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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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TABLE OF CONTENTS

1. INTRODUCTION	4
2. FIELD OPERATIONS	7
2.1. Introduction.....	7
2.2. Permitting	19
2.3. Cultural Heritage Clearance	20
2.4. Line Preparation and Survey	21
2.5. Environment	24
2.6. Health and Safety	25
2.7. Recording Operations.....	25
2.8. Uphole Program	38
2.9. Rehabilitation and de-permitting	41
3. DATA PROCESSING	43
4. CONCLUSIONS AND RECOMMENDATIONS	49

LIST OF FIGURES

Figure 1. Spinel 3D location map	5
Figure 2. Spinel 3D, Paranta 3D and Raven-Moonanga 3D surveys, showing source and receiver line layouts (in red and blue, respectively)	6
Figure 3. Spinel 3D survey, showing topography and new upholes.....	7
Figure 4. Spinel 3D survey logistics map	22
Figure 5. Spinel 3D vibrator array	27
Figure 6. Spinel 3D geophone array	27
Figure 7. Spinel 3D offset distribution diagram	28
Figure 8. Spinel 3D azimuth distribution diagram.....	28
Figure 9. Spinel 3D recording panels.....	35
Figure 10. Spinel 3D subsurface coverage map	36
Figure 12. Spinel 3D offset population	45
Figure 13. Spinel 3D, inline 797, before and after CRS	46
Figure 14. Spinel 3D farmin blocks	48

LIST OF TABLES

Table 1. Acquisition Summary	8
Table 2. Environmental Monitoring Points	23
Table 3. Spinel 3D Survey Control Points.....	23
Table 4. Safety Statistics	25
Table 5. Acquisition Parameters	26
Table 6. Field Tape Listing.....	37
Table 7. Uphole Data Summary.....	39
Table 8. Processing Sequence	43
Table 9. Data archived for the Spinel 3D Survey	47

TABLE OF ATTACHMENTS

LIST OF APPENDICES

Appendix 1	Field Operations Report (B. Beer)
Appendix 2	Seismic Acquisition Report (Terrex)
Appendix 3	Line Surveying Report (Dynamic Satellite Surveys)
Appendix 4	Seismic Processing Report (Velseis)
Appendix 5	Environmental Impact Report (B. Beer) (Removed - Separate Document)
Appendix 6	Uphole Survey Report (Uphole Plots Data Stored Separately)
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.

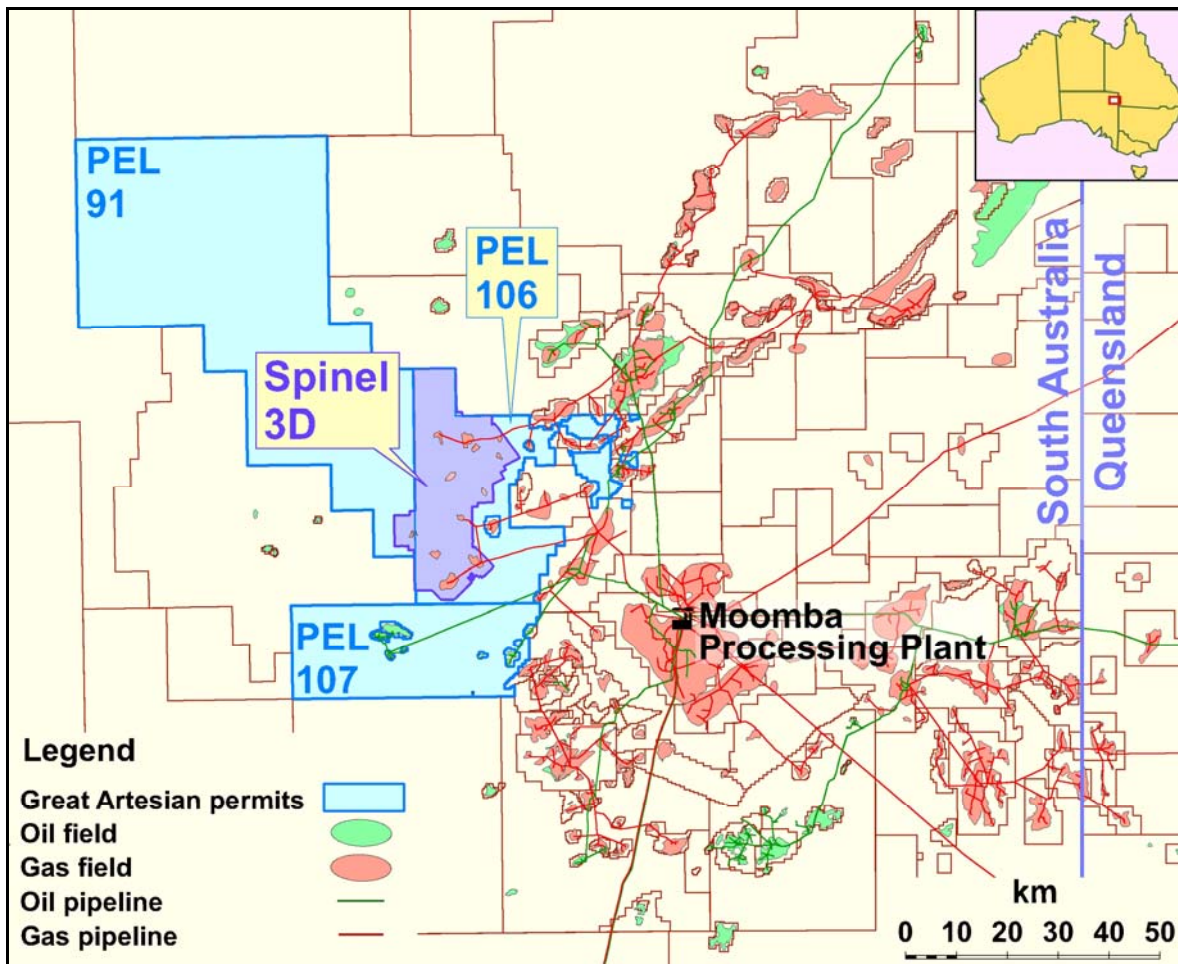


Figure 1. Spinel 3D location map

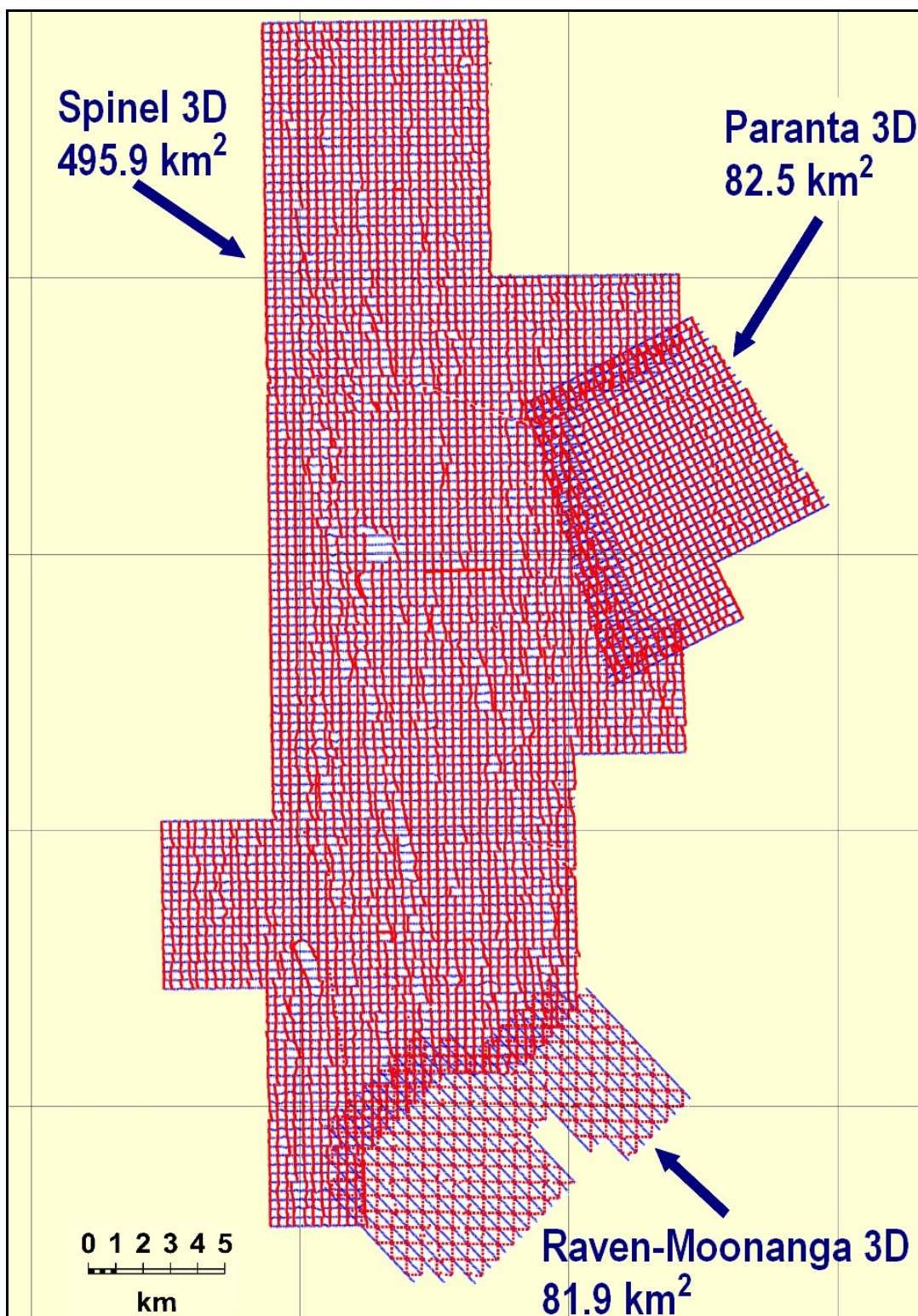


Figure 2. Spinel 3D, Paranta 3D and Raven-Moonanga 3D surveys, showing source and receiver line layouts (in red and blue, respectively)

Table 1. Acquisition Summary

Date	Swath#	Rec. Line to	Rec Line	Source Line to	Source Line	VP to	VP	#Traverses	# Production VP's	Overlap VP's	Total VP's 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 VP's	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.

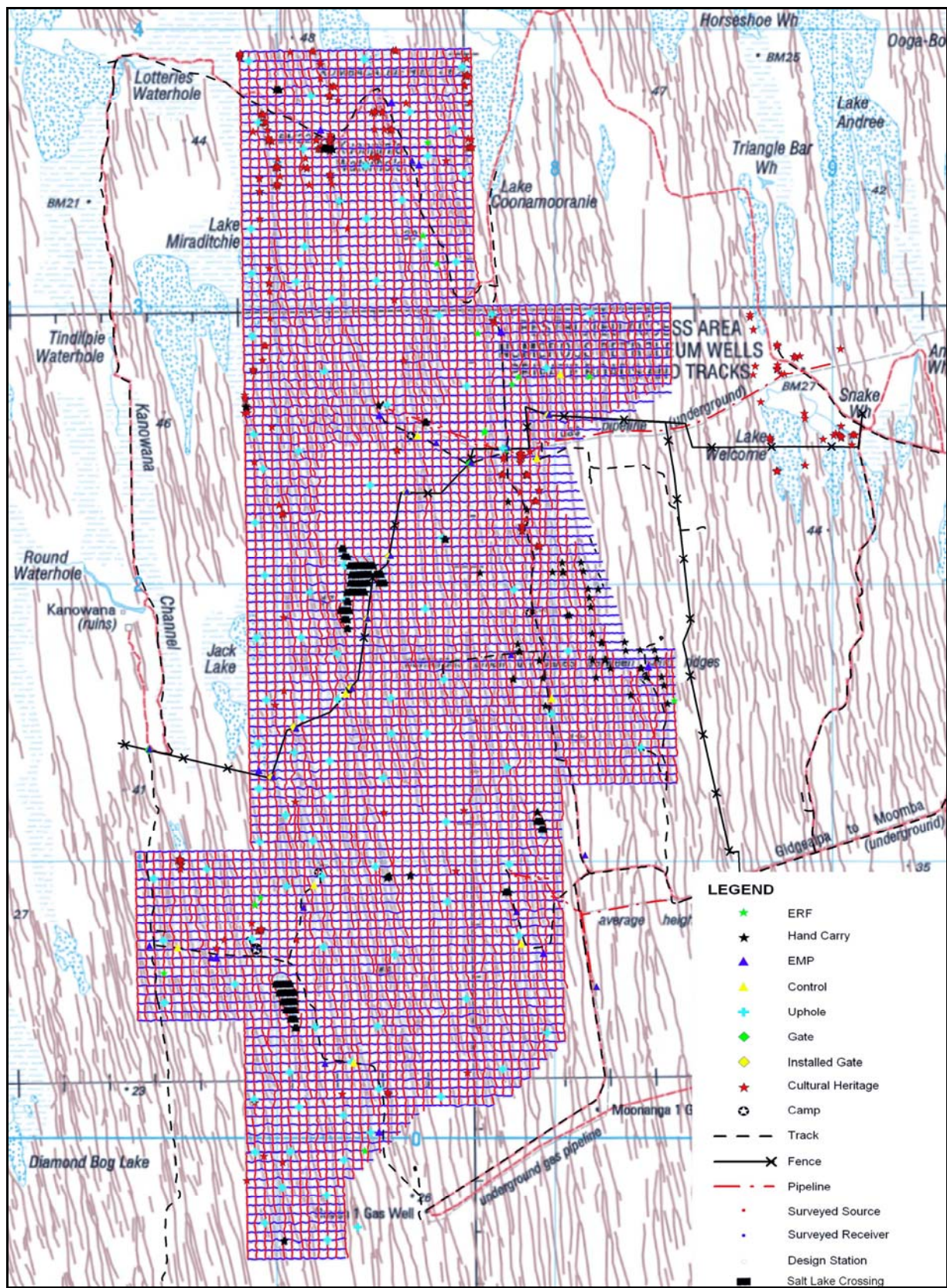


Figure 4. Spinel 3D survey logistics map

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.

