkbox"/> Self-employed |
| <input type="checkbox"/> Member of public | | | |

Bodily location of injury or worked caused illness

Description Lower Back Pain

| Classification | Category | | | | Site |
|---|--|---|---------------------------------------|---|--|
| <i>Accident/Failure</i> | <i>Mechanism</i> | <i>Agency</i> | <i>Environmental</i> | <i>Other</i> | |
| <input type="checkbox"/> Fatality | <input type="checkbox"/> Health | <input type="checkbox"/> Light Vehicle | <input type="checkbox"/> Spill / Leak | <input type="checkbox"/> Equipment | <input type="checkbox"/> Field Location |
| <input type="checkbox"/> Lost Time Incident | <input type="checkbox"/> Work Related Injury / Illness | <input type="checkbox"/> Heavy Vehicle | <input type="checkbox"/> Disposal | <input type="checkbox"/> Assets | <input checked="" type="checkbox"/> Camp |
| <input type="checkbox"/> Dangerous Event | <input checked="" type="checkbox"/> Work Related | <input type="checkbox"/> Chemicals | <input type="checkbox"/> Fire | <input type="checkbox"/> Reputation | <input type="checkbox"/> Travelling |
| <input type="checkbox"/> First Aid | <input type="checkbox"/> Medical Treatment | <input type="checkbox"/> Animal / Biological | | <input checked="" type="checkbox"/> Manual Handling | <input type="checkbox"/> Hotel / Motel |
| <input type="checkbox"/> Lost | <input type="checkbox"/> Mental Stress | <input type="checkbox"/> Electrical / Power Tools | | | <input type="checkbox"/> Other (Explain) |
| | <input type="checkbox"/> Heat Stress | <input type="checkbox"/> Sound / Pressure | | | |

Description of Facts

On the morning of the 27th January 2007 at approximately 8.00am (Camp Move Day), Peter Timmer was moving various equipment around the trailer of his designated heavy vehicle. Peter had completed his task of loading and stacking equipment into the trailer then started to rope down the load when he felt a twinge in his lower back and felt some discomfort.

At this point the pain was only minor (2 on a scale from 1-10), no report was made at this time. Peter was the designated driver of a heavy vehicle that was towing a trailer, this vehicle was driven by Peter over 350 kms to arrive at the new campsite in the evening of the same day at approximately 6.30pm. When Peter arrived at the new campsite he immediately reported back pain to the Health & Safety Manager (Leeton McHugh). Peter was advised to rest and would be assessed in the morning.

The morning of the 28th January 2007 Peter was assessed by Health and Safety Manager (Leeton McHugh) and deemed fit for light duties. Peter was treated with a mild muscle relaxant cream and a heat bag. Peter will be assessed again on the 29th January 2007.

Weather Conditions / Visibility

Fine. Clear.

Corrective Action

For cases where no investigation is required, enter necessary corrective actions below

| Item No. | Action Item | Person Responsible | Target Date | Completion Date | Remarks |
|----------|--|--------------------|-------------|-----------------|---|
| 1 | Heat bag and mild muscle relaxant cream to be administered. | Leeton M | 28-Jan-07 | 28-Jan-07 | Completed. |
| 2 | Peter is to be returned to his normal place of residence for a full medical assessment by a Terrex preferred medical practitioner. | Leeton M | 29-Jan-07 | TBA | As soon as practicable. |
| 3 | Peter is required to gain a full medical clearance before returning to site. | Peter T | TBA | TBA | All Terrex employees are required to gain clearance before returning to site after medical treatment. |

INCIDENT REPORT



| | | |
|---------------------------------|------------------------------|-------------------------------|
| Prospect Spinel 3D Survey | Event Time 11.00am | Event Date 31/01/2007 |
| Client Great Artesian Oil & Gas | | Report Date 31/01/2007 |
| Name of Reporter Leeton McHugh | Position HSEM | Report # SPI070131 |

Details of Injured Person

| | |
|--------------------------|--|
| Given Names Lee-Ann | Surname Hunt |
| D.O.B. 10/12/1956 | Male <input type="checkbox"/> Female <input checked="" type="checkbox"/> |
| Basis of Employment | Full time <input type="checkbox"/> Casual <input checked="" type="checkbox"/> Self-employed <input type="checkbox"/> Member of public <input type="checkbox"/> |

Bodily location of injury or worked caused illness

Description Left side of lower back, left elbow and left knee

| Classification | Category | | | | Site |
|---|---|---|---------------------------------------|---|--|
| Accident/Failure | Mechanism | Agency | Environmental | Other | |
| <input type="checkbox"/> Fatality | <input type="checkbox"/> Health | <input type="checkbox"/> Light Vehicle | <input type="checkbox"/> Spill / Leak | <input type="checkbox"/> Equipment | <input type="checkbox"/> Field Location |
| <input type="checkbox"/> Lost Time Incident | <input checked="" type="checkbox"/> Work Related Injury / Illness | <input type="checkbox"/> Heavy Vehicle | <input type="checkbox"/> Disposal | <input type="checkbox"/> Assets | <input checked="" type="checkbox"/> Camp |
| <input type="checkbox"/> Dangerous Event | <input type="checkbox"/> Work Related Medical Treatment | <input type="checkbox"/> Chemicals | <input type="checkbox"/> Fire | <input type="checkbox"/> Reputation | <input type="checkbox"/> Travelling |
| <input type="checkbox"/> First Aid | <input type="checkbox"/> Mental Stress | <input type="checkbox"/> Animal / Biological | | <input checked="" type="checkbox"/> Steps | <input type="checkbox"/> Hotel / Motel |
| <input type="checkbox"/> Lost | <input type="checkbox"/> Heat Stress | <input type="checkbox"/> Electrical / Power Tools | | | <input type="checkbox"/> Other (Explain) |
| | | <input type="checkbox"/> Sound / Pressure | | | |

Description of Facts

The morning of Wednesday the 31st January 2007 at approximately 11.00am Lee-Ann Hunt was performing her normal work task of carrying cold food goods from the coldroom to the kitchen. As Lee-Ann stepped up the kitchen stairway she opened the door and tripped up the stairs into the kitchen, landing on the floor. The door had swung open suddenly as it was caught by a gust of wind; this caused Lee-Ann to lose balance and fall forward. Lee-Ann had one arm free to open the door and one arm holding the cold food goods.

Lee-Ann has injured her left knee, elbow and left lower back. Lee-Ann reported the incident to the HSE Manager and HSE Advisor on site immediately. Lee-Ann was assessed and found to be in a great deal of pain (8 on a scale of 1-10) it was also noticed that Lee-Ann displayed signs of distress. The HSE Advisor deemed her unfit to continue the day shift and recommended resting in her room immediately.

The HSE Advisor explained to Lee-Ann that he will re-assess her pain levels at approximately 12.00pm. At 12.00pm the HSE Advisor re-assessed Lee-Ann; on her request, she continued to rest in camp for a further 2 hours before making a final decision on transporting her to the Santos Moomba Health Care Centre for an examination by the resident RFDS representative.

At approximately 2.05pm the HSE Advisor discussed with Lee-Ann her injury status, the pain levels for her elbow, knee and back had subsided to a 4 (on a 1-10 scale). Lee-Ann has refused the request of Terrex HSE staff to be examined by a RFDS representative at the Santos Moomba Health Centre today.

Lee-Ann is due to go on her scheduled leave tomorrow. A full medical clearance by a Terrex preferred Medical Practitioner will be required before Lee-Ann is able to resume normal work duties.

Note: Lee-Ann was observed by the HSE staff and kitchen staff not wearing the appropriate footwear (she was wearing ugg boots) before and after the incident occurred.

Weather Conditions / Visibility

Fine with some wind gusts. Good.

Corrective Action

For cases where no investigation is required, enter necessary corrective actions below

| Item No. | Action Item | Person Responsible | Target Date | Completion Date | Remarks |
|----------|--|--------------------|-------------|-----------------|--|
| 1 | Assessment of injuries. | HSE Advisor | 31-Jan-07 | 31-Jan-07 | Initial assessment completed, follow-up by RFDS rep. |
| 2 | This report and details of the required medical clearance to be explained to Lee-Ann | HSE Advisor | 31-Jan-07 | 31-Jan-07 | Completed. |
| 3 | Awareness of steps and wind factor with the van doors presented to the crew | HSEM | 01-Feb-07 | 01-Feb-07 | Scheduled for toolbox meeting. |
| 4 | Inspection of all camp steps and hand rails | HSE Advisor | 01-Feb-07 | TBA | Will be sent to all parties. |

INCIDENT REPORT



| | | |
|---------------------------------|-------------------------------|----------------------------------|
| Prospect Spinel 3D | Event Time 1000 hrs | Event Date 25/02/2007 |
| Client Great Artesian Oil & Gas | | Report Date 26/02/2007 |
| Name of Reporter Geoff Oswell | Position HSE Advisor | Report # SPI070226 |

Details of Injured Person

| | | | |
|---|--|--|--|
| Given Names Simon Charles | | Surname Feldheim | |
| D.O.B. 19/07/1959 | <input checked="" type="checkbox"/> Male | <input type="checkbox"/> Female | |
| Basis of Employment | <input type="checkbox"/> Full time | <input checked="" type="checkbox"/> Casual | <input type="checkbox"/> Self-employed |
| Bodily location of injury or worked caused illness | | | |

Description Swelling and light bruising to left knee.

| Classification | Category | | | | Site |
|---|--|---|---------------------------------------|---|--|
| Accident/Failure | Mechanism | Agency | Environmental | Other | |
| <input type="checkbox"/> Fatality | <input type="checkbox"/> Health | <input checked="" type="checkbox"/> Light Vehicle | <input type="checkbox"/> Spill / Leak | <input checked="" type="checkbox"/> Equipment | <input checked="" type="checkbox"/> Field Location |
| <input type="checkbox"/> Lost Time Incident | <input type="checkbox"/> Work Related Injury / Illness | <input type="checkbox"/> Heavy Vehicle | <input type="checkbox"/> Disposal | <input type="checkbox"/> Assets | <input type="checkbox"/> Camp |
| <input checked="" type="checkbox"/> Dangerous Event | <input checked="" type="checkbox"/> Work Related | <input type="checkbox"/> Chemicals | <input type="checkbox"/> Fire | <input type="checkbox"/> Reputation | <input type="checkbox"/> Travelling |
| <input type="checkbox"/> First Aid | <input type="checkbox"/> Medical Treatment | <input type="checkbox"/> Animal / Biological | | | <input type="checkbox"/> Hotel / Motel |
| <input type="checkbox"/> Lost | <input type="checkbox"/> Mental Stress | <input type="checkbox"/> Electrical / Power Tools | | | <input type="checkbox"/> Other (Explain) |
| | <input type="checkbox"/> Heat Stress | <input type="checkbox"/> Sound / Pressure | | | |

Description of Facts

On the morning of Sunday 25th February 2007 Simon Feldheim and James Ansell were assigned to cable vehicle 092 IIU.

The role of the cable truckers is to pull on and throw off cable from either inside the cage or from the rear of a purpose built vehicle.

At approximately 1000 hours Simon was in the designated throw off position on the rear of the cable vehicle. He advised the driver (James Ansell) that he was ready to commence throwing off the cable.

James commenced to drive down the designated line.

Simon commenced to throw off the cable.

After about twenty meters the vehicle hit a small bump on the line.

Simon lost balance and fell from the designated throwing area on the rear tray of the vehicle.

The side safety bar of the designated throw off area had not been put in place in by Simon. (This is a standard safe practice for all cable truck personnel)

Simon landed heavily on his left side. Pain was immediately experienced in the left knee.

James assisted Simon and applied ice bricks and a crepe bandage to the knee.

Simon continued to work; however, he only drove for the rest of the day, except that, he threw off one load at about 1600hours.

Whilst in the field at about 1430 hours, Leeton McHugh (HSEM) came upon Simon's vehicle and was advised of the incident. Leeton re-banded the left knee and was informed by Simon that the pain levels were approx 3 out of 10 on scale of pain.

At approx 1830 hours Simon returned to camp. Ice packs were applied and the knee re-banded.

At approx 2350 hours Alan Stanley re-banded Simon's knee.

At approx 0645 hours on the 26th February Leeton and Brian Cater (APM) saw Simon to check on his condition. Simon reported that the knee was swollen and had difficulty with movement.

Simon was advised to rest and apply ice packs at intervals through out the day.

Arrangements for transportation to a doctor were initiated at approximately 1100 hours

At 1300 hours Simon was transported to Moomba for flight.

Weather Conditions / Visibility

Fine, warm and windy with wind increasing through the day.

Corrective Action

For cases where no investigation is required, enter necessary corrective actions below

| Item No. | Action Item | Person Responsible | Target Date | Completion Date | Remarks |
|----------|--|--------------------|-------------|-----------------|---|
| 1 | Elevation of left knee with cold pack and compression bandage | Brian C | 26-Feb-07 | 27-Feb-07 | Completed |
| 2 | Simon will be transported from site to place of residence for a doctors examination. | Jon T | 26-Feb-07 | 26-Feb-07 | Completed |
| 3 | Incident (safety bar) to be raised at Toolbox | Geoff O | 26-Feb-07 | 26-Feb-07 | Refer to toolbox mins SPI070226 |
| 4 | Revise SOP'S RC 013, 014, 023 | Geoff O | 30-Mar-07 | TBA | Add clause for ensuring all safety bars are secure and locked down. |
| 5 | Introduce a trial involving an indicator light on the vehicle dash to show when safety bar is not in place through the installation of a micro-switch on the safety bar. | Geoff O Ken M | 30-Mar-07 | TBA | Products to be sourced. |

INCIDENT REPORT



| | | | | | |
|------------------|--------------------------|------------|-------------|-------------|------------|
| Prospect | Spinel 3D | Event Time | | Event Date | 25/02/2007 |
| Client | Great Artesian Oil & Gas | | 1000 hrs | Report Date | 26/02/2007 |
| Name of Reporter | Geoff Oswell | Position | HSE Advisor | Report # | SPI070226 |

Photo's



Safety Bar Open



Safety Bar Closed

Vehicle 092 IIU

INCIDENT REPORT



| | | |
|---------------------------------|--------------------------------------|--------------------------------|
| Prospect Spinel 3D | Event Time 2245 hrs approx | Event Date 7/03/2007 |
| Client Great Artesian Oil & Gas | | Report Date 08/03/07 |
| Name of Reporter Geoff Oswell | Position HSE Advisor | Report # SPI070307 |

Details of Injured Person

| | | | |
|---|--|--|--|
| Given Names Kenneth James | | Surname Matthews | |
| D.O.B. 17/01/1961 | <input checked="" type="checkbox"/> Male | <input type="checkbox"/> Female | |
| Basis of Employment | <input type="checkbox"/> Full time | <input checked="" type="checkbox"/> Casual | <input type="checkbox"/> Self-employed |
| <input type="checkbox"/> Member of public | | | |

Bodily location of injury or worked caused illness

Description Snake bite to ankle of right leg.

| Classification | Category | | | | Site |
|---|--|---|---------------------------------------|-------------------------------------|--|
| Accident/Failure | Mechanism | Agency | Environmental | Other | |
| <input type="checkbox"/> Fatality | <input checked="" type="checkbox"/> Health | <input type="checkbox"/> Light Vehicle | <input type="checkbox"/> Spill / Leak | <input type="checkbox"/> Equipment | <input type="checkbox"/> Field Location |
| <input type="checkbox"/> Lost Time Incident | <input type="checkbox"/> Work Related Injury / Illness | <input type="checkbox"/> Heavy Vehicle | <input type="checkbox"/> Disposal | <input type="checkbox"/> Assets | <input checked="" type="checkbox"/> Camp |
| <input checked="" type="checkbox"/> Dangerous Event | <input type="checkbox"/> Work Related Medical Treatment | <input type="checkbox"/> Chemicals | <input type="checkbox"/> Fire | <input type="checkbox"/> Reputation | <input type="checkbox"/> Travelling |
| <input type="checkbox"/> First Aid | <input type="checkbox"/> Mental Stress | <input checked="" type="checkbox"/> Animal / Biological | | | <input type="checkbox"/> Hotel / Motel |
| <input type="checkbox"/> Lost | <input type="checkbox"/> Heat Stress | <input type="checkbox"/> Electrical / Power Tools | | | <input type="checkbox"/> Other (Explain) |
| | | <input type="checkbox"/> Sound / Pressure | | | |

Description of Facts

At approximately 2310 hrs on Wednesday 7th. March 2007 Ken Matthews; when nearing his accommodation van, on returning from the showers, stood on a small snake (type unknown).
 He felt something hit his leg and then saw a snake.
 Ken called to Arnold McKenna (known as Mick) to come and get a hold of this.
 Mick; an experienced bush man and former snake catcher, caught and removed the snake from camp.
 The snake was thought to be a Taipan or Brown.
 Ken continued walking to his van, entered and lay down on the bed.
 At this stage he was unaware that he had been bitten.
 Ken Matthews shares a van room (1 TIL 664) with Mick McKenna.
 Mick McKenna went and showered.
 On Mick's return from the shower, approximately some fifteen minutes later, Ken advised Mick that - it may have got me.
 Mick inspected the ankle area on Ken's right leg and noticed a slight puncture wound.
 Mick immediately called Alan Stanley (an ex ambulance officer) who is in the next room.
 Alan Stanley inspected the bite and immediately commenced the appropriate snake bite treatment and observations.
 Mick advised Geoff Oswell.
 At 2330 hrs Geoff saw that Alan had the situation under control and contacted the RFDS Moomba.
 At approx 2350 hrs. Ken was placed in the rear of the Terrex Ambulance; attended by Alan and driven by Jon Turner to the arranged rendezvous point to meet the RFDS Ambulance from Moomba.
 A back up vehicle driven by Mick and accompanied by Geoff, followed.
 At 0039 hrs. on Thursday 8th. rendezvous with RFDS representatives.
 Ken transferred to the RFDS Ambulance.
 At about 0400 hrs. Ken medivac to Broken Hill Hospital by RFDS Air Ambulance.
 At about 0745 hrs Geoff advised by Broken Hill Hospital that Ken was in a stable and comfortable condition. Blood tests had been taken and that they were awaiting the results.
 At about 1045 hrs Jon Turner was advised via Head Office that Ken is to be discharged from hospital this morning.

Weather Conditions / Visibility

Fine night , slight breeze. Dark as moon late to rise.
 Van Light on and working.

Corrective Action

For cases where no investigation is required, enter necessary corrective actions below

| Item No. | Action Item | Person Responsible | Target Date | Completion Date | Remarks |
|----------|--|--------------------|-------------|-----------------|-----------------|
| 1 | Treatment of Snake Bite topic at Safety Meeting 04-03-07 | | | | Prior to event. |
| 2 | Discussed at Toolbox 08-03-07 | PM | 8/03/2007 | 8/03/2007 | Completed |
| 3 | Insert warning in induction & re-induction file. | HSE | 8/03/2007 | 8/03/2007 | Completed |

| DATE | NAME | COMPLAINT | COMMENTS | TREATMENT OR MEDICATION | CODE | FAC | MTI | UNFIT FOR DUTY | RFDS REFERRAL | MEDEVAC |
|--------------------------------|--|------------|--|--|------|-----|-----|----------------|---------------|---------|
| 07-Mar-07 | Ken Matthews | Snake Bite | 2310 hrs approx. stood on snake. | Initially did not realize that had been bitten. | B/S | | Yes | No | Yes | Yes |
| | | | 2325 hrs approx. Ken realised that had been bitten by snake. | Mick McKenna inspected leg. Found slight puncture wound. | | | | | | |
| | | | 2326 hrs approx. See to by Alan Stanley | Commenced appropriate snake bite treatment and observations | | | | | | |
| | | | 2350 hrs approx. | Placed in T/S ambulance for transportation to rendezvous with RFDS ambulance | | | | | | |
| 08-Mar-07 | Ken Matthews | Snake Bite | 0039 hrs 08-03-07 | Rendezvous with RFDS ambulance. Medivac to Moomba. | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| CLINIC ATTENDANCE CODES | | | | | | | | | | |
| BURN | Burns | URTI | Colds, Influenza type symptoms | | | | | | | |
| BACK | Back Injury | UTI | Urinary Tract Infection | | | | | | | |
| B/S | Bites & Stings | WND | Wound Care: Lacerations, Dressings, Suture removal | | | | | | | |
| DENT | Dental: All dental conditions | AMBO | Call out | | | | | | | |
| EAR | Ear Infections, injuries | I | Initial Presentation for condition | | | | | | | |
| FRAC | Fractures | PREV | Preventative action. | | | | | | | |
| GIT | GIT: Diarrhoea, Nausea, Vomiting | CON | Constipation | | | | | | | |
| GIT | GIT: Diarrhoea, Nausea, Vomiting | R | Review of condition | | | | | | | |
| HEAD | Headaches | | | | | | | | | |
| HEAT | Heat Illness | RFDS | Royal Flying Doctors Referral | | | | | | | |
| MISC | Non specific | FAC | First Aid Condition | | | | | | | |
| MUSC | Muscular Skeletal: Soft tissue injury, Sprain/Strain | MTI | Medically treated condition. | | | | | | | |
| SKIN | Skin Conditions: Rash, Fungal Infection | LTI | Loss Time Incident | | | | | | | |

INCIDENT REPORT



| | | |
|--|--------------------------------------|--------------------------------|
| Prospect Spinel 3D | Event Time around 1159 hrs | Event Date 7/03/2007 |
| Client Great Artesian Oil & Gas | | Report Date 13/03/07 |
| Name of Reporter Geoff Oswell | Position HSE Advisor | Report # SPI070307 |

Details of Injured Person

| | | | |
|--------------------------------------|--|--|---|
| Given Names Christopher Aaron | | Surname Phillips | |
| D.O.B. 13/07/1983 | <input checked="" type="checkbox"/> Male | <input type="checkbox"/> Female | |
| Basis of Employment | <input type="checkbox"/> Full time | <input checked="" type="checkbox"/> Casual | <input type="checkbox"/> Self-employed |
| | | <input type="checkbox"/> | <input type="checkbox"/> Member of public |

Bodily location of injury or worked caused illness

Description **Left leg - Achilles tendon area - Rear of leg - from ankle to knee**

| Classification | Category | | | | Site |
|---|--|---|---------------------------------------|-------------------------------------|--|
| <i>Accident/Failure</i> | <i>Mechanism</i> | <i>Agency</i> | <i>Environmental</i> | <i>Other</i> | |
| <input type="checkbox"/> Fatality | <input type="checkbox"/> Health | <input type="checkbox"/> Light Vehicle | <input type="checkbox"/> Spill / Leak | <input type="checkbox"/> Equipment | <input checked="" type="checkbox"/> Field Location |
| <input type="checkbox"/> Lost Time Incident | <input type="checkbox"/> Work Related Injury / Illness | <input type="checkbox"/> Heavy Vehicle | <input type="checkbox"/> Disposal | <input type="checkbox"/> Assets | <input type="checkbox"/> Camp |
| <input checked="" type="checkbox"/> Dangerous Event | <input checked="" type="checkbox"/> Work Related Medical Treatment | <input type="checkbox"/> Chemicals | <input type="checkbox"/> Fire | <input type="checkbox"/> Reputation | <input type="checkbox"/> Travelling |
| <input type="checkbox"/> First Aid | <input type="checkbox"/> Mental Stress | <input type="checkbox"/> Animal / Biological | | | <input type="checkbox"/> Hotel / Motel |
| <input type="checkbox"/> Lost | <input type="checkbox"/> Heat Stress | <input type="checkbox"/> Electrical / Power Tools | | | <input type="checkbox"/> Other (Explain) |
| | | <input type="checkbox"/> Sound / Pressure | | | |

Description of Facts

On the morning of Wednesday 7th of March 2007 Chris Phillips was a member of one of two "Back Crews". The role of the "Back Crew" is to pick up (known as slothing) the geophones. To sloth (pick up), you walk alongside the receiver lines; tracks that have been made usually by a dozer through the seismic prospect, picking up the geophones that are attached to a cable and placing them on a large safety pin like hanger, called a hasp, slung across your shoulders.

At about noon on Wednesday 7th March; whilst slothing, Chris's right foot broke through the ground surface into a rabbit burrow, to about the depth of his knee and stumbled forward. At the time he was not aware that he had injured himself.

At approx 1845 hours, that day, Chris reported to Geoff Oswell HSE that his Left leg was sore was in the achilles tendon area, from the ankle up to the knee and that it felt like it was cramping up. No mention was made of the fact that his foot/part leg had gone into a rabbit burrow. A simple exercise was suggested.

On Thursday 8th March at approximately 0610 hours Geoff enquired as to the condition of the leg. Chris advised that it was still sore but wanted to go to work.

During the morning the pain continued and Chris asked Alan Stanley (a back crew member and ex ambulance officer) to have a look at his leg. Alan applied Dencorub and strapped his ankle.

On Friday 9th March Chris was taken to Moomba for examination by a RFDS Representative.
Recommendation:- Alternative duties (non weight bearing) Driving OK

On 10th March Chris assigned light duties around camp.

On 11th March, whilst assisting the Supply Driver, called in to the RFDS Moomba clinic for further examination. Given crutches and told to keep weight off leg.

On 12th March assigned light duties around camp. Took breaks when pain increased.

On 13th March Chris was taken to Moomba for examination by a RFDS Doctor.
Recommendation:- Chris be transported from site to place of residence for X-Rays & Ultra Sound treatment.

On 14th March Chris had complete rest.

On 15th March Chris transported, by crew change plane, to Brisbane.

INCIDENT REPORT



| | | |
|--|--------------------------|---------------------------|
| Prospect Spinel 3D | Event Time | Event Date 07/03/07 |
| Client Great Artesian Oil & Gas | Around 1159 hours | Report Date 13/03/07 |
| Name of Reporter Geoff Oswell | Position HSE Advisor | Report # SPI070307 |

Weather Conditions / Visibility

Fine and hot. Slightly windy

Corrective Action

For cases where no investigation is required, enter necessary corrective actions below

| Item No. | Action Item | Person Responsible | Target Date | Completion Date | Remarks |
|----------|---|--------------------|-------------|-----------------|--|
| 1 | Advised to watch out for Rabbit holes | Jan Crossie | 08/03/07 | 8/03/07 | Jan raised issue of rabbit holes at toolbox. Unaware of Chris' injury. |
| 2 | Dencorub cream applied & crepe bandage applied to ankle/foot | Alan Stanley | 8/03/07 | 8/03/07 | Completed. |
| 3 | Taken to Moomba for examination by RFDS rep | JT | 9/03/07 | 9/03/07 | Completed. Light duties prescribed. |
| 4 | Taken to Moomba for examination by RFDS rep. | S Walker | 11/03/07 | 11/03/07 | Completed. Given crutches. |
| 5 | Taken to Moomba for examination by RFDS doctor. | Sarah A | 13/03/07 | 13/03/07 | Advised should be returned to place of residence for X-Rays & Ultra Sound. |
| 6 | Transported to Brisbane, by Crew Change plane, so can arrange to have X-Rays and Ultra Sound. | M Kneipp | 15/03/07 | 15/03/07 | Completed. |
| 7 | Reporting of injuries to be raised at Toolbox. | Geoff O | 16/03/07 | 16/03/07 | Completed. |
| 8 | Note to be included in Induction/ Re-Induction file. | Geoff O | 16/03/07 | 16/03/07 | Completed. |

INCIDENT REPORT



| | | |
|---------------------------------------|------------------------------|------------------------------|
| Prospect Spinel 3D | Event Time 11:00pm | Event Date 2/04/2007 |
| Client GAOG | | Report Date 3/04/2007 |
| Name of Reporter Leeton McHugh | Position | Report # SPI070402 |

Details of Injured Person

| | | | |
|---|--|--|--|
| Given Names David | | Surname James | |
| D.O.B. 12/06/1966 | <input checked="" type="checkbox"/> Male | <input type="checkbox"/> Female | |
| Basis of Employment | <input type="checkbox"/> Full time | <input checked="" type="checkbox"/> Casual | <input type="checkbox"/> Self-employed |
| <input type="checkbox"/> Member of public | | | |

Bodily location of injury or worked caused illness

Description **Suspected snake bite to the right foot on the big toe.**

| Classification | Category | | | | Site |
|---|---|---|---------------------------------------|-------------------------------------|--|
| Accident/Failure | Mechanism | Agency | Environmental | Other | |
| <input type="checkbox"/> Fatality | <input type="checkbox"/> Health | <input type="checkbox"/> Light Vehicle | <input type="checkbox"/> Spill / Leak | <input type="checkbox"/> Equipment | <input type="checkbox"/> Field Location |
| <input type="checkbox"/> Lost Time Incident | <input type="checkbox"/> Work Related Injury / Illness | <input type="checkbox"/> Heavy Vehicle | <input type="checkbox"/> Disposal | <input type="checkbox"/> Assets | <input checked="" type="checkbox"/> Camp |
| <input checked="" type="checkbox"/> Dangerous Event | <input type="checkbox"/> Work Related Medical Treatment | <input type="checkbox"/> Chemicals | | <input type="checkbox"/> Reputation | <input type="checkbox"/> Travelling |
| <input type="checkbox"/> First Aid | <input type="checkbox"/> Mental Stress | <input checked="" type="checkbox"/> Animal / Biological | | | <input type="checkbox"/> Hotel / Motel |
| <input type="checkbox"/> Lost | <input type="checkbox"/> Heat Stress | <input type="checkbox"/> Electrical / Power Tools | | | <input type="checkbox"/> Other (Explain) |
| | | <input type="checkbox"/> Sound / Pressure | | | |

Description of Facts

- On Monday the 2nd April 2007 at approximately 11:00pm Dave James received a suspected snake bite to his right foot on the big toe.
- At 11:01pm the site HSE Manager was notified of the incident and immediately applied bandaging to the entire limb with a splint to immobilise. At this point the suspected bite was examined by the HSE Manager and a conclusion was drawn that two small puncture wounds that were bleeding could very well be a snake bite.
- At 11:03pm the Santos Health Centre was contacted by satellite phone to inform the rostered RFDS nurse of the event and organise a suitable medivac point. The Jack Lake turn off was decided to be suitable for the Terrex ambulance and Santos ambulance to meet.
- At 11:05pm Dave James was lifted onto a stretcher and loaded into the rear of the crew ambulance then transported to the rendezvous point approximately 50kms from the Santos Moomba facility.
- At 11:10pm Leeton McHugh (HSEM) conducted a radio check with Mark Kneipp (Party Manager) at base camp to confirm comms and then began the journey, David Lynch volunteered to accompany David in the rear of the Terrex ambulance as support and a monitor of David's condition.
- At 12:15am the Terrex ambulance and Santos ambulance met each other at the Gidgealpa Gas turn off approximately 20kms from Moomba.
- At 12:30pm Moomba Comms called Terrex Base Camp and informed Mark Kneipp of the two vehicles meeting.
- At 1:40am Leeton McHugh and David Lynch returned to Base Camp.
- At 6:16am Leeton McHugh contacted the Santos Health Centre and was informed that David James had been taken by air to Broken Hill Hospital for observation.
- At 6:18am Leeton McHugh contacted Broken Hill Hospital and asked of David's condition. Informed that the RFDS plane had not yet arrived in Broken Hill and that it could be 2-3hrs before David arrives at the hospital.
- At 1:00pm Leeton McHugh contacted Broken Hill Hospital and spoke to David James. Informed by David himself that the doctors could not be sure if the wounds on his toe were that of a snake. David also informed me that he was in good health and would most likely be discharged from hospital with in the next 10hrs.

Note. Arrangements have been made for David to overnight in Broken Hill.

Corrective Action

For cases where no investigation is required, enter necessary corrective actions below

| Item No. | Action Item | Person Responsible | Target Date | Completion Date | Remarks |
|----------|------------------------------------|--------------------|-------------|-----------------|------------------------------|
| 1 | Crew awareness of snakes near camp | Leeton McHugh | 03-Apr-07 | 03-Apr-07 | Completed. Toolbox SPI070403 |

INCIDENT REPORT



| | | | | |
|------------------|---------------|------------|-------------|-----------|
| Prospect | Spinel 3D | Event Time | Event Date | 2/04/2007 |
| Client | GAOG | 11:00pm | Report Date | 3/04/2007 |
| Name of Reporter | Leeton McHugh | Position | Report # | SPI070402 |

Emergency Log Sheet

TERREX SEISMIC CREW EMERGENCY PROCEDURES & SITE SPECIFIC PLAN



4 LOG SHEETS

4.1 EMERGENCY LOGSHEET

DATE: 2/04/07 Monday

LOG KEEPER: M. KINGIPP TYPE OF EMERGENCY: SNAKEBITE

| TIME | EVENT |
|---------|--|
| 11:00pm | PM Notified by A. Cabot. |
| 11:05 | loaded into truck on stretcher |
| 11:10 | left camp via HSE Amba (staffy + Leeton) |
| 11:18 | called Moomba Nurse (Chris) for update of Ambulance. |
| 12:30 | Moomba Comms Called, confirmed meeting @ Jack Lake turnoff |
| 1:40 | HSE Returns to camp |
| 6:16am | Contacted RFDs Moomba - told Dave had been air med/ventilated to Broken Hill Hospital as a precaution. |
| 6:18am | Contacted Broken Hill hospital - told the plane + Dave had not arrived as yet. Try back in 2 hrs. |
| 1:00pm | Contacted Broken Hill Hospital to follow-up on Dave's condition. - Was informed by Dave himself that the doctors could not be sure if the marks on his toe were that of a snake. Dave told me he was in good health and would most likely be dis-charged from hospital in the next 10 hrs. |
| | Note: Arrangements have been made for Dave to overnight in Broken Hill. |

INCIDENT REPORT



| | | |
|---|-----------------------|------------------------------|
| Prospect Spinel 3D Survey | Event Time | Event Date 19/02/2007 |
| Client Great Artesian Oil & Gas | Approx 10.00am | Report Date 19/02/07 |
| Name of Reporter Geoff Oswell & Leeton McHugh | Position HSE | Report # SPIO070219 |

Details of Injured Person

| | | | |
|---------------------|------------------------------------|--|--|
| Given Names Shane | | Surname Charles | |
| D.O.B. 18/11/1965 | Male <input type="checkbox"/> | Female <input checked="" type="checkbox"/> | |
| Basis of Employment | Full time <input type="checkbox"/> | Casual <input checked="" type="checkbox"/> | Self-employed <input type="checkbox"/> Member of public <input type="checkbox"/> |

Bodily location of injury or worked caused illness

Description

| Classification | Category | | | | Site |
|---|---|---|---------------------------------------|-------------------------------------|--|
| Accident/Failure | Mechanism | Agency | Environmental | Other | |
| <input type="checkbox"/> Fatality | <input type="checkbox"/> Health | <input type="checkbox"/> Light Vehicle | <input type="checkbox"/> Spill / Leak | <input type="checkbox"/> Equipment | <input checked="" type="checkbox"/> Field Location |
| <input type="checkbox"/> Lost Time Incident | <input checked="" type="checkbox"/> Work Related Injury / Illness | <input type="checkbox"/> Heavy Vehicle | <input type="checkbox"/> Disposal | <input type="checkbox"/> Assets | <input type="checkbox"/> Camp |
| <input type="checkbox"/> Dangerous Event | <input type="checkbox"/> Work Related Medical Treatment | <input type="checkbox"/> Chemicals | <input type="checkbox"/> Fire | <input type="checkbox"/> Reputation | <input type="checkbox"/> Travelling |
| <input checked="" type="checkbox"/> First Aid | <input type="checkbox"/> Mental Stress | <input type="checkbox"/> Animal / Biological | | | <input type="checkbox"/> Hotel / Motel |
| <input type="checkbox"/> Lost | <input type="checkbox"/> Heat Stress | <input type="checkbox"/> Electrical / Power Tools | | | <input type="checkbox"/> Other (Explain) |
| | | <input type="checkbox"/> Sound / Pressure | | | |

Description of Facts

On the morning of the 19th February 2007 Shane was a member of the Back Crew. Back Crew are responsible for slothing the geophones and dragging out the cable when the cable vehicles are unable to drive along the line. On this morning they were slothing Line 2428 and came upon the dry but soft salt lake on this line. (Line 2428 between stations approx. 5180 and 5224. There is also a sand peninsula on the line at station approx 5208 to 5214). Shane on reaching the edge of the salt lake removed his work boots and performed the drag out function bare foot (in breach of Terrex Standard Operating Procedure for Back Crew). On reaching the middle of the salt lake Shane felt his feet burning, but at the half way mark continued to drag out the cable.

At approximately 1000 hours the Line Boss radioed in requesting that the fire/water trailer be taken out to the salt lake area so that line crew could wash after completing the salt lake functions.

G. Oswell (HSE) proceeded to and did take the fire/water trailer to the salt lake area. He and office staff were unaware of Shane's predicament at this point.

Warren Campbell (Line Boss) saw Shane working without boots and immediately ordered him off the salt lake. Karen Turner (Back crew field assistant) on return to her vehicle had Shane place his legs and feet in their water gott. The gott contained potable water and ice.

At approx. 1030 hours G. Oswell arrived at the fence line to the east of the salt lake and was advised that Shane had burning feet.

Shane was brought to G.Oswell's vehicle and he continued with the appropriate flushing of Shane's legs and feet. At approximately 1100 hours, the pain levels in his feet had subsided, Shane was transported back to Camp by G.Oswell.

Upon return to Camp, Shane was seated outside a shower stall, his feet and legs were placed in the shower and the shower turned on to continue the flushing of his legs and feet.

The flushing continued until approximately 1210 hours when Shane was transported to Moomba RFDS clinic. At approximately 1315 hours Shane was examined by a RFDS representative and given light bandaging of both feet. Shane remained at the RFDS clinic overnight under observation.

Comments from the RFDS Rep were :The burns had been treated correctly by Terrex staff and a recovery period would be less than 24hrs.

Shane will be able to resume light duties on the 20th Feb 2007.

Weather Conditions / Visibility

Weather Fine and hot slightly over cast

Corrective Action

For cases where no investigation is required, enter necessary corrective actions below

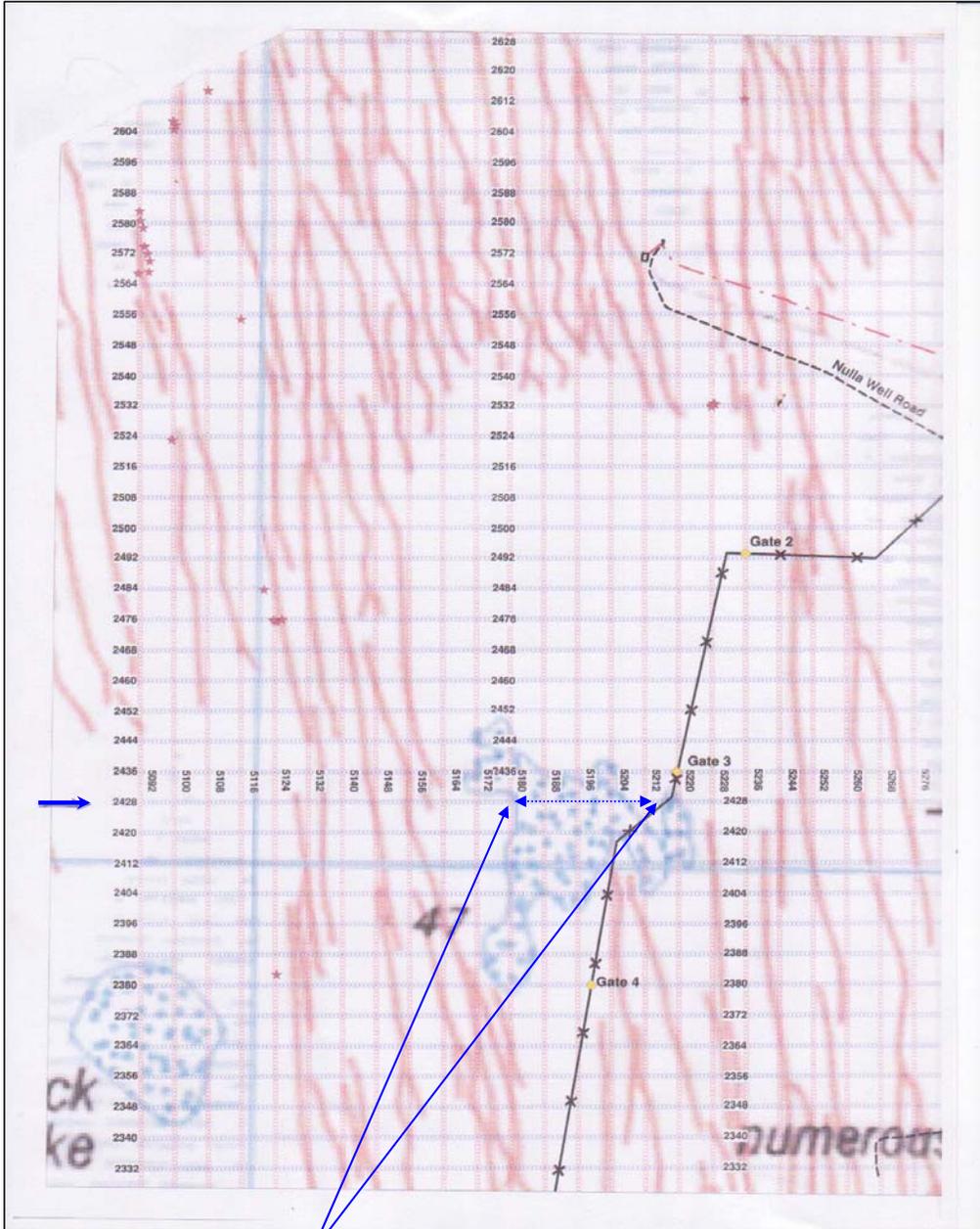
| Item No. | Action Item | Person Responsible | Target Date | Completion Date | Remarks |
|----------|---|--------------------|-------------|-----------------|---|
| 1 | Raise at Toolbox 20-02-07 | HSE Advisor | 20-Feb-07 | 20-Feb-07 | Completed |
| 2 | Insert warning in Induction and re-induction file | HSE Advisor | 20-Feb-07 | 20-Feb-07 | Completed |
| 3 | Follow-up on Shane Charles' condition | HSE Advisor | 20-Feb-07 | 20-Feb-07 | Shane returned to the crew and was given light duties for the 20-Feb-07. He has been given approval from the Moomba RFDS rep to resume his normal work duties on the 21-Feb-07. |

INCIDENT REPORT



| | | | | | |
|------------------|------------------------------|------------|----------------|-------------|------------|
| Prospect | Spinel 3D Survey | Event Time | | Event Date | 19/02/2007 |
| Client | Great Artesian Oil & Gas | | Approx 10.00am | Report Date | 19/02/07 |
| Name of Reporter | Geoff Oswell & Leeton McHugh | Position | HSE HSEM | Report # | SPIO070219 |

Location of Salt Lake



Hand Carry Section Receiver 2428 / Source 5180-5221

INCIDENT REPORT



| | | |
|---------------------------------|-------------------------------|---------------------------------|
| Prospect Spinel 3D | Event Time 0800 hrs | Event Date 23/03/2007 |
| Client Great Artesian Oil & Gas | | Report Date 23/03/2007 |
| Name of Reporter Sarah Anderson | | Report # SPI070323 |

Details of Injured Person

| | | | |
|---|--|--|--|
| Given Names Timothy | | Surname Hill | |
| D.O.B. 12/09/1970 | <input checked="" type="checkbox"/> Male | <input type="checkbox"/> Female | |
| Basis of Employment | <input type="checkbox"/> Full time | <input checked="" type="checkbox"/> Casual | <input type="checkbox"/> Self-employed |
| <input type="checkbox"/> Member of public | | | |

Bodily location of injury or worked caused illness

Description Cut to the top of the right hand

| Classification | Category | | | | Site |
|---|---|---|---------------------------------------|-------------------------------------|--|
| Accident/Failure | Mechanism | Agency | Environmental | Other | |
| <input type="checkbox"/> Fatality | <input type="checkbox"/> Health | <input checked="" type="checkbox"/> Light Vehicle | <input type="checkbox"/> Spill / Leak | <input type="checkbox"/> Equipment | <input checked="" type="checkbox"/> Field Location |
| <input type="checkbox"/> Lost Time Incident | <input checked="" type="checkbox"/> Work Related Injury / Illness | <input type="checkbox"/> Heavy Vehicle | <input type="checkbox"/> Disposal | <input type="checkbox"/> Assets | <input type="checkbox"/> Camp |
| <input type="checkbox"/> Dangerous Event | <input type="checkbox"/> Work Related Medical Treatment | <input type="checkbox"/> Chemicals | <input type="checkbox"/> Fire | <input type="checkbox"/> Reputation | <input type="checkbox"/> Travelling |
| <input checked="" type="checkbox"/> First Aid | <input type="checkbox"/> Mental Stress | <input type="checkbox"/> Animal / Biological | | | <input type="checkbox"/> Hotel / Motel |
| <input type="checkbox"/> Lost | <input type="checkbox"/> Heat Stress | <input type="checkbox"/> Electrical / Power Tools | | | <input type="checkbox"/> Other (Explain) |
| | | <input type="checkbox"/> Sound / Pressure | | | |

Description of Facts

On the morning of Friday 23rd of March 2007, Timothy Hill and Julien Bastien were assigned to cable vehicle 801-JMJ. The role of cable truckers is to pull on or throw off cable from either the cage or from the rear of a purpose built vehicle. At Approximately 0800 hours, Julien and Timothy had just finished throwing off transverse cable at 164 between lines 12 & 20. Timothy Hill was in the designated throw off position in the rear of the stationary vehicle. As he jumped off of the back of the vehicle he had his right hand resting on the bar support guide (this is where the safety bar sits when in the down position). Timothy's recollection of the incident is he either bumped or grabbed the safety bar, which brought it down onto the top of his hand, slicing it open along the back of his hand and across his middle knuckle. Julien Bastien immediately bandaged Timothy's hand up and drove him to the dog box. The dog box notified base camp of the incident at 0815 hours. The HSE Dept was informed at 0830 hours. At approximately 0835, Timothy was transported to base camp by Line Boss Alyx Capper. At approximately 0845, Timothy arrived at Base Camp and was taken to the HSE Office. HSE Manager Leeton McHugh cleaned and redressed the wound. An ice pack was applied and his arm was placed in a triangular bandage for elevation. At approximately 0900, Leeton and Timothy departed camp for the Moomba Medical Centre. At approximately 1030, Leeton McHugh contacted Base Camp and informed Mark Kneipp (Crew Manager) that Timothy received 8 stitches to his cut and was given permission by the RFDS representative to return to camp and resume light duties. Timothy is required to return to the Moomba Medical Centre on Sunday 25th March 2007 for a check up of the wound. Timothy will continue light duties for the remainder of is scheduled roster (29th March 2007).
Note: *Jumping off the back of vehicles is in breach of Terrex Policy.*

Weather Conditions / Visibility

Fine, warm and windy.

Corrective Action

For cases where no investigation is required, enter necessary corrective actions below

| Item No. | Action Item | Person Responsible | Target Date | Completion Date | Remarks |
|----------|--|--------------------|-------------|-----------------|--|
| 1 | Transport Timothy to Moomba Medical Centre for immediate medical attention. (Received 8 stitches in wound, discharged from Moomba Medical Centre) | LM | 23-Mar-07 | 23-Mar-07 | Completed |
| 2 | Has been placed on light duties for 48 hours. | LM | 23-Mar-07 | 25-Mar-07 | Timothy will remain on light duties until his scheduled leave (29/03/07) |
| 3 | Inspection of vehicle, examining the safety bar for sharp edges and loose hinge. | LM | 23-Mar-07 | 23-Mar-07 | See vehicle inspection report (pg2) |
| 4 | Crew discussion of incident (reinforce stepping & handling guidelines) & implement a requirement for all cable/jug personnel to wear gloves when performing their tasks. | LM | 24-Mar-07 | 24-Mar-07 | See toolbox mins (SPI070324) |

INCIDENT REPORT



| | | |
|--|----------------------------|-------------------------------|
| Prospect Spinel 3D | Event Time 0800 hrs | Event Date 23/03/2007 |
| Client Great Artesian Oil & Gas | | Report Date 23/03/2007 |
| Name of Reporter Sarah Anderson | | Report # SPI070323 |

Vehicle Inspection Reports

Daily Vehicle Checklist No. **12308**

Drivers Name: Julien Bastien

Vehicle ID: 801 JMS Date: 23/03/07

Next Service Due 9/1/96 kms

Check for new obstacles which may have appeared whilst vehicle parked.

| | |
|---|--|
| Oil, Water, Coolant on ground under vehicle <input checked="" type="checkbox"/> | Specific Problem – please give details |
| Vehicle Panel Condition <input checked="" type="checkbox"/> | |
| Cracked/indicators or lights broken <input checked="" type="checkbox"/> | |
| Tyre Condition/Pressure/Spare <input checked="" type="checkbox"/> | |
| Fire Extinguisher – Dry Powder (ABE)/Water <input checked="" type="checkbox"/> | |
| Shovel/Fire Rake <input checked="" type="checkbox"/> | |

Under Bonnet & Fluid Levels

| | | |
|--|--|--|
| Oil Level <input checked="" type="checkbox"/> | Coolant Level <input checked="" type="checkbox"/> | |
| Clutch Reservoir <input checked="" type="checkbox"/> | Brake Reservoir <input checked="" type="checkbox"/> | |
| P/Steering <input checked="" type="checkbox"/> | W/Screen Washer Tank <input checked="" type="checkbox"/> | |
| Fan Belt Tension <input checked="" type="checkbox"/> | Battery Security <input checked="" type="checkbox"/> | |

Inside Vehicle/Startup

| | | |
|---|---|--|
| Tyre Changing Equipment <input checked="" type="checkbox"/> | Wheel Brace <input checked="" type="checkbox"/> | |
| Jack/Handle <input checked="" type="checkbox"/> | Complete Radio Check <input checked="" type="checkbox"/> | |
| Drinking Water <input checked="" type="checkbox"/> | Snake Bite Kit <input checked="" type="checkbox"/> | |
| First Aid Kit <input checked="" type="checkbox"/> | Lights & Indicators (internal & external) <input checked="" type="checkbox"/> | |
| Check Instruments and Fuel Levels <input checked="" type="checkbox"/> | Other <input type="checkbox"/> | |
| Seat Belt Condition/Operation <input checked="" type="checkbox"/> | | |

Comments: grinding gear

Signature: [Signature]

Daily Vehicle Checklist No. **12351**

Drivers Name: LEETON MCHUGH

Vehicle ID: 801 JMS Date: 23/03/07

Next Service Due _____ kms

Check for new obstacles which may have appeared whilst vehicle parked.

| | |
|--|--|
| Oil, Water, Coolant on ground under vehicle <input type="checkbox"/> | Specific Problem – please give details |
| Vehicle Panel Condition <input type="checkbox"/> | <u>DRIVER'S SIDE - SAFETY</u> |
| Cracked/indicators or lights broken <input type="checkbox"/> | <u>BAR & GUIDE SUPPORT.</u> |
| Tyre Condition/Pressure/Spare <input type="checkbox"/> | |
| Fire Extinguisher – Dry Powder (ABE)/Water <input type="checkbox"/> | |
| Shovel/Fire Rake <input type="checkbox"/> | |

Under Bonnet & Fluid Levels

| | | |
|---|---|--|
| Oil Level <input type="checkbox"/> | Coolant Level <input type="checkbox"/> | |
| Clutch Reservoir <input type="checkbox"/> | Brake Reservoir <input type="checkbox"/> | |
| P/Steering <input type="checkbox"/> | W/Screen Washer Tank <input type="checkbox"/> | |
| Fan Belt Tension <input type="checkbox"/> | Battery Security <input type="checkbox"/> | |

Inside Vehicle/Startup

| | | |
|--|--|--|
| Tyre Changing Equipment <input type="checkbox"/> | Wheel Brace <input type="checkbox"/> | |
| Jack/Handle <input type="checkbox"/> | Complete Radio Check <input type="checkbox"/> | |
| Drinking Water <input type="checkbox"/> | Snake Bite Kit <input type="checkbox"/> | |
| First Aid Kit <input type="checkbox"/> | Lights & Indicators (internal & external) <input type="checkbox"/> | |
| Check Instruments and Fuel Levels <input type="checkbox"/> | Other <input type="checkbox"/> | |
| Seat Belt Condition/Operation <input type="checkbox"/> | | |

Comments: 1) SAFETY BAR HINGE IS IN GOOD CONDITION & LOCKS IN TO PLACE WHEN UPRIGHT. (OPEN)
2) THE BAR SUPPORT GUIDE IS WORN. IT HAS A SHARP EDGE. REQUIRES A RUBBER INLAY & GRINDING

Signature: OF THE EDGE TO BLUNTEN.

Repairs have been placed on the Crew Action Tracking Register

INCIDENT REPORT



| | | | | |
|------------------|--------------------------|------------|-------------|------------|
| Prospect | Spinel 3D | Event Time | Event Date | 23/03/2007 |
| Client | Great Artesian Oil & Gas | 0800 hrs | Report Date | 23/03/2007 |
| Name of Reporter | Sarah Anderson | | Report # | SPI070323 |

Photo's

Safety bar end



Sharp edges from wearing

Bar support guide



Pinch point



Safety bar in lock down position

INCIDENT REPORT



| | | |
|--------------------------------|---------------|------------------------------|
| Prospect Spinel 3D | Event Time | Event Date 30/03/2007 |
| Client GAOG | 13:00 | Report Date 1/04/2007 |
| Name of Reporter Leeton McHugh | Position HSEM | Report # SPI070401 |

Details of Injured Person

| | | | |
|---|--|--|--|
| Given Names Cody | | Surname Brannelly | |
| D.O.B. 16-Jul-87 | <input checked="" type="checkbox"/> Male | <input type="checkbox"/> Female | |
| Basis of Employment | <input type="checkbox"/> Full time | <input checked="" type="checkbox"/> Casual | <input type="checkbox"/> Self-employed |
| <input type="checkbox"/> Member of public | | | |

Bodily location of injury or worked caused illness

Description Pain & tightness above the right ankle on the chin.

| Classification | Category | | | | Site |
|---|---|---|---------------------------------------|-------------------------------------|--|
| Accident/Failure | Mechanism | Agency | Environmental | Other | |
| <input type="checkbox"/> Fatality | <input type="checkbox"/> Health | <input checked="" type="checkbox"/> Light Vehicle | <input type="checkbox"/> Spill / Leak | <input type="checkbox"/> Equipment | <input checked="" type="checkbox"/> Field Location |
| <input type="checkbox"/> Lost Time Incident | <input checked="" type="checkbox"/> Work Related Injury / Illness | <input type="checkbox"/> Heavy Vehicle | <input type="checkbox"/> Disposal | <input type="checkbox"/> Assets | <input type="checkbox"/> Camp |
| <input type="checkbox"/> Dangerous Event | <input type="checkbox"/> Work Related Medical Treatment | <input type="checkbox"/> Chemicals | | <input type="checkbox"/> Reputation | <input type="checkbox"/> Travelling |
| <input checked="" type="checkbox"/> First Aid | <input type="checkbox"/> Mental Stress | <input type="checkbox"/> Animal / Biological | | | <input type="checkbox"/> Hotel / Motel |
| <input type="checkbox"/> Lost | <input type="checkbox"/> Heat Stress | <input type="checkbox"/> Electrical / Power Tools | | | <input type="checkbox"/> Other (Explain) |
| | | <input type="checkbox"/> Sound / Pressure | | | |

Description of Facts

This incident occurred two days prior to the report due to injury not being reported until the 1-Apr-07. On the 1-Apr-07 at approximately 12:30pm the HSE office was notified on the two-way radio of a lower leg ailment to Cody Brannelly. Leeton McHugh (HSEM) initiated a response to the recording unit and advised of his intended travel to the field and retrieve the injured Cody. The observer was advised by Leeton to instruct Cody to apply an ice pack and elevate the leg. Arrangements were made by the observer to transport Cody in Lee Manning's Trouble Shooter vehicle driven by Lee to the central fence line so that Leeton could rendezvous with them and reduce time.

Leeton and Lee with Cody met along the fence and transferred Cody to the crew ambulance for transportation back to Base Camp. Before leaving Leeton examined the right lower leg of Cody and noticed a small graze in the middle of his right shin. On asking Cody about the injury Cody stated that two days prior to today (Friday 30th April 2007) at approximately 1:00pm) he was standing next to a vehicle when he tried to put his right leg on top of the side step in a forward motion but instead he made contact with the edge. The pain lasted for approximately an hour before subsiding. Cody resumed work when his crew were required to start picking up geophones. He stated that he thought it wasn't that bad and the pain had reduced enough to continue working.

Today the 1st April 2007 Cody was hand rolling cable through a salt lake at approximately 11:00am when his right lower leg began to hurt.

Weather Conditions / Visibility

Fine, cool temp, clear visibility.

Declaration

I _____ declare my written statement and this report are true and correct.

Signature _____

Corrective Action

For cases where no investigation is required, enter necessary corrective actions below

| Item No. | Action Item | Person Responsible | Target Date | Completion Date | Remarks |
|----------|--|--------------------|-------------|-----------------|---------------------------|
| 1 | Transport Cody to Base Camp | Leeton & Lee M | 1/04/2007 | 1/04/2007 | Completed |
| 2 | Treat injury | Leeton | 1/04/2007 | 1/04/2007 | Completed |
| 3 | Notify crew of the importance to report incidents immediately. | Leeton | 2/04/2007 | 2/04/2007 | Completed. See SPI070402. |

INCIDENT REPORT



| | | | | |
|------------------|---------------|------------|-------------|--------------------|
| Prospect | Spinel 3D | Event Time | Event Date | 30/03/2007 |
| Client | GAOG | 13:00 | Report Date | 1/04/2007 |
| Name of Reporter | Leeton McHugh | Position | HSEM | Report # SPI070401 |

Statement

~~30/03~~ 1/4/07

I WAS STANDING NEXT TO THE CABLE TRUCK TALKING IN THE WINDOW AND I WENT TO PUT MY RIGHT FOOT ON THE SIDE STEP BUT MISSED AND ~~WA~~ HIT MY LOWER SHIN ON THE SIDE STEP. IT HAD BEEN HURTING A LITTLE BIT IN THE MORNING'S AND NORMALLY PRETTY GOOD DURING THE DAY. JUST REALLY STARTD TO HURT WHEN I WAS KNEE DEEP IN THE SALT LAKE. IT HAPPEN ON FRIDAY THE 30TH AT ABOUT 1 O'CLOCK.

Cody BRANNELLY



INCIDENT REPORT



| | | |
|--------------------------------|-------------------------------|------------------------------|
| Prospect Spinel 3D | Event Time 18:15hrs | Event Date 4/04/2007 |
| Client GAOG | | Report Date 5/04/2007 |
| Name of Reporter Leeton McHugh | Position HSEM | Report # SPI070404 |

Details of Injured Person

| | | | |
|---|--|--|--|
| Given Names Tommy | | Surname Allen | |
| D.O.B. 28/01/1984 | <input checked="" type="checkbox"/> Male | <input type="checkbox"/> Female | |
| Basis of Employment | <input type="checkbox"/> Full time | <input checked="" type="checkbox"/> Casual | <input type="checkbox"/> Self-employed |
| <input type="checkbox"/> Member of public | | | |

Bodily location of injury or worked caused illness

Description Small cut and bruising to the left elbow. Grazes to the left buttock and upper thigh.

| Classification | Category | | | | Site |
|---|--|--|---------------------------------------|---|--|
| Accident/Failure | Mechanism | Agency | Environmental | Other | |
| <input type="checkbox"/> Fatality | <input type="checkbox"/> Health | <input type="checkbox"/> Light Vehicle | <input type="checkbox"/> Spill / Leak | <input checked="" type="checkbox"/> Equipment | <input type="checkbox"/> Field Location |
| <input type="checkbox"/> Lost Time Incident | <input type="checkbox"/> Work Related Injury / Illness | <input type="checkbox"/> Heavy Vehicle | <input type="checkbox"/> Disposal | <input type="checkbox"/> Assets | <input checked="" type="checkbox"/> Camp |
| <input type="checkbox"/> Dangerous Event | <input type="checkbox"/> Work Related Medical Treatment | <input type="checkbox"/> Chemicals | | <input type="checkbox"/> Reputation | <input type="checkbox"/> Travelling |
| <input checked="" type="checkbox"/> First Aid | <input type="checkbox"/> Mental Stress | <input type="checkbox"/> Animal / Biological | | | <input type="checkbox"/> Hotel / Motel |
| <input type="checkbox"/> Lost | <input type="checkbox"/> Heat Stress | <input type="checkbox"/> Electrical / Power Tools | | | <input type="checkbox"/> Other (Explain) |
| | | <input type="checkbox"/> Sound / Pressure | | | |

Description of Facts

On Wednesday the 4th April 2007 at approximately 18:15hrs Tommy Allen was walking down the stairs to the drinks store room with a carton of drink under his left arm. The door started to swing closed and bumped Tommy off balance, this in turn made Tommy lose his footing and fall on his left side; dropping the carton in the process. Tommy continued to slide down the stairs coming to a stop two steps from the ground. After picking himself up Tommy reported the incident immediately to the site HSE Manager.

Note. The stairs have handrails for support.

Weather Conditions / Visibility

Still daylight, visibility good. Wind was quite strong from a SE direction

Declaration

I _____ declare my written statement and this report are true and correct.

Signature _____

Corrective Action

For cases where no investigation is required, enter necessary corrective actions below

| Item No. | Action Item | Person Responsible | Target Date | Completion Date | Remarks |
|----------|--|--------------------|-------------|-----------------|---|
| 1 | Awareness at toolbox | Leeton McHugh | 5/04/2007 | 5/04/2007 | Completed. See toolbox SPI070405 |
| 2 | Install door latch on the drinks store room. | Mech | 5/04/2007 | 5/04/2007 | Completed. |
| 3 | Treatment & observations of injury | Leeton McHugh | 4/04/2007 | TBA | Initial wound care and support for shoulder (triangular bandage). Ongoing care. |

INCIDENT REPORT



| | | | | |
|------------------|---------------|------------|-------------|--------------------|
| Prospect | Spinel 3D | Event Time | Event Date | 4/04/2007 |
| Client | GAOG | 18:15hrs | Report Date | 5/04/2007 |
| Name of Reporter | Leeton McHugh | Position | HSEM | Report # SPI070404 |

Description of Facts



Additional lighting will be installed here



Door latch to be fitted here

Latch holder is already fixed

Note; these items have been placed on the Action Tracking Register



APPENDIX F

CREW LIST

CREW LIST

| POSITION | NAMES |
|---------------------|----------------------|
| Crew Manager | Turner Jon |
| Crew Manager | Kneipp Mark |
| APM | Carter Brian |
| APM | Warren Campbell |
| HSE Manager | McHugh Leeton |
| HSE | Oswell Geoff |
| HSE (Trainee) | Anderson Sarah |
| Supervisor Mechanic | Screaigh Tony |
| Mechanic | Matthews Kenneth |
| Mechanic | Cummins Andrew |
| Mechanic | Rohrach Michael |
| Campy | Crossie Elizabeth |
| Campy | Larwood Samantha |
| Campy | Gravino Mary |
| Campy | Halpin Jullian |
| Campy | Payne Jason |
| Cook | Viney Dennis |
| Cook | Cole Kelly |
| Cook | Hunt Lee-Ann |
| Cook | McKiernan Shane |
| Cook | Gill Mark |
| Cook | Kither Alfie |
| Kitchen Hand | Halpin Jullian |
| Kitchen Hand | Gravino Mary |
| Kitchen Hand | Payne Jason |
| Kitchen Hand | Stanley Alan |
| Kitchen Hand | Brown Jeremy |
| Kitchen Hand | Mitchell Kevin |
| Supply Driver | Hanush Ronald |
| Supply Driver | James David |
| Supply Driver | Walker Shane |
| Supply Driver | Beltz Vincent |
| Supply Driver | McKenna Mick |
| Observer | Helme Nik |
| Observer | Hume Hamish |
| Observer | Berger David |
| Observer (Junior) | Burton Mitchell |
| Observer | Konta Tom |
| Cable Repair | Bailey-Garden Marama |
| Cable Repair | Fadian Scott |
| Cable Repair | Anderson Sarah |
| Cable Repair | Grainger Leslie |
| Cable Repair | Humphries Ben |

| POSITION | NAMES |
|----------------|---------------------|
| Cable Repair | Betteridge Charles |
| Vib Op | Atkins Wade |
| Vib Op | Bann Abby |
| Vib Op | Bates Steven |
| Vib Op | Cabot Alan |
| Vib Op / Scout | James David |
| Vib Op | Lynch David |
| Vib Op / Scout | Shufflebotham Shane |
| Vib Op | Walker Shane |
| Vib Op | Fox Greg |
| Vib Op | Turner Karen |
| Vib Tech | Goossens Shane |
| Vib Tech | Manning Edward |
| Line Boss | Campbell Warren |
| Line Boss | Capper Alyx |
| Line Boss | Byrne Gareth |
| T/Shooter | Byrne Liam |
| T/Shooter | Manning Lee |
| T/Shooter | Capper Alyx |
| T/Shooter | Little Greg |
| T/Shooter | Miles Keely |
| T/Shooter | Walker Shane |
| T/Shooter | Byrne Nathan |
| De-Pegger | Hanush Ronald |
| De-Pegger | Shufflebotham Shane |
| De-Pegger | Fieldheim Simon |
| De-Pegger | Allen Tommy |
| De-Pegger | McKenna Mick |
| De-Pegger | Beltz Vincent |
| De-Pegger | Branelly Cody |
| Line Crew | Allen Tommy |
| Line Crew | Ansell Brian |
| Line Crew | Ansell James |
| Line Crew | Ash Mark |
| Line Crew | Beltz Vincent |
| Line Crew | Boulter Russell |
| Line Crew | Branelly Cody |
| Line Crew | Byrne Nathan |
| Line Crew | Campbell Warren |
| Line Crew | Charles Shane |
| Line Crew | Crossie Elizabeth |
| Line Crew | Davidson Anthony |

| POSITION | NAMES |
|-----------|--------------------|
| Line Crew | Feldheim Simon |
| Line Crew | Fox Greg |
| Line Crew | Good Jarrod |
| Line Crew | Grande Frank |
| Line Crew | Gravino Mary |
| Line Crew | Henry Brenton |
| Line Crew | Herrick Samuel |
| Line Crew | Hill Timothy |
| Line Crew | Humphries Ben |
| Line Crew | Koch Greg |
| Line Crew | Larwood Samantha |
| Line Crew | Lawrie Philip |
| Line Crew | Little Greg |
| Line Crew | Maag Glen |
| Line Crew | Manning Lee |
| Line Crew | McInroy Ryan |
| Line Crew | Mc Kenna Arnold |
| Line Crew | McKenna Mick |
| Line Crew | Miles Keely |
| Line Crew | Miller Tony |
| Line Crew | Milner Shannon |
| Line Crew | Mitchell Kevin |
| Line Crew | Norris Chris |
| Line Crew | Parkes Robert |
| Line Crew | Payne Jason |
| Line Crew | Phillips Chris |
| Line Crew | Richardson Brad |
| Line Crew | Rickett Dylan |
| Line Crew | Rieger Juergen |
| Line Crew | Rogers Jason |
| Line Crew | Ryan Zach |
| Line Crew | Scheikowski Mark |
| Line Crew | Smith Kelley |
| Line Crew | Smith William |
| Line Crew | Stanley Alan |
| Line Crew | Taylor David |
| Line Crew | Timmer Peter |
| Line Crew | Turner Karen |
| Line Crew | Walker Shane |
| Line Crew | Whitton Ross |
| Line Crew | Williamson Cameron |
| Line Crew | Wulff Joanne |
| Line Crew | Wyllie Edward |

APPENDIX G

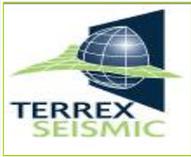
CREW NUMBERS

| POSITION | NUMBERS |
|-------------------|---------|
| Crew Manager | 1 |
| APM | 1 |
| HSE Manager | 1 |
| HSE | 1 |
| HSE (Trainee) | 1 |
| Mechanic | 1-2 |
| Campy | 1-2 |
| Cook | 1-2 |
| Kitchen Hand | 1 |
| Supply Driver | 1-2 |
| Observer (Junior) | 1 |
| Observer | 1 |
| Cable Repair | 1-2 |
| Vib Op | 4-5 |
| Vib Tech | 1 |
| Line Boss | 1 |
| T/Shooter | 2 |
| De-Pegger | 1-2 |
| Line Crew | 21 |



APPENDIX H

DAILY REPORTS



Terrex Seismic
Daily Report

Client..... GAOG
 Survey Name..... Spinel 3D
 Area..... PEL's 91 - 106
 State..... SA

CREW 402
 Party Manager... Mark Kneipp
 Client Rep..... Bruce Beer
 Weather..... Fine / Mild
 DATE..... 24-Jan-07

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | | Daily Totals |
|-------|--------|----------|------|-------|------|--|---|
| | | | | | | | VP's: 0 |
| | | | | | | | Skips: 0 |
| | | | | | | | Lin.Kms: 0.0000 |
| | | | | | | | Day.Sq.Klms: 0.0000 |
| | | | | | | | Cumulative Totals |
| | | | | | | | Cum. VP's: 38956 |
| | | | | | | | Cum.Lin.Kms: 1559.040 |
| | | | | | | | Cum.Sq.Klm: 495.900 |
| | | | | | | | Lin.Kms.Remaining: 162.856 |
| | | | | | | | Sq.Kms.Remaining: 0.000 |
| | | | | | | | % Completed: 100.00% |
| | | | | | | | Average Daily Production Sq. Kms: 495.900 |

HOURS

| Working Time - | | | Down Time - | | | Standby Time - | | | Daily Totals | | |
|-------------------------|--|--|--------------------------|--|--|-------------------------|-----|--|--------------------------|--------|--|
| Recording: | | | Human Error: | | | Toolbox/Safety Meeting: | 0.3 | | Working Time: | 0.0 | |
| Requested Experimental: | | | Troubleshooting: | | | Induction: | | | Standby Time: | 10.0 | |
| Recorder Moveup: | | | Recorder: | | | Weather: | 9.7 | | Down Time: | 0.0 | |
| Waiting on Spread: | | | Vibes: | | | Other: | | | Non-Charge Time: | 0.0 | |
| Vibe Detour: | | | WOS: | | | | | | Total Day Hrs: | 10.0 | |
| Terrain Detour: | | | Tests / Other: | | | | | | Cumulative Totals | | |
| Traverse Move: | | | | | | Fixed Charge - | | | Working Time(Job): | 820.0 | |
| Panel Move: | | | | | | Mobilisation: | | | Standby Time(Job): | 78.7 | |
| Swath Move: | | | Non-Charge Time - | | | Spread Layout/Pickup: | | | Down Time(Job): | 48.4 | |
| Other: | | | Travel Time: | | | Crew Demobe/Remobe: | | | Non-Charge Time(Job): | 42.0 | |
| | | | | | | | | | Total Hrs (Job): | 1037.8 | |

COMMENTS:

*Road Closures to Toolachee Rd & Jack Lake Rd for heavy vehicles are still stopping mobilisation to prospect.
 *Road closures being reviewed on a regular basis

Spread Movement

| Client: GAOG Spirel 3D | | | Date: Wednesday, 24 January 2007 | | |
|-------------------------------|-----------|-----|---|-----------|-----|
| Layout | | | Pickup | | |
| Line | Station # | Tot | Line | Station # | Tot |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Total Stations : | | 0 | Total Stations: | | 0 |
| Equipment Report | | | Bad Phones: 0 | | |
| | | | Bad Cable: | | |

Total Crew #'s: _____ Line crew #'s: _____ Light Vehicle #'s: _____

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|----------|-------|--------|-----|------------|----------|----------|-----|----------------------|------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| | | | | | | | | Total Holes | 0 |
| | | | | | | | | Cum.Holes Drilled | 0 |
| | | | | | | | | Charge | 0.00 |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 |
| | | | | | | | | Consum | |
| | | | | | | | | Biovis | 0 |
| | | | | | | | | 4 x 3/4 | 0 |
| | | | | | | | | 5 x 1/8 | 0 |
| | | | | | | | | Tri Cone 4 3/4 | 0 |
| | | | | | | | | Aqua gel | 0 |
| | | | | | | | | Mtr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

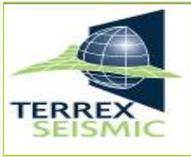
COMMENTS:

EXPERTEST - LOGGING PRODUCTION

| | Hrs | Work | 0.00 |
|--|-----|----------------------|------|
| | | Standby | 0.00 |
| | | Downtime | 0.00 |
| | | Kim Trav | 0.00 |
| | | Trav Hrs | 0.00 |
| | | Consum | |
| | | Holecaps | 0 |
| | | Charge | 0.00 |
| | | Cum.Charge.Hrs (Job) | 0.00 |
| | | Cum.Stby.Hrs (Job) | 0.00 |
| | | Cum.Trav.Kim (Job) | 0.00 |
| | | Cum.Trav.Hrs (Job) | 0.00 |

COMMENTS:

Crew Manager  Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
 Survey Name..... Spinel 3D
 Area..... PEL's 91 - 106
 State..... SA

CREW 402
 Party Manager... Mark Kneipp
 Client Rep..... Bruce Beer
 Weather..... Fine / Mild
 DATE..... 25-Jan-07

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | | Daily Totals |
|-------|--------|----------|------|-------|------|--|---|
| | | | | | | | VP's: 0 |
| | | | | | | | Skips: 0 |
| | | | | | | | Lin.Kms: 0.0000 |
| | | | | | | | Day.Sq.Klms: 0.0000 |
| | | | | | | | Cumulative Totals |
| | | | | | | | Cum. VP's: 38956 |
| | | | | | | | Cum.Lin.Kms: 1559.040 |
| | | | | | | | Cum.Sq.Klm: 495.900 |
| | | | | | | | Lin.Kms.Remaining: 162.856 |
| | | | | | | | Sq.Kms.Remaining: 0.000 |
| | | | | | | | % Completed: 100.00% |
| | | | | | | | Average Daily Production Sq. Kms: 495.900 |

HOURS

| Working Time - | | | Down Time - | | | Standby Time - | | | Daily Totals | | |
|-------------------------|--|--|--------------------------|--|--|-------------------------|-----|--|--------------------------|--------|--|
| Recording: | | | Human Error: | | | Toolbox/Safety Meeting: | 0.3 | | Working Time: | 0.0 | |
| Requested Experimental: | | | Troubleshooting: | | | Induction: | | | Standby Time: | 10.0 | |
| Recorder Moveup: | | | Recorder: | | | Weather: | 9.7 | | Down Time: | 0.0 | |
| Waiting on Spread: | | | Vibes: | | | Other: | | | Non-Charge Time: | 0.0 | |
| Vibe Detour: | | | WOS: | | | | | | Total Day Hrs: | 10.0 | |
| Terrain Detour: | | | Tests / Other: | | | | | | Cumulative Totals | | |
| Traverse Move: | | | | | | Fixed Charge - | | | Working Time(Job): | 820.0 | |
| Panel Move: | | | | | | Mobilisation: | | | Standby Time(Job): | 78.7 | |
| Swath Move: | | | Non-Charge Time - | | | Spread Layout/Pickup: | | | Down Time(Job): | 48.4 | |
| Other: | | | Travel Time: | | | Crew Demobe/Remobe: | | | Non-Charge Time(Job): | 42.0 | |
| | | | | | | | | | Total Hrs (Job): | 1037.8 | |

COMMENTS:

*Road Closures to Toolachee Rd & Jack Lake Rd for heavy vehicles are still stopping mobilisation to prospect.
 *Road closures being reviewed on a regular basis

Spread Movement

| | | | | | | | | | | | |
|-------------------------------|-----------|-----|------|----------------------|-----|--|-----------|-------------------|------|-----------|-----|
| Client: GAOG Spirel 3D | | | | | | Date: Thursday, 25 January 2007 | | | | | |
| Layout | | | | | | Pickup | | | | | |
| Line | Station # | Tot | Line | Station # | Tot | Line | Station # | Tot | Line | Station # | Tot |
| | | | | | | | | | | | |
| Total Stations : 0 | | | | | | Total Stations: 0 | | | | | |
| Equipment Report | | | | Bad Phones: 0 | | | | Bad Cable: | | | |

Total Crew #'s: _____ Line crew #'s: _____ Light Vehicle #'s: _____

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|---------------------------|-------|--------|-----|------------|----------|----------|-------------|-----------------------------|-------------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| Total Holes | | | | | | | 0 | Charge | 0.00 |
| Cum.Holes Drilled | | | | | | | 0 | Cum.Charge.Hrs (Job) | 0.00 |
| Cum.Stby.Hrs (Job) | | | | | | | 0.00 | Cum.Stby.Hrs (Job) | 0.00 |
| Cum.Trav.Hrs (Job) | | | | | | | 0.00 | Cum.Trav.Hrs (Job) | 0.00 |
| Personal | | | | | | | | Consum | |
| Driller | | | | | | | | Biovis | 0 |
| Driller | | | | | | | | 4 x 3/4 | 0 |
| Offsider | | | | | | | | 5 x 1/8 | 0 |
| Offsider | | | | | | | | Tri Cone 4 3/4 | 0 |
| Offsider | | | | | | | | Aqua gel | 0 |
| | | | | | | | | Mtr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

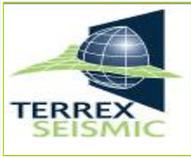
EXPERTEST - LOGGING PRODUCTION

| | Hrs | Work | 0.00 |
|-----------------|-----|-----------------------------|-------------|
| | | Standby | 0.00 |
| | | Downtime | 0.00 |
| | | Kim Trav | 0.00 |
| | | Trav Hrs | 0.00 |
| Personal | | Consum | |
| Logger | | Holecaps | 0 |
| | | Charge | 0.00 |
| | | Cum.Charge.Hrs (Job) | 0.00 |
| | | Cum.Stby.Hrs (Job) | 0.00 |
| | | Cum.Trav.Kim (Job) | 0.00 |
| | | Cum.Trav.Hrs (Job) | 0.00 |

COMMENTS:

Crew Manager 

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
 Survey Name..... Spinel 3D
 Area..... PEL's 91 - 106
 State..... SA

CREW 402
 Party Manager... Mark Kneipp
 Client Rep..... Bruce Beer
 Weather..... Fine / Mild/Windy
 DATE..... 27-Jan-07

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | |
|-------|--------|----------|------|-------|------|---|
| | | | | | | Daily Totals |
| | | | | | | VP's: 0 |
| | | | | | | Skips: 0 |
| | | | | | | Lin.Kms: 0.0000 |
| | | | | | | Day.Sq.Klms: 0.0000 |
| | | | | | | Cumulative Totals |
| | | | | | | Cum. VP's: 38956 |
| | | | | | | Cum.Lin.Kms: 1559.040 |
| | | | | | | Cum.Sq.Klm: 495.900 |
| | | | | | | Lin.Kms.Remaining: 162.856 |
| | | | | | | Sq.Kms.Remaining: 0.000 |
| | | | | | | % Completed: 100.00% |
| | | | | | | Average Daily Production Sq. Kms: 495.900 |

HOURS

| Working Time - | | | Down Time - | | | Standby Time - | | | Daily Totals | | |
|-------------------------|--------------------------|-------------------------|-------------|--|--|--------------------------|--------|--|--------------|--|--|
| Recording: | Human Error: | Toolbox/Safety Meeting: | 0.3 | | | Working Time: | 0.0 | | | | |
| Requested Experimental: | Troubleshooting: | Induction: | | | | Standby Time: | 0.3 | | | | |
| Recorder Moveup: | Recorder: | Weather: | | | | Down Time: | 0.0 | | | | |
| Waiting on Spread: | Vibes: | Other: | | | | Non-Charge Time: | 0.0 | | | | |
| Vibe Detour: | WOS: | | | | | Total Day Hrs: | 15.6 | | | | |
| Terrain Detour: | Tests / Other: | Other - | | | | Cumulative Totals | | | | | |
| Traverse Move: | | Mobilisation: | 15.3 | | | Working Time(Job): | 820.0 | | | | |
| Panel Move: | Non-Charge Time - | Spread Layout/Pickup: | | | | Standby Time(Job): | 78.7 | | | | |
| Swath Move: | Travel Time: | Crew Demobe/Remobe: | | | | Down Time(Job): | 48.4 | | | | |
| Other: | | | | | | Non-Charge Time(Job): | 42.0 | | | | |
| | | | | | | Total Hrs (Job): | 1037.8 | | | | |

COMMENTS:

*Mobilised to the Spinel 3D prospect, leaving the Scrotus 2D site at 0915 and arriving at the new site at 1900. Camp was set up and functional by 2200.
 *Diversified started floating vibes on early AM, 1st vibe arrived to Spinel at 1900. Expect next vibe late tomorrow.
 *Coldroom has broken down over camp move, mechanics looking at tomorrow.
 * Note as mobilisation is a fixed charge, no time from today will be added to the cumulative totals for the job.

Spread Movement

| Client: GAOG Spirel 3D | | | Date: Saturday, 27 January 2007 | | |
|-------------------------------|-----------|-----|--|-----------|-----|
| Layout | | | Pickup | | |
| Line | Station # | Tot | Line | Station # | Tot |
| | | | | | |
| | | | | | |
| | | | | | |
| Total Stations : | | 0 | Total Stations: | | 0 |
| Equipment Report | | | Bad Phones: 0 | | |
| | | | Bad Cable: | | |

Total Crew #'s: _____ Line crew #'s: _____ Light Vehicle #'s: _____

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|----------|-------|--------|-----|------------|----------|----------|-----|----------------------|-------------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| | | | | | | | | Total Holes | 0 |
| | | | | | | | | Cum.Holes Drilled | 0 |
| | | | | | | | | Charge | 0.00 |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 |
| | | | | | | | | Consum | 0 |
| | | | | | | | | Biovis | 0 |
| | | | | | | | | 4 x 3/4 | 0 |
| | | | | | | | | 5 x 1/8 | 0 |
| | | | | | | | | Tri Cone 4 3/4 | 0 |
| | | | | | | | | Aqua gel | 0 |
| | | | | | | | | Mtr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

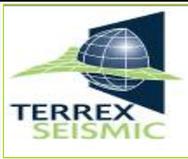
EXPERTEST - LOGGING PRODUCTION

| | Hrs | Work | 0.00 | |
|--|-----|------|----------------------|-------------|
| | | | Standby | 0.00 |
| | | | Downtime | 0.00 |
| | | | Kim Trav | 0.00 |
| | | | Trav Hrs | 0.00 |
| | | | Consum | 0 |
| | | | Holecaps | 0 |
| | | | Charge | 0.00 |
| | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | Cum.Trav.Kim (Job) | 0.00 |
| | | | Cum.Trav.Hrs (Job) | 0.00 |

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
 Survey Name..... Spinel 3D
 Area..... PEL's 91 - 106
 State..... SA

CREW 402
 Party Manager.. Mark Kneipp
 Client Rep..... Bruce Beer
 Weather..... Fine / Mild/Windy
 DATE..... 28-Jan-07

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | |
|-------|--------|----------|------|-------|------|---|
| | | | | | | Daily Totals |
| | | | | | | VP's: 0 |
| | | | | | | Skips: 0 |
| | | | | | | Lin.Kms: 0.0000 |
| | | | | | | Day.Sq.Klms: 0.0000 |
| | | | | | | Cumulative Totals |
| | | | | | | Cum. VP's: 38956 |
| | | | | | | Cum.Lin.Kms: 1559.040 |
| | | | | | | Cum.Sq.Klm: 495.900 |
| | | | | | | Lin.Kms.Remaining: 162.856 |
| | | | | | | Sq.Kms.Remaining: 0.000 |
| | | | | | | % Completed: 100.00% |
| | | | | | | Average Daily Production Sq. Kms: 495.900 |

HOURS

| Working Time - | | | Down Time - | | | Standby Time - | | | Daily Totals | | |
|-------------------------|-------------------|-------------------------|-----------------------------|--------------------------|--------|----------------|--|--|--------------|--|--|
| Recording: | Human Error: | Toolbox/Safety Meeting: | 0.3 | Working Time: | 0.0 | | | | | | |
| Requested Experimental: | Troubleshooting: | Induction: | 0.7 | Standby Time: | 1.0 | | | | | | |
| Recorder Moveup: | Recorder: | Weather: | | Down Time: | 0.0 | | | | | | |
| Waiting on Spread: | Vibes: | Other: | | Non-Charge Time: | 1.0 | | | | | | |
| Vibe Detour: | WOS: | | | Total Day Hrs: | 12.2 | | | | | | |
| Terrain Detour: | Tests / Other: | | | Cumulative Totals | | | | | | | |
| Travel Move: | | Other - | | Working Time(Job): | 820.0 | | | | | | |
| Panel Move: | Non-Charge Time - | Mobilisation: | 3.2 *Finish setting up camp | Standby Time(Job): | 78.7 | | | | | | |
| Swath Move: | Travel Time: | Intraprospect Move: | 7.0 | Down Time(Job): | 48.4 | | | | | | |
| Other: | | Spread Layout/Pickup: | | Non-Charge Time(Job): | 42.0 | | | | | | |
| | | Crew Demobe/Remobe: | | Total Hrs (Job): | 1037.8 | | | | | | |

COMMENTS:

*Toolbox was at 0700 this morning due to the late night setting up camp the day prior.
 *The remainder of the day was spent completing camp setup, loading spread from the trucks and laying out the initial 10 lines required for shooting, of which 6 were laid by the evening.
 * Second Vibe arrived at 1600, expect the 3rd vibe to arrive at 1430 tommorrow. We will commence acquisition with 3 vibes.
 *The GAOG crew induction was held in the evening.
 *The camp cold room is beyond repair by the mechanics, unsuccessful sourcing a refrigeration mechanic from Moomba this afternoon, will continue looking for one tomorrow.
 * Note as spread layout is a fixed charge, the only times added to the cumulative totals is 0.7 hrs for the crew induction, 0.3 hrs toolbox & 1 hr travel.

Spread Movement

| Client: GAOG Spirel 3D | | | | Date: Sunday, 28 January 2007 | | | |
|-----------------------------|-----------|------|-----|-------------------------------|-----------|-----|---|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2228 | 5368 | 5476 | 109 | 0 | 0 | 0 | 0 |
| 2236 | 5373 | 5476 | 104 | | | | |
| 2244 | 5373 | 5476 | 104 | | | | |
| 2252 | 5373 | 5476 | 104 | | | | |
| 2260 | 5373 | 5476 | 104 | | | | |
| 2268 | 5373 | 5476 | 104 | | | | |
| Total Stations : 629 | | | | Total Stations: 0 | | | |

Total Crew #'s: Line crew #'s: Light Vehicle #'s:

Equipment Report Bad Phones: 0 Bad Cable:

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|----------|-------|--------|-----|------------|----------|----------|-----|----------------------|-------------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| | | | | | | | | Total Holes | 0 |
| | | | | | | | | Cum.Holes Drilled | 0 |
| | | | | | | | | Charge | 0.00 |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 |
| | | | | | | | | Consum | 0 |
| | | | | | | | | Biovis | 0 |
| | | | | | | | | 4 x 3/4 | 0 |
| | | | | | | | | 5 x 1/8 | 0 |
| | | | | | | | | Tri Cone 4 3/4 | 0 |
| | | | | | | | | Aqua gel | 0 |
| | | | | | | | | Mtr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

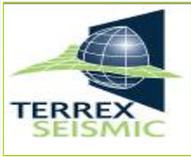
EXPERTEST - LOGGING PRODUCTION

| | Hrs | Work | 0.00 | |
|--|-----|------|----------------------|-------------|
| | | | Standby | 0.00 |
| | | | Downtime | 0.00 |
| | | | Kim Trav | 0.00 |
| | | | Trav Hrs | 0.00 |
| | | | Consum | 0 |
| | | | Holecaps | 0 |
| | | | Charge | 0.00 |
| | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | Cum.Trav.Kim (Job) | 0.00 |
| | | | Cum.Trav.Hrs (Job) | 0.00 |

COMMENTS:

Crew Manager

Client Rep



Terrex Seismic
Daily Report

Client..... GAOG
 Survey Name..... Spinel 3D
 Area..... PEL's 91 - 106
 State..... SA

Party Manager... CREW 402
 Client Rep..... Mark Kneipp
 Weather..... Bruce Beer
 DATE..... Fine / Mild
 29-Jan-07

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's |
|-------|--------|-----------|--------|-------|------|
| 6 | 5372 | 2228-2268 | 0.3200 | 0 | 8 |
| 7 | 5372 | 2228-2276 | 0.3200 | 0 | 8 |

Daily Totals

VP's: 16
 Skips: 0
 Lin.Kms: 0.6400
 Day.Sq.Klms: 0.2036

Cumulative Totals

Cum. VP's: 38956
 Cum.Lin.Kms: 1559.040
 Cum.Sq.Klm: 495.900
 Lin.Kms.Remaining: 0.000
 Sq.Kms.Remaining: 0.000
 % Completed: 100.00%
 Average Daily Production Sq. Kms: 495.900

HOURS

| Working Time - | | Down Time - | | Standby Time - | |
|-------------------------|-----|-------------------|-----|-------------------------|---|
| Recording: | 3.9 | Human Error: | | Toolbox/Safety Meeting: | 0.3 |
| Requested Experimental: | | Troubleshooting: | | Induction: | |
| Recorder Moveup: | | Recorder: | | Weather: | |
| Waiting on Spread: | | Vibes: | 0.1 | Other: | |
| Vibe Detour: | | WOS: | | | |
| Terrain Detour: | | Tests / Other: | 0.3 | Other - | |
| Travel Move: | 0.2 | | | Mobilisation: | 7.1 *Initial layout, waiting for 3rd vibe |
| Panel Move: | | Non-Charge Time - | | Intraprospect Move: | |
| Swath Move: | | Travel Time: | 0.5 | Spread Layout/Pickup: | |
| Other: | | | | Crew Demobe/Remobe: | |

Daily Totals

Working Time: 4.1
 Standby Time: 0.3
 Down Time: 0.4
 Non-Charge Time: 0.5
 Total Day Hrs: 12.4

Cumulative Totals

Working Time(Job): 820.0
 Standby Time(Job): 78.7
 Down Time(Job): 48.4
 Non-Charge Time(Job): 42.0
 Total Hrs (Job): 1037.8

COMMENTS:

*Toolbox set at 0630
 *The initial layout was completed by midday and, after waiting for the 3rd vibe to arrive from the Scrutus prospect, wirelines & source points started at 1407. Recording then commenced at 1443.
 *Good production rate for remainder of today, 264 vp's recorded on the panel overlap and 16 production vp's, however this was recorded on a floodplain with no dunes to slow vibe moveup.
 *A fridge mechanic from EWS arrived on site in afternoon and repaired the camp coldroom.
 *Supply driver went to Moomba for a freight run. Time to Moomba is approx 1 hr via Jack Lake rd.
 *7.1 hrs listed as mobilisation has not been added to the cumulative totals as it is part of the mobilisation/spread layout set fee.
 *Note amendment-0.3 hrs requested experimental moved to Down time - Tests/other
 Total Crew #'s: 35 Line crew #'s: 17 Light Vehicle #'s: 17

Spread Movement

| Client: GAOG Spirel 3D | | | | Date: Monday, 29 January 2007 | | | |
|-------------------------|-----------|------|-----|-------------------------------|-----------|-----|---|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2276 | 5373 | 5476 | 104 | 0 | 0 | 0 | 0 |
| 2284 | 5373 | 5476 | 104 | | | | |
| 2292 | 5373 | 5476 | 104 | | | | |
| 2300 | 5373 | 5476 | 104 | | | | |
| 2308 | 5373 | 5476 | 104 | | | | |
| 2316 | 5373 | 5476 | 104 | | | | |
| 2324 | 5373 | 5476 | 104 | | | | |
| 2332 | 5373 | 5476 | 104 | | | | |
| Total Stations : | | | 832 | Total Stations: | | | 0 |

Equipment Report Bad Phones: 17 Bad Cable: 1

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.



COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|----------|-------|--------|-----|------------|----------|----------|-----|----------------------|-------------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| | | | | | | | | Total Holes | 0 |
| | | | | | | | | Cum.Holes Drilled | 0 |
| | | | | | | | | Charge | 0.00 |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 |
| | | | | | | | | Consum | 0 |
| | | | | | | | | Biovis | 0 |
| | | | | | | | | 4 x 3/4 | 0 |
| | | | | | | | | 5 x 1/8 | 0 |
| | | | | | | | | Tri Cone 4 3/4 | 0 |
| | | | | | | | | Aqua gel | 0 |
| | | | | | | | | Mtr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

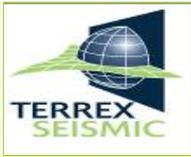
EXPERTEST - LOGGING PRODUCTION

| | Hrs | Work | 0.00 |
|--|-----|----------------------|-------------|
| | | Standby | 0.00 |
| | | Downtime | 0.00 |
| | | Kim Trav | 0.00 |
| | | Trav Hrs | 0.00 |
| | | Consum | 0 |
| | | Holecaps | 0 |
| | | Charge | 0.00 |
| | | Cum.Charge.Hrs (Job) | 0.00 |
| | | Cum.Stby.Hrs (Job) | 0.00 |
| | | Cum.Trav.Kim (Job) | 0.00 |
| | | Cum.Trav.Hrs (Job) | 0.00 |

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
 Survey Name..... Spinel 3D
 Area..... PEL's 91 - 106
 State..... SA

CREW 402
 Party Manager.. Mark Kneipp
 Client Rep..... Bruce Beer
 Weather..... Fine / Warm
 DATE..... 30-Jan-07

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's |
|-------|-----------|-----------|--------|-------|------|
| 6 | 5380-5468 | 2228-2268 | 3.8400 | 0 | 96 |
| 7 | 5380-5468 | 2228-2276 | 3.8400 | 0 | 96 |
| 8 | 5372-5468 | 2228-2284 | 4.1600 | 0 | 104 |
| 9 | 5372-5468 | 2228-2292 | 4.1600 | 0 | 104 |
| 10 | 5372-5468 | 2228-2300 | 4.1600 | 0 | 104 |

Daily Totals
 VP's: 504
 Skips: 0
 Lin.Kms: 20.1600
 Day.Sq.Klms: 6.4125

Cumulative Totals
 Cum. VP's: 38956
 Cum.Lin.Kms: 1559.040
 Cum.Sq.Klm: 495.900
 Lin.Kms.Remaining: 0.000
 Sq.Kms.Remaining: 0.000
 % Completed: 100.00%
 Average Daily Production Sq. Kms: 495.900

HOURS

| Working Time - | | Down Time - | | Standby Time - | |
|-------------------------|-----|--------------------------|-----|-------------------------|-----|
| Recording: | 9.5 | Human Error: | 0.1 | Toolbox/Safety Meeting: | 0.3 |
| Requested Experimental: | | Troubleshooting: | 0.1 | Induction: | |
| Recorder Moveup: | | Recorder: | 0.1 | Weather: | |
| Waiting on Spread: | | Vibes: | | Other: | |
| Vibe Detour: | 0.4 | WOS: | | | |
| Terrain Detour: | | Tests / Other: | | | |
| Travel Move: | 1.1 | | | | |
| Panel Move: | | Non-Charge Time - | | | |
| Swath Move: | | Travel Time: | 0.4 | | |
| Other: | | | | | |

Daily Totals
 Working Time: 11.0
 Standby Time: 0.3
 Down Time: 0.3
 Non-Charge Time: 0.4
 Total Day Hrs: 12.0
Cumulative Totals
 Working Time(Job): 820.0
 Standby Time(Job): 78.7
 Down Time(Job): 48.4
 Non-Charge Time(Job): 42.0
 Total Hrs (Job): 1037.8

COMMENTS:

- * A good days recording, total of 760 vps taken(256 vps overlap, 504 vps recorded)
- * Down Time - Human error(Vibe position errors) - 0.1 & a system reset due to lockup (0.1)
- *The 4th Vibrator arrived today.
- *The remainder of crew numbers for the 3D arrived today, 14 flew in on crew change plane via Moomba, whilst 3 departed for rostered break.
- *Supply driver went to Moomba to guide the returning soldiers to the field.

Spread Movement

| Client: GAOG Spirel 3D | | | | Date: Tuesday, 30 January 2007 | | | |
|-------------------------|-----------|------|-----|--------------------------------|-----------|-----|---|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2340 | 5373 | 5476 | 104 | 0 | 0 | 0 | 1 |
| 2348 | 5373 | 5476 | 104 | | | | 1 |
| 2356 | 5373 | 5434 | 62 | | | | 1 |
| 2364 | 5373 | 5431 | 59 | | | | 1 |
| 2372 | 5373 | 5429 | 57 | | | | 1 |
| 2380 | 5373 | 5426 | 54 | | | | 1 |
| 2388 | 5373 | 5424 | 52 | | | | 1 |
| 2396 | 5373 | 5421 | 49 | | | | 1 |
| Total Stations : | | | 541 | Total Stations: | | | 0 |

Total Crew #'s: 45 Line crew #'s: 25 Light Vehicle #'s: 20

Equipment Report Bad Phones: 12 Bad Cable: 0

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|----------|-------|--------|-----|------------|----------|----------|-----|----------------------|------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| | | | | | | | | Total Holes | 0 |
| | | | | | | | | Cum.Holes Drilled | 0 |
| | | | | | | | | Charge | 0.00 |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 |
| | | | | | | | | Consum | 0 |
| | | | | | | | | Biovis | 0 |
| | | | | | | | | 4 x 3/4 | 0 |
| | | | | | | | | 5 x 1/8 | 0 |
| | | | | | | | | Tri Cone 4 3/4 | 0 |
| | | | | | | | | Aqua gel | 0 |
| | | | | | | | | Mtr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

EXPERTEST - LOGGING PRODUCTION

| Hrs | Work | 0.00 |
|-----|----------------------|------|
| | Standby | 0.00 |
| | Downtime | 0.00 |
| | Kim Trav | 0.00 |
| | Trav Hrs | 0.00 |
| | Consum | 0 |
| | Holecaps | 0 |
| | Charge | 0.00 |
| | Cum.Charge.Hrs (Job) | 0.00 |
| | Cum.Stby.Hrs (Job) | 0.00 |
| | Cum.Trav.Kim (Job) | 0.00 |
| | Cum.Trav.Hrs (Job) | 0.00 |

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Mark Kneipp
Client Rep..... Bruce Beer
Weather..... Fine / Warm
DATE..... 31-Jan-07

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | Daily Totals | | |
|-------|-----------|-----------|--------|-------|------|-----------------------------------|----------|--|
| 6 | 5476 | 2228-2268 | 0.3200 | 0 | 8 | VP's: | 488 | |
| 7 | 5476 | 2228-2276 | 0.3200 | 0 | 8 | Skips: | 0 | |
| 8 | 5476 | 2228-2284 | 0.3200 | 0 | 8 | Lin.Kms: | 19.5200 | |
| 9 | 5476 | 2228-2292 | 0.3200 | 0 | 8 | Day.Sq.Klms: | 6.2089 | |
| 10 | 5476 | 2228-2300 | 0.3200 | 0 | 8 | Cumulative Totals | | |
| 11 | 5476-5372 | 2228-2308 | 4.48 | 0 | 112 | Cum. VP's: | 38956 | |
| 12 | 5476-5372 | 2228-2316 | 4.48 | 0 | 112 | Cum.Lin.Kms: | 1559.040 | |
| 13 | 5372-5476 | 2228-2324 | 4.48 | 0 | 112 | Cum.Sq.Klm: | 495.900 | |
| 14 | 5372-5476 | 2228-2332 | 4.48 | 0 | 112 | Lin.Kms.Remaining: | 0.000 | |
| | | | | | | Sq.Kms.Remaining: | 0.000 | |
| | | | | | | % Completed: | 100.00% | |
| | | | | | | Average Daily Production Sq. Kms: | 247.950 | |

HOURS

| Working Time - | | | | Down Time - | | Standby Time - | | Daily Totals | |
|--------------------|-----|-------------------|-----|-------------------------|-----|--------------------|--------|--------------------------|------|
| Recording: | 8.1 | Human Error: | 0.2 | Toolbox/Safety Meeting: | 0.3 | Working Time: | 11.5 | Standby Time: | 0.3 |
| Recorder Moveup: | 0.4 | Troubleshooting: | 0.3 | Induction: | | Down Time: | 0.7 | Non-Charge Time: | 0.3 |
| Waiting on Spread: | | Recorder: | | Weather: | | Total Day Hrs: | 12.8 | Cumulative Totals | |
| Vibe Detour: | 0.6 | Vibes: | 0.2 | Other: | | Working Time(Job): | 820.0 | Standby Time(Job): | 78.7 |
| Terrain Detour: | | WOS: | | Other - | | Down Time(Job): | 48.4 | Non-Charge Time(Job): | 42.0 |
| Travel Move: | 2.0 | Tests / Other: | | Mobilisation: | | Total Hrs (Job): | 1037.8 | | |
| Panel Move: | | Non-Charge Time - | | Intraprospect Move: | | | | | |
| Swath Move: | 0.4 | Travel Time: | 0.3 | Spread Layout/Pickup: | | | | | |
| Other: | | | | Crew Demobe/Remobe: | | | | | |

COMMENTS:

* A good days recording, total of 680 vps taken(192 vps overlap, 488 vps recorded)
 * Now working in steep sand dunes, detours show accordingly
 * Recorder DT from sys lockup, maybe an LAUX connection?, Vibe DT from Vibe 1 not shaking right troubleshooting time included 0.2 hrs for a point source with all 4 vibes(only 3 used to start job)
 * Supply driver to Moomba to drop off freight
 * 2 line crew returned to Neritus 2D for the day to continue de-pegging there.

Total Crew #s: 45 Line crew #s: 26 Light Vehicle #s: 20

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

Spread Movement

| Client: GAOG Spinel 3D | | | Date: Wednesday, 31 January 2007 | | |
|-------------------------|------------|------|----------------------------------|------------|------|
| Layout | | | Pickup | | |
| Line | Station # | Tot | Line | Station # | Tot |
| 2404 | 5373 | 5419 | 47 | 2228 | 5368 |
| 2412 | 5373 | 5417 | 45 | 2236 | 5373 |
| 2420 | 5373 | 5414 | 42 | 2244 | 5373 |
| 2428 | 5373 | 5412 | 40 | | |
| 2436 | 5373 | 5409 | 37 | | |
| 2444 | 5373 | 5407 | 35 | | |
| 2452 | 5373 | 5404 | 32 | | |
| 2460 | 5373 | 5402 | 30 | | |
| 2468 | 5373 | 5400 | 28 | | |
| 2476 | 5373 | 5397 | 25 | | |
| 2484 | 5373 | 5395 | 23 | | |
| 2492 | 5373 | 5392 | 20 | | |
| 2500 | 5373 | 5390 | 18 | | |
| 2508 | 5373 | 5387 | 15 | | |
| 2516 | 5373 | 5385 | 13 | | |
| 2524 | 5373 | 5383 | 11 | | |
| 2532 | 5373 | 5380 | 8 | | |
| 2540 | 5373 | 5396 | 24 | | |
| Total Stations : | 493 | | Total Stations: | 332 | |

COMMENTS: Continue Production

Equipment Report Bad Phones: 5 Bad Cable: 0

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|----------|-------|--------|-----|------------|----------|----------|-----|----------------------|-------------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| | | | | | | | | Total Holes | 0 |
| | | | | | | | | Cum.Holes Drilled | 0 |
| | | | | | | | | Charge | 0.00 |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 |
| | | | | | | | | Consum | 0 |
| | | | | | | | | Biovis | 0 |
| | | | | | | | | 4 x 3/4 | 0 |
| | | | | | | | | 5 x 1/8 | 0 |
| | | | | | | | | Tri Cone 4 3/4 | 0 |
| | | | | | | | | Aqua gel | 0 |
| | | | | | | | | Mlr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

EXPERTEST - LOGGING PRODUCTION

| | | | | | | | | Hrs | Work | 0.00 |
|--|--|--|--|--|--|--|--|----------------------|-------------|------|
| | | | | | | | | Standby | 0.00 | |
| | | | | | | | | Downtime | 0.00 | |
| | | | | | | | | Kim Trav | 0.00 | |
| | | | | | | | | Trav Hrs | 0.00 | |
| | | | | | | | | Consum | 0 | |
| | | | | | | | | Holecaps | 0 | |
| | | | | | | | | Charge | 0.00 | |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 | |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 | |
| | | | | | | | | Cum.Trav.Klm (Job) | 0.00 | |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 | |

COMMENTS:

Crew Manager

Client Rep



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Mark Kneipp
Client Rep..... Bruce Beer
Weather..... Fine / Hot
DATE..... 01-Feb-07

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | Daily Totals | |
|-------|-----------|-----------|------|-------|------|-----------------------------------|----------|
| 15 | 5476-5372 | 2228-2340 | 4.48 | 0 | 112 | VP's: | 483 |
| 16 | 5476-5372 | 2236-2348 | 4.48 | 0 | 112 | Skips: | 0 |
| 17 | 5372-5476 | 2244-2356 | 4.48 | 0 | 112 | Lin.Kms: | 19.3200 |
| 18 | 5372-5476 | 2252-2364 | 4.12 | 0 | 103 | Day.Sq.Klms: | 6.1453 |
| 19 | 5444-5476 | 2260-2372 | 1.20 | 0 | 30 | Cumulative Totals | |
| 20 | 5460-5476 | 2268-2380 | 0.56 | 0 | 14 | Cum. VP's: | 38956 |
| | | | | | | Cum.Lin.Kms: | 1559.040 |
| | | | | | | Cum.Sq.Klm: | 495.900 |
| | | | | | | Lin.Kms.Remaining: | 0.000 |
| | | | | | | Sq.Kms.Remaining: | 0.000 |
| | | | | | | % Completed: | 100.00% |
| | | | | | | Average Daily Production Sq. Kms: | 165.300 |

HOURS

| Working Time - | | | | Down Time - | | Standby Time - | | Daily Totals | |
|-------------------------|-----|-------------------|-----|-------------------------|-----|--------------------|--------|--------------------------|------|
| Recording: | 8.3 | Human Error: | 0.1 | Toolbox/Safety Meeting: | 0.3 | Working Time: | 11.8 | Standby Time: | 0.3 |
| Requested Experimental: | | Troubleshooting: | 0.2 | Induction: | | Down Time: | 0.4 | Non-Charge Time: | 0.4 |
| Recorder Moveup: | | Recorder: | 0.1 | Weather: | | Total Day Hrs: | 12.9 | Cumulative Totals | |
| Waiting on Spread: | | Vibes: | | Other: | | Working Time(Job): | 820.0 | Standby Time(Job): | 78.7 |
| Vibe Detour: | 1.2 | WOS: | | Other - | | Down Time(Job): | 48.4 | Non-Charge Time(Job): | 42.0 |
| Terrain Detour: | | Tests / Other: | | Mobilisation: | | Total Hrs (Job): | 1037.8 | | |
| Traverse Move: | 2.1 | | | Intraprospect Move: | | | | | |
| Panel Move: | | Non-Charge Time - | | Spread Layout/Pickup: | | | | | |
| Swath Move: | 0.2 | Travel Time: | 0.4 | Crew Demobe/Remobe: | | | | | |
| Other: | | | | | | | | | |

COMMENTS:

* A good days recording, total of 677 vps taken(192 vps overlap, 483 vps recorded)
 * Now working in steep sand dunes, detour hrs show accordingly
 *Recorder DT from line crash. Human error DT - position error or fat finger problem, not sure which.
 *Crew change, 10 out, 6 in via Moomba. Crew numbers down & will continue so for the next 5 days at least while santos ID's come through for new hires. Have trimmed all non-essential camp staff down to maintain line crew #'s
 *Supply driver to Moomba to pick up food order.

Spread Movement

| Client: GAOG Spirel 3D | | | | Date: Thursday, 1 February 2007 | | | |
|-----------------------------|-----------|------|-----|---------------------------------|-----------|--------------|-----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2548 | 5373 | 5412 | 40 | 2256 | 5373 | 5476 | 104 |
| 2556 | 5373 | 5428 | 56 | 2264 | 5373 | 5476 | 104 |
| 2564 | 5373 | 5444 | 72 | 2272 | 5373 | 5476 | 104 |
| 2572 | 5373 | 5460 | 88 | 2280 | 5373 | 5476 | 104 |
| 2580 | 5373 | 5476 | 104 | | | | |
| 2588 | 5373 | 5476 | 104 | | | | |
| Total Stations : 464 | | | | Total Stations: 416 | | | |
| Equipment Report | | | | Bad Phones: 4 | | Bad Cable: 0 | |

Total Crew #'s: 42 Line crew #'s: 24 Light Vehicle #'s: 20

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|--------------------|-------|--------|-----|------------|----------|----------|--------------------|----------------------|-------------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| Total Holes | | | | | | | 0 | Charge | 0.00 |
| Cum.Holes Drilled | | | | | | | 0 | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 |
| Personal | | | | | | | Holes Today | 0 | |
| Driller | | | | | | | Holes Remaining | 0 | |
| | | | | | | | Consum | Biovis | 0 |
| | | | | | | | | 4 x 3/4 | 0 |
| | | | | | | | | 5 x 1/8 | 0 |
| | | | | | | | | Tri Cone 4 3/4 | 0 |
| | | | | | | | | Aqua gel | 0 |
| | | | | | | | | Mlr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

EXPERTEST - LOGGING PRODUCTION

| | | | | | | | | Hrs | Work | 0.00 |
|-----------------|--|--|--|--|--|--|---------------|----------------------|-------------|------|
| | | | | | | | | | Standby | 0.00 |
| | | | | | | | | | Downtime | 0.00 |
| | | | | | | | | | Kim Trav | 0.00 |
| | | | | | | | | | Trav Hrs | 0.00 |
| Personal | | | | | | | Consum | Holecaps | 0 | |
| Logger | | | | | | | | Charge | 0.00 | |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 | |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 | |
| | | | | | | | | Cum.Trav.Klm (Job) | 0.00 | |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 | |

COMMENTS:

Crew Manager

Client Rep



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Mark Kneipp
Client Rep..... Bruce Beer
Weather..... Fine / Hot
DATE..... 02-Feb-07

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | | Daily Totals |
|-------|-----------|-----------|------|-------|------|--|---|
| 19 | 5324-5420 | 2260-2372 | 2.24 | 0 | 56 | | VP's: 374 |
| 20 | 5324-5412 | 2268-2380 | 2.16 | 0 | 54 | | Skips: 0 |
| 21 | 5412-5324 | 2276-2388 | 1.92 | 0 | 48 | | Lin.Kms: 14.9600 |
| 22 | 5412-5324 | 2284-2396 | 1.92 | 0 | 48 | | Day Sq.Klms: 4.7585 |
| 23 | 5412-5324 | 2292-2404 | 1.88 | 0 | 47 | | |
| 24 | 5404-5364 | 2300-2412 | 1.6 | 0 | 40 | | Cumulative Totals |
| 25 | 5404-5364 | 2308-2420 | 1.60 | 0 | 40 | | Cum. VP's: 38956 |
| 26 | 5404-5364 | 2316-2428 | 1.60 | 0 | 40 | | Cum.Lin.Kms: 1559.040 |
| 27 | 5404 | 2324-2436 | 0.04 | 0 | 1 | | Cum. Sq.Klm: 495.900 |
| | | | | | | | Lin.Kms.Remaining: 0.000 |
| | | | | | | | Sq.Kms.Remaining: 0.000 |
| | | | | | | | % Completed: 100.00% |
| | | | | | | | Average Daily Production Sq. Kms: 123.975 |

HOURS

| Working Time - | | | | Down Time - | | Standby Time - | | Daily Totals | |
|-------------------------|-----|-------------------|-----|-------------------------|-----|--------------------------|--------|-----------------------|------|
| Recording: | 8.6 | Human Error: | 0.2 | Toolbox/Safety Meeting: | 0.3 | Working Time: | 11.8 | Standby Time: | 0.3 |
| Requested Experimental: | | Troubleshooting: | 0.2 | Induction: | | Down Time: | 0.6 | Non-Charge Time: | 0.4 |
| Recorder Moveup: | 0.4 | Recorder: | 0.2 | Weather: | | Total Day Hrs: | 13.1 | | |
| Waiting on Spread: | | Vibes: | | Other: | | Cumulative Totals | | | |
| Vibe Detour: | 0.8 | WOS: | | Other - | | Working Time(Job): | 820.0 | Standby Time(Job): | 78.7 |
| Terrain Detour: | | Tests / Other: | | Mobilisation: | | Down Time(Job): | 48.4 | Non-Charge Time(Job): | 42.0 |
| Traverse Move: | 1.7 | | | Intraprospect Move: | | Total Hrs (Job): | 1037.8 | | |
| Panel Move: | | Non-Charge Time - | | Spread Layout/Pickup: | | | | | |
| Swath Move: | 0.3 | Travel Time: | 0.4 | Crew Demobe/Remobe: | | | | | |
| Other: | | | | | | | | | |

COMMENTS:

* A total of 638 vps taken(264 vps overlap, 374 vps recorded)
* Now working in steep sand dunes, detour hrs show accordingly
* Recorder DT from system lock up & a line crash. Human error DT is mainly from fat finger slipsups in recorder. Working extra hrs in day to make up for them.
*Mechanic to Moomba to pick up freight.

Spread Movement

| Client: GAOG Spinel 3D | | | Date: Friday, 2 February 2007 | | | | |
|-------------------------|------------|------|-------------------------------|------------------------|------------|------|-----|
| Layout | | | Pickup | | | | |
| Line | Station # | Tot | Line | Station # | Tot | | |
| 2596 | 5373 | 5476 | 104 | 2284 | 5373 | 5476 | 104 |
| 2604 | 5373 | 5476 | 104 | 2292 | 5373 | 5476 | 104 |
| 2612 | 5373 | 5476 | 104 | 2300 | 5373 | 5476 | 104 |
| 2620 | 5373 | 5476 | 104 | 2308 | 5373 | 5476 | 104 |
| 0 | 0 | 0 | 1 | 2316 | 5373 | 5476 | 104 |
| 0 | 0 | 0 | 1 | 2324 | 5373 | 5476 | 104 |
| 0 | 0 | 0 | 1 | 2332 | 5476 | 5415 | 62 |
| 0 | 0 | 0 | 1 | | | | 1 |
| 0 | 0 | 0 | 1 | | | | 1 |
| Total Stations : | 416 | | | Total Stations: | 686 | | |

Total Crew #'s: 42 Line crew #'s: 24 Light Vehicle #'s: 20

Equipment Report Bad Phones: 12 Bad Cable: 2

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|----------|-------|--------|-----|------------|----------|----------|-----|----------------------|------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| | | | | | | | | Charge | 0.00 |
| | | | | | | | | Cum.Holes Drilled | 0 |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 |
| | | | | | | | | Holes Today | 0 |
| | | | | | | | | Holes Remaining | 0 |
| | | | | | | | | Consum | |
| | | | | | | | | Biovis | 0 |
| | | | | | | | | 4 x 3/4 | 0 |
| | | | | | | | | 5 x 1/8 | 0 |
| | | | | | | | | Tri Cone 4 3/4 | 0 |
| | | | | | | | | Aqua gel | 0 |
| | | | | | | | | Mlr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

EXPERTEST - LOGGING PRODUCTION

| | Hrs | Work | 0.00 |
|--|-----|----------------------|------|
| | | Standby | 0.00 |
| | | Downtime | 0.00 |
| | | Kim Trav | 0.00 |
| | | Trav Hrs | 0.00 |
| | | Consum | |
| | | Holecaps | 0 |
| | | Charge | 0.00 |
| | | Cum.Charge.Hrs (Job) | 0.00 |
| | | Cum.Stby.Hrs (Job) | 0.00 |
| | | Cum.Trav.Klm (Job) | 0.00 |
| | | Cum.Trav.Hrs (Job) | 0.00 |

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Mark Kneipp
Client Rep..... Bruce Beer
Weather..... Fine / Hot
DATE..... 03-Feb-07

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | Daily Totals | |
|-------|-----------|-----------|--------|-------|------|-----------------------------------|----------|
| 27 | 5324-5396 | 2324-2436 | 1.28 | 0 | 32 | VP's: | 217 |
| 28 | 5324-5396 | 2332-2444 | 1.28 | 0 | 32 | Skips: | 0 |
| 29 | 5324-5396 | 2340-2452 | 1.28 | 0 | 32 | Lin.Kms: | 8.6800 |
| 30 | 5396-5324 | 2348-2464 | 1.04 | 0 | 26 | Day.Sq.Klms: | 2.7609 |
| 31 | 5388-5324 | 2356-2472 | 0.96 | 0 | 24 | Cumulative Totals | |
| 32 | 5388-5324 | 2354-2480 | 0.96 | 0 | 24 | Cum. VP's: | 38956 |
| 33 | 5388-5324 | 2362-2488 | 0.76 | 0 | 19 | Cum.Lin.Kms: | 1559.040 |
| 34 | 5380-5324 | 2370-2494 | 0.64 | 0 | 16 | Cum.Sq.Klm: | 495.900 |
| 35 | 5380 | 2378-2502 | 0.32 | 0 | 8 | Lin.Kms.Remaining: | 0.000 |
| 36 | 5380 | 2386-2510 | 0.1600 | 0 | 4 | Sq.Kms.Remaining: | 0.000 |
| | | | | | | % Completed: | 100.00% |
| | | | | | | Average Daily Production Sq. Kms: | 99.180 |

HOURS

| Working Time - | | | | Down Time - | | Standby Time - | | Daily Totals | |
|-------------------------|-----|-------------------|-----|-------------------------|-----|--------------------|--------|--------------------------|------|
| Recording: | 9.8 | Human Error: | 0.1 | Toolbox/Safety Meeting: | 0.3 | Working Time: | 12.2 | Standby Time: | 0.3 |
| Requested Experimental: | | Troubleshooting: | | Induction: | | Down Time: | 0.6 | Non-Charge Time: | 0.4 |
| Recorder Moveup: | 0.4 | Recorder: | 0.5 | Weather: | | Total Day Hrs: | 13.5 | Cumulative Totals | |
| Waiting on Spread: | | Vibes: | | Other: | | Working Time(Job): | 820.0 | Standby Time(Job): | 78.7 |
| Vibe Detour: | 0.6 | WOS: | | | | Down Time(Job): | 48.4 | Non-Charge Time(Job): | 42.0 |
| Terrain Detour: | | Tests / Other: | | Other - | | Total Hrs (Job): | 1037.8 | | |
| Traverse Move: | 1.1 | | | Mobilisation: | | | | | |
| Panel Move: | | Non-Charge Time - | | Intraprospect Move: | | | | | |
| Swath Move: | 0.3 | Travel Time: | 0.4 | Spread Layout/Pickup: | | | | | |
| Other: | | | | Crew Demobe/Remobe: | | | | | |

COMMENTS:

- * A big days shooting, total of 721 vps taken(504 vps overlap, 217 vps recorded)
- * Now working in steep sand dunes, detour hrs show accordingly
- * Recorder DT from a series of system crashes & a non-responding line.
- * Front crew begin to lay on panel 3
- * Scripts received from Harold for P3

Spread Movement

| Client: GAOG Spirel 3D | | | Date: Saturday, 3 February 2007 | | |
|-------------------------|------------|------|---------------------------------|------------------------|------------|
| Layout | | | Pickup | | |
| Line | Station # | Tot | Line | Station # | Tot |
| 2628 | 5373 | 5476 | 104 | 2332 | 5414 |
| 2636 | 5373 | 5476 | 104 | 2340 | 5373 |
| 2644 | 5373 | 5476 | 104 | 2348 | 5476 |
| 2652 | 5373 | 5476 | 104 | 2356 | 5476 |
| 2660 | 5310 | 5476 | 167 | 2364 | 5434 |
| 0 | 0 | 0 | 1 | 2372 | 5431 |
| 0 | 0 | 0 | 1 | 2380 | 5429 |
| 0 | 0 | 0 | 1 | | 5426 |
| 0 | 0 | 0 | 1 | | |
| 0 | 0 | 0 | 1 | | |
| Total Stations : | 583 | | | Total Stations: | 479 |

Total Crew #'s: 42 Line crew #'s: 24 Light Vehicle #'s: 20

Equipment Report Bad Phones: 6 Bad Cable: 0

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|-----------------|-------|--------|-----|------------|----------|--------------------|---------------|----------------------|-------------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| | | | | | | Total Holes | 0 | Charge | 0.00 |
| | | | | | | Cum.Holes Drilled | 0 | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | Holes Today | 0 | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | Holes Remaining | 0 | Cum.Trav.Hrs (Job) | 0.00 |
| Personal | | | | | | | Consum | Blovis | 0 |
| Driller | | | | | | | | 4 x 3/4 | 0 |
| Driller | | | | | | | | 5 x 1/8 | 0 |
| Offsider | | | | | | | | Tri Cone 4 3/4 | 0 |
| Offsider | | | | | | | | Aqua gel | 0 |
| Offsider | | | | | | | | Mtr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

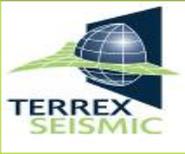
EXPERTEST - LOGGING PRODUCTION

| Personal | Hrs | Work | 0.00 |
|----------|-----|----------------------|----------|
| Logger | | Standby | 0.00 |
| | | Downtime | 0.00 |
| | | Kim Trav | 0.00 |
| | | Trav Hrs | 0.00 |
| | | Consum | Holecaps |
| | | | 0 |
| | | Charge | 0.00 |
| | | Cum.Charge.Hrs (Job) | 0.00 |
| | | Cum.Stby.Hrs (Job) | 0.00 |
| | | Cum.Trav.Klm (Job) | 0.00 |
| | | Cum.Trav.Hrs (Job) | 0.00 |

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Mark Kneipp
Client Rep..... Bruce Beer
Weather..... Fine / Hot
DATE..... 04-Feb-07

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | Daily Totals | |
|-------|-----------|-----------|------|-------|------|-----------------------------------|----------|
| 35 | 5372-5324 | 2378-2502 | 0.32 | 0 | 8 | VP's: | 38 |
| 36 | 5372-5324 | 2386-2510 | 0.32 | 0 | 8 | Skips: | 0 |
| 37 | 5372-5324 | 2394-2518 | 0.32 | 0 | 8 | Lin.Kms: | 1.5200 |
| 38 | 5372-5324 | 2402-2526 | 0.32 | 0 | 8 | Day.Sq.Klms: | 0.4835 |
| 39 | 5372-5324 | 2410-2534 | 0.24 | 0 | 6 | | |
| 40 | 5324-5364 | 2418-2542 | 0 | 0 | 0 | | |
| 41 | 5324-5364 | 2426-2550 | 0 | 0 | 0 | | |
| 42 | 5324-5364 | 2434-2558 | 0 | 0 | 0 | | |
| 43 | 5324-5356 | 2442-2566 | 0 | 0 | 0 | | |
| 44 | 5324-5364 | 2450-2574 | 0 | 0 | 0 | | |
| 45 | 5324-5356 | 2458-2582 | 0 | 0 | 0 | | |
| 46 | 5324-5356 | 2466-2590 | 0 | 0 | 0 | | |
| | | | | | | Cumulative Totals | |
| | | | | | | Cum. VP's: | 38956 |
| | | | | | | Cum.Lin.Kms: | 1559.040 |
| | | | | | | Cum.Sq.Klm: | 495.900 |
| | | | | | | Lin.Kms.Remaining: | 0.000 |
| | | | | | | Sq.Kms.Remaining: | 0.000 |
| | | | | | | % Completed: | 100.00% |
| | | | | | | Average Daily Production Sq. Kms: | 82.650 |

HOURS

| Working Time - | | | Down Time - | | | Standby Time - | | | Daily Totals | |
|-------------------------|-----|--|------------------|-----|--|-------------------------|-----|--|--------------------------|--------|
| Recording: | 7.9 | | Human Error: | | | Toolbox/Safety Meeting: | 0.3 | | Working Time: | 10.5 |
| Requested Experimental: | | | Troubleshooting: | 0.9 | | Induction: | | | Standby Time: | 0.3 |
| Recorder Moveup: | 0.6 | | Recorder: | 0.8 | | Weather: | | | Down Time: | 1.8 |
| Waiting on Spread: | | | Vibes: | 0.1 | | Other: | | | Non-Charge Time: | 0.5 |
| Vibe Detour: | 1.1 | | WOS: | | | | | | Total Day Hrs: | 13.1 |
| Terrain Detour: | | | Tests / Other: | | | | | | Cumulative Totals | |
| Traverse Move: | 0.8 | | | | | Mobilisation: | | | Working Time(Job): | 820.0 |
| Panel Move: | | | | | | Intraprospect Move: | | | Standby Time(Job): | 78.7 |
| Swath Move: | 0.1 | | | | | Spread Layout/Pickup: | | | Down Time(Job): | 48.4 |
| Other: | | | | | | Crew Demobe/Remobe: | | | Non-Charge Time(Job): | 42.0 |
| | | | | | | | | | Total Hrs (Job): | 1037.8 |

COMMENTS:

* Total of 586 vps taken(549 vps overlap, 38 vps recorded)
 * Now working in steep sand dunes & around a fenceline, detour hrs show accordingly
 * Recorder DT from a series of bad system crashes & a non-responding line. High troubleshooting included bad cable & daily tests in morning.
 * Safety Meeting held in morning, Section Head meeting held in evening.
 * First 'Drive-Right' driving system installed & functional, will begin testing & installing in 3 other test vehicles tomorrow.

Spread Movement

| Client: GAOG Spirel 3D | | | Date: Sunday, 4 February 2007 | | | | |
|-----------------------------|-----------|------|-------------------------------|-----------|------|------|----|
| Layout | | | Pickup | | | | |
| Line | Station # | Tot | Line | Station # | Tot | | |
| 2660 | 5309 | 5181 | 129 | 2388 | 5373 | 5424 | 52 |
| 2668 | 5300 | 5181 | 120 | 2396 | 5373 | 5421 | 49 |
| 2676 | 5300 | 5181 | 120 | 2404 | 5373 | 5419 | 47 |
| 2684 | 5300 | 5181 | 120 | 2412 | 5373 | 5417 | 45 |
| 2692 | 5300 | 5260 | 41 | 2420 | 5373 | 5414 | 42 |
| | | | | 2476 | 5373 | 5397 | 25 |
| | | | | 2484 | 5373 | 5395 | 23 |
| | | | | 2492 | 5373 | 5392 | 20 |
| Total Stations : 530 | | | Total Stations: 517 | | | | |

Total Crew #'s: 42 Line crew #'s: 24 Light Vehicle #'s: 20

Equipment Report Bad Phones: 9 Bad Cable: 2

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|----------|-------|--------|-----|------------|----------|----------|-----|-----------------------------|------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| | | | | | | | | Charge | 0.00 |
| | | | | | | | | Total Holes | 0 |
| | | | | | | | | Cum.Holes Drilled | 0 |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 |
| | | | | | | | | Consum | 0 |
| | | | | | | | | Biovis | 0 |
| | | | | | | | | 4 x 3/4 | 0 |
| | | | | | | | | 5 x 1/8 | 0 |
| | | | | | | | | Tri Cone 4 3/4 | 0 |
| | | | | | | | | Aqua gel | 0 |
| | | | | | | | | Mlr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

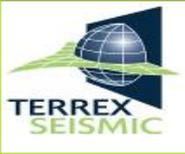
EXPERTEST - LOGGING PRODUCTION

| Hrs | Work | 0.00 | |
|-----|------|----------------------|------|
| | | Standby | 0.00 |
| | | Downtime | 0.00 |
| | | Kim Trav | 0.00 |
| | | Trav Hrs | 0.00 |
| | | Consum | 0 |
| | | Holecaps | 0 |
| | | Charge | 0.00 |
| | | Cum.Charge.Hrs (Job) | 0.00 |
| | | Cum.Stby.Hrs (Job) | 0.00 |
| | | Cum.Trav.Klm (Job) | 0.00 |
| | | Cum.Trav.Hrs (Job) | 0.00 |

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Mark Kneipp
Client Rep..... Bruce Beer
Weather..... Fine / Hot
DATE..... 05-Feb-07

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | Daily Totals | |
|-------|-----------|-----------|------|-------|------|-----------------------------------|----------|
| 44 | 5372 | 2450-2574 | 0.08 | 0 | 2 | VP's: | 451 |
| 45 | 5364-5388 | 2458-2582 | 0.64 | 0 | 16 | Skips: | 0 |
| 46 | 5364-5404 | 2466-2590 | 1.28 | 0 | 32 | Lin.Kms: | 18.0400 |
| 47 | 5420-5324 | 2474-2598 | 1.92 | 0 | 48 | Day.Sq.Klms: | 5.7382 |
| 48 | 5324-5436 | 2482-2606 | 2.56 | 0 | 64 | Cumulative Totals | |
| 49 | 5324-5452 | 2490-2614 | 3.2 | 0 | 80 | Cum. VP's: | 38956 |
| 50 | 5468-5324 | 2498-2622 | 3.88 | 0 | 97 | Cum.Lin.Kms: | 1559.040 |
| 51 | 5476-5324 | 2506-2630 | 4.48 | 0 | 112 | Cum.Sq.Klm: | 495.900 |
| | | | | | | Lin.Kms.Remaining: | 0.000 |
| | | | | | | Sq.Kms.Remaining: | 0.000 |
| | | | | | | % Completed: | 100.00% |
| | | | | | | Average Daily Production Sq. Kms: | 70.843 |

HOURS

| Working Time - | | | Down Time - | | | Standby Time - | | | Daily Totals | |
|-------------------------|-----|--|-------------------|-----|--|-------------------------|-----|--|--------------------------|--------|
| Recording: | 9.5 | | Human Error: | | | Toolbox/Safety Meeting: | 0.3 | | Working Time: | 11.6 |
| Requested Experimental: | | | Troubleshooting: | 0.1 | | Induction: | | | Standby Time: | 0.3 |
| Recorder Moveup: | | | Recorder: | 0.2 | | Weather: | | | Down Time: | 0.3 |
| Waiting on Spread: | | | Vibes: | | | Other: | | | Non-Charge Time: | 0.6 |
| Vibe Detour: | 0.7 | | WOS: | | | Other - | | | Total Day Hrs: | 12.8 |
| Terrain Detour: | | | Tests / Other: | | | Mobilisation: | | | Cumulative Totals | |
| Traverse Move: | 1.2 | | | | | Intraprospect Move: | | | Working Time(Job): | 820.0 |
| Panel Move: | | | Non-Charge Time - | | | Spread Layout/Pickup: | | | Standby Time(Job): | 78.7 |
| Swath Move: | 0.2 | | Travel Time: | 0.6 | | Crew Demobe/Remobe: | | | Down Time(Job): | 48.4 |
| Other: | | | | | | | | | Non-Charge Time(Job): | 42.0 |
| | | | | | | | | | Total Hrs (Job): | 1037.8 |

COMMENTS:

* Total of 707 vps taken(256 vps overlap, 451 vps recorded)
 * Now working in steep sand dunes & around a fenceline, detour hrs show accordingly
 * Most line crew sent in by late morning as there is no work whilst waiting for rolloff of panel. They were utilised around camp, washing & cleaning vehicles ect foer 8 hrs.whilst those needing their EHS level 1 and ID cards went to Moomba to obtain them.
 * Brian Carter(APM) and Hamish Hume (Observer) arrived today via Moomba

Spread Movement

| Client: GAOG Spirel 3D | | | Date: Monday, 5 February 2007 | | |
|-------------------------|-----------|------|-------------------------------|-----------|------|
| Layout | | | Pickup | | |
| Line | Station # | Tot | Line | Station # | Tot |
| 2692 | 5259 | 5181 | 79 | 2500 | 5373 |
| 2700 | 5300 | 5181 | 120 | 2508 | 5373 |
| 2708 | 5300 | 5280 | 21 | 2516 | 5373 |
| Total Stations : | | 220 | Total Stations: | | 148 |

Total Crew #'s: 44 Line crew #'s: 24 Light Vehicle #'s: 20

Equipment Report Bad Phones: 6 Bad Cable: 0

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 | |
|-----------------|-------|--------|-----|------------|----------|----------|--------------------|---------------|----------------------|-------------|
| | | | | | | | | Standby | 0.00 | |
| | | | | | | | | Travel Hrs | 0.00 | |
| | | | | | | | | Downtime | 0.00 | |
| | | | | | | | Total Holes | 0 | Charge | 0.00 |
| | | | | | | | Cum.Holes Drilled | 0 | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | | Holes Today | 0 | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | | Holes Remaining | 0 | Cum.Trav.Hrs (Job) | 0.00 |
| Personal | | | | | | | | Consum | Biovis | 0 |
| Driller | | | | | | | | | 4 x 3/4 | 0 |
| Offsider | | | | | | | | | 5 x 1/8 | 0 |
| Offsider | | | | | | | | | Tri Cone 4 3/4 | 0 |
| Offsider | | | | | | | | | Aqua gel | 0 |
| | | | | | | | | | Mlr | 0 |
| | | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

EXPERTEST - LOGGING PRODUCTION

| | | Hrs | Work | 0.00 |
|-----------------|--|---------------|----------------------|-------------|
| | | | Standby | 0.00 |
| | | | Downtime | 0.00 |
| | | | Kim Trav | 0.00 |
| | | | Trav Hrs | 0.00 |
| Personal | | Consum | Holecaps | 0 |
| Logger | | | Charge | 0.00 |
| | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | Cum.Trav.Klm (Job) | 0.00 |
| | | | Cum.Trav.Hrs (Job) | 0.00 |

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Mark Kneipp
Client Rep..... Bruce Beer
Weather..... Fine / Hot
DATE..... 06-Feb-07

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | Daily Totals | | |
|-------|-----------|-----------|------|-------|------|-----------------------------------|----------|--|
| 52 | 5476-5324 | 2564-2636 | 4.48 | 0 | 112 | VP's: | 488 | |
| 53 | 5364-5388 | 2572-2644 | 4.48 | 0 | 112 | Skips: | 0 | |
| 54 | 5364-5404 | 2580-2652 | 4.48 | 0 | 112 | Lin.Kms: | 19.5200 | |
| 55 | 5420-5324 | 2588-2660 | 4.48 | 0 | 112 | Day.Sq.Klms: | 6.2089 | |
| 56 | 5476-5444 | 2596-2660 | 1.6 | 0 | 40 | | | |
| | | | | | | Cumulative Totals | | |
| | | | | | | Cum. VP's: | 38956 | |
| | | | | | | Cum.Lin.Kms: | 1559.040 | |
| | | | | | | Cum.Sq.Klm: | 495.900 | |
| | | | | | | Lin.Kms.Remaining: | 0.000 | |
| | | | | | | Sq.Kms.Remaining: | 0.000 | |
| | | | | | | % Completed: | 100.00% | |
| | | | | | | Average Daily Production Sq. Kms: | 61.987 | |

HOURS

| Working Time - | | | | Down Time - | | Standby Time - | | Daily Totals | |
|-------------------------|-----|-------------------|-----|-------------------------|-----|--------------------|--------|--------------------------|------|
| Recording: | 9.1 | Human Error: | 0.1 | Toolbox/Safety Meeting: | 0.3 | Working Time: | 12.0 | Standby Time: | 0.3 |
| Requested Experimental: | | Troubleshooting: | 0.1 | Induction: | | Down Time: | 0.2 | Non-Charge Time: | 0.6 |
| Recorder Moveup: | 0.3 | Recorder: | | Weather: | | Total Day Hrs: | 13.1 | Cumulative Totals | |
| Waiting on Spread: | | Vibes: | | Other: | | Working Time(Job): | 820.0 | Standby Time(Job): | 78.7 |
| Vibe Detour: | 1.7 | WOS: | | | | Down Time(Job): | 48.4 | Non-Charge Time(Job): | 42.0 |
| Terrain Detour: | | Tests / Other: | | Other - | | Total Hrs (Job): | 1037.8 | | |
| Traverse Move: | 0.9 | | | Mobilisation: | | | | | |
| Panel Move: | | Non-Charge Time - | | Intraprospect Move: | | | | | |
| Swath Move: | | Travel Time: | 0.6 | Spread Layout/Pickup: | | | | | |
| Other: | | | | Crew Demobe/Remobe: | | | | | |

COMMENTS:

- * Total of 688 vps taken(240 vps overlap, 448 vps recorded)
- * Now working in steep sand dunes, detour hrs show accordingly
- * Only back crew sent to line today to pick lines 2524 - 2556 (still waiting for rolloff of panel)
- * 3 Vehicles sent to Neritus 3D to continue depegging there, nearly complete
- * 2 Line crew went to Moomba to unload the flat deck in readiness for transport to Toowoomba
- * Remainder of line crew were used for various projects around camp for their 8 hrs.