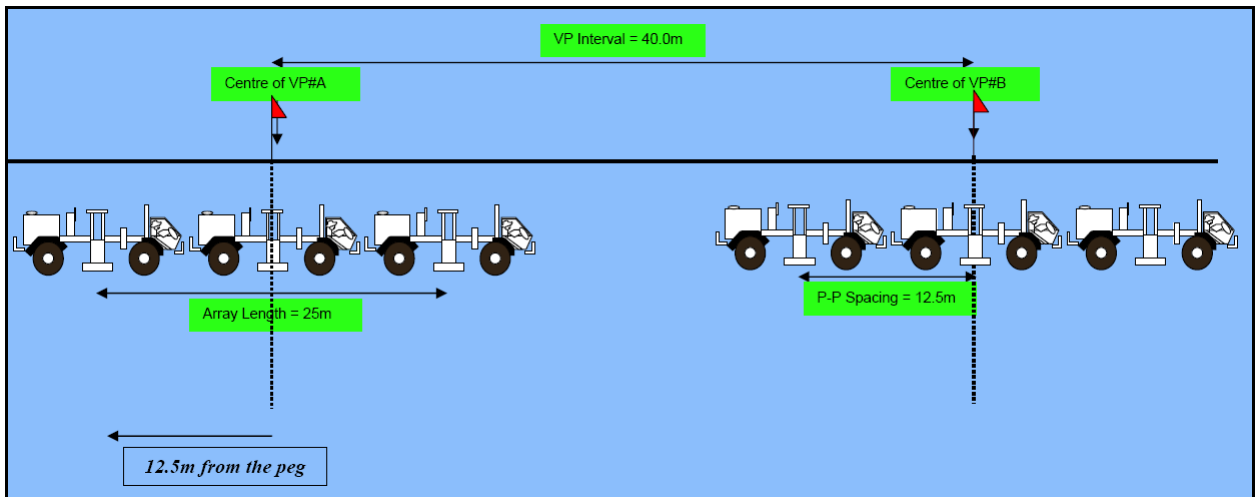


Figure 5. Spinel 3D vibrator array

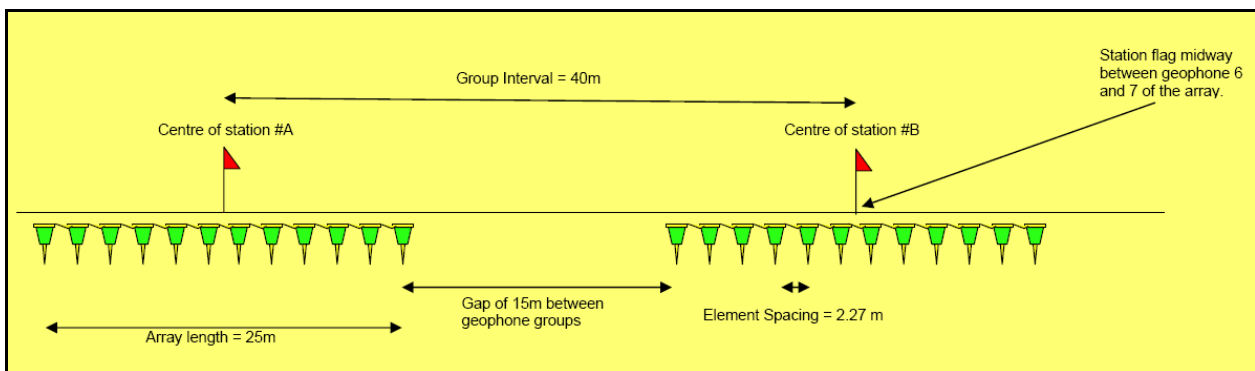


Figure 6. Spinel 3D geophone array

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

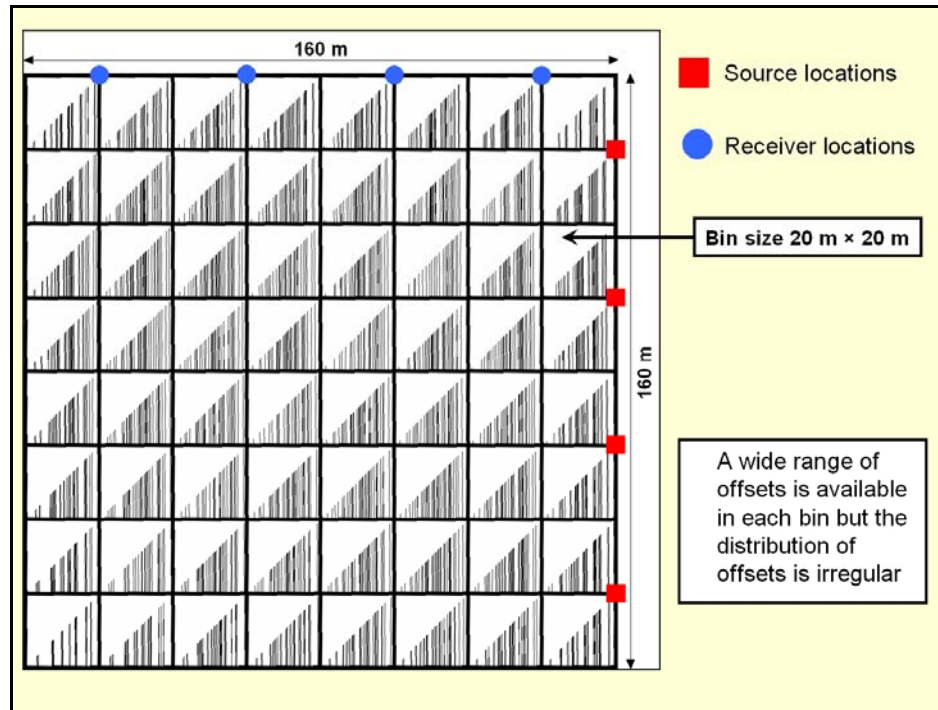


Figure 7. Spinel 3D offset distribution diagram

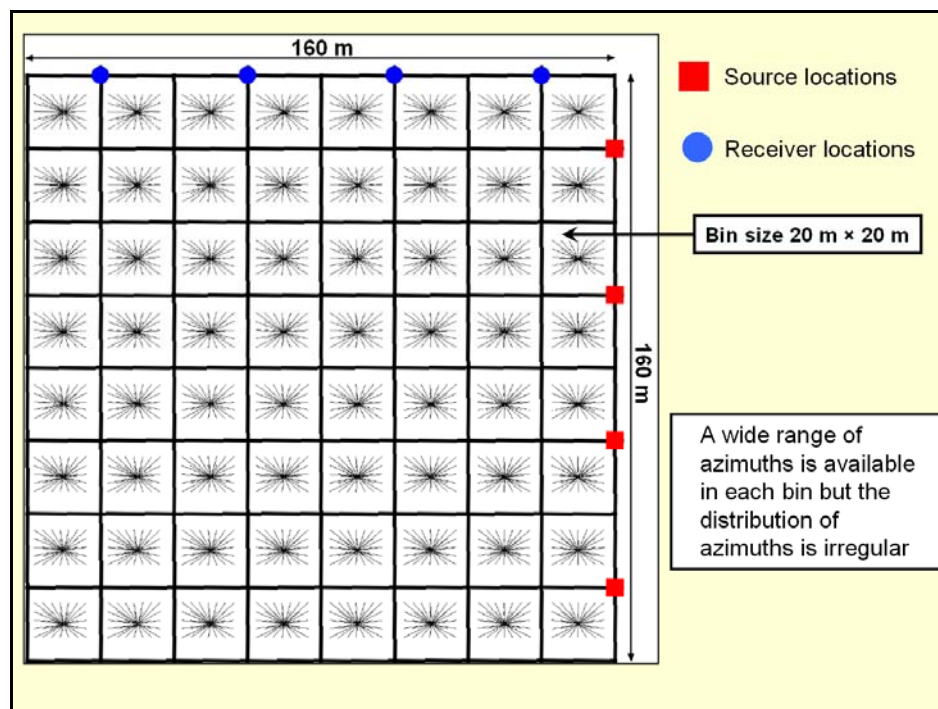


Figure 8. Spinel 3D azimuth distribution diagram

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 (recorded 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

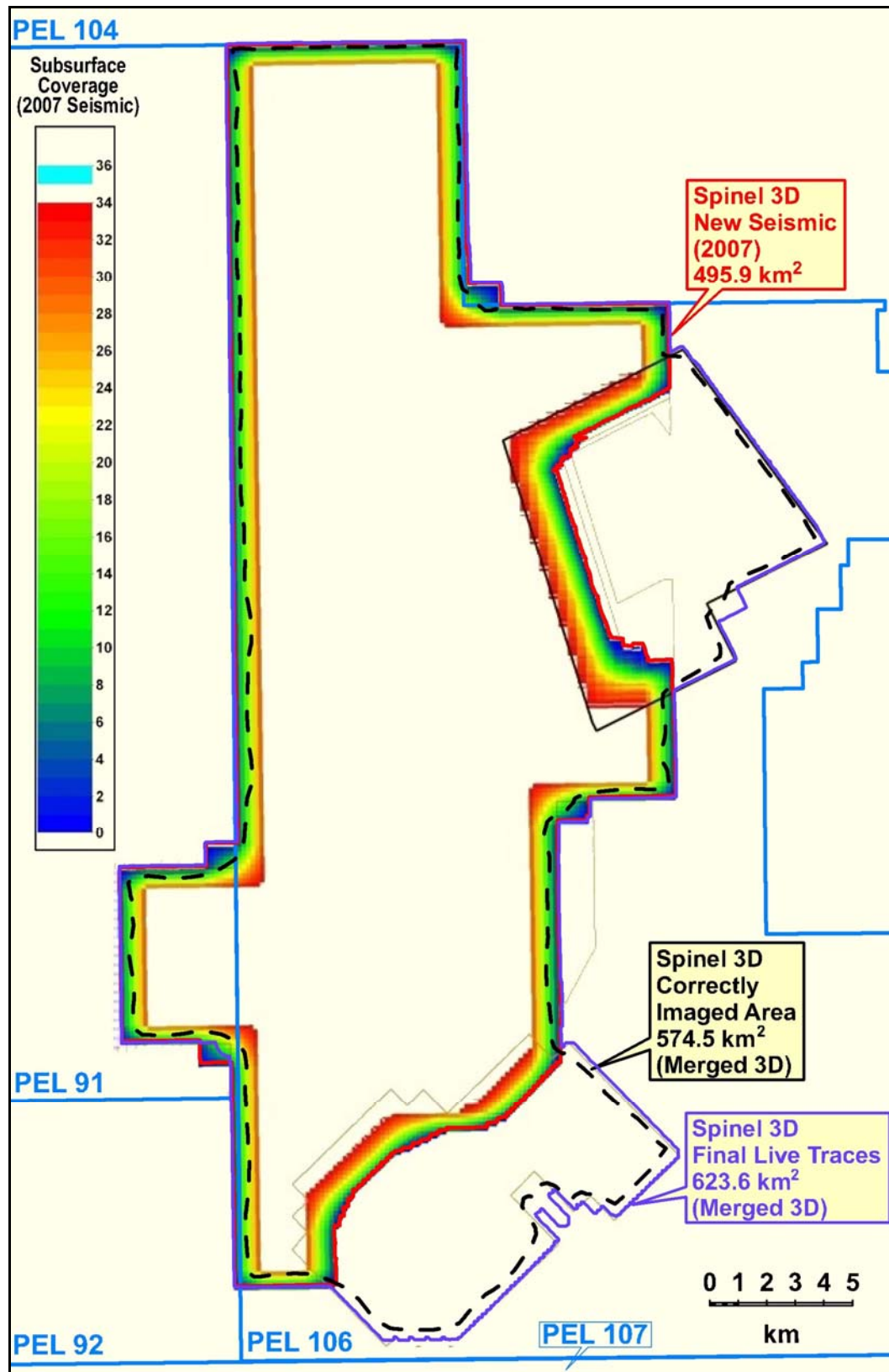


Figure 10. Spinel 3D subsurface coverage map

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 pickup 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).

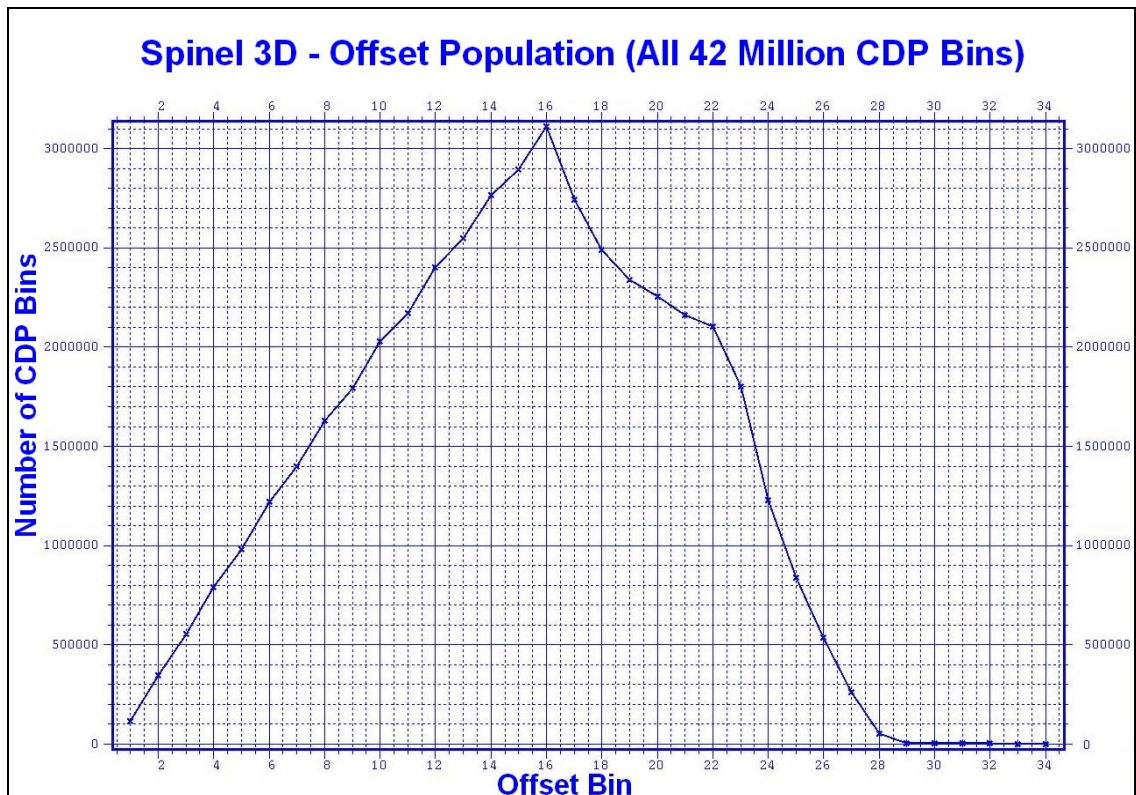


Figure 11. Spinel 3D offset population

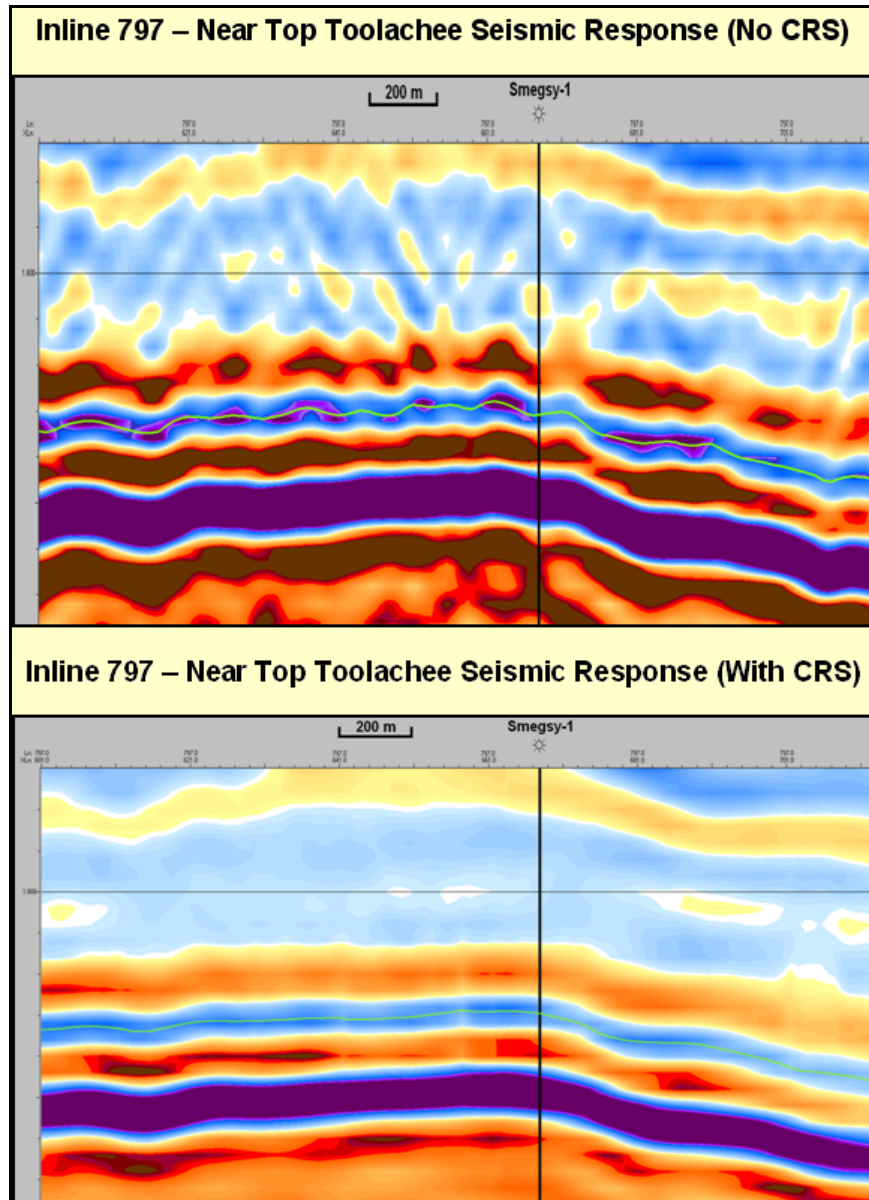


Figure 12. Spinel 3D, inline 797, before and after CRS

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): Rossco, 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)

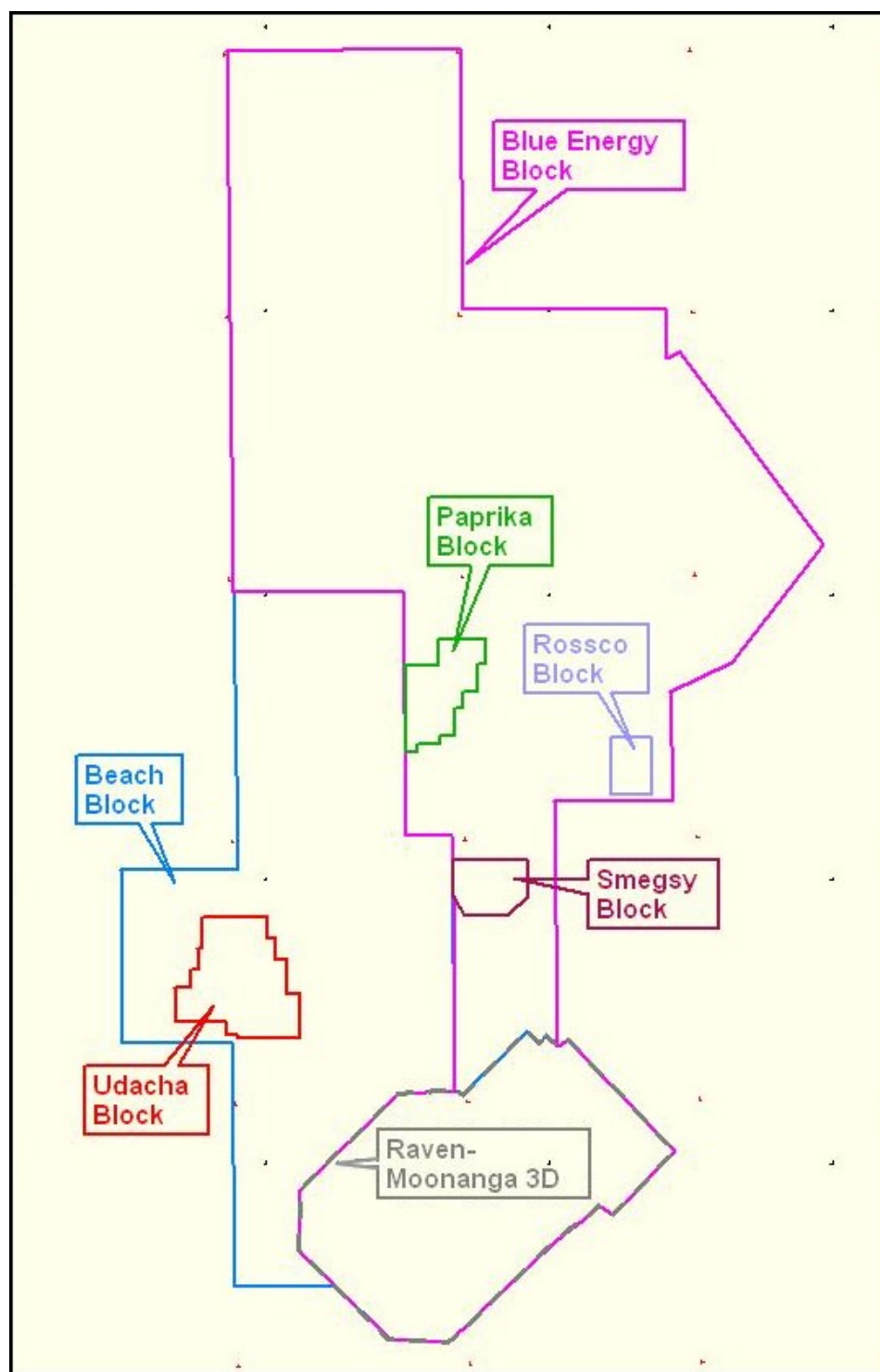


Figure 13. Spinel 3D farmin blocks

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**

CONTENTS

CONTENTS

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

Section

- 1.0 Introduction
- 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
- 8.0 Safety
- 9.0 Remarks & Recommendations

Appendices

- I. Recording Statistics
- II. Drilling Statistics
- III. LVL Statistics
- IV. Shifted Uphole Location File
- V. Line Preparation Statistics
- VI. Surveying Statistics
- VII. Personnel List
- 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.

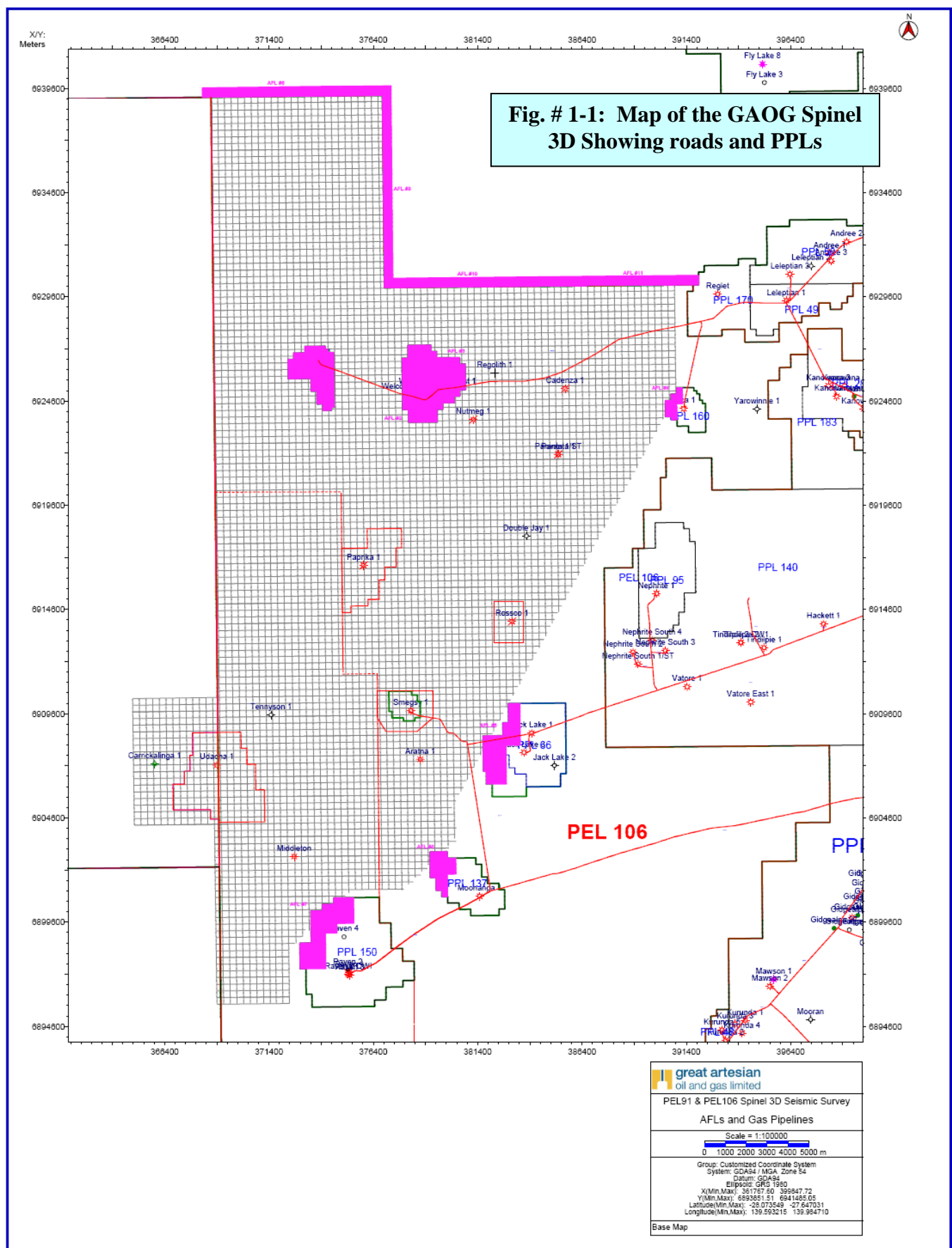
GAOG's Technical Director Chris Carty was in overall control of the project while Bruce Beer was contracted to represent GAOG in the field.

There were no Lost Time Injuries during the job.

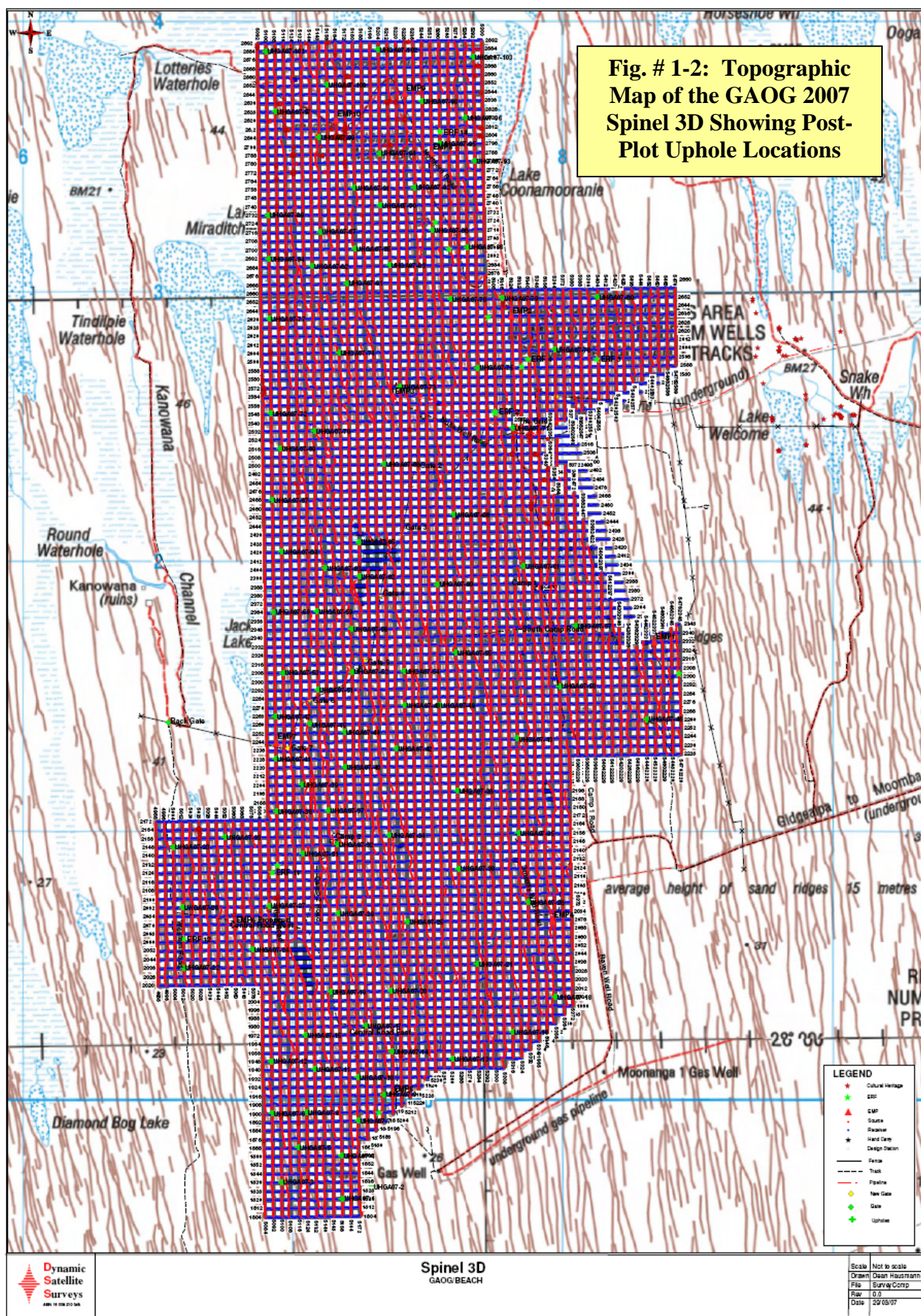
Details of production are contained in the appendices.

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

1.0 INTRODUCTION



1.0 INTRODUCTION



1.0 INTRODUCTION

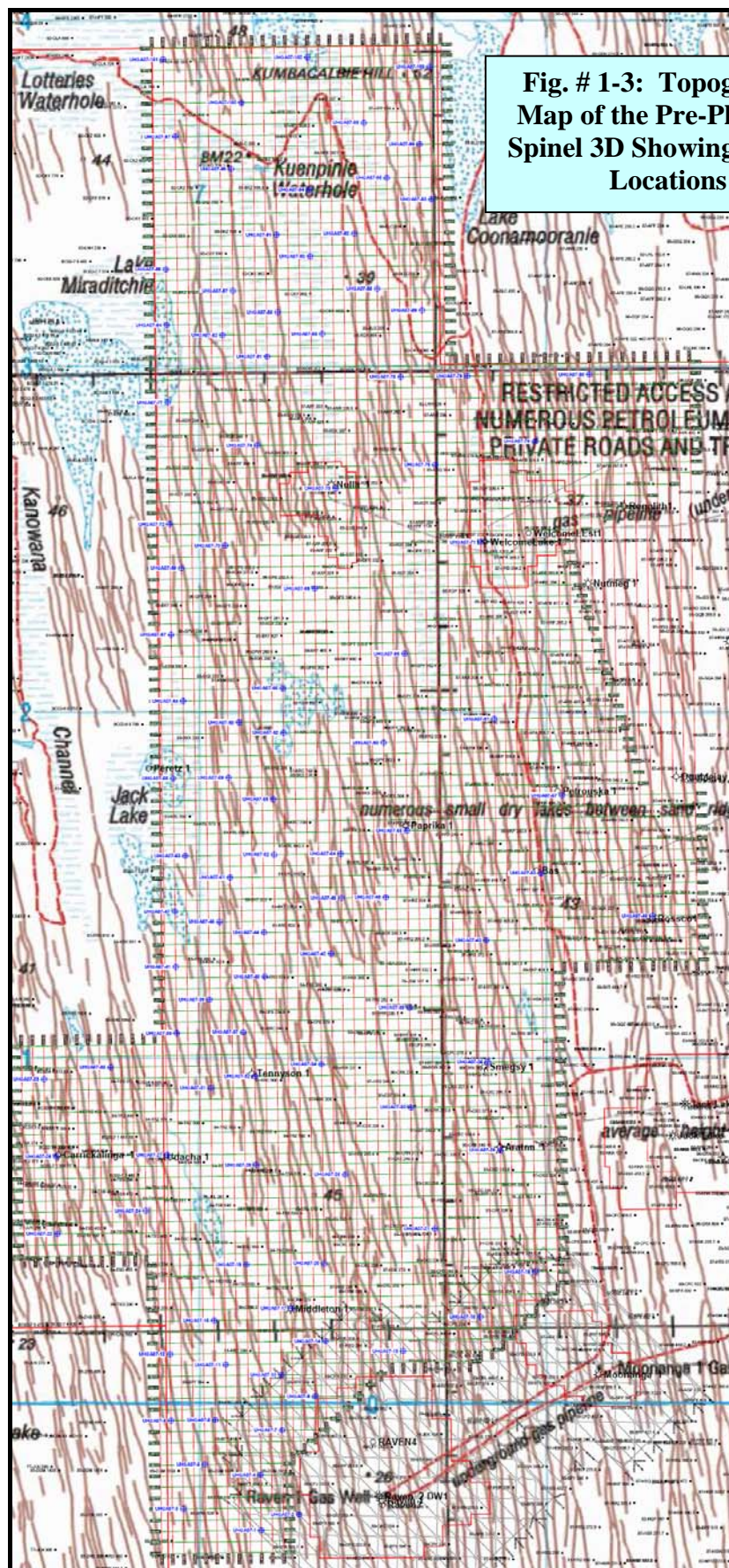


Fig. # 1-3: Topographic Map of the Pre-Plot 2007 Spinel 3D Showing Uphole Locations

1.0 INTRODUCTION



**Fig. # 1-4: Landsat
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).

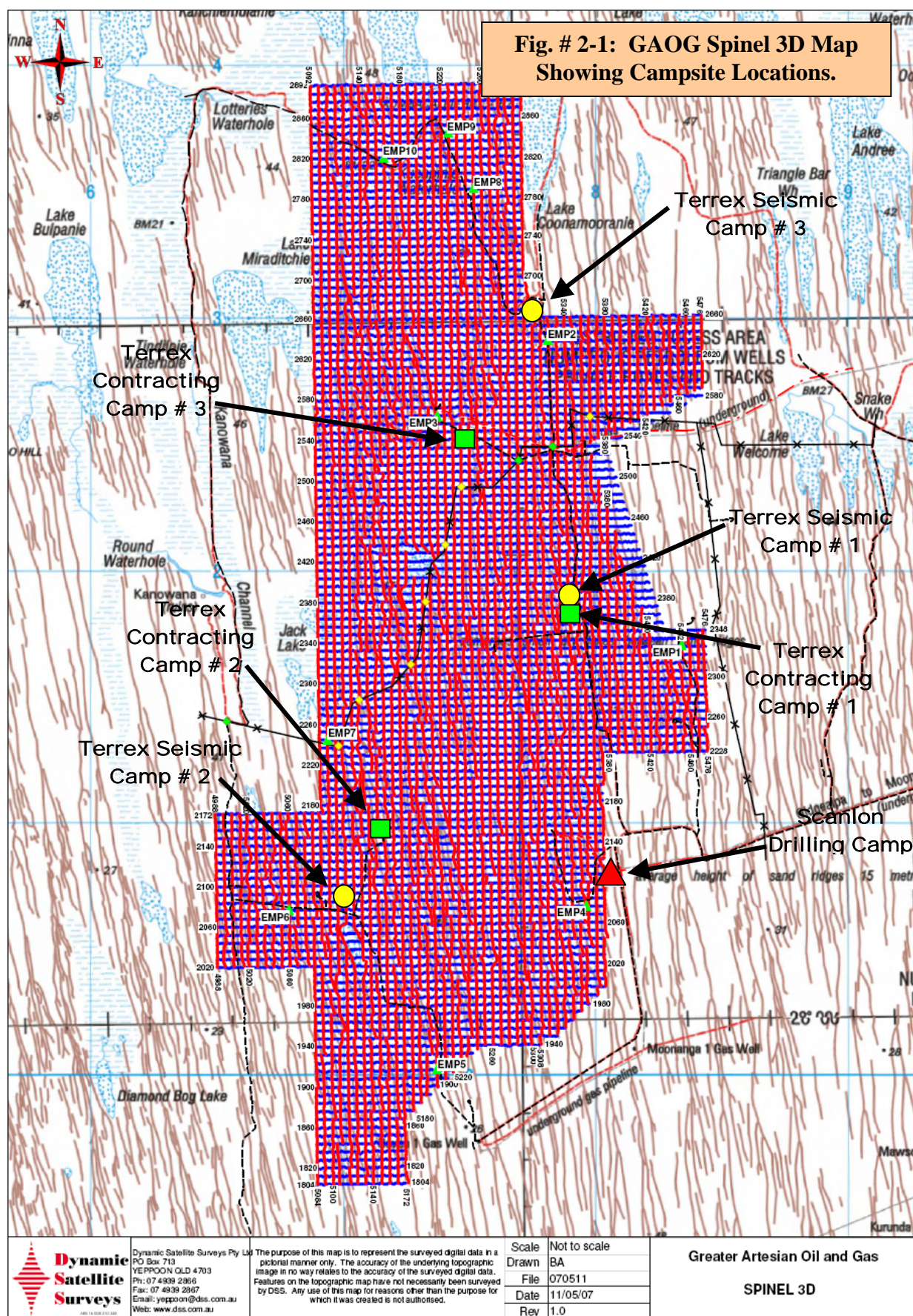
Communication was via satellite telephone and broad-band internet.

Refer to Fig # 2-1 for camp locations.