Spread Movement

| Client: GAOG Spirel 3D | | | Date: Tuesday, 6 February 2007 | | |
|-------------------------|-----------|-----|--------------------------------|-----------|------|
| Layout | | | Pickup | | |
| Line | Station # | Tot | Line | Station # | Tot |
| | | | 2524 | 5373 | 5383 |
| | | | 2532 | 5373 | 5380 |
| | | | 2540 | 5373 | 5396 |
| | | | 2548 | 5373 | 5412 |
| | | | 2556 | 5373 | 5428 |
| Total Stations : | | | Total Stations: 139 | | |
| Equipment Report | | | Bad Phones: 11 | | |
| | | | Bad Cable: 2 | | |

Total Crew #s: 44

Line crew #s: 24

Light Vehicle #s: 20

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|----------|-------|--------|-----|------------|----------|----------|-----|----------------------|------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| | | | | | | | | Charge | 0.00 |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 |
| | | | | | | | | Consum | |
| | | | | | | | | Biovis | 0 |
| | | | | | | | | 4 x 3/4 | 0 |
| | | | | | | | | 5 x 1/8 | 0 |
| | | | | | | | | Tri Cone 4 3/4 | 0 |
| | | | | | | | | Aqua gel | 0 |
| | | | | | | | | Mlr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

EXPERTEST - LOGGING PRODUCTION

| | Hrs | Work | 0.00 |
|--|-----|----------------------|------|
| | | Standby | 0.00 |
| | | Downtime | 0.00 |
| | | Kim Trav | 0.00 |
| | | Trav Hrs | 0.00 |
| | | Consum | |
| | | Holecaps | 0 |
| | | Charge | 0.00 |
| | | Cum.Charge.Hrs (Job) | 0.00 |
| | | Cum.Stby.Hrs (Job) | 0.00 |
| | | Cum.Trav.Klm (Job) | 0.00 |
| | | Cum.Trav.Hrs (Job) | 0.00 |

COMMENTS:

Crew Manager

Client Rep



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Mark Kneipp
Client Rep..... Bruce Beer
Weather..... Fine / Hot
DATE..... 07-Feb-07

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | Daily Totals | |
|-------|-----------|-----------|------|-------|------|-----------------------------------|----------|
| 56 | 5436-5324 | 2596-2660 | 2.88 | 0 | 72 | VP's: | 408 |
| 57 | 5324-5476 | 2604-2660 | 4.48 | 0 | 112 | Skips: | 0 |
| 58 | 5476-5324 | 2612-2660 | 4.48 | 0 | 112 | Lin.Kms: | 16.3200 |
| 59 | 5324-5476 | 2620-2660 | 4.48 | 0 | 112 | Day.Sq.Klms: | 5.1911 |
| | | | | | | Cumulative Totals | |
| | | | | | | Cum. VP's: | 38956 |
| | | | | | | Cum.Lin.Kms: | 1559.040 |
| | | | | | | Cum.Sq.Klm: | 495.900 |
| | | | | | | Lin.Kms.Remaining: | 0.000 |
| | | | | | | Sq.Kms.Remaining: | 0.000 |
| | | | | | | % Completed: | 100.00% |
| | | | | | | Average Daily Production Sq. Kms: | 55.100 |

HOURS

| Working Time - | | | Down Time - | | | Standby Time - | | | Daily Totals | |
|-------------------------|-----|--|-------------------|-----|--|-------------------------|-----|--|--------------------------|--------|
| Recording: | 7.7 | | Human Error: | | | Toolbox/Safety Meeting: | 0.3 | | Working Time: | 11.4 |
| Requested Experimental: | | | Troubleshooting: | 0.1 | | Induction: | | | Standby Time: | 0.3 |
| Recorder Moveup: | 1.1 | | Recorder: | | | Weather: | | | Down Time: | 0.1 |
| Waiting on Spread: | | | Vibes: | | | Other: | | | Non-Charge Time: | 0.6 |
| Vibe Detour: | 1.0 | | WOS: | | | Other - | | | Total Day Hrs: | 12.4 |
| Terrain Detour: | | | Tests / Other: | | | Mobilisation: | | | Cumulative Totals | |
| Traverse Move: | 1.5 | | | | | Intraprospect Move: | | | Working Time(Job): | 820.0 |
| Panel Move: | | | Non-Charge Time - | | | Spread Layout/Pickup: | | | Standby Time(Job): | 78.7 |
| Swath Move: | 0.1 | | Travel Time: | 0.6 | | Crew Demobe/Remobe: | | | Down Time(Job): | 48.4 |
| Other: | | | | | | | | | Non-Charge Time(Job): | 42.0 |
| | | | | | | | | | Total Hrs (Job): | 1037.8 |

COMMENTS:

* Total of 600 vps taken(192 vps overlap, 408 vps recorded)
* Now working in steep sand dunes, detour hrs show accordingly
* Panel 4 complete, vibes & recorder moved part way to panel 3

Spread Movement

| Client: GAOG Spirel 3D | | | | Date: Wednesday, 7 February 2007 | | | |
|-------------------------|-----------|------|-----|----------------------------------|-----------|------|-----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2708 | 5279 | 5181 | 99 | 2564 | 5373 | 5444 | 72 |
| 2716 | 5300 | 5181 | 120 | 2572 | 5373 | 5460 | 88 |
| 2724 | 5300 | 5181 | 120 | 2580 | 5373 | 5476 | 104 |
| 2732 | 5300 | 5181 | 120 | 2588 | 5373 | 5476 | 104 |
| 2752 | 5300 | 5181 | 120 | 2596 | 5373 | 5476 | 104 |
| 2744 | 5181 | 5268 | 88 | 2604 | 5373 | 5476 | 104 |
| | | | | 2612 | 5373 | 5476 | 104 |
| Total Stations : | | | 635 | Total Stations: | | | 680 |

Total Crew #'s: 44 Line crew #'s: 24 Light Vehicle #'s: 20

Equipment Report Bad Phones: 5 Bad Cable: 1

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|----------|-------|--------|-----|------------|----------|----------|-----|----------------------|------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| | | | | | | | | Charge | 0.00 |
| | | | | | | | | Cum.Holes Drilled | 0 |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 |
| | | | | | | | | Consum | 0 |
| | | | | | | | | Biovis | 0 |
| | | | | | | | | 4 x 3/4 | 0 |
| | | | | | | | | 5 x 1/8 | 0 |
| | | | | | | | | Tri Cone 4 3/4 | 0 |
| | | | | | | | | Aqua gel | 0 |
| | | | | | | | | Mlr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

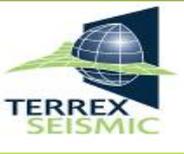
EXPERTEST - LOGGING PRODUCTION

| | Hrs | Work | 0.00 |
|--|-----|----------------------|------|
| | | Standby | 0.00 |
| | | Downtime | 0.00 |
| | | Kim Trav | 0.00 |
| | | Trav Hrs | 0.00 |
| | | Consum | 0 |
| | | Holecaps | 0 |
| | | Charge | 0.00 |
| | | Cum.Charge.Hrs (Job) | 0.00 |
| | | Cum.Stby.Hrs (Job) | 0.00 |
| | | Cum.Trav.Klm (Job) | 0.00 |
| | | Cum.Trav.Hrs (Job) | 0.00 |

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Mark Kneipp
Client Rep..... Bruce Beer
Weather..... Fine / Hot
DATE..... 08-Feb-07

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | Daily Totals | | |
|-------|-----------|-----------|------|-------|------|-----------------------------------|----------|--|
| 60 | 5300-5236 | 2732-2660 | 2.88 | 0 | 72 | VP's: | 360 | |
| 61 | 5236-5300 | 2724-2652 | 2.88 | 0 | 72 | Skips: | 0 | |
| 62 | 5300-5236 | 2716-2644 | 2.88 | 0 | 72 | Lin.Kms: | 14.4000 | |
| 63 | 5236-5300 | 2708-2636 | 2.88 | 0 | 72 | Day.Sq.Klms: | 4.5804 | |
| 64 | 5300-5236 | 2700-2628 | 2.88 | 0 | 72 | | | |
| | | | | | | Cumulative Totals | | |
| | | | | | | Cum. VP's: | 38956 | |
| | | | | | | Cum.Lin.Kms: | 1559.040 | |
| | | | | | | Cum.Sq.Klm: | 495.900 | |
| | | | | | | Lin.Kms.Remaining: | 0.000 | |
| | | | | | | Sq.Kms.Remaining: | 0.000 | |
| | | | | | | % Completed: | 100.00% | |
| | | | | | | Average Daily Production Sq. Kms: | 49.590 | |

HOURS

| Working Time - | | | | Down Time - | | Standby Time - | | Daily Totals | |
|-------------------------|-----|-------------------|-----|-------------------------|-----|--------------------|--------|--------------------------|------|
| Recording: | 4.2 | Human Error: | 0.1 | Toolbox/Safety Meeting: | 0.3 | Working Time: | 10.1 | Standby Time: | 0.3 |
| Requested Experimental: | | Troubleshooting: | 1.2 | Induction: | | Down Time: | 2.0 | Non-Charge Time: | 0.5 |
| Recorder Moveup: | | Recorder: | | Weather: | | Total Day Hrs: | 12.9 | Cumulative Totals | |
| Waiting on Spread: | 2.1 | Vibes: | | Other: | | Working Time(Job): | 820.0 | Standby Time(Job): | 78.7 |
| Vibe Detour: | 0.3 | WOS: | 0.7 | | | Down Time(Job): | 48.4 | Non-Charge Time(Job): | 42.0 |
| Terrain Detour: | | Tests / Other: | | Other - | | Total Hrs (Job): | 1037.8 | | |
| Travel Move: | 2.1 | | | Mobilisation: | | | | | |
| Panel Move: | | Non-Charge Time - | | Intraprospect Move: | | | | | |
| Swath Move: | 1.4 | Travel Time: | 0.5 | Spread Layout/Pickup: | | | | | |
| Other: | | | | Crew Demobe/Remobe: | | | | | |

COMMENTS:

* Commenced Panel 3, a total of 360 vps taken(no overlap shots)
 * Troubleshooting DT occurred today when an LAUX that was returned from repair @ Sercel earlier in the would run test files ok, but would not acquire shot files.
 * Had 2.8 hrs WOS today over 2 periods of time. Have split the time 3/4 chargeable, 1/4 Non charge due to reduced line crew #'s. Still waiting for Santos clearance to come through for 4 new hires so we can sustain contract #'s.
 * 100 extra channels arrived from Sercel today, bringing total channels on crew to 2500.

Spread Movement

| Client: GAOG Spirel 3D | | | Date: Thursday, 8 February 2007 | | | | |
|-------------------------|-----------|------|---------------------------------|-----------|------|------|-----|
| Layout | | | Pickup | | | | |
| Line | Station # | Tot | Line | Station # | Tot | | |
| 2644 | 5269 | 5372 | 104 | 2620 | 5373 | 5476 | 104 |
| 2636 | 5372 | 5181 | 192 | 2628 | 5373 | 5476 | 104 |
| 2628 | 5372 | 5181 | 192 | 2636 | 5373 | 5476 | 104 |
| 2620 | 5372 | 5181 | 192 | 2644 | 5373 | 5476 | 104 |
| | | 1 | | 2652 | 5373 | 5476 | 104 |
| | | 1 | | 2660 | 5373 | 5476 | 104 |
| | | 1 | | 2732 | 5300 | 5181 | 120 |
| | | 1 | | 2724 | 5300 | 5181 | 120 |
| Total Stations : | | 635 | Total Stations: | | 960 | | |

Total Crew #'s: 44 Line crew #'s: 24 Light Vehicle #'s: 20

Equipment Report Bad Phones: 5 Bad Cable: 1

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|----------|-------|--------|-----|------------|----------|----------|-----|----------------------|------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| | | | | | | | | Charge | 0.00 |
| | | | | | | | | Cum.Holes Drilled | 0 |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 |
| | | | | | | | | Consum | |
| | | | | | | | | Biovis | 0 |
| | | | | | | | | 4 x 3/4 | 0 |
| | | | | | | | | 5 x 1/8 | 0 |
| | | | | | | | | Tri Cone 4 3/4 | 0 |
| | | | | | | | | Aqua gel | 0 |
| | | | | | | | | Mlr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

EXPERTEST - LOGGING PRODUCTION

| | | | | | | | | Hrs | Work | 0.00 |
|--|--|--|--|--|--|--|--|----------------------|------|------|
| | | | | | | | | Standby | 0.00 | |
| | | | | | | | | Downtime | 0.00 | |
| | | | | | | | | Kim Trav | 0.00 | |
| | | | | | | | | Trav Hrs | 0.00 | |
| | | | | | | | | Consum | | |
| | | | | | | | | Holecaps | 0 | |
| | | | | | | | | Charge | 0.00 | |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 | |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 | |
| | | | | | | | | Cum.Trav.Klm (Job) | 0.00 | |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 | |

COMMENTS:

Crew Manager

Client Rep



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Mark Kneipp
Client Rep..... Bruce Beer
Weather..... Fine / Hot
DATE..... 10-Feb-07

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's |
|-------|-----------|-----------|------|-------|------|
| 67 | 5356-5420 | 2676-2604 | 0.64 | 0 | 16 |
| 68 | 5420-5236 | 2668-2596 | 5.44 | 0 | 136 |
| 69 | 5420-5236 | 2660-2588 | 5.44 | 0 | 136 |
| 70 | 2536-5292 | 2652-2580 | 2.56 | 0 | 64 |
| 71 | 2536-5292 | 2644-2572 | 2.56 | 0 | 64 |

Daily Totals
VP's: 416
Skips: 0
Lin.Kms: 16.6400
Day.Sq.Klms: 5.2929

Cumulative Totals
Cum. VP's: 38956
Cum.Lin.Kms: 1559.040
Cum.Sq.Klm: 495.900
Lin.Kms.Remaining: 0.000
Sq.Kms.Remaining: 0.000
% Completed: 100.00%
Average Daily Production Sq. Kms: 41.325

HOURS

| Working Time - | Down Time - | Standby Time - |
|-------------------------|--------------------------|-----------------------------|
| Recording: 7.2 | Human Error: | Toolbox/Safety Meeting: 0.3 |
| Requested Experimental: | Troubleshooting: 0.4 | Induction: |
| Recorder Moveup: 0.4 | Recorder: | Weather: |
| Waiting on Spread: | Vibes: 0.1 | Other: |
| Vibe Detour: 1.3 | WOS: | |
| Terrain Detour: | Tests / Other: | |
| Traverse Move: 1.9 | | |
| Panel Move: | Non-Charge Time - | |
| Swath Move: 0.2 | Travel Time: 0.5 | |
| Other: | | |

Daily Totals
Working Time: 11.0
Standby Time: 0.3
Down Time: 0.5
Non-Charge Time: 0.5
Total Day Hrs: 12.3
Cumulative Totals
Working Time(Job): 820.0
Standby Time(Job): 78.7
Down Time(Job): 48.4
Non-Charge Time(Job): 42.0
Total Hrs (Job): 1037.8

COMMENTS:

- * Total of 584 vps taken(168 vps overlap, 416 vps recorded)
- * Vibe DT for tyre pressure check on a vibe

Spread Movement

| Client: GAOG Spinel 3D | | | | Date: Saturday, 10 February 2007 | | | |
|-------------------------|-----------|-----------------------|-----|----------------------------------|-----------|------|-----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2604 | 5372 | 5181 | 192 | 2676 | 5300 | 5181 | 120 |
| 2596 | 5372 | 5181 | 192 | 2668 | 5300 | 5181 | 120 |
| 2588 | 5372 | 5181 | 192 | 2660 | 5372 | 5181 | 192 |
| 2572 | 5372 | 5181 | 192 | | | | |
| Total Stations : | | | 768 | Total Stations: | | | 432 |
| Equipment Report | | Bad Phones: 14 | | Bad Cable: 1 | | | |

Total Crew #'s: 46 Line crew #'s: 26 Light Vehicle #'s: 20

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|----------|-------|--------|-----|------------|----------|----------|-----|----------------------|------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| | | | | | | | | Charge | 0.00 |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 |
| | | | | | | | | Consum | 0 |
| | | | | | | | | Blovis | 0 |
| | | | | | | | | 4 x 3/4 | 0 |
| | | | | | | | | 5 x 1/8 | 0 |
| | | | | | | | | Tri Cone 4 3/4 | 0 |
| | | | | | | | | Aqua gel | 0 |
| | | | | | | | | Mtr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

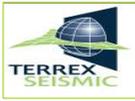
EXPERTEST - LOGGING PRODUCTION

| | Hrs | Work | 0.00 |
|--|-----|----------------------|------|
| | | Standby | 0.00 |
| | | Downtime | 0.00 |
| | | Kim Trav | 0.00 |
| | | Trav Hrs | 0.00 |
| | | Consum | 0 |
| | | Holecaps | 0 |
| | | Charge | 0.00 |
| | | Cum.Charge.Hrs (Job) | 0.00 |
| | | Cum.Stby.Hrs (Job) | 0.00 |
| | | Cum.Trav.Klm (Job) | 0.00 |
| | | Cum.Trav.Hrs (Job) | 0.00 |

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Mark Kneipp
Client Rep..... Bruce Beer
Weather..... Fine / Hot
DATE..... Sunday, 11 February 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's |
|-------|-----------|-----------|------|-------|------|
| 70 | 5300-5420 | 2652-2580 | 2.88 | 0 | 72 |
| 71 | 5300-5420 | 2644-2572 | 2.88 | 0 | 72 |
| 72 | 5420-5252 | 2636-2564 | 4.8 | 0 | 120 |
| 73 | 5420-5252 | 2628-2566 | 4.8 | 0 | 120 |

| Daily Totals | |
|--------------|---------|
| VP's: | 384 |
| Skips: | 0 |
| Lin.Kms: | 15.3600 |
| Day.Sq.Klms: | 4.8857 |

| Cumulative Totals | |
|-----------------------------------|----------|
| Cum. VP's: | 38956 |
| Cum.Lin.Kms: | 1559.040 |
| Cum.Sq.Klms: | 495.900 |
| Lin.Kms.Remaining: | 0.000 |
| Sq.Kms.Remaining: | 0.000 |
| % Completed: | 100.00% |
| Average Daily Production Sq. Kms: | 38.146 |

HOURS

| Working Time - | Down Time - | Standby Time - |
|-------------------------|----------------------|-----------------------------|
| Recording: 8.0 | Human Error: 0.2 | Toolbox/Safety Meeting: 0.3 |
| Requested Experimental: | Troubleshooting: 0.7 | Induction: |
| Recorder Moveup: | Recorder: 0.2 | Weather: |
| Waiting on Spread: | Vibes: 0.2 | Other: |
| Vibe Detour: 0.5 | WOS: | |
| Terrain Detour: | Tests / Other: | |
| Traverse Move: 2.2 | | |
| Panel Move: | | |
| Swath Move: | | |
| Other: | | |

| Non-Charge Time - |
|-------------------|
| Travel Time: 0.3 |

| Daily Totals | |
|-----------------------|--------|
| Working Time: | 10.7 |
| Standby Time: | 0.3 |
| Down Time: | 1.1 |
| Non-Charge Time: | 0.3 |
| Total Day Hrs: | 12.4 |
| Cumulative Totals | |
| Working Time(Job): | 820.0 |
| Standby Time(Job): | 78.7 |
| Down Time(Job): | 48.4 |
| Non-Charge Time(Job): | 42.0 |
| Total Hrs (Job): | 1037.8 |

COMMENTS:

- * Total of 608 vps taken(224 vps overlap, 384 vps recorded)
- * 1 vibe blew a tyre, replaced with spare from camp. Organising more spares to be brought out to crew
- * 16 vp's were repeated yesterday through human error
- * 2 pax sent to Neritus to depeg. Depegging and line checking is now complete for the Neritus 3D.
- * Safety Meeting held in morning

Spread Movement

| Client: GAOG Spirel 3D | | | Date: Sunday, 11 February 2007 | | | | |
|-------------------------|-----------|------|--------------------------------|-----------|------|---------------------|-----|
| Layout | | | Pickup | | | | |
| Line | Station # | Tot | Line | Station # | Tot | | |
| 2564 | 5372 | 5181 | 192 | 2652 | 5372 | 5181 | 192 |
| 2556 | 5372 | 5181 | 192 | 2644 | 5372 | 5181 | 192 |
| 2548 | 5372 | 5181 | 192 | 2636 | 5372 | 5315 | 58 |
| 2540 | 5372 | 5280 | 93 | 2628 | 5372 | 5315 | 58 |
| Total Stations : | | 669 | Total Stations: | | 500 | | |
| Equipment Report | | | Bad Phones: 9 | | | Bad Cable: 0 | |

Total Crew #'s: 46 Line crew #'s: 26 Light Vehicle #'s: 20

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|----------|-------|--------|-----|------------|----------|----------|-----|----------------------|------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| | | | | | | | | Charge | 0.00 |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 |
| | | | | | | | | Consum | |
| | | | | | | | | Blovis | 0 |
| | | | | | | | | 4 x 3/4 | 0 |
| | | | | | | | | 5 x 1/8 | 0 |
| | | | | | | | | Tri Cone 4 3/4 | 0 |
| | | | | | | | | Aqua gel | 0 |
| | | | | | | | | Mtr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

EXPERTEST - LOGGING PRODUCTION

| Hrs | Work | 0.00 |
|-----|----------------------|------|
| | Standby | 0.00 |
| | Downtime | 0.00 |
| | Kim Trav | 0.00 |
| | Trav Hrs | 0.00 |
| | Consum | |
| | Holecaps | 0 |
| | Charge | 0.00 |
| | Cum.Charge.Hrs (Job) | 0.00 |
| | Cum.Stby.Hrs (Job) | 0.00 |
| | Cum.Trav.Klms (Job) | 0.00 |
| | Cum.Trav.Hrs (Job) | 0.00 |

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spirel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Mark Kneipp
Client Rep..... Bruce Beer
Weather..... Fine / Hot
DATE..... Monday, 12 February 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's |
|-------|-----------|-----------|------|-------|------|
| 72 | 5244-5236 | 2636-2564 | 0.64 | 0 | 16 |
| 73 | 5244-5236 | 2628-2556 | 0.64 | 0 | 16 |
| 74 | 5236-5364 | 2620-2548 | 5.44 | 0 | 136 |
| 75 | 5364-5236 | 2612-2540 | 5.44 | 0 | 136 |
| 76 | 5340-5236 | 2604-2532 | 4.48 | 0 | 112 |
| 77 | 5236-5324 | 2596-2524 | 3.84 | 0 | 96 |

Daily Totals
VP's: 512
Skips: 0
Lin.Kms: 20.4800
Day.Sq.Klms: 6.5143

Cumulative Totals
Cum. VP's: 38956
Cum.Lin.Kms: 1559.040
Cum.Sq.Klm: 495.900
Lin.Kms.Remaining: 0.000
Sq.Kms.Remaining: 0.000
% Completed: 100.00%
Average Daily Production Sq. Kms: 35.421

HOURS

| Working Time - | Down Time - | Standby Time - |
|--------------------------------|----------------------|-----------------------------|
| Recording: 7.8 | Human Error: | Toolbox/Safety Meeting: 0.3 |
| Requested Experimental: | Troubleshooting: 0.1 | Induction: |
| Recorder Moveup: Recorder: 0.3 | Vibes: | Weather: |
| Waiting on Spread: Vibes: | WOS: | Other: |
| Vibe Detour: 0.9 | Tests / Other: | Other - |
| Terrain Detour: | | Mobilisation: |
| Traverse Move: 2.8 | | Intraprospect Move: |
| Panel Move: Non-Charge Time - | Travel Time: 0.3 | Spread Layout/Pickup: |
| Swath Move: 0.1 | | Crew Demobe/Remobe: |
| Other: | | |

Daily Totals
Working Time: 11.6
Standby Time: 0.3
Down Time: 0.4
Non-Charge Time: 0.3
Total Day Hrs: 12.6
Cumulative Totals
Working Time(Job): 820.0
Standby Time(Job): 78.7
Down Time(Job): 48.4
Non-Charge Time(Job): 42.0
Total Hrs (Job): 1037.8

COMMENTS:

- * Total of 624 vps taken(112 vps overlap, 512 vps recorded)
- * Recorder DT from system lockups
- *Supply driver to Noccundra to pick up another spare Vibe tyre
- * 4 weeks of freight arrived from Brisbane via Mansells, mechanics rejoicing.

Spread Movement

| Client: GAOG Spirel 3D | | | | Date: Monday, 12 February 2007 | | | |
|-------------------------|-----------|------|-----|--------------------------------|-----------|------|-----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2540 | 5279 | 5181 | 99 | 2636 | 5314 | 5181 | 134 |
| 2532 | 5372 | 5181 | 192 | 2628 | 5314 | 5181 | 134 |
| 2524 | 5372 | 5181 | 192 | 2620 | 5372 | 5181 | 192 |
| 2516 | 5181 | 5340 | 160 | 2612 | 5372 | 5181 | 192 |
| | | | | 2604 | 5181 | 5280 | 100 |
| Total Stations : | | | 643 | Total Stations: | | | 752 |
| Equipment Report | | | | Bad Phones: 7 | | | |
| | | | | Bad Cable: 1 | | | |

Total Crew #'s: 46 Line crew #'s: 26 Light Vehicle #'s: 20

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|----------|-------|--------|-----|------------|----------|----------|-----|----------------------|------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| | | | | | | | | Charge | 0.00 |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 |
| | | | | | | | | Consum | 0 |
| | | | | | | | | Blowis | 0 |
| | | | | | | | | 4 x 3/4 | 0 |
| | | | | | | | | 5 x 1/8 | 0 |
| | | | | | | | | Tri Cone 4 3/4 | 0 |
| | | | | | | | | Aqua gel | 0 |
| | | | | | | | | Mtr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

EXPERTEST - LOGGING PRODUCTION

| | Hrs | Work | 0.00 |
|--|-----|----------------------|------|
| | | Standby | 0.00 |
| | | Downtime | 0.00 |
| | | Kim Trav | 0.00 |
| | | Trav Hrs | 0.00 |
| | | Consum | 0 |
| | | Holecaps | 0 |
| | | Charge | 0.00 |
| | | Cum.Charge.Hrs (Job) | 0.00 |
| | | Cum.Stby.Hrs (Job) | 0.00 |
| | | Cum.Trav.Klm (Job) | 0.00 |
| | | Cum.Trav.Hrs (Job) | 0.00 |

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Mark Kneipp
Client Rep..... Bruce Beer
Weather..... Fine / Warm
DATE..... Tuesday, 13 February 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's |
|-------|-----------|-----------|------|-------|------|
| 76 | 5348-5364 | 2604-2532 | 0.96 | 0 | 24 |
| 77 | 5332-5364 | 2596-2524 | 1.6 | 0 | 40 |
| 78 | 5364-5236 | 2596-2516 | 5.44 | 0 | 136 |
| 79 | 5364-5236 | 2588-2508 | 5.44 | 0 | 136 |
| 80 | 5236-5284 | 2580-2500 | 2.24 | 0 | 56 |
| 81 | 5236-5284 | 2572-2492 | 2.24 | 0 | 56 |

Daily Totals
VP's: 448
Skips: 0
Lin.Kms: 17.9200
Day.Sq.Klms: 5.7000

Cumulative Totals
Cum. VP's: 38956
Cum.Lin.Kms: 1559.040
Cum.Sq.Klm: 495.900
Lin.Kms.Remaining: 0.000
Sq.Kms.Remaining: 0.000
% Completed: 100.00%
Average Daily Production Sq. Kms: 33.060

HOURS

| Working Time - | Down Time - | Standby Time - |
|-------------------------|--------------------------|-----------------------------|
| Recording: 9.5 | Human Error: | Toolbox/Safety Meeting: 0.3 |
| Requested Experimental: | Troubleshooting: 0.3 | Induction: |
| Recorder Moveup: 0.4 | Recorder: 0.1 | Weather: |
| Waiting on Spread: | Vibes: 0.1 | Other: |
| Vibe Detour: 0.4 | WOS: | |
| Terrain Detour: | Tests / Other: | |
| Traverse Move: 1.6 | | |
| Panel Move: | Non-Charge Time - | |
| Swath Move: 0.1 | Travel Time: 0.3 | |
| Other: | | |

Daily Totals
Working Time: 12.0
Standby Time: 0.3
Down Time: 0.5
Non-Charge Time: 0.3
Total Day Hrs: 13.1
Cumulative Totals
Working Time(Job): 820.0
Standby Time(Job): 78.7
Down Time(Job): 48.4
Non-Charge Time(Job): 42.0
Total Hrs (Job): 1037.8

COMMENTS:

- * Total of 600 vps taken(152 vps overlap, 448 vps recorded)
- *Vibe DT from Radio Probs, tracking down some GM328's to swap out
- * Supply Driver returned from Noccundra with another spare vibe tyre

Spread Movement

| Client: GAOG Spirel 3D | | | | Date: Tuesday, 13 February 2007 | | | |
|-------------------------|-----------|------|-----|---------------------------------|-----------|------|-----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2516 | 5341 | 5372 | 32 | 2604 | 5281 | 5372 | 92 |
| 2508 | 5372 | 5181 | 192 | 2596 | 5372 | 5181 | 192 |
| 2500 | 5372 | 5181 | 192 | 2588 | 5372 | 5181 | 192 |
| 2492 | 5372 | 5181 | 192 | 2580 | 5372 | 5181 | 192 |
| 2484 | 5372 | 5309 | 64 | 2572 | 5181 | 5216 | 36 |
| | | | | 2564 | 5181 | 5216 | 36 |
| Total Stations : | | | 672 | Total Stations: | | | 740 |
| Equipment Report | | | | Bad Phones: 7 | | | |
| | | | | Bad Cable: 3 | | | |

Total Crew #'s: 46 Line crew #'s: 26 Light Vehicle #'s: 20

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|----------|-------|--------|-----|------------|----------|----------|-----|----------------------|------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| | | | | | | | | Charge | 0.00 |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 |
| | | | | | | | | Consum | 0 |
| | | | | | | | | Blowis | 0 |
| | | | | | | | | 4 x 3/4 | 0 |
| | | | | | | | | 5 x 1/8 | 0 |
| | | | | | | | | Tri Cone 4 3/4 | 0 |
| | | | | | | | | Aqua gel | 0 |
| | | | | | | | | Mtr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

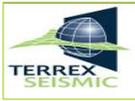
EXPERTEST - LOGGING PRODUCTION

| | Hrs | Work | 0.00 |
|--|-----|----------------------|------|
| | | Standby | 0.00 |
| | | Downtime | 0.00 |
| | | Kim Trav | 0.00 |
| | | Trav Hrs | 0.00 |
| | | Consum | 0 |
| | | Holecaps | 0 |
| | | Charge | 0.00 |
| | | Cum.Charge.Hrs (Job) | 0.00 |
| | | Cum.Stby.Hrs (Job) | 0.00 |
| | | Cum.Trav.Klm (Job) | 0.00 |
| | | Cum.Trav.Hrs (Job) | 0.00 |

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spirel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Mark Kneipp
Client Rep..... Bruce Beer
Weather..... Fine / Warm
DATE..... Wednesday, 14 February 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's |
|-------|-----------|-----------|------|-------|------|
| 80 | 5292-5372 | 2580-2500 | 3.12 | 0 | 78 |
| 81 | 5292-5372 | 2572-2492 | 2.88 | 0 | 72 |
| 82 | 5236-5364 | 2564-2484 | 5.4 | 0 | 135 |
| 83 | 5236-5364 | 2556-2476 | 5.44 | 0 | 136 |
| 84 | 5364-5236 | 2548-2468 | 5.44 | 0 | 136 |

Daily Totals
VP's: 557
Skips: 0
Lin.Kms: 22.2800
Day.Sq.Klms: 7.0868

Cumulative Totals
Cum. VP's: 38956
Cum.Lin.Kms: 1559.040
Cum.Sq.Klms: 495.900
Lin.Kms.Remaining: 0.000
Sq.Kms.Remaining: 0.000
% Completed: 100.00%
Average Daily Production Sq. Kms: 33.060

HOURS

| Working Time - | Down Time - | Standby Time - |
|-------------------------|--------------------------|-----------------------------|
| Recording: 8.3 | Human Error: | Toolbox/Safety Meeting: 0.3 |
| Requested Experimental: | Troubleshooting: 0.2 | Induction: |
| Recorder Moveup: | Recorder: 0.2 | Weather: |
| Waiting on Spread: 0.1 | Vibes: 0.2 | Other: |
| Vibe Detour: 0.2 | WOS: | |
| Terrain Detour: | Tests / Other: | |
| Traverse Move: 2.1 | | |
| Panel Move: | Non-Charge Time - | |
| Swath Move: 0.2 | Travel Time: 0.3 | |
| Other: | | |

Daily Totals
Working Time: 10.9
Standby Time: 0.3
Down Time: 0.6
Non-Charge Time: 0.3
Total Day Hrs: 12.1
Cumulative Totals
Working Time(Job): 820.0
Standby Time(Job): 78.7
Down Time(Job): 48.4
Non-Charge Time(Job): 42.0
Total Hrs (Job): 1037.8

COMMENTS:

- * Total of 559 vps taken(557 vps overlap, 2 vps recorded)
- * Vibe DT from microphone probs & a hose leak
- * Rec DT from line crashes
- * PM & HSE laid out handcarry across salt lake on lines 2428 & 2420, 51 stns
- * Supply driver to Moomba to pick up freight

Spread Movement

| Client: GAOG Spirel 3D | | | | Date: Saturday, 3 February 2007 | | | |
|-----------------------------|-----------|------|-----|---------------------------------|-----------|------|-----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2628 | 5373 | 5476 | 104 | 2332 | 5414 | 5373 | 42 |
| 2636 | 5373 | 5476 | 104 | 2340 | 5373 | 5476 | 104 |
| 2644 | 5373 | 5476 | 104 | 2348 | 5373 | 5476 | 104 |
| 2652 | 5373 | 5476 | 104 | 2356 | 5373 | 5434 | 62 |
| 2660 | 5310 | 5476 | 167 | 2364 | 5373 | 5431 | 59 |
| | | | | 2372 | 5373 | 5429 | 57 |
| | | | | 2380 | 5476 | 5426 | 51 |
| Total Stations : 583 | | | | Total Stations: 479 | | | |
| Equipment Report | | | | Bad Phones: 6 | | | |
| | | | | Bad Cable: 0 | | | |

Total Crew #'s: 46 Line crew #'s: 26 Light Vehicle #'s: 20

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|----------|-------|--------|-----|------------|----------|----------|-----|----------------------|------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| | | | | | | | | Charge | 0.00 |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 |
| | | | | | | | | Consum | 0 |
| | | | | | | | | Blovis | 0 |
| | | | | | | | | 4 x 3/4 | 0 |
| | | | | | | | | 5 x 1/8 | 0 |
| | | | | | | | | Tri Cone 4 3/4 | 0 |
| | | | | | | | | Aqua gel | 0 |
| | | | | | | | | Mtr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

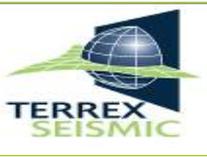
EXPERTEST - LOGGING PRODUCTION

| | Hrs | Work | 0.00 |
|--|-----|----------------------|------|
| | | Standby | 0.00 |
| | | Downtime | 0.00 |
| | | Kim Trav | 0.00 |
| | | Trav Hrs | 0.00 |
| | | Consum | 0 |
| | | Holecaps | 0 |
| | | Charge | 0.00 |
| | | Cum.Charge.Hrs (Job) | 0.00 |
| | | Cum.Stby.Hrs (Job) | 0.00 |
| | | Cum.Trav.Klms (Job) | 0.00 |
| | | Cum.Trav.Hrs (Job) | 0.00 |

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Jon Turner
Client Rep..... Bruce Beer
Weather..... Fine / Warm
DATE..... Sunday, 18 February 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | Daily Totals | |
|-------|-----------|-----------|------|-------|------|-----------------------------------|----------|
| 95 | 5364-5236 | 2452-2380 | 5.44 | 0 | 136 | VP's: | 424 |
| 96 | 5236-5364 | 2444-2372 | 5.44 | 0 | 136 | Skips: | 0 |
| 97 | 5364-5236 | 2436-2364 | 5.44 | 0 | 136 | Lin.Kms: | 16.9600 |
| 98 | 5292-5300 | 2428-2356 | 0.64 | 0 | 16 | Day.Sq.Klms: | 5.3946 |
| | | | | | | Cumulative Totals | |
| | | | | | | Cum. VP's: | 38956 |
| | | | | | | Cum.Lin.Kms: | 1559.040 |
| | | | | | | Cum.Sq.Klm: | 495.900 |
| | | | | | | Lin.Kms.Remaining: | 0.000 |
| | | | | | | Sq.Kms.Remaining: | 0.000 |
| | | | | | | % Completed: | 100.00% |
| | | | | | | Average Daily Production Sq. Kms: | 26.100 |

HOURS

| Working Time - | | | | Down Time - | | Standby Time - | | Daily Totals | |
|-------------------------|-----|--------------------------|-----|-------------------------|-----|-----------------------|--------|--------------------------|------|
| Recording: | 6.7 | Human Error: | | Toolbox/Safety Meeting: | 0.3 | Working Time: | 11.0 | Standby Time: | 0.3 |
| Requested Experimental: | | Troubleshooting: | 0.5 | Induction: | | Down Time: | 0.8 | Non-Charge Time: | 0.2 |
| Recorder Moveup: | | Recorder: | 0.1 | Weather: | | Total Day Hrs: | 12.3 | Cumulative Totals | |
| Waiting on Spread: | | Vibes: | 0.2 | Other: | | Working Time(Job): | 820.0 | Standby Time(Job): | 78.7 |
| Vibe Detour: | 1.4 | WOS: | | Other - | | Down Time(Job): | 48.4 | Non-Charge Time(Job): | 42.0 |
| Terrain Detour: | | Tests / Other: | | Mobilisation: | | Total Hrs (Job): | 1037.8 | | |
| Traverse Move: | 2.8 | | | Intraprospect Move: | | | | | |
| Panel Move: | | Non-Charge Time - | | Spread Layout/Pickup: | | | | | |
| Swath Move: | 0.1 | Travel Time: | 0.2 | Crew Demobe/Remobe: | | | | | |
| Other: | | | | | | | | | |

COMMENTS:

*Total of 497 vps taken(424 vps recorded, 73 vps overlap)
 *HSE and APM to field to assist line crew today.
 *10 more personnel completed 4WD training today.
 *1 dozer returned to recut access on every fifth receiver today, hopefully will reduce detour time.
 *Supply driver to Noccundra today to retrieve last good vibe tyre, more spares to arrive on Wed.
 *Line crew working well, no WOS time today with reduced line numbers.

Spread Movement

| Client: GAOG Spinel 3D | | | | | | | |
|-------------------------|-----------|--------------------|-----|------------------------|-----------|----------|-----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2372 | 5299 | 5181 | 119 | 2460 | 5299 | 5181 | 119 |
| 2364 | 5372 | 5181 | 192 | 2452 | 5181 | 5372 | 192 |
| 2356 | 5372 | 5181 | 192 | 2444 | 5372 | 5181 | 192 |
| 2348 | 5372 | 5181 | 192 | 2436 | 5372 | 5300 | 73 |
| Total Stations : | | | 695 | Total Stations: | | | 576 |
| Equipment Report | | Bad Phones: | | Bad Cable: | | 1 | |

Total Crew #'s: 46 Line crew #'s: 23 Light Vehicle #'s: 20

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|----------|-------|--------|-----|------------|----------|----------|-----|-----------------------------|------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| | | | | | | | | Charge | 0.00 |
| | | | | | | | | Cum.Holes Drilled | 0 |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 |
| | | | | | | | | Consum | |
| | | | | | | | | Blovis | 0 |
| | | | | | | | | 4 x 3/4 | 0 |
| | | | | | | | | 5 x 1/8 | 0 |
| | | | | | | | | Tri Cone 4 3/4 | 0 |
| | | | | | | | | Aqua gel | 0 |
| | | | | | | | | Mtr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

EXPERTEST - LOGGING PRODUCTION

| | | | | | | | | Hrs | Work | 0.00 |
|--|--|--|--|--|--|--|--|----------------------|------|------|
| | | | | | | | | Standby | 0.00 | |
| | | | | | | | | Downtime | 0.00 | |
| | | | | | | | | Kim Trav | 0.00 | |
| | | | | | | | | Trav Hrs | 0.00 | |
| | | | | | | | | Consum | | |
| | | | | | | | | Holecaps | 0 | |
| | | | | | | | | Charge | 0.00 | |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 | |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 | |
| | | | | | | | | Cum.Trav.Klm (Job) | 0.00 | |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 | |

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Jon Turner
Client Rep..... Bruce Beer
Weather..... Fine / Warm
DATE..... Monday, 19 February 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | Daily Totals | |
|-------|-----------|-----------|------|-------|------|-----------------------------------|----------|
| 98 | 5236-5364 | 2428-2356 | 4.8 | 0 | 120 | VP's: | 440 |
| 99 | 5236-5364 | 2420-2348 | 5.44 | 0 | 136 | Skips: | 0 |
| 100 | 5364-5236 | 2412-2340 | 5.44 | 0 | 136 | Lin.Kms: | 17.6000 |
| 101 | 5236-5276 | 2404-2332 | 1.92 | 0 | 48 | Day.Sq.Klms: | 5.5982 |
| | | | | | | Cumulative Totals | |
| | | | | | | Cum. VP's: | 38956 |
| | | | | | | Cum.Lin.Kms: | 1559.040 |
| | | | | | | Cum.Sq.Klm: | 495.900 |
| | | | | | | Lin.Kms.Remaining: | 0.000 |
| | | | | | | Sq.Kms.Remaining: | 0.000 |
| | | | | | | % Completed: | 100.00% |
| | | | | | | Average Daily Production Sq. Kms: | 24.795 |

HOURS

| Working Time - | | | | Down Time - | | Standby Time - | | Daily Totals | |
|-------------------------|-----|-----|--|--------------------|-----|-----------------------|--|--------------------------|--------|
| Recording: | | 8.6 | | Human Error: | | 0.3 | | Working Time: | 11.5 |
| Requested Experimental: | | | | Troubleshooting: | 0.3 | | | Standby Time: | 0.3 |
| Recorder Moveup: | | | | Recorder: | 0.3 | | | Down Time: | 0.6 |
| Waiting on Spread: | | | | Vibes: | | | | Non-Charge Time: | 0.4 |
| Vibe Detour: | 1.2 | | | WOS: | | | | Total Day Hrs: | 12.8 |
| Terrain Detour: | | | | Tests / Other: | | | | Cumulative Totals | |
| Traverse Move: | 1.5 | | | | | | | Working Time(Job): | 820.0 |
| Panel Move: | | | | | | | | Standby Time(Job): | 78.7 |
| Swath Move: | 0.2 | | | | | | | Down Time(Job): | 48.4 |
| Other: | | | | | | | | Non-Charge Time(Job): | 42.0 |
| | | | | | | | | Total Hrs (Job): | 1037.8 |

COMMENTS:

*Total of 567 vps taken(440 vps recorded, 127 vps overlap)
*Steve Tobin, Doug Roberts, Ray Shaw and Chris Carty arrived on crew today.
*Driver training completed today, instructor departed for Brisbane mid afternoon.
*A good days production today, line crew working well.
*1 extra line crew into camp today.

Spread Movement

| Client: GAOG Spinel 3D | | | | | | | |
|-------------------------|-----------|--------------------|-----|------------------------|-----------|----------|-----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2340 | 5372 | 5181 | 192 | 2436 | 5299 | 5181 | 119 |
| 2332 | 5372 | 5181 | 192 | 2428 | 5181 | 5372 | 192 |
| 2324 | 5372 | 5181 | 192 | 2420 | 5181 | 5330 | 150 |
| | | | | 2412 | 5181 | 5300 | 120 |
| Total Stations : | | | 576 | Total Stations: | | | 581 |
| Equipment Report | | Bad Phones: | | Bad Cable: | | 2 | |

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|----------|-------|--------|-----|------------|----------|----------|-----|----------------------|------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| | | | | | | | | Charge | 0.00 |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 |
| | | | | | | | | Consum | 0 |
| | | | | | | | | Blovis | 0 |
| | | | | | | | | 4 x 3/4 | 0 |
| | | | | | | | | 5 x 1/8 | 0 |
| | | | | | | | | Tri Cone 4 3/4 | 0 |
| | | | | | | | | Aqua gel | 0 |
| | | | | | | | | Mtr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

EXPERTEST - LOGGING PRODUCTION

| | Hrs | Work | 0.00 |
|--|-----|----------------------|------|
| | | Standby | 0.00 |
| | | Downtime | 0.00 |
| | | Kim Trav | 0.00 |
| | | Trav Hrs | 0.00 |
| | | Consum | 0 |
| | | Holecaps | 0 |
| | | Charge | 0.00 |
| | | Cum.Charge.Hrs (Job) | 0.00 |
| | | Cum.Stby.Hrs (Job) | 0.00 |
| | | Cum.Trav.Klm (Job) | 0.00 |
| | | Cum.Trav.Hrs (Job) | 0.00 |

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Jon Turner
Client Rep..... Bruce Beer
Weather..... Fine / Warm
DATE..... Tuesday, 20 February 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | Daily Totals | |
|-------|-----------|-----------|------|-------|------|-----------------------------------|----------|
| 101 | 5236-5276 | 2404-2332 | 3.52 | 0 | 88 | VP's: | 368 |
| 102 | 5236-5364 | 2396-2324 | 5.44 | 0 | 136 | Skips: | 0 |
| 103 | 5364-5236 | 2388-2316 | 5.44 | 0 | 136 | Lin.Kms: | 14.7200 |
| 104 | 5236-5276 | 2380-2308 | 0.32 | 0 | 8 | Day.Sq.Klms: | 4.6821 |
| | | | | | | Cumulative Totals | |
| | | | | | | Cum. VP's: | 38956 |
| | | | | | | Cum.Lin.Kms: | 1559.040 |
| | | | | | | Cum.Sq.Klms: | 495.900 |
| | | | | | | Lin.Kms.Remaining: | 0.000 |
| | | | | | | Sq.Kms.Remaining: | 0.000 |
| | | | | | | % Completed: | 100.00% |
| | | | | | | Average Daily Production Sq. Kms: | 23.614 |

HOURS

| Working Time - | | | | Down Time - | | Standby Time - | | Daily Totals | |
|-------------------------|-----|--------------------------|-----|-------------------------|-----|-----------------------|--------|--------------------------|------|
| Recording: | 7.5 | Human Error: | | Toolbox/Safety Meeting: | 0.3 | Working Time: | 11.6 | Standby Time: | 0.3 |
| Requested Experimental: | | Troubleshooting: | 0.4 | Induction: | | Down Time: | 0.6 | Non-Charge Time: | 0.4 |
| Recorder Moveup: | 0.5 | Recorder: | | Weather: | | Total Day Hrs: | 12.9 | Cumulative Totals | |
| Waiting on Spread: | | Vibes: | 0.2 | Other: | | Working Time(Job): | 820.0 | Standby Time(Job): | 78.7 |
| Vibe Detour: | 1.4 | WOS: | | Other - | | Down Time(Job): | 48.4 | Non-Charge Time(Job): | 42.0 |
| Terrain Detour: | | Tests / Other: | | Mobilisation: | | Total Hrs (Job): | 1037.8 | | |
| Traverse Move: | 2.2 | Non-Charge Time - | | Intraprospect Move: | | | | | |
| Panel Move: | | Travel Time: | 0.4 | Spread Layout/Pickup: | | | | | |
| Swath Move: | | | | Crew Demobe/Remobe: | | | | | |
| Other: | | | | | | | | | |

COMMENTS:

*Total of 558 vps taken(368 vps recorded, 190 vps overlap)
*Doug Roberts, Ray Shaw and Chris Carty departed crew today.
*2 Toyotas returned from crew 403 late today along with 4 vibe tyres and new cable cage.
*A good days production today, line crew working well.

Spread Movement

| Client: GAOG Spinel 3D | | | | | | | |
|-------------------------|-----------|--------------------|-----|------------------------|-----------|----------|-----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2316 | 5372 | 5181 | 192 | 2412 | 5299 | 5181 | 119 |
| 2308 | 5372 | 5181 | 192 | 2404 | 5181 | 5372 | 192 |
| 2300 | 5372 | 5181 | 192 | 2396 | 5181 | 5372 | 192 |
| | | | | 2388 | 5181 | 5330 | 150 |
| Total Stations : | | | 576 | Total Stations: | | | 653 |
| Equipment Report | | Bad Phones: | | Bad Cable: | | 2 | |

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|----------|-------|--------|-----|------------|----------|----------|-----|-----------------------------|------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| | | | | | | | | Charge | 0.00 |
| | | | | | | | | Cum.Holes Drilled | 0 |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 |
| | | | | | | | | Consum | 0 |
| | | | | | | | | Blowis | 0 |
| | | | | | | | | 4 x 3/4 | 0 |
| | | | | | | | | 5 x 1/8 | 0 |
| | | | | | | | | Tri Cone 4 3/4 | 0 |
| | | | | | | | | Aqua gel | 0 |
| | | | | | | | | Mtr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

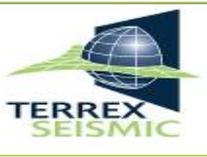
EXPERTEST - LOGGING PRODUCTION

| | | | | | | | | Hrs | Work | 0.00 |
|--|--|--|--|--|--|--|--|-----------------------------|------|------|
| | | | | | | | | Standby | 0.00 | |
| | | | | | | | | Downtime | 0.00 | |
| | | | | | | | | Kim Trav | 0.00 | |
| | | | | | | | | Trav Hrs | 0.00 | |
| | | | | | | | | Consum | 0 | |
| | | | | | | | | Holecaps | 0 | |
| | | | | | | | | Charge | 0.00 | |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 | |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 | |
| | | | | | | | | Cum.Trav.Klms (Job) | 0.00 | |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 | |

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Jon Turner
Client Rep..... Bruce Beer
Weather..... Fine / Warm
DATE..... Wednesday, 21 February 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's |
|-------|-----------|-----------|------|-------|------|
| 104 | 5356-5236 | 2380-2308 | 5.12 | 0 | 128 |
| 105 | 5236-5364 | 2372-2300 | 5.44 | 0 | 136 |
| 106 | 5236-5364 | 2364-2292 | 5.44 | 0 | 136 |

Daily Totals
VP's: 400
Skips: 0
Lin.Kms: 16.0000
Day.Sq.Klms: 5.0893

Cumulative Totals
Cum. VP's: 38956
Cum.Lin.Kms: 1559.040
Cum.Sq.Klm: 495.900
Lin.Kms.Remaining: 0.000
Sq.Kms.Remaining: 0.000
% Completed: 100.00%
Average Daily Production Sq. Kms: 22.541

HOURS

| Working Time - | Down Time - | Standby Time - |
|--------------------------------|--------------------------|-----------------------------|
| Recording: 7.2 | Human Error: | Toolbox/Safety Meeting: 0.3 |
| Requested Experimental: | Troubleshooting: 0.2 | Induction: |
| Recorder Moveup: Recorder: 0.1 | Vibes: | Weather: |
| Waiting on Spread: | WOS: | Other: |
| Vibe Detour: 1.0 | Tests / Other: | Other - |
| Terrain Detour: | | Mobilisation: |
| Traverse Move: 2.4 | | Intraprospect Move: |
| Panel Move: | Non-Charge Time - | Spread Layout/Pickup: |
| Swath Move: 0.1 | Travel Time: 0.5 | Crew Demobe/Remobe: |
| Other: | | |

Daily Totals
Working Time: 10.7
Standby Time: 0.3
Down Time: 0.3
Non-Charge Time: 0.5
Total Day Hrs: 11.8
Cumulative Totals
Working Time(Job): 820.0
Standby Time(Job): 78.7
Down Time(Job): 48.4
Non-Charge Time(Job): 42.0
Total Hrs (Job): 1037.8

COMMENTS:

*Total of 560 vps taken(400 vps recorded, 160 vps overlap)
*Steve Tobin departed crew today.
*Early finish today to service the genset on the recorder, last VP at 6:00pm.
*A good days production today, line crew working well.
*Water tanker picked up from Yambutta and filled at Tarbut near Eromanga, 3 week supply for TS and TC.

Spread Movement

Client: GAOG Spinel 3D

| Layout | | | | Pickup | | | |
|-------------------------|-----------|------|-----|------------------------|-----------|------|-----|
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2292 | 5372 | 5181 | 192 | 2388 | 5331 | 5372 | 42 |
| 2284 | 5372 | 5181 | 192 | 2380 | 5181 | 5372 | 192 |
| 2276 | 5372 | 5181 | 192 | 2372 | 5181 | 5372 | 192 |
| 2268 | 5181 | 5250 | 70 | 2364 | 5181 | 5372 | 192 |
| Total Stations : | | | 646 | Total Stations: | | | 618 |

Total Crew #'s: 46

Line crew #'s: 23

Light Vehicle #'s: 22

Equipment Report

Bad Phones: 4

Bad Cable: 1

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | Standby | Travel Hrs | Downtime | Charge |
|-----------------|-------|--------|-----|------------|----------|----------|--------------------|-----------------|---------|------------|----------|-----------------------------|
| | | | | | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | Total Holes | 0 | | | | Cum.Charge.Hrs (Job) |
| | | | | | | | Cum.Holes Drilled | 0 | | | | Cum.Stby.Hrs (Job) |
| | | | | | | | Holes Today | 0 | | | | Cum.Trav.Hrs (Job) |
| | | | | | | | Holes Remaining | 0 | | | | |
| Personal | | | | | | | Consum | | Blowis | 0 | | |
| Driller | | | | | | | | 4 x 3/4 | 0 | | | |
| Driller | | | | | | | | 5 x 1/8 | 0 | | | |
| Offsider | | | | | | | | Tri Cone 4 3/4 | 0 | | | |
| Offsider | | | | | | | | Aqua gel | 0 | | | |
| Offsider | | | | | | | | Mtr | 0 | | | |
| | | | | | | | | Cum.Mtrs. (Job) | 0 | | | |

COMMENTS:

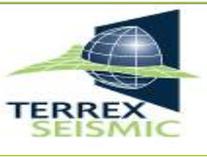
EXPERTEST - LOGGING PRODUCTION

| | Hrs | Work | Standby | Downtime | Kim Trav | Trav Hrs | Charge |
|-----------------|-----|-----------------------------|---------|----------|----------|----------|--------|
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Personal | | | | | | | |
| Logger | | Holecaps | 0 | | | | |
| | | Charge | 0.00 | | | | |
| | | Cum.Charge.Hrs (Job) | 0.00 | | | | |
| | | Cum.Stby.Hrs (Job) | 0.00 | | | | |
| | | Cum.Trav.Klm (Job) | 0.00 | | | | |
| | | Cum.Trav.Hrs (Job) | 0.00 | | | | |

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
 Survey Name..... Spinel 3D
 Area..... PEL's 91 - 106
 State..... SA

CREW 402
 Party Manager.. Jon Turner
 Client Rep..... Bruce Beer
 Weather..... Fine / Warm
 DATE..... Thursday, 22 February 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's |
|-------|-----------|-----------|------|-------|------|
| 107 | 5236-5364 | 2356-2284 | 5.44 | 0 | 136 |
| 108 | 5236-5364 | 2348-2276 | 5.44 | 0 | 136 |
| 109 | 5236-5364 | 2340-2268 | 5.44 | 0 | 136 |

Daily Totals
 VP's: 408
 Skips: 0
 Lin.Kms: 16.3200
 Day.Sq.Klms: 5.1911

Cumulative Totals
 Cum. VP's: 38956
 Cum.Lin.Kms: 1559.040
 Cum.Sq.Klms: 495.900
 Lin.Kms.Remaining: 0.000
 Sq.Kms.Remaining: 0.000
 % Completed: 100.00%
 Average Daily Production Sq. Kms: 21.561

HOURS

| Working Time - | | Down Time - | | Standby Time - | |
|-------------------------|-----|--------------------------|-----|-------------------------|-----|
| Recording: | 7.7 | Human Error: | | Toolbox/Safety Meeting: | 0.3 |
| Requested Experimental: | | Troubleshooting: | | Induction: | |
| Recorder Moveup: | | Recorder: | 0.1 | Weather: | |
| Waiting on Spread: | | Vibes: | 0.6 | Other: | |
| Vibe Detour: | 1.3 | WOS: | | | |
| Terrain Detour: | | Tests / Other: | | Other - | |
| Traverse Move: | 2.3 | | | Mobilisation: | |
| Panel Move: | | Non-Charge Time - | | Intraprospect Move: | |
| Swath Move: | 0.1 | Travel Time: | 0.5 | Spread Layout/Pickup: | |
| Other: | | | | Crew Demobe/Remobe: | |

Daily Totals
 Working Time: 11.4
 Standby Time: 0.3
 Down Time: 0.7
 Non-Charge Time: 0.5
 Total Day Hrs: 12.9
Cumulative Totals
 Working Time(Job): 820.0
 Standby Time(Job): 78.7
 Down Time(Job): 48.4
 Non-Charge Time(Job): 42.0
 Total Hrs (Job): 1037.8

COMMENTS:

*Total of 528 vps taken(408 vps recorded, 120 vps overlap)
 *Crew change today, 8 personnel in and 4 out.
 *40 000 litre water tanker arrived in camp late today, drinking water sufficient for 3 weeks.
 *Vibe downtime today was due to 2 blown hydraulic hoses, spares on crew and will be repaired tomorrow.

Spread Movement

| Client: GAOG Spinel 3D | | | | | | | |
|-------------------------|-----------|--------------------|-----|------------------------|-----------|----------|-----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2268 | 5251 | 5372 | 122 | 2356 | 5181 | 5372 | 192 |
| 2260 | 5372 | 5181 | 192 | 2348 | 5181 | 5330 | 150 |
| 2252 | 5372 | 5181 | 192 | 2340 | 5181 | 5330 | 150 |
| Total Stations : | | | 506 | Total Stations: | | | 492 |
| Equipment Report | | Bad Phones: | | Bad Cable: | | 1 | |

Total Crew #'s: 49 Line crew #'s: 26 Light Vehicle #'s: 22

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|----------|-------|--------|-----|------------|----------|----------|-----|----------------------|------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| | | | | | | | | Charge | 0.00 |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 |
| | | | | | | | | Consum | 0 |
| | | | | | | | | Blowis | 0 |
| | | | | | | | | 4 x 3/4 | 0 |
| | | | | | | | | 5 x 1/8 | 0 |
| | | | | | | | | Tri Cone 4 3/4 | 0 |
| | | | | | | | | Aqua gel | 0 |
| | | | | | | | | Mtr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

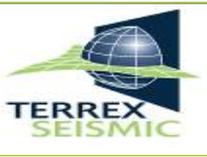
EXPERTEST - LOGGING PRODUCTION

| | Hrs | Work | 0.00 |
|--|-----|----------------------|------|
| | | Standby | 0.00 |
| | | Downtime | 0.00 |
| | | Kim Trav | 0.00 |
| | | Trav Hrs | 0.00 |
| | | Consum | 0 |
| | | Holecaps | 0 |
| | | Charge | 0.00 |
| | | Cum.Charge.Hrs (Job) | 0.00 |
| | | Cum.Stby.Hrs (Job) | 0.00 |
| | | Cum.Trav.Klms (Job) | 0.00 |
| | | Cum.Trav.Hrs (Job) | 0.00 |

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Jon Turner
Client Rep..... Terry Grocke
Weather..... Fine / Warm
DATE..... Friday, 23 February 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | Daily Totals | |
|-------|-----------|-----------|------|-------|------|-----------------------------------|----------|
| 110 | 5364-5236 | 2332-2260 | 5.44 | 0 | 136 | VP's: | 480 |
| 111 | 5364-5236 | 2324-2252 | 5.44 | 0 | 136 | Skips: | 0 |
| 112 | 5236-5332 | 2316-2244 | 4.16 | 0 | 104 | Lin.Kms: | 19.2000 |
| 113 | 5236-5332 | 2308-2236 | 4.16 | 0 | 104 | Day.Sq.Klms: | 6.1071 |
| | | | | | | Cumulative Totals | |
| | | | | | | Cum. VP's: | 38956 |
| | | | | | | Cum.Lin.Kms: | 1559.040 |
| | | | | | | Cum.Sq.Klms: | 495.900 |
| | | | | | | Lin.Kms.Remaining: | 0.000 |
| | | | | | | Sq.Kms.Remaining: | 0.000 |
| | | | | | | % Completed: | 100.00% |
| | | | | | | Average Daily Production Sq. Kms: | 20.662 |

HOURS

| Working Time - | | | | Down Time - | | Standby Time - | | Daily Totals | |
|-------------------------|-----|-----|--|--------------------------|-----|-------------------------|-----|--------------------------|--------|
| Recording: | | 8.9 | | Human Error: | | Toolbox/Safety Meeting: | 0.3 | Working Time: | 11.2 |
| Requested Experimental: | | | | Troubleshooting: | 0.3 | Induction: | | Standby Time: | 0.3 |
| Recorder Moveup: | | | | Recorder: | 0.2 | Weather: | | Down Time: | 0.7 |
| Waiting on Spread: | | | | Vibes: | 0.2 | Other: | | Non-Charge Time: | 0.5 |
| Vibe Detour: | 0.6 | | | WOS: | | | | Total Day Hrs: | 12.7 |
| Terrain Detour: | | | | Tests / Other: | | Other - | | Cumulative Totals | |
| Traverse Move: | 1.7 | | | | | Mobilisation: | | Working Time(Job): | 820.0 |
| Panel Move: | | | | Non-Charge Time - | | Intraprospect Move: | | Standby Time(Job): | 78.7 |
| Swath Move: | | | | Travel Time: | 0.5 | Spread Layout/Pickup: | | Down Time(Job): | 48.4 |
| Other: | | | | | | Crew Demobe/Remobe: | | Non-Charge Time(Job): | 42.0 |
| | | | | | | | | Total Hrs (Job): | 1037.8 |

COMMENTS:

*Total of 592 vps taken(480 vps recorded, 112 vps overlap)
 *Problems repairing blown hoses on vibs today, back on line at lunch time.
 *PM and HSE scouted new camp site today, will move Friday or Saturday next week.
 *A good days production today, shooting on doubles all day.

Spread Movement

| Client: GAOG Spinel 3D | | | | | | | | |
|-------------------------|-----------|------|-----|------------------------|-----------|------|-------------------|---|
| Layout | | | | Pickup | | | | |
| Line | Station # | Tot | | Line | Station # | Tot | | |
| 2244 | 5181 | 5372 | 192 | 2348 | 5331 | 5372 | 42 | |
| 2236 | 5372 | 5181 | 192 | 2340 | 5331 | 5372 | 42 | |
| 2228 | 5372 | 5300 | 73 | 2332 | 5181 | 5372 | 192 | |
| 2220 | 5372 | 5300 | 73 | 2324 | 5181 | 5372 | 192 | |
| | | | | 2316 | 5181 | 5200 | 20 | |
| | | | | 2308 | 5181 | 5200 | 20 | |
| Total Stations : | | | 530 | Total Stations: | | | 508 | |
| Equipment Report | | | | Bad Phones: | | 6 | Bad Cable: | 0 |

Total Crew #'s: 48 Line crew #'s: 25 Light Vehicle #'s: 22

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|----------|-------|--------|-----|------------|----------|----------|-----|----------------------|------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| | | | | | | | | Charge | 0.00 |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 |
| | | | | | | | | Consum | 0 |
| | | | | | | | | Blowis | 0 |
| | | | | | | | | 4 x 3/4 | 0 |
| | | | | | | | | 5 x 1/8 | 0 |
| | | | | | | | | Tri Cone 4 3/4 | 0 |
| | | | | | | | | Aqua gel | 0 |
| | | | | | | | | Mtr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

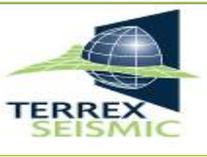
EXPERTEST - LOGGING PRODUCTION

| Hrs | Work | 0.00 |
|-----|----------------------|------|
| | Standby | 0.00 |
| | Downtime | 0.00 |
| | Kim Trav | 0.00 |
| | Trav Hrs | 0.00 |
| | Consum | 0 |
| | Holecaps | 0 |
| | Charge | 0.00 |
| | Cum.Charge.Hrs (Job) | 0.00 |
| | Cum.Stby.Hrs (Job) | 0.00 |
| | Cum.Trav.Klms (Job) | 0.00 |
| | Cum.Trav.Hrs (Job) | 0.00 |

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Jon Turner
Client Rep..... Terry Grocke
Weather..... Fine / Warm
DATE..... Saturday, 24 February 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | Daily Totals | | |
|-------|-----------|-----------|------|-------|------|--------------------------|-----------------------------------|----------|
| 112 | 5340-5364 | 2316-2244 | 1.28 | 0 | 32 | VP's: | 384 | |
| 113 | 5340-5364 | 2308-2236 | 1.28 | 0 | 32 | Skips: | 0 | |
| 114 | 5364-5236 | 2300-2228 | 5.44 | 0 | 136 | Lin.Kms: | 15.3600 | |
| 115 | 5364-5236 | 2292-2220 | 5.44 | 0 | 136 | Day.Sq.Klms: | 4.8857 | |
| 116 | 5326-5252 | 2284-2212 | 0.96 | 0 | 24 | Cumulative Totals | | |
| 117 | 5326-5252 | 2276-2204 | 0.96 | 0 | 24 | Cum. VP's: | 38956 | |
| | | | | | | | Cum.Lin.Kms: | 1559.040 |
| | | | | | | | Cum.Sq.Klms: | 495.900 |
| | | | | | | | Lin.Kms.Remaining: | 0.000 |
| | | | | | | | Sq.Kms.Remaining: | 0.000 |
| | | | | | | | % Completed: | 100.00% |
| | | | | | | | Average Daily Production Sq. Kms: | 19.836 |

HOURS

| Working Time - | | Down Time - | | Standby Time - | | Daily Totals | |
|-------------------------|-----|--------------------------|-----|-------------------------|-----|--------------------------|--------|
| Recording: | 8.0 | Human Error: | | Toolbox/Safety Meeting: | 0.3 | Working Time: | 10.9 |
| Requested Experimental: | | Troubleshooting: | 0.3 | Induction: | | Standby Time: | 0.3 |
| Recorder Moveup: | 0.5 | Recorder: | 0.4 | Weather: | | Down Time: | 0.8 |
| Waiting on Spread: | | Vibes: | 0.1 | Other: | | Non-Charge Time: | 0.6 |
| Vibe Detour: | 0.4 | WOS: | | Other - | | Total Day Hrs: | 12.6 |
| Terrain Detour: | | Tests / Other: | | Mobilisation: | | Cumulative Totals | |
| Traverse Move: | 1.9 | Non-Charge Time - | | Intraprospect Move: | | Working Time(Job): | 820.0 |
| Panel Move: | | Travel Time: | 0.6 | Spread Layout/Pickup: | | Standby Time(Job): | 78.7 |
| Swath Move: | 0.1 | | | Crew Demobe/Remobe: | | Down Time(Job): | 48.4 |
| Other: | | | | | | Non-Charge Time(Job): | 42.0 |
| | | | | | | Total Hrs (Job): | 1037.8 |

COMMENTS:

*Total of 384 vps taken(608 vps recorded, 224 vps overlap)
 *Recorder downtime today was due to 2 lockups and 4 omit files.
 *A good days production today, shooting on doubles all day.
 *Completed vibe overlap on east of panel today, all VP's to the end of this panel will be production from tomorrow

Spread Movement

| Client: GAOG Spinel 3D | | | | | | | |
|-------------------------|-----------|--------------------|-----|------------------------|-----------|----------|-----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2228 | 5299 | 5181 | 119 | 2316 | 5201 | 5372 | 172 |
| 2220 | 5299 | 5181 | 119 | 2308 | 5201 | 5372 | 172 |
| 2212 | 5372 | 5181 | 192 | 2300 | 5200 | 5372 | 173 |
| 2204 | 5372 | 5181 | 192 | 2292 | 5200 | 5372 | 173 |
| 2196 | 5372 | 5350 | 23 | | | | |
| 2188 | 5372 | 5350 | 23 | | | | |
| Total Stations : | | | 668 | Total Stations: | | | 690 |
| Equipment Report | | Bad Phones: | | Bad Cable: | | 3 | |

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|--------------------|-------|--------|-----|------------|----------|----------|----------|----------------------|---------------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| Total Holes | | | | | | | 0 | Charge | 0.00 |
| Cum.Holes Drilled | | | | | | | 0 | Cum.Charge.Hrs (Job) | 0.00 |
| Holes Today | | | | | | | 0 | Cum.Stby.Hrs (Job) | 0.00 |
| Holes Remaining | | | | | | | 0 | Cum.Trav.Hrs (Job) | 0.00 |
| Personal | | | | | | | | Consum | Blowis |
| Driller | | | | | | | | 4 x 3/4 | 0 |
| Driller | | | | | | | | 5 x 1/8 | 0 |
| Offsider | | | | | | | | Tri Cone 4 3/4 | 0 |
| Offsider | | | | | | | | Aqua gel | 0 |
| Offsider | | | | | | | | Mtr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

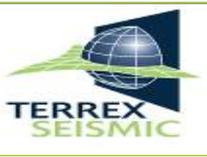
EXPERTEST - LOGGING PRODUCTION

| | | | | | | | | Hrs | Work | 0.00 |
|-----------------|--|--|--|--|--|--|--|----------------------|-----------------|------|
| | | | | | | | | Standby | 0.00 | |
| | | | | | | | | Downtime | 0.00 | |
| | | | | | | | | Kim Trav | 0.00 | |
| | | | | | | | | Trav Hrs | 0.00 | |
| Personal | | | | | | | | Consum | Holecaps | |
| Logger | | | | | | | | | 0 | |
| | | | | | | | | Charge | 0.00 | |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 | |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 | |
| | | | | | | | | Cum.Trav.Klms (Job) | 0.00 | |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 | |

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Jon Turner
Client Rep..... Terry Grocke
Weather..... Fine / Warm / Windy
DATE..... Sunday, 25 February 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's |
|-------|-----------|-----------|------|-------|------|
| 116 | 5260-5364 | 2284-2212 | 4.48 | 0 | 112 |
| 117 | 5260-5364 | 2276-2204 | 4.48 | 0 | 112 |
| 118 | 5364-5236 | 2268-2196 | 5.12 | 0 | 128 |
| 119 | 5364-5236 | 2260-2188 | 5.2 | 0 | 130 |

Daily Totals
VP's: 482
Skips: 0
Lin.Kms: 19.2800
Day.Sq.Klms: 6.1326

Cumulative Totals
Cum. VP's: 38956
Cum.Lin.Kms: 1559.040
Cum.Sq.Klm: 495.900
Lin.Kms.Remaining: 0.000
Sq.Kms.Remaining: 0.000
% Completed: 100.00%
Average Daily Production Sq. Kms: 19.073

HOURS

| Working Time - | Down Time - | Standby Time - |
|-------------------------|--------------------------|-----------------------------|
| Recording: 8.0 | Human Error: | Toolbox/Safety Meeting: 0.3 |
| Requested Experimental: | Troubleshooting: 0.6 | Induction: |
| Recorder Moveup: | Recorder: 0.1 | Weather: 0.1 |
| Waiting on Spread: | Vibes: 0.1 | Other: |
| Vibe Detour: 0.2 | WOS: | Other - |
| Terrain Detour: | Tests / Other: | Mobilisation: |
| Traverse Move: 1.5 | | Intraprospect Move: |
| Panel Move: | Non-Charge Time - | Spread Layout/Pickup: |
| Swath Move: 0.4 | Travel Time: 0.7 | Crew Demobe/Remobe: |
| Other: | | |

Daily Totals
Working Time: 10.1
Standby Time: 0.4
Down Time: 0.8
Non-Charge Time: 0.7
Total Day Hrs: 12.0
Cumulative Totals
Working Time(Job): 820.0
Standby Time(Job): 78.7
Down Time(Job): 48.4
Non-Charge Time(Job): 42.0
Total Hrs (Job): 1037.8

COMMENTS:

*Total of 482 vps taken(650 vps recorded, 168 vps overlap)
*Recorder downtime today was due to positioning errors.
*A good days production today, shooting on doubles all day.
*Amendment to yesterdays report, still had 168 overlap VP's today. Overlap now completed, all VP's now production.
*Dust storm late today, 0.1 standby for weather. Visibility down to under 10 meters at times.