Register of campsites for the GAOG 2007 Spinel Seismic Survey

Camp #	Crew Occupying	Eastings	Northings	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	:	SEGD, Revision 1, 8058 IEEE De-multiplexed, 3490E Cartridge.
		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, 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

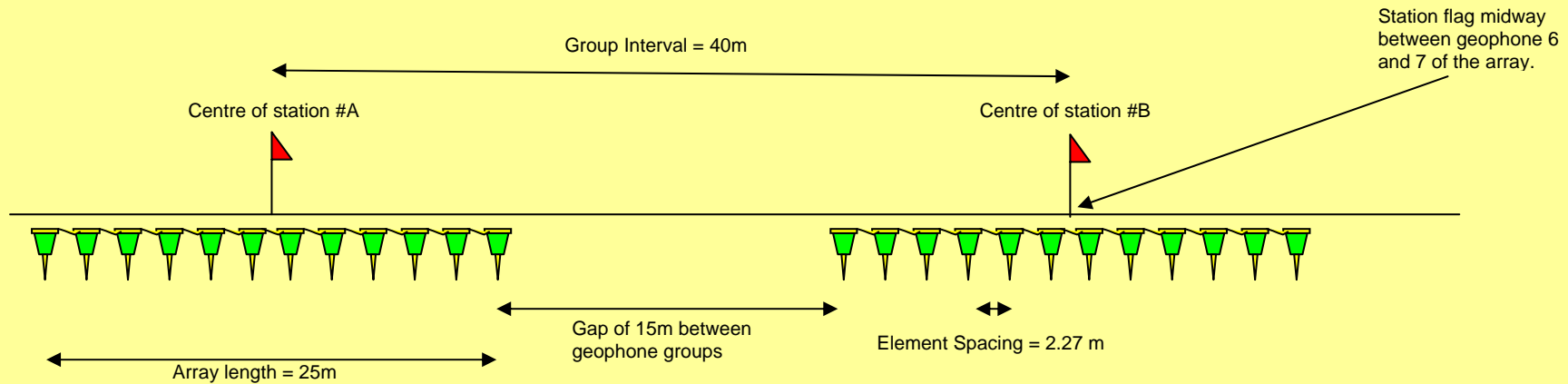
Manuf/Model/Res Freq	:	Sensor SM4 10 Hz
No./String	:	12
Connection	:	Series/parallel

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

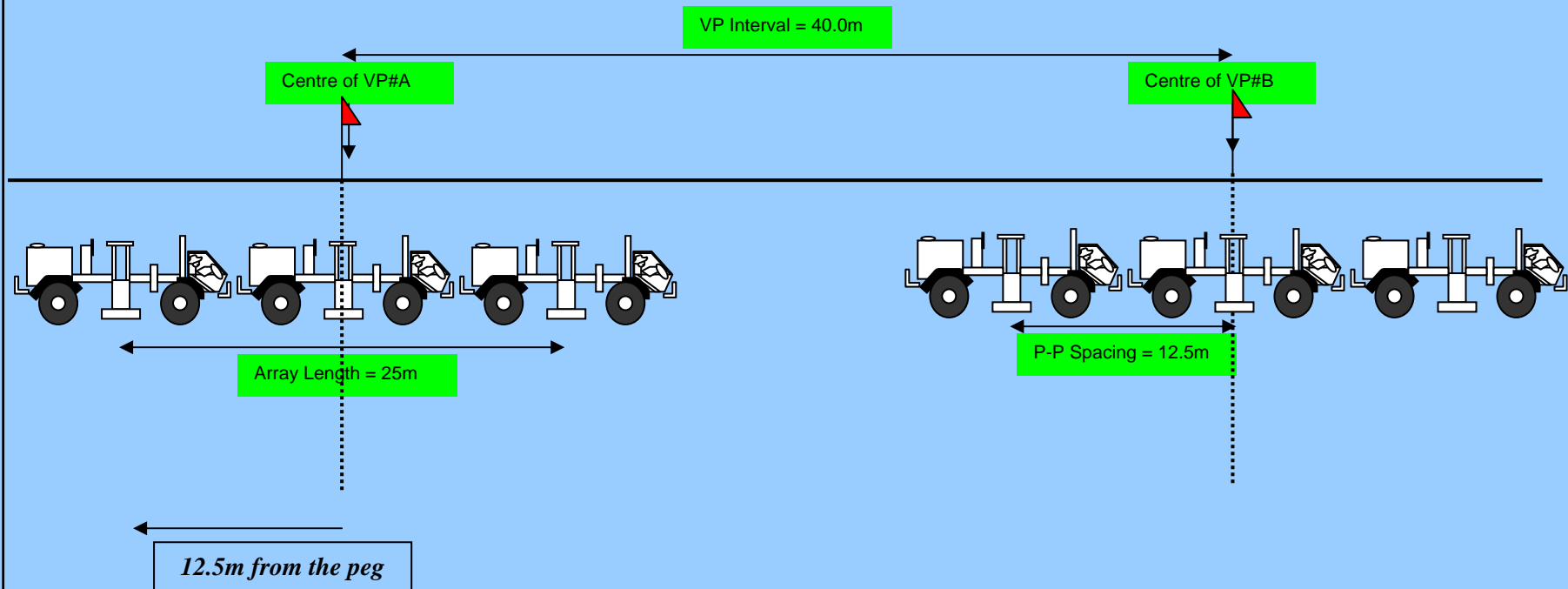
Fig. # 4-1: Geophone Array for the GAOG Limited 2007 Spinel 3D Seismic Survey



*Drawn by: Bruce Beer
GAOG Representative.*

4.0 - PARAMETERS

Fig. # 4-2: 3-Vibrator Array for the GAOG Limited 2007 Spinel 3D Seismic Survey



*Drawn by: Bruce Beer
GAOG Representative*

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 upswing, 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:

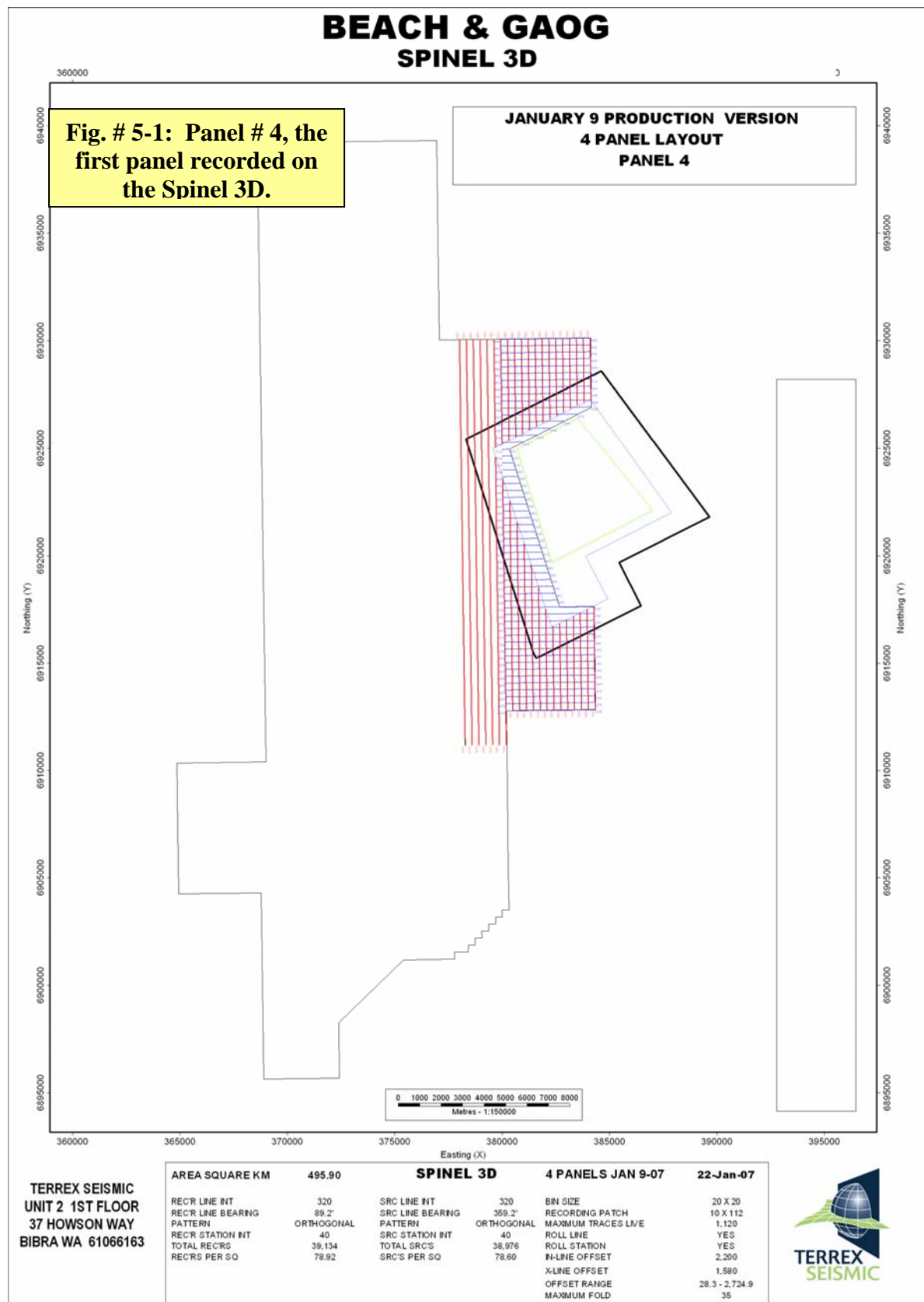
- a. The recording would start at the southern end of panel # 4 and proceed with the northern end of panel #3;
- b. Panel # 4 would have a vibrator overlap to the west with panel # 3;
- c. Panel # 3 would have a vibrator overlap with panel # 4 in the east and a spread overlap with panel # 2 in the west;
- 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.

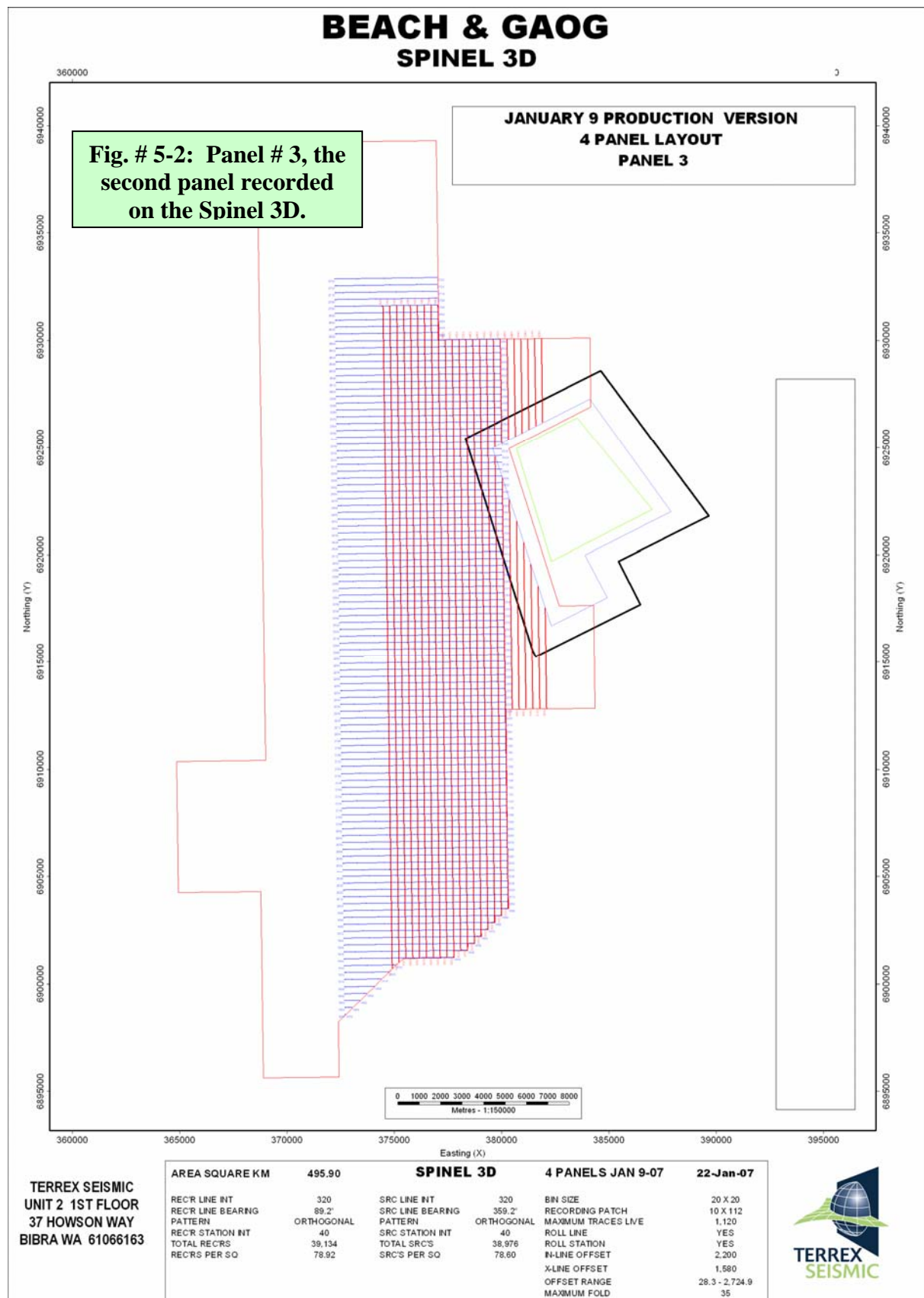


Picture # 5- 3: Chris Carty and observer Mitchell Burton in the dogbox

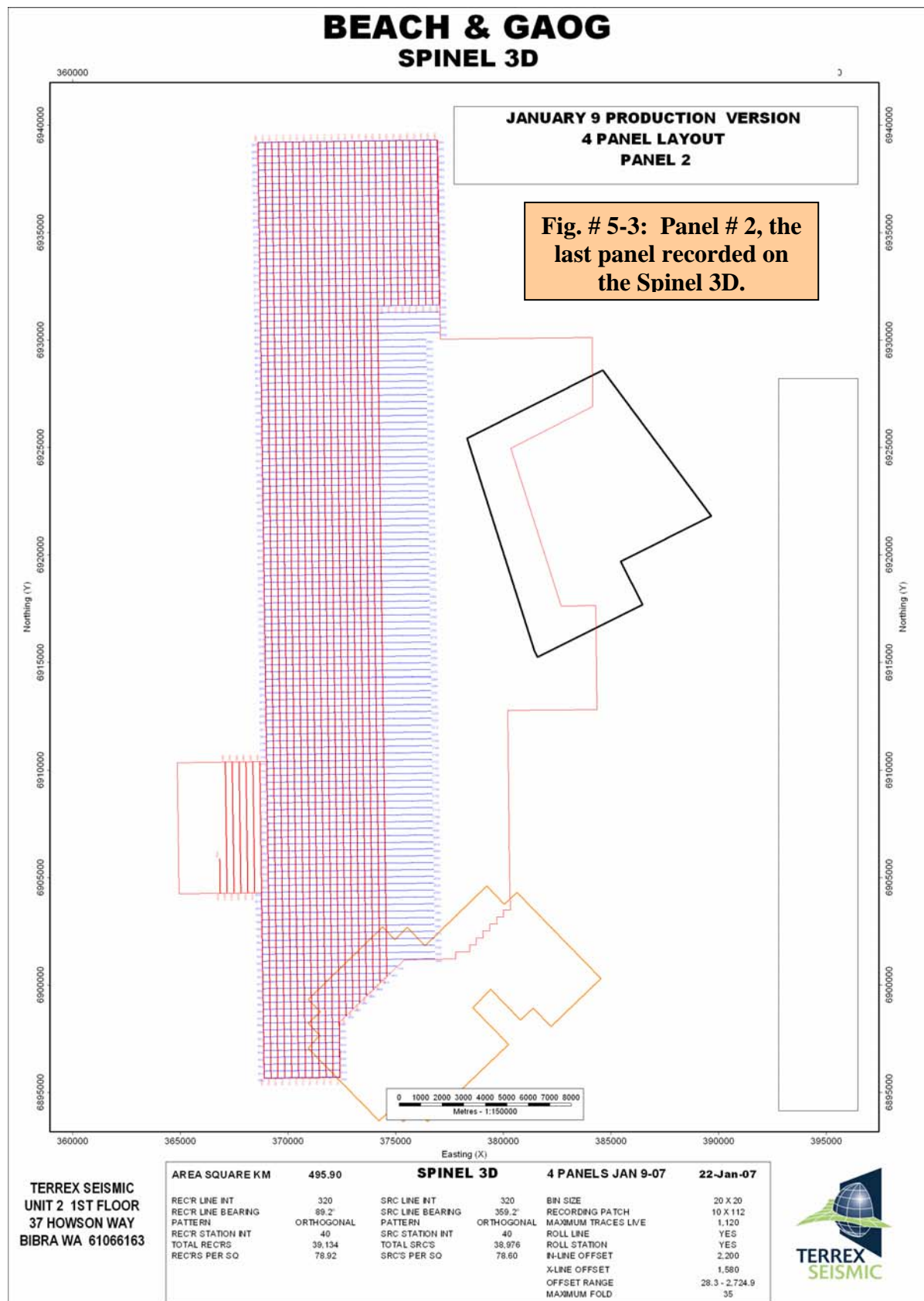
5.0 - RECORDING



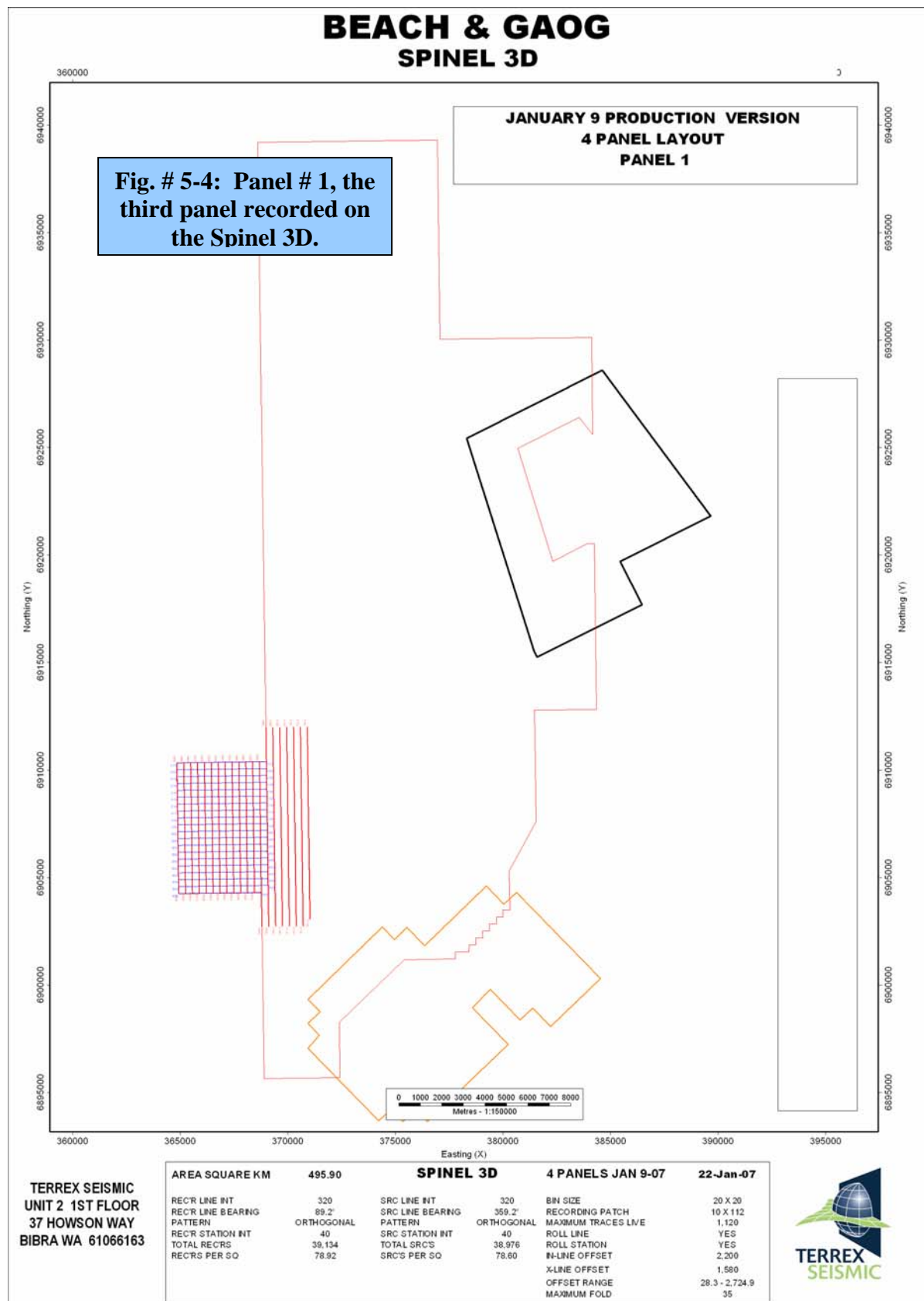
5.0 - RECORDING



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:

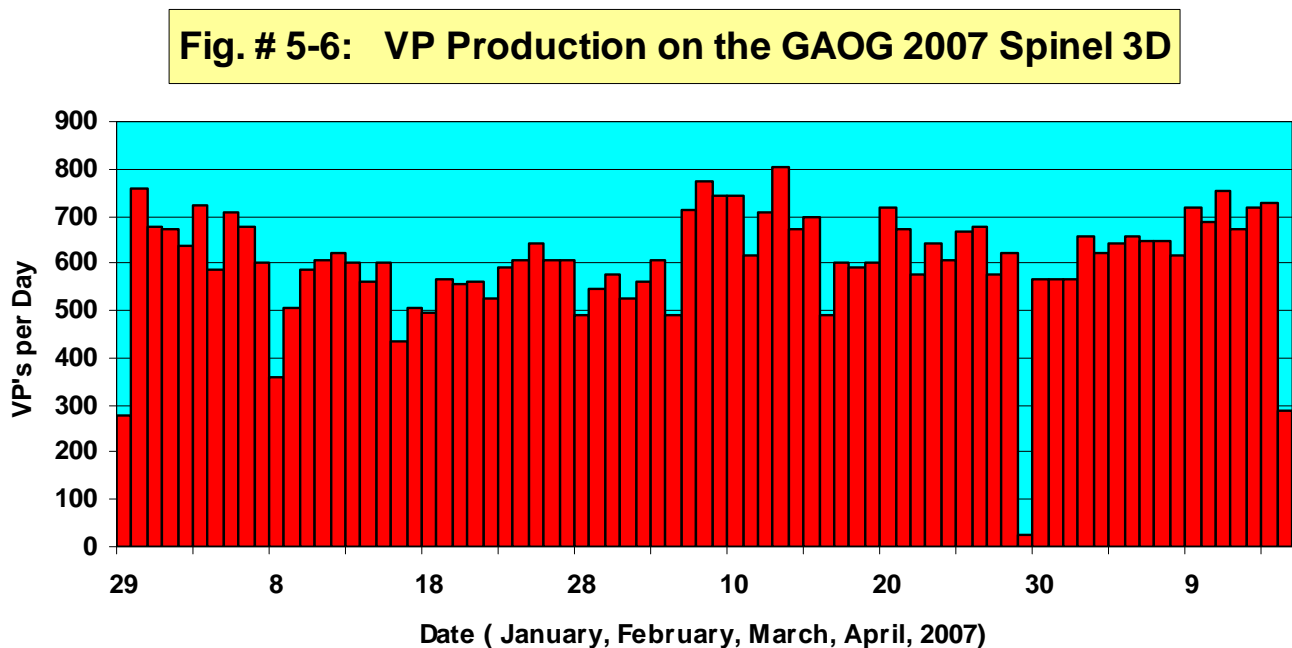


Fig. # 5-6 shows the total VPs per day including overlap VPs. The average per day was 612.7 VPs/day.

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

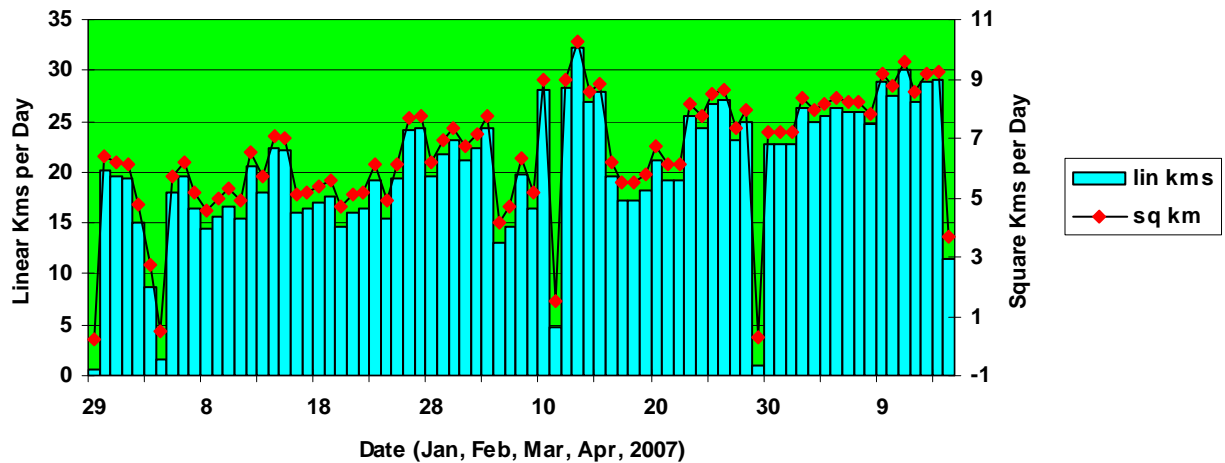
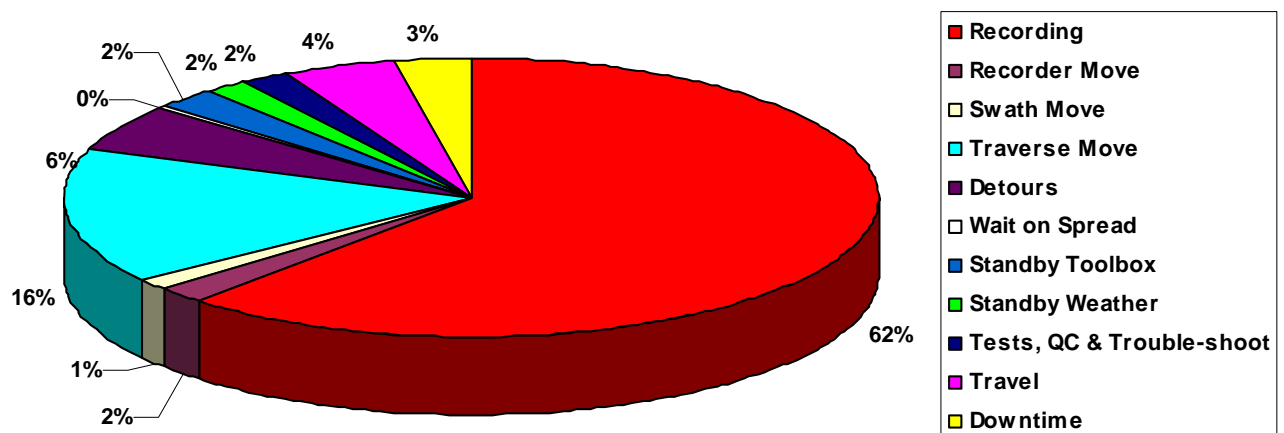


Fig. # 5-7 shows that the highest production was over 10 square kms per day. The average production was 6.52 sq km/day. This is an excellent rate of production.

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 move 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 move)
Total Overall Hours	988.8 (excluding move, 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.

5.0 - RECORDING



Picture # 5- 4: front juggy laying phones.

Data Quality

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

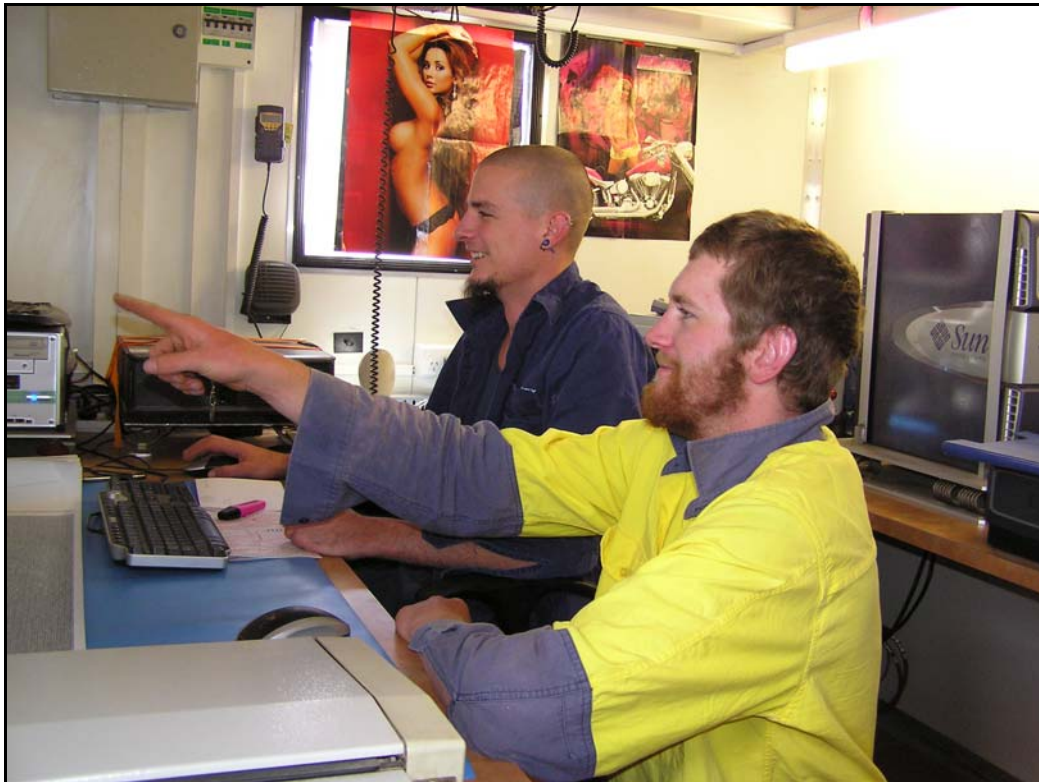
Sample paper monitor records are shown in Sample Monitor # 5-1 and 5-2. It must be noted that the monitor records have a 25 Hz low cut playback filter applied to them. The observers do this to cosmetically clean up the record and make it easier to trouble shoot. But the effect is to mask the lower frequencies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

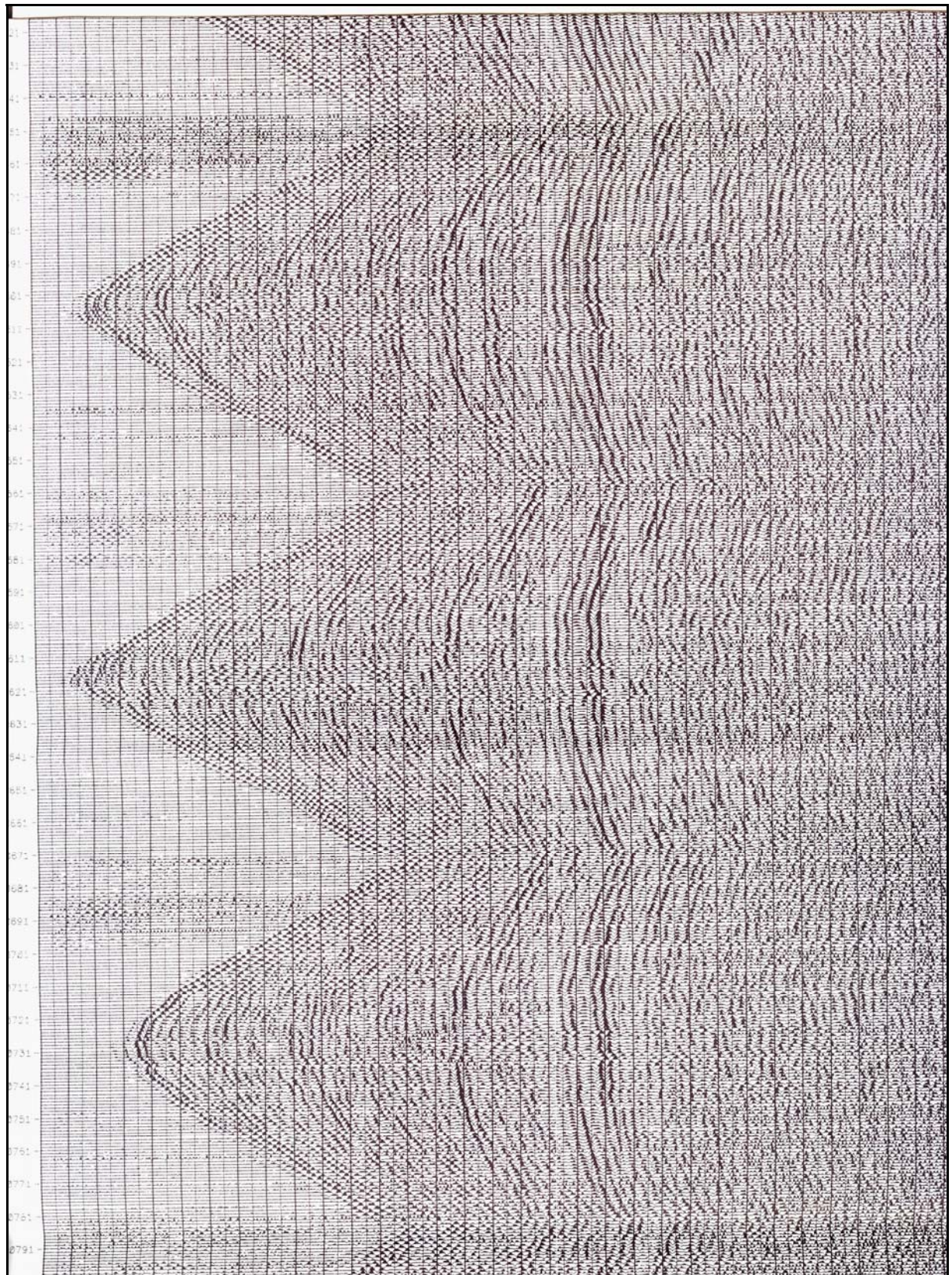
The sample monitors show a consistently good data quality.

5.0 - RECORDING



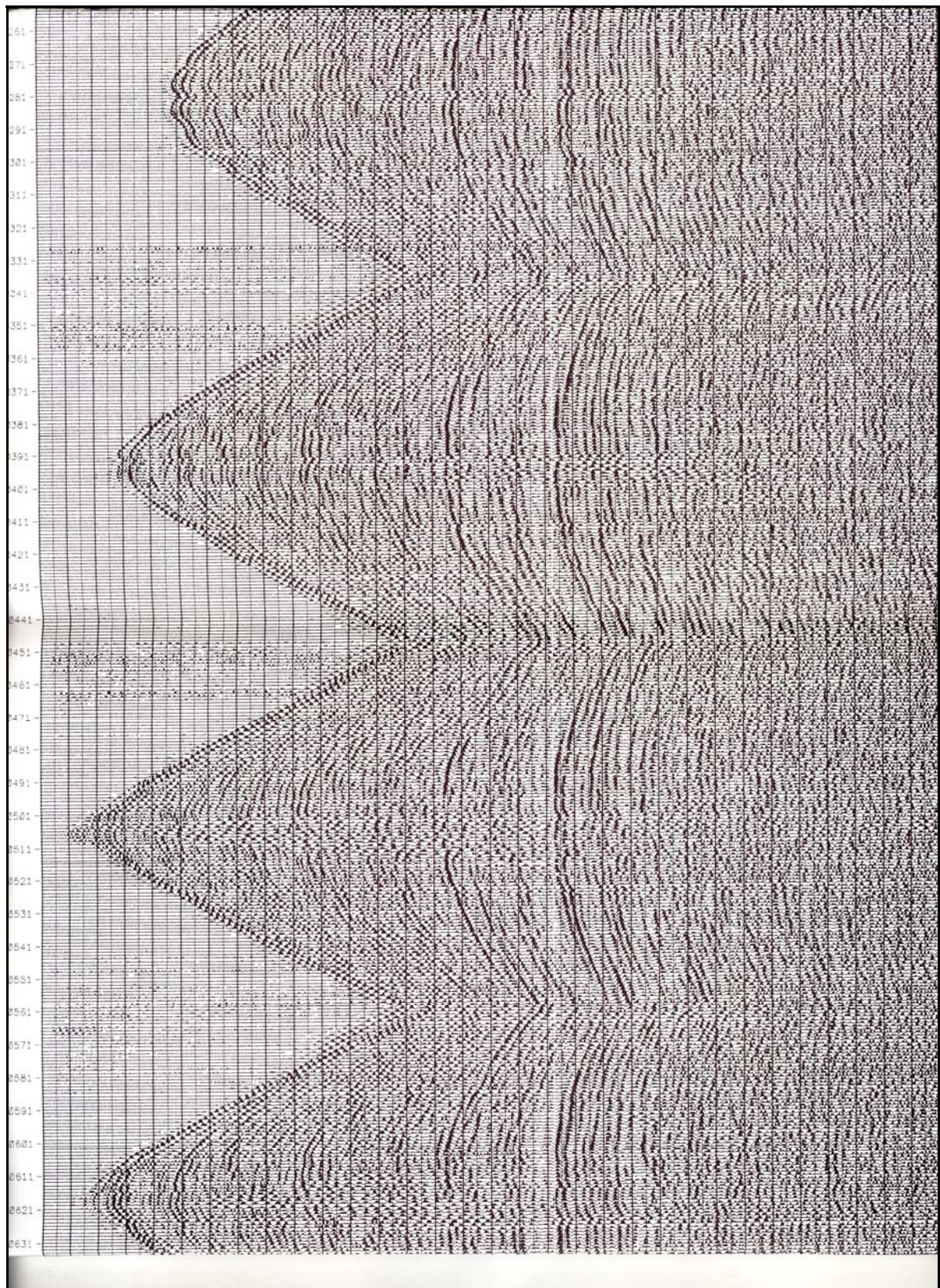
Picture # 5- 5: Mitch Burton at the controls with line boss Alyx Capper