Spread Movement

| Client: GAOG Spinel 3D | | | | | | | |
|-------------------------|-----------|--------------------|-----|------------------------|-----------|----------|-----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2196 | 5349 | 5181 | 169 | 2300 | 5199 | 5181 | 19 |
| 2188 | 5349 | 5181 | 169 | 2292 | 5199 | 5181 | 19 |
| 2180 | 5372 | 5181 | 192 | 2284 | 5181 | 5372 | 192 |
| 2172 | 5372 | 5181 | 192 | 2276 | 5181 | 5372 | 192 |
| | | | | 2268 | 5372 | 5300 | 73 |
| | | | | 2260 | 5372 | 5300 | 73 |
| Total Stations : | | | 722 | Total Stations: | | | 568 |
| Equipment Report | | Bad Phones: | | Bad Cable: | | 3 | |

Total Crew #'s: 48 Line crew #'s: 25 Light Vehicle #'s: 22

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|-----------------|-------|--------|-----|------------|----------|----------|-----|----------------------|------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| | | | | | | | | Charge | 0.00 |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 |
| Personal | | | | | | | | Consum | |
| Driller | | | | | | | | Blovis | 0 |
| Driller | | | | | | | | 4 x 3/4 | 0 |
| Offsider | | | | | | | | 5 x 1/8 | 0 |
| Offsider | | | | | | | | Tri Cone 4 3/4 | 0 |
| Offsider | | | | | | | | Aqua gel | 0 |
| | | | | | | | | Mtr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

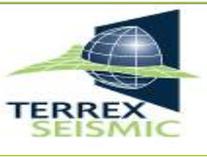
EXPERTEST - LOGGING PRODUCTION

| | Hrs | Work | 0.00 |
|-----------------|-----|----------------------|------|
| | | Standby | 0.00 |
| | | Downtime | 0.00 |
| | | Kim Trav | 0.00 |
| | | Trav Hrs | 0.00 |
| Personal | | Consum | |
| Logger | | Holecaps | 0 |
| | | Charge | 0.00 |
| | | Cum.Charge.Hrs (Job) | 0.00 |
| | | Cum.Stby.Hrs (Job) | 0.00 |
| | | Cum.Trav.Klm (Job) | 0.00 |
| | | Cum.Trav.Hrs (Job) | 0.00 |

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Jon Turner
Client Rep..... Terry Grocke
Weather..... Fine / Warm
DATE..... Monday, 26 February 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's |
|-------|-----------|-----------|------|-------|------|
| 118 | 5236 | 2268-2196 | 0.32 | 0 | 8 |
| 119 | 5236-5244 | 2260-2188 | 0.56 | 0 | 14 |
| 120 | 5236-5372 | 2252-2180 | 5.76 | 0 | 144 |
| 121 | 5236-5372 | 2244-2172 | 5.76 | 0 | 144 |
| 122 | 5372-5236 | 2236-2164 | 5.76 | 0 | 144 |
| 123 | 5372-5236 | 2228-2156 | 5.76 | 0 | 144 |
| 124 | 5236 | 2220-2148 | 0.28 | 0 | 7 |

Daily Totals
VP's: 605
Skips: 0
Lin.Kms: 24.2000
Day.Sq.Klms: 7.6975

Cumulative Totals
Cum. VP's: 38956
Cum.Lin.Kms: 1559.040
Cum.Sq.Klm: 495.900
Lin.Kms.Remaining: 0.000
Sq.Kms.Remaining: 0.000
% Completed: 100.00%
Average Daily Production Sq. Kms: 18.367

HOURS

| Working Time - | | Down Time - | | Standby Time - | |
|-------------------------|-----|--------------------------|-----|-------------------------|-----|
| Recording: | 7.7 | Human Error: | | Toolbox/Safety Meeting: | 0.3 |
| Requested Experimental: | | Troubleshooting: | 0.1 | Induction: | |
| Recorder Moveup: | | Recorder: | 0.6 | Weather: | |
| Waiting on Spread: | | Vibes: | 0.1 | Other: | |
| Vibe Detour: | 0.7 | WOS: | | | |
| Terrain Detour: | | Tests / Other: | | | |
| Traverse Move: | 1.9 | | | | |
| Panel Move: | | Non-Charge Time - | | | |
| Swath Move: | 0.3 | Travel Time: | 0.7 | | |
| Other: | | | | | |

Daily Totals
Working Time: 10.6
Standby Time: 0.3
Down Time: 0.8
Non-Charge Time: 0.7
Total Day Hrs: 12.4
Cumulative Totals
Working Time(Job): 820.0
Standby Time(Job): 78.7
Down Time(Job): 48.4
Non-Charge Time(Job): 42.0
Total Hrs (Job): 1037.8

COMMENTS:

*Total of 605 vps taken, all production.
*Recorder downtime today was due to 5 system lockups. Excess static charge build up due to overnight dust storm.
*One line crew out today due to knee injury, see HSE report for further details.
*Line crew working well, a good days production.

Spread Movement

Client: GAOG Spinel 3D

| Layout | | | | Pickup | | | |
|-------------------------|-----------|------|-----|------------------------|-----------|------|-----|
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2164 | 5372 | 5181 | 192 | 2268 | 5299 | 5181 | 119 |
| 2156 | 5372 | 5181 | 192 | 2260 | 5299 | 5181 | 119 |
| 2148 | 5372 | 5181 | 192 | 2252 | 5181 | 5372 | 192 |
| 2140 | 5372 | 5330 | 43 | 2244 | 5181 | 5372 | 192 |
| 2132 | 5372 | 5330 | 43 | 2236 | 5372 | 5300 | 73 |
| | | | | 2228 | 5372 | 5300 | 73 |
| Total Stations : | | | 662 | Total Stations: | | | 768 |

Total Crew #'s: 47 Line crew #'s: 24 Light Vehicle #'s: 22

Equipment Report Bad Phones: 8 Bad Cable: 0

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|----------|-------|--------|-----|------------|----------|----------|-----|----------------------|------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| | | | | | | | | Charge | 0.00 |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 |
| | | | | | | | | Consum | 0 |
| | | | | | | | | Blowis | 0 |
| | | | | | | | | 4 x 3/4 | 0 |
| | | | | | | | | 5 x 1/8 | 0 |
| | | | | | | | | Tri Cone 4 3/4 | 0 |
| | | | | | | | | Aqua gel | 0 |
| | | | | | | | | Mtr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

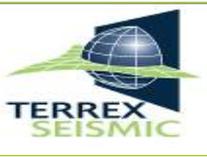
EXPERTEST - LOGGING PRODUCTION

| | Hrs | Work | 0.00 |
|--|-----|----------------------|------|
| | | Standby | 0.00 |
| | | Downtime | 0.00 |
| | | Kim Trav | 0.00 |
| | | Trav Hrs | 0.00 |
| | | Consum | 0 |
| | | Holecaps | 0 |
| | | Charge | 0.00 |
| | | Cum.Charge.Hrs (Job) | 0.00 |
| | | Cum.Stby.Hrs (Job) | 0.00 |
| | | Cum.Trav.Klm (Job) | 0.00 |
| | | Cum.Trav.Hrs (Job) | 0.00 |

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Jon Turner
Client Rep..... Terry Grocke
Weather..... Fine / Warm
DATE..... Thursday, 1 March 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | Daily Totals | |
|-------|-----------|-----------|------|-------|------|-----------------------------------|----------|
| 131 | 5236-5372 | 2164-2092 | 1.92 | 0 | 48 | VP's: | 544 |
| 132 | 5372-5236 | 2156-2084 | 5.76 | 0 | 144 | Skips: | 0 |
| 133 | 5372-5236 | 2148-2076 | 5.76 | 0 | 144 | Lin.Kms: | 21.7600 |
| 134 | 5236-5372 | 2140-2068 | 5.76 | 0 | 144 | Day.Sq.Klms: | 6.9214 |
| 135 | 5236-5292 | 2132-2060 | 2.56 | 0 | 64 | | |
| | | | | | | Cumulative Totals | |
| | | | | | | Cum. VP's: | 38956 |
| | | | | | | Cum.Lin.Kms: | 1559.040 |
| | | | | | | Cum.Sq.Klms: | 495.900 |
| | | | | | | Lin.Kms.Remaining: | 0.000 |
| | | | | | | Sq.Kms.Remaining: | 0.000 |
| | | | | | | % Completed: | 100.00% |
| | | | | | | Average Daily Production Sq. Kms: | 16.530 |

HOURS

| Working Time - | | | | Down Time - | | Standby Time - | | Daily Totals | |
|-------------------------|-----|-----|--|--------------------------|-----|-------------------------|-----|--------------------------|--------|
| Recording: | | 6.8 | | Human Error: | | Toolbox/Safety Meeting: | 0.3 | Working Time: | 11.1 |
| Requested Experimental: | | | | Troubleshooting: | 0.1 | Induction: | | Standby Time: | 0.3 |
| Recorder Moveup: | | | | Recorder: | 0.2 | Weather: | | Down Time: | 0.5 |
| Waiting on Spread: | | | | Vibes: | 0.2 | Other: | | Non-Charge Time: | 1.0 |
| Vibe Detour: | 0.8 | | | WOS: | | | | Total Day Hrs: | 12.9 |
| Terrain Detour: | | | | Tests / Other: | | Other - | | Cumulative Totals | |
| Traverse Move: | 3.3 | | | | | Mobilisation: | | Working Time(Job): | 820.0 |
| Panel Move: | | | | Non-Charge Time - | | Intraprospect Move: | | Standby Time(Job): | 78.7 |
| Swath Move: | 0.2 | | | Travel Time: | 1.0 | Spread Layout/Pickup: | | Down Time(Job): | 48.4 |
| Other: | | | | | | Crew Demobe/Remobe: | | Non-Charge Time(Job): | 42.0 |
| | | | | | | | | Total Hrs (Job): | 1037.8 |

COMMENTS:

*Total of 544 vps taken, all production.
*Crew change today, 14 out on leave and 12 in, 6 more due in tomorrow. 26 line crew personnel in the field.
*A better days production today, vibes still having trouble with larger dunes in the southern end of the prospect

Spread Movement

Client: GAOG Spinel 3D

| Layout | | | | Pickup | | | |
|-------------------------|-----------|------|-----|------------------------|-----------|------|-----|
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2076 | 5238 | 5372 | 135 | 2164 | 5321 | 5372 | 52 |
| 2068 | 5372 | 5181 | 192 | 2156 | 5372 | 5181 | 192 |
| 2060 | 5372 | 5181 | 192 | 2148 | 5181 | 5372 | 192 |
| 2052 | 5372 | 5291 | 82 | 2140 | 5372 | 5285 | 88 |
| Total Stations : | | | 601 | Total Stations: | | | 524 |

Total Crew #'s: 45

Line crew #'s: 26

Light Vehicle #'s: 22

Equipment Report

Bad Phones: 12

Bad Cable: 0

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|----------|-------|--------|-----|------------|----------|----------|-----|----------------------|-------------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| | | | | | | | | Total Holes | 0 |
| | | | | | | | | Cum.Holes Drilled | 0 |
| | | | | | | | | Charge | 0.00 |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 |
| | | | | | | | | Consum | 0 |
| | | | | | | | | Blowis | 0 |
| | | | | | | | | 4 x 3/4 | 0 |
| | | | | | | | | 5 x 1/8 | 0 |
| | | | | | | | | Tri Cone 4 3/4 | 0 |
| | | | | | | | | Aqua gel | 0 |
| | | | | | | | | Mtr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

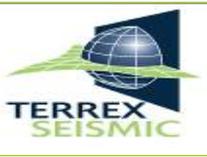
EXPERTEST - LOGGING PRODUCTION

| | | | | | | | | Hrs | Work | 0.00 |
|--|--|--|--|--|--|--|--|----------------------|-------------|------|
| | | | | | | | | Standby | 0.00 | |
| | | | | | | | | Downtime | 0.00 | |
| | | | | | | | | Kim Trav | 0.00 | |
| | | | | | | | | Trav Hrs | 0.00 | |
| | | | | | | | | Consum | 0 | |
| | | | | | | | | Holecaps | 0 | |
| | | | | | | | | Charge | 0.00 | |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 | |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 | |
| | | | | | | | | Cum.Trav.Klms (Job) | 0.00 | |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 | |

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Jon Turner
Client Rep..... Terry Grocke
Weather..... Fine / Hot
DATE..... Saturday, 3 March 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | Daily Totals | | |
|-------|-----------|-----------|------|-------|------|--------------------------|-----------------------------------|---------|
| 138 | 5268-5236 | 2108-2036 | 1.6 | 0 | 40 | VP's: | 528 | |
| 139 | 5268-5236 | 2100-2028 | 1.6 | 0 | 40 | Skips: | 0 | |
| 140 | 5236-5372 | 2092-2020 | 5.76 | 0 | 144 | Lin.Kms: | 21.1200 | |
| 141 | 5372-5236 | 2084-2012 | 5.76 | 0 | 144 | Day.Sq.Klms: | 6.7179 | |
| 142 | 5372-5236 | 2076-2004 | 5.76 | 0 | 144 | Cumulative Totals | | |
| 143 | 5236 | 2068-1996 | 0.32 | 0 | 8 | Cum. VP's: | 38956 | |
| 144 | 5236 | 2060-1988 | 0.32 | 0 | 8 | Cum.Lin.Kms: | 1559.040 | |
| | | | | | | | Cum.Sq.Klm: | 495.900 |
| | | | | | | | Lin.Kms.Remaining: | 0.000 |
| | | | | | | | Sq.Kms.Remaining: | 0.000 |
| | | | | | | | % Completed: | 100.00% |
| | | | | | | | Average Daily Production Sq. Kms: | 15.497 |

HOURS

| Working Time - | | | | Down Time - | | Standby Time - | | Daily Totals | |
|-------------------------|-----|--------------------------|-----|-------------------------|-----|-----------------------|--------|--------------------------|------|
| Recording: | 6.0 | Human Error: | | Toolbox/Safety Meeting: | 0.3 | Working Time: | 9.7 | Standby Time: | 0.3 |
| Requested Experimental: | | Troubleshooting: | 0.3 | Induction: | | Down Time: | 0.7 | Non-Charge Time: | 0.7 |
| Recorder Moveup: | 0.6 | Recorder: | 0.4 | Weather: | | Total Day Hrs: | 11.4 | Cumulative Totals | |
| Waiting on Spread: | | Vibes: | | Other: | | Working Time(Job): | 820.0 | Standby Time(Job): | 78.7 |
| Vibe Detour: | 0.7 | WOS: | | Other - | | Down Time(Job): | 48.4 | Non-Charge Time(Job): | 42.0 |
| Terrain Detour: | | Tests / Other: | | Mobilisation: | | Total Hrs (Job): | 1037.8 | | |
| Traverse Move: | 2.0 | Non-Charge Time - | | Intraprospect Move: | | | | | |
| Panel Move: | | Travel Time: | 0.7 | Spread Layout/Pickup: | | | | | |
| Swath Move: | 0.4 | | | Crew Demobe/Remobe: | | | | | |
| Other: | | | | | | | | | |

COMMENTS:

*Total of 528 vps taken, all production.
*Extremely hot conditions today, 2nd hottest day of summer to date. Line crew had trouble with three workers affected by the heat and needing to break in the airconditioning. The thermometer in camp stopped working at 49 degrees.
*1 extra line crew into camp today, total line crew numbers 29.

Spread Movement

| Client: GAOG Spinel 3D | | | | | | | | | |
|-------------------------|-----------|------|-----|------------------------|-----------|------|-------------------|--|---|
| Layout | | | | Pickup | | | | | |
| Line | Station # | Tot | | Line | Station # | Tot | | | |
| 2020 | 5301 | 5372 | 72 | 2108 | 5344 | 5181 | 164 | | |
| 2012 | 5372 | 5181 | 192 | 2100 | 5344 | 5181 | 164 | | |
| 2004 | 5372 | 5181 | 192 | 2092 | 5181 | 5372 | 192 | | |
| 1996 | 5372 | 5181 | 192 | 2084 | 5372 | 5280 | 93 | | |
| 1988 | 5181 | 5372 | 192 | 2076 | 5372 | 5260 | 113 | | |
| Total Stations : | | | 840 | Total Stations: | | | 726 | | |
| Equipment Report | | | | Bad Phones: | | 12 | Bad Cable: | | 0 |

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|----------|-------|--------|-----|------------|----------|----------|-----|----------------------|-------------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| | | | | | | | | Total Holes | 0 |
| | | | | | | | | Cum.Holes Drilled | 0 |
| | | | | | | | | Charge | 0.00 |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 |
| | | | | | | | | Consum | 0 |
| | | | | | | | | Blowis | 0 |
| | | | | | | | | 4 x 3/4 | 0 |
| | | | | | | | | 5 x 1/8 | 0 |
| | | | | | | | | Tri Cone 4 3/4 | 0 |
| | | | | | | | | Aqua gel | 0 |
| | | | | | | | | Mtr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

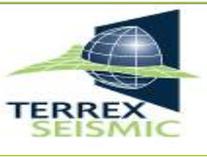
EXPERTEST - LOGGING PRODUCTION

| | | | | | | | | Hrs | Work | 0.00 |
|--|--|--|--|--|--|--|--|----------------------|-------------|------|
| | | | | | | | | Standby | 0.00 | |
| | | | | | | | | Downtime | 0.00 | |
| | | | | | | | | Kim Trav | 0.00 | |
| | | | | | | | | Trav Hrs | 0.00 | |
| | | | | | | | | Consum | 0 | |
| | | | | | | | | Holecaps | 0 | |
| | | | | | | | | Charge | 0.00 | |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 | |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 | |
| | | | | | | | | Cum.Trav.Klm (Job) | 0.00 | |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 | |

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Jon Turner
Client Rep..... Terry Grocke
Weather..... Fine / Windy
DATE..... Sunday, 4 March 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's |
|-------|-----------|-----------|------|-------|------|
| 143 | 5244-5372 | 2068-1996 | 5.44 | 0 | 136 |
| 144 | 5244-5372 | 2060-1988 | 5.44 | 0 | 136 |
| 145 | 5372-5236 | 2052-1980 | 5.76 | 0 | 144 |
| 146 | 5372-5236 | 2044-1972 | 5.76 | 0 | 144 |

Daily Totals

VP's: 560
Skips: 0
Lin.Kms: 22.040
Day.Sq.Klms: 7.1250

Cumulative Totals

Cum. VP's: 38956
Cum.Lin.Kms: 1559.040
Cum.Sq.Klms: 495.900
Lin.Kms.Remaining: 0.000
Sq.Kms.Remaining: 0.000
% Completed: 100.00%
Average Daily Production Sq. Kms: 15.027

HOURS

| Working Time - | Down Time - | Standby Time - |
|-------------------------|----------------------|-----------------------------|
| Recording: 6.9 | Human Error: | Toolbox/Safety Meeting: 0.3 |
| Requested Experimental: | Troubleshooting: 1.0 | Induction: |
| Recorder Moveup: | Recorder: 0.2 | Weather: |
| Waiting on Spread: | Vibes: 0.2 | Other: |
| Vibe Detour: 0.7 | WOS: | |
| Terrain Detour: | Tests / Other: 0.8 | |
| Traversal Move: 1.9 | | |
| Panel Move: | | |
| Swath Move: | Non-Charge Time - | |
| Other: | Travel Time: 0.8 | |

Daily Totals

Working Time: 9.5
Standby Time: 0.3
Down Time: 2.2
Non-Charge Time: 0.8
Total Day Hrs: 12.8

Cumulative Totals

Working Time(Job): 820.0
Standby Time(Job): 78.7
Down Time(Job): 48.4
Non-Charge Time(Job): 42.0
Total Hrs (Job): 1037.8

COMMENTS:

*Total of 560 vps taken, all production.
*Excessive troubleshooting time today due to an intermittent fault with a transverse repeater, difficult to track
3 bad cable today also contributed to the troubleshooting downtime.
*Vibe and recorder downtime due to positioning errors.
*1 line crew out on break today due to personal issues.
*Monthly vibrator and system tests completed at the end of the day today.

Spread Movement

Client: GAOG Spinel 3D

| Layout | | | | Pickup | | | |
|-----------------------------|-----------|------|-----|----------------------------|-----------|------|-----|
| Line | Station # | Tot | | Line | Station # | Tot | |
| 1980 | 5301 | 5356 | 56 | 2084 | 5279 | 5181 | 99 |
| 1972 | 5348 | 5181 | 168 | 2076 | 5259 | 5181 | 79 |
| 1964 | 5340 | 5181 | 160 | 2068 | 5181 | 5372 | 192 |
| 1956 | 5332 | 5181 | 152 | 2060 | 5181 | 5372 | 192 |
| 1948 | 5324 | 5269 | 56 | 2052 | 5372 | 5300 | 73 |
| 1940 | 5308 | 5269 | 40 | 2044 | 5372 | 5300 | 73 |
| Total Stations : 632 | | | | Total Stations: 708 | | | |

Total Crew #'s: 48 Line crew #'s: 28 Light Vehicle #'s: 22

Equipment Report Bad Phones: 8 Bad Cable: 3

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|----------|-------|--------|-----|------------|----------|----------|-----|----------------------|------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| | | | | | | | | Charge | 0.00 |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 |
| | | | | | | | | Consum | |
| | | | | | | | | Blovis | 0 |
| | | | | | | | | 4 x 3/4 | 0 |
| | | | | | | | | 5 x 1/8 | 0 |
| | | | | | | | | Tri Cone 4 3/4 | 0 |
| | | | | | | | | Aqua gel | 0 |
| | | | | | | | | Mtr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

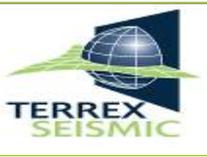
EXPERTEST - LOGGING PRODUCTION

| | Hrs | Work | 0.00 |
|--|-----|----------------------|------|
| | | Standby | 0.00 |
| | | Downtime | 0.00 |
| | | Kim Trav | 0.00 |
| | | Trav Hrs | 0.00 |
| | | Consum | |
| | | Holecaps | 0 |
| | | Charge | 0.00 |
| | | Cum.Charge.Hrs (Job) | 0.00 |
| | | Cum.Stby.Hrs (Job) | 0.00 |
| | | Cum.Trav.Klms (Job) | 0.00 |
| | | Cum.Trav.Hrs (Job) | 0.00 |

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
 Survey Name..... Spinel 3D
 Area..... PEL's 91 - 106
 State..... SA

CREW 402
 Party Manager.. Jon Turner
 Client Rep..... Terry Grocke
 Weather..... Fine / Windy
 DATE..... Tuesday, 6 March 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's |
|-------|-----------|-----------|------|-------|------|
| 151 | 5276-5340 | 2004-1932 | 2.88 | 0 | 72 |
| 152 | 5276-5332 | 1996-1924 | 2.56 | 0 | 64 |
| 153 | 5324-5236 | 1988-1916 | 3.84 | 0 | 96 |
| 154 | 5308-5236 | 1980-1908 | 3.16 | 0 | 79 |
| 155 | 5236-5244 | 1972-1900 | 0.52 | 0 | 13 |
| 156 | 5236 | 1964-1892 | 0.16 | 0 | 4 |

Complete Panel 3

Daily Totals
 VP's: 328
 Skips: 0
 Lin.Kms: 13.1200
 Day.Sq.Klms: 4.1732

Cumulative Totals
 Cum. VP's: 38956
 Cum.Lin.Kms: 1559.040
 Cum.Sq.Klm: 495.900
 Lin.Kms.Remaining: 0.000
 Sq.Kms.Remaining: 0.000
 % Completed: 100.00%
 Average Daily Production Sq. Kms: 14.169

HOURS

Working Time -
 Recording: 6.0
 Requested Experimental:
 Recorder Moveup:
 Waiting on Spread:
 Vibe Detour: 0.5
 Terrain Detour:
 Traverse Move: 1.2
 Panel Move: 4.0
 Swath Move: 0.2
 Other:

Down Time -
 Human Error:
 Troubleshooting:
 Recorder:
 Vibes:
 WOS:
 Tests / Other:

Non-Charge Time -
 Travel Time: 0.5

Standby Time -
 Toolbox/Safety Meeting: 0.3
 Induction:
 Weather:
 Other:

Other -
 Mobilisation:
 Intraprospect Move:
 Spread Layout/Pickup:
 Crew Demobe/Remobe:

Daily Totals
 Working Time: 11.9
 Standby Time: 0.3
 Down Time: 0.0
 Non-Charge Time: 0.5
 Total Day Hrs: 12.7

Cumulative Totals
 Working Time(Job): 820.0
 Standby Time(Job): 78.7
 Down Time(Job): 48.4
 Non-Charge Time(Job): 42.0
 Total Hrs (Job): 1037.8

COMMENTS:

*Total of 488 vps taken, (328 recorded, 160 overlap).
 *Completed panel 3 today and commenced panel 1, all VP's on panel 1 were overlap today.
 *An excellent day from the line crew today with 1000 channels moved on both front and back crews.
 *Should complete layout on panel 1 tomorrow or early the next day.
 *Accounts Manager and Purchasing Officer departed crew today.

Spread Movement

Client: GAOG Spinel 3D

| Layout | | | | Pickup | | | |
|-----------------------------|-----------|------|-----|-----------------------------|-----------|------|-----|
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2156 | 5092 | 4989 | 104 | 2020 | 5254 | 5181 | 74 |
| 2148 | 4989 | 5092 | 104 | 2012 | 5254 | 5181 | 74 |
| 2140 | 5092 | 4989 | 104 | 2004 | 5181 | 5372 | 192 |
| 2132 | 4989 | 5092 | 104 | 1996 | 5181 | 5372 | 192 |
| 2124 | 5092 | 4989 | 104 | 1988 | 5364 | 5181 | 184 |
| 2116 | 4989 | 5092 | 104 | 1980 | 5356 | 5181 | 176 |
| 2108 | 5092 | 4989 | 104 | 1972 | 5181 | 5260 | 80 |
| 2100 | 4989 | 5092 | 104 | 1964 | 5181 | 5235 | 55 |
| 2092 | 5092 | 4989 | 104 | | | | |
| Total Stations : 936 | | | | Total Stations: 1027 | | | |

Total Crew #s: 47 Line crew #s: 28 Light Vehicle #s: 22

Equipment Report Bad Phones: 8 Bad Cable: 0

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|----------|-------|--------|-----|------------|----------|----------|-----|----------------------|------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| | | | | | | | | Charge | 0.00 |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 |
| | | | | | | | | Consum | |
| | | | | | | | | Blovis | 0 |
| | | | | | | | | 4 x 3/4 | 0 |
| | | | | | | | | 5 x 1/8 | 0 |
| | | | | | | | | Tri Cone 4 3/4 | 0 |
| | | | | | | | | Aqua gel | 0 |
| | | | | | | | | Mtr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

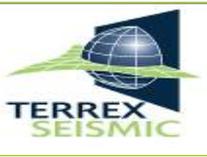
EXPERTEST - LOGGING PRODUCTION

| Hrs | Work | 0.00 |
|-----|----------------------|------|
| | Standby | 0.00 |
| | Downtime | 0.00 |
| | Kim Trav | 0.00 |
| | Trav Hrs | 0.00 |
| | Consum | |
| | Holecaps | 0 |
| | Charge | 0.00 |
| | Cum.Charge.Hrs (Job) | 0.00 |
| | Cum.Stby.Hrs (Job) | 0.00 |
| | Cum.Trav.Klm (Job) | 0.00 |
| | Cum.Trav.Hrs (Job) | 0.00 |

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Jon Turner
Client Rep..... Terry Grocke
Weather..... Fine / Hot
DATE..... Thursday, 8 March 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | Daily Totals | |
|-------------------------|-----------|-----------|------|-------|------|-----------------------------------|----------|
| Commence Panel 1 | | | | | | VP's: | 496 |
| 162 | 4988 | 2172-2132 | 0.32 | 0 | 8 | Skips: | 0 |
| 163 | 4988 | 2172-2124 | 0.32 | 0 | 8 | Lin.Kms: | 19.8400 |
| 164 | 4988-4996 | 2172-2116 | 0.64 | 0 | 16 | Day.Sq.Klms: | 6.3107 |
| 165 | 4988-4996 | 2172-2108 | 0.64 | 0 | 16 | Cumulative Totals | |
| 166 | 4988-5084 | 2172-2100 | 4.16 | 0 | 104 | Cum. VP's: | 38956 |
| 167 | 4988-5084 | 2164-2092 | 4.16 | 0 | 104 | Cum.Lin.Kms: | 1559.040 |
| 168 | 5084-5012 | 2156-2084 | 3.2 | 0 | 80 | Cum.Sq.Klm: | 495.900 |
| 169 | 5084-5012 | 2148-2076 | 3.2 | 0 | 80 | Lin.Kms.Remaining: | 0.000 |
| 170 | 5084-5012 | 2140-2068 | 3.2 | 0 | 80 | Sq.Kms.Remaining: | 0.000 |
| | | | | | | % Completed: | 100.00% |
| | | | | | | Average Daily Production Sq. Kms: | 13.403 |

HOURS

| Working Time - | | Down Time - | | Standby Time - | | Daily Totals | |
|-------------------------|-----|--------------------------|-----|-------------------------|-----|--------------------------|--------|
| Recording: | 9.1 | Human Error: | | Toolbox/Safety Meeting: | 0.3 | Working Time: | 11.4 |
| Requested Experimental: | | Troubleshooting: | | Induction: | | Standby Time: | 0.3 |
| Recorder Moveup: | | Recorder: | 0.2 | Weather: | | Down Time: | 0.4 |
| Waiting on Spread: | | Vibes: | 0.2 | Other: | | Non-Charge Time: | 0.2 |
| Vibe Detour: | 0.2 | WOS: | | Other - | | Total Day Hrs: | 12.3 |
| Terrain Detour: | | Tests / Other: | | Mobilisation: | | Cumulative Totals | |
| Traverse Move: | 1.8 | Non-Charge Time - | | Intraprospect Move: | | Working Time(Job): | 820.0 |
| Panel Move: | | Travel Time: | 0.2 | Spread Layout/Pickup: | | Standby Time(Job): | 78.7 |
| Swath Move: | 0.3 | | | Crew Demobe/Remobe: | | Down Time(Job): | 48.4 |
| Other: | | | | | | Non-Charge Time(Job): | 42.0 |
| | | | | | | Total Hrs (Job): | 1037.8 |

COMMENTS:

*Total of 776 vps taken, (496 recorded, 280 overlap).
 *Most VP's taken in one day to date, an excellent days production.
 *Crew change today, 7out and 7 in.
 *Line crew back in camp by 2:30pm, all spread layed with no back numbers until tomorrow.
 *Enough spread layed on panel 2 to commence production after completion of panel 1, will be no WOS time on panel move between 1 and 2.

Spread Movement

| Client: GAOG Spinel 3D | | | | | | | |
|-------------------------|-----------|------|-----|------------------------|-----------|------|-------------------|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 1804 | 5085 | 5172 | 88 | 2172 | 4989 | 5092 | 104 |
| 1812 | 5085 | 5172 | 88 | 2164 | 4989 | 5092 | 104 |
| 1820 | 5085 | 5172 | 88 | | | | |
| 1828 | 5085 | 5172 | 88 | | | | |
| 1836 | 5085 | 5172 | 88 | | | | |
| 1844 | 5085 | 5172 | 88 | | | | |
| Total Stations : | | | 528 | Total Stations: | | | 208 |
| Equipment Report | | | | Bad Phones: | | 7 | Bad Cable: |
| | | | | | | 0 | |

Total Crew #'s: 47 Line crew #'s: 28 Light Vehicle #'s: 22

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|--------------------|-------|--------|-----|------------|----------|----------|-----|-----------------------------|-----------------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| | | | | | | | | Charge | 0.00 |
| Total Holes | | | | | | | 0 | Cum.Charge.Hrs (Job) | 0.00 |
| Cum.Holes Drilled | | | | | | | 0 | Cum.Stby.Hrs (Job) | 0.00 |
| Holes Today | | | | | | | 0 | Cum.Trav.Hrs (Job) | 0.00 |
| Holes Remaining | | | | | | | 0 | | |
| Personal | | | | | | | | Consum | Blovis |
| Driller | | | | | | | | | 0 |
| Driller | | | | | | | | | 4 x 3/4 |
| Offsider | | | | | | | | | 5 x 1/8 |
| Offsider | | | | | | | | | 0 |
| Offsider | | | | | | | | | Tri Cone 4 3/4 |
| | | | | | | | | | Aqua gel |
| | | | | | | | | | 0 |
| | | | | | | | | | Mtr |
| | | | | | | | | | 0 |
| | | | | | | | | | Cum.Mtrs. (Job) |
| | | | | | | | | | 0 |

COMMENTS:

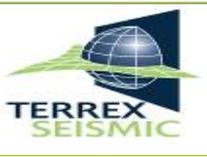
EXPERTEST - LOGGING PRODUCTION

| | | Hrs | Work | 0.00 |
|-----------------|--|---------------|----------------------|----------|
| | | | Standby | 0.00 |
| | | | Downtime | 0.00 |
| | | | Klm Trav | 0.00 |
| | | | Trav Hrs | 0.00 |
| Personal | | Consum | Holecaps | 0 |
| Logger | | | | |
| | | | Charge | 0.00 |
| | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | Cum.Trav.Klm (Job) | 0.00 |
| | | | Cum.Trav.Hrs (Job) | 0.00 |

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
 Survey Name..... Spinel 3D
 Area..... PEL's 91 - 106
 State..... SA

CREW 402
 Party Manager.. Mark Kneipp
 Client Rep..... Bruce Beer
 Weather..... Fine / Warm
 DATE..... Friday, 9 March 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's |
|-------------------------|-----------|-----------|------|-------|------|
| Continue Panel 1 | | | | | |
| 168 | 5004-4988 | 2156-2084 | 0.96 | 0 | 24 |
| 169 | 5004-4988 | 2148-2076 | 0.96 | 0 | 24 |
| 170 | 5004-4988 | 2140-2068 | 0.96 | 0 | 24 |
| 171 | 4988-5084 | 2132-2060 | 4.16 | 0 | 104 |
| 172 | 4988-5084 | 2124-2052 | 4.16 | 0 | 104 |
| 173 | 4988-5084 | 2116-2044 | 4.16 | 0 | 104 |
| 174 | 5084 | 2108-2036 | 0.32 | 0 | 8 |
| 175 | 5084 | 2100-2028 | 0.32 | 0 | 8 |
| 176 | 5084 | 2092-2020 | 0.32 | 0 | 8 |

Daily Totals
 VP's: 408
 Skips: 0
 Lin.Kms: 16.3200
 Day.Sq.Klms: 5.1911

Cumulative Totals
 Cum. VP's: 38956
 Cum.Lin.Kms: 1559.040
 Cum.Sq.Klm: 495.900
 Lin.Kms.Remaining: 0.000
 Sq.Kms.Remaining: 0.000
 % Completed: 100.00%
 Average Daily Production Sq. Kms: 13.050

HOURS

| Working Time - | Down Time - | Standby Time - |
|-------------------------|----------------------|-----------------------------|
| Recording: 9.1 | Human Error: | Toolbox/Safety Meeting: 0.3 |
| Requested Experimental: | Troubleshooting: 0.3 | Induction: |
| Recorder Moveup: | Recorder: 0.3 | Weather: |
| Waiting on Spread: | Vibes: | Other: |
| Vibe Detour: 0.5 | WOS: | |
| Terrain Detour: | Tests / Other: | |
| Traverse Move: 1.4 | | |
| Panel Move: | | |
| Swath Move: 0.3 | Non-Charge Time - | |
| Other: | Travel Time: 0.3 | |

Daily Totals
 Working Time: 11.3
 Standby Time: 0.3
 Down Time: 0.6
 Non-Charge Time: 0.3
 Total Day Hrs: 12.5
Cumulative Totals
 Working Time(Job): 820.0
 Standby Time(Job): 78.7
 Down Time(Job): 48.4
 Non-Charge Time(Job): 42.0
 Total Hrs (Job): 1037.8

COMMENTS:

*Total of 744 vps taken, (408 recorded, 336 overlap).
 * 2 system lockups in morning(0.3 DT) from a static charge in recorder. Source identified and removed.
 *Jon Turner and Terry Groke out. Bruce Beer & Mark Kneipp in

Spread Movement

| Client: GAOG Spinel 3D | | | | Date: Friday, 9 March 2007 | | | |
|-----------------------------|-----------|------|-----|----------------------------|-----------|------|-----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 1852 | 5085 | 5172 | 88 | 2156 | 4989 | 5092 | 104 |
| 1860 | 5085 | 5172 | 88 | 2148 | 4989 | 5092 | 104 |
| 1868 | 5085 | 5172 | 88 | 2140 | 4989 | 5092 | 104 |
| 1876 | 5085 | 5181 | 97 | 2132 | 4989 | 5092 | 104 |
| 1884 | 5085 | 5189 | 105 | 2124 | 4989 | 5092 | 104 |
| | | | | 2116 | 4989 | 5092 | 104 |
| Total Stations : 466 | | | | Total Stations: 624 | | | |

Total Crew #'s: 45 Line #'s: 27 Light Vehicle #'s: 22

Equipment Report Bad Phones: 8 Bad Cable: 0

DSS & TERREX CONTRACTING - LINE PREPARATION

DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

| Uphole # | PEL # | Line # | Stn | Hole Depth | Depth Wx | Velocity | Hrs | Work | 0.00 |
|----------|-------|--------|-----|------------|----------|----------|-----|----------------------|------|
| | | | | | | | | Standby | 0.00 |
| | | | | | | | | Travel Hrs | 0.00 |
| | | | | | | | | Downtime | 0.00 |
| | | | | | | | | Charge | 0.00 |
| | | | | | | | | Cum.Charge.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Stby.Hrs (Job) | 0.00 |
| | | | | | | | | Cum.Trav.Hrs (Job) | 0.00 |
| | | | | | | | | Holes Today | 0 |
| | | | | | | | | Holes Remaining | 0 |
| | | | | | | | | Consum | |
| | | | | | | | | Blovis | 0 |
| | | | | | | | | 4 x 3/4 | 0 |
| | | | | | | | | 5 x 1/8 | 0 |
| | | | | | | | | Tri Cone 4 3/4 | 0 |
| | | | | | | | | Aqua gel | 0 |
| | | | | | | | | Mtr | 0 |
| | | | | | | | | Cum.Mtrs. (Job) | 0 |

COMMENTS:

EXPERTEST - LOGGING PRODUCTION

| | Hrs | Work | 0.00 |
|--|-----|----------------------|------|
| | | Standby | 0.00 |
| | | Downtime | 0.00 |
| | | Klm Trav | 0.00 |
| | | Trav Hrs | 0.00 |
| | | Consum | |
| | | Holecaps | 0 |
| | | Charge | 0.00 |
| | | Cum.Charge.Hrs (Job) | 0.00 |
| | | Cum.Stby.Hrs (Job) | 0.00 |
| | | Cum.Trav.Klm (Job) | 0.00 |
| | | Cum.Trav.Hrs (Job) | 0.00 |

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Mark Kneipp
Client Rep..... Bruce Beer
Weather..... Fine / Warm
DATE..... Saturday, 10 March 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's |
|-------------------------|-----------|-----------|------|-------|------|
| Continue Panel 1 | | | | | |
| 174 | 5076-4988 | 2108-2036 | 3.84 | 0 | 96 |
| 175 | 5076-4988 | 2100-2028 | 3.84 | 0 | 96 |
| 176 | 5076-4988 | 2092-2020 | 3.84 | 0 | 96 |
| 177 | 4988-5084 | 2084-2012 | 4.16 | 0 | 104 |
| 178 | 4988-5084 | 2076-2004 | 4.16 | 0 | 104 |
| 179 | 4988-5084 | 2068-1996 | 4.16 | 0 | 104 |
| 180 | 4988-5084 | 2060-1988 | 4.16 | 0 | 104 |

Daily Totals
VP's: 704
Skips: 0
Lin.Kms: 28.1600
Day.Sq.Klms: 8.9571

Cumulative Totals
Cum. VP's: 38956
Cum.Lin.Kms: 1559.040
Cum.Sq.Klms: 495.900
Lin.Kms.Remaining: 0.000
Sq.Kms.Remaining: 0.000
% Completed: 100.00%
Average Daily Production Sq. Kms: 12.715

HOURS

Working Time -
Recording: 8.9
Requested Experimental:
Recorder Moveup:
Waiting on Spread:
Vibe Detour:
Terrain Detour: 1.1
Traverse Move: 1.2
Panel Move:
Swath Move:
Other:

Down Time -
Human Error:
Troubleshooting: 0.1
Recorder:
Vibes:
WOS:
Tests / Other:

Non-Charge Time -
Travel Time: 0.3

Standby Time -
Toolbox/Safety Meeting: 0.3
Induction:
Weather:
Other:

Other -
Mobilisation:
Intraprospect Move:
Spread Layout/Pickup:
Crew Demobe/Remobe:

Daily Totals
Working Time: 11.2
Standby Time: 0.3
Down Time: 0.1
Non-Charge Time: 0.3
Total Day Hrs: 11.9
Cumulative Totals
Working Time(Job): 820.0
Standby Time(Job): 78.7
Down Time(Job): 48.4
Non-Charge Time(Job): 42.0
Total Hrs (Job): 1037.8

COMMENTS:

*Total of 744 vps taken, (704 recorded, 40 overlap).
*Line crew spent the middle of the day de-pegging whilst waiting for back numbers
*HSE worked on "the flaming mattress" project for safety meeting tomorrow
*PM ordered a humidifier in an effort to reduce static charge buildup in the recorder
*Will complete panel 1 halfway through tomorrow, Panel 2 spread is ready to shoot after troubleshooting

Spread Movement

| Client: GAOG Spinel 3D | | | | Date: Saturday, 10 March 2007 | | | |
|----------------------------|-----------|------|-----|-------------------------------|-----------|---------------------|-----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 1892 | 5085 | 5197 | 113 | 2108 | 4989 | 5092 | 104 |
| 1900 | 5085 | 5206 | 122 | 2100 | 4989 | 5092 | 104 |
| 1908 | 5085 | 5215 | 131 | 2092 | 4989 | 5092 | 104 |
| 1916 | 5085 | 5223 | 139 | | | | |
| Total Stations: 505 | | | | Total Stations: 312 | | | |
| Equipment Report | | | | Bad Phones: 12 | | Bad Cable: 0 | |

Total Crew #'s: 45 Line #'s: 27 Light Vehicle #'s: 22

DSS & TERREX CONTRACTING - LINE PREPARATION

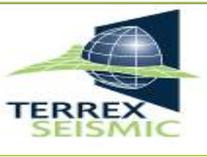
COMMENTS: Continue Production

VELOCITY DATA & SCANLON DRILLING DAILY REPORT
10/03/2007
BEACH PETROLEUM - Spinel 3D

| Uphole # | Line | Station | Intersect | Lx | Wx | Vx | Comments |
|----------------------|-------|-----------|--------------|----------------|----|---------|--------------------------|
| 13 | R1948 | 19485260 | | 40 | 8 | 1856 | |
| 16 | S5316 | 53161972 | | 34 | 13 | 1932 | |
| 18 | S5356 | 53562004 | | 34 | 12 | 1972 | |
| 21 | S5284 | 52842036 | | 40 | 19 | 2033 | |
| 30 | S5268 | 52682124 | | 34 | 8 | 1924 | |
| | | | Total | 182 | | | |
| Velocity Data | | Hours | 11.75 | Scanlon | | Hours | 12 |
| | | Travel | 0.75 | | | Travel | 0.75 |
| Nathan Jones | | Standby | | | | Standby | (Driller) Brett Andrew |
| | | Down | | | | Down | (Offsider) James McClure |
| | | Hole caps | 10 | | | Biovis | (Offsider) Ken Clark |
| | | | | | | Aus Gel | (Offsider) Troy Jones |
| | | | | | | Blades | 4 3/4 |
| | | | | | | Other | Aus Det |

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Mark Kneipp
Client Rep..... Bruce Beer
Weather..... Fine / Warm
DATE..... Sunday, 11 March 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's |
|------------------|-----------|-----------|------|-------|------|
| Commence Panel 2 | | | | | |
| 186 | 5172-5140 | 1804-1844 | 1.6 | 0 | 40 |
| 187 | 5172-5140 | 1804-1852 | 1.6 | 0 | 40 |
| 188 | 5172-5140 | 1804-1860 | 1.6 | 0 | 40 |

Daily Totals
VP's: 120
Skips: 0
Lin.Kms: 4.8000
Day.Sq.Klms: 1.5268

Cumulative Totals
Cum. VP's: 38956
Cum.Lin.Kms: 1559.040
Cum.Sq.Klms: 495.900
Lin.Kms.Remaining: 0.000
Sq.Kms.Remaining: 0.000
% Completed: 100.00%
Average Daily Production Sq. Kms: 12.397

HOURS

Working Time -
Recording: 7.5
Requested Experimental:
Recorder Moveup:
Waiting on Spread:
Vibe Detour:
Terrain Detour: 0.5
Traverse Move: 0.4
Panel Move: 2.8
Swath Move: 0.1
Other:

Down Time -
Human Error:
Troubleshooting: 0.2
Recorder: 0.1
Vibes:
WOS:
Tests / Other:

Non-Charge Time -
Travel Time: 0.7

Standby Time -
Toolbox/Safety Meeting: 0.3
Induction:
Weather:
Other:

Other -
Mobilisation:
Intraprospect Move:
Spread Layout/Pickup:
Crew Demobe/Remobe:

Daily Totals
Working Time: 11.3
Standby Time: 0.3
Down Time: 0.3
Non-Charge Time: 0.7
Total Day Hrs: 12.6
Cumulative Totals
Working Time(Job): 820.0
Standby Time(Job): 78.7
Down Time(Job): 48.4
Non-Charge Time(Job): 42.0
Total Hrs (Job): 1037.8

COMMENTS:

*Total of 607 vps taken, (120 recorded, 487 overlap, 9 skipped vp on o/lap due to salt lake).
*Shooting Panel 1 (487 o/lap vp's) completed at 1408, commence recording panel 2 at 1657
*Safety meeting held in morning.

Spread Movement

| Client: GAOG Spinel 3D | | | | Date: Sunday, 11 March 2007 | | | |
|-----------------------------|-----------|------|-----|-----------------------------|-----------|------|-----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 1924 | 5085 | 5232 | 148 | 2084 | 4989 | 5092 | 104 |
| 1932 | 5085 | 5240 | 156 | 2076 | 4989 | 5092 | 104 |
| 1940 | 5085 | 5284 | 200 | 2068 | 4989 | 5092 | 104 |
| 1948 | 5085 | 5138 | 54 | 2060 | 4989 | 5092 | 104 |
| | | | | 2052 | 4989 | 5092 | 104 |
| | | | | 2044 | 4989 | 5092 | 104 |
| | | | | 2036 | 4989 | 5092 | 104 |
| | | | | 2028 | 4989 | 5092 | 104 |
| | | | | 2020 | 4989 | 5084 | 96 |
| Total Stations : 558 | | | | Total Stations: 928 | | | |

Total Crew #'s: 45 Line #'s: 27 Light Vehicle #'s: 22

Equipment Report Bad Phones: 3 Bad Cable: 2

DSS & TERREX CONTRACTING - LINE PREPARATION

COMMENTS: Continue Production

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

11/03/2007 GAOG - Spinel 3D

| Uphole # | Line | Station | Intersect | Lx | Wx | Vx | Comments |
|----------|-------|----------|--------------|-----|----|------|----------|
| 28 | S5332 | 53322092 | | 46 | 20 | 1947 | |
| 35 | S5324 | 53242156 | | 34 | 10 | 1971 | |
| 38 | S5268 | 52682196 | | 28 | 6 | 1948 | |
| 49 | S5252 | 52522276 | | 28 | 8 | 1773 | |
| 43 | R2244 | 22445326 | | 28 | 4 | 1891 | |
| 46 | R2260 | 22605443 | | 34 | 10 | 1985 | |
| | | | Total | 198 | | | |

| Velocity Data | Hours | 11.5 | Scanlon | Hours | 11.5 |
|---------------|-------|------|---------|-------|------------------------|
| Travel | 0.75 | | Travel | 0.75 | |
| Standby | | | Standby | | (Driller) Brett Andrew |
| Down | | | Down | | (Offsider) Ken Clark |
| Hole caps | 12 | | Biovis | 3 | (Offsider) Troy Jones |
| | | | Aus Gel | | |
| | | | Blades | 1 | 4 3/4 |
| | | | Other | | Aus Det |

Camp co-ordinates are 380773 and 6908401

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Mark Kneipp
Client Rep..... Bruce Beer
Weather..... Fine / Warm
DATE..... Monday, 12 March 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | Daily Totals | |
|------------------|-----------|-----------|------|-------|------|-----------------------------------|----------|
| Continue Panel 2 | | | | | | VP's: | 705 |
| 186 | 5132-5084 | 1804-1844 | 2.24 | 0 | 56 | Skips: | 1 |
| 187 | 5132-5084 | 1804-1852 | 2.24 | 0 | 56 | Lin.Kms: | 28.2400 |
| 188 | 5132-5084 | 1804-1860 | 2.24 | 0 | 56 | Day.Sq.Klms: | 8.9826 |
| 189 | 5084-5172 | 1804-1868 | 3.84 | 1 | 95 | Cumulative Totals | |
| 190 | 5084-5172 | 1804-1876 | 3.84 | 0 | 96 | Cum. VP's: | 38956 |
| 191 | 5084-5172 | 1812-1884 | 3.84 | 0 | 96 | Cum.Lin.Kms: | 1559.040 |
| 192 | 5084-5172 | 1820-1892 | 3.84 | 0 | 96 | Cum.Sq.Klms: | 495.900 |
| 193 | 5172-5132 | 1828-1900 | 1.92 | 0 | 48 | Lin.Kms.Remaining: | 0.000 |
| 194 | 5180-5132 | 1832-1908 | 1.96 | 0 | 49 | Sq.Kms.Remaining: | 0.000 |
| 195 | 5188-5132 | 1844-1916 | 2.28 | 0 | 57 | % Completed: | 100.00% |
| | | | | | | Average Daily Production Sq. Kms: | 12.095 |

HOURS

| | | | | Daily Totals | | |
|-------------------------|-----|--------------------------|-----|-------------------------|--------------------------|--------|
| Working Time - | | Down Time - | | Standby Time - | | |
| Recording: | 8.4 | Human Error: | | Toolbox/Safety Meeting: | 0.3 | |
| Requested Experimental: | | Troubleshooting: | 0.3 | Induction: | | |
| Recorder Moveup: | 0.5 | Recorder: | | Weather: | | |
| Waiting on Spread: | | Vibes: | | Other: | | |
| Vibe Detour: | 0.7 | WOS: | | Other - | | |
| Terrain Detour: | | Tests / Other: | | Mobilisation: | | |
| Traverse Move: | 1.4 | | | Intraprospect Move: | | |
| Panel Move: | | Non-Charge Time - | | Spread Layout/Pickup: | | |
| Swath Move: | 0.3 | Travel Time: | 0.7 | Crew Demobe/Remobe: | | |
| Other: | | | | | | |
| | | | | | Daily Totals | |
| | | | | | Working Time: | 11.3 |
| | | | | | Standby Time: | 0.3 |
| | | | | | Down Time: | 0.3 |
| | | | | | Non-Charge Time: | 0.7 |
| | | | | | Total Day Hrs: | 12.6 |
| | | | | | Cumulative Totals | |
| | | | | | Working Time(Job): | 820.0 |
| | | | | | Standby Time(Job): | 78.7 |
| | | | | | Down Time(Job): | 48.4 |
| | | | | | Non-Charge Time(Job): | 42.0 |
| | | | | | Total Hrs (Job): | 1037.8 |

COMMENTS:

*Total of 705 vps taken, 1 skip
 *1 Skip and 0.3 hrs troubleshooting due to Survey pegging error(5124,1836 pegged twice, one on either side of a dune). Looks like Tim owes Steve a case of wine for DSS double pegging with a GPS survey!
 *Tom Konta(Observer) flew into Moomba in afternoon

Spread Movement

| Client: GAOG Spinel 3D | | | | Date: Monday, 12 March 2007 | | | |
|-----------------------------|-----------|------|-----|-----------------------------|-----------|---------------------|----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 1948 | 5139 | 5284 | 146 | 1804 | 5085 | 5172 | 88 |
| 1956 | 5085 | 5284 | 200 | 1812 | 5085 | 5172 | 88 |
| 1964 | 5085 | 5284 | 200 | 1820 | 5085 | 5172 | 88 |
| Total Stations : 546 | | | | Total Stations: 264 | | | |
| Equipment Report | | | | Bad Phones: 7 | | Bad Cable: 1 | |

Total Crew #'s: 45 Line #'s: 27 Light Vehicle #'s: 22

DSS & TERREX CONTRACTING - LINE PREPARATION

COMMENTS: Continue Production

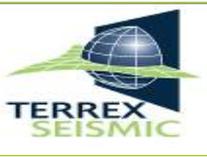
VELOCITY DATA & SCANLON DRILLING DAILY REPORT

12/03/2007 GAOG - Spinel 3D

| Uphole # | Line | Station | Intersect | Lx | Wx | Vx | Comments |
|----------------------|-------|-----------|-----------|----------------|------------|---------|-------------------------|
| 50 | R2292 | 22925364 | | 40 | 16 | 1785 | |
| 22 | S5012 | 50122037 | | 46 | 16 | 1826 | |
| 26 | S5012 | 50122092 | | 28 | 6 | 1853 | |
| 23 | S5004 | 50042148 | | 28 | 6 | 1834 | |
| 33 | S5052 | 50522156 | | 34 | 10 | 2153 | |
| 36 | S5100 | 51002180 | | 28 | 6 | 1955 | |
| | | | | Total | 204 | | |
| Velocity Data | | Hours | 11.5 | Scanlon | | Hours | 11.25 |
| | | Travel | 1 | | | Travel | 1 |
| Nathan Jones | | Standby | | | | Standby | (Driller) Brett Andrew |
| | | Down | | | | Down | (Offsider) Ken Clark |
| | | Hole caps | 12 | | | Biovis | 3 (Offsider) Troy Jones |
| | | | | | | Aus Gel | |
| | | | | | | Blades | 1 5 1/8" |
| | | | | | | Other | Aus Det |

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager... Mark Kneipp
Client Rep..... Bruce Beer
Weather..... Fine / Warm
DATE..... Tuesday, 13 March 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's |
|------------------|-----------|-----------|------|-------|------|
| Continue Panel 2 | | | | | |
| 193 | 5124-5084 | 1828-1900 | 1.92 | 0 | 48 |
| 194 | 5124-5084 | 1832-1908 | 1.92 | 0 | 48 |
| 195 | 5124-5084 | 1844-1916 | 1.92 | 0 | 48 |
| 196 | 5084-5196 | 1852-1924 | 4.56 | 0 | 114 |
| 197 | 5084-5204 | 1860-1932 | 4.88 | 0 | 122 |
| 198 | 5084-5212 | 1868-1940 | 5.24 | 0 | 131 |
| 199 | 5220-5132 | 1876-1948 | 3.64 | 0 | 91 |
| 200 | 5228-5132 | 1884-1956 | 4 | 0 | 100 |
| 201 | 5228-5132 | 1892-1964 | 4.16 | 0 | 104 |

Daily Totals
VP's: 806
Skips: 0
Lin.Kms: 32.2400
Day.Sq.Klms: 10.2549

Cumulative Totals
Cum. VP's: 38956
Cum.Lin.Kms: 1559.040
Cum.Sq.Klm: 495.900
Lin.Kms.Remaining: 0.000
Sq.Kms.Remaining: 0.000
% Completed: 100.00%
Average Daily Production Sq. Kms: 11.807

HOURS

| Working Time - | Down Time - | Standby Time - |
|-------------------------|--------------------------|-----------------------------|
| Recording: 9.4 | Human Error: 0.2 | Toolbox/Safety Meeting: 0.3 |
| Requested Experimental: | Troubleshooting: 0.3 | Induction: |
| Recorder Moveup: | Recorder: | Weather: |
| Waiting on Spread: | Vibes: | Other: |
| Vibe Detour: 0.4 | WOS: | |
| Terrain Detour: | Tests / Other: | |
| Traverse Move: 1.8 | | |
| Panel Move: 0.1 | Non-Charge Time - | |
| Swath Move: | Travel Time: 0.5 | |
| Other: | | |

Daily Totals
Working Time: 11.7
Standby Time: 0.3
Down Time: 0.5
Non-Charge Time: 0.5
Total Day Hrs: 13.0
Cumulative Totals
Working Time(Job): 820.0
Standby Time(Job): 78.7
Down Time(Job): 48.4
Non-Charge Time(Job): 42.0
Total Hrs (Job): 1037.8

COMMENTS:

- * Total of 806 vps taken.
- * Most VP's taken in one day to date, an excellent days production.
- * Tbl time from a vibe cable kill. Spread layout discussed with line crew at next morning's toolbox
- * Other downtime from missed sweeps
- * Front crew laying out over salt lake

Spread Movement

| Client: GAOG Spinel 3D | | | | Date: Tuesday, 13 March 2007 | | | |
|----------------------------|-----------|------|-----|------------------------------|-----------|------|----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 1972 | 5085 | 5284 | 200 | 1828 | 5085 | 5172 | 88 |
| 1980 | 5085 | 5284 | 200 | 1836 | 5085 | 5172 | 88 |
| 1988 | 5284 | 5169 | 116 | 1844 | 5085 | 5172 | 88 |
| | | | | 1852 | 5085 | 5172 | 88 |
| | | | | 1860 | 5085 | 5172 | 88 |
| | | | | 1868 | 5085 | 5172 | 88 |
| Total Stations: 516 | | | | Total Stations: 528 | | | |

Total Crew #'s: 45 Line #'s: 27 Light Vehicle #'s: 22

Equipment Report Bad Phones: 7 Bad Cable: 0

DSS & TERREX CONTRACTING - LINE PREPARATION

COMMENTS: Continue Production

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

13/03/2007 GAOG - Spinel 3D

| Uphole # | Line | Station | Intersect | Lx | Wx | Vx | Comments |
|----------------------|-------|-----------|-----------|----------------|-----|---------|-------------------------|
| 31 | S5152 | 51522140 | | 34 | 14 | 1960 | |
| 29 | S5156 | 51562084 | | 52 | 26 | 2011 | |
| 25 | S5220 | 52202076 | | 34 | 10 | 1974 | |
| 27 | S5092 | 50922092 | | 28 | 6 | 1930 | |
| 24 | S5076 | 50762052 | | 34 | 12 | 1794 | |
| 34 | S5204 | 52042156 | | 34 | 12 | 1942 | |
| | | | | Total | 216 | | |
| Velocity Data | | Hours | 11.75 | Scanlon | | Hours | 11.75 |
| | | Travel | 1 | | | Travel | 1 |
| Nathan Jones | | Standby | | | | Standby | (Driller) Brett Andrew |
| | | Down | | | | Down | (Offsider) Ken Clark |
| | | Hole caps | 12 | | | Biovis | 3 (Offsider) Troy Jones |
| | | | | | | Aus Gel | |
| | | | | | | Blades | 1 4 3/4 |
| | | | | | | Other | Aus Det |

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager... Mark Kneipp
Client Rep..... Bruce Beer
Weather..... Fine / Warm/ Overcast
DATE..... Wednesday, 14 March 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | Daily Totals | |
|------------------|-----------|-----------|------|-------|------|-----------------------------------|----------|
| Continue Panel 2 | | | | | | VP's: | 672 |
| 199 | 5124-5084 | 1876-1948 | 1.92 | 0 | 48 | Skips: | 0 |
| 200 | 5124-5084 | 1884-1956 | 1.92 | 0 | 48 | Lin.Kms: | 26.8800 |
| 201 | 5124-5084 | 1892-1964 | 1.92 | 0 | 48 | Day.Sq.Klms: | 8.5500 |
| 202 | 5084-5228 | 1900-1972 | 6.08 | 0 | 152 | Cumulative Totals | |
| 203 | 5084-5228 | 1908-1980 | 6.08 | 0 | 152 | Cum. VP's: | 38956 |
| 204 | 5228-5124 | 1916-1988 | 4.48 | 0 | 112 | Cum.Lin.Kms: | 1559.040 |
| 205 | 5228-5124 | 1924-1996 | 4.48 | 0 | 112 | Cum.Sq.Klms: | 495.900 |
| | | | | | | Lin.Kms.Remaining: | 0.000 |
| | | | | | | Sq.Kms.Remaining: | 0.000 |
| | | | | | | % Completed: | 100.00% |
| | | | | | | Average Daily Production Sq. Kms: | 11.533 |

HOURS

| Working Time - | | | | Down Time - | | Standby Time - | | Daily Totals | |
|-------------------------|-----|--------------------------|-----|-------------------------|-----|--------------------|--------|--------------------------|------|
| Recording: | 8.1 | Human Error: | | Toolbox/Safety Meeting: | 0.3 | Working Time: | 10.6 | Standby Time: | 0.3 |
| Requested Experimental: | | Troubleshooting: | 0.4 | Induction: | | Down Time: | 1.1 | Non-Charge Time: | 0.5 |
| Recorder Moveup: | 0.5 | Recorder: | 0.7 | Weather: | | Total Day Hrs: | 12.5 | Cumulative Totals | |
| Waiting on Spread: | | Vibes: | | Other: | | Working Time(Job): | 820.0 | Standby Time(Job): | 78.7 |
| Vibe Detour: | 0.2 | WOS: | | Other - | | Down Time(Job): | 48.4 | Non-Charge Time(Job): | 42.0 |
| Terrain Detour: | | Tests / Other: | | Mobilisation: | | Total Hrs (Job): | 1037.8 | | |
| Traverse Move: | 1.7 | | | Intraprospect Move: | | | | | |
| Panel Move: | | Non-Charge Time - | | Spread Layout/Pickup: | | | | | |
| Swath Move: | 0.1 | Travel Time: | 0.5 | Crew Demobe/Remobe: | | | | | |
| Other: | | | | | | | | | |

COMMENTS:

*Total of 672 vps taken
 *Recorder problems starting up in the morning & 2 lockups due to static charges in afternoon. Waiting on anti static measures to arrive in the mail.
 *Other than that, just another day. We do have a shortage of vehicles at the moment, 6 down today, 3 down to gearboxes, 1 front diff, 1 rear diff & 1 with steering problems. Waiting on parts for these, on Mansell Monday truck from bris. Andy is somewhat busy, commandeering the supply drivers as apprentices until the 2nd mechanic returns.