5.0 - RECORDING



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

5.0 - RECORDING



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

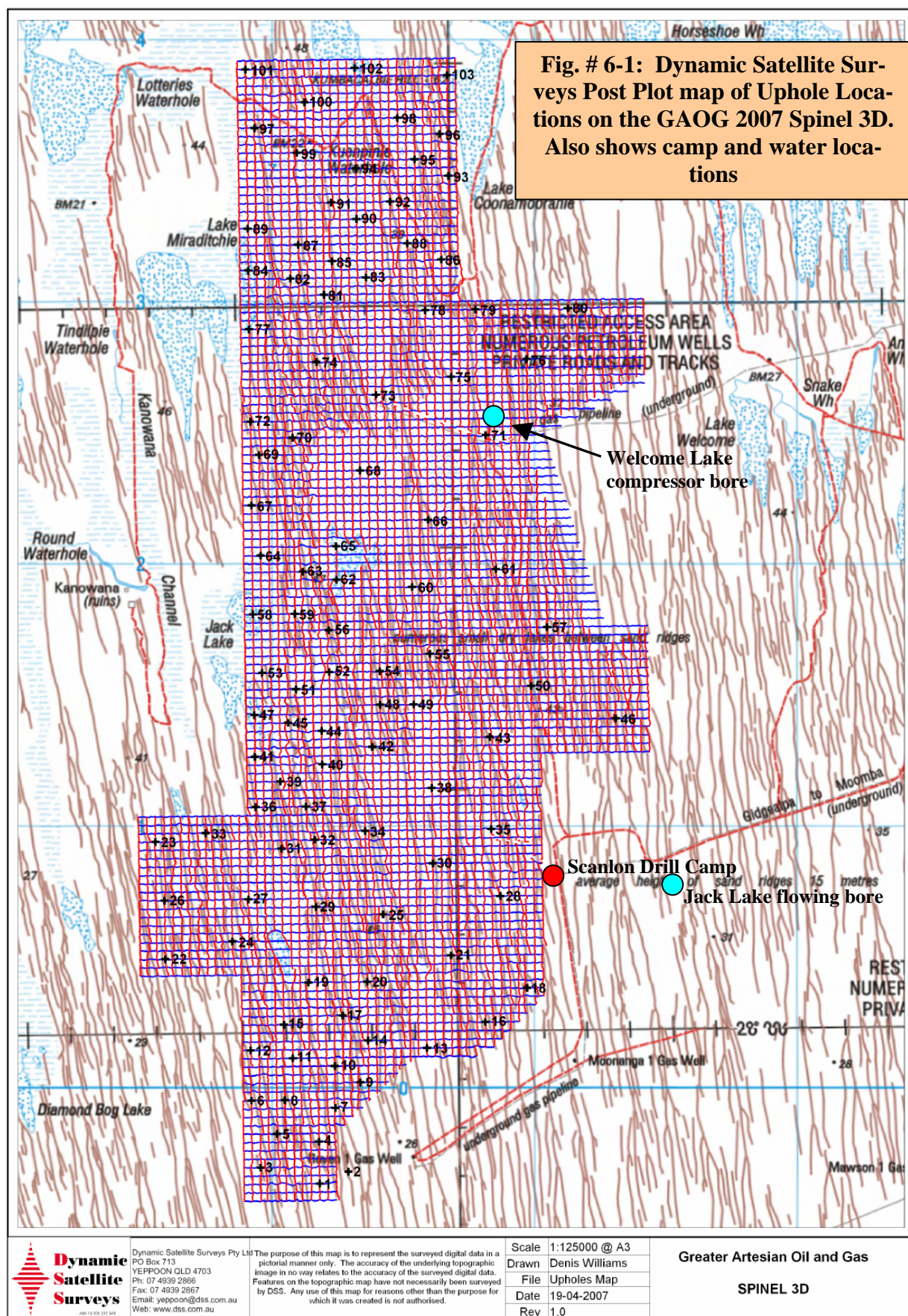
Ablution	1x trailer with chemical toilet mounted
Utility	1x Toyota 4x4 Station Wagon
Communications	All vehicles have UHF radios; 2 x satellite telephones;

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



6.0 DRILLING & LVL



Picture # 6- 3: Chris Carty and his visiting group talk with Russell St Jack (left) and Nathan Jones (right)

Personnel

Scanlon Drilling: Driller: Russell St Jack/Brett Andrew
 Offsiders: James McClure, Peter Gale, Ken Clark, Try
 Jones, Joe Smiler
 (only 4 of the above at one time)

Velocity Data Logger: Nathan Jones

Drilling on the Spinel 3D, PEL 106/91

There were 103 holes in the Spinel 3D PEL 106/91 uphole program. The average depth of hole on this program was 31.77m and the average depth of weathering was 9.24m. All holes were drilled using the mud pit. Water was obtained from the Jack Lake flowing water bore with the permission of Graham Betts and also from a compressor driven water bore near Welcome Lake with the permission of Scott Travis.

Weathering depths varied with elevation and were consistent with a relatively stable base of weathering.

Lithologies were listed by the drillers as predominantly sand and clays. Sub-weathering velocities were in the range 1750 to 2050 metres/sec, but typically in the 1850 – 1950 metres/sec range.

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

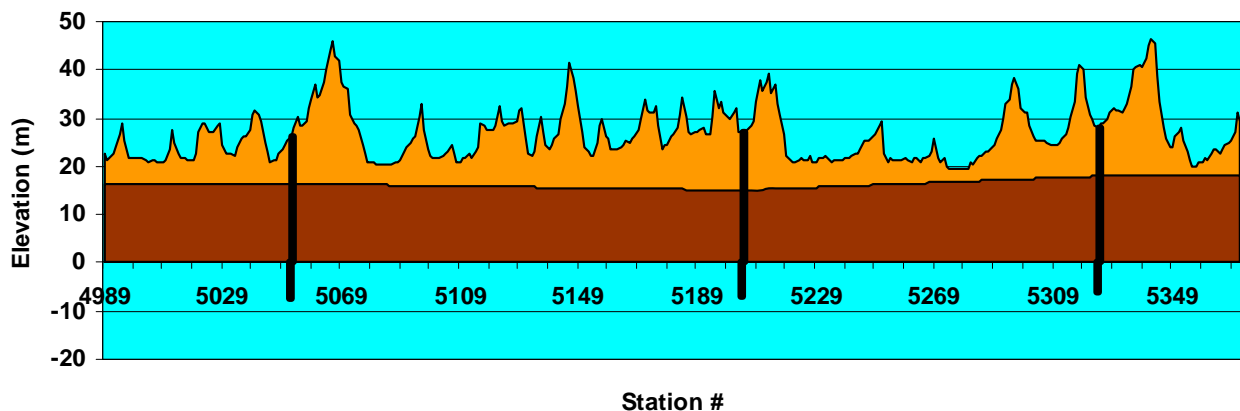
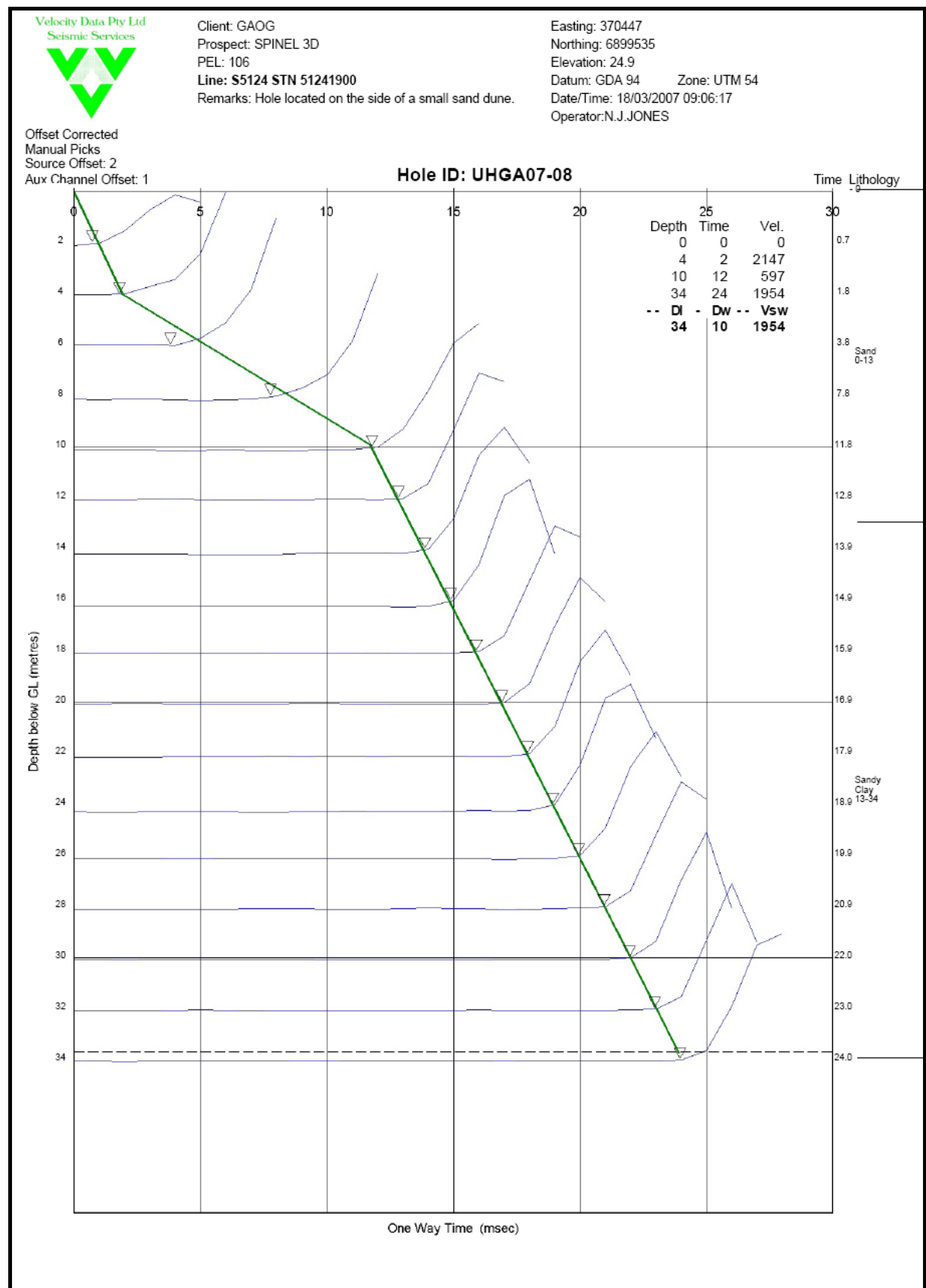


Fig # 6-2 shows a consistent base of weathering varying only 1m over the line. The uphole locations are plotted in the chart. Note that all were drilled below weathering and below datum.

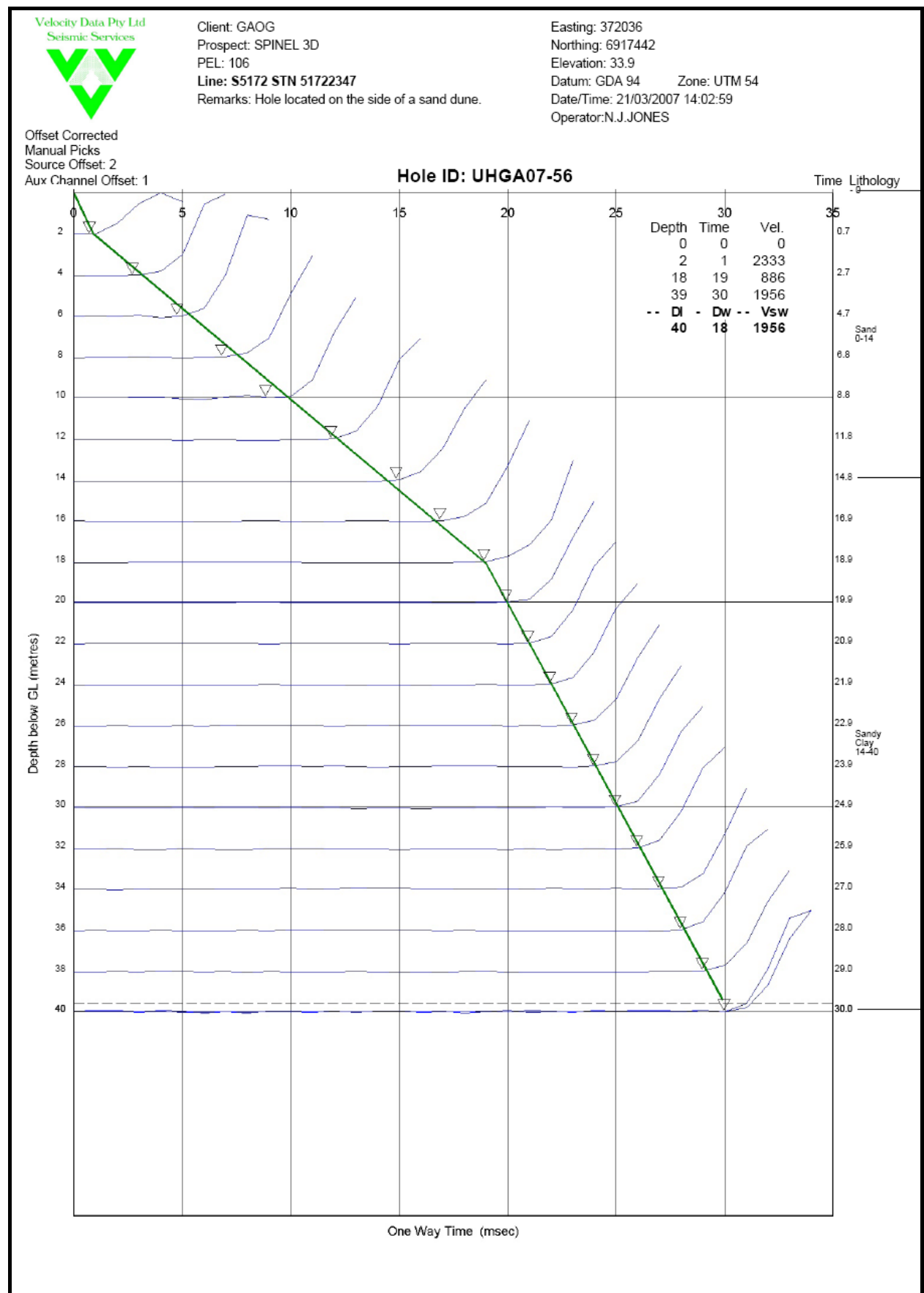
The model used in the plot in Fig. # 6-6 assumes that the base of weathering is linear between control points. 3 up-hole plots were used in producing the above chart. They were DHGAS07-33, 34 and 35. The weathering profiles in these up-holes tend to confirm that this model is approximately correct.

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

6.0 DRILLING & LVL



6.0 DRILLING & LVL



6.0 DRILLING & LVL

The table below gives the statistics:

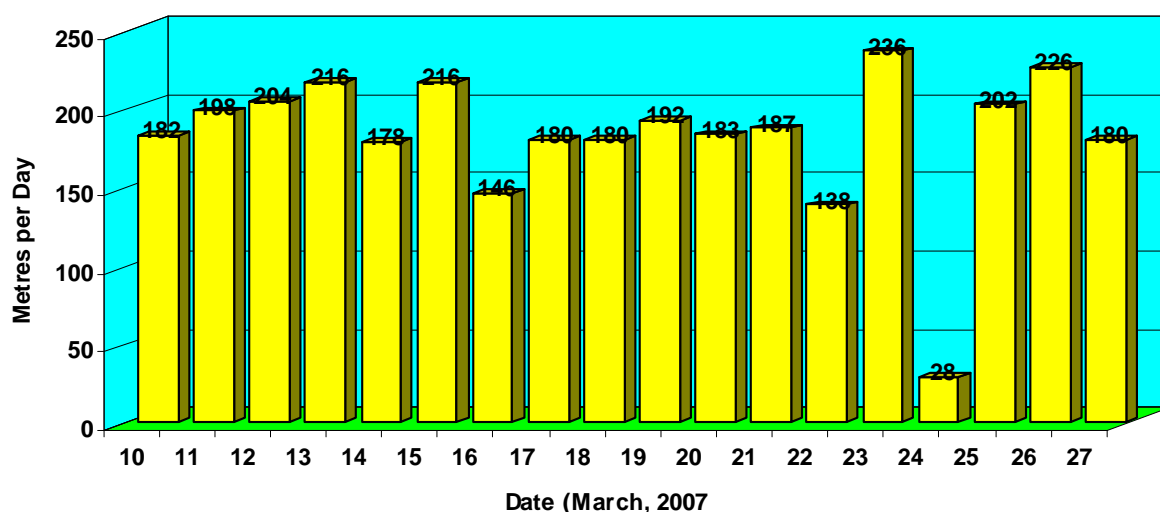
Table 6- 3: Statistics for Scanlon Drilling on the 2007 Spinel PEL 106/91 3D Uphole Survey

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

<u>Name</u>	<u>Position</u>
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.