Spread Movement

| Client: GAOG Spinel 3D | | | | Date: Wednesday, 14 March 2007 | | | |
|-------------------------|-----------|------|-----|--------------------------------|-----------|------|-----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 1988 | 5168 | 5085 | 84 | 1876 | 5085 | 5181 | 97 |
| 1996 | 5085 | 5284 | 200 | 1884 | 5085 | 5189 | 105 |
| 2004 | 5284 | 5085 | 200 | 1892 | 5085 | 5197 | 113 |
| 2012 | 5284 | 5189 | 96 | 1900 | 5085 | 5206 | 122 |
| | | | | 1908 | 5085 | 5215 | 131 |
| Total Stations : | | | 580 | Total Stations: | | | 568 |
| Equipment Report | | | | Bad Phones: | | 10 | |
| | | | | Bad Cable: | | 0 | |

Total Crew #'s: 45 Line #'s: 27 Light Vehicle #'s: 22

DSS & TERREX CONTRACTING - LINE PREPARATION

COMMENTS: Continue Production

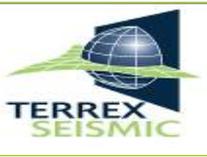
VELOCITY DATA & SCANLON DRILLING DAILY REPORT

14/03/2007 GAOG - Spinel 3D

| Uphole # | Line | Station | Interse | Lx | Wx | Vx | Comments |
|----------------------|-------|-----------|--------------|----------------|----|---------|-------------------------|
| 32 | S5156 | 51562148 | | 34 | 10 | 1966 | |
| 37 | S5124 | 51242140 | | 34 | 14 | 1984 | |
| 39 | S5124 | 51242204 | | 28 | 8 | 1996 | |
| 41 | S5100 | 51002228 | | 28 | 6 | 1972 | |
| 40 | S5164 | 51642220 | | 26 | 4 | 1927 | |
| 44 | R2252 | 22525164 | | 28 | 4 | 1896 | |
| | | | Total | 178 | | | |
| Velocity Data | | Hours | 11 | Scanlon | | Hours | 11 |
| | | Travel | 1 | | | Travel | 1 |
| Nathan Jones | | Standby | | | | Standby | (Driller) Brett Andrew |
| | | Down | | | | Down | (Offsider) Ken Clark |
| | | Hole caps | 12 | | | Biovis | 3 (Offsider) Troy Jones |
| | | | | | | Aus Gel | |
| | | | | | | Blades | 4 3/4 |
| | | | | | | Other | Aus Det |

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Mark Kneipp
Client Rep..... Bruce Beer
Weather..... Fine / Warm/ Overcast
DATE..... Thursday, 15 March 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | Daily Totals | |
|------------------|-----------|-----------|------|-------|------|-----------------------------------|----------|
| Continue Panel 2 | | | | | | VP's: | 696 |
| 204 | 5116-5084 | 1916-1988 | 1.6 | 0 | 40 | Skips: | 0 |
| 205 | 5116-5084 | 1924-1996 | 1.6 | 0 | 40 | Lin.Kms: | 27.8400 |
| 206 | 5084-5228 | 1932-2004 | 6.08 | 0 | 152 | Day.Sq.Klms: | 8.8554 |
| 207 | 5228-5084 | 1940-2012 | 6.08 | 0 | 152 | Cumulative Totals | |
| 208 | 5084-5228 | 1948-2020 | 6.08 | 0 | 152 | Cum. VP's: | 38956 |
| 209 | 5084-5228 | 1956-2028 | 6.08 | 0 | 152 | Cum.Lin.Kms: | 1559.040 |
| 210 | 5228 | 1964-2036 | 0.32 | 0 | 8 | Cum.Sq.Klms: | 495.900 |
| | | | | | | Lin.Kms.Remaining: | 0.000 |
| | | | | | | Sq.Kms.Remaining: | 0.000 |
| | | | | | | % Completed: | 100.00% |
| | | | | | | Average Daily Production Sq. Kms: | 11.270 |

HOURS

| Working Time - | | | | Down Time - | | Standby Time - | | Daily Totals | |
|-------------------------|-----|--------------------------|-----|-------------------------|-----|--------------------|--------|--------------------------|------|
| Recording: | 7.9 | Human Error: | | Toolbox/Safety Meeting: | 0.3 | Working Time: | 11.2 | Standby Time: | 0.3 |
| Requested Experimental: | | Troubleshooting: | 0.3 | Induction: | | Down Time: | 0.4 | Non-Charge Time: | 0.3 |
| Recorder Moveup: | | Recorder: | 0.1 | Weather: | | Total Day Hrs: | 12.2 | Cumulative Totals | |
| Waiting on Spread: | | Vibes: | | Other: | | Working Time(Job): | 820.0 | Standby Time(Job): | 78.7 |
| Vibe Detour: | 0.3 | WOS: | | Other - | | Down Time(Job): | 48.4 | Non-Charge Time(Job): | 42.0 |
| Terrain Detour: | | Tests / Other: | | Mobilisation: | | Total Hrs (Job): | 1037.8 | | |
| Traverse Move: | 2.8 | Non-Charge Time - | | Intraprospect Move: | | | | | |
| Panel Move: | | Travel Time: | 0.3 | Spread Layout/Pickup: | | | | | |
| Swath Move: | 0.2 | | | Crew Demobe/Remobe: | | | | | |
| Other: | | | | | | | | | |

COMMENTS:

*696 Vp's, 8.554 sq km
*Crew Change today, 5 in, 5 out & 1 no-show on inbound flight. Note Line crew #'s stand at 26 until a new hire can be flown in to replace no-show
* 2 lockups in recorder, 0.1 hrs DT

Spread Movement

| Client: GAOG Spinel 3D | | | Date: Thursday, 15 March 2007 | | |
|-----------------------------|-----------|------|-------------------------------|-----------|------|
| Layout | | | Pickup | | |
| Line | Station # | Tot | Line | Station # | Tot |
| 2012 | 5188 | 5085 | 104 | 1916 | 5085 |
| 2020 | 5085 | 5284 | 200 | 1924 | 5085 |
| 2028 | 5284 | 5085 | 200 | 1932 | 5085 |
| 2036 | 5284 | 5085 | 200 | 1940 | 5085 |
| | | | | 1948 | 5085 |
| Total Stations : 704 | | | Total Stations: 655 | | |

Total Crew #'s: 45

Line #'s: 26

Light Vehicle #'s: 22

Equipment Report

Bad Phones: 8

Bad Cable: 2

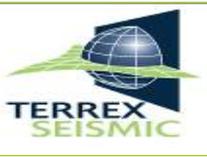
VELOCITY DATA & SCANLON DRILLING DAILY REPORT

15/03/2007 GAOG - Spinel 3D

| Uphole # | Line | Station | Interse | Lx | Wx | Vx | Comments |
|----------------------|-------|----------|---------|----------------|-------|------------------------|---|
| 42 | S5212 | 52122236 | | 40 | 12 | 1753 | |
| 48 | S5220 | 52202276 | | 34 | 10 | 1956 | |
| 45 | S5132 | 51322260 | | 28 | 12 | 1966 | |
| 54 | S5220 | 52202308 | | 40 | 8 | 1966 | |
| 55 | S568 | 52682324 | | 34 | 12 | 1951 | |
| 60 | S5252 | 52522388 | | 40 | 12 | 1965 | |
| 37 | S5148 | 51482180 | | 34 | 14 | 1984 | This is a correction from the 14/03/07, as I had entered the wrong line and station number in for the daily report. |
| 31 | S5124 | 51242140 | | 34 | 14 | 1960 | This is a correction from the 13/03/07, as I had entered the wrong line and station number in for the daily report. |
| | | | | Total | 216 | | |
| Velocity Data | | | | Scanlon | | | |
| Hours | 11.5 | | | Hours | 11.75 | | |
| Travel | 1 | | | Travel | 1 | | |
| Standby | | | | Standby | | (Driller) Brett Andrew | |
| Down | | | | Down | | (Offsider) Ken Clark | |
| Hole caps | 12 | | | Biovis | 3 | (Offsider) Troy Jones | |
| | | | | Aus Gel | | | |
| | | | | Blades | 1 | 4 3/4 | |
| | | | | Other | | Aus Det | |

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Mark Kneipp
Client Rep..... Bruce Beer
Weather..... Afternoon Storms/Hot/Gusty winds
DATE..... Friday, 16 March 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's |
|-------|-----------|------------------|------|-------|------|
| | | Continue Panel 2 | | | |
| 210 | 5220-5084 | 1964-2036 | 5.76 | 0 | 144 |
| 211 | 5084-5228 | 1964-2044 | 6.08 | 0 | 152 |
| 212 | 5084-5228 | 1972-2052 | 6.08 | 0 | 152 |
| 213 | 5228-5196 | 1980-2060 | 1.6 | 0 | 40 |

Daily Totals
VP's: 488
Skips: 0
Lin.Kms: 19.5200
Day.Sq.Klms: 6.2089

Cumulative Totals
Cum. VP's: 38956
Cum.Lin.Kms: 1559.040
Cum.Sq.Klms: 495.900
Lin.Kms.Remaining: 0.000
Sq.Kms.Remaining: 0.000
% Completed: 100.00%
Average Daily Production Sq. Kms: 11.020

HOURS

| Working Time - | | Down Time - | | Standby Time - | |
|-------------------------|-----|--------------------------|-----|-------------------------|-----|
| Recording: | 7.1 | Human Error: | | Toolbox/Safety Meeting: | 0.3 |
| Requested Experimental: | | Troubleshooting: | 0.4 | Induction: | |
| Recorder Moveup: | | Recorder: | | Weather: | 1.2 |
| Waiting on Spread: | | Vibes: | | Other: | |
| Vibe Detour: | 0.7 | WOS: | | Other - | |
| Terrain Detour: | | Tests / Other: | | Mobilisation: | |
| Traverse Move: | 1.9 | | | Intraprospect Move: | |
| Panel Move: | | Non-Charge Time - | | Spread Layout/Pickup: | |
| Swath Move: | 0.1 | Travel Time: | 0.3 | Crew Demobe/Remobe: | |
| Other: | | | | | |

Daily Totals
Working Time: 9.8
Standby Time: 1.5
Down Time: 0.4
Non-Charge Time: 0.3
Total Day Hrs: 12.0
Cumulative Totals
Working Time(Job): 820.0
Standby Time(Job): 78.7
Down Time(Job): 48.4
Non-Charge Time(Job): 42.0
Total Hrs (Job): 1037.8

COMMENTS:

*488 vp's, 6.209 sq km
*Early end to day due to lighting & dust storm over spread
Some afternoon storms and light rain on spread, but not enough to affect production
* IOR Fuel truck came from Eromanga

Spread Movement

| Client: GAOG Spinel 3D | | | | Date: Friday, 16 March 2007 | | | |
|-----------------------------|-----------|------|-----|-----------------------------|-----------|---------------------|-----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2044 | 5085 | 5284 | 200 | 1940 | 5191 | 5284 | 94 |
| 2052 | 5085 | 5284 | 200 | 1948 | 5191 | 5284 | 94 |
| 2060 | 5284 | 5085 | 200 | 1956 | 5284 | 5085 | 200 |
| 2068 | 5085 | 5164 | 80 | 1964 | 5085 | 5284 | 200 |
| 2076 | 5085 | 5164 | 80 | 1972 | 5085 | 5284 | 200 |
| | | | | 1980 | 5085 | 5284 | 200 |
| Total Stations : 680 | | | | Total Stations: 988 | | | |
| Equipment Report | | | | Bad Phones: 6 | | Bad Cable: 1 | |

Total Crew #'s: 45 Line #'s: 26 Light Vehicle #'s: 22

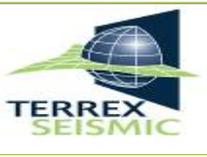
VELOCITY DATA & SCANLON DRILLING DAILY REPORT

16/03/2007 GAOG - Spinel 3D

| Uphole # | Line | Station | Interse | Lx | Wx | Vx | Comments |
|----------------------|-------|-----------|--------------|----------------|----|---------|-----------------------------|
| 66 | S5268 | 52682452 | | 40 | 20 | 2042 | |
| 61 | R2404 | 24045332 | | 26 | 4 | 1750 | |
| 2 | S5164 | | | 46 | 24 | 1761 | |
| 1 | S5156 | 51561820 | | 34 | 12 | 1954 | |
| | | | Total | 146 | | | |
| Velocity Data | | Hours | 10 | Scanlon | | Hours | 10 |
| | | Travel | 1 | | | Travel | 1 (Supervisor) Brett Andrew |
| Nathan Jones | | Standby | | | | Standby | (Driller) Russell St Jack |
| | | Down | | | | Down | |
| | | Hole caps | 8 | | | Biovis | 2 |
| | | | | | | Aus Gel | |
| | | | | | | Blades | 4 3/4 |
| | | | | | | Other | Aus Det |

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager... Mark Kneipp
Client Rep..... Bruce Beer
Weather..... Hot/Humid
DATE..... Saturday, 17 March 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's |
|------------------|-----------|-----------|------|-------|------|
| Continue Panel 2 | | | | | |
| 213 | 5188-5036 | 1988-2060 | 4.16 | 0 | 104 |
| 214 | 5036-5228 | 1996-2068 | 5.76 | 0 | 144 |
| 215 | 5036-5228 | 2004-2076 | 5.76 | 8 | 136 |
| 216 | 5228-5196 | 2012-2084 | 1.6 | 0 | 40 |

Daily Totals
VP's: 424
Skips: 8
Lin.Kms: 17.2800
Day.Sq.Klms: 5.4964

Cumulative Totals
Cum. VP's: 38956
Cum.Lin.Kms: 1559.040
Cum.Sq.Klm: 495.900
Lin.Kms.Remaining: 0.000
Sq.Kms.Remaining: 0.000
% Completed: 100.00%
Average Daily Production Sq. Kms: 10.780

HOURS

| Working Time - | | Down Time - | | Standby Time - | |
|-------------------------|-----|-------------------|-----|-------------------------|-----|
| Recording: | 6.8 | Human Error: | | Toolbox/Safety Meeting: | 0.3 |
| Requested Experimental: | | Troubleshooting: | 0.6 | Induction: | |
| Recorder Moveup: | 0.5 | Recorder: | | Weather: | |
| Waiting on Spread: | | Vibes: | | Other: | |
| Vibe Detour: | 0.7 | WOS: | | | |
| Terrain Detour: | | Tests / Other: | 0.7 | Other - | |
| Traverse Move: | 2.3 | | | Mobilisation: | |
| Panel Move: | | Non-Charge Time - | | Intraprospect Move: | |
| Swath Move: | | Travel Time: | 0.4 | Spread Layout/Pickup: | |
| Other: | | | | Crew Demobe/Remobe: | |

Daily Totals
Working Time: 10.3
Standby Time: 0.3
Down Time: 1.3
Non-Charge Time: 0.4
Total Day Hrs: 12.3
Cumulative Totals
Working Time(Job): 820.0
Standby Time(Job): 78.7
Down Time(Job): 48.4
Non-Charge Time(Job): 42.0
Total Hrs (Job): 1037.8

COMMENTS:

*17.28 km recorded from 424 vps, also shot 168 overlap vp's. 8 skips due to a salt lake.
*0.7 hrs Other DT - Vibe Tech told by office to pump vibe tyres to 30lb to try & reduce radial flex cracking. The terrain of the area did not allow this, vibes could not traverse a 4 mtr gently sloping dune & were struggling on near flat ground. Client won't pay for detour time with tyres @ 30lb. Tyres were let back down to 18lb, no access problems.
*1 spare tyre on crew, another 5 in Eromanga
*Supply driver is standing by, ready to go to Eromanga to pick up another 4 tyres when the roads open again in QLD

Spread Movement

| Client: GAOG Spinel 3D | | | | Date: Saturday, 17 March 2007 | | | |
|-----------------------------|-----------|------|-----|-------------------------------|-----------|------|-----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2068 | 5165 | 5284 | 120 | 1988 | 5191 | 5284 | 94 |
| 2076 | 5165 | 5284 | 120 | 1996 | 5085 | 5284 | 200 |
| 2084 | 5284 | 5085 | 200 | 2004 | 5085 | 5284 | 200 |
| 2092 | 5085 | 5240 | 156 | | | | |
| 2100 | 5085 | 5240 | 156 | | | | |
| Total Stations : 596 | | | | Total Stations: 494 | | | |

Total Crew #s: 45

Line #s: 26

Light Vehicle #s: 22

Equipment Report

Bad Phones: 4

Bad Cable: 0

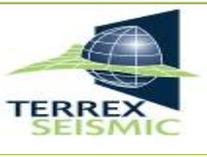
VELOCITY DATA & SCANLON DRILLING DAILY REPORT

17/03/2007 GAOG - Spinel 3D

| Uphole # | Line | Station | Interse | Lx | Wx | Vx | Comments |
|----------------------|-----------|----------|--------------|----------------|-------|---------|---------------------------|
| 4 | S5156 | 51561820 | | 34 | 12 | 1945 | |
| 7 | S5172 | 51721892 | | 28 | 10 | 1975 | |
| 9 | S5196 | 51961916 | | 28 | 6 | 2209 | |
| 10 | S5172 | 51721932 | | 28 | 6 | 1924 | |
| 14 | S5204 | 52041956 | | 28 | 6 | 1943 | |
| 3 | S5100 | 51001836 | | 34 | 10 | 1961 | |
| | | | Total | 180 | | | |
| Velocity Data | | | | Scanlon | | | |
| | Hours | 11 | | Hours | 11.75 | | |
| | Travel | 1 | | Travel | 1 | | (Supervisor) Brett Andrew |
| Nathan Jones | Standby | | | Standby | | | (Driller) Russell St Jack |
| | Down | | | Down | | | |
| | Hole caps | 10 | | Biovis | 3 | | |
| | | | | Aus Gel | | | |
| | | | | Blades | 1 | 4 3/4 | |
| | | | | Other | | Aus Det | |

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

Party Manager... CREW 402
Client Rep..... Mark Kneipp
Weather..... Bruce Beer
DATE..... Hot/Dry
Sunday, 18 March 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | Daily Totals | |
|------------------|-----------|-----------|------|-------|------|-----------------------------------|----------|
| Continue Panel 2 | | | | | | VP's: | 431 |
| 216 | 5188-5036 | 2012-2084 | 4.16 | 1 | 103 | Skips: | 1 |
| 217 | 5036-5228 | 2020-2092 | 5.76 | 0 | 144 | Lin.Kms: | 17.2800 |
| 218 | 5036-5228 | 2028-2100 | 5.76 | 0 | 144 | Day.Sq.Klms: | 5.4964 |
| 219 | 5228-5196 | 2036-2108 | 1.6 | 0 | 40 | Cumulative Totals | |
| | | | | | | Cum. VP's: | 38956 |
| | | | | | | Cum.Lin.Kms: | 1559.040 |
| | | | | | | Cum.Sq.Klms: | 495.900 |
| | | | | | | Lin.Kms.Remaining: | 0.000 |
| | | | | | | Sq.Kms.Remaining: | 0.000 |
| | | | | | | % Completed: | 100.00% |
| | | | | | | Average Daily Production Sq. Kms: | 10.551 |

HOURS

| Working Time - | | Down Time - | | Standby Time - | | Daily Totals | |
|-------------------------|-----|--------------------------|-----|-------------------------|-----|--------------------------|--------|
| Recording: | 7.3 | Human Error: | | Toolbox/Safety Meeting: | 0.3 | Working Time: | 10.5 |
| Requested Experimental: | | Troubleshooting: | 0.8 | Induction: | | Standby Time: | 0.3 |
| Recorder Moveup: | | Recorder: | 0.1 | Weather: | | Down Time: | 0.9 |
| Waiting on Spread: | | Vibes: | | Other: | | Non-Charge Time: | 0.5 |
| Vibe Detour: | 1.1 | WOS: | | | | Total Day Hrs: | 12.2 |
| Terrain Detour: | | Tests / Other: | | | | Cumulative Totals | |
| Traverse Move: | 2.0 | | | Mobilisation: | | Working Time(Job): | 820.0 |
| Panel Move: | | | | Intraprospect Move: | | Standby Time(Job): | 78.7 |
| Swath Move: | 0.1 | Non-Charge Time - | | Spread Layout/Pickup: | | Down Time(Job): | 48.4 |
| Other: | | Travel Time: | 0.5 | Crew Demobe/Remobe: | | Non-Charge Time(Job): | 42.0 |
| | | | | | | Total Hrs (Job): | 1037.8 |

COMMENTS:

*17.28 km recorded from 431 vps, also shot 160 overlap vp's. 1 skips due to a salt lake.
 *Many small detours on traverse totalling 1.1 hrs over the day
 *0.8 Hrs Tbl in morning with most of the transverse line playing up on recorder startup
 * 1 recorder lockup
 *Safety meeting held in morning
 *Supply driver is standing by, ready to go to Eromanga to pick up another 4 vibe tyres when the roads open again in OLD

Spread Movement

| Client: GAOG Spinel 3D | | | | Date: Sunday, 18 March 2007 | | | |
|-----------------------------|-----------|------|-----|-----------------------------|-----------|------|-----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2092 | 5241 | 5284 | 44 | 2012 | 5085 | 5284 | 200 |
| 2100 | 5241 | 5284 | 44 | 2020 | 5085 | 5284 | 200 |
| 2108 | 5284 | 5085 | 200 | 2028 | 5085 | 5284 | 200 |
| 2116 | 5085 | 5204 | 120 | | | | |
| 2124 | 5085 | 5224 | 140 | | | | |
| Total Stations : 548 | | | | Total Stations: 600 | | | |

Total Crew #s: 45

Line #s: 26

Light Vehicle #s: 22

Equipment Report

Bad Phones: 8

Bad Cable: 0

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

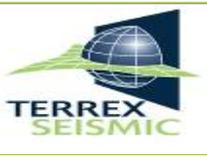
18/03/2007 GAOG - Spinel 3D

| Uphole # | Line | Station | Intersect | Lx | Wx | Vx | Comments |
|----------------------|-------|-----------|--------------|----------------|----|---------|--|
| 5 | S5116 | 51161868 | | 28 | 10 | 1973 | |
| 8 | S5124 | 51241900 | | 34 | 10 | 1954 | |
| 6 | S5092 | 50921900 | | 34 | 14 | 1869 | |
| 12 | S5092 | 50921948 | | 28 | 8 | 1938 | |
| 11 | S5132 | 51321940 | | 28 | 8 | 1875 | |
| 15 | S5124 | 51241972 | | 28 | 6 | 1929 | |
| 4 | S5156 | 51561860 | | 34 | 12 | 1945 | Correction from the 17/03/07, as I had entered the Station incorrectly |
| | | | Total | 180 | | | |
| Velocity Data | | Hours | 10.75 | Scanlon | | Hours | 11.25 |
| | | Travel | 1 | | | Travel | 1 (Supervisor) Brett Andrew |
| Nathan Jones | | Standby | | | | Standby | (Driller) Russell St Jack |
| | | Down | 0.25 | | | Down | 0.25 |
| | | Hole caps | 12 | | | Biovis | 3 |
| | | | | | | Aus Gel | |
| | | | | | | Blades | 4 3/4 |
| | | | | | | Other | Aus Det |

Down time: Safety Meeting.

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager... Mark Kneipp
Client Rep..... Bruce Beer
Weather..... Hot/Dry
DATE..... Monday, 19 March 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | Daily Totals | |
|------------------|-----------|-----------|------|-------|------|-----------------------------------|----------|
| Continue Panel 2 | | | | | | VP's: | 456 |
| 219 | 5188-5092 | 2036-2108 | 4.16 | 0 | 104 | Skips: | 0 |
| 220 | 5092-5228 | 3044-2116 | 5.76 | 0 | 144 | Lin.Kms: | 18.2400 |
| 221 | 5092-5228 | 2052-2124 | 5.76 | 0 | 144 | Day.Sq.Klms: | 5.8018 |
| 222 | 5228-5172 | 2060-2132 | 2.56 | 0 | 64 | Cumulative Totals | |
| | | | | | | Cum. VP's: | 38956 |
| | | | | | | Cum.Lin.Kms: | 1559.040 |
| | | | | | | Cum.Sq.Klms: | 495.900 |
| | | | | | | Lin.Kms.Remaining: | 0.000 |
| | | | | | | Sq.Kms.Remaining: | 0.000 |
| | | | | | | % Completed: | 100.00% |
| | | | | | | Average Daily Production Sq. Kms: | 10.331 |

HOURS

| Working Time - | | Down Time - | | Standby Time - | | Daily Totals | |
|-------------------------|-----|--------------------------|-----|-------------------------|-----|--------------------------|--------|
| Recording: | 6.8 | Human Error: | | Toolbox/Safety Meeting: | 0.3 | Working Time: | 11.3 |
| Requested Experimental: | | Troubleshooting: | | Induction: | | Standby Time: | 0.3 |
| Recorder Moveup: | | Recorder: | 0.1 | Weather: | | Down Time: | 0.2 |
| Waiting on Spread: | | Vibes: | 0.1 | Other: | | Non-Charge Time: | 0.5 |
| Vibe Detour: | 2.0 | WOS: | | Other - | | Total Day Hrs: | 12.3 |
| Terrain Detour: | | Tests / Other: | | Mobilisation: | | Cumulative Totals | |
| Traverse Move: | 2.4 | Non-Charge Time - | | Intraprospect Move: | | Working Time(Job): | 820.0 |
| Panel Move: | | Travel Time: | 0.5 | Spread Layout/Pickup: | | Standby Time(Job): | 78.7 |
| Swath Move: | 0.1 | Other: | | Crew Demobe/Remobe: | | Down Time(Job): | 48.4 |
| | | | | | | Non-Charge Time(Job): | 42.0 |
| | | | | | | Total Hrs (Job): | 1037.8 |

COMMENTS:

*18.24 km recorded from 456 vps, also shot 168 overlap vp's.
*Many, many detours on traverse totaling 2.0 hrs over the day. The dunes are giving vibes and line crew curry.
* 1 lockup in afternoon, 0.1 hrs DT

Spread Movement

| Client: GAOG Spinel 3D | | | | Date: Monday, 19 March 2007 | | | |
|-----------------------------|-----------|------|-----|-----------------------------|-----------|------|-----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2116 | 5205 | 5284 | 80 | 2036 | 5284 | 5085 | 200 |
| 2124 | 5225 | 5284 | 60 | 2044 | 5085 | 5284 | 200 |
| 2132 | 5284 | 5085 | 200 | 2052 | 5085 | 5284 | 200 |
| 2140 | 5085 | 5225 | 141 | 2060 | 5284 | 5256 | 29 |
| 2148 | 5085 | 5284 | 200 | | | | |
| Total Stations : 681 | | | | Total Stations: 629 | | | |
| Equipment Report | | | | Bad Phones: 8 | | | |
| | | | | Bad Cable: 0 | | | |

Total Crew #s: 45

Line #s: 26

Light Vehicle #s: 22

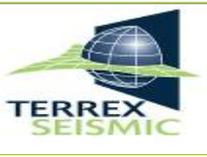
VELOCITY DATA & SCANLON DRILLING DAILY REPORT

19/03/2007 GAOG - Spinel 3D

| Uphole # | Line | Station | Intersect | Lx | Wx | Vx | Comments |
|----------------------|-------|-----------|--------------|----------------|----|-------|---------------------------|
| 20 | S5204 | 52042012 | | 34 | 14 | 1893 | |
| 19 | S5148 | 51482012 | | 28 | 8 | 1946 | |
| 17 | S5180 | 51801980 | | 34 | 12 | 2058 | |
| 57 | R2348 | 23485380 | | 34 | 16 | 1940 | |
| 71 | S5324 | 53242532 | | 28 | 6 | 1771 | |
| 76 | R2604 | 26045365 | | 34 | 18 | 1973 | |
| | | | Total | 192 | | | |
| Velocity Data | | Hours | 11 | Scanlon | | Hours | 12 |
| Nathan Jones | | Travel | 1 | Travel | | 1 | (Supervisor) Brett Andrew |
| | | Standby | | Standby | | | (Driller) Russell St Jack |
| | | Down | | Down | | | |
| | | Hole caps | 12 | Biovis | | 3 | |
| | | | | Aus Gel | | | |
| | | | | Blades | | 1 | 4 3/4 |
| | | | | Other | | | Aus Det |

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

Party Manager... CREW 402
Client Rep..... Mark Kneipp
Weather..... Bruce Beer
DATE..... Hot/Dry
Tuesday, 20 March 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | Daily Totals | |
|------------------|-----------|-----------|------|-------|------|-----------------------------------|----------|
| Continue Panel 2 | | | | | | VP's: | 528 |
| 222 | 5164-5044 | 2060-2132 | 3.2 | 0 | 80 | Skips: | 0 |
| 223 | 5044-5228 | 2068-2140 | 5.76 | 0 | 144 | Lin.Kms: | 21.1200 |
| 224 | 5044-5228 | 2076-2148 | 5.76 | 0 | 144 | Day.Sq.Klms: | 6.7179 |
| 225 | 5044-5228 | 2084-2156 | 5.76 | 0 | 144 | Cumulative Totals | |
| 226 | 5228 | 2092-2164 | 0.32 | 0 | 8 | Cum. VP's: | 38956 |
| 227 | 5228 | 2100-2172 | 0.32 | 0 | 8 | Cum.Lin.Kms: | 1559.040 |
| | | | | | | Cum.Sq.Klms: | 495.900 |
| | | | | | | Lin.Kms.Remaining: | 0.000 |
| | | | | | | Sq.Kms.Remaining: | 0.000 |
| | | | | | | % Completed: | 100.00% |
| | | | | | | Average Daily Production Sq. Kms: | 10.120 |

HOURS

| Working Time - | | Down Time - | | Standby Time - | | Daily Totals | |
|-------------------------|-----|--------------------------|-----|-------------------------|-----|--------------------------|--------|
| Recording: | 8.4 | Human Error: | | Toolbox/Safety Meeting: | 0.3 | Working Time: | 11.0 |
| Requested Experimental: | | Troubleshooting: | | Induction: | | Standby Time: | 0.3 |
| Recorder Moveup: | | Recorder: | | Weather: | | Down Time: | 0.3 |
| Waiting on Spread: | | Vibes: | 0.3 | Other: | | Non-Charge Time: | 0.5 |
| Vibe Detour: | 0.2 | WOS: | | Other - | | Total Day Hrs: | 12.1 |
| Terrain Detour: | | Tests / Other: | | Mobilisation: | | Cumulative Totals | |
| Traverse Move: | 2.2 | Non-Charge Time - | | Intraprospect Move: | | Working Time(Job): | 820.0 |
| Panel Move: | | Travel Time: | 0.5 | Spread Layout/Pickup: | | Standby Time(Job): | 78.7 |
| Swath Move: | 0.2 | | | Crew Demobe/Remobe: | | Down Time(Job): | 48.4 |
| Other: | | | | | | Non-Charge Time(Job): | 42.0 |
| | | | | | | Total Hrs (Job): | 1037.8 |

COMMENTS:

*21.12 km recorded from 528 vps, also shot 192 overlap vp's.
*A good days production, some vibe DT in afternoon from radio difficulties & a blown hose
*1 Juggy sent home, unfit for work

Spread Movement

| Client: GAOG Spinel 3D | | | | Date: Tuesday, 20 March 2007 | | | |
|-----------------------------|-----------|------|-----|------------------------------|-----------|---------------------|-----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2156 | 5085 | 5284 | 200 | 2060 | 5255 | 5085 | 171 |
| 2164 | 5085 | 5284 | 200 | 2068 | 5085 | 5220 | 136 |
| 2172 | 5284 | 5085 | 200 | 2076 | 5085 | 5220 | 136 |
| | | | | 2084 | 5085 | 5220 | 136 |
| Total Stations : 600 | | | | Total Stations: 579 | | | |
| Equipment Report | | | | Bad Phones: 8 | | Bad Cable: 1 | |

Total Crew #s: 44

Line #s: 25

Light Vehicle #s: 22

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

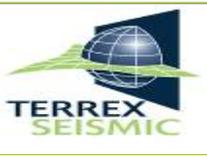
20/03/2007

GAOG - Spinel 3D

| Uphole # | Line | Station | Intersect | Lx | Wx | Vx | Comments |
|----------------------|-------|-----------|--------------|----------------|----|---------|---------------------------|
| 80 | R2652 | 26525148 | | 31 | 12 | 1801 | |
| 88 | S5252 | 52522716 | | 34 | 8 | 1969 | |
| 86 | S5284 | 52842700 | | 34 | 10 | 1958 | |
| 79 | R2652 | 26525317 | | 28 | 8 | 1941 | |
| 78 | S5268 | 52682652 | | 28 | 6 | 1753 | |
| 75 | R2588 | 25885292 | | 28 | 6 | 1755 | |
| | | | Total | 183 | | | |
| Velocity Data | | Hours | 10.25 | Scanlon | | Hours | 11 |
| Nathan Jones | | Travel | 1 | Travel | | 1 | (Supervisor) Brett Andrew |
| | | Standby | | Standby | | | (Driller) Russell St Jack |
| | | Down | | Down | | | |
| | | Hole caps | 12 | Biovis | | 3 | |
| | | | | Aus Gel | | | |
| | | | | Blades | | 4 3/4 | |
| | | | | Other | | Aus Det | |

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager... Mark Kneipp
Client Rep..... Bruce Beer
Weather..... Hot/Dry
DATE..... Thursday, 22 March 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | | <u>Daily Totals</u> |
|-------|-----------|------------------|------|-------|------|--|---|
| | | Continue Panel 2 | | | | | VP's: 480 |
| 228 | 5196-5228 | 2108-2180 | 1.6 | 0 | 40 | | Skips: 0 |
| 229 | 5196-5228 | 2116-2188 | 1.6 | 0 | 40 | | Lin.Kms: 19.2000 |
| 230 | 5228-5092 | 2124-2196 | 5.76 | 0 | 144 | | Day.Sq.Klms: 6.1071 |
| 231 | 5228-5092 | 2132-2204 | 5.76 | 0 | 144 | | |
| 232 | 5092-5140 | 2140-2212 | 2.24 | 0 | 56 | | <u>Cumulative Totals</u> |
| 233 | 5092-5140 | 2148-2220 | 2.24 | 0 | 56 | | Cum. VP's: 38956 |
| | | | | | | | Cum.Lin.Kms: 1559.040 |
| | | | | | | | Cum.Sq.Klms: 495.900 |
| | | | | | | | Lin.Kms.Remaining: 0.000 |
| | | | | | | | Sq.Kms.Remaining: 0.000 |
| | | | | | | | % Completed: 100.00% |
| | | | | | | | Average Daily Production Sq. Kms: 9.724 |

HOURS

| Working Time - | | Down Time - | | Standby Time - | | <u>Daily Totals</u> | |
|-------------------------|-----|-------------------|-----|-------------------------|-----|--------------------------|--------|
| Recording: | 6.9 | Human Error: | 0.3 | Toolbox/Safety Meeting: | 0.3 | Working Time: | 9.8 |
| Requested Experimental: | | Troubleshooting: | | Induction: | | Standby Time: | 0.3 |
| Recorder Moveup: | | Recorder: | 1.3 | Weather: | | Down Time: | 1.6 |
| Waiting on Spread: | | Vibes: | | Other: | | Non-Charge Time: | 0.7 |
| Vibe Detour: | 0.9 | WOS: | | | | Total Day Hrs: | 12.4 |
| Terrain Detour: | | Tests / Other: | | Other - | | <u>Cumulative Totals</u> | |
| Traverse Move: | 1.6 | | | Mobilisation: | | Working Time(Job): | 820.0 |
| Panel Move: | | Non-Charge Time - | | Intraprospect Move: | | Standby Time(Job): | 78.7 |
| Swath Move: | 0.4 | Travel Time: | 0.7 | Spread Layout/Pickup: | | Down Time(Job): | 48.4 |
| Other: | | | | Crew Demobe/Remobe: | | Non-Charge Time(Job): | 42.0 |
| | | | | | | Total Hrs (Job): | 1037.8 |

COMMENTS:

- *19.20 km recorded from 480 vps, also shot 96 overlap vps.
- *Still some difficult dunes to traverse, 0.9 hrs vibe detour
- *Recorder lost connection with LCI. (1.3 hrs). Ended up being an internal power switch had shook itself off, causing a system crash.
- *Vibes had a position error which was picked up on the traverse. Re-shoot 13 vp's(0.3 hrs)
- *No spare vibe at end of day, electronic switches are playing up causing unexpected pad raising & lowering. Vibe Tech will have vibe apart tomorrow for a period.
- * Crew change today, 5 out, 10 in. Note we are now running at full contract numbers again.

Spread Movement

| Client: GAOG Spinel 3D | | | | Date: Thursday, 22 March 2007 | | | |
|-----------------------------|-----------|------|-----|-------------------------------|-----------|------|-----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2204 | 5164 | 5093 | 72 | 2108 | 5131 | 5284 | 154 |
| 2212 | 5093 | 5284 | 192 | 2116 | 5131 | 5284 | 154 |
| 2220 | 5284 | 5093 | 192 | 2124 | 5284 | 5093 | 192 |
| 2228 | 5284 | 5093 | 192 | 2132 | 5284 | 5093 | 192 |
| 2236 | 5284 | 5165 | 120 | | | | |
| Total Stations : 768 | | | | Total Stations: 692 | | | |

Total Crew #s: 48

Line #s: 26

Light Vehicle #s: 22

Equipment Report

Bad Phones: 8

Bad Cable: 1

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

22/03/2007

GAOG - Spinel 3D

| Uphole # | Line | Station | Interse | Lx | Wx | Vx | Comments |
|----------------------|-----------|----------|--------------|----------------|---------|------|--|
| 58 | R2364 | 23645100 | | 28 | 2 | 1865 | |
| 64 | S5108 | 51082420 | | 26 | 4 | 1941 | |
| 67 | S5100 | 51002468 | | 28 | 4 | 1896 | |
| 65 | S5180 | 51802428 | | 28 | 0-2 | 1996 | Due to the elevation of this uphole the weathering depth was considerably low. |
| 62 | S5180 | 51802396 | | 28 | 0-2 | 1999 | Due to the elevation of this uphole the weathering depth was considerably low. |
| | | | Total | 138 | | | |
| Velocity Data | Hours | 10 | | Scanlon | Hours | 10 | |
| | Travel | 1 | | | Travel | 1 | (Supervisor) Brett Andrew |
| Nathan Jones | Standby | | | | Standby | | (Driller) Russell St Jack |
| | Down | | | | Down | | |
| | Hole caps | 12 | | | Biovis | 2 | |
| | | | | | Aus Gel | | |
| | | | | | Blades | 1 | 4 3/4 |
| | | | | | Other | | Aus Det |

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager... Mark Kneipp
Client Rep..... Bruce Beer
Weather..... Warm/Windy
DATE..... Friday, 23 March 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | Daily Totals | |
|------------------|-----------|-----------|------|-------|------|-----------------------------------|----------|
| Continue Panel 2 | | | | | | VP's: | 640 |
| 232 | 5148-5228 | 2140-2212 | 3.52 | 0 | 88 | Skips: | 0 |
| 233 | 5148-5228 | 2148-2220 | 3.52 | 0 | 88 | Lin.Kms: | 25.6000 |
| 234 | 5228-5092 | 2156-2228 | 5.76 | 0 | 144 | Day.Sq.Kms: | 8.1429 |
| 235 | 5228-5092 | 2164-2236 | 5.76 | 0 | 144 | Cumulative Totals | |
| 236 | 5092-5228 | 2172-2244 | 5.76 | 0 | 144 | Cum. VP's: | 38956 |
| 237 | 5228-5220 | 2180-2252 | 0.64 | 0 | 16 | Cum.Lin.Kms: | 1559.040 |
| 238 | 5228-5220 | 2188-2260 | 0.64 | 0 | 16 | Cum.Sq.Km: | 495.900 |
| | | | | | | Lin.Kms.Remaining: | 0.000 |
| | | | | | | Sq.Kms.Remaining: | 0.000 |
| | | | | | | % Completed: | 100.00% |
| | | | | | | Average Daily Production Sq. Kms: | 9.537 |

HOURS

| Working Time - | | | Down Time - | | | Standby Time - | | | Daily Totals | |
|-------------------------|-----|--|--------------------------|-----|--|-------------------------|-----|--|--------------------------|--------|
| Recording: | 7.8 | | Human Error: | 0.1 | | Toolbox/Safety Meeting: | 0.3 | | Working Time: | 11.2 |
| Requested Experimental: | | | Troubleshooting: | 0.1 | | Induction: | | | Standby Time: | 0.3 |
| Recorder Moveup: | | | Recorder: | 0.1 | | Weather: | | | Down Time: | 0.3 |
| Waiting on Spread: | | | Vibes: | | | Other: | | | Non-Charge Time: | 0.3 |
| Vibe Detour: | 1.2 | | WOS: | | | | | | Total Day Hrs: | 12.1 |
| Terrain Detour: | | | Tests / Other: | | | Other - | | | Cumulative Totals | |
| Traverse Move: | 2.1 | | | | | Mobilisation: | | | Working Time(Job): | 820.0 |
| Panel Move: | | | Non-Charge Time - | | | Intraprospect Move: | | | Standby Time(Job): | 78.7 |
| Swath Move: | 0.1 | | Travel Time: | 0.3 | | Spread Layout/Pickup: | | | Down Time(Job): | 48.4 |
| Other: | | | | | | Crew Demobe/Remobe: | | | Non-Charge Time(Job): | 42.0 |
| | | | | | | | | | Total Hrs (Job): | 1037.8 |

COMMENTS:

*25.60 km recorded from 640 vps.
*Still some difficult dunes to traverse, 1.2 hrs vibe detour
* 1 sys lockup, 1 observer position error saw the day through
* 8 people from GAOG and Energy investments visited today before heading to Innaminka for the night. Bruce escorted them today & will also do so tomorrow.
*We seem to have solved the electronic switch problems on Vibe 1, waiting eagerly for the new sensors & switches to arrive from Adelaide tho...

Spread Movement

| Client: GAOG Spinel 3D | | | | Date: Friday, 23 March 2007 | | | |
|-----------------------------|-----------|------|-----|-----------------------------|-----------|------|-----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2236 | 5164 | 5093 | 72 | 2140 | 5093 | 5284 | 192 |
| 2244 | 5093 | 5284 | 192 | 2148 | 5093 | 5284 | 192 |
| 2252 | 5284 | 5093 | 192 | 2156 | 5284 | 5093 | 192 |
| 2260 | 5284 | 5093 | 192 | 2164 | 5093 | 5210 | 118 |
| | | | | 2172 | 5093 | 5210 | 118 |
| Total Stations : 648 | | | | Total Stations: 812 | | | |

Total Crew #s: 48

Line #s: 26

Light Vehicle #s: 22

Equipment Report

Bad Phones: 9

Bad Cable: 0

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

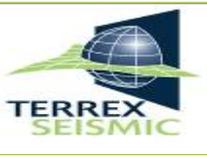
23/03/2007 GAOG - Spinel 3D

| Uphole # | Line | Station | Intersect | Lx | Wx | Vx | Comments |
|----------|-------|----------|--------------|-----|----|------|----------|
| 63 | S5148 | 51482404 | | 40 | 18 | 2004 | |
| 68 | S5204 | 52042500 | | 28 | 8 | 1950 | |
| 69 | S5108 | 51082516 | | 28 | 10 | 2002 | |
| 72 | S5100 | 51002548 | | 32 | 8 | 1937 | |
| 70 | R2532 | 25325141 | | 46 | 26 | 1853 | |
| 73 | S5220 | 52202572 | | 28 | 4 | 1821 | |
| 74 | R2604 | 26045164 | | 34 | 16 | 2003 | |
| | | | Total | 236 | | | |

| Velocity Data | Hours | 12 | Scanlon | Hours | 12.5 |
|---------------|-----------|----|---------|---------|-----------------------------|
| Nathan Jones | Travel | 1 | | Travel | 1 (Supervisor) Brett Andrew |
| | Standby | | | Standby | (Driller) Russell St Jack |
| | Down | | | Down | (Offsider) Joe Smiler |
| | Hole caps | 14 | | Biovis | 3 |
| | | | | Aus Gel | |
| | | | | Blades | 4 3/4 |
| | | | | Other | Aus Det |

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

Party Manager... CREW 402
Mark Kneipp
Client Rep..... Bruce Beer
Weather..... Cool/Windy/Morning Shower
DATE..... Saturday, 24 March 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | Daily Totals | |
|------------------|-----------|-----------|------|-------|------|-----------------------------------|----------|
| Continue Panel 2 | | | | | | VP's: | 608 |
| 237 | 5212-5092 | 2174-2252 | 5.12 | 0 | 128 | Skips: | 0 |
| 238 | 5212-5092 | 2188-2260 | 5.12 | 0 | 128 | Lin.Kms: | 24.3200 |
| 239 | 5092-5228 | 2296-2268 | 5.76 | 0 | 144 | Day.Sq.Klms: | 7.7357 |
| 240 | 5092-5228 | 2204-2276 | 5.76 | 0 | 144 | Cumulative Totals | |
| 241 | 5228-5204 | 2212-2284 | 1.28 | 0 | 32 | Cum. VP's: | 38956 |
| 242 | 5228-5204 | 2220-2292 | 1.28 | 0 | 32 | Cum.Lin.Kms: | 1559.040 |
| | | | | | | Cum.Sq.Klms: | 495.900 |
| | | | | | | Lin.Kms.Remaining: | 0.000 |
| | | | | | | Sq.Kms.Remaining: | 0.000 |
| | | | | | | % Completed: | 100.00% |
| | | | | | | Average Daily Production Sq. Kms: | 9.357 |

HOURS

| Working Time - | | Down Time - | | Standby Time - | | Daily Totals | |
|-------------------------|-----|--------------------------|-----|-------------------------|-----|--------------------------|--------|
| Recording: | 7.7 | Human Error: | | Toolbox/Safety Meeting: | 0.3 | Working Time: | 11.5 |
| Requested Experimental: | | Troubleshooting: | 0.5 | Induction: | | Standby Time: | 0.3 |
| Recorder Moveup: | 0.6 | Recorder: | 0.3 | Weather: | | Down Time: | 0.8 |
| Waiting on Spread: | | Vibes: | | Other: | | Non-Charge Time: | 0.4 |
| Vibe Detour: | 1.2 | WOS: | | Other - | | Total Day Hrs: | 13.0 |
| Terrain Detour: | | Tests / Other: | | Mobilisation: | | Cumulative Totals | |
| Traverse Move: | 1.8 | Non-Charge Time - | | Intraprospect Move: | | Working Time(Job): | 820.0 |
| Panel Move: | | Travel Time: | 0.4 | Spread Layout/Pickup: | | Standby Time(Job): | 78.7 |
| Swath Move: | 0.2 | Other: | | Crew Demobe/Remobe: | | Down Time(Job): | 48.4 |
| | | | | | | Non-Charge Time(Job): | 42.0 |
| | | | | | | Total Hrs (Job): | 1037.8 |

COMMENTS:

*24.32 km recorded from 608 vps.
*A very windy day with some morning showers, not enough to stop production though.
*Recording DT from a non-responding line, reset LCI. Another couple of small crashes in the afternoon
*Bruce Beer returned from Innamincka in the afternoon

Spread Movement

| Client: GAOG Spinel 3D | | | | Date: Saturday, 24 March 2007 | | | |
|-----------------------------|-----------|------|-----|-------------------------------|-----------|------|-----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2268 | 5164 | 5093 | 72 | 2164 | 5211 | 5284 | 74 |
| 2276 | 5093 | 5284 | 192 | 2172 | 5211 | 5284 | 74 |
| 2284 | 5284 | 5093 | 192 | 2180 | 5284 | 5093 | 192 |
| 2292 | 5284 | 5093 | 192 | 2188 | 5284 | 5093 | 192 |
| 2300 | 5093 | 5135 | 43 | 2196 | 5093 | 5240 | 148 |
| | | | | 2204 | 5093 | 5240 | 148 |
| Total Stations : 691 | | | | Total Stations: 828 | | | |

Total Crew #s: 48

Line #s: 26

Light Vehicle #s: 22

Equipment Report

Bad Phones: 8

Bad Cable: 1

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

24/03/2007 GAOG - Spinel 3D

| Uphole # | Line | Station | Intersect | Lx | Wx | Vx | Comments |
|----------------------|-----------|----------|--------------|----------------|---------|-------|---------------------------|
| 77 | S5100 | 51002636 | | 28 | 0-2 | 2181 | |
| | | | Total | 28 | | | |
| Velocity Data | | Hours | 2 | Scanlon | | Hours | 2.25 |
| Nathan Jones | Travel | 1.25 | | Travel | 1 | | (Supervisor) Brett Andrew |
| | Standby | 6.75 | | Standby | 6.75 | | (Driller) Russell St Jack |
| | Down | | | Down | | | (Offsider) Joe Smiler |
| | Hole caps | 2 | | Biovis | 1 | | |
| | | | | Aus Gel | | | |
| | | | Blades | | 4 3/4 | | |
| | | | Other | | Aus Det | | |

Standby due to excessive rainfall, that prohibited scanlon from drilling.

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager.. Mark Kneipp
Client Rep..... Bruce Beer
Weather..... Cool/Windy
DATE..... Sunday, 25 March 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | Daily Totals | |
|------------------|-----------|-----------|------|-------|------|-----------------------------------|----------|
| Continue Panel 2 | | | | | | VP's: | 666 |
| 241 | 5196-5092 | 2212-2284 | 4.48 | 0 | 112 | Skips: | 0 |
| 242 | 5196-5092 | 2228-2292 | 4.48 | 0 | 112 | Lin.Kms: | 26.6400 |
| 243 | 5092-5228 | 2236-2300 | 5.76 | 0 | 144 | Day.Sq.Kms: | 8.4737 |
| 244 | 5092-5228 | 2244-2308 | 5.76 | 0 | 144 | Cumulative Totals | |
| 245 | 5228-5156 | 2252-2316 | 2.96 | 0 | 74 | Cum. VP's: | 38956 |
| 246 | 5228-5156 | 2260-2324 | 3.2 | 0 | 80 | Cum.Lin.Kms: | 1559.040 |
| | | | | | | Cum.Sq.Klm: | 495.900 |
| | | | | | | Lin.Kms.Remaining: | 0.000 |
| | | | | | | Sq.Kms.Remaining: | 0.000 |
| | | | | | | % Completed: | 100.00% |
| | | | | | | Average Daily Production Sq. Kms: | 9.183 |

HOURS

| Working Time - | | Down Time - | | Standby Time - | | Daily Totals | |
|-------------------------|-----|--------------------------|-----|-------------------------|-----|--------------------------|--------|
| Recording: | 8.4 | Human Error: | | Toolbox/Safety Meeting: | 0.3 | Working Time: | 11.0 |
| Requested Experimental: | | Troubleshooting: | 0.2 | Induction: | | Standby Time: | 0.3 |
| Recorder Moveup: | | Recorder: | 0.5 | Weather: | | Down Time: | 0.7 |
| Waiting on Spread: | | Vibes: | | Other: | | Non-Charge Time: | 0.8 |
| Vibe Detour: | 0.6 | WOS: | | | | Total Day Hrs: | 12.8 |
| Terrain Detour: | | Tests / Other: | | | | Cumulative Totals | |
| Traverse Move: | 2.0 | | | Mobilisation: | | Working Time(Job): | 820.0 |
| Panel Move: | | | | Intraprospect Move: | | Standby Time(Job): | 78.7 |
| Swath Move: | | Non-Charge Time - | | Spread Layout/Pickup: | | Down Time(Job): | 48.4 |
| Other: | | Travel Time: | 0.8 | Crew Demobe/Remobe: | | Non-Charge Time(Job): | 42.0 |
| | | | | | | Total Hrs (Job): | 1037.8 |

COMMENTS:

*26.64 km recorded from 666 vp's
*A couple of lockups, line crashes and missed sweeps to make the Observers day. Worked longer in the day to make up for it.
*Daylight Saving ended this morning. Toolbox now @ 0600, the short winter days are looming.....
*travel increasing, moving camp Tuesday morning

Spread Movement

| Client: GAOG Spinel 3D | | | | Date: Sunday, 25 March 2007 | | | |
|-------------------------|-----------|------|-----|-----------------------------|-----------|------|-----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2300 | 5136 | 5284 | 149 | 2196 | 5241 | 5284 | 44 |
| 2308 | 5093 | 5284 | 192 | 2204 | 5241 | 5284 | 44 |
| 2316 | 5284 | 5093 | 192 | 2212 | 5284 | 5093 | 192 |
| 2324 | 5284 | 5093 | 192 | 2220 | 5284 | 5093 | 192 |
| 2332 | 5093 | 5220 | 128 | 2228 | 5093 | 5284 | 192 |
| | | | | 2236 | 5093 | 5284 | 192 |
| | | | | 2244 | 5284 | 5224 | 61 |
| | | | | 2252 | 5284 | 5224 | 61 |
| Total Stations : | | | | Total Stations: | | | |
| 853 | | | | 978 | | | |

Total Crew #s: 46

Line #s: 25

Light Vehicle #s: 22

Equipment Report

Bad Phones: 11

Bad Cable: 0

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

2503/2007

GAOG - Spinel 3D

| Uphole # | Line | Station | Intersect | Lx | Wx | Vx | Comments |
|----------|-------|----------|--------------|-----|-----|------|----------|
| 84 | R2692 | 26925100 | | 28 | 0-2 | 1996 | |
| 89 | S5100 | 51002732 | | 28 | 4 | 1966 | |
| 87 | S5148 | 51482716 | | 28 | 10 | 1964 | |
| 82 | S5140 | 51402684 | | 28 | 4 | 1957 | |
| 81 | R2668 | 26685172 | | 28 | 4 | 1926 | |
| 83 | S5212 | 52122684 | | 28 | 4 | 1936 | |
| 85 | R2700 | 27005180 | | 34 | 12 | 1773 | |
| | | | Total | 202 | | | |

| Velocity Data | Hours | 10.75 | Scanlon | Hours | 11.75 |
|---------------|-----------|-------|---------|---------|-----------------------------|
| Nathan Jones | Travel | 1 | | Travel | 1 (Supervisor) Brett Andrew |
| | Standby | | | Standby | (Driller) Russell St Jack |
| | Down | 0.25 | | Down | 0.25 (Offsider) Joe Smiler |
| | Hole caps | 14 | | Biovis | 3 |
| | | | | Aus Gel | |
| | | | | Blades | 1 5 1/8" |
| | | | | Other | Aus Det |

Down time: Safety Meeting

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
Survey Name..... Spinel 3D
Area..... PEL's 91 - 106
State..... SA

CREW 402
Party Manager... Mark Kneipp
Client Rep..... Bruce Beer
Weather..... Hot/Calm
DATE..... Tuesday, 27 March 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | Daily Totals | |
|------------------|-----------|-----------|------|-------|------|-----------------------------------|----------|
| Continue Panel 2 | | | | | | VP's: | 576 |
| 249 | 5100-5092 | 2276-2348 | 0.64 | 0 | 16 | Skips: | 0 |
| 250 | 5100-5092 | 2284-2356 | 0.64 | 0 | 16 | Lin.Kms: | 23.0400 |
| 251 | 5092-5228 | 2292-2364 | 5.76 | 0 | 144 | Day.Sq.Kms: | 7.3286 |
| 252 | 5092-5228 | 2300-2372 | 5.76 | 0 | 144 | Cumulative Totals | |
| 253 | 5228-5092 | 2308-2380 | 5.76 | 0 | 144 | Cum. VP's: | 38956 |
| 254 | 5092-5140 | 2316-2388 | 2.24 | 0 | 56 | Cum.Lin.Kms: | 1559.040 |
| 255 | 5092-5140 | 2324-2396 | 2.24 | 0 | 56 | Cum.Sq.Klm: | 495.900 |
| | | | | | | Lin.Kms.Remaining: | 0.000 |
| | | | | | | Sq.Kms.Remaining: | 0.000 |
| | | | | | | % Completed: | 100.00% |
| | | | | | | Average Daily Production Sq. Kms: | 8.855 |

HOURS

| Working Time - | | Down Time - | | Standby Time - | | Daily Totals | |
|-------------------------|-----|--------------------------|-----|-------------------------|-----|--------------------------|--------|
| Recording: | 7.6 | Human Error: | | Toolbox/Safety Meeting: | 0.3 | Working Time: | 11.1 |
| Requested Experimental: | | Troubleshooting: | 0.4 | Induction: | | Standby Time: | 0.3 |
| Recorder Moveup: | 0.5 | Recorder: | 0.2 | Weather: | | Down Time: | 0.6 |
| Waiting on Spread: | | Vibes: | | Other: | | Non-Charge Time: | 0.7 |
| Vibe Detour: | 0.6 | WOS: | | | | Total Day Hrs: | 12.7 |
| Terrain Detour: | | Tests / Other: | | Other - | | Cumulative Totals | |
| Traversal Move: | 2.2 | | | Mobilisation: | | Working Time(Job): | 820.0 |
| Panel Move: | | Non-Charge Time - | | Intraprospect Move: | | Standby Time(Job): | 78.7 |
| Swath Move: | 0.2 | Travel Time: | 0.7 | Spread Layout/Pickup: | | Down Time(Job): | 48.4 |
| Other: | | | | Crew Demobe/Remobe: | | Non-Charge Time(Job): | 42.0 |
| | | | | | | Total Hrs (Job): | 1037.8 |

COMMENTS:

- * 23.04 km recorded from 576 vp's
- * A few system lockups to slow the recorder down & some cables on line
- * Camp Cretins moved camp to near the top of Panel 2.
- * Line crew laying out in wet salt lake, steady going through there.

Spread Movement

| Client: GAOG Spinel 3D | | | | Date: Tuesday, 27 March 2007 | | | |
|-----------------------------|-----------|------|-----|------------------------------|-----------|------|-----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2372 | 5186 | 5284 | 99 | 2276 | 5219 | 5093 | 127 |
| 2380 | 5093 | 5284 | 192 | 2284 | 5219 | 5093 | 127 |
| 2388 | 5284 | 5093 | 192 | 2292 | 5093 | 5284 | 192 |
| 2396 | 5284 | 5093 | 192 | 2300 | 5093 | 5284 | 192 |
| | | | | 2308 | 5284 | 5120 | 165 |
| Total Stations : 675 | | | | Total Stations: 803 | | | |

Total Crew #s: 46

Line #s: 25

Light Vehicle #s: 22

Equipment Report

Bad Phones: 9

Bad Cable: 0

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

27/03/2007 GAOG - Spinel 3D

| Uphole # | Line | Station | Intersect | Lx | Wx | Vx | Comments |
|----------|-------|--------------|-----------|-----|----|------|----------|
| 102 | S5204 | 52042884 | | 28 | 4 | 1919 | |
| 103 | S5292 | 52922876 | | 28 | 8 | 2659 | |
| 96 | S5284 | 52842820 | | 40 | 14 | 1968 | |
| 93 | S5292 | 52922780 | | 28 | 6 | 1924 | |
| 95 | S5260 | 52602796 | | 28 | 8 | 1962 | |
| 98 | S5244 | 52442836 | | 28 | 6 | 1942 | |
| | | Total | | 180 | | | |

| Velocity Data | | Hours | 10 | Scanlon | | Hours | 10 |
|---------------|-----------|-------|----|---------|------|---------------------------|----|
| Nathan Jones | Travel | 1.25 | | Travel | 1.25 | (Supervisor) Brett Andrew | |
| | Standby | | | Standby | | (Driller) Russell St Jack | |
| | Down | | | Down | 2.5 | (Offsider) Joe Smiler | |
| | Hole caps | 12 | | Biovis | 3 | | |
| | | | | Aus Gel | | | |
| | | | | Blades | 1 | 4 1/8" | |
| | | | | Other | | Aus Det | |

Scanlons down time: Pack up camp and wash trucks.

Drill. Program Complete

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
 Survey Name..... Spinel 3D
 Area..... PEL's 91 - 106
 State..... SA

CREW 402
 Party Manager.. Mark Kneipp
 Client Rep..... Bruce Beer
 Weather..... Hot/Evening Showers
 DATE..... Wednesday, 28 March 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | Daily Totals | |
|------------------|-----------|-----------|------|-------|------|-----------------------------------|----------|
| Continue Panel 2 | | | | | | VP's: | 624 |
| 254 | 5148-5228 | 2316-2388 | 3.52 | 0 | 88 | Skips: | 0 |
| 255 | 5148-5228 | 2324-2396 | 3.52 | 0 | 88 | Lin.Kms: | 24.9600 |
| 256 | 5228-5092 | 2432-2404 | 5.76 | 0 | 144 | Day.Sq.Klms: | 7.9393 |
| 257 | 5228-5092 | 2440-2412 | 5.76 | 0 | 144 | Cumulative Totals | |
| 258 | 5092-5228 | 2448-2420 | 5.76 | 0 | 144 | Cum. VP's: | 38956 |
| 259 | 5228-5220 | 2456-2428 | 0.64 | 0 | 16 | Cum.Lin.Kms: | 1559.040 |
| | | | | | | Cum.Sq.Klms: | 495.900 |
| | | | | | | Lin.Kms.Remaining: | 0.000 |
| | | | | | | Sq.Kms.Remaining: | 0.000 |
| | | | | | | % Completed: | 100.00% |
| | | | | | | Average Daily Production Sq. Kms: | 8.700 |

HOURS

| Working Time - | | | Down Time - | | | Standby Time - | | | Daily Totals | |
|-------------------------|-----|--|--------------------------|-----|--|-------------------------|-----|--|--------------------------|--------|
| Recording: | 7.6 | | Human Error: | | | Toolbox/Safety Meeting: | 0.3 | | Working Time: | 10.7 |
| Requested Experimental: | | | Troubleshooting: | 0.5 | | Induction: | | | Standby Time: | 0.3 |
| Recorder Moveup: | | | Recorder: | | | Weather: | | | Down Time: | 0.5 |
| Waiting on Spread: | | | Vibes: | | | Other: | | | Non-Charge Time: | 0.9 |
| Vibe Detour: | 0.9 | | WOS: | | | | | | | |
| Terrain Detour: | | | Tests / Other: | | | | | | | |
| Traversal Move: | 2.1 | | Non-Charge Time - | | | | | | | |
| Panel Move: | | | Travel Time: | 0.9 | | | | | | |
| Swath Move: | 0.1 | | | | | | | | | |
| Other: | | | | | | | | | | |
| | | | | | | | | | Cumulative Totals | |
| | | | | | | | | | Working Time(Job): | 820.0 |
| | | | | | | | | | Standby Time(Job): | 78.7 |
| | | | | | | | | | Down Time(Job): | 48.4 |
| | | | | | | | | | Non-Charge Time(Job): | 42.0 |
| | | | | | | | | | Total Hrs (Job): | 1037.8 |

COMMENTS:

- * 24.96 km recorded from 624 vp's
- * Line crew laying out in wet salt lake, steady going through there.
- * Steady light rain falling from 2100 onwards tonight
- * 1 Vibe down, waiting on replacement Lift Rams to come in

Spread Movement

| Client: GAOG Spinel 3D | | | | Date: Wednesday, 28 March 2007 | | | |
|-----------------------------|-----------|------|-----|--------------------------------|-----------|------|-----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2404 | 5093 | 5284 | 192 | 2308 | 5119 | 5093 | 27 |
| 2412 | 5093 | 5284 | 192 | 2316 | 5284 | 5093 | 192 |
| 2420 | 5284 | 5093 | 192 | 2324 | 5093 | 5284 | 192 |
| 2428 | 5284 | 5093 | 192 | 2332 | 5093 | 5284 | 192 |
| 2436 | 5093 | 5164 | 72 | 2340 | 5093 | 5164 | 72 |
| 2444 | 5093 | 5164 | 72 | 2348 | 5093 | 5164 | 72 |
| Total Stations : 912 | | | | Total Stations: 747 | | | |

Total Crew #s: 46

Line #s: 25

Light Vehicle #s: 22

Equipment Report

Bad Phones: 7

Bad Cable: 1

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
 Survey Name. Spinel 3D
 Area..... PEL's 91 - 106
 State..... SA

CREW 402
 Party Manager.. Mark Kneipp
 Client Rep..... Bruce Beer
 Weather..... Cool/Rain o/nite & morning
 DATE..... Thursday, 29 March 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's |
|-------|-----------|------------------|------|-------|------|
| | | Continue Panel 2 | | | |
| 259 | 5212-5196 | 2456-2428 | 0.96 | 0 | 24 |

Daily Totals
 VP's: 24
 Skips: 0
 Lin.Kms: 0.9600
 Day.Sq.Klms: 0.3054

Cumulative Totals
 Cum. VP's: 38956
 Cum.Lin.Kms: 1559.040
 Cum.Sq.Klm: 495.900
 Lin.Kms.Remaining: 0.000
 Sq.Kms.Remaining: 0.000
 % Completed: 100.00%
 Average Daily Production Sq. Kms: 8.550

HOURS

| Working Time - | Down Time - | Standby Time - |
|-------------------------|--------------------------|-----------------------------|
| Recording: 0.5 | Human Error: | Toolbox/Safety Meeting: 0.3 |
| Requested Experimental: | Troubleshooting: | Induction: |
| Recorder Moveup: | Recorder: | Weather: 9.6 |
| Waiting on Spread: | Vibes: | Other: |
| Vibe Detour: 0.1 | WOS: | |
| Terrain Detour: | Tests / Other: | |
| Traverse Move: 0.2 | | |
| Panel Move: | Non-Charge Time - | |
| Swath Move: | Travel Time: 1.3 | |
| Other: | | |

Daily Totals
 Working Time: 0.8
 Standby Time: 9.9
 Down Time: 0.0
 Non-Charge Time: 1.3
 Total Day Hrs: 12.0
Cumulative Totals
 Working Time(Job): 820.0
 Standby Time(Job): 78.7
 Down Time(Job): 48.4
 Non-Charge Time(Job): 42.0
 Total Hrs (Job): 1037.8

COMMENTS:

- * 0.96 km recorded from 24 vp's
- * Steady Rain fell overnight & continued through the early morning
- * Crew on standby until 1200, then went out to line.
- * Still quite wet in places, however no-one got bogged and LC are taking their time driving to the conditions
- * The salt lake now has 10 cm of water in it, most of the afternoon spent troubleshooting this (included in 9.6 hrs standby)
- * Crew change was delayed to late in the day to let the roads dry at least a little bit, incoming change arrived at camp at 1900, access quite muddy & boggy all the way up from the Tantanna turnoff (about 90 km from camp)

Spread Movement

| Client: GAOG Spinel 3D | | | | Date: Thursday, 29 March 2007 | | | |
|-------------------------|-----------|------|-----|-------------------------------|-----------|------|-----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2444 | 5165 | 5284 | 120 | 2356 | 5284 | 5157 | 128 |
| Total Stations: | | 120 | | Total Stations: | | 128 | |
| Equipment Report | | | | Bad Phones: | | 2 | |
| | | | | Bad Cable: | | 4 | |

Total Crew #'s: 46 Line #'s: 27 Light Vehicle #'s: 22

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
 Survey Name. Spinel 3D
 Area..... PEL's 91 - 106
 State..... SA

CREW 402
 Party Manager.. Mark Kneipp
 Client Rep..... Bruce Beer
 Weather..... Fine/Cool
 DATE..... Friday, 30 March 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | Daily Totals | |
|------------------|-----------|-----------|------|-------|------|-----------------------------------|----------|
| Continue Panel 2 | | | | | | VP's: | 568 |
| 259 | 5188-5092 | 2456-2428 | 4.16 | 0 | 104 | Skips: | 68 |
| 260 | 5092-5228 | 2464-2436 | 5.76 | 2 | 144 | Lin.Kms: | 22.7200 |
| 261 | 5092-5228 | 2472-2444 | 5.76 | 20 | 144 | Day.Sq.Klms: | 7.2268 |
| 262 | 5228-5148 | 2480-2452 | 3.52 | 25 | 88 | Cumulative Totals | |
| 263 | 5228-5148 | 2488-2460 | 3.52 | 21 | 88 | Cum. VP's: | 38956 |
| | | | | | | Cum.Lin.Kms: | 1559.040 |
| | | | | | | Cum.Sq.Klm: | 495.900 |
| | | | | | | Lin.Kms.Remaining: | 0.000 |
| | | | | | | Sq.Kms.Remaining: | 0.000 |
| | | | | | | % Completed: | 100.00% |
| | | | | | | Average Daily Production Sq. Kms: | 8.405 |

HOURS

| Working Time - | Down Time - | Standby Time - | Daily Totals | |
|-------------------------|----------------------|-----------------------------|--------------------------|--------|
| Recording: 6.7 | Human Error: 0.2 | Toolbox/Safety Meeting: 0.3 | Working Time: | 9.9 |
| Requested Experimental: | Troubleshooting: 0.2 | Induction: | Standby Time: | 0.3 |
| Recorder Moveup: | Recorder: 0.2 | Weather: | Down Time: | 1.7 |
| Waiting on Spread: | Vibes: 0.1 | Other: | Non-Charge Time: | 0.7 |
| Vibe Detour: 1.2 | WOS: | | Total Day Hrs: | 12.6 |
| Terrain Detour: | Tests / Other: 1.2 | Other - | Cumulative Totals | |
| Traverse Move: 1.7 | | Mobilisation: | Working Time(Job): | 820.0 |
| Panel Move: | Non-Charge Time - | Intraprospect Move: | Standby Time(Job): | 78.7 |
| Swath Move: 0.3 | Travel Time: 0.7 | Spread Layout/Pickup: | Down Time(Job): | 48.4 |
| Other: | | Crew Demobe/Remobe: | Non-Charge Time(Job): | 42.0 |
| | | | Total Hrs (Job): | 1037.8 |

COMMENTS:

* 22.72 km recorded from 568vp's, 68 skips
 *Heaps of Downtime today, a couple of omit files from position errors, but the main one(1.2 hrs) was when the recorder generator died, the system did not have time to finish the shot, shut down & the tapes unload before the UPS went flat. Now have 1 bad tape, will re-copy at a later date.
 *Mechanics fixed fuel & battery problems with recorder generator, don't expect problem to re-occur.
 *BTW, if the generator was unrepairable & we had to source a spare, we would have been down for nearly a day getting one. I hope this never happens, but wouldnt a small spare genset, even a \$4500 3-in-1with enough grunt to run the recording system only, be a prudent purchase?
 * Still wet around, 4 hrs each way around the back roads to Moomba to get the food run. Line is not so bad, just a few wet areas to be avioded
 *Leo Baas(All Terrain 4x4) arrived to commence 3 days of DTEC training tomorrow.

Spread Movement

| Client: GAOG Spinel 3D | | | Date: Friday, 30 March 2007 | | | | |
|-------------------------|-----------|------|-----------------------------|-----------|------|---------------------|-----|
| Layout | | | Pickup | | | | |
| Line | Station # | Tot | Line | Station # | Tot | | |
| 2252 | 5093 | 5284 | 192 | 2156 | 5156 | 5093 | 64 |
| 2260 | 5093 | 5284 | 192 | 2164 | 5093 | 5284 | 192 |
| 2268 | 5093 | 5164 | 72 | 2172 | 5093 | 5284 | 192 |
| Total Stations: | | 456 | Total Stations: | | 448 | | |
| Equipment Report | | | Bad Phones: | | 14 | Bad Cable: 3 | |

Total Crew #'s: 46

Line #'s: 27

Light Vehicle #'s: 22

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
 Survey Name..... Spinel 3D
 Area..... PEL's 91 - 106
 State..... SA

CREW 402
 Party Manager.. Mark Kneipp
 Client Rep..... Bruce Beer
 Weather..... Fine/Cool
 DATE..... Saturday, 31 March 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | <u>Daily Totals</u> | |
|------------------|-----------|-----------|------|-------|------|-----------------------------------|----------|
| Continue Panel 2 | | | | | | VP's: | 558 |
| 262 | 5140-5092 | 2380-2452 | 2.24 | 0 | 56 | Skips: | 10 |
| 263 | 5140-5092 | 2388-2460 | 2.24 | 0 | 56 | Lin.Kms: | 22.7200 |
| 264 | 5092-5228 | 2396-2468 | 5.76 | 10 | 134 | Day.Sq.Klms: | 7.2268 |
| 265 | 5228-5092 | 2404-2476 | 5.76 | 0 | 144 | <u>Cumulative Totals</u> | |
| 266 | 5092-5172 | 2412-2484 | 3.52 | 0 | 88 | Cum. VP's: | 38956 |
| 267 | 5092-5172 | 2420-2492 | 3.2 | 0 | 80 | Cum.Lin.Kms: | 1559.040 |
| | | | | | | Cum.Sq.Klm: | 495.900 |
| | | | | | | Lin.Kms.Remaining: | 0.000 |
| | | | | | | Sq.Kms.Remaining: | 0.000 |
| | | | | | | % Completed: | 100.00% |
| | | | | | | Average Daily Production Sq. Kms: | 8.265 |

HOURS

| Working Time - | Down Time - | Standby Time - | <u>Daily Totals</u> | |
|-------------------------|----------------------|-----------------------------|--------------------------|--------|
| Recording: 7.3 | Human Error: 0.4 | Toolbox/Safety Meeting: 0.3 | Working Time: | 11.0 |
| Requested Experimental: | Troubleshooting: 0.4 | Induction: | Standby Time: | 0.3 |
| Recorder Moveup: 0.7 | Recorder: 0.1 | Weather: | Down Time: | 0.5 |
| Waiting on Spread: | Vibes: 0.1 | Other: | Non-Charge Time: | 0.9 |
| Vibe Detour: 0.3 | WOS: | Other - | Total Day Hrs: | 12.7 |
| Terrain Detour: | Tests / Other: | Mobilisation: | <u>Cumulative Totals</u> | |
| Traverse Move: 2.5 | Non-Charge Time - | Intraprospect Move: | Working Time(Job): | 820.0 |
| Panel Move: | Travel Time: 0.9 | Spread Layout/Pickup: | Standby Time(Job): | 78.7 |
| Swath Move: 0.2 | Other: | Crew Demobe/Remobe: | Down Time(Job): | 48.4 |
| | | | Non-Charge Time(Job): | 42.0 |
| | | | Total Hrs (Job): | 1037.8 |

COMMENTS:

- * 22.72 km recorded from 558 vp's, 10 skips due to salt lake
- * Back crew picking up through salt lake, steady going
- * Vibe DT from the encoder not making a time break.
- * 3 people went through driver training today, line numbers supplemented from elsewhere to keep it all rolling along.

Spread Movement

| Client: GAOG Spinel 3D | | | Date: Saturday, 31 March 2007 | | | | |
|------------------------|-----------|-------------|-------------------------------|------------|------|------|-----|
| Layout | | | Pickup | | | | |
| Line | Station # | Tot | Line | Station # | Tot | | |
| 2468 | 5165 | 5284 | 120 | 2380 | 5093 | 5284 | 192 |
| 2476 | 5093 | 5284 | 192 | 2388 | 5093 | 5284 | 192 |
| 2484 | 5093 | 5284 | 192 | 2396 | 5093 | 5284 | 192 |
| 2492 | 5093 | 5284 | 192 | 2404 | 5093 | 5284 | 192 |
| 2500 | 5093 | 5284 | 192 | 2412 | 5093 | 5105 | 13 |
| | | | | 2420 | 5093 | 5105 | 13 |
| Total Stations: | | 888 | Total Stations: | | 794 | | |
| Equipment Report | | Bad Phones: | 13 | Bad Cable: | | 1 | |

Total Crew #'s: 46 Line #'s: 27 Light Vehicle #'s: 22

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
 Survey Name. Spinel 3D
 Area..... PEL's 91 - 106
 State..... SA

CREW 402
 Party Manager.. Mark Kneipp
 Client Rep..... Bruce Beer
 Weather..... Fine/Cool
 DATE..... Sunday, 1 April 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | | Daily Totals |
|-------|--------|----------|------|-------|------|--|---|
| | | | | | | | VP's: 568 |
| | | | | | | | Skips: 0 |
| | | | | | | | Lin.Kms: 22.7200 |
| | | | | | | | Day.Sq.Klms: 7.2268 |
| | | | | | | | Cumulative Totals |
| | | | | | | | Cum. VP's: 38956 |
| | | | | | | | Cum.Lin.Kms: 1559.040 |
| | | | | | | | Cum.Sq.Klm: 495.900 |
| | | | | | | | Lin.Kms.Remaining: 0.000 |
| | | | | | | | Sq.Kms.Remaining: 0.000 |
| | | | | | | | % Completed: 100.00% |
| | | | | | | | Average Daily Production Sq. Kms: 8.130 |

HOURS

| Working Time - | Down Time - | Standby Time - | | Daily Totals |
|-------------------------|----------------------|-----------------------------|--|----------------------------|
| Recording: 7.2 | Human Error: 0.4 | Toolbox/Safety Meeting: 0.3 | | Working Time: 9.7 |
| Requested Experimental: | Troubleshooting: 0.5 | Induction: | | Standby Time: 0.3 |
| Recorder Moveup: | Recorder: 0.5 | Weather: | | Down Time: 1.4 |
| Waiting on Spread: | Vibes: | Other: | | Non-Charge Time: 1.0 |
| Vibe Detour: 0.8 | WOS: | | | Total Day Hrs: 12.4 |
| Terrain Detour: | Tests / Other: | Other - | | Cumulative Totals |
| Traverse Move: 1.7 | | Mobilisation: | | Working Time(Job): 820.0 |
| Panel Move: | Non-Charge Time - | Intraprospect Move: | | Standby Time(Job): 78.7 |
| Swath Move: | Travel Time: 1.0 | Spread Layout/Pickup: | | Down Time(Job): 48.4 |
| Other: | | Crew Demobe/Remobe: | | Non-Charge Time(Job): 42.0 |
| | | | | Total Hrs (Job): 1037.8 |

COMMENTS:

* 22.72 km recorded from 568 vp's
 * Well, that was an ordinary day. Safety meeting in the morning, followed shortly after by the Encoder playing up(0.5 DT Rec). Brought the spare Vib Pro out and, at the threat of replacement, it started working ok again
 *The vibes had a position error in the afternoon that was picked up on traverse, re-shoot (0.4 DT)
 *Back crew have picked up the last of the lines traversing the salt lake.
 *4WD training continued, Vibe Tech, 3 Juggys & 3 TC people went through it today. Another 4 to be trained tomorrow and all will be done.

Spread Movement

| Client: GAOG Spinel 3D | | | Date: Sunday, 1 April 2007 | | | | |
|------------------------|-----------|-------------|----------------------------|------------|------|------|-----|
| Layout | | | Pickup | | | | |
| Line | Station # | Tot | Line | Station # | Tot | | |
| 2508 | 5093 | 5284 | 192 | 2412 | 5106 | 5284 | 179 |
| 2516 | 5093 | 5284 | 192 | 2420 | 5106 | 5284 | 179 |
| 2524 | 5093 | 5284 | 192 | 2428 | 5093 | 5284 | 192 |
| 2532 | 5093 | 5284 | 192 | 2436 | 5093 | 5284 | 192 |
| Total Stations: | | 768 | Total Stations: | | 742 | | |
| Equipment Report | | Bad Phones: | 15 | Bad Cable: | | 3 | |

Total Crew #'s: 46 Line #'s: 27 Light Vehicle #'s: 22

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
 Survey Name..... Spinel 3D
 Area..... PEL's 91 - 106
 State..... SA

CREW 402
 Party Manager.. Mark Kneipp
 Client Rep..... Bruce Beer
 Weather..... Fine/Cool
 DATE..... Monday, 2 April 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | <u>Daily Totals</u> | |
|------------------|-----------|-----------|------|-------|------|-----------------------------------|----------|
| Continue Panel 2 | | | | | | VP's: | 656 |
| 270 | 5172-5228 | 2444-2516 | 2.56 | 0 | 64 | Skips: | 0 |
| 271 | 5172-5228 | 2452-2524 | 2.56 | 0 | 64 | Lin.Kms: | 26.2400 |
| 272 | 5228-5092 | 2460-2532 | 5.76 | 0 | 144 | Day.Sq.Klms: | 8.3464 |
| 273 | 5228-5092 | 2468-2540 | 5.76 | 0 | 144 | <u>Cumulative Totals</u> | |
| 274 | 5092-5204 | 2476-2548 | 4.8 | 0 | 120 | Cum. VP's: | 38956 |
| 275 | 5092-5204 | 2484-2556 | 4.8 | 0 | 120 | Cum.Lin.Kms: | 1559.040 |
| | | | | | | Cum.Sq.Klms: | 495.900 |
| | | | | | | Lin.Kms.Remaining: | 0.000 |
| | | | | | | Sq.Kms.Remaining: | 0.000 |
| | | | | | | % Completed: | 100.00% |
| | | | | | | Average Daily Production Sq. Kms: | 7.998 |

HOURS

| Working Time - | Down Time - | Standby Time - | <u>Daily Totals</u> | |
|-------------------------|----------------------|-----------------------------|--------------------------|--------|
| Recording: 8.3 | Human Error: | Toolbox/Safety Meeting: 0.3 | Working Time: | 10.7 |
| Requested Experimental: | Troubleshooting: 0.2 | Induction: | Standby Time: | 0.3 |
| Recorder Moveup: | Recorder: 0.1 | Weather: | Down Time: | 0.3 |
| Waiting on Spread: | Vibes: | Other: | Non-Charge Time: | 0.8 |
| Vibe Detour: 0.7 | WOS: | | Total Day Hrs: | 12.1 |
| Terrain Detour: | Tests / Other: | Other - | <u>Cumulative Totals</u> | |
| Traverse Move: 1.6 | | Mobilisation: | Working Time(Job): | 820.0 |
| Panel Move: | Non-Charge Time - | Intraprospect Move: | Standby Time(Job): | 78.7 |
| Swath Move: 0.1 | Travel Time: 0.8 | Spread Layout/Pickup: | Down Time(Job): | 48.4 |
| Other: | | Crew Demobe/Remobe: | Non-Charge Time(Job): | 42.0 |
| | | | Total Hrs (Job): | 1037.8 |

COMMENTS:

* 26.24 km recorded from 656 vp's
 * 2 system lockups
 * Continue production
 * There was an emergency medevac late today with a vibe op being bitten by a snake at approximately 2300 hrs. See HSE report for further details.

Spread Movement

| Client: GAOG Spinel 3D | | | Date: Monday, 2 April 2007 | | | | |
|------------------------|-----------|------|----------------------------|-----------|------|--------------|-----|
| Layout | | | Pickup | | | | |
| Line | Station # | Tot | Line | Station # | Tot | | |
| 2540 | 5093 | 5284 | 192 | 2444 | 5106 | 5284 | 179 |
| 2548 | 5093 | 5284 | 192 | 2452 | 5106 | 5284 | 179 |
| 2556 | 5093 | 5284 | 192 | 2460 | 5093 | 5284 | 192 |
| 2564 | 5093 | 5284 | 192 | 2468 | 5093 | 5284 | 192 |
| 2572 | 5284 | 5237 | 48 | 2476 | 5093 | 5138 | 46 |
| | | | | 2484 | 5093 | 5138 | 46 |
| Total Stations: | | 816 | Total Stations: | | 834 | | |
| Equipment Report | | | Bad Phones: | | 12 | Bad Cable: 1 | |

Total Crew #'s: 46 Line #'s: 27 Light Vehicle #'s: 22

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
 Survey Name. Spinel 3D
 Area..... PEL's 91 - 106
 State..... SA

CREW 402
 Party Manager.. Mark Kneipp
 Client Rep..... Bruce Beer
 Weather..... Fine/Cool
 DATE..... Tuesday, 3 April 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | <u>Daily Totals</u> | |
|------------------|-----------|-----------|------|-------|------|-----------------------------------|----------|
| Continue Panel 2 | | | | | | VP's: | 624 |
| 274 | 5212-5228 | 2476-2548 | 0.96 | 0 | 24 | Skips: | 0 |
| 275 | 5212-5228 | 2484-2556 | 0.96 | 0 | 24 | Lin.Kms: | 24.9600 |
| 276 | 5228-5092 | 2492-2564 | 5.76 | 0 | 144 | Day.Sq.Klms: | 7.9393 |
| 277 | 5228-5092 | 2500-2572 | 5.76 | 0 | 144 | <u>Cumulative Totals</u> | |
| 278 | 5092-5228 | 2508-2580 | 5.76 | 0 | 144 | Cum. VP's: | 38956 |
| 279 | 5092-5228 | 2516-2588 | 5.76 | 0 | 144 | Cum.Lin.Kms: | 1559.040 |
| | | | | | | Cum.Sq.Klm: | 495.900 |
| | | | | | | Lin.Kms.Remaining: | 0.000 |
| | | | | | | Sq.Kms.Remaining: | 0.000 |
| | | | | | | % Completed: | 100.00% |
| | | | | | | Average Daily Production Sq. Kms: | 7.871 |

HOURS

| Working Time - | Down Time - | Standby Time - | <u>Daily Totals</u> | |
|-------------------------|----------------------|-----------------------------|--------------------------|--------|
| Recording: 8.3 | Human Error: 0.2 | Toolbox/Safety Meeting: 0.3 | Working Time: | 11.2 |
| Requested Experimental: | Troubleshooting: 0.1 | Induction: | Standby Time: | 0.3 |
| Recorder Moveup: 0.6 | Recorder: 0.1 | Weather: | Down Time: | 0.4 |
| Waiting on Spread: | Vibes: | Other: | Non-Charge Time: | 0.7 |
| Vibe Detour: 0.2 | WOS: | | Total Day Hrs: | 12.6 |
| Terrain Detour: | Tests / Other: | Other - | <u>Cumulative Totals</u> | |
| Traverse Move: 1.9 | | Mobilisation: | Working Time(Job): | 820.0 |
| Panel Move: | Non-Charge Time - | Intraprospect Move: | Standby Time(Job): | 78.7 |
| Swath Move: 0.2 | Travel Time: 0.7 | Spread Layout/Pickup: | Down Time(Job): | 48.4 |
| Other: | | Crew Demobe/Remobe: | Non-Charge Time(Job): | 42.0 |
| | | | Total Hrs (Job): | 1037.8 |

COMMENTS:

- * 24.96 km recorded from 624 vp's
- * A recorder lockup and vibe position contributed to 0.3 hrs DT today
- * Production continues

Spread Movement

| Client: GAOG Spinel 3D | | | Date: Tuesday, 3 April 2007 | | | | |
|-------------------------|-----------|------|-----------------------------|-----------|------|---------------------|-----|
| Layout | | | Pickup | | | | |
| Line | Station # | Tot | Line | Station # | Tot | | |
| 2572 | 5236 | 5093 | 144 | 2476 | 5139 | 5284 | 146 |
| 2580 | 5093 | 5284 | 192 | 2484 | 5139 | 5284 | 146 |
| 2588 | 5093 | 5284 | 192 | 2492 | 5093 | 5284 | 192 |
| 2596 | 5093 | 5284 | 192 | 2500 | 5093 | 5284 | 192 |
| 2504 | 5093 | 5284 | 192 | 2508 | 5093 | 5164 | 72 |
| | | | | 2516 | 5093 | 5164 | 72 |
| Total Stations: | | 912 | Total Stations: | | 820 | | |
| Equipment Report | | | Bad Phones: | | 10 | Bad Cable: 1 | |

Total Crew #'s: 45 Line #'s: 27 Light Vehicle #'s: 22

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
 Survey Name..... Spinel 3D
 Area..... PEL's 91 - 106
 State..... SA

CREW 402
 Party Manager.. Mark Kneipp
 Client Rep..... Bruce Beer
 Weather..... Fine/Cool
 DATE..... Wednesday, 4 April 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | | Daily Totals |
|-------|--------|----------|------|-------|------|--|---|
| | | | | | | | VP's: 640 |
| | | | | | | | Skips: 0 |
| | | | | | | | Lin.Kms: 25.6000 |
| | | | | | | | Day.Sq.Klms: 8.1429 |
| | | | | | | | Cumulative Totals |
| | | | | | | | Cum. VP's: 38956 |
| | | | | | | | Cum.Lin.Kms: 1559.040 |
| | | | | | | | Cum.Sq.Klm: 495.900 |
| | | | | | | | Lin.Kms.Remaining: 0.000 |
| | | | | | | | Sq.Kms.Remaining: 0.000 |
| | | | | | | | % Completed: 100.00% |
| | | | | | | | Average Daily Production Sq. Kms: 7.748 |

HOURS

| Working Time - | Down Time - | Standby Time - | Daily Totals |
|-------------------------|----------------------|-----------------------------|----------------------------|
| Recording: 7.7 | Human Error: 0.2 | Toolbox/Safety Meeting: 0.3 | Working Time: 10.6 |
| Requested Experimental: | Troubleshooting: 0.5 | Induction: 0.7 | Standby Time: 0.3 |
| Recorder Moveup: | Recorder: 0.5 | Weather: 0.7 | Down Time: 0.7 |
| Waiting on Spread: | Vibes: 0.7 | Other: 0.7 | Non-Charge Time: 0.7 |
| Vibe Detour: 0.5 | WOS: 0.7 | | Total Day Hrs: 12.3 |
| Terrain Detour: | Tests / Other: 0.7 | | Cumulative Totals |
| Traverse Move: 2.2 | | Other - | Working Time(Job): 820.0 |
| Panel Move: | Non-Charge Time - | Mobilisation: | Standby Time(Job): 78.7 |
| Swath Move: 0.2 | Travel Time: 0.7 | Intraprospect Move: | Down Time(Job): 48.4 |
| Other: | | Spread Layout/Pickup: | Non-Charge Time(Job): 42.0 |
| | | Crew Demobe/Remobe: | Total Hrs (Job): 1037.8 |

COMMENTS:

- * 25.6 km recorded from 640 vp's
- * Crazy line today right from the dailies on, random crashing & sys lockups. 0.5 DT
- * Production continues

Spread Movement

| Client: GAOG Spinel 3D | | | Date: Wednesday, 4 April 2007 | | |
|------------------------|-----------|------|-------------------------------|-----------|------|
| Layout | | | Pickup | | |
| Line | Station # | Tot | Line | Station # | Tot |
| 2612 | 5093 | 5284 | 192 | 2508 | 5165 |
| | | | | | 5284 |
| 2620 | 5093 | 5284 | 192 | 2516 | 5165 |
| | | | | | 5284 |
| 2628 | 5093 | 5284 | 192 | 2524 | 5093 |
| | | | | | 5284 |
| 2636 | 5093 | 5284 | 192 | 2532 | 5093 |
| | | | | | 5284 |
| 2644 | 5093 | 5164 | 72 | 2540 | 5093 |
| | | | | | 5284 |
| | | | | 2548 | 5093 |
| | | | | | 5284 |
| | | | | | 192 |
| Total Stations: | | 840 | Total Stations: | | 1008 |
| Equipment Report | | | Bad Phones: | | 10 |
| | | | Bad Cable: | | |

Total Crew #'s: 45 Line #'s: 27 Light Vehicle #'s: 22

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
 Survey Name. Spinel 3D
 Area..... PEL's 91 - 106
 State..... SA

CREW 402
 Party Manager.. Mark Kneipp
 Client Rep..... Bruce Beer
 Weather..... Fine/Cool
 DATE..... Thursday, 5 April 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | | <u>Daily Totals</u> |
|------------------|-----------|-----------|------|-------|------|--|---|
| Continue Panel 2 | | | | | | | VP's: 656 |
| 284 | 5196-5092 | 2556-2628 | 4.48 | 0 | 112 | | Skips: 0 |
| 285 | 5196-5092 | 2564-2636 | 4.48 | 0 | 112 | | Lin.Kms: 26.2400 |
| 286 | 5092-5228 | 2572-2644 | 5.76 | 0 | 144 | | Day.Sq.Klms: 8.3464 |
| 287 | 5092-5228 | 2580-2652 | 5.76 | 0 | 144 | | |
| 288 | 5228-5164 | 2588-2660 | 2.88 | 0 | 72 | | <u>Cumulative Totals</u> |
| 289 | 5228-5164 | 2596-2668 | 2.88 | 0 | 72 | | Cum. VP's: 38956 |
| | | | | | | | Cum.Lin.Kms: 1559.040 |
| | | | | | | | Cum.Sq.Klm: 495.900 |
| | | | | | | | Lin.Kms.Remaining: 0.000 |
| | | | | | | | Sq.Kms.Remaining: 0.000 |
| | | | | | | | % Completed: 100.00% |
| | | | | | | | Average Daily Production Sq. Kms: 7.629 |

HOURS

| Working Time - | Down Time - | Standby Time - | | <u>Daily Totals</u> |
|-------------------------|----------------------|-----------------------------|--|----------------------------|
| Recording: 8.0 | Human Error: | Toolbox/Safety Meeting: 0.3 | | Working Time: 11.2 |
| Requested Experimental: | Troubleshooting: 0.3 | Induction: | | Standby Time: 0.3 |
| Recorder Moveup: | Recorder: | Weather: | | Down Time: 0.3 |
| Waiting on Spread: | Vibes: | Other: | | Non-Charge Time: 0.5 |
| Vibe Detour: 1.0 | WOS: | | | Total Day Hrs: 12.3 |
| Terrain Detour: | Tests / Other: | Other - | | <u>Cumulative Totals</u> |
| Traverse Move: 2.0 | | Mobilisation: | | Working Time(Job): 820.0 |
| Panel Move: | Non-Charge Time - | Intraprospect Move: | | Standby Time(Job): 78.7 |
| Swath Move: 0.2 | Travel Time: 0.5 | Spread Layout/Pickup: | | Down Time(Job): 48.4 |
| Other: | | Crew Demobe/Remobe: | | Non-Charge Time(Job): 42.0 |
| | | | | Total Hrs (Job): 1037.8 |

COMMENTS:

- * 26.24 km recorded from 656 vp's
- * Crew change, 2 out, 2 in via Moomba
- * Production continues

Spread Movement

| Client: GAOG Spinel 3D | | | Date: Thursday, 5 April 2007 | | |
|-------------------------|-----------|------|------------------------------|-----------|------|
| Layout | | | Pickup | | |
| Line | Station # | Tot | Line | Station # | Tot |
| 2644 | 5165 | 5284 | 120 | 2556 | 5093 |
| | | | | 5284 | 192 |
| 2652 | 5093 | 5284 | 192 | 2564 | 5093 |
| | | | | 5284 | 192 |
| 2660 | 5093 | 5284 | 192 | 2572 | 5093 |
| | | | | 5284 | 192 |
| 2668 | 5093 | 5300 | 208 | 2580 | 5093 |
| | | | | 5284 | 192 |
| 2676 | 5093 | 5196 | 104 | 2588 | 5093 |
| | | | | 5222 | 130 |
| | | | | 2596 | 5093 |
| | | | | 5222 | 130 |
| Total Stations: | | 816 | Total Stations: | | 1028 |
| Equipment Report | | | Bad Phones: 3 | | |
| | | | Bad Cable: 1 | | |

Total Crew #'s: 45 Line #'s: 27 Light Vehicle #'s: 22

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
 Survey Name..... Spinel 3D
 Area..... PEL's 91 - 106
 State..... SA

CREW 402
 Party Manager.. Mark Kneipp
 Client Rep..... Bruce Beer
 Weather..... Fine/Cool
 DATE..... Friday, 6 April 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | <u>Daily Totals</u> | |
|------------------|-----------|-----------|------|-------|------|-----------------------------------|----------|
| Continue Panel 2 | | | | | | VP's: | 648 |
| 288 | 5156-5092 | 2588-2660 | 2.88 | 0 | 72 | Skips: | 0 |
| 289 | 5156-5092 | 2596-2668 | 2.88 | 0 | 72 | Lin.Kms: | 25.9200 |
| 290 | 5092-5228 | 2604-2676 | 5.76 | 0 | 144 | Day.Sq.Klms: | 8.2446 |
| 291 | 5228-5092 | 2612-2684 | 5.76 | 0 | 144 | <u>Cumulative Totals</u> | |
| 292 | 5228-5092 | 2620-2692 | 5.76 | 0 | 144 | Cum. VP's: | 38956 |
| 293 | 5092-5124 | 2628-2700 | 1.6 | 0 | 40 | Cum.Lin.Kms: | 1559.040 |
| 294 | 5092-5116 | 2636-2708 | 1.28 | 0 | 32 | Cum.Sq.Klm: | 495.900 |
| | | | | | | Lin.Kms.Remaining: | 0.000 |
| | | | | | | Sq.Kms.Remaining: | 0.000 |
| | | | | | | % Completed: | 100.00% |
| | | | | | | Average Daily Production Sq. Kms: | 7.514 |

HOURS

| Working Time - | | | | Down Time - | | Standby Time - | | <u>Daily Totals</u> | |
|-------------------------|-----|-------------------|-----|-------------------------|-----|--------------------|--------|--------------------------|------|
| Recording: | 7.8 | Human Error: | 0.2 | Toolbox/Safety Meeting: | 0.3 | Working Time: | 11.5 | Standby Time: | 0.3 |
| Requested Experimental: | | Troubleshooting: | 0.2 | Induction: | | Down Time: | 0.5 | Non-Charge Time: | 0.5 |
| Recorder Moveup: | 0.8 | Recorder: | 0.1 | Weather: | | Total Day Hrs: | 12.8 | <u>Cumulative Totals</u> | |
| Waiting on Spread: | | Vibes: | | Other: | | Working Time(Job): | 820.0 | Standby Time(Job): | 78.7 |
| Vibe Detour: | 0.5 | WOS: | | Other - | | Down Time(Job): | 48.4 | Non-Charge Time(Job): | 42.0 |
| Terrain Detour: | | Tests / Other: | | Mobilisation: | | Total Hrs (Job): | 1037.8 | | |
| Traverse Move: | 2.2 | | | Intraprospect Move: | | | | | |
| Panel Move: | | Non-Charge Time - | | Spread Layout/Pickup: | | | | | |
| Swath Move: | 0.2 | Travel Time: | 0.5 | Crew Demobe/Remobe: | | | | | |
| Other: | | | | | | | | | |

COMMENTS:

- * 25.92 km recorded from 648 vp's
- * Recorder DT from 1 sys lockup & 7 omit files
- * Production continues

Spread Movement

| Client: GAOG Spinel 3D | | | | Date: Friday, 6 April 2007 | | | | |
|-------------------------|-----------|------|-----|----------------------------|-----------|------|---------------------|--|
| Layout | | | | Pickup | | | | |
| Line | Station # | Tot | | Line | Station # | Tot | | |
| 2676 | 5197 | 5300 | 104 | 2588 | 5223 | 5284 | 62 | |
| 2684 | 5093 | 5300 | 208 | 2596 | 5223 | 5284 | 62 | |
| 2692 | 5093 | 5300 | 208 | 2604 | 5093 | 5284 | 192 | |
| 2700 | 5093 | 5300 | 208 | 2612 | 5093 | 5284 | 192 | |
| 2708 | 5093 | 5300 | 208 | 2620 | 5093 | 5284 | 192 | |
| 2716 | 5300 | 5196 | 105 | | | | | |
| Total Stations: | | 1041 | | Total Stations: | | 700 | | |
| Equipment Report | | | | Bad Phones: | | 20 | Bad Cable: 2 | |

Total Crew #'s: 45 Line #'s: 25 Light Vehicle #'s: 22

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
 Survey Name..... Spinel 3D
 Area..... PEL's 91 - 106
 State..... SA

CREW 402
 Party Manager.. Mark Kneipp
 Client Rep..... Bruce Beer
 Weather..... Fine/Cool
 DATE..... Saturday, 7 April 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's |
|-------------------------|-----------|-----------|------|-------|------|
| Continue Panel 2 | | | | | |
| 293 | 5132-5228 | 2628-2700 | 4.16 | 0 | 104 |
| 294 | 5124-5228 | 2636-2708 | 4.48 | 0 | 112 |
| 295 | 5228-5092 | 2644-2716 | 5.76 | 0 | 144 |
| 296 | 5092-5228 | 2652-2724 | 5.76 | 0 | 144 |
| 297 | 5092-5228 | 2660-2732 | 5.76 | 0 | 144 |

| <u>Daily Totals</u> | |
|-----------------------------------|----------|
| VP's: | 648 |
| Skips: | 0 |
| Lin.Kms: | 25.9200 |
| Day.Sq.Klms: | 8.2446 |
| <u>Cumulative Totals</u> | |
| Cum. VP's: | 38956 |
| Cum.Lin.Kms: | 1559.040 |
| Cum.Sq.Klms: | 495.900 |
| Lin.Kms.Remaining: | 0.000 |
| Sq.Kms.Remaining: | 0.000 |
| % Completed: | 100.00% |
| Average Daily Production Sq. Kms: | 7.401 |

HOURS

| Working Time - | Down Time - | Standby Time - |
|------------------------|----------------------|-----------------------------|
| Recording: 8.6 | Human Error: 0.1 | Toolbox/Safety Meeting: 0.3 |
| Recorder Moveup: 0.5 | Troubleshooting: 0.5 | Induction: 0.5 |
| Waiting on Spread: 0.3 | Vibes: 0.3 | Weather: 0.3 |
| Vibe Detour: 0.3 | WOS: 0.3 | Other: 0.3 |
| Terrain Detour: 0.3 | Tests / Other: 0.3 | Other - |
| Travel Move: 2.3 | Non-Charge Time - | Mobilisation: 0.3 |
| Panel Move: 0.1 | Travel Time: 0.3 | Intraprospect Move: 0.3 |
| Other: 0.1 | | Spread Layout/Pickup: 0.3 |
| | | Crew Demobe/Remobe: 0.3 |

| <u>Daily Totals</u> | |
|--------------------------|--------|
| Working Time: | 11.0 |
| Standby Time: | 0.3 |
| Down Time: | 0.6 |
| Non-Charge Time: | 0.3 |
| Total Day Hrs: | 12.2 |
| <u>Cumulative Totals</u> | |
| Working Time(Job): | 820.0 |
| Standby Time(Job): | 78.7 |
| Down Time(Job): | 48.4 |
| Non-Charge Time(Job): | 42.0 |
| Total Hrs (Job): | 1037.8 |

COMMENTS:

- * 25.92 km recorded from 648 vp's
- * Recorder DT from some line crashes and 1 lockup
- * Production continues, estimated completion of recording is 16 April, prospect move 18 April

Spread Movement

| Client: GAOG Spinel 3D | | | Date: Saturday, 7 April 2007 | | | | |
|----------------------------|-----------|----------------------|------------------------------|-----------|------|------|-----|
| Layout | | | Pickup | | | | |
| Line | Station # | Tot | Line | Station # | Tot | | |
| 2716 | 5195 | 5093 | 103 | 2628 | 5093 | 5284 | 192 |
| 2724 | 5093 | 5300 | 208 | 2636 | 5093 | 5284 | 192 |
| 2732 | 5093 | 5300 | 208 | 2644 | 5093 | 5284 | 192 |
| 2740 | 5093 | 5300 | 208 | 2652 | 5093 | 5164 | 72 |
| | | | | 2660 | 5093 | 5164 | 72 |
| Total Stations: 727 | | | Total Stations: 720 | | | | |
| Equipment Report | | Bad Phones: 8 | Bad Cable: 1 | | | | |

Total Crew #'s: 45 Line #'s: 25 Light Vehicle #'s: 22

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
 Survey Name..... Spinel 3D
 Area..... PEL's 91 - 106
 State..... SA

CREW 402
 Party Manager.. Mark Kneipp
 Client Rep..... Bruce Beer
 Weather..... Fine/Cool
 DATE..... Sunday, 8 April 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's |
|------------------|-----------|-----------|------|-------|------|
| Continue Panel 2 | | | | | |
| 298 | 5300-5092 | 2668-2740 | 8.64 | 0 | 216 |
| 299 | 5092-5284 | 2676-2748 | 8 | 0 | 200 |
| 300 | 5092-5284 | 2684-2756 | 8 | 0 | 200 |

| Daily Totals | |
|--------------|---------|
| VP's: | 616 |
| Skips: | 0 |
| Lin.Kms: | 24.6400 |
| Day.Sq.Klms: | 7.8375 |

| Cumulative Totals | |
|-----------------------------------|----------|
| Cum. VP's: | 38956 |
| Cum.Lin.Kms: | 1559.040 |
| Cum.Sq.Klms: | 495.900 |
| Lin.Kms.Remaining: | 0.000 |
| Sq.Kms.Remaining: | 0.000 |
| % Completed: | 100.00% |
| Average Daily Production Sq. Kms: | 7.293 |

HOURS

| Working Time - | Down Time - | Standby Time - |
|--------------------|----------------------|-----------------------------|
| Recording: 7.5 | Human Error: | Toolbox/Safety Meeting: 0.3 |
| Recorder Moveup: | Troubleshooting: 0.5 | Induction: |
| Waiting on Spread: | Recorder: | Weather: |
| Vibe Detour: 0.2 | Vibes: | Other: |
| Terrain Detour: | WOS: | |
| Traverse Move: 2.5 | Tests / Other: | Other - |
| Panel Move: | | Mobilisation: |
| Swath Move: 0.6 | Non-Charge Time - | Intraprospect Move: |
| Other: | Travel Time: 0.3 | Spread Layout/Pickup: |
| | | Crew Demobe/Remobe: |

| Daily Totals | |
|-----------------------|--------|
| Working Time: | 10.8 |
| Standby Time: | 0.3 |
| Down Time: | 0.5 |
| Non-Charge Time: | 0.3 |
| Total Day Hrs: | 11.9 |
| Cumulative Totals | |
| Working Time(Job): | 820.0 |
| Standby Time(Job): | 78.7 |
| Down Time(Job): | 48.4 |
| Non-Charge Time(Job): | 42.0 |
| Total Hrs (Job): | 1037.8 |

COMMENTS:

* 24.64 km recorded from 616 vp's
 * Included in troubleshooting time is 0.3 hrs from an extra long Safety Meeting
 * Production continues

Spread Movement

Client: GAOG Spinel 3D Date: Sunday, 8 April 2007

| Layout | | | | Pickup | | | |
|---------------------|-----------|------|-----|---------------------|-----------|------|-----|
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2748 | 5093 | 5300 | 208 | 2652 | 5165 | 5284 | 120 |
| 2756 | 5093 | 5300 | 208 | 2660 | 5165 | 5284 | 120 |
| 2764 | 5300 | 5200 | 101 | 2668 | 5093 | 5300 | 208 |
| 2772 | 5300 | 5173 | 128 | 2676 | 5093 | 5200 | 108 |
| | | | | 2684 | 5093 | 5200 | 108 |
| Total Stations: 645 | | | | Total Stations: 664 | | | |

Total Crew #'s: 45 Line #'s: 25 Light Vehicle #'s: 22

Equipment Report Bad Phones: 9 Bad Cable:

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
 Survey Name..... Spinel 3D
 Area..... PEL's 91 - 106
 State..... SA

CREW 402
 Party Manager.. Mark Kneipp
 Client Rep..... Bruce Beer
 Weather..... Fine/Cool
 DATE..... Monday, 9 April 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's |
|------------------|-----------|-----------|------|-------|------|
| Continue Panel 2 | | | | | |
| 299 | 5292-5300 | 2676-2748 | 0.64 | 0 | 16 |
| 300 | 5292-5300 | 2684-2756 | 0.64 | 0 | 16 |
| 301 | 5300-5092 | 2692-2764 | 8.64 | 0 | 216 |
| 302 | 5300-5092 | 2700-2772 | 8.64 | 0 | 216 |
| 303 | 5092-5212 | 2708-2780 | 5.12 | 0 | 128 |
| 304 | 5092-5212 | 2716-2788 | 5.12 | 0 | 128 |

Daily Totals
 VP's: 720
 Skips: 0
 Lin.Kms: 28.8000
 Day.Sq.Klms: 9.1607

Cumulative Totals
 Cum. VP's: 38956
 Cum.Lin.Kms: 1559.040
 Cum.Sq.Klm: 495.900
 Lin.Kms.Remaining: 0.000
 Sq.Kms.Remaining: 0.000
 % Completed: 100.00%
 Average Daily Production Sq. Kms: 7.187

HOURS

| Working Time - | Down Time - | Standby Time - |
|------------------------|--------------------|-----------------------------|
| Recording: 8.8 | Human Error: 0.1 | Toolbox/Safety Meeting: 0.3 |
| Recorder Moveup: 0.4 | Recorder: 0.1 | Induction: 0.1 |
| Waiting on Spread: 0.4 | Vibes: 0.1 | Weather: 0.1 |
| Vibe Detour: 0.4 | WOS: 0.1 | Other: 0.1 |
| Terrain Detour: 1.8 | Tests / Other: 0.1 | Other - |
| Travel Move: 1.8 | Non-Charge Time - | Mobilisation: 0.1 |
| Panel Move: 0.1 | Travel Time: 0.3 | Intraprospect Move: 0.1 |
| Swath Move: 0.1 | Travel Time: 0.3 | Spread Layout/Pickup: 0.1 |
| Other: 0.1 | | Crew Demobe/Remobe: 0.1 |

Daily Totals
 Working Time: 11.1
 Standby Time: 0.3
 Down Time: 0.1
 Non-Charge Time: 0.3
 Total Day Hrs: 11.8
Cumulative Totals
 Working Time(Job): 820.0
 Standby Time(Job): 78.7
 Down Time(Job): 48.4
 Non-Charge Time(Job): 42.0
 Total Hrs (Job): 1037.8

COMMENTS:

* 24.64 km recorded from 616 vp's
 *Shane Goosens arrived on crew
 *Production continues

Spread Movement

| Client: GAOG Spinel 3D | | | Date: Monday, 9 April 2007 | | | | |
|-------------------------|-----------|------|----------------------------|-----------|------|---------------------|-----|
| Layout | | | Pickup | | | | |
| Line | Station # | Tot | Line | Station # | Tot | | |
| 2764 | 5172 | 5093 | 80 | 2676 | 5201 | 5300 | 100 |
| 2772 | 5172 | 5093 | 80 | 2684 | 5201 | 5300 | 100 |
| 2780 | 5093 | 5300 | 208 | 2692 | 5093 | 5300 | 208 |
| 2788 | 5093 | 5300 | 208 | 2700 | 5093 | 5300 | 208 |
| 2796 | 5300 | 5225 | 76 | 2708 | 5093 | 5142 | 50 |
| 2704 | 5300 | 5225 | 76 | 2716 | 5093 | 5142 | 50 |
| Total Stations: | | 728 | Total Stations: | | 716 | | |
| Equipment Report | | | Bad Phones: | | 6 | Bad Cable: 1 | |

Total Crew #'s: 46 Line #'s: 25 Light Vehicle #'s: 22

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
 Survey Name. Spinel 3D
 Area..... PEL's 91 - 106
 State..... SA

CREW 402
 Party Manager.. Mark Kneipp
 Client Rep..... Bruce Beer
 Weather..... Fine/Cool
 DATE..... Tuesday, 10 April 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | | Daily Totals |
|-------|--------|----------|------|-------|------|--|---|
| | | | | | | | VP's: 688 |
| | | | | | | | Skips: 0 |
| | | | | | | | Lin.Kms: 27.5200 |
| | | | | | | | Day.Sq.Klms: 8.7536 |
| | | | | | | | Cumulative Totals |
| | | | | | | | Cum. VP's: 38956 |
| | | | | | | | Cum.Lin.Kms: 1559.040 |
| | | | | | | | Cum.Sq.Klm: 495.900 |
| | | | | | | | Lin.Kms.Remaining: 0.000 |
| | | | | | | | Sq.Kms.Remaining: 0.000 |
| | | | | | | | % Completed: 100.00% |
| | | | | | | | Average Daily Production Sq. Kms: 7.084 |

HOURS

| Working Time - | Down Time - | Standby Time - | | Daily Totals |
|-------------------------|----------------------|-----------------------------|--|----------------------------|
| Recording: 8.5 | Human Error: 0.2 | Toolbox/Safety Meeting: 0.3 | | Working Time: 11.6 |
| Requested Experimental: | Troubleshooting: 0.2 | Induction: | | Standby Time: 0.3 |
| Recorder Moveup: 0.6 | Recorder: 0.2 | Weather: | | Down Time: 0.4 |
| Waiting on Spread: | Vibes: | Other: | | Non-Charge Time: 0.4 |
| Vibe Detour: 0.4 | WOS: | | | Total Day Hrs: 12.7 |
| Terrain Detour: | Tests / Other: | Other - | | Cumulative Totals |
| Traverse Move: 2.1 | | Mobilisation: | | Working Time(Job): 820.0 |
| Panel Move: | Non-Charge Time - | Intraprospect Move: | | Standby Time(Job): 78.7 |
| Swath Move: | Travel Time: 0.4 | Spread Layout/Pickup: | | Down Time(Job): 48.4 |
| Other: | | Crew Demobe/Remobe: | | Non-Charge Time(Job): 42.0 |
| | | | | Total Hrs (Job): 1037.8 |

COMMENTS:

* 27.52 km recorded from 688 vp's
 *2 recorder lockups
 *Eddie Manning went out on break

Spread Movement

Client: GAOG Spinel 3D Date: Tuesday, 10 April 2007

| Layout | | | Pickup | | | | |
|----------------------------|-----------|----------------------|----------------------------|-----------|------|------|-----|
| Line | Station # | Tot | Line | Station # | Tot | | |
| 2796 | 5224 | 5093 | 132 | 2708 | 5143 | 5300 | 158 |
| 2704 | 5224 | 5093 | 132 | 2716 | 5143 | 5300 | 158 |
| 2712 | 5093 | 5300 | 208 | 2724 | 5093 | 5300 | 208 |
| 2720 | 5093 | 5300 | 208 | 2732 | 5093 | 5300 | 208 |
| Total Stations: 680 | | | Total Stations: 732 | | | | |
| Equipment Report | | Bad Phones: 7 | Bad Cable: | | | | |

Total Crew #'s: 45 Line #'s: 25 Light Vehicle #'s: 22

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
 Survey Name. Spinel 3D
 Area..... PEL's 91 - 106
 State..... SA

CREW 402
 Party Manager.. Mark Kneipp
 Client Rep..... Bruce Beer
 Weather..... Fine/Cool
 DATE..... Wednesday, 11 April 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's |
|------------------|-----------|-----------|------|-------|------|
| Continue Panel 2 | | | | | |
| 307 | 5132-5300 | 2740-2812 | 7.04 | 0 | 176 |
| 308 | 5132-5300 | 2748-2820 | 7.04 | 0 | 176 |
| 309 | 5300-5108 | 2756-2828 | 8 | 0 | 200 |
| 310 | 5300-5108 | 2764-2836 | 8 | 0 | 200 |

Daily Totals
 VP's: 752
 Skips: 0
 Lin.Kms: 30.0800
 Day.Sq.Klms: 9.5679

Cumulative Totals
 Cum. VP's: 38956
 Cum.Lin.Kms: 1559.040
 Cum.Sq.Klms: 495.900
 Lin.Kms.Remaining: 0.000
 Sq.Kms.Remaining: 0.000
 % Completed: 100.00%
 Average Daily Production Sq. Kms: 6.985

HOURS

| Working Time - | Down Time - | Standby Time - |
|--------------------|--------------------------|-----------------------------|
| Recording: 9.0 | Human Error: | Toolbox/Safety Meeting: 0.3 |
| Recorder Moveup: | Troubleshooting: 0.1 | Induction: |
| Waiting on Spread: | Recorder: 0.1 | Weather: |
| Vibe Detour: 0.2 | Vibes: | Other: |
| Terrain Detour: | WOS: | |
| Traverse Move: 2.1 | Tests / Other: | Other - |
| Panel Move: | | Mobilisation: |
| Swath Move: | Non-Charge Time - | Intraprospect Move: |
| Other: | Travel Time: 0.5 | Spread Layout/Pickup: |
| | | Crew Demobe/Remobe: |

Daily Totals
 Working Time: 11.3
 Standby Time: 0.3
 Down Time: 0.2
 Non-Charge Time: 0.5
 Total Day Hrs: 12.3
Cumulative Totals
 Working Time(Job): 820.0
 Standby Time(Job): 78.7
 Down Time(Job): 48.4
 Non-Charge Time(Job): 42.0
 Total Hrs (Job): 1037.8

COMMENTS:

- * 30.08 km recorded from 752 vp's
- * A couple of omit files for recorder downtime
- * On target to complete recording Sunday
- * Leeton McHugh demobed to crew 403, taking 173JNA(the Nissan) with him.

Spread Movement

| Client: GAOG Spinel 3D | | | | Date: Wednesday, 11 April 2007 | | | |
|-------------------------|-----------|------|------------------------|--------------------------------|------|------|-----|
| Layout | | | Pickup | | | | |
| Line | Station # | Tot | Line | Station # | Tot | Line | Tot |
| 2828 | 5093 | 5300 | 208 | 2740 | 5093 | 5300 | 208 |
| 2836 | 5093 | 5300 | 208 | 2748 | 5093 | 5300 | 208 |
| 2844 | 5093 | 5248 | 156 | 2756 | 5300 | 5177 | 124 |
| 2852 | 5093 | 5248 | 156 | 2764 | 5300 | 5177 | 124 |
| Total Stations: | | 728 | Total Stations: | | 664 | | |
| Equipment Report | | | | Bad Phones: | | 4 | |
| | | | | Bad Cable: | | | |

Total Crew #'s: 45 Line #'s: 25 Light Vehicle #'s: 21

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
 Survey Name. Spinel 3D
 Area..... PEL's 91 - 106
 State..... SA

CREW 402
 Party Manager.. Mark Kneipp
 Client Rep..... Bruce Beer
 Weather..... Fine/Cool
 DATE..... Thursday, 12 April 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's |
|------------------|-----------|-----------|------|-------|------|
| Continue Panel 2 | | | | | |
| 309 | 5100-5092 | 2756-2828 | 0.64 | 0 | 16 |
| 310 | 5100-5092 | 2764-2836 | 0.64 | 0 | 16 |
| 311 | 5092-5300 | 2772-2844 | 8.64 | 0 | 216 |
| 312 | 5092-5300 | 2780-2852 | 8.64 | 0 | 216 |
| 313 | 5300-5024 | 2788-2860 | 4.16 | 0 | 104 |
| 314 | 5300-5024 | 2796-2868 | 4.16 | 0 | 104 |

Daily Totals
 VP's: 672
 Skips: 0
 Lin.Kms: 26.8800
 Day.Sq.Klms: 8.5500

Cumulative Totals
 Cum. VP's: 38956
 Cum.Lin.Kms: 1559.040
 Cum.Sq.Klm: 495.900
 Lin.Kms.Remaining: 0.000
 Sq.Kms.Remaining: 0.000
 % Completed: 100.00%
 Average Daily Production Sq. Kms: 6.887

HOURS

| Working Time - | Down Time - | Standby Time - |
|------------------------|--------------------|-----------------------------|
| Recording: 8.2 | Human Error: 0.2 | Toolbox/Safety Meeting: 0.3 |
| Recorder Moveup: 0.8 | Recorder: 0.2 | Induction: 0.4 |
| Waiting on Spread: 0.8 | WOS: 0.2 | Weather: 0.4 |
| Vibe Detour: 0.8 | Tests / Other: 0.2 | Other: 0.5 |
| Terrain Detour: 1.8 | Non-Charge Time - | Other - |
| Panel Move: 0.1 | Travel Time: 0.5 | Mobilisation: 0.3 |
| Swath Move: 0.1 | | Intraprospect Move: 0.3 |
| Other: 0.1 | | Spread Layout/Pickup: 0.3 |
| | | Crew Demobe/Remobe: 0.3 |

Daily Totals
 Working Time: 10.9
 Standby Time: 0.3
 Down Time: 0.4
 Non-Charge Time: 0.5
 Total Day Hrs: 12.1
Cumulative Totals
 Working Time(Job): 820.0
 Standby Time(Job): 78.7
 Down Time(Job): 48.4
 Non-Charge Time(Job): 42.0
 Total Hrs (Job): 1037.8

COMMENTS:

- * 26.88 km recorded from 672 vp's
- * Crew change day today, 10 out, 11 in via charter plane. Another 2 out, 3 in tomorrow via Nat Jet.
- * Chris Carty visiting for the night.
- * Production continues on target.

Spread Movement

| Client: GAOG Spinel 3D | | | | Date: Thursday, 12 April 2007 | | | |
|------------------------|-----------|-------------|-----------------|-------------------------------|------|------|-----|
| Layout | | | Pickup | | | | |
| Line | Station # | Tot | Line | Station # | Tot | Line | Tot |
| 2844 | 5249 | 5300 | 52 | 2756 | 5176 | 5093 | 84 |
| 2852 | 5249 | 5300 | 52 | 2764 | 5176 | 5093 | 84 |
| 2860 | 5093 | 5300 | 208 | 2772 | 5093 | 5300 | 208 |
| 2868 | 5093 | 5300 | 208 | 2780 | 5093 | 5300 | 208 |
| 2876 | 5093 | 5168 | 76 | 2788 | 5300 | 5271 | 30 |
| 2884 | 5093 | 5168 | 76 | 2796 | 5300 | 5271 | 30 |
| Total Stations: | | 672 | Total Stations: | | 644 | | |
| Equipment Report | | Bad Phones: | 3 | Bad Cable: | | 2 | |

Total Crew #'s: 46 Line #'s: 24 Light Vehicle #'s: 21

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
 Survey Name. Spinel 3D
 Area..... PEL's 91 - 106
 State..... SA

CREW 402
 Party Manager.. Mark Kneipp
 Client Rep..... Bruce Beer
 Weather..... Fine/Cool
 DATE..... Friday, 13 April 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | | Daily Totals |
|------------------|-----------|-----------|------|-------|------|--|---|
| Continue Panel 2 | | | | | | | VP's: 720 |
| 313 | 5196-5092 | 2788-2860 | 4.48 | 0 | 112 | | Skips: 0 |
| 314 | 5196-5092 | 2796-2868 | 4.48 | 0 | 112 | | Lin.Kms: 28.8000 |
| 315 | 5092-5300 | 2804-2876 | 8.64 | 0 | 216 | | Day.Sq.Klms: 9.1607 |
| 316 | 5092-5300 | 2812-2884 | 8.64 | 0 | 216 | | |
| 317 | 5300-5276 | 2820-2892 | 1.28 | 0 | 32 | | |
| 318 | 5300-5284 | 2828-2892 | 1.28 | 0 | 32 | | |
| | | | | | | | Cumulative Totals |
| | | | | | | | Cum. VP's: 38956 |
| | | | | | | | Cum.Lin.Kms: 1559.040 |
| | | | | | | | Cum.Sq.Klm: 495.900 |
| | | | | | | | Lin.Kms.Remaining: 0.000 |
| | | | | | | | Sq.Kms.Remaining: 0.000 |
| | | | | | | | % Completed: 100.00% |
| | | | | | | | Average Daily Production Sq. Kms: 6.793 |

HOURS

| Working Time - | Down Time - | Standby Time - | | Daily Totals |
|-------------------------|-------------------|-----------------------------|--|----------------------------|
| Recording: 8.7 | Human Error: | Toolbox/Safety Meeting: 0.3 | | Working Time: 11.2 |
| Requested Experimental: | Troubleshooting: | Induction: | | Standby Time: 0.3 |
| Recorder Moveup: | Recorder: | Weather: | | Down Time: 0.0 |
| Waiting on Spread: | Vibes: | Other: | | Non-Charge Time: 0.5 |
| Vibe Detour: 0.3 | WOS: | | | Total Day Hrs: 12.0 |
| Terrain Detour: | Tests / Other: | Other - | | Cumulative Totals |
| Traverse Move: 2.1 | | Mobilisation: | | Working Time(Job): 820.0 |
| Panel Move: | Non-Charge Time - | Intraprospect Move: | | Standby Time(Job): 78.7 |
| Swath Move: 0.1 | Travel Time: 0.5 | Spread Layout/Pickup: | | Down Time(Job): 48.4 |
| Other: | | Crew Demobe/Remobe: | | Non-Charge Time(Job): 42.0 |
| | | | | Total Hrs (Job): 1037.8 |

COMMENTS:

- * 28.80 km recorded from 720 vp's
- * Chris Carty left via Moomba
- * 2 out, 3 in via Moomba

Spread Movement

| Client: GAOG Spinel 3D | | | | Date: Friday, 13 April 2007 | | | |
|----------------------------|-----------|------|-----|-----------------------------|-----------|------|-----|
| Layout | | | | Pickup | | | |
| Line | Station # | Tot | | Line | Station # | Tot | |
| 2876 | 5169 | 5300 | 132 | 2788 | 5270 | 5093 | 178 |
| 2884 | 5169 | 5300 | 132 | 2796 | 5270 | 5093 | 178 |
| 2892 | 5093 | 5300 | 208 | 2804 | 5093 | 5300 | 208 |
| | | | | 2812 | 5093 | 5300 | 208 |
| Total Stations: 472 | | | | Total Stations: 772 | | | |
| Equipment Report | | | | Bad Phones: 4 | | | |
| | | | | Bad Cable: | | | |

Total Crew #'s: 46 Line #'s: 24 Light Vehicle #'s: 21

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
 Survey Name..... Spinel 3D
 Area..... PEL's 91 - 106
 State..... SA

CREW 402
 Party Manager.. Mark Kneipp
 Client Rep..... Bruce Beer
 Weather..... Fine/Cool
 DATE..... Saturday, 14 April 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's | <u>Daily Totals</u> | |
|------------------|-----------|-----------|------|-------|------|-----------------------------------|----------|
| Continue Panel 2 | | | | | | VP's: | 728 |
| 317 | 5268-5092 | 2820-2892 | 7.36 | 0 | 184 | Skips: | 0 |
| 318 | 5268-5092 | 2828-2892 | 7.36 | 0 | 184 | Lin.Kms: | 29.1200 |
| 319 | 5092-5204 | 2836-2892 | 4.8 | 0 | 120 | Day.Sq.Klms: | 9.2625 |
| 320 | 5092-5204 | 2844-2892 | 4.8 | 0 | 120 | <u>Cumulative Totals</u> | |
| 321 | 5092-5204 | 2852-2892 | 4.8 | 0 | 120 | Cum. VP's: | 38956 |
| | | | | | | Cum.Lin.Kms: | 1559.040 |
| | | | | | | Cum.Sq.Klm: | 495.900 |
| | | | | | | Lin.Kms.Remaining: | 0.000 |
| | | | | | | Sq.Kms.Remaining: | 0.000 |
| | | | | | | % Completed: | 100.00% |
| | | | | | | Average Daily Production Sq. Kms: | 6.701 |

HOURS

| Working Time - | Down Time - | Standby Time - | <u>Daily Totals</u> | |
|-------------------------|-------------------|-----------------------------|--------------------------|--------|
| Recording: 8.7 | Human Error: | Toolbox/Safety Meeting: 0.3 | Working Time: | 10.6 |
| Requested Experimental: | Troubleshooting: | Induction: | Standby Time: | 0.3 |
| Recorder Moveup: | Recorder: 0.1 | Weather: | Down Time: | 0.4 |
| Waiting on Spread: | Vibes: 0.3 | Other: | Non-Charge Time: | 0.5 |
| Vibe Detour: | WOS: | | Total Day Hrs: | 11.8 |
| Terrain Detour: | Tests / Other: | Other - | <u>Cumulative Totals</u> | |
| Traverse Move: 1.8 | | Mobilisation: | Working Time(Job): | 820.0 |
| Panel Move: | Non-Charge Time - | Intraprospect Move: | Standby Time(Job): | 78.7 |
| Swath Move: 0.1 | Travel Time: 0.5 | Spread Layout/Pickup: | Down Time(Job): | 48.4 |
| Other: | | Crew Demobe/Remobe: | Non-Charge Time(Job): | 42.0 |
| | | | Total Hrs (Job): | 1037.8 |

COMMENTS:

- * 29.12 km recorded from 728 vp's
- * Roll-off commenced, loading into spread trucks

Spread Movement

| Client: GAOG Spinel 3D | | | Date: Saturday, 14 April 2007 | | |
|------------------------|-----------|-----|-------------------------------|-----------|------------|
| Layout | | | Pickup | | |
| Line | Station # | Tot | Line | Station # | Tot |
| | | | 2820 | 5093 | 5300 |
| | | | 2828 | 5093 | 5300 |
| | | | 2836 | 5093 | 5145 |
| | | | 2844 | 5093 | 5145 |
| Total Stations: | | 0 | Total Stations: | | 522 |
| Equipment Report | | | Bad Phones: | | Bad Cable: |

Total Crew #'s: 46 Line #'s: 24 Light Vehicle #'s: 21

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
 Survey Name. Spinel 3D
 Area..... PEL's 91 - 106
 State..... SA

CREW 402
 Party Manager.. Mark Kneipp
 Client Rep..... Bruce Beer
 Weather..... Fine/Cool
 DATE..... Sunday, 15 April 2007

PRODUCTION

| Swath | Source | Receiver | Kms. | Skips | Vp's |
|------------------|-----------|-----------|------|-------|------|
| Continue Panel 2 | | | | | |
| 319 | 5212-5300 | 2836-2892 | 3.84 | 0 | 96 |
| 320 | 5212-5300 | 2844-2892 | 3.84 | 0 | 96 |
| 321 | 5212-5300 | 2852-2892 | 3.84 | 0 | 96 |

Daily Totals
 VP's: 288
 Skips: 0
 Lin.Kms: 11.5200
 Day.Sq.Klms: 3.6643

Cumulative Totals
 Cum. VP's: 38956
 Cum.Lin.Kms: 1559.040
 Cum.Sq.Klm: 495.900
 Lin.Kms.Remaining: 0.000
 Sq.Kms.Remaining: 0.000
 % Completed: 100.00%
 Average Daily Production Sq. Kms: 6.612

HOURS

| Working Time - | Down Time - | Standby Time - |
|------------------------|--------------------|-----------------------------|
| Recording: 3.6 | Human Error: 0.4 | Toolbox/Safety Meeting: 0.3 |
| Recorder Moveup: 0.5 | Recorder: 0.4 | Weather: 0.4 |
| Waiting on Spread: 0.6 | Vibes: 0.6 | Other: 0.6 |
| Vibe Detour: 0.6 | WOS: 0.6 | Other - |
| Terrain Detour: 0.6 | Tests / Other: 0.6 | Mobilisation: 0.6 |
| Travel Time: 0.6 | Non-Charge Time - | Intraprospect Move: 0.6 |
| Other: 0.6 | Travel Time: 0.6 | Spread Layout/Pickup: 5.6 |
| | | Crew Demobe/Remobe: 5.6 |

Daily Totals
 Working Time: 4.1
 Standby Time: 0.3
 Down Time: 0.4
 Non-Charge Time: 0.6
 Total Day Hrs: 11.0
Cumulative Totals
 Working Time(Job): 820.0
 Standby Time(Job): 78.7
 Down Time(Job): 48.4
 Non-Charge Time(Job): 42.0
 Total Hrs (Job): 1037.8

COMMENTS:

- * Recording completed @ 1104, vibes & recorder return to camp for maintenance, line crew continue to pick up spread
- * 5.6 hrs Spread pickup not included in cumulative total (Set charge for Layout/Pickup)
- * Preps made for Camp move on Tuesday

Spread Movement

| Client: GAOG Spinel 3D | | | Date: Sunday, 15 April 2007 | | | |
|--------------------------|-----------|----------------------|-----------------------------|-----------|------|-----|
| Layout | | | Pickup | | | |
| Line | Station # | Tot | Line | Station # | Tot | |
| | | | 2836 | 5146 | 5300 | 155 |
| | | | 2844 | 5146 | 5300 | 155 |
| | | | 2852 | 5093 | 5300 | 208 |
| | | | 2860 | 5093 | 5300 | 208 |
| | | | 2868 | 5093 | 5196 | 104 |
| | | | 2876 | 5093 | 5196 | 104 |
| Total Stations: 0 | | | Total Stations: 934 | | | |
| Equipment Report | | Bad Phones: 2 | Bad Cable: | | | |

Total Crew #'s: 46 Line #'s: 24 Light Vehicle #'s: 21

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client..... GAOG
 Survey Name. Spinel 3D
 Area..... PEL's 91 - 106
 State..... SA

CREW 402
 Party Manager.. Mark Kneipp
 Client Rep..... Bruce Beer
 Weather..... Fine/Cool
 DATE..... Monday, 16 April 2007

PRODUCTION

Swath Source Receiver Kms. Skips Vp's
 Continue Panel 2
 Recording Complete

Daily Totals
 VP's: 0
 Skips: 0
 Lin.Kms: 0.0000
 Day.Sq.Klms: 0.0000

Cumulative Totals
 Cum. VP's: 38956
 Cum.Lin.Kms: 1559.040
 Cum.Sq.Klm: 495.900
 Lin.Kms.Remaining: 0.000
 Sq.Kms.Remaining: 0.000
 % Completed: 100.00%
 Average Daily Production Sq. Kms: 6.612

HOURS

Working Time -
 Recording:
 Requested Experimental:
 Recorder Moveup:
 Waiting on Spread:
 Vibe Detour:
 Terrain Detour:
 Traverse Move:
 Panel Move:
 Swath Move:
 Other:

Down Time -
 Human Error:
 Troubleshooting:
 Recorder:
 Vibes:
 WOS:
 Tests / Other:
Non-Charge Time -
 Travel Time:

Standby Time -
 Toolbox/Safety Meeting: 0.3
 Induction:
 Weather:
 Other:
Other -
 Mobilisation:
 Intraprospect Move:
 Spread Layout/Pickup: 10.7
 Crew Demobe/Remobe:

Daily Totals
 Working Time: 0.0
 Standby Time: 0.3
 Down Time: 0.0
 Non-Charge Time: 0.0
 Total Day Hrs: 11.0
Cumulative Totals
 Working Time(Job): 820.0
 Standby Time(Job): 78.7
 Down Time(Job): 48.4
 Non-Charge Time(Job): 42.0
 Total Hrs (Job): 1037.8

COMMENTS:

- * Remainder of spread picked up, depegging in the afternoon.
- * Vehicles washed & cleaned, final prep. for Camp Move tomorrow.
- * Bruce Beer demobed early in the morning.
- * Still about 5 days depegging to complete. Will continue to depeg over next week.
- * 1st vibe floated to SKM 3D in evening.