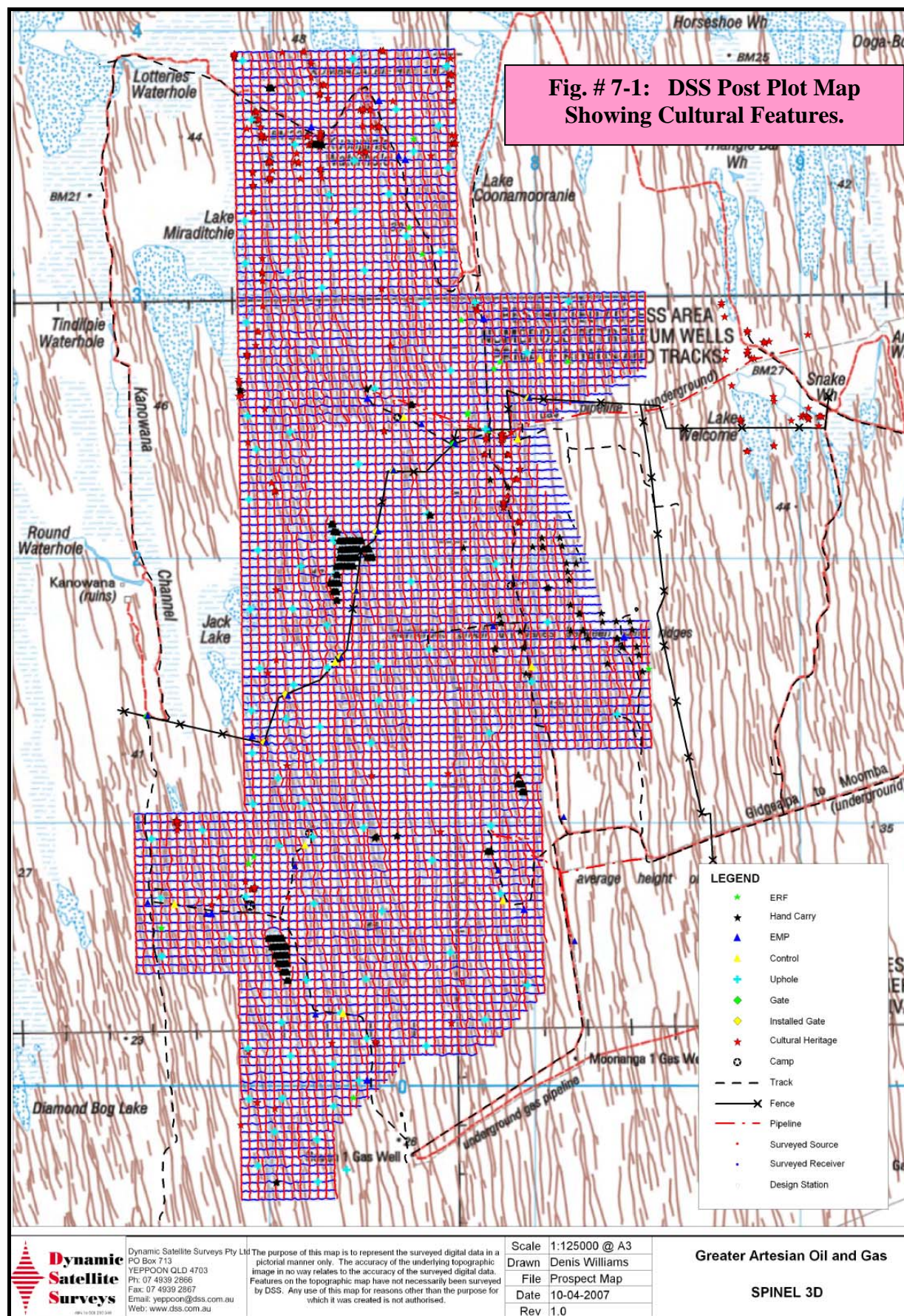
7.0 – LINE PREPARATION, SURVEYING, PERMITTING & ENVIRONMENT

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 climb them. For this reason we had to bring one dozer back go over every 5th receiver line and install side-cuts where necessary.

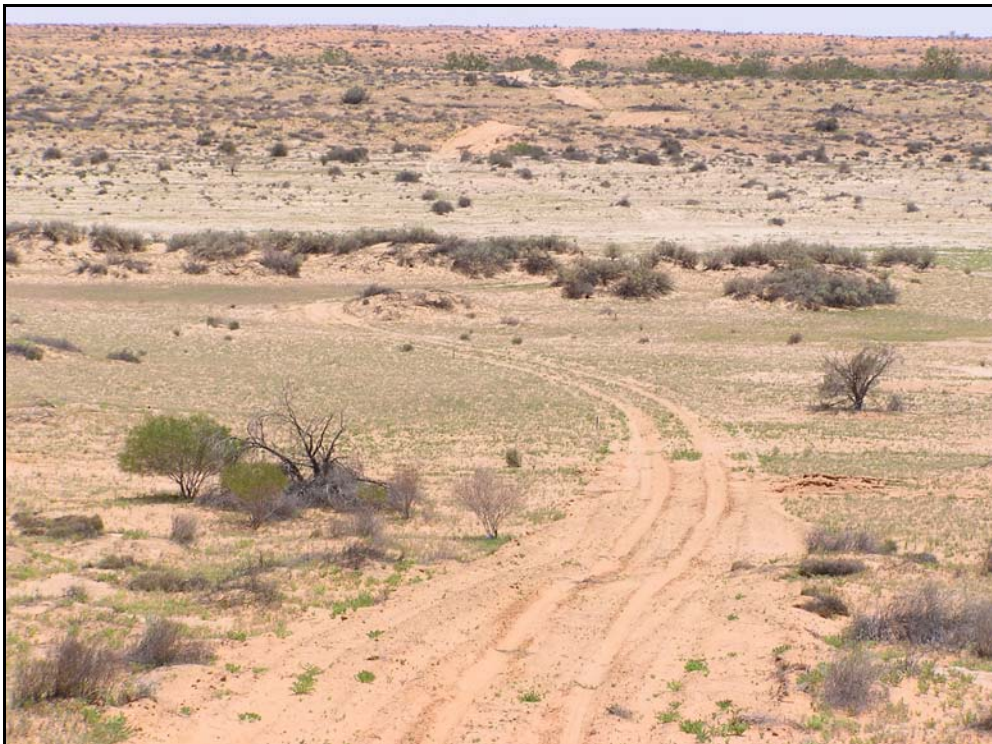
Summary

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 Innamincka 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	Test, Troubleshoot & Other	Layout & Pickup	Prospect Move	Travel	Downtime								
Jan																																					
23-Jan																									10.0	10.0						10.0	standby due to rain				
24-Jan																									10.0	10.0						10.0					
25-Jan																									10.0	10.0						10.0					
26-Jan																									10.0	10.0						10.0					
27-Jan																														15.5	15.5	mobe via L/H rd.					
28-Jan																									0.3	0.7	1.0	7.0	3.2	1.0	12.2	stirt lay sprd; induction					
29-Jan	6	2228	2268	5372	-	2229	2236	1.000	8	264	280	0.32		0.64	0.204	3.9		0.2				0.3		4.4	0.3	7.1		0.5	0.1	12.4	start rec panel 4 with o/lap						
	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	9.5		1.1	0.4		0.3		11.3				0.4	0.3	12.0								
	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	8.1	0.4	0.4	2.0	0.6		0.3		11.8	0.3			0.3	0.4	12.8							
	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																									
TOTALS for JANUARY 2007														126	1008	712	1720	40.32		40.32	12.825	21.50	0.40	0.40	3.30	1.00		1.20	40.70	68.50	0.60	####	####	2.20	0.80	104.90	
February																																					
1-Feb	15	2268	2340	5476	5372	2301	2308	14.000	112	192	675	4.48		19.32	6.145	8.2		0.2	2.2	1.2		0.3		12.1	0.2			0.4	0.2	12.9							
	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	8.6	0.4	0.3	1.7	0.8		0.3		12.1				0.4	0.6	13.1							

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 VP's	Overlap VP's	Total VP's 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	Test, Troubleshoot & Other	Layout & Pickup	Prospect Move	Travel	Downtime			
3-Feb	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																				
	24	2340	2412	-	-	2373	2380			504	721				8.68	2.761	9.8	0.4	0.3	1.1	0.6		0.3		12.5			0.4	0.6		13.5	
	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																					

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

Lines, Geometry and Production															Chargeable Hours								Non Chg Hrs								
Date	Swath#	Rec. Line to	Rec Line	Source Line to	Source Line	VP to	VP	# Traverses	# Production VP's	Overlap VP's	Total VP's 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	Test, Troubleshoot & Other	Layout & Pickup	Prospect Move	Travel	Downtime	Total day Hrs	Comments
5-Feb	46	2516	2588	-	-	2549	2556																								
	44	2500	2572	5372	-	2533	2540	0.25	2	256	707	0.08		18.04	5.738	9.4		0.1	1.7	0.4		0.3		11.9				0.6	0.3	12.8	
	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																			
6-Feb	50	2548	2620	5372	5468	2581	2588	12.125	97			3.88																			
	51	2556	2628	5372	5476	2589	2596	14	112			4.48																			
	52	2564	2636	5476	5372	2597	2604	14	112	192	680	4.48		19.52	6.209	9.1	0.3		0.9	1.7		0.3		12.3	0.1		0.6	0.1	13.1		
	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																			
7-Feb	56	2596	2660	5372	5436	2629	2636	9	72	192	600	2.88		16.32	5.191	7.7	1.1	0.1	1.5	1.0		0.3		11.7	0.1		0.6			12.4	
	57	2604	2660	5372	5476	2637	2644	14	112			4.48																			
	58	2612	2668	5372	5476	2645	2652	14	112			4.48																			
8-Feb	59	2620	2676	5372	5476	2653	2660	14	112			4.48																			
	60	2732	2660	5300	5236	2693	2700	9	72		360	2.88		14.40	4.580	4.2		1.4	2.1	0.3	2.1	0.3		10.4			0.5	2.0	12.9		
	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																			
9-Feb	64	2700	2628	5300	5236	2661	2668	9	72			2.88																			
	65	2692	2620	5236	5364	2653	2660	17	136	112	504	5.44		15.68	4.987	7.9		0.1	2.3	0.1		0.3	1.6	12.3			0.6	0.3	13.2	stby due cattle damage.	
	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	7.2	0.4	0.2	1.9	1.3		0.3		11.3	0.4		0.5	0.1	12.3		
	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																			
11-Feb	71	2644	2572	5236	5292	2605	2612	8	64			2.56																			
	70	2652	2580	5300	5364	2613	2620	9	72	224	608	2.88		15.36	4.886	8.0			2.2	0.5		0.3		11.0	0.7		0.3	0.4	12.4		

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

Lines, Geometry and Production															Chargeable Hours								Non Chg Hrs								
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	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	Test, Troubleshoot & Other	Layout & Pickup	Prospect Move	Travel	Downtime	Total day Hrs	Comments
12-Feb	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																			
	72	2636	2564	5244	5236	2597	2604	2	16	112	624	0.64		20.48	6.514	7.8		0.1	2.8	0.9		0.3		11.9	0.1		0.3	0.3		12.6	
	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																			
13-Feb	76	2604	2532	5340	5236	2565	2572	14	112			4.48																			
	77	2596	2524	5236	5324	2557	2564	12	96			3.84																			
	76	2604	2532	5348	5364	2565	2572	3	24	152	600	0.96		17.92	5.700	9.5	0.4	0.1	1.6	0.4		0.3		12.3	0.3		0.3	0.2		13.1	
	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																			
14-Feb	81	2564	2492	5236	5284	2525	2532	7	56			2.24																			
	80	2572	2500	5292	5364	2533	2540	9.75	78	2	559	3.12		22.28	7.087	8.3		0.2	2.1	0.2	0.1	0.3		11.2	0.2		0.3	0.4		12.1	
	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																			
	85	2532	2460	5364	5236	2493	2500	17	136	50	602	5.44		22.08	7.023	6.9		0.3	3.3	1.2		0.3		12.0	0.2		0.3	0.4		12.9	
15-Feb	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																			
	89	2500	2428	5356	5236	2461	2468	16	128	35	435	5.12		16.00	5.089	5.0	0.4	0.2	3.0	1.0	0.7	0.3		10.6	1.1		0.3	0.9		12.9	
	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	5.8		0.1	3.1	0.6		0.3		9.9			0.2	1.9		12.0	
	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	6.7		0.1	2.8	1.4		0.3		11.3	0.5		0.2	0.3		12.3	

		Lines, Geometry and Production														Chargeable Hours								Non Chg Hrs								
Date	Swath#	Rec. Line to	Rec. Line	Source Line to	Source Line	VP to	VP	#Traverses	# Production VP's	Overlap VP's	Total VP's 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	Test, Troubleshoot & Other	Layout & Pickup	Prospect Move	Travel	Downtime	Total day Hrs	Comments	
19-Feb	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																				
	98	2428	2356	5236	5364	2389	2396	15	120	127	567	4.80		17.60	5.598	8.6		0.2	1.5	1.2		0.3		11.8	0.3			0.4	0.3	12.8		
	99	2420	2348	5364	5236	2381	2388	17	136			5.44																				
	100	2412	2340	5236	5364	2373	2380	17	136			5.44																				
20-Feb	101	2404	2332	5236	5276	2365	2372	6	48			1.92																				
	101	2404	2332	5284	5364	2365	2372	11	88	190	558	3.52		14.72	4.682	7.5	0.5		2.2	1.4		0.3		11.9	0.4			0.4	0.2	12.9		
	102	2396	2324	5236	5364	2357	2364	17	136			5.44																				
	103	2388	2316	5236	5364	2349	2356	17	136			5.44																				
21-Feb	104	2380	2308	5364	5364	2341	2348	1	8			0.32																				
	104	2380	2308	5356	5236	2341	2348	16	128	160	560	5.12		16.00	5.089	7.2		0.1	2.4	1.0		0.3		11.0	0.2			0.5	0.1	11.8		
	105	2372	2300	5236	5364	2333	2340	17	136			5.44																				
	106	2364	2292	5236	5364	2325	2332	17	136			5.44																				
22-Feb	107	2356	2284	-	-	2317	2324																									
	107	2356	2284	5364	5236	2317	2324	17	136	120	528	5.44		16.32	5.191	7.7		0.1	2.3	1.3		0.3		11.7				0.5	0.7	12.9		
23-Feb	108	2348	2276	5236	5364	2309	2316	17	136			5.44																				
	109	2340	2268	5236	5364	2301	2308	17	136			5.44																				
	110	2332	2260	5364	5236	2300	2293	17	136	112	592	5.44		19.20	6.107	8.9			1.7	0.6		0.3		11.5	0.3			0.5	0.4	12.7		
	111	2324	2252	5364	5236	2292	2285	17	136																							

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 VP's	Overlap VP's	Total VP's 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	Test, Troubleshoot & Other	Layout & Pickup	Prospect Move	Travel	Downtime		
26-Feb	119	2260	2188	5244	5236	2221	2228	2	14		605	0.56		24.20	7.698	7.7		0.3	1.9	0.7		0.3		10.9	0.1			0.7	0.7	12.4	
	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	7.8		0.1	2.7	0.5		0.3		11.4	0.1			0.7	0.3	12.5	
	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	5.6	0.6	0.2	2.9	1.5		0.3		11.1	0.5			0.7	0.3	12.6	Slow progress.
	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																			
TOTALS for FEBRUARY 2007								1497	11976	4268	16244	479.04		479.04	152.37	215.00	5.60	5.40	58.10	23.50	2.90	8.40	1.70	320.60	7.60			13.00	13.60	354.80	
1-Mar	131	2164	2092	5332	5372	2132	2125	6	48		544	1.92		21.76	6.921	6.8		0.2	3.3	0.8		0.3		11.4	0.1			1.0	0.4	12.9	
	132	2156	2084	5372	5236	2124	2115	18	144			5.76																			
	133	2148	2076	5236	5372	2116	2109	18	144			5.76																			

Recording Production for Terrex Seismic Crew # 402 on the GAOG 2007 Spinel 3D Seismic Survey in PEL 106/91																																
		Lines, Geometry and Production													Chargeable Hours							Non Chg Hrs										
Date	Swath#	Rec. Line to	Rec. Line	Source Line to	Source Line	VP to	VP	#Traverses	# Production VP's	Overlap VP's	Total VP's 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	Test, Troubleshoot & Other	Layout & Pickup	Prospect Move	Travel	Downtime	Total day Hrs	Comments	
4-Mar	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																				
	143	2068	1996	5244	5372	2021	2028	17	136		560	5.44		22.40	7.125	6.9			1.9	0.7		0.3		9.8	1.3			0.8	0.9	12.8		
5-Mar	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																				
	147	2036	1964	5236	5372	2004	1997	18	144		608	5.76		24.32	7.736	7.4		0.2	1.8	0.2		0.3	1.8	11.7	0.1			0.8		12.6		
	148	2028	1956	5326	5364	1996	1987	17	136			5.44																				
6-Mar	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																				
	151	2004	1932	5276	5340	1965	1972	9	72	160	488	2.88		13.12	4.173	6.0	4.0	0.2	1.2	0.5		0.3		12.2				0.5		12.7		
	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																				
7-Mar	155	1972	1900	5236	5244	1940	1933	1.625	13			0.52																				
	156	1964	1892	5236		1940	1936	0.5	4			0.16																				
	162	2172	2132	5084	4996	2172	2165	12	96	344	712	3.84		14.72	4.682	9.1		0.1	1.0	0.3		0.3										

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 VP's	Overlap VP's	Total VP's 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	Test, Troubleshoot & Other	Layout & Pickup	Prospect Move	Travel	Downtime			
9-Mar	168	2084	2156	5004	4988	2124	2117	3	24	336	744	0.96			16.32	5.191	9.1		0.3	1.4	0.5		0.3		11.6	0.3			0.3	0.3	12.5	
9-Mar	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	8.9			1.2	1.1		0.3			11.5	0.1			0.3		11.9	
	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	7.5	2.8	0.1	0.4	0.5		0.3			11.6	0.2			0.7	0.1	12.6
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	8.4	0.5	0.3	1.4	0.7		0.3			11.6	0.3						

		Lines, Geometry and Production													Chargeable Hours								Non Chg Hrs									
Date	Swath#	Rec. Line to	Rec. Line	Source Line to	Source Line	VP to	VP	#Traverses	# Production VP's	Overlap VP's	Total VP's 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	Test, Troubleshoot & Other	Layout & Pickup	Prospect Move	Travel	Downtime	Total day Hrs	Comments	
14-Mar	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																				
	199	1876	1948	5124	5084	1909	1916	6	48	672		1.92		26.88	8.550	8.1	0.5	0.1	1.7	0.2		0.3		10.9	0.4		0.5	0.7	12.5			
	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																				
15-Mar	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																				
	204	1916	1988	5116	5084	1949	1956	5	40	696		1.60		27.84	8.855	7.9		0.2	2.8	0.3		0.3		11.5	0.3		0.3	0.1	12.2			
	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	508																											

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 VP's	Overlap VP's	Total VP's 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	Test, Troubleshoot & Other	Layout & Pickup	Prospect Move			Travel	Downtime
19-Mar	219	2036	2108	5188	5092	2069	2076	13	104	144	600	4.16		18.24	5.802	6.8		0.1	2.4	2.0		0.3		11.6				0.5	0.2	12.3	
	220	2044	2116	5092	5228	2077	2084	18	144			5.76																			
	221	2052	2124	5092	5228	2085	2092	18	144			5.76																			
20-Mar	222	2060	2132	5228	5172	2093	2100	8	64			2.56																			
	222	2060	2132	5164	5092	2093	2100	10	80	192	720	3.20		21.12	6.718	8.4		0.2	2.2	0.2		0.3		11.3				0.5	0.3	12.1	
	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																			
	228	2092	2164	5220	5092	2125	2132	17	136	192	672	5.44		19.20	6.107	7.7	0.7	0.1	2.1	0.8		0.3		11.7	0.1			0.7	0.3	12.8	
22-Mar	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																			
	228	2108	2180	5196	5228	2141	2148	5	40	96	576	1.60		19.20	6.107	6.9		0.4	1.6	0.9		0.3		10.1				0.7	1.6	12.4	
	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																			
23-Mar	233	2148	2220	5092	5140	2181	2188	7	56			2.24																			
	232	2140	2212	5148	5228	2173	2180																								