Spread Movement

Client: GAOG Spinel 3D Date: Monday, 16 April 2007

| Layout | | | Pickup | | | |
|--------|-----------|-----|--------|-----------|------|-----|
| Line | Station # | Tot | Line | Station # | Tot | |
| | | | 2868 | 5197 | 5300 | 104 |
| | | | 2876 | 5197 | 5300 | 104 |
| | | | 2884 | 5093 | 5300 | 208 |
| | | | 2892 | 5093 | 5300 | 208 |
| | | | 2868 | 5093 | 5300 | 208 |
| | | | 2876 | 5093 | 5300 | 208 |

Total Stations: 0 Total Stations: 1040
 Equipment Report Bad Phones: Bad Cable:

Total Crew #'s: 46 Line #'s: 24 Light Vehicle #'s: 21

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____

APPENDIX I

RECORDING STATISTICS

RECORDING STATISTICS

| Date | Mobilisation | Camp packup / Setup | Laying Out, QC & Pickup | Travel Time | Recording Time | Experimentals | Panel Move | WOS | Detours & Terrain | Recorder Move | Swath Move | Traverse Move | Vibes | Recorder | Other | Troubleshoot | Safety & Other Charge | Weather & Other Time | Weather & Other Time | Total Stand-by Rate | Total Downtime | Total Working Time | Total Operational Hours | Total Km's | Total Sq Km |
|-----------|--------------|---------------------|-------------------------|----------------|----------------|---------------|------------|------------|-------------------|---------------|------------|---------------|----------------|----------------|----------------|----------------|-----------------------|----------------------|----------------------|---------------------|----------------|--------------------|-------------------------|------------|-------------|
| | Fixed Charge | Fixed Charge | Fixed Charge | Non-Chargeable | Chargeable | Chargeable | Chargeable | Chargeable | Chargeable | Chargeable | Chargeable | Chargeable | Non-Chargeable | Non-Chargeable | Non-Chargeable | Non-Chargeable | Standby | Standby | Non-Chargeable | Standby | Non-Chargeable | Chargeable | | | |
| 23-Jan-07 | | | | | | | | | | | | | | | | | 0.30 | 4.70 | 5.00 | 5.00 | - | - | 10.00 | | |
| 24-Jan-07 | | | | | | | | | | | | | | | | | 0.30 | 4.70 | 5.00 | 5.00 | - | - | 10.00 | | |
| 25-Jan-07 | | | | | | | | | | | | | | | | | 0.30 | 4.70 | 5.00 | 5.00 | - | - | 10.00 | | |
| 26-Jan-07 | | | | | | | | | | | | | | | | | 0.30 | 4.70 | 5.00 | 5.00 | - | - | 10.00 | | |
| 27-Jan-07 | 15.30 | | | | | | | | | | | | | | | | 0.30 | | | 0.30 | - | - | 15.60 | | |
| 28-Jan-07 | | 3.20 | 7.00 | 1.00 | | | | | | | | | | | | | 0.30 | 0.70 | | 1.00 | - | - | 12.20 | | |
| 29-Jan-07 | | | 7.10 | 0.50 | 3.90 | 0.30 | | | | | 0.20 | 0.10 | | | | | 0.30 | | | 0.30 | 0.10 | 4.40 | 12.40 | 0.6400 | 0.2036 |
| 30-Jan-07 | | | | 0.40 | 9.50 | | | | 0.40 | | 1.10 | | | 0.10 | 0.10 | 0.10 | 0.30 | | | 0.30 | 0.30 | 11.00 | 12.00 | 20.1600 | 6.4125 |
| 31-Jan-07 | | | | 0.30 | 8.10 | | | | 0.60 | 0.40 | 0.40 | 2.00 | 0.20 | | 0.20 | 0.30 | 0.30 | | | 0.30 | 0.70 | 11.50 | 12.80 | 19.5200 | 6.2089 |
| 16-Feb-07 | | | | 0.30 | 5.00 | | 0.70 | | 1.00 | 0.40 | 0.20 | 3.00 | 0.20 | 1.00 | 0.60 | 0.20 | 0.30 | | | 0.30 | 2.00 | 10.30 | 12.90 | 16.0000 | 5.0893 |
| 17-Feb-07 | | | | 0.20 | 5.80 | | | | 0.60 | | 0.10 | 3.10 | 0.40 | | 1.50 | | 0.30 | | | 0.30 | 1.90 | 9.60 | 12.00 | 16.3200 | 5.1911 |
| 18-Feb-07 | | | | 0.20 | 6.70 | | | | 1.40 | | 0.10 | 2.80 | 0.20 | 0.10 | | | 0.50 | 0.30 | | 0.30 | 0.80 | 11.00 | 12.30 | 16.9600 | 5.3946 |
| 19-Feb-07 | | | | 0.40 | 8.60 | | | | 1.20 | | 0.20 | 1.50 | | 0.30 | | | 0.30 | 0.30 | | 0.30 | 0.60 | 11.50 | 12.80 | 17.6000 | 5.5982 |
| 20-Feb-07 | | | | 0.40 | 7.50 | | | | 1.40 | 0.50 | | 2.20 | 0.20 | | | | 0.40 | 0.30 | | 0.30 | 0.60 | 11.60 | 12.90 | 14.7200 | 4.6821 |
| 21-Feb-07 | | | | 0.50 | 7.20 | | | | 1.00 | | 0.10 | 2.40 | | 0.10 | | | 0.20 | 0.30 | | 0.30 | 0.30 | 10.70 | 11.80 | 16.0000 | 5.0893 |
| 22-Feb-07 | | | | 0.50 | 7.70 | | | | 1.30 | | 0.10 | 2.30 | 0.60 | 0.10 | | | 0.30 | | | 0.30 | 0.70 | 11.40 | 12.90 | 16.3200 | 5.1911 |
| 23-Feb-07 | | | | 0.50 | 8.90 | | | | 0.60 | | 1.70 | 0.20 | 0.20 | | | | 0.30 | 0.30 | | 0.30 | 0.70 | 11.20 | 12.70 | 19.2000 | 6.1071 |
| 24-Feb-07 | | | | 0.60 | 8.00 | | | | 0.40 | 0.50 | 0.10 | 1.90 | 0.10 | 0.40 | | | 0.30 | 0.30 | | 0.30 | 0.90 | 10.90 | 12.60 | 15.3600 | 4.8857 |
| 25-Feb-07 | | | | 0.70 | 8.00 | | | | 0.20 | | 0.40 | 1.50 | 0.10 | 0.10 | | | 0.60 | 0.30 | 0.10 | 0.40 | 0.80 | 10.10 | 12.00 | 19.2800 | 6.1326 |
| 26-Feb-07 | | | | 0.70 | 7.70 | | | | 0.70 | | 0.30 | 1.90 | 0.10 | 0.60 | | | 0.10 | 0.30 | | 0.30 | 1.00 | 10.60 | 12.40 | 24.2000 | 7.6975 |
| 27-Feb-07 | | | | 0.70 | 7.80 | | | | 0.50 | | 0.10 | 2.70 | 0.10 | 0.20 | | | 0.10 | 0.30 | | 0.30 | 0.40 | 11.10 | 12.50 | 24.3600 | 7.784 |
| 28-Feb-07 | | | | 0.70 | 5.60 | | | | 1.50 | 0.60 | 0.20 | 2.90 | 0.10 | 0.20 | | | 0.50 | 0.30 | | 0.30 | 0.80 | 10.80 | 12.60 | 19.5200 | 6.2089 |
| 01-Mar-07 | | | | 1.00 | 6.80 | | | | 0.80 | | 0.20 | 3.30 | 0.20 | 0.20 | | | 0.10 | 0.30 | | 0.30 | 0.50 | 11.10 | 12.90 | 21.7600 | 6.9214 |
| 02-Mar-07 | | | | 0.80 | 6.30 | | | | 1.50 | | 0.30 | 2.60 | | | | | 0.10 | 0.30 | | 0.30 | 0.10 | 10.70 | 11.90 | 23.0400 | 7.3286 |
| 03-Mar-07 | | | | 0.70 | 6.00 | | | | 0.70 | 0.60 | 0.40 | 2.00 | | 0.40 | | | 0.30 | 0.30 | | 0.30 | 0.70 | 9.70 | 11.40 | 21.1200 | 6.7179 |
| 04-Mar-07 | | | | 0.80 | 6.90 | | | | 0.70 | | 1.90 | 0.20 | 0.20 | | 0.80 | | 1.00 | 0.30 | | 0.30 | 2.20 | 9.50 | 12.80 | 22.4000 | 7.125 |
| 05-Mar-07 | | | | 0.80 | 7.40 | | | | 0.20 | | 0.20 | 1.80 | | | | | 0.10 | 0.30 | 1.80 | 2.10 | 0.10 | 9.60 | 12.60 | 24.3200 | 7.7357 |
| 06-Mar-07 | | | | 0.50 | 6.00 | | 4.00 | | 0.50 | | 0.20 | 1.20 | | | | | 0.20 | 0.30 | | 0.30 | - | 11.90 | 12.70 | 13.1200 | 4.1732 |
| 07-Mar-07 | | | | 0.30 | 9.10 | | | | 0.30 | | 0.10 | 1.00 | 0.20 | 0.20 | | | 1.00 | 0.30 | | 0.30 | 1.40 | 10.50 | 12.50 | 14.7200 | 4.6821 |
| 08-Mar-07 | | | | 0.20 | 9.10 | | | | 0.20 | | 0.30 | 1.80 | 0.20 | 0.20 | | | 0.30 | 0.30 | | 0.30 | 0.40 | 11.40 | 12.30 | 19.8400 | 6.3107 |
| 09-Mar-07 | | | | 0.30 | 9.10 | | | | 0.50 | | 0.30 | 1.40 | | 0.50 | | | 0.30 | 0.30 | | 0.30 | 0.60 | 11.30 | 12.50 | 16.3200 | 5.1911 |
| 10-Mar-07 | | | | 0.30 | 8.90 | | | | 1.10 | | 0.10 | 1.20 | | | | | 0.10 | 0.30 | | 0.30 | 0.10 | 11.20 | 11.90 | 28.1600 | 8.9571 |
| 11-Mar-07 | | | | 0.70 | 7.50 | | 2.80 | | 0.50 | | 0.10 | 0.40 | | 0.10 | | | 0.20 | 0.30 | | 0.30 | 0.30 | 11.30 | 12.60 | 4.8000 | 1.5268 |
| 12-Mar-07 | | | | 0.70 | 8.40 | | | | 0.70 | 0.50 | 0.30 | 1.40 | | | | | 0.30 | 0.30 | | 0.30 | 0.30 | 11.30 | 12.60 | 28.2400 | 8.9826 |
| 13-Mar-07 | | | | 0.50 | 9.40 | | 0.10 | | 0.40 | | 1.80 | | | | 0.20 | | 0.30 | 0.30 | | 0.30 | 0.50 | 11.70 | 13.00 | 32.2400 | 10.2549 |
| 14-Mar-07 | | | | 0.50 | 8.10 | | | | 0.10 | 0.20 | 0.10 | 1.70 | | 0.70 | | | 0.40 | 0.30 | | 0.30 | 1.10 | 10.60 | 12.50 | 26.8800 | 8.55 |
| 15-Mar-07 | | | | 0.30 | 7.90 | | | | 0.30 | | 0.20 | 2.80 | | 0.10 | | | 0.30 | 0.30 | | 0.30 | 0.40 | 11.20 | 12.30 | 27.8400 | 8.8554 |
| 16-Mar-07 | | | | 0.30 | 7.10 | | | | 0.70 | | 0.10 | 1.90 | | | | | 0.40 | 0.30 | 1.20 | 1.50 | 0.40 | 9.80 | 12.00 | 19.5200 | 6.2089 |
| 17-Mar-07 | | | | 0.40 | 6.80 | | | | 0.70 | 0.50 | | 2.30 | | | 0.70 | | 0.60 | 0.30 | | 0.30 | 1.30 | 10.30 | 12.30 | 17.2800 | 5.4964 |
| 18-Mar-07 | | | | 0.50 | 7.30 | | | | 1.10 | | 0.10 | 2.00 | | 0.10 | | | 0.80 | 0.30 | | 0.30 | 0.90 | 10.50 | 12.20 | 17.2800 | 5.4964 |
| 19-Mar-07 | | | | 0.50 | 6.80 | | | | 2.00 | | 0.10 | 2.40 | 0.10 | 0.10 | | | | 0.30 | | 0.30 | 0.20 | 11.30 | 12.30 | 18.2400 | 5.8018 |
| 20-Mar-07 | | | | 0.50 | 8.40 | | | | 0.20 | | 0.20 | 2.20 | 0.30 | | | | | 0.30 | | 0.30 | 0.30 | 11.00 | 12.10 | 21.1200 | 6.7179 |
| 21-Mar-07 | | | | 0.70 | 7.70 | | | | 0.80 | 0.70 | 0.10 | 2.10 | 0.30 | | | | 0.10 | 0.30 | | 0.30 | 0.40 | 11.40 | 12.80 | 19.2000 | 6.1071 |
| 22-Mar-07 | | | | 0.70 | 6.90 | | | | 0.90 | | 0.40 | 1.60 | | 1.30 | 0.30 | | | 0.30 | | 0.30 | 1.60 | 9.80 | 12.40 | 19.2000 | 6.1071 |
| 23-Mar-07 | | | | 0.30 | 7.80 | | | | 1.20 | | 0.10 | 2.10 | | 0.10 | 0.10 | | 0.10 | 0.30 | | 0.30 | 0.30 | 11.20 | 12.10 | 25.6000 | 8.1429 |
| 24-Mar-07 | | | | 0.40 | 7.70 | | | | 1.20 | 0.60 | 0.20 | 1.80 | | 0.30 | | | 0.50 | 0.30 | | 0.30 | 0.80 | 11.50 | 13.00 | 24.3200 | 7.7357 |
| 25-Mar-07 | | | | 0.80 | 8.40 | | | | 0.60 | | 0.20 | 2.00 | | 0.50 | | | 0.20 | 0.30 | | 0.30 | 0.70 | 11.00 | 12.80 | 26.6400 | 8.4737 |
| 26-Mar-07 | | | | 0.70 | 8.20 | | | | 0.60 | | 0.20 | 2.10 | | 0.20 | | | 0.10 | 0.30 | | 0.30 | 0.30 | 11.10 | 12.40 | 27.1200 | 8.6263 |
| 27-Mar-07 | | | | 0.70 | 7.60 | | | | 0.60 | 0.50 | 0.20 | 2.20 | | 0.20 | | | 0.40 | 0.30 | | 0.30 | 0.60 | 11.10 | 12.70 | 23.0400 | 7.3286 |
| 28-Mar-07 | | | | 0.90 | 7.60 | | | | 0.90 | | 0.10 | 2.10 | | | | | 0.50 | 0.30 | | 0.30 | 0.50 | 10.70 | 12.40 | 24.9600 | 7.9393 |
| 29-Mar-07 | | | | 1.30 | 0.50 | | | | 0.10 | | 0.20 | | | | | | 0.30 | | 9.60 | 9.90 | - | 0.80 | 12.00 | 0.9600 | 0.3054 |
| 30-Mar-07 | | | | 0.70 | 6.70 | | | | 1.20 | | 0.30 | 1.70 | 0.10 | 0.20 | 1.20 | | 0.20 | 0.30 | | 0.30 | 1.70 | 9.90 | 12.60 | 22.7200 | 7.2268 |
| 31-Mar-07 | | | | 0.90 | 7.30 | | | | 0.30 | 0.70 | 0.20 | 2.50 | 0.10 | | | | 0.40 | 0.30 | | 0.30 | 1.10 | 11.00 | 12.70 | 22.7200 | 7.2268 |
| 01-Apr-07 | | | | 1.00 | 7.20 | | | | 0.80 | | 1.70 | | | 0.50 | 0.40 | | 0.50 | 0.30 | | 0.30 | 1.40 | 9.70 | 12.40 | 22.7200 | 7.2268 |
| 02-Apr-07 | | | | 0.80 | 8.30 | | | | 0.70 | | 0.10 | 1.60 | | 0.10 | | | 0.20 | 0.30 | | 0.30 | 1.00 | 10.70 | 12.10 | 26.2400 | 8.3464 |
| 03-Apr-07 | | | | 0.70 | 8.30 | | | | 0.20 | 0.60 | 0.20 | 1.90 | | 0.10 | 0.20 | | 0.10 | 0.30 | | 0.30 | 0.40 | 11.20 | 12.60 | 24.9600 | 7.9393 |
| 04-Apr-07 | | | | 0.70 | 7.70 | | | | 0.50 | | 0.20 | 2.20 | | 0.50 | | | 0.20 | 0.30 | | 0.30 | 0.70 | 10.60 | 12.30 | 25.6000 | 8.1429 |
| 05-Apr-07 | | | | 0.50 | 8.00 | | | | 1.00 | | 0.20 | 2.00 | | | | | 0.30 | 0.30 | | 0.30 | 0.30 | 11.20 | 12.30 | 26.2400 | 8.3464 |
| 06-Apr-07 | | | | 0.50 | 7.80 | | | | 0.50 | 0.80 | 0.20 | 2.20 | | 0.10 | 0.20 | | 0.20 | 0.30 | | 0.30 | 0.50 | 11.50 | 12.80 | 25.9200 | 8.2446 |
| 07-Apr-07 | | | | 0.30 | 8.60 | | | | 0.20 | | 0.10 | 2.30 | | 0.50 | | | 0.10 | 0.30 | | 0.30 | 0.60 | 11.00 | 12.20 | 25.9200 | 8.2446 |
| 08-Apr-07 | | | | 0.30 | 7.50 | | | | 0.20 | | 0.60 | 2.50 | | | | | 0.50 | 0.30 | | 0.30 | 0.50 | 10.80 | 11.90 | 24.6400 | 7.8375 |
| 09-Apr-07 | | | | 0.30 | 8.80 | | | | 0.40 | | 0.10 | 1.80 | | | | | 0.10 | 0.30 | | 0.30 | 0.10 | 11.10 | 11.80 | 28.8000 | 9.1607 |
| 10-Apr-07 | | | | 0.40 | 8.50 | | | | 0.40 | 0 | | | | | | | | | | | | | | | |



Dynamic
Satellite
Surveys PTY LTD

07003

*Final Operations Report
on the
Spinel 3D Seismic Survey
for
Great Artesian Oil and Gas
and
Terrex Seismic Pty Ltd*

December 2006 - April 2007



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**Dynamic Satellite Surveys Pty Ltd is a Quality Assured Company,
externally certified to AS/NZS ISO9001:2000 standards by
SAI Global Pty Ltd - Lic# QEC10046.**

This project was undertaken for Terrex Seismic Pty Ltd. The sole purpose of the job was to install and survey 3D seismic lines in the Cooper Basin region as per instructions received from the client, Great Artesian Oil and Gas Limited. The use of the data for any other purpose is not authorised.

All data contained in this report and on the attached CD is deemed to be final and overrides any previous data received from DSS, unless otherwise stated.

All maps present in this report are a representation only of the digital data contained on the final CD. Underlying topographic maps have been sourced from the NatMap seamless Australia Map and DSS have not necessarily surveyed features shown on these underlying maps.

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1

INTRODUCTION

The following report covers the **Spinel 3D Seismic Survey**, performed by **Dynamic Satellite Surveys Pty Ltd** (DSS) whilst contracted to **Terrex Seismic Pty Ltd**. The client for the survey was **Great Artesian Oil and Gas Limited (GAOG)**.

The survey was located approximately 60km north-west of Moomba, South Australia.

The survey consisted of 62 source lines totalling **1555.92km**, surveyed at 40m station intervals and 137 receiver lines totalling **1559.88km**, surveyed at 40m station intervals. The area of the survey was approximately 515 km².

The survey commenced on December 14th, 2006 with a camp move from the Scutus 2D and an evening induction with Bruce Beer. Production commenced on December 15th.

The seismic survey operations were completed on March 27th, 2007.



2

INSTRUMENTATION AND PERSONNEL

2.1 Personnel and Logistics

DSS personnel involved in the survey were as follows (in date order):

| Person | Qualifications | Task |
|----------------|--|--|
| Ben Allsopp | Bachelor of Surveying, Curtin University of Technology, WA | Line Pointing, Surveying, Data Processing, HSE Officer, Report |
| Trenton Moller | Bachelor of Surveying - University of Newcastle | Surveying |
| John Dilger | Hydrographic Surveyor - Royal Australian Navy | Surveying |
| Denis Williams | Bachelor of Applied Science (Surveying) / Bachelor of Information Technology - QUT | Surveying, Training |
| Rob Meijers | Bachelor of Geomatics - University of Tasmania | Surveying |
| Brendan Irwin | Bachelor of Engineering (Surveying and Spatial Systems) - UNSW | Surveying |

| | | |
|-----------------|---|--|
| Steve Hewitson | Bachelor of Engineering (Spatial Information Systems) - UNSW PhD in Surveying and Spatial Information Systems - UNSW | Surveying |
| Hamish McKenzie | Bachelor of Surveying - University of Otago | Surveying |
| Dave Nielsen | Associate Diploma - University of Southern Qld | Line Pointing, Surveying, Data Processing, HSE Officer |
| Dean Hausmann | Bachelor of Geodetic Engineering, QLD University of Technology | Line Pointing, Surveying, Data Processing, HSE Officer, Report |

Personnel and equipment logistics were supported by the DSS Yeppoon office. Survey operations were based at the Terrex Contracting (TC) fly camp located at three (3) separate locations during the survey.

2.2 *Equipment*

Equipment provided by DSS and used on this project:

| | Description | Qty |
|----------------------|--|------------|
| Vehicles | Toyota Landcruiser Trayback - DSS | 4 |
| | | |
| GPS receivers | NovAtel RT2 OEM-G2c/w VHF Telemetry | 4 |
| | NovAtel RT2 OEM-G3 c/w VHF Telemetry | 1 |
| | | |
| Computers | Dell Inspiron 5150 | 2 |
| | Fujitsu Tablets | 4 |
| | Ipaq Field Computers | 2 |
| | | |
| Software | GravNav / GravNet GPS post-processing - Waypoint Consultancy | Ver 7.60 |
| | Nav05 field software - DSS | Ver 3.82 |
| | MIB for Windows - DSS | Ver 6.31 |
| | TransIt - DSS | Ver 5.3 |
| | MapInfo Professional | Ver 8.5 |
| | | |
| Printers | Canon i6500 | 1 |
| | | |
| REM | Rapid Elevation Meter | 1 |
| | | |
| Miscellaneous | Kodak Digital camera | 1 |
| | Accommodation and office caravans | 2 |
| | Dual axle trailer | 1 |
| | Necessary standard surveying equipment | |
| | Sundry office and transport equipment | |
| | Field and Office Consumables | |



3

SURVEY REFERENCE SYSTEMS

3.1 Geodetic Datum

Raw GPS data was acquired on the WGS84 datum, described by the following parameters:

| | |
|--------------------------------|------------------------------------|
| <i>Datum:</i> | WGS84 (World Geodetic System 1984) |
| <i>Ellipsoid:</i> | WGS84 |
| <i>Semi-Major Axis Length:</i> | 6 378 137.0 |
| <i>Inverse Flattening:</i> | 298.257223563 |
| <i>The Unit of Measure:</i> | International Metre |

The datum for this project was the Geocentric Datum of Australia 1994 (GDA94), which is based on the Geodetic Reference System 1980 (GRS80) Ellipsoid defined by:

| | |
|--------------------------------|--|
| <i>Datum:</i> | GDA94 (Geocentric Datum of Australia 1994) |
| <i>Ellipsoid:</i> | GRS80 |
| <i>Reference Frame:</i> | ITRF92 (International Terrestrial Reference Frame) |
| <i>Semi-Major Axis Length:</i> | 6 378 137.0 |
| <i>Inverse Flattening:</i> | 298.257222101 |
| <i>The Unit of Measure:</i> | International Metre |

3.2 *Map Projection*

Final rectangular coordinates were based on the Map Grid of Australia 1994 (MGA 94). Parameters for this projection are:

| | |
|-------------------------------|---|
| <i>Projection:</i> | Universal Transverse Mercator (MGA Zone 54) |
| <i>Latitude of Origin:</i> | 0° |
| <i>Central Meridian (CM):</i> | 141° E |
| <i>Scale Factor at CM:</i> | 0.9996 |
| <i>False Easting:</i> | 500 000 |
| <i>False Northing:</i> | 10 000 000 |
| <i>The Unit of Measure:</i> | International Metre |

3.3 *Height Datum*

All elevations obtained relative to WGS84 have been reduced to the Australian Height Datum (AHD) using the AUSGEOID98 Geoid - Spheroid separation model to determine the geoid-ellipsoid separation (N) for the particular area.

GPS observations are made on the WGS84 datum. The height associated with this datum is an ellipsoidal height (h). The Australian Height Datum (AHD), the height datum associated with MGA 94, is an orthometric height, which is measured as the height above mean sea level, or the geoid (H).

The function that defines the relationship between the ellipsoid and orthometric heights is:

$$H = h - N$$

Or

$$\text{AHD} = \text{WGS84} - (\text{Geoid / Ellipsoid Separation})$$

The value for the geoid/spheroid separation is interpolated from a national model called AusGeoid98.

AUSGEOID98 is the third in a series of national geoid models produced for Australia by the Australian Surveying and Land Information Group (AUSLIG). The geoid-ellipsoid data is prepared for the Australian region from:

- EGM96 Global Geopotential Model;
- 1996 Australian Gravity DataBase, from the Australian Geological Survey Organisation (AGSO);
- AUSLIG / AGSO GEODATA nine-second digital elevation model;
- Satellite altimeter - derived free air gravity anomalies offshore;
- Theories, techniques and software developed by Associate Professor Will Featherstone, Curtin University of Technology¹.

AUSGEOID98 N values were interpolated using the GrafNet Version 7.60 software, distributed by Waypoint Consulting Inc.

¹ Johnston, G.M., Featherstone, W.E. (1998) AUSGEOID98: A New Gravimetric Model for Australia



4

SURVEY CONTROL

The datum point for the survey was an old Permanent Mark (PM) that had been surveyed as part of the control network for the Paranta 3D seismic survey (DSS Job #05051).

The point has the following coordinates in MGA UTM Zone 54:

| Station | Easting (MGA) | Northing (MGA) | Elevation (AHD) |
|----------------|----------------------|-----------------------|------------------------|
| GA02 | 379852.419 | 6915876.280 | 44.248 |

Other original PMs encountered during the survey were recorded to provide a check on the datum within the survey area.

These all gave results comparable to other surveys done in the Cooper Basin and confirmed the integrity of the base location and files used by DSS. See **Appendix A - Survey Control**.



5

MONUMENTATION

All stations on the seismic lines were marked with a regular pattern of wooden pegs and pin flags.

Receiver Lines

Numbered, wooden, blue pegs were placed at every fifth station along each receiver line with intermediate stations denoted with blue pin flags. Where the station landed near a road, fence, or track, a numbered, wooden, blue peg was placed.

Source Lines

Numbered, wooden, pink pegs were placed at every second station (evens) along each source line with intermediate stations (odds) denoted with pink pin flags. Where the station landed near a road, fence, track or hand carry area, a numbered, wooden, pink peg was placed.

Access pegs denoting source line number and direction were placed where a source line jumped from one location to another. This was, more often than not, where the source line intersected with a receiver line.

The acceptable location for all surveyed points was +/- 1m inline. There was no cross line tolerance, although, the maximum distance between two receiver stations was set to 50m (cables are only 55m).

Source points were pegged, as a first preference, as close as practical to the design coordinate. Where pegs could not be placed at this location due to terrain, vegetation, water

or heritage sites, they were then placed as near as possible to the design location.

There is an explanation of source point locations in Chapter 9, page 18.

Ten (10) EMP Markers were placed throughout the prospect. These can be seen in **Appendix G: Environmental Monitoring Points.**



6

METHOD OF SURVEY

6.1 *Line Ranging*

All lines were cleared by Terrex Contracting contractors. The equipment supplied to perform the clearing operations was four (4) dozers and two (2) graders.

All the operators had experience in preparation of seismic lines with regards to environmental issues and GPS guidance techniques. The standard procedures for preparation of seismic lines in the Cooper Basin were followed by the operators.

DSS GPS receiver units (Garmin 172C) were mounted on the dozers to supply real time positions when cutting the seismic lines. The set-out parameters of the lines were loaded onto the computers and these were used with the GPS units to prepare the lines.

The software used allowed each dozer operator to navigate to each source and receiver point and to stay on-line between these points. This allowed line clearing to ensure each source point was cleared for vibe access and meant few, if any, points were located away from the cleared line.

Generally the operators had few problems using the system and spent little time getting used to the GPS. The operators cleared their lines with the position of the vibes at each point in mind.

The lines were cut in an environmentally sensitive manner and were generally easily navigated. Due to the nature of the terrain, much blade work was required to navigate sand dunes.

Prior to startup, all field personnel were provided with maps of the area and more detailed plots at an enlarged scale for problem areas. The main issues were cultural heritage sites and pipelines.

Heritage sites that had been found and recorded by the Work Area Clearance team prior to the commencement of line clearing were plotted on the field map and the GPS systems. Each person on the field team carried a copy of the map and the spreadsheet. The coordinates of each waypoint, necessary to avoid a site, were included in the navigation file on each dozer and no site was disturbed or destroyed.

All lines that crossed a pipeline were not vibed within 50m from either side.

Where roads and tracks were encountered, dog legs were installed to minimise the visual impact of the seismic lines.

Real time mapping of roads, fences, pipelines and other areas of concern was performed by the DSS line pointer. The system used incorporates "GeoTracker" and MapInfo running concurrently on the Fujitsu field tablets, giving a real time display of the prospect. All maps of these features were produced for all seismic field personnel.

6.2 *Surveying and Chaining*

There are three modes of use in GPS surveying: static, kinematic and real-time kinematic GPS. All base stations were surveyed using static methods whilst real-time kinematic GPS was used to set-out and survey the seismic lines.

The seismic lines were surveyed using DSS' RT2 real-time kinematic surveying technique. RT2 enables both position and elevation coordinates to be acquired in real-time and on the appropriate datum.

The survey method utilised phase data received from US Navy NAVSTAR Satellites to provide three-dimensional positioning. One receiver was set up as a base station at the point of known coordinates while other receivers were used as remote rovers.

To obtain real-time capabilities, VHF telemetry is required between the base and the remote GPS receiver. Any number of remote receivers can be used at any given time with a single base station.

NovAtel Millennium dual frequency real-time kinematic methods can achieve accuracies of better than +/-0.02m in position and elevation, depending on base line length. The expected precision for locating pegged positions is generally better than 0.1 metres.

Initialisation of the RT2 rover GPS can take as little as 2-3 minutes, although this is greatly dependant on satellite geometry and availability and base line length.

DSS' latest software package, NAV05 is a complete field seismic surveying program. This program was run on Fujitsu tablets (field computers). It enables each field surveyor a completed picture of the prospect in relation to the grid setout, previous days recordings, height profiling, quality control of data, and various other information required for field recordings.

6.3 *GPS Processing and Quality Control*

When using static GPS and RT2 real-time kinematic, all data is recorded internally in GRiD palmtop data loggers or Fujitsu tablets and downloaded to the office computer each evening.

For RT2 real-time kinematic surveying, the quality of the satellite data is monitored by examination of the various on-screen quality control statistics produced by the field software. These checks on data integrity are in the form of standard deviation (or sigma) values for Easting, Northing and Height and are generally acceptable at better than 0.1m for height and 0.05m for position.

Line data was checked in the office using DSS' "MIB" seismic processing software. Any position which fell outside the required tolerances was flagged for further investigation and re-recorded as necessary.

Numerous checks on pre-recorded marks were observed during each day's survey. These observations confirm the integrity of the GPS base receiver on that day and the previously recorded points. A file of each day's checks was kept with the processed data.

The new line and station coordinates are then checked by determining point to point direction and distance. Any outliers or erroneous points are flagged for checking. This usually requires re-observation by field readings. Any missing points are also noticeable in the check file set. These can be recorded at a later time, but are usually done the next day.

The recorded point data was also plotted in MapInfo over the design program. This gives a graphical representation of all field recordings (post-plot vs pre-plot) as an added means of quality control.

Profile plots of each separate source and receiver line was examined to identify any height anomalies. Again, any outlier can be investigated in the field and re-recorded if necessary.

Maps for the line crew were made using MapInfo. These showed the location of the lines, tracks, pipelines, wells, and any other helpful information. Separate maps were generated for the vibrators to show all relevant offsets to aid their swath pattern recording.



7

DATA PRESENTATION

All line files were checked and finalised before the survey crew demobilised from the prospect.

All final data is in Map Grid of Australia (MGA94) grid coordinate format. Final coordinate files supplied to Terrex were in SEGP1, and UKOOA format. All elevations were on the Australian Height Datum (AHD71).

Files and directories produced were:

| | |
|-------------------------------------|---------------------------------------|
| Sxxxx.UKA | Source line data in UKOOA format. |
| Rxxxx.UKA | Receiver line data in UKOOA format. |
| Sxxxx.SEG | Source line data in SEG P1 format. |
| Rxxxx.SEG | Receiver line data in SEG P1 format. |
| Receiver Station Summary.txt | Listing of all receiver stations |
| Source Station Summary.txt | Listing of all source stations |
| MapInfo Directory | All related mapping tables. |
| ERF and EMP Directories | All Environmental reference stations. |

All files are backed up on digital disks in the Yeppoon office for future reference.

No hard copy final data was provided.



8

SAFETY

DSS personnel are aware of safety conditions concerning exploration seismic surveys. The DSS **“Quality Policy Statement”** and **“Health, Safety and Environment Policy”** were adhered to at all times.

Each vehicle was fitted with a HF and UHF radio, shovel, fire extinguisher, first-aid kit, vehicle recovery equipment, and weekly vehicle maintenance check lists were completed.

UHF radio contact was always available between surveyors and the line clearing contractors. Regular contact between survey and line preparation was normally made throughout each day and helped ensure trouble-free operations.

Daily toolbox meetings were held by DSS and TC each evening. These meetings provided a venue for safety issues noticed during the day to be brought to everyone’s attention.

Weekly safety meetings were conducted with all personnel at fly camp. These meetings were documented with each individual expressing any safety concerns which they may have noted throughout the week.

A safety and project induction was completed by present field crew on December 14th, 2006.



9

OPERATIONAL ASPECTS

The complete Spinel 3D seismic program consisted of 3115.80 linear kilometres (1559.88km Receiver and 1555.92km Source).

Survey operations began on December 15th, 2006 and completed on March 26th, 2007. DSS and TC were on standby for a total of approximately 14 days. It took a total of 86 work days to complete the 3115.80km program, giving an average of 36.23km/day of pegging (including standby days).

Survey and dozing operations proceeded smoothly with no down time for instrument breakages or base station shutdowns. Survey completed its section of operations on the same day as dozing.

Unfortunately, dozing production fell behind due to mechanical failure. This resulted in a few standby days for surveying. Also, for much of the project, the grading of lines was done behind the pegging of the lines. This operation frustrates all parties as the surveyors have to place stations about one metre off the dozed track so when the dozer knocks down the rill, the stations remain in tact. It is also inevitable that some stations will be knocked over by the graders.

Heritage sites that had been found and recorded by the Work Area Clearance team prior to the commencement of the line clearing were plotted on the field maps. Each person on the field team carried a copy of the map and the spreadsheet. The coordinates of each waypoint necessary to avoid a site were included in the navigation file on each dozer and no site was disturbed or destroyed.

Source points were not necessarily located in their designed bins. It was decided by the Bird Dog that source points were to be placed in the dune corridors, between two neighbouring receiver lines. This reduced the line cutting required on source lines as, for the next segment to be cut, all persons could navigate down the receiver line to the next source line.

There were some 'impossible offsets' placed that were located around pipelines. These are defined by a comment in the line files, stating where the stations are located from the design location.

Receiver points were located as close as possible to design, with a tolerance of 75m (finally decided upon mid-way through the project). The only requirement was that station to station distances between two neighbouring receiver stations was a maximum of 55m (for cable length restrictions).

Real time mapping of roads, fences, pipelines and other areas of concern was performed by the DSS line pointer. The system used incorporates the software Geotracker and MapInfo running concurrently on the Fujitsu field tablet, giving a real time display of the prospect. All mapping of these features was produced for all seismic personnel each day.



10

CONCLUSION AND RECOMMENDATIONS

This job was undertaken efficiently and professionally. All parties worked together effectively and the depth of experience in DSS and TC was a major contributing factor to the job as a whole.

The average target production rate for DSS was 40 km per day; the actual average of 36.23 km/day (including standby days) is very close to this original estimate.

DSS and TC continue to be conscientious in their operations and always welcome feedback from all parties concerned in seismic operations.

Dynamic Satellite Surveys Pty Ltd

Denis Williams

Senior Surveyor



11

APPENDICES

Survey Control

Survey Control

All coordinates are MGA Zone 54
Heights are AHD71, using AusGeoid98 N Values

Survey Base Stations:

| Station | Easting | Northing | AHD | Comment |
|-------------|------------------|-------------------|--------------|--------------------------------|
| GA02 | 379852.33 | 6915876.30 | 44.23 | DATUM - 2004 Paranta 3D |
| KA03 | 375031.98 | 6925359.89 | 40.97 | |
| SP01 | 379313.71 | 6924534.38 | 33.68 | |
| SP02 | 372437.80 | 6916046.49 | 43.11 | |
| SP03 | 378765.68 | 6907002.13 | 38.08 | |
| SP04 | 372730.18 | 6902721.35 | 35.14 | |
| SP05 | 366387.06 | 6906861.28 | 32.51 | |
| SP06 | 371302.26 | 6909140.04 | 39.13 | |
| SP07 | 370473.66 | 6897239.16 | 40.88 | |
| TP100 | 380158.80 | 6927560.67 | 34.04 | Temporary base |

Checks:

| Station | Easting | Northing | AHD | Comment |
|---------|-----------|------------|-------|------------|
| KA03 | 375031.98 | 6925359.89 | 40.92 | Paranta 3D |
| | 375032.18 | 6925359.85 | 40.97 | Day 07013 |
| | 0.20 | -0.04 | 0.05 | |

Control Network Diagram

Receiver Line Length Summary

Spinel 3D - Receiver Line Summary

Station Interval = 40m

| Line Number | SOL | EOL | Distance |
|--------------------|------------|------------|-----------------|
| GAS07-1804 | 5085 | 5172 | 3.48 |
| GAS07-1812 | 5085 | 5172 | 3.48 |
| GAS07-1820 | 5085 | 5172 | 3.48 |
| GAS07-1828 | 5085 | 5172 | 3.48 |
| GAS07-1836 | 5085 | 5172 | 3.48 |
| GAS07-1844 | 5085 | 5172 | 3.48 |
| GAS07-1852 | 5085 | 5172 | 3.48 |
| GAS07-1860 | 5085 | 5172 | 3.48 |
| GAS07-1868 | 5085 | 5172 | 3.48 |
| GAS07-1876 | 5085 | 5181 | 3.84 |
| GAS07-1884 | 5085 | 5189 | 4.16 |
| GAS07-1892 | 5085 | 5198 | 4.52 |
| GAS07-1900 | 5085 | 5206 | 4.84 |
| GAS07-1908 | 5085 | 5215 | 5.20 |
| GAS07-1916 | 5085 | 5223 | 5.52 |
| GAS07-1924 | 5085 | 5232 | 5.88 |
| GAS07-1932 | 5085 | 5240 | 6.20 |
| GAS07-1940 | 5085 | 5308 | 8.92 |
| GAS07-1948 | 5085 | 5324 | 9.56 |
| GAS07-1956 | 5085 | 5332 | 9.88 |
| GAS07-1964 | 5085 | 5340 | 10.20 |
| GAS07-1972 | 5085 | 5348 | 10.52 |
| GAS07-1980 | 5085 | 5356 | 10.84 |
| GAS07-1988 | 5085 | 5364 | 11.16 |
| GAS07-1996 | 5085 | 5372 | 11.48 |
| GAS07-2004 | 5085 | 5372 | 11.48 |
| GAS07-2012 | 5085 | 5372 | 11.48 |
| GAS07-2020 | 4989 | 5372 | 15.32 |
| GAS07-2028 | 4989 | 5372 | 15.32 |
| GAS07-2036 | 4989 | 5372 | 15.32 |
| GAS07-2044 | 4989 | 5372 | 15.32 |
| GAS07-2052 | 4989 | 5372 | 15.32 |
| GAS07-2060 | 4989 | 5372 | 15.32 |
| GAS07-2068 | 4989 | 5372 | 15.32 |
| GAS07-2076 | 4989 | 5372 | 15.32 |
| GAS07-2084 | 4989 | 5372 | 15.32 |
| GAS07-2092 | 4989 | 5372 | 15.32 |
| GAS07-2100 | 4989 | 5372 | 15.32 |
| GAS07-2108 | 4989 | 5372 | 15.32 |

| Line Number | SOL | EOL | Distance |
|--------------------|------------|------------|-----------------|
| GAS07-2116 | 4989 | 5372 | 15.32 |
| GAS07-2124 | 4989 | 5372 | 15.32 |
| GAS07-2132 | 4989 | 5372 | 15.32 |
| GAS07-2140 | 4989 | 5372 | 15.32 |
| GAS07-2148 | 4989 | 5372 | 15.32 |
| GAS07-2156 | 4989 | 5372 | 15.32 |
| GAS07-2164 | 4989 | 5372 | 15.32 |
| GAS07-2172 | 4989 | 5372 | 15.32 |
| GAS07-2180 | 5093 | 5372 | 11.16 |
| GAS07-2188 | 5093 | 5372 | 11.16 |
| GAS07-2196 | 5093 | 5372 | 11.16 |
| GAS07-2204 | 5093 | 5372 | 11.16 |
| GAS07-2212 | 5093 | 5372 | 11.16 |
| GAS07-2220 | 5093 | 5372 | 11.16 |
| GAS07-2228 | 5093 | 5476 | 15.32 |
| GAS07-2236 | 5093 | 5476 | 15.32 |
| GAS07-2244 | 5093 | 5476 | 15.32 |
| GAS07-2252 | 5093 | 5476 | 15.32 |
| GAS07-2260 | 5093 | 5476 | 15.32 |
| GAS07-2268 | 5093 | 5476 | 15.32 |
| GAS07-2276 | 5093 | 5476 | 15.32 |
| GAS07-2284 | 5093 | 5476 | 15.32 |
| GAS07-2292 | 5093 | 5476 | 15.32 |
| GAS07-2300 | 5093 | 5476 | 15.32 |
| GAS07-2308 | 5093 | 5476 | 15.32 |
| GAS07-2316 | 5093 | 5476 | 15.32 |
| GAS07-2324 | 5093 | 5476 | 15.32 |
| GAS07-2332 | 5093 | 5476 | 15.32 |
| GAS07-2340 | 5093 | 5476 | 15.32 |
| GAS07-2348 | 5093 | 5476 | 15.32 |
| GAS07-2356 | 5093 | 5434 | 13.64 |
| GAS07-2364 | 5093 | 5431 | 13.52 |
| GAS07-2372 | 5093 | 5429 | 13.44 |
| GAS07-2380 | 5093 | 5426 | 13.32 |
| GAS07-2388 | 5093 | 5424 | 13.24 |
| GAS07-2396 | 5093 | 5421 | 13.12 |
| GAS07-2404 | 5093 | 5419 | 13.04 |
| GAS07-2412 | 5093 | 5417 | 12.96 |
| GAS07-2420 | 5093 | 5414 | 12.84 |
| GAS07-2428 | 5093 | 5412 | 12.76 |
| GAS07-2436 | 5093 | 5409 | 12.64 |
| GAS07-2444 | 5093 | 5407 | 12.56 |
| GAS07-2452 | 5093 | 5404 | 12.44 |

| Line Number | SOL | EOL | Distance |
|--------------------|------------|------------|-----------------|
| GAS07-2460 | 5093 | 5402 | 12.36 |
| GAS07-2468 | 5093 | 5400 | 12.28 |
| GAS07-2476 | 5093 | 5397 | 12.16 |
| GAS07-2484 | 5093 | 5395 | 12.08 |
| GAS07-2492 | 5093 | 5392 | 11.96 |
| GAS07-2500 | 5093 | 5390 | 11.88 |
| GAS07-2508 | 5093 | 5387 | 11.76 |
| GAS07-2516 | 5093 | 5385 | 11.68 |
| GAS07-2524 | 5093 | 5383 | 11.60 |
| GAS07-2532 | 5093 | 5380 | 11.48 |
| GAS07-2540 | 5093 | 5396 | 12.12 |
| GAS07-2548 | 5093 | 5412 | 12.76 |
| GAS07-2556 | 5093 | 5428 | 13.40 |
| GAS07-2564 | 5093 | 5444 | 14.04 |
| GAS07-2572 | 5093 | 5460 | 14.68 |
| GAS07-2580 | 5093 | 5476 | 15.32 |
| GAS07-2588 | 5093 | 5476 | 15.32 |
| GAS07-2596 | 5093 | 5476 | 15.32 |
| GAS07-2604 | 5093 | 5476 | 15.32 |
| GAS07-2612 | 5093 | 5476 | 15.32 |
| GAS07-2620 | 5093 | 5476 | 15.32 |
| GAS07-2628 | 5093 | 5476 | 15.32 |
| GAS07-2636 | 5093 | 5476 | 15.32 |
| GAS07-2644 | 5093 | 5476 | 15.32 |
| GAS07-2652 | 5093 | 5476 | 15.32 |
| GAS07-2660 | 5093 | 5476 | 15.32 |
| GAS07-2668 | 5093 | 5300 | 8.28 |
| GAS07-2676 | 5093 | 5300 | 8.28 |
| GAS07-2684 | 5093 | 5300 | 8.28 |
| GAS07-2692 | 5093 | 5300 | 8.28 |
| GAS07-2700 | 5093 | 5300 | 8.28 |
| GAS07-2708 | 5093 | 5300 | 8.28 |
| GAS07-2716 | 5093 | 5300 | 8.28 |
| GAS07-2724 | 5093 | 5300 | 8.28 |
| GAS07-2732 | 5093 | 5300 | 8.28 |
| GAS07-2740 | 5093 | 5300 | 8.28 |
| GAS07-2748 | 5093 | 5300 | 8.28 |
| GAS07-2756 | 5093 | 5300 | 8.28 |
| GAS07-2764 | 5093 | 5300 | 8.28 |
| GAS07-2772 | 5093 | 5300 | 8.28 |
| GAS07-2780 | 5093 | 5300 | 8.28 |
| GAS07-2788 | 5093 | 5300 | 8.28 |
| GAS07-2796 | 5093 | 5300 | 8.28 |

| Line Number | SOL | EOL | Distance |
|--------------------|------------|--------------|-----------------|
| GAS07-2804 | 5093 | 5300 | 8.28 |
| GAS07-2812 | 5093 | 5300 | 8.28 |
| GAS07-2820 | 5093 | 5300 | 8.28 |
| GAS07-2828 | 5093 | 5300 | 8.28 |
| GAS07-2836 | 5093 | 5300 | 8.28 |
| GAS07-2844 | 5093 | 5300 | 8.28 |
| GAS07-2852 | 5093 | 5300 | 8.28 |
| GAS07-2860 | 5093 | 5300 | 8.28 |
| GAS07-2868 | 5093 | 5300 | 8.28 |
| GAS07-2876 | 5093 | 5300 | 8.28 |
| GAS07-2884 | 5093 | 5300 | 8.28 |
| GAS07-2892 | 5093 | 5300 | 8.28 |
| | | TOTAL | 1559.88 |

Source Line Length Summary

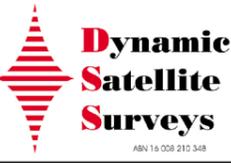
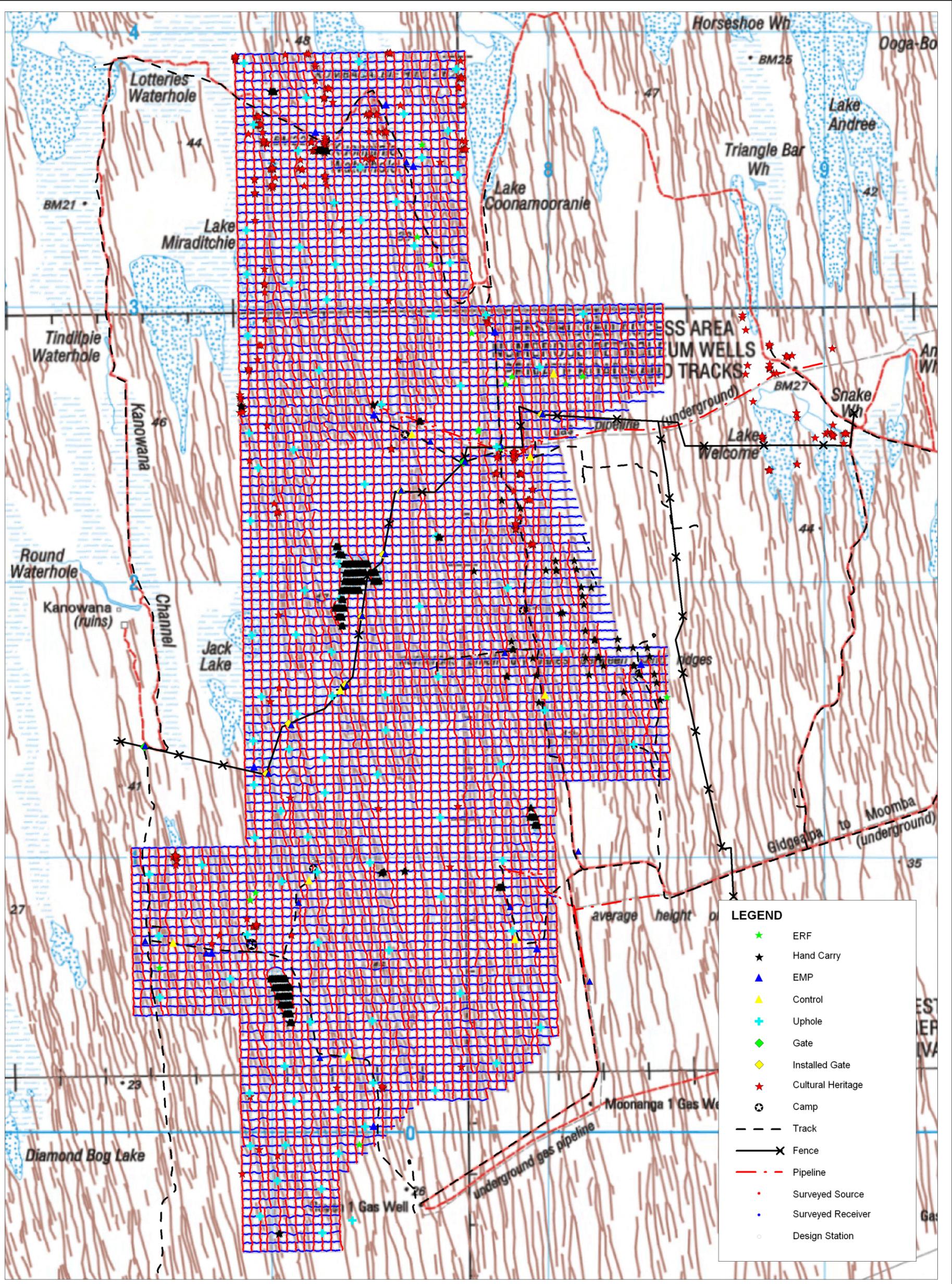
Spinel 3D - Source Line Summary

Station Interval = 40m

| Line Number | SOL | EOL | Distance |
|-------------|------|------|----------|
| GAS07-4988 | 2021 | 2172 | 6.04 |
| GAS07-4996 | 2021 | 2172 | 6.04 |
| GAS07-5004 | 2021 | 2172 | 6.04 |
| GAS07-5012 | 2021 | 2172 | 6.04 |
| GAS07-5020 | 2021 | 2172 | 6.04 |
| GAS07-5028 | 2021 | 2172 | 6.04 |
| GAS07-5036 | 2021 | 2172 | 6.04 |
| GAS07-5044 | 2021 | 2172 | 6.04 |
| GAS07-5052 | 2021 | 2172 | 6.04 |
| GAS07-5060 | 2021 | 2172 | 6.04 |
| GAS07-5068 | 2021 | 2172 | 6.04 |
| GAS07-5076 | 2021 | 2172 | 6.04 |
| GAS07-5084 | 1805 | 2172 | 14.68 |
| GAS07-5092 | 1805 | 2892 | 43.48 |
| GAS07-5100 | 1805 | 2892 | 43.48 |
| GAS07-5108 | 1805 | 2892 | 43.48 |
| GAS07-5116 | 1805 | 2892 | 43.48 |
| GAS07-5124 | 1805 | 2892 | 43.48 |
| GAS07-5132 | 1805 | 2892 | 43.48 |
| GAS07-5140 | 1805 | 2892 | 43.48 |
| GAS07-5148 | 1805 | 2892 | 43.48 |
| GAS07-5156 | 1805 | 2892 | 43.48 |
| GAS07-5164 | 1805 | 2892 | 43.48 |
| GAS07-5172 | 1805 | 2892 | 43.48 |
| GAS07-5180 | 1876 | 2892 | 40.64 |
| GAS07-5188 | 1884 | 2892 | 40.32 |
| GAS07-5196 | 1891 | 2892 | 40.04 |
| GAS07-5204 | 1899 | 2892 | 39.72 |
| GAS07-5212 | 1906 | 2892 | 39.44 |
| GAS07-5220 | 1914 | 2892 | 39.12 |
| GAS07-5228 | 1921 | 2892 | 38.84 |
| GAS07-5236 | 1929 | 2892 | 38.52 |
| GAS07-5244 | 1936 | 2892 | 38.24 |
| GAS07-5252 | 1941 | 2892 | 38.04 |
| GAS07-5260 | 1941 | 2892 | 38.04 |
| GAS07-5268 | 1941 | 2892 | 38.04 |
| GAS07-5276 | 1941 | 2892 | 38.04 |
| GAS07-5284 | 1941 | 2892 | 38.04 |

| Line Number | SOL | EOL | Distance |
|-------------|------|--------------|----------------|
| GAS07-5292 | 1941 | 2892 | 38.04 |
| GAS07-5300 | 1941 | 2892 | 38.04 |
| GAS07-5308 | 1941 | 2660 | 28.76 |
| GAS07-5316 | 1949 | 2660 | 28.44 |
| GAS07-5324 | 1950 | 2660 | 28.40 |
| GAS07-5332 | 1957 | 2660 | 28.12 |
| GAS07-5340 | 1965 | 2660 | 27.80 |
| GAS07-5348 | 1973 | 2660 | 27.48 |
| GAS07-5356 | 1981 | 2660 | 27.16 |
| GAS07-5364 | 1989 | 2523 | 21.36 |
| | 2535 | 2660 | 5.00 |
| GAS07-5372 | 1997 | 2498 | 20.04 |
| | 2540 | 2660 | 4.80 |
| GAS07-5380 | 2229 | 2472 | 9.72 |
| | 2543 | 2660 | 4.68 |
| GAS07-5388 | 2229 | 2447 | 8.72 |
| | 2547 | 2660 | 4.52 |
| GAS07-5396 | 2229 | 2422 | 7.72 |
| | 2551 | 2660 | 4.36 |
| GAS07-5404 | 2229 | 2397 | 6.72 |
| | 2555 | 2660 | 4.20 |
| GAS07-5412 | 2229 | 2371 | 5.68 |
| | 2559 | 2660 | 4.04 |
| GAS07-5420 | 2229 | 2346 | 4.68 |
| | 2563 | 2660 | 3.88 |
| GAS07-5428 | 2229 | 2326 | 3.88 |
| | 2567 | 2660 | 3.72 |
| GAS07-5436 | 2229 | 2329 | 4.00 |
| | 2571 | 2660 | 3.56 |
| GAS07-5444 | 2229 | 2333 | 4.16 |
| | 2575 | 2660 | 3.40 |
| GAS07-5452 | 2229 | 2337 | 4.32 |
| | 2579 | 2660 | 3.24 |
| GAS07-5460 | 2229 | 2341 | 4.48 |
| | 2583 | 2660 | 3.08 |
| GAS07-5468 | 2229 | 2345 | 4.64 |
| | 2586 | 2660 | 2.96 |
| GAS07-5476 | 2229 | 2348 | 4.76 |
| | 2589 | 2660 | 2.84 |
| | | TOTAL | 1555.92 |

Plan View Map



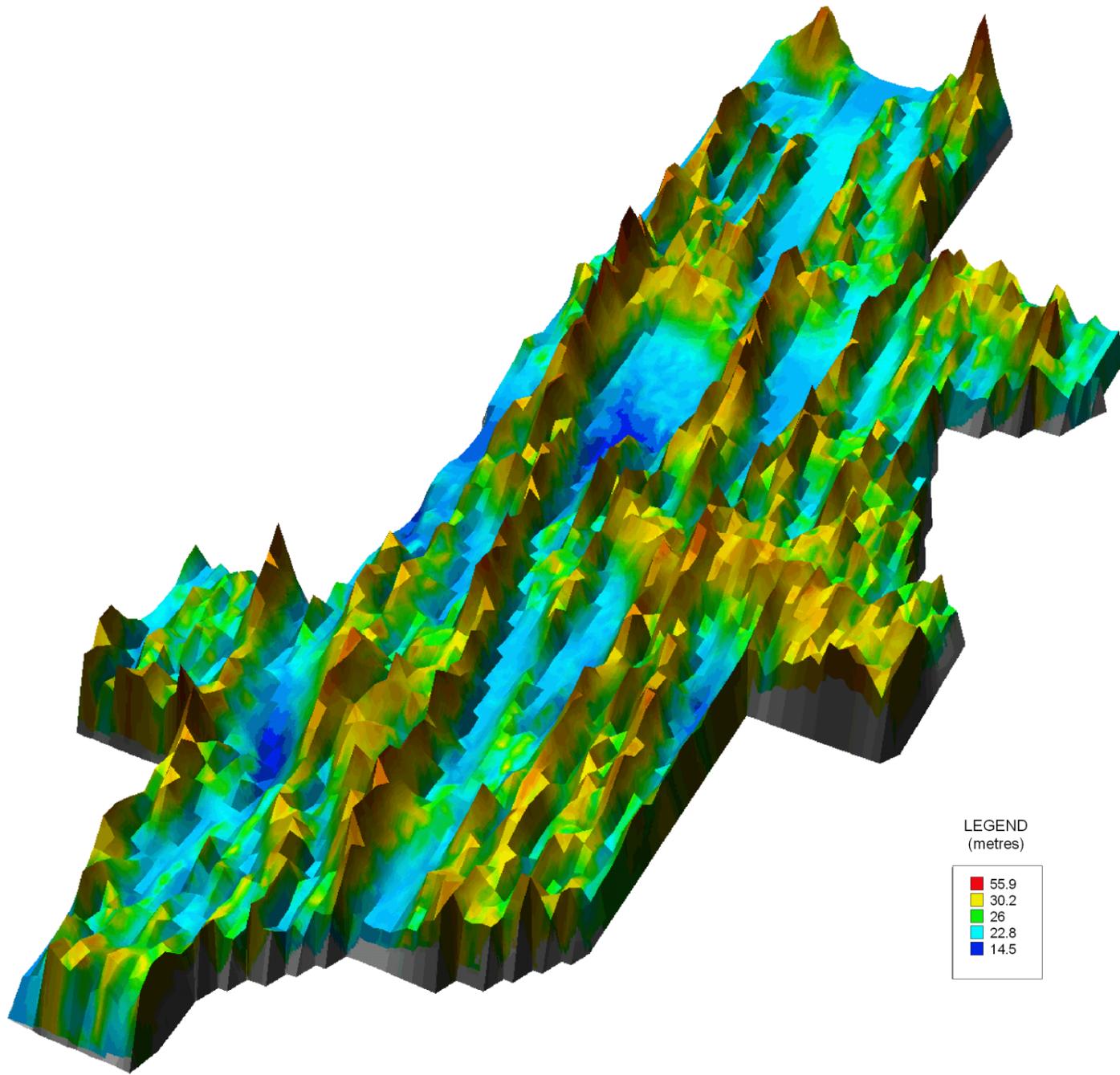
Dynamic Satellite Surveys Pty Ltd
 PO Box 713
 YEPPON QLD 4703
 Ph: 07 4939 2866
 Fax: 07 4939 2867
 Email: yeppoon@dss.com.au
 Web: www.dss.com.au

The purpose of this map is to represent the surveyed digital data in a pictorial manner only. The accuracy of the underlying topographic image in no way relates to the accuracy of the surveyed digital data. Features on the topographic map have not necessarily been surveyed by DSS. Any use of this map for reasons other than the purpose for which it was created is not authorised.

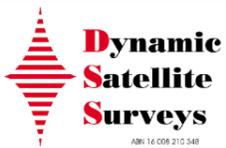
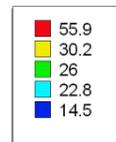
| | |
|-------|----------------|
| Scale | 1:125000 @ A3 |
| Drawn | Denis Williams |
| File | Prospect Map |
| Date | 10-04-2007 |
| Rev | 1.0 |

Greater Artesian Oil and Gas
SPINEL 3D

3D Map



LEGEND
(metres)



Dynamic Satellite Surveys Pty Ltd
PO Box 713
YEPPON QLD 4703
Ph: 07 4939 2866
Fax: 07 4939 2867
Email: yeppoon@dss.com.au
Web: www.dss.com.au

The purpose of this map is to represent the surveyed digital data in a pictorial manner only. The accuracy of the underlying topographic image in no way relates to the accuracy of the surveyed digital data. Features on the topographic map have not necessarily been surveyed by DSS. Any use of this map for reasons other than the purpose for which it was created is not authorised.

| | |
|-------|----------------|
| Scale | Not to scale |
| Drawn | Denis Williams |
| File | 3D Map |
| Date | 10-04-2007 |
| Rev | 1.0 |

Greater Artesian Oil and Gas

SPINEL 3D

Environmental Monitoring Points

Environmental Monitoring Points (EMPs)

Coordinates are MGA Zone 54

(EMP descriptions available on the CD)

| ID | Easting | Northing |
|-----------|----------------|-----------------|
| EMP1 | 383331 | 6916998 |
| EMP2 | 378032 | 6929085 |
| EMP3 | 373653 | 6926072 |
| EMP4 | 379556 | 6906657 |
| EMP5 | 373642 | 6900209 |
| EMP6 | 367784 | 6906506 |
| EMP7 | 369316 | 6913268 |
| EMP8 | 375084 | 6935109 |
| EMP9 | 374085 | 6937339 |
| EMP10 | 371538 | 6936342 |

Environmental Reference Points

Environmental Reference Points (ERFs)

Coordinates are MGA Zone 54

(ERF descriptions available on the CD)

| ERF Name | Easting | Northing |
|-----------------|----------------|-----------------|
| ERF 1 | 384253 | 6915810 |
| ERF 2 | 377441 | 6925537 |
| ERF 3 | 381205 | 6927478 |
| ERF 4 | 378650 | 6927469 |
| ERF 5 | 377417 | 6925474 |
| ERF 6 | 378430 | 6927198 |
| ERF 7 | 377186 | 6929041 |
| ERF 8 | 375219 | 6932548 |
| ERF 9 | 375719 | 6931539 |
| ERF 10 | 373125 | 6899552 |
| ERF 11 | 369177 | 6908449 |
| ERF 12 | 365883 | 6905978 |
| ERF 13 | 369365 | 6908703 |
| ERF 14 | 375385 | 6935900 |

Upholes Listing

Upholes Listing

All coordinates are MGA Zone 54
Heights are AHD71, using AusGeoid98 N Values

| Uphole # | Stn No. | Easting | Northing | Elevation |
|-----------------|------------------|----------------|-----------------|------------------|
| UHGA07-01 | 51561820 | 371762.68 | 6896342.26 | 22.68 |
| UHGA07-02 | outside prospect | 372869.77 | 6896793.72 | 38.85 |
| UHGA07-03 | 51001836 | 369514.75 | 6896952.14 | 24.76 |
| UHGA07-04 | 51561860 | 371752.90 | 6897954.99 | 24.66 |
| UHGA07-05 | 51161868 | 370173.29 | 6898231.83 | 23.64 |
| UHGA07-06 | 50921900 | 369181.22 | 6899491.48 | 28.57 |
| UHGA07-07 | 51721892 | 372354.73 | 6899217.02 | 23.64 |
| UHGA07-08 | 51241900 | 370447.48 | 6899535.36 | 24.94 |
| UHGA07-09 | 51961916 | 373242.04 | 6900209.60 | 22.38 |
| UHGA07-10 | 51721932 | 372345.95 | 6900827.14 | 21.53 |
| UHGA07-11 | 51321940 | 370751.98 | 6901124.86 | 23.04 |
| UHGA07-12 | 50921948 | 369145.68 | 6901421.59 | 22.62 |
| UHGA07-13 | 19485260 | 375871.07 | 6901513.60 | 20.54 |
| UHGA07-14 | 52041956 | 373616.25 | 6901793.32 | 21.60 |
| UHGA07-15 | 51241972 | 370406.80 | 6902411.79 | 21.45 |
| UHGA07-16 | 53161972 | 378091.96 | 6902505.68 | 28.36 |
| UHGA07-18 | 53562004 | 379587.18 | 6903811.13 | 27.06 |
| UHGA07-19 | 51482012 | 371373.31 | 6904015.06 | 23.48 |
| UHGA07-20 | 52042012 | 373581.56 | 6904052.05 | 30.65 |
| UHGA07-21 | 52842036 | 376785.15 | 6905049.74 | 34.70 |
| UHGA07-22 | 50122037 | 365901.87 | 6904920.99 | 31.21 |
| UHGA07-23 | 50042148 | 365478.88 | 6909374.93 | 21.03 |
| UHGA07-24 | 50762052 | 368436.06 | 6905570.37 | 25.59 |
| UHGA07-25 | 52202076 | 374032.58 | 6906612.47 | 26.06 |
| UHGA07-26 | 50122092 | 365901.63 | 6907129.86 | 21.47 |
| UHGA07-27 | 50922092 | 369032.88 | 6907169.99 | 20.45 |
| UHGA07-28 | 53322092 | 378636.65 | 6907322.87 | 36.38 |
| UHGA07-29 | 51562084 | 371642.60 | 6906900.85 | 44.87 |
| UHGA07-30 | 52682124 | 376075.85 | 6908542.29 | 23.38 |
| UHGA07-31 | 51242140 | 370316.70 | 6909114.70 | 28.40 |
| UHGA07-32 | 51562148 | 371581.91 | 6909453.47 | 27.05 |
| UHGA07-33 | 50522156 | 367515.64 | 6909718.22 | 28.35 |
| UHGA07-34 | 52042156 | 373500.63 | 6909788.90 | 26.95 |
| UHGA07-35 | 53242156 | 378316.13 | 6909876.14 | 28.51 |
| UHGA07-36 | 51002180 | 369410.66 | 6910711.69 | 21.00 |
| UHGA07-37 | 51482180 | 371259.85 | 6910731.90 | 28.85 |
| UHGA07-38 | 52682196 | 376058.99 | 6911451.60 | 21.21 |
| UHGA07-39 | 51242204 | 370451.67 | 6911674.10 | 23.38 |

Upholes Listing

All coordinates are MGA Zone 54
Heights are AHD71, using AusGeoid98 N Values

| Uphole # | Stn No. | Easting | Northing | Elevation |
|-----------------|----------------|----------------|-----------------|------------------|
| UHGA07-40 | 51642220 | 371861.94 | 6912340.95 | 20.07 |
| UHGA07-41 | 51002228 | 369288.24 | 6912621.59 | 21.43 |
| UHGA07-42 | 52122236 | 373747.77 | 6913013.97 | 25.65 |
| UHGA07-43 | 22445326 | 378347.28 | 6913390.12 | 21.99 |
| UHGA07-44 | 22525164 | 371855.00 | 6913619.76 | 21.28 |
| UHGA07-45 | 51322260 | 370477.07 | 6913929.96 | 20.52 |
| UHGA07-46 | 22605443 | 383003.37 | 6914112.36 | 27.58 |
| UHGA07-47 | 22685101 | 369308.56 | 6914212.26 | 17.26 |
| UHGA07-48 | 52202276 | 374083.27 | 6914604.91 | 26.86 |
| UHGA07-49 | 52522276 | 375372.76 | 6914639.74 | 23.45 |
| UHGA07-50 | 22925364 | 379829.45 | 6915330.34 | 33.50 |
| UHGA07-51 | 51402292 | 370868.42 | 6915206.31 | 22.83 |
| UHGA07-52 | 23005171 | 372117.17 | 6915881.26 | 29.68 |
| UHGA07-53 | 23085108 | 369581.06 | 6915838.09 | 20.49 |
| UHGA07-54 | 52202308 | 374142.39 | 6915891.97 | 23.89 |
| UHGA07-55 | 52682324 | 375988.26 | 6916561.08 | 25.35 |
| UHGA07-56 | 51242347 | 372036.07 | 6917441.51 | 33.92 |
| UHGA07-57 | 23485380 | 380441.29 | 6917566.94 | 33.06 |
| UHGA07-58 | 23645100 | 369225.47 | 6918056.92 | 17.76 |
| UHGA07-59 | 23645141 | 370857.64 | 6918079.12 | 24.10 |
| UHGA07-60 | 52522388 | 375310.70 | 6919110.07 | 29.43 |
| UHGA07-61 | 24045332 | 378497.51 | 6919808.99 | 22.49 |
| UHGA07-62 | 51802396 | 372375.48 | 6919380.63 | 17.02 |
| UHGA07-63 | 51482404 | 371054.23 | 6919703.54 | 34.31 |
| UHGA07-65 | 51802428 | 372396.46 | 6920676.92 | 18.19 |
| UHGA07-66 | 52682452 | 375902.26 | 6921689.69 | 37.15 |
| UHGA07-67 | 51002468 | 369184.87 | 6922227.05 | 21.08 |
| UHGA07-70 | 25325141 | 370771.73 | 6924830.38 | 41.80 |
| UHGA07-71 | 53242532 | 378235.40 | 6924925.05 | 22.94 |
| UHGA07-72 | 51002548 | 369126.84 | 6925436.29 | 25.63 |
| UHGA07-73 | 52202572 | 373921.86 | 6926440.78 | 22.31 |
| UHGA07-76 | 26045365 | 379677.32 | 6927816.17 | 31.28 |
| UHGA07-78 | 52682652 | 375785.51 | 6929683.84 | 23.32 |
| UHGA07-79 | 26525317 | 377731.48 | 6929708.22 | 24.48 |
| UHGA07-80 | 26525148 | 381264.56 | 6929752.29 | 25.24 |
| UHGA07-85 | 27005180 | 372243.22 | 6931562.43 | 33.16 |
| UHGA07-86 | 52842700 | 376400.13 | 6931622.49 | 27.84 |
| UHGA07-88 | 52522716 | 375098.57 | 6932237.86 | 24.59 |

Chronological Summary

| Date | Survey Operations | |
|----------------|---|---|
| Dec 14 2006 | Camp move from Scutus 2D. Evening 3D induction conducted by Bruce Beer. DSS crew - Ben Allsopp, Trenton Moller, John Dilger, Denis Williams. | |
| Dec 15 | Standby in morning waiting for final updated coordinate listings. Work commenced mid morning. 4 dozers, 2 graders. Started cutting receiver lines in Panel 4. | Surveying Daily Total: 12.64 kms Dozing Daily Total: 13.28 kms |
| Dec 16 | D6 down (1hr) for airconditioner repair, D7 down (3hrs) for cage repair. | Surveying Daily Total: 29.76 kms Dozing Daily Total: 36.16 kms |
| Dec 17 | D6 down (1hr) for hydraulic hose leak. Evening safety meeting. | Surveying Daily Total: 30.08 kms Dozing Daily Total: 29.48 kms |
| Dec 18 | Large dunes on receiver lines slowed progress. Denis demobilised from Moomba. | Surveying Daily Total: 26.48 kms Dozing Daily Total: 28.76 kms |
| Dec 19 | D5 started cutting source lines today. Rain at the end of day. Demobilising tomorrow. | Surveying Daily Total: 38.64 kms Dozing Daily Total: 37.80 kms |
| Dec 20 | All personnel demobilised for Christmas Break. | |
| Jan 5 2007 | TC and DSS personnel mobilised to Fly Camp. DSS personnel - Ben Allsopp, John Dilger, Rob Meijers. | |
| Jan 6 | Morning toolbox meeting before start of work. | Surveying Daily Total: 26.00 kms Dozing Daily Total: 49.88 kms |

| Date | Survey Operations | |
|-------------|--|---|
| Jan 7 | D5 down for cab mount repairs, D6 down (0.5hrs) for air con repairs. Dozing completed bottom section of Panel 4. Evening Safety Meeting. | Surveying Daily Total: 39.76 kms Dozing Daily Total: 40.24 kms |
| Jan 8 | Steep dunes slowing progress. | Surveying Daily Total: 45.32 kms Dozing Daily Total: 43.16 kms |
| Jan 9 | D5 repair fault (2.5 hrs). Grader down (1 hrs) with flat tyre Ben collected deviation from Tirrawarra. | Surveying Daily Total: 34.96 kms Dozing Daily Total: 41.48 kms |
| Jan 10 | Steep dunes slowing progress. | Surveying Daily Total: 32.16 kms Dozing Daily Total: 44.76 kms |
| Jan 11 | Evening toolbox meeting. | Surveying Daily Total: 33.56 kms Dozing Daily Total: 44.28 kms |
| Jan 12 | Evening toolbox meeting. | Surveying Daily Total: 28.56 kms Dozing Daily Total: 46.36 kms |
| Jan 13 | Dozers working on source = high production. | Surveying Daily Total: 51.68 kms Dozing Daily Total: 80.92 kms |
| Jan 14 | D8 down (0.5 hrs) for servicing. Evening Safety Meeting. | Surveying Daily Total: 26.40 kms Dozing Daily Total: 53.88 kms |
| Jan 15 | Chris Carty visited DSS crew - Ben took CC around to show progress. | Surveying Daily Total: 39.60 kms Dozing Daily Total: 50.64 kms |

| Date | Survey Operations | |
|-------------|---|---|
| Jan 16 | D7 down for maintenance. | Surveying Daily Total: 38.24 kms Dozing Daily Total: 45.32 kms |
| Jan 17 | D7 down (8.5 hrs) for maintenance. Grader down (1 hr) flat tyre. | Surveying Daily Total: 33.68 kms Dozing Daily Total: 40.52 kms |
| Jan 18 | Standby (10 hrs) all day due to overnight rain. | Surveying Daily Total: 0 kms Dozing Daily Total: 0 kms |
| Jan 19 | Standby in morning (6.25 hrs) until ground dried out. | Surveying Daily Total: 21.36 kms Dozing Daily Total: 32.12 kms |
| Jan 20 | Heavy rain in the afternoon. | Surveying Daily Total: 49.32 kms Dozing Daily Total: 50.28 kms |
| Jan 21 | Standby (10 hrs) all day due to overnight rain. | Surveying Daily Total: 0 kms Dozing Daily Total: 0 kms |
| Jan 22 | Graders spent 7.5 hours on line and then touched up road towards Moomba to allow the water tanker to return. D5 zig-zagged around salt lake completing loads of little sections. | Surveying Daily Total: 42.08 kms Dozing Daily Total: 78.12 kms |
| Jan 23 | Graders spent 6.5 hours clearing roads for water tanker before returning to seismic line work. Water tanker returned to camp in afternoon. | Surveying Daily Total: 38.83 kms Dozing Daily Total: 53.60 kms |
| Jan 24 | D8 down (1.5 hrs) for airconditioner repairs. Sand dunes made for slow progress. | Surveying Daily Total: 40.92 kms Dozing Daily Total: 48.32 kms |

| Date | Survey Operations | |
|-------------|--|---|
| Jan 25 | Rob left for Moomba for crew rotation. | Surveying Daily Total: 39.88 kms Dozing Daily Total: 64.68 kms |
| Jan 26 | Denis Williams and Brendan Irwin in late morning. National Jet delayed from yesterday due to plane trouble. Denis training Brendan in afternoon. | Surveying Daily Total: 48.84 kms Dozing Daily Total: 46.04 kms |
| Jan 27 | Denis training Brendan and John. | Surveying Daily Total: 57.52 kms Dozing Daily Total: 47.88 kms |
| Jan 28 | Evening safety meeting. D8 down for hose repairs (3hrs). Cat grader down for repairs. | Surveying Daily Total: 53.60 kms Dozing Daily Total: 69.40 kms |
| Jan 29 | D6 down for airconditioner repairs (1hr). Cat grader still down for repairs. | Surveying Daily Total: 59.28 kms Dozing Daily Total: 43.08 kms |
| Jan 30 | D8 down for airconditioner repairs (2hrs). | Surveying Daily Total: 53.76 kms Dozing Daily Total: 45.64 kms |
| Jan 31 | Camp move to Tennyson #1 Well Site. (4 hrs) D5 and D8 Operators assisted with camp move. Steep dunes again on the bottom of panel 3. | Surveying Daily Total: 52.00 kms Dozing Daily Total: 21.16 kms |
| Feb 01 | Evening toolbox meeting. | Surveying Daily Total: 58.60 kms Dozing Daily Total: 37.96 kms |

| Date | Survey Operations | |
|-------------|---|---|
| Feb 02 | John and Denis drove to Moomba. John out on break, replaced by Steve. Steve completed Moomba Induction. | Surveying Daily Total: 52.08 kms Dozing Daily Total: 46.20 kms |
| Feb 03 | D8 down for service. | Surveying Daily Total: 61.48 kms Dozing Daily Total: 42.68 kms |
| Feb 04 | Evening tool box and safety meeting. Cat Grader down for flat tyres. D5 down for full service and steering fault. | Surveying Daily Total: 48.72 kms Dozing Daily Total: 24.68 kms |
| Feb 05 | Denis demobilised. D5 down with mechanical problems. | Surveying Daily Total: 53.52 kms Dozing Daily Total: 43.88 kms |
| Feb 06 | All dozers had breakdowns today. JD Grader down for repairs. | Surveying Daily Total: 38.60 kms Dozing Daily Total: 27.04 kms |
| Feb 07 | Survey slow due to hand carry sections through salt lakes. Mud was ankle deep in salt lakes. D5 down, D6 had faulty injector, D7 did hydraulic hose, JD Grader waiting for tyres. | Surveying Daily Total: 6.32 kms Dozing Daily Total: 42.36 kms |
| Feb 08 | D5 and D6 down all day. | Surveying Daily Total: 35.20 kms Dozing Daily Total: 36.32 kms |

| Date | Survey Operations | |
|-------------|---|---|
| Feb 09 | D5 and D6 down for repairs. | Surveying Daily Total: 37.64 kms Dozing Daily Total: 23.28 kms |
| Feb 10 | More backpacking in salt lakes. D5 still down for repairs. | Surveying Daily Total: 36.16 kms Dozing Daily Total: 36.24 kms |
| Feb 11 | D5 still down, D6 down for parts change-out with D5. Evening toolbox and safety meeting. | Surveying Daily Total: 42.68 kms Dozing Daily Total: 30.20 kms |
| Feb 12 | D5 still down. | Surveying Daily Total: 48.76 kms Dozing Daily Total: 51.08 kms |
| Feb 13 | D5 loaded onto float for transport to Adelaide tomorrow. | Surveying Daily Total: 45.16 kms Dozing Daily Total: 53.52 kms |
| Feb 14 | One flat tyre for Cat Grader. | Surveying Daily Total: 44.12 kms Dozing Daily Total: 39.20 kms |
| Feb 15 | Evening toolbox meeting. | Surveying Daily Total: 47.64 kms Dozing Daily Total: 43.04 kms |
| Feb 16 | D6 down for service. Brendan travelled out - replaced by John Dilger and Dave Nielsen. | Surveying Daily Total: 71.20 kms Dozing Daily Total: 35.28 kms |

| Date | Survey Operations | |
|-------------|--|---|
| Feb 17 | Bruce informed TC to use side-cuts where necessary from today onwards. D8 is to return to Panel 3 and cut every fifth receiver line for main crew access. | Surveying Daily Total: 47.88 kms Dozing Daily Total: 46.80 kms |
| Feb 18 | Evening toolbox and safety meeting. D7 recutting vibe accesses in Panel 3. | Surveying Daily Total: 60.52 kms Dozing Daily Total: 30.88 kms |
| Feb 19 | Ben demobilised. D8 cutting vibe access in Panel 3. Down for mechanical repairs (1 hr). | Surveying Daily Total: 40.48 kms Dozing Daily Total: 22.04 kms |
| Feb 20 | D8 recutting vibe accesses in Panel 3. | Surveying Daily Total: 46.00 kms Dozing Daily Total: 16.88 kms |
| Feb 21 | Survey caught dozers at midday. Steve to Moomba for consumables collection. D6 down with hydraulic problems. D8 cutting vibe accesses in Panel 3. | Surveying Daily Total: 11.28 kms Dozing Daily Total: 17.80 kms |
| Feb 22 | No survey today - no line cut. All survey crews attended Heat Management Induction at main camp. D6 - steering problems - shutdown at 4pm. D8 cutting vibe accesses in Panel 3 - down for 1 hour replacing sprockets. | Surveying Daily Total: 0 kms Dozing Daily Total: 13.08 kms |
| Feb 23 | No survey - insufficient lead - standby all day. D6 down due to broken oil seal. D8 walked back to south to cut vibe access. | Surveying Daily Total: 0 kms Dozing Daily Total: 8.48 kms |

| Date | Survey Operations | |
|-------------|---|---|
| Feb 24 | No survey - insufficient lead - standby all day. Steve demobilised to Yeppoon. | Surveying Daily Total: 0 kms Dozing Daily Total: 26.68 kms |
| Feb 25 | Survey crew now Dave and John. D6 had steering problems. D8 recutting dunes where necessary for vibe access. | Surveying Daily Total: 18.64 kms Dozing Daily Total: 36.88 kms |
| Feb 26 | New campsite area marked out for Crew 402 as directed by Jon Turner (phone) Graders cleared new campsite area. D8 still recutting dunes. | Surveying Daily Total: 23.52 kms Dozing Daily Total: 27.68 kms |
| Feb 27 | D6 down to steering problems. D8 recutting dunes. | Surveying Daily Total: 27.32 kms Dozing Daily Total: 18.76 kms |
| Feb 28 | Cat Grader on standby - caught dozers. D6 down for 2.5 hours - bleeding hydraulic pump. D8 recutting dunes as necessary. | Surveying Daily Total: 24.80 kms Dozing Daily Total: 26.40 kms |
| Mar 01 | Graders tidying up old lines D6 overheating and steering problems. | Surveying Daily Total: 17.92 kms Dozing Daily Total: 28.36 kms |
| Mar 02 | D6 overheating and steering problems. | Surveying Daily Total: 11.72 kms Dozing Daily Total: 31.32 kms |

| Date | Survey Operations | |
|-------------|---|---|
| Mar 03 | Dean Hausmann mobilises to crew. D6 had hydraulic leaks and new part change-over. | Surveying Daily Total: 28.24 kms Dozing Daily Total: 30.92 kms |
| Mar 04 | D6 - severe overheating and hydraulic problems. | Surveying Daily Total: 48.16 kms Dozing Daily Total: 24.72 kms |
| Mar 05 | Dave demobilised to Yeppoon. Evening emergency response scenario discussions. D6 stand-down due to mechanical failure. Both graders on standby waiting for dozer production. | Surveying Daily Total: 24.72 kms Dozing Daily Total: 13.96 kms |
| Mar 06 | D6 worked on. | Surveying Daily Total: 34.84 kms Dozing Daily Total: 29.04 kms |
| Mar 07 | Camp move - took all day with two surveyors. D6 - two hours stand down. | Surveying Daily Total: 8.96 kms Dozing Daily Total: 19.24 kms |
| Mar 08 | Graders working on lines and cleaning up new camp site. | Surveying Daily Total: 42.40 kms Dozing Daily Total: 35.88 kms |
| Mar 09 | John demobilised - replace by Hamish McKenzie. Dozers slow going - in big dunes. | Surveying Daily Total: 30.24 kms Dozing Daily Total: 21.08 kms |
| Mar 10 | Big dunes slowed dozer production. | Surveying Daily Total: 30.96 kms Dozing Daily Total: 17.44 kms |

| Date | Survey Operations | |
|-------------|--|---|
| Mar 11 | Evening toolbox meeting. | Surveying Daily Total: 32.24 kms Dozing Daily Total: 54.56 kms |
| Mar 12 | D6 re-cut access to new camp. | Surveying Daily Total: 44.08 kms Dozing Daily Total: 32.48 kms |
| Mar 13 | Big dunes all day. | Surveying Daily Total: 51.76 kms Dozing Daily Total: 29.12 kms |
| Mar 14 | Hamish demobilised. D6 fixed and ready. D8 had mechanical failure early morning. | Surveying Daily Total: 22.00 kms Dozing Daily Total: 24.32 kms |
| Mar 15 | Brendan Irwin mobilised. Emergency drill performed in field. Cat grader on stand down - caught dozers. Three dozers to be used to complete project. | Surveying Daily Total: 19.60 kms Dozing Daily Total: 34.96 kms |
| Mar 16 | Slow work in big dunes. Patchy light rain but won't affect work. | Surveying Daily Total: 42.88 kms Dozing Daily Total: 29.60 kms |
| Mar 17 | Evening toolbox meeting | Surveying Daily Total: 46.52 kms Dozing Daily Total: 43.28 kms |
| Mar 18 | Brendan re-pegged line after mistake in de-pegging by main crew. Grader down for one hour to re-fit ne fuel line. | Surveying Daily Total: 43.52 kms Dozing Daily Total: 35.12 kms |

| Date | Survey Operations | |
|-------------|---|---|
| Mar 19 | D5 down for one hour maintenance. | <i>Surveying Daily Total: 45.56 kms</i> <i>Dozing Daily Total: 40.36 kms</i> |
| Mar 20 | Evening toolbox meeting. | <i>Surveying Daily Total: 28.08 kms</i> <i>Dozing Daily Total: 42.60 kms</i> |
| Mar 21 | Evening toolbox meeting. | <i>Surveying Daily Total: 53.48 kms</i> <i>Dozing Daily Total: 50.08 kms</i> |
| Mar 22 | Evening toolbox meeting. | <i>Surveying Daily Total: 52.88 kms</i> <i>Dozing Daily Total: 52.44 kms</i> |
| Mar 23 | Evening toolbox meeting. | <i>Surveying Daily Total: 56.28 kms</i> <i>Dozing Daily Total: 48.64 kms</i> |
| Mar 24 | Standby in afternoon due to wet weather. | <i>Surveying Daily Total: 41.52 kms</i> <i>Dozing Daily Total: 40.64 kms</i> |
| Mar 25 | Weekly safety meeting. Large dunes in NE Corner. | <i>Surveying Daily Total: 60.28 kms</i> <i>Dozing Daily Total: 38.40 kms</i> |
| Mar 26 | All lines completed. | <i>Surveying Daily Total: 43.72 kms</i> <i>Dozing Daily Total: 15.36 kms</i> |
| Mar 27 | Crew demobilises to Yeppoon. | |

Photographs



Receiver Line after January rain.



Fence line through centre of prospect.



Pegging through salt lake.

DATA PROCESSING REPORT

***GREAT ARTESIAN OIL & GAS
2007 MERGED SPINEL 3D SEISMIC SURVEY
PEL 106
COOPER BASIN
SOUTH AUSTRALIA***

Date Processed: *February 2007 – December 2007*
Date Compiled: *31 January 2008*
Report Number: *VP08-303*
Compiled By: *Karel Driml*

Velseis Processing Pty Ltd
ABN 30 058 427 204



Disclaimer

This report has been prepared in good faith and with all due care and diligence. It is based on the seismic and other geophysical data presented and referred to, in combination with the author's experience with the seismic technique, and as tempered by the geological and stratigraphic evidence presented in various forms and through discussions with client representatives.

As such, the report represents a collation of opinions, conclusions and recommendations, the majority of which remain untested at the time of preparation. In the light of these facts it must be clearly understood that Velseis Processing Pty. Ltd., its proprietors and employees cannot take responsibility for any consequences arising from this report.

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INTRODUCTION

Velseis Processing Pty. Ltd. processed the 2007 Spinel 3D Seismic Survey, which consists of approximately 495 km² of 3D seismic data, for GAOG. The smaller 2006 Paranta 3D (82.25 km²)and 2002 Raven-Moonanga 3D (82.39 km²) Surveys were merged with the Spinel volume to get one consistent dataset over the entire merged area of approx 620 km². The Spinel data was acquired by Terrex in February and March 2007. Processing commenced in February 2007 and was completed by December 2007.

Data quality was good over the whole survey area but poor penetration below the thick Permian Coals produced a lower quality image in the deeper section. Processes were applied with the goal of preserving true amplitude.

Acquisition Parameters for the Spinel and Paranta 3D Seismic Survey.

| | |
|-----------------------------|--------------------------|
| Area | PEL106 Cooper Basin |
| Surface Area (Sq km) | 495 Spinel 82.25 Paranta |
| No. Source Points | 55737 / 6445 |

| | |
|-------------------------|---------------------------------|
| Acquisition contractor: | Terrex Seismic Crew 402 |
| Live patch: | 10 lines x 112 channels in each |
| Number of Channels: | 1120 |
| Source line spacing: | 320 m |
| Source interval: | 40 m |
| Receiver line spacing: | 320 m |
| Group interval: | 40 m |
| Fold: | 35 |
| Bin size: | 20 m inline, 20 m crossline |
| Record Length: | 4 secs |
| Sample Rate: | 2 msec |
| Sweep: | 5-90 Hz |

- **Receiver and Source line orientations were different for the two surveys**

Acquisition Parameters for the 2002 Raven-Moonanga 3D Seismic Survey.

| | |
|-----------------------------|---------------------|
| Area | PEL106 Cooper Basin |
| Surface Area (Sq km) | 82.39 |
| No. Source Points | 2008 |

Acquisition contractor: Western Geco Crew 1161
Live patch: 8 lines x 96 channels in each
Number of Channels: 768
Source line spacing: 560 m (Zig Zag)
Source interval: 140 m
Receiver line spacing: 400 m
Group interval: 50 m
Fold: 24
Bin size: 25 m inline, 50 m crossline
Record Length: 4 secs
Sample Rate: 2 msecs
Sweep: 5-90 Hz

Following is the layout of the source and receivers for all three surveys. A couple of source positions were located off the main grid in the Northern area. These proved to be some rogue test records that were incorporated into the geometry. These records were not used for subsequent processing.

The layout plots show the different orientations of the Paranta and Raven surveys.

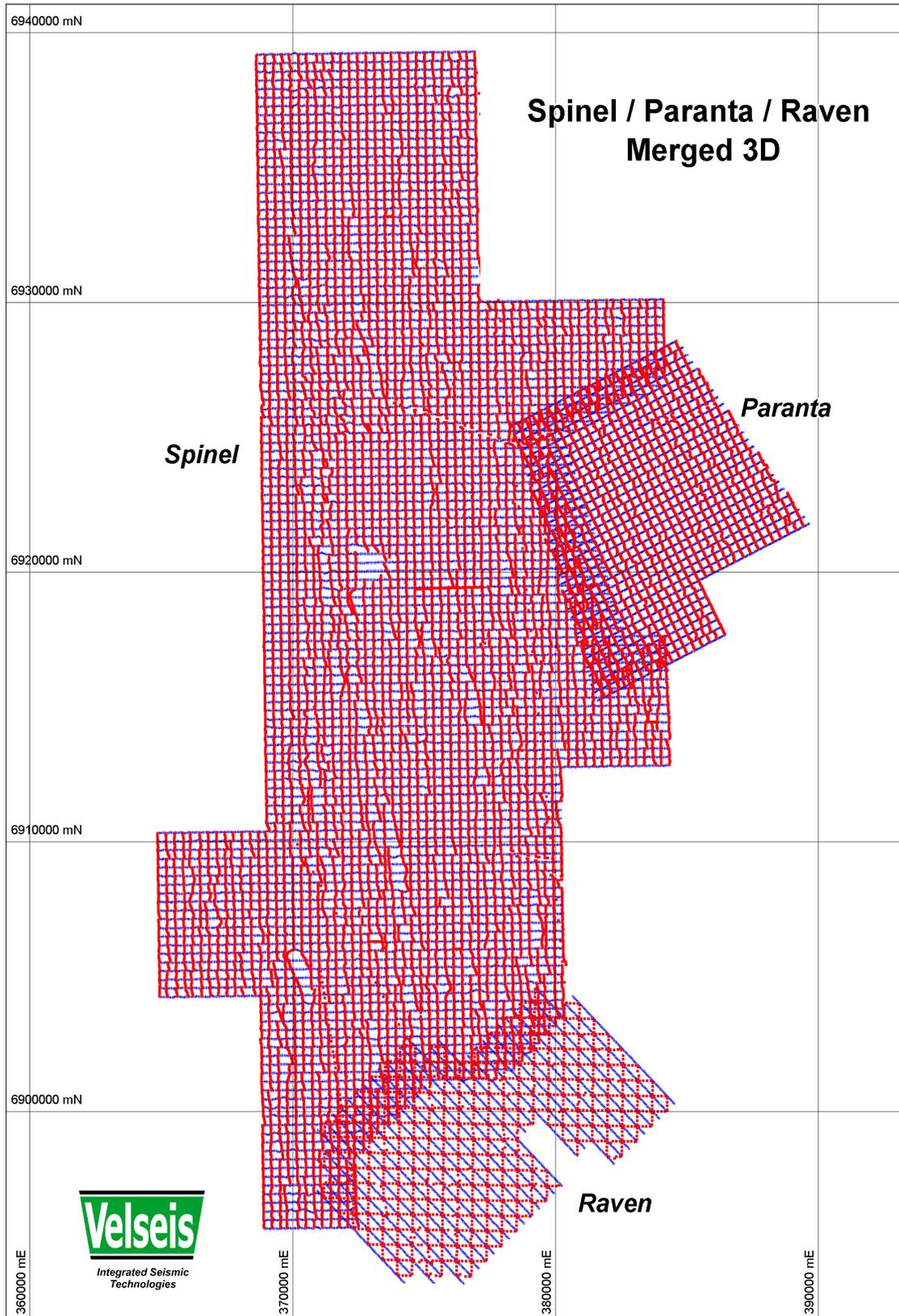


Figure 1 – Source Receiver Layout Merged Surveys

PROCESSING PARAMETERS

Reformat

Input is reformatted to ProMAX internal data format.

Geometry

Assign geometry information to trace headers. Information assigned to each trace includes source, receiver and CDP location along with offsets and CDP fold.

Grid Parameters are :

| | |
|--------------|----------------|
| Azimuth | 359.2 Degrees |
| Bin | 20m X 20m |
| X Origin | 365083.59 |
| Y Origin | 6893638.5 |
| In-lines | 1-2300 |
| Cross-lines | 1-1278 |
| Co-ordinates | GDA 94 Zone 54 |

Corner Points 3D Grid

| <i>In-line</i> | <i>Cross-line</i> | <i>X co-ordinate</i> | <i>Y co-ordinate</i> |
|----------------|-------------------|----------------------|----------------------|
| 1 | 1 | 365083.6 | 6893638.5 |
| 1 | 1278 | 390621.1 | 6893995.0 |
| 2300 | 1 | 364441.6 | 6939614.0 |
| 2300 | 1278 | 389979.1 | 6939970.5 |

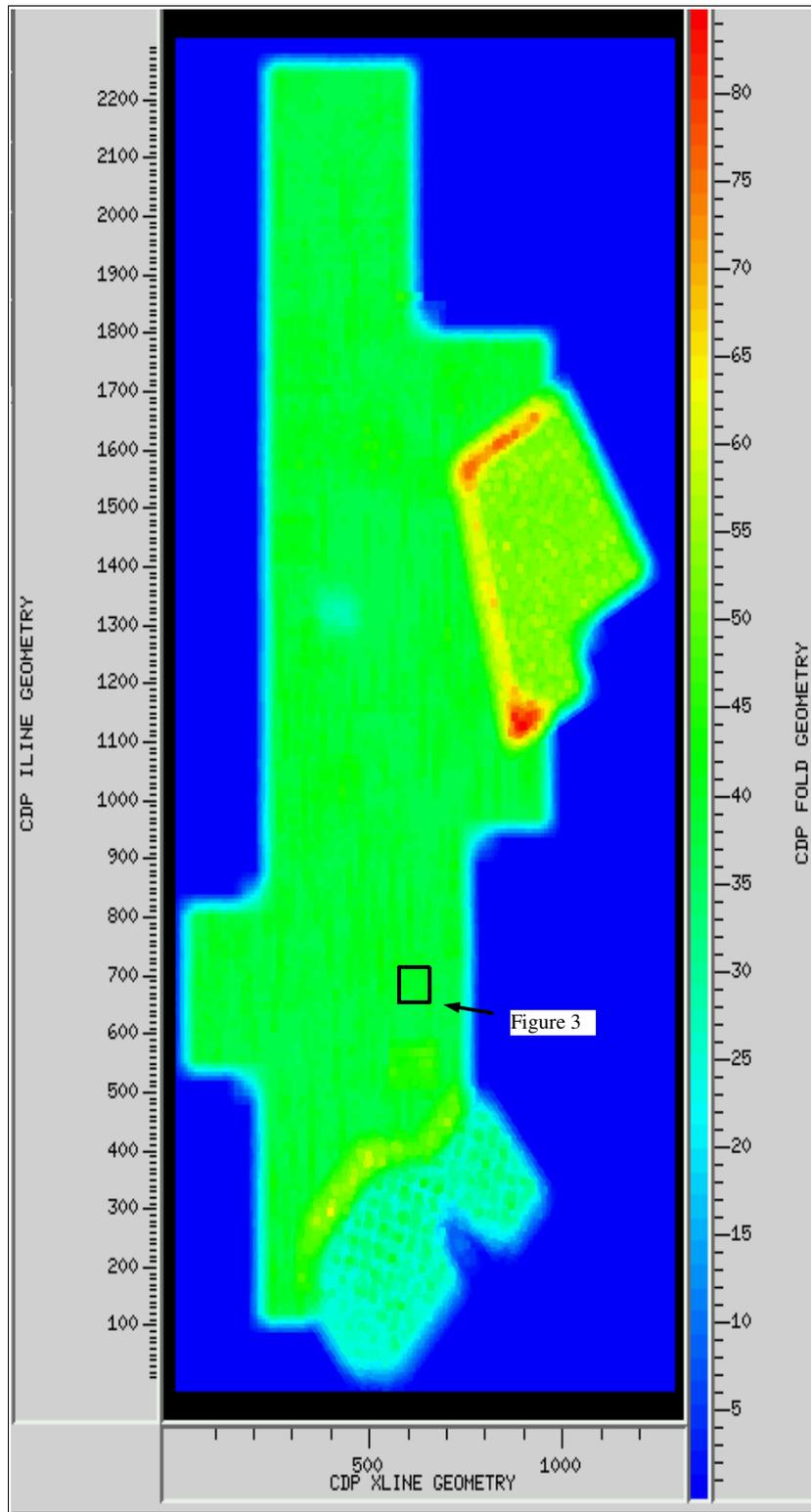


Figure 2 – CDP Fold Plot for Merged 3D Grid

Note the Raven grid in the south has lower fold. Closer inspection shows large variations of fold between neighbouring bins. Fold also increases at the overlap areas between the Spinel, Paranta and Raven surveys.

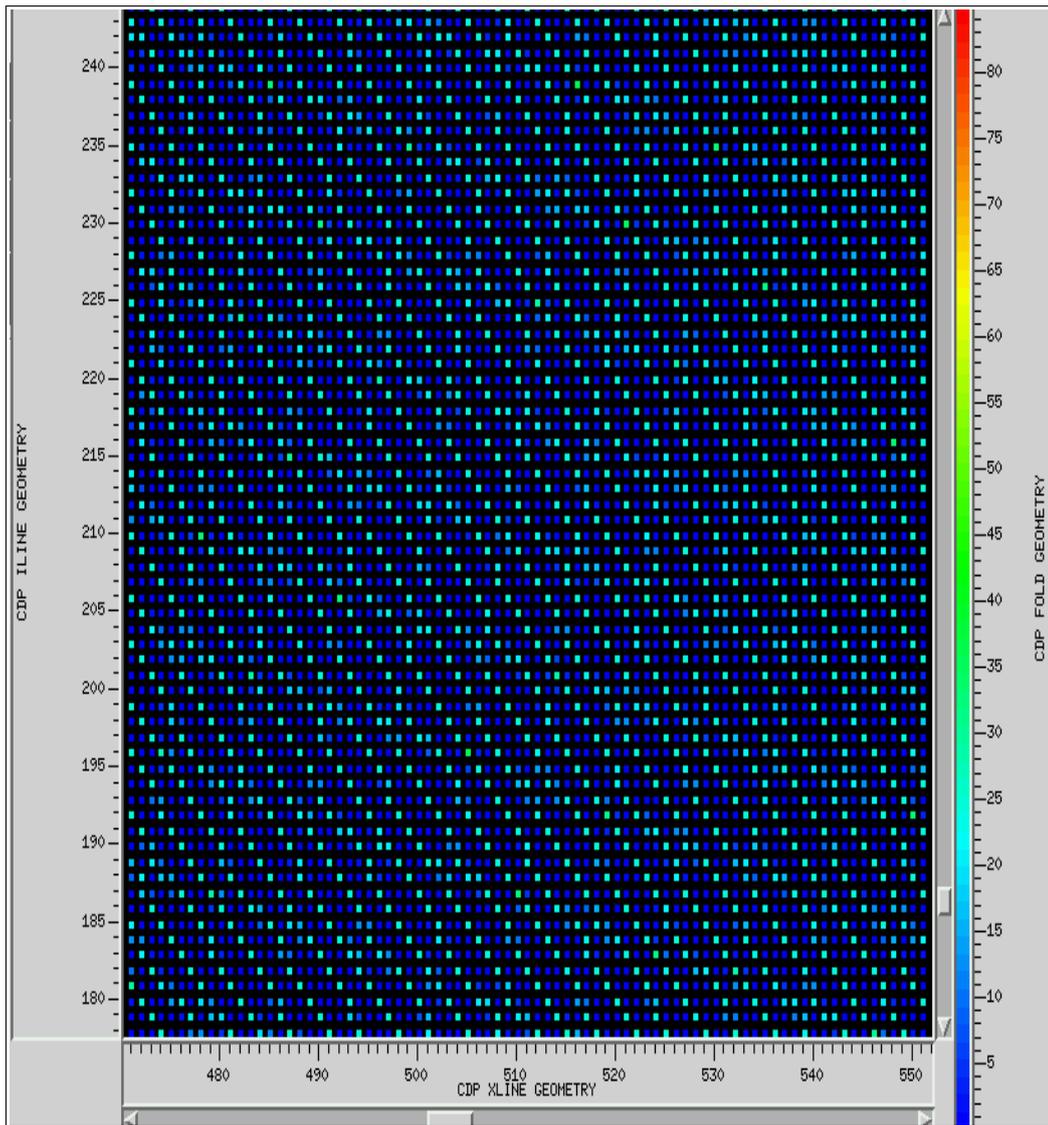


Figure 3– CDP Fold Plot for Merged 3D Grid over a part of the Raven 3D

Trace Edit

Remove bad or noisy traces from shot records interactively. Automatically edit high amplitude traces.

Static Computation

Statics calculated with a single layer refraction method.

For this refraction method, first breaks were picked on a refractor corresponding to the base of weathering.

Replacement Velocity
1900m/s

Final Processing Datum
0 m

Tie Refraction Statics to Upholes

The calculated receiver refraction statics were tied to the uphole value at the receiver or source locations closest to each uphole. 103 new upholes and 1184 existing upholes were used for tying.

Uphole statics were calculated and supplied by GAOG.

Methodology for tying refraction to upholes was as follows:

Calculate V_0 , V_1 and elevation of the base of weathering. (Sand dune model)

Use Mapinfo to grid these values over the 3D area

Use Mapinfo to extract V_0 , V_1 , and elevation of the base of weathering for all source and receiver points

Calculate datum statics (Modelled statics) using these extracted values

Locate receiver and source points closest to each uphole

Calculate the difference at these closest points between modelled statics and refraction statics

Interpolate difference over the whole survey area.

Add the interpolated difference to refraction statics to get the tied refraction static

Initial static corrections were applied to a floating datum. Survey datum is 0m MSL.

Phase Correction

A filter was applied to convert zero phase correlated data to minimum phase for spiking deconvolution.

Gain Recovery

Amplitude recovery using a time-power constant.

Gain = $t^{1.5}$ $t=time$

Surface Consistent Amplitude Scaling

Scalars were calculated and applied to common shot and common receivers to correct for their amplitude variations. This is required for preservation of true amplitudes, where no windowed scaling is to be applied. Corrections were calculated in a surface consistent manner with the solution calculated for Source, Receiver and Offset components. However only the Source and Receiver components were applied. The design window for the surface consistent scaling was a single large window the same as the deconvolution design window.

Deconvolution

A surface consistent spiking deconvolution with an operator length of 160ms was used to deconvolve the data. The deconvolution design window was defined as follows:

| Offset (m) | Time (ms) |
|------------|-----------|
| 0 | 340-2500 |
| 2240 | 1400-2600 |

As the phase of the input data is minimum phase, the application of deconvolution should produce a wavelet that is tending towards zero phase.

Velocity Analysis (1st Pass)

Velocities were picked using the ProMAX Interactive Velocity Picking package (IVA). IVA uses velocity spectra, moved out gathers and stacked panels to assist in a careful interpretation of stacking velocities. As the velocity function is altered, revised gathers and stacks are produced until optimized stacking velocities are achieved.

Velocities were picked at 1000m intervals. Each panel consisted of 11 CDPs stacked using 11 velocity functions centred around the regional velocity function.

Residual Static Calculation and Application (1st Pass)

Surface consistent residual statics were calculated and applied using Maximum Power Autostatics. Pilot or reference traces were formed for 1200ms time gates following structure by flattening all traces along the autostatics horizon, chosen using main seismic events. Traces for the pilot were collected over an area of 5 inlines and 5 crosslines. These traces are summed to form a single pilot trace. Each trace from the active CDP is time shifted relative to the pilot trace and summed with it. The power of the stack is measured for each time shift. This shift-power trace is then summed with other traces having the same shot and receiver in their respective domains.

After the shift spectra have been calculated for the entire volume and summed in the Receiver/Shot domains, time shifts are picked at the maximum of the power shift spectra and stored as Static Values. The pilot stack is updated and the process repeated for a number of iterations. In this case calculations were conducted for 4 iterations or until the RMS of the change in the computed statics was less than .05, using a maximum static shift of +/-20ms. A temporary filter of 15-40 Hz was applied to the input gathers to optimize results.

Velocity Analysis (2nd Pass)

Velocities were picked using the ProMAX interactive velocity picking package (IVA). IVA uses velocity spectra, moved out gathers and stacked panels to assist in a careful interpretation of stacking velocities. As the velocity function is altered, revised gathers and stacks are produced until optimized stacking velocities are achieved.

Velocities were picked at grid locations not more than 0.5 km apart. Each panel consisted of 9 CDPs (1 inline by 9 crossline cmp gathers) stacked using 11 velocity functions centred around a guide function.

Residual Statics Calculation and Application (2nd Pass)

Surface consistent residual statics were calculated and applied using Maximum Power Autostatics. Pilot or reference traces were formed for 1200ms time gates following structure by flattening all traces along the autostatics horizon, chosen using main seismic events. Traces for the pilot were collected over an area of 5 inlines and 5 crosslines. These traces are summed to form a single pilot trace. Each trace from the active CDP is time shifted relative to the pilot trace and summed with it. The power of the stack is measured for each time shift. This shift-power trace is then summed with other traces having the same shot and receiver in their respective domains.

After the shift spectra have been calculated for the entire volume and summed in the Receiver/Shot domains, time shifts are picked at the maximum of the power shift spectra and stored as Static Values. The pilot stack is updated and the process repeated for a number of iterations. In this case calculations were conducted for 4 iterations or until the RMS of the change in the computed statics was less than .05, using a maximum static shift of +/-20ms. A temporary filter of 15-40 Hz was applied to the input gathers to optimize results.

CDP Trim Statics

A pass of CDP consistent trim statics was run using an FXY decon-filtered volume as the external pilot. A maximum shift of +/-8ms was allowed on gates that encompassed the main seismic events (between 600-3000ms).

Post Stack Migration Processing Flow

Normal Moveout Correction

Dynamic corrections were applied to the data using the following formula.

$$T_x^2 = T_0^2 + \frac{x^2}{v^2}$$

T_x = time at offset x

T_0 = time at zero offset

x = offset of the trace

v = stacking velocity at time T_0

Mute

A mute was applied to eliminate refractors and stretch caused by normal moveout corrections. The mute applied was a 30% stretch mute.

AGC

AGC was applied, using 500 ms windows for the initial post stack migration but not applied for PSTM.

CDP Stack

Traces within a common midpoint gather were summed. The post stack trace was scaled by the square root of the sum of fold for each sample in the trace.

Final Datum Shift

Stack was shifted from processing datum to final datum (0m A.S.L.).

Phase Shift 3D Time Migration

Migration using a full 3D FD time migration technique was undertaken on the final stack volume. Migration used 100 % of the smoothed 2nd pass velocities. Maximum dip migrated was 90 degrees.

Spectral Whitening

The frequency spectrum of the migrated volume were balanced using zero phase spectral whitening. A sliding scalar length of 250ms was divided up into 2 frequency panels encompassing 3/8-90/100 Hz.

FXY Deconvolution Noise Attenuation

FXY deconvolution was applied to data to remove random noise. An equal amount of the original data was mixed in to the output data.

FXY Decon Parameters

Horizontal prediction window 3X3 traces

300ms gate length with 100ms taper added to edges

Bandpass Filter

Application of an Ormsby bandpass filter with corner frequencies 5/10-80/100 Hz.

PSTM Processing Flow

Input gathers to the PSTM processing flow consisted of deconvolved gathers with Surface Consistent residual and trim statics applied. NMO is not applied prior to PSTM.

TFD (Time Frequency Domain) Noise Attenuation

Noise is attenuated in the Time - Frequency Space when comparing amplitude levels to adjacent traces and reducing high and spurious values. Parameter values used were:

| | |
|---------------------------|----|
| Number of frequency bands | 64 |
| Traces in analysis window | 24 |
| Threshold multiplier | 20 |

A relatively high threshold multiplier value was used so only very high amplitudes were attenuated and good reflection data was passed through the process without attenuation.

Surface Consistent Amplitude Scaling (2nd iteration)

Scalars were calculated and applied to common shot and common receivers to correct for their amplitude variations. Corrections were calculated in a surface consistent manner with the solution calculated for Source, Receiver and Offset components. However only the Source and Receiver components were applied. The design window for the surface consistent scaling was a single large window, 350 to 2500 milliseconds, on the near offsets.

Spike and Noise Burst Attenuation

High amplitude spikes and noise bursts are attenuated prior to PSTM. The spike detection threshold was set to 5 times the rms amplitude average and a window of 100 ms was used for noise burst attenuation.

Bandpass Filter

A 5-90 Hz bandpass filter was applied to remove any noise outside the sweep frequency range prior to PSTM.

3D Pre-Stack Time Migration (PSTM)

A Kirchhoff 3D prestack time migration approach was used to migrate prestack. All of the long wavelength remaining datum statics are applied to the data, shifting it from floating datum to the final flat processing datum of 0 MSL. Gain recovery was reversed on input, high amplitude anomalous traces were excluded and the data was resampled to a 4ms sample rate. An aperture distance of 1500m and 10% stretch mute were used on 24 offset volumes. Offset bins were evenly spaced 100 metres apart. Data were re-collected into CDP gathers following the PSTM. 100% of 2nd Pass velocities corrected to datum were used for this migration.

The initial migration resulted in noisy data over the area of the Raven 3D. This was a result of the uneven fold distribution for this survey when gridded onto the Spinel grid. To overcome this problem the Raven 3D data was assigned to a 20 X 40 metre bin grid prior to PSTM. This grid was aligned to source and receiver lines as recorded for the Raven 3D and resulted in regular fold for each bin. Radon filtering, NMO and muting was applied prior to stack. The output volume was regridded, (rotated and interpolated) to the Spinel grid post stack prior to summing the two data volumes to form a single merged volume.

PSTM gathers are archived as two separate datasets with the Spinel and Paranta surveys put out as a single dataset gridded to the Spinel grid and the Raven 3D output on the Raven grid with 20x40 metre bins. The extents of the Raven grid are :

Corner Points 3D Grid

| <i>In-line</i> | <i>Cross-line</i> | <i>X co-ordinate</i> | <i>Y co-ordinate</i> |
|----------------|-------------------|----------------------|----------------------|
| 1 | 1 | 369837.75 | 6898222.0 |
| 1 | 351 | 375943.66 | 6891955.5 |
| 240 | 1 | 378394.91 | 6906562.5 |
| 240 | 351 | 384501.81 | 6900296.0 |

Some time after the completion of the PSTM and after a preliminary final migrated volume was sent to the GAOG, Velseis discovered an error in the PSTM flow where a fractional amount of the final static shift to datum was not applied prior to PSTM. This resulted in each trace being not fully corrected up to +/- 1ms. The stack after PSTM was slightly degraded by the error but

structure was minimally affected because of the zero averaging of this error. PSTM was rerun correctly with a resulting delay in delivery of six weeks.

Velocity Analyses on PSTM Data

PSTM data was shifted back to floating datum prior to picking PSTM velocities.

The PSTM velocity model was reversed prior to output of selected velocity locations on a 0.5km x 0.5km grid. Velocities were picked using the ProMAX Interactive Velocity Picking package. These velocities were then used to stack the production PSTM volume.

Normal Moveout Correction

Dynamic corrections were applied to the data using the following formula.

$$T_x^2 = T_0^2 + \frac{x^2}{v^2}$$

T_x = time at offset x

T_0 = time at zero offset

x = offset of the trace

v = stacking velocity at time T_0

Mute

A mute was applied to eliminate refractors and stretch caused by normal moveout corrections. The mute applied was a 30% stretch mute.

Radon Filter

A radon filter was applied for the suppression of multiples and other noise present on the PSTM gathers. Modelled multiples were subtracted from the input seismic data. Radon was successful in improving the signal to noise on the PSTM gathers but had little effect on the stacked image.

Stack

PSTM traces were stacked to produce a full volume for both the Spinel and Raven datasets. The Raven volume was regridded to the Spinel grid and summed.

Spectral Whitening

The frequency spectrum of the migrated volume was balanced using zero phase spectral whitening. A sliding scalar length of 250ms was divided up into 2 frequency panels encompassing 3/8-90/100 Hz.

Post Stack 3D CRS Stack

The process, common reflection stack, was used to enhance the signal of the 3D Volume. This was required as signal below the strong Toolachee coals is very weak and disrupted by acquisition footprint noise that interfered with the autopicking of horizons by GAOG interpretation software .

The process first determines local dip for the stack volume before summing along dip over a predetermined aperture to produce a new value for each trace sample.

The dip search was limited to a maximum dip of 0.3 ms/m with an aperture of 90 metres.

A time-variant Aperture was adopted for the CRS operator:

| Time (ms) | Aperture (m) |
|-----------|--------------|
| 0 | 30 |
| 1000 | 50 |
| 2000 | 90 |
| 3000 | 110 |

Bandpass Filter

Application of a time variant Butterworth bandpass filter.

| Time | Freq (lo/slope-high/slope) |
|------|----------------------------|
| 0 | 10/18-70/72 |
| 1800 | 10/18-70/72 |
| 2100 | 10/18-60/72 |

Fold Compensation

Each trace was scaled to compensate for variable fold between the different surveys and over the overlap areas. The fold was smoothed to take out short period variability before each trace was scaled by the inverse of this value. The length of smoothing was 9x9 bins.

Minimum fold was set to 10 in the Spinel, Paranta areas and 8 in the Raven area to limit overcompensation in the low fold areas at the survey edges.

TESTING

Most processing parameters were kept the same as the 2006 Paranta survey where extensive testing was undertaken. PSTM parameters such as aperture and stretch was retested and finally set to values that both improved the image quality and run time on the large dataset.

A new process, CRS stack, was applied post stack to improve the signal to noise, particularly on the lower permian section.

Archiving

1) SEGY Files Trace Headers as per PIRSA standard

LTO/C-033 spinel_trim_mig_stk.sgy (Filtered Migrated CDP Trim Volume)
 spinel_final_pstm_stk.sgy (Final Filtered PSTM Volume)
 spinel_raw_pstm_stk.sgy (Raw PSTM Volume)

LTO is in tar format

LTO/C-032 spinel_pstm_radon_gathers.sgy
 raven_pstm_radon_gathers.sgy

LTO is in tar format

Three copies of DVD-452 Vols 1-3, have been provided:
Trace headers as per PIRSA standard

DVD-452 Disk 1 final_pstm_stk_p1.sgy (Final PSTM Volume Part 1)
DVD-452 Disk 2 final_pstm_stk_p2.sgy (Final PSTM Volume Part 2)
DVD-452 Disk 3 final_pstm_stk_p3.sgy (Final PSTM Volume Part 3)

One copy to be supplied to PIRSA

5 additional DVD's with sub-sets of the final PSTM volume were produced for partners Beach, Blue Energy, Enterprise Energy, Rawson Resources and Magellan Petroleum.

Two Copies of DVD-460 have been provided

Processing Report

ASCII Files containing
Source and Receiver Statics
Final CDP Datum Statics
CDP bin co-ordinates
Source and receiver co-ordinates and elevations
Residual Statics
Source and Receiver Elevations
2nd pass Velocities at Floating Datum
Smoothed 2nd pass Velocities to Final Datum
PSTM residual velocities at Floating Datum
spinel_3d_control_upholes (Excel format)

Powerpoint Presentations of Parameter Tests and QC

CGM+ file inline 200-2200(200) and crossline 200-1200(200)

Appendix 1

Software and Hardware Configuration

These data were processed by Velseis Processing Pty. Ltd., Brisbane, Australia.

Velseis Processing utilizes ProMAX 2D/3D processing software. This is a totally interactive system allowing the user to view data processing at each stage, producing a final result of the highest quality.

The software executes on a quad processor Sparc 20 Sun workstation and a 32 node, dual CPU/node linux cluster. Data is viewed via X terminals networked to the main system, each terminal has a high definition monitor to enable accurate representation of the digital data in pixel form.

The overall efficiency of the system enabled processing to be completed within the allotted time frame.

Plots were generated via a 300 dpi laser plotter. This was used to generate paper plots for QC purposes as well as the ability to provide final filmed copies.

Velseis Processing is committed to offering a premium product, the software development undertaken by ProMAX resulting in processing algorithms which are state of the art.

Appendix 2

3D CRS Noise Attenuation

ProMAX has recently added a suite of processes that implement Common Reflection Surface (CRS) processing on Pre and Post stack data. CRS provides tools to bring structural information into time processing. Dip is used to intelligently mix data across bins to produce better regularized gathers and improve signal to noise ratio. The CRS processing was applied to attenuate post migration noise which arose from amplitude variations due to an “acquisition footprint”.

In the case of the Spinel 3D we have applied CRS post stack using two processes, CRS Zo Search and CRS Stack. CRS Zo Search is a compute-intensive process used to find dip and azimuth of reflections in a zero offset stacked volume. The program can control the maximum dip to search as well as the dip calculation aperture and the size of the semblance window. Results are stored in the ProMAX database for future application and can be QC'd using Velocity Viewer Editor which overlays the results on top of the seismic data.

We have used CRS Stack to sum traces falling within an aperture around each CDP. This summation is done intelligently, correcting for dip as defined by CRS Zo search. The aperture for summation can be time variant. The results of CRS on the PSTM volume were impressive and superior to Fkxky filtering or Fxy deconvolution. CRS was applied after the spectral whitening and removed much of the linear noise that was enhanced by spectral whitening. It improves the horizon autopicking used by many of the interpretation packages. Figure 4 shows the results of CRS on Inline 1505.

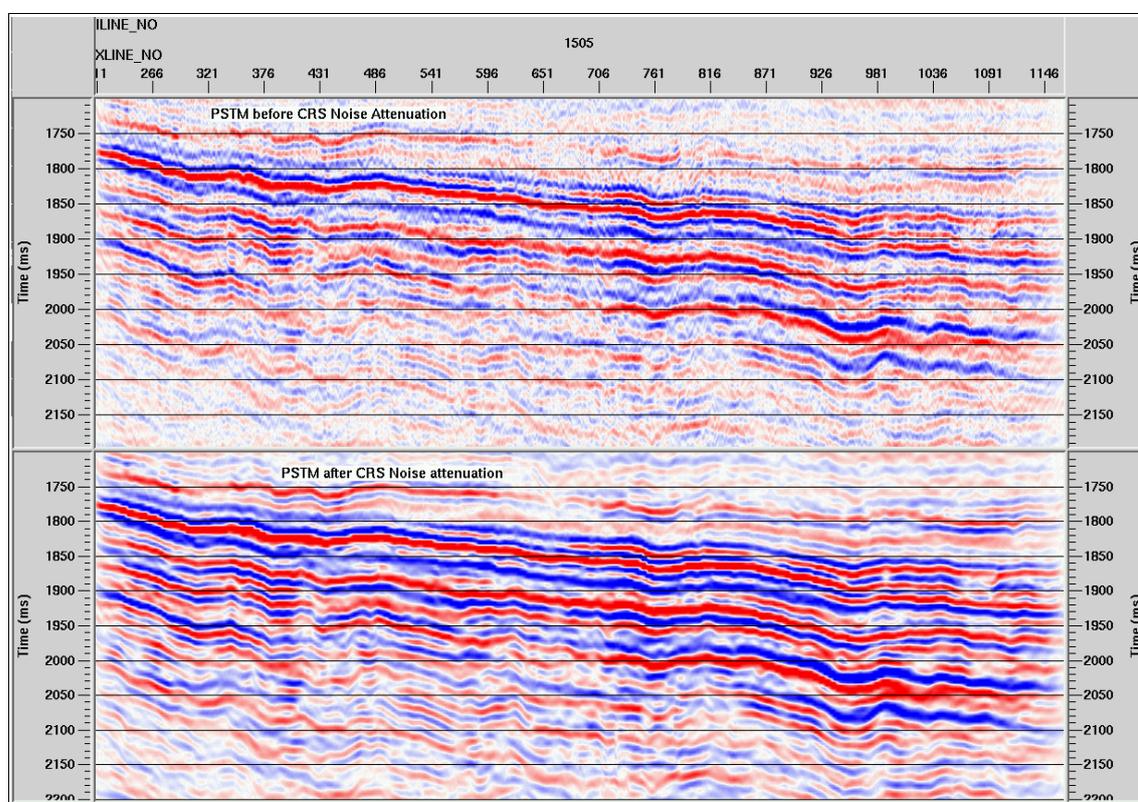
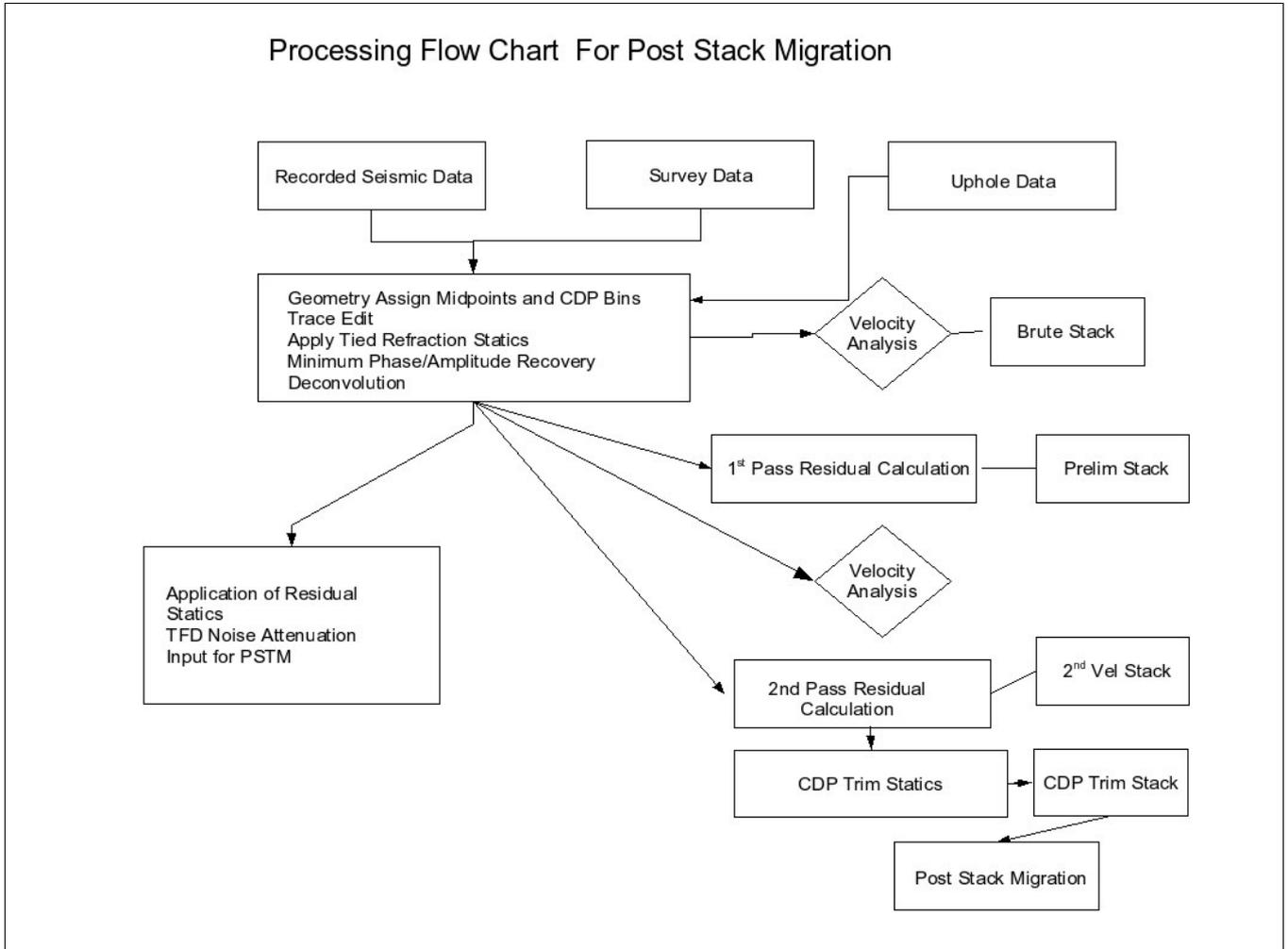


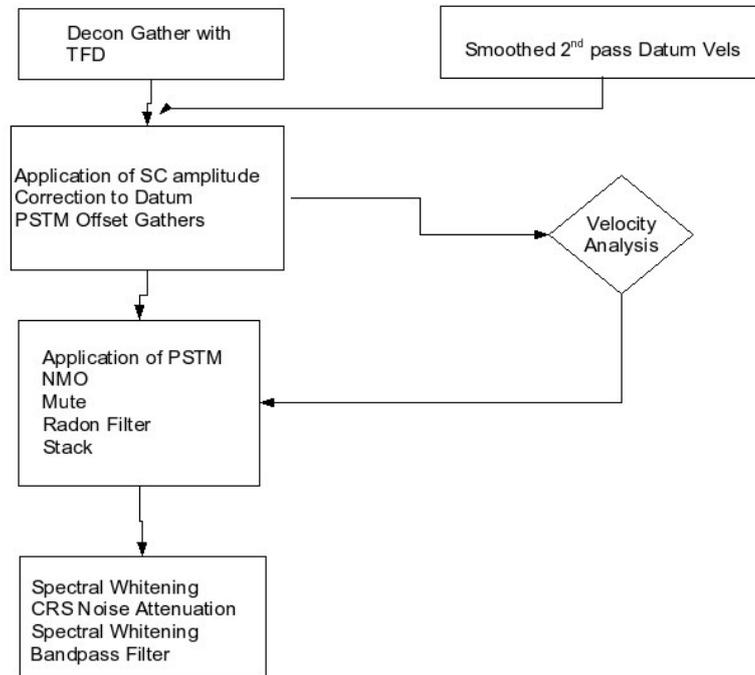
Figure 4– CRS Comparison

Appendix 3

3D Processing Flow Charts



Processing Flow Chart For Pre Stack Time Migration



Velocity Data Pty Ltd



Uphole Survey Report
on the
Spinel 3D (PEL106) Seismic Survey
for
GAOG

March 2007

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Introduction

The following report covers the **2007 Spinel Seismic Survey Uphole Program** conducted for Beach Petroleum.

The uphole acquisition program was performed by Velocity Data Pty Ltd in conjunction with a 3D seismic reflection survey conducted by Terrex Seismic in PEL 106 in South Australia. One Hundred and Three upholes were logged between the 10th and the 27th of March, 2007.

Personnel and Equipment

The drilling was undertaken by Scanlon Drilling Limited of Kalgoorlie, WA and the uphole recording by Velocity Data Pty Ltd of Toowoomba, QLD.

The Velocity Data logging technician involved on the project was Nathan Jones. The operations were based in the Scanlon Drilling mobile fly camp located about 24km East of the Terrex Main Crew camp, and supported by the office based in Bombala N.S.W.

The holes were recorded utilizing a Toyota Hi-lux 4WD with a 120kg hydraulic weight drop unit. Velocity Data has developed an inhouse Shotput Acquisition Recording and Processing (SARP) system which is a windows based, multi-channel, software program utilizing a 24 bit A-D digitizer. Hole locations were checked using a hand held Garmin GPS.

Data Acquisition

As this entire area is sand dune country, mud drilling was used throughout. Water was obtained from both the Jack Lake Bore and the Welcome Lake Turkeys Nest.

The soil types encountered in the drilling program included; sand, sandy clay, shaly clay and clay. The terrain in this prospect was mainly sand dune and claypan country. Access throughout the prospect was average, as there were many large dunes throughout the prospect.

The uphole logging was relatively straight forward. The holes were loaded as soon as drilling was completed. The rig waited on site till the probe reached TD. As has become standard practise a step increment of 2 metres was used.

The sub-weathering velocity was in the range of 1750 to 2891m/sec. Depths of weathering was in the range of 0-2 to 26m, the low weathering depths are due to upholes being located next to salt pans and low lying clay flats. Hole depths were in the range of 30 to 54m, due to the undulation between the sand dunes.

Holes were refilled with drill cuttings (to completed hole depth where possible) after recording and sealed off with two hole caps near the surface to prevent future subsidence. Values were manually picked in the field after each hole to ensure depth of weathering was obtained.

A Location and Weathering Summary (**Appendix A**) is appended to this report along with the prospect Uphole Plot copies (**Appendix B**). (A Preliminary disk including PDFs of plots has been forwarded direct from the field to GAOG via their Representative).

A disk containing FRL, FBR, SEGY and TXT files along with PDF files of each plot accompany this report.

Appendices

A: Location Log and Weathering

| Hole # | Line | Station | Easting | Northing | Elevation | Lx | Wx | Vx |
|--------|-------|----------|---------|----------|-----------|----|----|------|
| 1 | S5156 | 51561820 | 371763 | 6896342 | 22.68 | 34 | 12 | 1954 |
| 2 | | | 372870 | 6896794 | 38.85 | 46 | 24 | 1761 |
| 3 | S5100 | 51001836 | 369515 | 6896952 | 24.76 | 34 | 10 | 1961 |
| 4 | S5156 | 51561860 | 371753 | 6897955 | 24.66 | 34 | 12 | 1945 |
| 5 | S5116 | 51161868 | 370173 | 6898232 | 23.64 | 28 | 10 | 1973 |
| 6 | S5092 | 50921900 | 369181 | 6899491 | 28.57 | 34 | 14 | 1869 |
| 7 | S5172 | 51721892 | 372355 | 6899217 | 23.64 | 28 | 10 | 1974 |
| 8 | S5124 | 51241900 | 370447 | 6899535 | 24.94 | 34 | 10 | 1954 |
| 9 | S5196 | 51961916 | 373242 | 6900210 | 22.38 | 28 | 6 | 2209 |
| 10 | S5172 | 51721932 | 372346 | 6900827 | 21.53 | 28 | 6 | 1924 |
| 11 | S5132 | 51321940 | 370752 | 6901125 | 23.04 | 28 | 8 | 1875 |
| 12 | S5092 | 50921948 | 369146 | 6901422 | 22.62 | 28 | 8 | 1938 |
| 13 | R1948 | 19485260 | 375871 | 6901514 | 20.54 | 40 | 8 | 1856 |
| 14 | S5204 | 52041956 | 373616 | 6901793 | 21.6 | 28 | 6 | 1943 |
| 15 | S5124 | 51241972 | 370407 | 6902412 | 21.45 | 28 | 6 | 1929 |
| 16 | S5316 | 53161972 | 378092 | 6902506 | 28.36 | 34 | 13 | 1932 |
| 17 | S5180 | 51801980 | 372654 | 6902744 | 30.41 | 34 | 12 | 2058 |
| 18 | S5356 | 53562004 | 379587 | 6903811 | 27.06 | 34 | 12 | 1972 |
| 19 | S5148 | 51482012 | 371373 | 6904015 | 23.48 | 28 | 8 | 1946 |
| 20 | S5204 | 52042012 | 373582 | 6904052 | 30.65 | 34 | 14 | 1893 |
| 21 | S5284 | 52842036 | 376785 | 6905050 | 34.7 | 40 | 19 | 2033 |
| 22 | S5012 | 50122037 | 365902 | 6904921 | 31.21 | 46 | 16 | 1826 |
| 23 | S5004 | 50042148 | 365479 | 6909375 | 21.03 | 28 | 6 | 1834 |
| 24 | S5076 | 50762052 | 368436 | 6905570 | 25.59 | 34 | 12 | 1794 |
| 25 | S5220 | 52202076 | 374033 | 6906612 | 26.06 | 34 | 10 | 1974 |
| 26 | S5012 | 50122092 | 365902 | 6907130 | 21.47 | 28 | 6 | 1853 |
| 27 | S5092 | 50922092 | 369033 | 6907170 | 20.45 | 28 | 6 | 1930 |
| 28 | S5332 | 53322092 | 378637 | 6907323 | 36.38 | 46 | 20 | 1947 |
| 29 | S5156 | 51562084 | 371643 | 6906901 | 44.87 | 52 | 26 | 2012 |
| 30 | S5268 | 52682124 | 376076 | 6908542 | 23.38 | 34 | 8 | 1924 |
| 31 | S5124 | 51242140 | 370317 | 6909115 | 28.4 | 34 | 14 | 1960 |
| 32 | S5156 | 51562148 | 371582 | 6909453 | 27.05 | 34 | 10 | 1966 |
| 33 | S5052 | 50522156 | 367516 | 6909718 | 28.35 | 34 | 10 | 2153 |
| 34 | S5204 | 52042156 | 373501 | 6909789 | 26.95 | 34 | 12 | 1942 |
| 35 | S5324 | 53242156 | 378316 | 6909876 | 28.51 | 34 | 10 | 1971 |
| 36 | S5100 | 51002180 | 369411 | 6910712 | 21 | 28 | 6 | 1955 |
| 37 | S5148 | 51482180 | 371260 | 6910732 | 28.85 | 34 | 14 | 1984 |
| 38 | S5268 | 52682196 | 376059 | 6911452 | 21.21 | 28 | 6 | 1948 |
| 39 | S5124 | 51242204 | 370452 | 6911674 | 23.38 | 28 | 8 | 1996 |
| 40 | S5164 | 51642220 | 371862 | 6912341 | 20.07 | 26 | 4 | 1927 |
| 41 | S5100 | 51002228 | 369288 | 6912622 | 21.43 | 28 | 6 | 1972 |
| 42 | S5212 | 52122236 | 373748 | 6913014 | 25.65 | 40 | 12 | 1753 |
| 43 | R2244 | 22445326 | 378347 | 6913390 | 21.99 | 28 | 4 | 2891 |
| 44 | R2252 | 22525164 | 371855 | 6913620 | 21.28 | 28 | 4 | 1896 |
| 45 | S5132 | 51322260 | 370477 | 6913930 | 20.52 | 28 | 12 | 1986 |
| 46 | R2260 | 22605443 | 383003 | 6914112 | 27.58 | 34 | 10 | 1985 |
| 47 | R2268 | 22685101 | 369309 | 6914212 | 17.26 | 28 | 2 | 2103 |
| 48 | S5220 | 52202276 | 374083 | 6914605 | 26.86 | 34 | 10 | 1956 |

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| | | | | | | | | |
|----|-------|----------|--------|---------|-------|----|-----|------|
| 49 | S5252 | 52522276 | 375373 | 6914640 | 23.45 | 28 | 8 | 1773 |
| 50 | R2292 | 22925364 | 379829 | 6915330 | 33.5 | 40 | 16 | 1785 |
| 51 | S5140 | 51402292 | 370868 | 6915206 | 22.83 | 28 | 6 | 1915 |
| 52 | R2300 | 23005171 | 372117 | 6915881 | 29.68 | 34 | 14 | 1966 |
| 53 | R2308 | 23085108 | 369581 | 6915838 | 20.49 | 28 | 6 | 2239 |
| 54 | S5220 | 52202308 | 374142 | 6915892 | 23.89 | 40 | 8 | 1966 |
| 55 | S5268 | 52682324 | 375988 | 6916561 | 25.35 | 34 | 12 | 1951 |
| 56 | S5124 | 51242347 | 372036 | 6917442 | 33.92 | 40 | 18 | 1956 |
| 57 | R2348 | 23485380 | 380441 | 6917567 | 33.06 | 34 | 16 | 1940 |
| 58 | R2364 | 23645100 | 369225 | 6918057 | 17.76 | 28 | 2 | 1865 |
| 59 | R2364 | 23645141 | 370858 | 6918079 | 24.1 | 28 | 8 | 1948 |
| 60 | S5252 | 52522388 | 375311 | 6919110 | 29.43 | 40 | 12 | 1965 |
| 61 | R2404 | 24045332 | 378498 | 6919809 | 22.49 | 26 | 4 | 1750 |
| 62 | S5180 | 51802396 | 372376 | 6919381 | 17.02 | 28 | 0-2 | 1999 |
| 63 | S5148 | 51482404 | 371054 | 6919704 | 34.31 | 40 | 18 | 2004 |
| 64 | S5108 | 51082420 | 369521 | 6920324 | 21.18 | 26 | 4 | 1941 |
| 65 | S5180 | 51802428 | 372396 | 6920677 | 18.19 | 28 | 0-2 | 1996 |
| 66 | S5268 | 52682452 | 375902 | 6921690 | 37.15 | 40 | 20 | 2042 |
| 67 | S5100 | 51002468 | 369185 | 6922227 | 21.08 | 28 | 4 | 1896 |
| 68 | S5204 | 52042500 | 373325 | 6923566 | 22.97 | 28 | 8 | 1950 |
| 69 | S5108 | 51082516 | 369603 | 6924167 | 23.49 | 28 | 10 | 2002 |
| 70 | R2532 | 25325141 | 370772 | 6924830 | 41.8 | 46 | 26 | 1853 |
| 71 | S5324 | 53242532 | 378235 | 6924925 | 22.94 | 28 | 6 | 1771 |
| 72 | S5100 | 51002548 | 369127 | 6925436 | 25.63 | 32 | 8 | 1937 |
| 73 | S5220 | 52202572 | 373922 | 6926441 | 22.31 | 28 | 4 | 1821 |
| 74 | R2604 | 26045164 | 371641 | 6927688 | 32.12 | 34 | 16 | 2003 |
| 75 | R2588 | 25885292 | 376793 | 6927134 | 22.65 | 28 | 6 | 1755 |
| 76 | R2604 | 26045365 | 379677 | 6927816 | 31.28 | 34 | 18 | 1973 |
| 77 | S5100 | 51002636 | 369077 | 6928953 | 20.71 | 28 | 0-2 | 2181 |
| 78 | S5268 | 52682652 | 375786 | 6929684 | 23.32 | 28 | 6 | 1753 |
| 79 | R2652 | 26525317 | 377731 | 6929708 | 24.48 | 28 | 8 | 1941 |
| 80 | R2652 | 26525404 | 381265 | 6929752 | 25.24 | 32 | 12 | 1801 |
| 81 | R2668 | 26685172 | 371951 | 6930264 | 21.46 | 28 | 4 | 1926 |
| 82 | S5140 | 51402684 | 370649 | 6930897 | 21.53 | 28 | 4 | 1957 |
| 83 | S5212 | 52122684 | 373525 | 6930920 | 21.75 | 28 | 4 | 1936 |
| 84 | R2692 | 26925100 | 369061 | 693178 | 20.61 | 28 | 0-2 | 1996 |
| 85 | R2700 | 27005180 | 372243 | 6931562 | 33.16 | 34 | 12 | 1773 |
| 86 | S5284 | 52842700 | 376400 | 6931622 | 27.84 | 34 | 10 | 1958 |
| 87 | S5148 | 51482716 | 370961 | 6932165 | 26.96 | 28 | 10 | 1964 |
| 88 | S5252 | 52522716 | 375099 | 6932238 | 24.59 | 34 | 8 | 1969 |
| 89 | S5100 | 51002732 | 369023 | 6932783 | 21.49 | 28 | 4 | 1966 |
| 90 | S5204 | 52042740 | 373174 | 6933168 | 22.07 | 26 | 4 | 1915 |
| 91 | S5180 | 51802756 | 372269 | 6933808 | 23.52 | 28 | 8 | 2057 |
| 92 | S5236 | 52362756 | 374457 | 6933816 | 29.03 | 34 | 14 | 2275 |
| 93 | S5292 | 52922780 | 376690 | 6934815 | 23.18 | 28 | 6 | 1924 |
| 94 | S5204 | 52042788 | 373146 | 6935070 | 22.76 | 26 | 6 | 1915 |
| 95 | S5260 | 52602796 | 375388 | 6935422 | 24.67 | 28 | 8 | 1962 |
| 96 | S5284 | 52842820 | 376356 | 6936406 | 35.25 | 40 | 14 | 1968 |
| 97 | S5108 | 51082828 | 369296 | 6936626 | 21.64 | 28 | 4 | 1795 |
| 98 | S5244 | 52442836 | 374724 | 6937040 | 24.04 | 28 | 6 | 1942 |
| 99 | S5148 | 51482804 | 370799 | 6935691 | 23.05 | 28 | 2 | 1894 |

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| | | | | | | | | |
|-----|-------|----------|--------|---------|-------|----|----|------|
| 100 | S5156 | 51562852 | 371283 | 6937617 | 28.88 | 28 | 10 | 1760 |
| 101 | S5100 | 51002884 | 368960 | 6938870 | 22.78 | 28 | 6 | 2141 |
| 102 | R2884 | 28845204 | 373097 | 6938944 | 19.93 | 28 | 4 | 1919 |
| 103 | S5292 | 52922876 | 376634 | 6938642 | 25.38 | 28 | 8 | 2659 |

| | | | | |
|----------------|--|-------|------|---------|
| Minimum | | 26 | 0-2 | 1750 |
| Maximum | | 54 | 26 | 2891 |
| Average | | 31.77 | 9.62 | 1956.76 |