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 VP's	Overlap VP's	Total VP's 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	Test, Troubleshoot & Other	Layout & Pickup	Prospect Move			Travel	Downtime
25-Mar	242	2220	2292	5228	5204	2253	2260	4	32			1.28																			
	241	2212	2284	5196	5092	2245	2252	14	112		666	4.48		26.64	8.474	8.4			2.0	0.6		0.3		11.3	0.2			0.8	0.5	12.8	
	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																			
26-Mar	245	2244	2316	5228	5156	2277	2284	9.25	74			2.96																			
	246	2252	2324	5228	5156	2285	2292	10	80			3.20																			
	245	2244	2316	5156	5092	2277	2284	8.75	70		678	2.80		27.12	8.626	8.2		0.2	2.1	0.6		0.3		11.4	0.1			0.7	0.2	12.4	
	246	2252	2324	5148	5092	2285	2292	8	64			2.56																			
	247	2260	2332	5092	5228	2293	2300	18	144			5.76																			
27-Mar	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																			
	249	2276	2348	5100	5092	2309	2316	2	16		576	0.64		23.04	7.329	7.6	0.5	0.2	2.2	0.6		0.3		11.4	0.4			0.7	0.2	12.7	camp move.
	250	2284	2356	5100	5092	2317	2324	2	16			0.64																			
28-Mar	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	</																		

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

Lines, Geometry and Production															Chargeable Hours										Non Chg Hrs						
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	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	Test, Troubleshoot & Other	Layout & Pickup	Prospect Move	Travel	Downtime	Total day Hrs	Comments
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	

	Lines, Geometry and Production														Chargeable Hours								Non Chg Hrs								
Date	Swath#	Rec. Line to	Rec. Line	Source Line to	Source Line	VP to	VP	#Traverses	# Production VP's	Overlap VP's	Total VP's 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	Test, Troubleshoot & Other	Layout & Pickup	Prospect Move	Travel	Downtime	Total day Hrs	Comments
6-Apr	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																			
	288	2588	2660	5156	5092	2621	2628	9	72	648		2.88		25.92	8.245		7.8	0.8	0.2	2.2	0.5		0.3		11.8	0.2		0.5	0.3	12.8	
	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																			
7-Mar	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																			
	293	2628	2700	5132	5228	2661	2668	13	104	648		4.16		25.92	8.245		8.6		0.1	2.3			0.3		11.3	0.1		0.3	0.5	12.2	
	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																			
8-Apr	297	2660	2732	5092	5228	2693	2700	18	144			5.76																			
	298	2668	2740	5300	5092	2701	2708	27	216	616		8.64		24.64	7.837		7.5		0.6	2.5	0.2		0.3		11.1	0.5		0.3		11.9	
	299	2676	2748	5092	5284	2709	2716	25	200			8.00																			
9-Apr	300	2684	2756	5092	5284	2717	2724	25	200			8.00																			
	299	2676	2748	5292	5300	2709	2716	2	16	7																					

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

Lines, Geometry and Production															Chargeable Hours										Non Chg Hrs													
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	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	Test, Troubleshoot & Other	Layout & Pickup	Prospect Move	Travel	Downtime	Total day Hrs	Comments							
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																										
13-Apr	313	2788	2860	5300	5204	2821	2828	13	104			4.16																										
	314	2796	2868	5300	5204	2829	2836	13	104			4.16																										
	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																										
15-Apr	321	2852	2892	5092	5204	2885	2892	15	120			4.80																										
	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																										
16-Apr	321	2852	2892	5212	5300	2885	2892	12	96			3.84																										
	TOTALS for APRIL 2007															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 VP's	Overlap VP's	Total VP's 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	Test, Troubleshoot & Other	Layout & Pickup	Prospect Move	Travel	Downtime				
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								
		11	S5132	51321940	28	8	1875								
19-Mar	" "	15	S5124	51241972	28	6	1929	6	11.00			1.00		12.00	
		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

									Hours						Comments
Date	Area	Hole#	Line	Stn# or Line Intersection	Depth Logged	Wx Depth	Vsw	Total Holes for Day	Work Hrs	Standby	Camp Move	Travel	Down	Total	
		57	R2348	23485380	34	16	1940								
20-Mar	" "	71	S5324	53242532	28	6	1771								
		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								
21-Mar		75	R2588	25885292	28	6	1755								
		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								
22-Mar	" "	56	S5172	51722347	40	18	1956								
		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								
23-Mar	" "	65	S5180	51802428	28	0-2	1996								
		62	S5180	51802396	28	0-2	1999								
		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								
24-Mar	" "	74	R2604	26045164	34	16	2003								
		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

									Hours						
Date	Area	Hole#	Line	Str# or Line Intersection	Depth Logged	Wx Depth	Vsw	Total Holes for Day	Work Hrs	Standby	Camp Move	Travel	Down	Total	Comments
		89	S5100	51002732	28	4	1966								
		87	S5148	51482716	28	10	1964								
26-Mar		82	S5140	51402684	28	4	1957	8	11.00			1.00		12.00	
		81	R2668	26685172	28	4	1926								
		83	S5212	52122684	28	4	1936								
		85	R2700	27005180	34	12	1773								
		90	S5204	52042740	26	4	1915								
		92	S5236	52362756	34	14	2275								
		91	S5180	51802756	28	8	2057								
		94	S5204	52042788	26	6	1915								
		99	S5148	51482804	28	2	1894								
		97	S5108	51082828	28	4	1795								
27-Mar		101	S5100	51002884	28	6	2140	6	10.00			1.25		11.25	complete uphole survey
		100	S5156	51562852	28	10	1760								
		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								
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

	DOZER # 5 (Komatsu D65EX)					DOZER # 6 (Komatsu D65EX & D7)					DOZER # 7 (Komatsu D65EX)					DOZER # 8 (Komatsu D65EX)					Gra #1 (JD)		Gra #2 (Ca)				
Date	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	Tot day Km	Comments	
Dec-06					2.00					1.00					2.00						2.00		1.00		2.00		c/m 11 hrs; stby induction 1 hr; stby wait coords 1 hr
14	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		
15	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		
16	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		
17	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		
18	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		
19																									0.00		
20																									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	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

	DOZER # 5 (Komatsu D65EX)					DOZER # 6 (Komatsu D65EX & D7)					DOZER # 7 (Komatsu D65EX)					DOZER # 8 (Komatsu D65EX)					Gra #1 (JD)		Gra #2 (Ca)			
Date	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	Tot day Km	Comments
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			###	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

	DOZER # 5 (Komatsu D65EX)					DOZER # 6 (Komatsu D65EX & D7)					DOZER # 7 (Komatsu D65EX)					DOZER # 8 (Komatsu D65EX)					Gra #1 (JD)		Gra #2 (Ca)			
Date	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	Tot day Km	Comments
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 main
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

	DOZER # 5 (Komatsu D65EX)					DOZER # 6 (Komatsu D65EX & D7)					DOZER # 7 (Komatsu D65EX)					DOZER # 8 (Komatsu D65EX)					Gra #1 (JD)		Gra #2 (Ca)			
Date	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	Tot day Km	Comments
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	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	
																									0.00	
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

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	137.60	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	EMP7 located on S5100 at fence crossing.
28			5084, 5092, 5100, 5108, 5116, 5124	24.80	24.80	2153.36	
Totals for FEBRUARY		521.76		506.72	1028.48		
March							
1			5100, 5164, 5172	17.92	17.92	2171.28	Complicated camp move
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	
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 FDUs 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**

TABLE OF CONTENTS

	<u>PAGE</u>
1. INTRODUCTION	
1.1 Geographical Area.....	4
1.2 Weather	5
1.3 Logistics.....	5
2. SURVEY	
2.1 Surveying / Chaining.....	6
2.2 Line Clearing.....	6
2.3 Permitting.....	6
3. RECORDING / PROCESSING	
3.1 Recording Parameters.....	7
3.2 Spinel 3D Progam Map.....	8
3.3 Recording	6
3.4 Processing.....	6
4. APPENDICES	
(A) Equipment Specifications	See Marker
(B) Vehicle Equipment List	See Marker
(C) Occupational Health & Safety Standards	See Marker
(D) Tape Listing	See Marker
(E) End of Contract HSE Report.....	See Marker
(F) Crew List.....	See Marker
(G) Crew Numbers.....	See Marker
(H) Daily Reports	See Marker
(I) Recording Statistics	See Marker

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

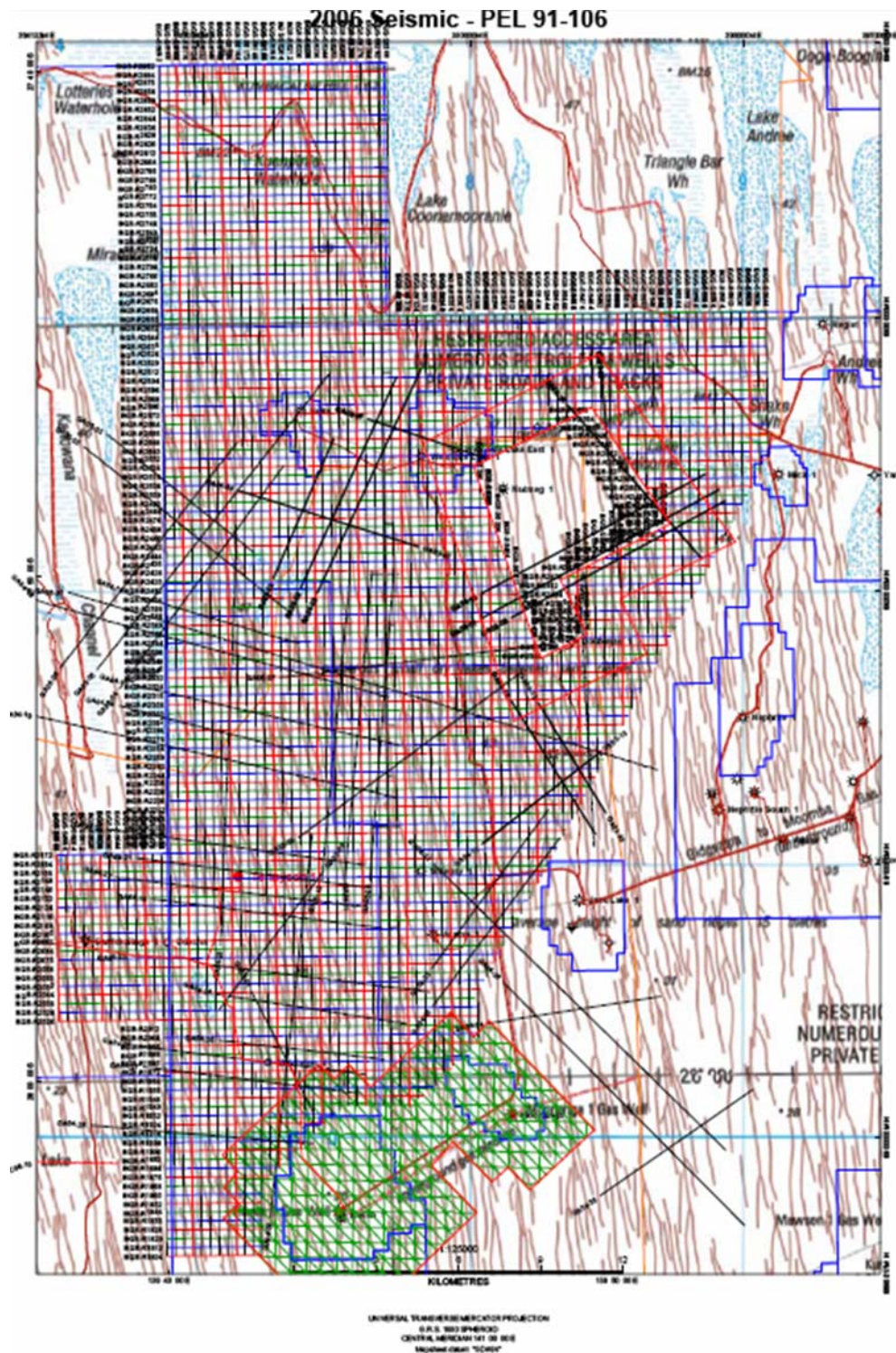
Receiver Data

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 FDUs 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	Tandam-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		Heat Stress Induction for 1 DSS (Surveyors) employee
30-January-2007	Spinel 3D Site Specific Induction		Ken Matthews incident reported (see reports page)
	Terrex Site Induction for 5 new employees	07-March-2007	Ken Matthews transported to Broken Hill by RFDS
	Heat Stress Induction for 5 new employees	08-March-2007	Crew Change - Re-inductions for 5 incoming personnel
31-January-2007	Lee-Ann Hunt incident reported (see reports page)		Terrex Site induction for 1 new employee (Field Crew)
01-February-2007	Terrex Site Induction for 3 new employees	09-March-2007	Heat Stress induction for 1 new employee
	Heat Stress Induction for 3 new employees		Ken Matthews transported from Broken Hill to normal place of residence.
04-February-2007	SOP training (Changing a wheel in the field)		Conducted Fire Contingency Training
05-February-2007	Terrex Site Induction for 1 new employee (APM)	11-March-2007	Chris Phillips incident reported (see reports page)
	Heat Stress Induction for 1 new employee (APM)	15-March-2007	Chris Phillips transported to BNE for a Dr. examination.
06-February-2007	De-pegging remainder of Neritus 3D Survey		Crew Change - Re-inductions for 4 incoming personnel
09-February-2007	Crew Change - Re-inductions for incoming personnel		Heat Stress induction for 1 new employee
	Terrex Site Induction for 1 new employee (Field Assistant)		Terrex Site induction for 1 new employee (Field Crew)
	Heat Stress Induction for 1 new employee (Field Assistant)		Conducted Fire Drill & Training (see Drills page)
11-February-2007	Emergency Response Training (Attending a motor vehicle accident)	16-March-2007	Crew Change - Re-inductions for 8 incoming personnel
	Completed 6 monthly Electrical Test & Tag (BroadSpectrum)	20-March-2007	Terrex Site induction for 1 new employee (Field Crew)
13-February-2007	Crew Change - Re-inductions for 7 incoming personnel	22-March-2007	Heat Stress induction for 1 new employee
15-February-2007	Terrex Site Induction for 2 old hands who returned		Timothy Hill first aid incident (see reports page)
	Heat Stress Induction for 2, as above, employees (Field Assistant)	23-March-2007	Camp Move
16-February-2007	DETEC Trainer arrives on site. (L Baas 4x4)	27-March-2007	Crew Change - Re-inductions for 8 incoming personnel
17-February-2007	DETEC Training commences. 6 crew.	29-March-2007	Crew put on stand-by until 12:30pm due to overnight rain.
18-February-2007	DETEC Training continues 10 crew.		Heat Stress induction for 2 new employees
	First Aid Training (Laceration, Penetration & Burn)		Terrex Site induction for 2 new employees (Field Crew)
19-February-2007	Doug Roberts Beach on site	30-March-2007	Terrex Site induction for 1 new employee (Cook)
	Ray Shaw & Chris Carty GAOG on site		DETEC Trainer Leo Baas on site
	Steve Tobin Terrex on site	31-March-2007	DETEC Training - 3 people.
	Terrex site induction for 1 old hand who returned	01-April-2007	DETEC Training - Terrex Seismic 6 people.
	Heat Stress Induction for 1, as above employee		DETEC Training - Terrex Contracting 3 people.
	Shane Charles first aid incident reported (see reports page)		Cody Brannelly first aid incident reported (see reports page)
22-February-2007	Heat Stress induction for 3 DSS personnel	02-April-2007	Conducted Sercel 428XL Equipment Training
	Crew Change - Re-inductions for incoming personnel		DETEC Training - Terrex Seismic 3 people.
	Terrex Site induction for 4 new employees (Field Crew)		David James incident reported (see reports page)
	Terrex Site induction for 1 new employee (Vibe Tech)		Medivac to Broken Hill Hospital for suspected snake bite
	Heat Stress Induction for 5 new, as above		Tommy Allen first aid incident reported (see reports page)
	Heat Stress Induction for 1 Terrex Contracting	04-April-2007	Crew Change - Re-inductions for 2 incoming personnel
	Terry Grocke in as Client representative	05-April-2007	Conducted Emergency Response Training
25-February-2007	Conducted fire drill & training (see Drills page)	08-April-2007	Crew Change - Re-inductions for 11 incoming personnel.
	Simon Feldheim incident reported (see reports page)	12-April-2007	Chris Carty GAOG on site.
26-February-2007	Simon Feldheim transported to normal place of residence for a Doctors examination.	12-April-2007	Conducted SOP Training - CAB004, GEN001, GEN002, RC004
	residence for a Doctors examination.	15-April-2007	Complete shooting
28-February-2007	Camp Move		Completed picking up of spread.
01-March-2007	Crew Change - Re-inductions for 7 incoming personnel	16-April-2007	Contract completed.
	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		

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

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

Report compiled by: Geoff Oswel HSE

INCIDENT REPORT



Prospect	Spinel 3D	Event Time	Event Date	28/01/2007
Client	Great Artesian Oil & Gas	Approx 8.00am	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
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 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	Event Date	31/01/2007
Client	Great Artesian Oil & Gas	11.00am	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 checked="" type="checkbox"/> Female
Basis of Employment	Full time	<input checked="" type="checkbox"/> Casual	Self-employed
Member of public			

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		<input type="checkbox"/> Member of public	
Bodily location of injury or worked caused illness					
Description Swelling and light bruising to left knee.					
Classification		Category			Site
Accident/Failure		Mechanism		Agency	Environmental
<input type="checkbox"/> Fatality		<input type="checkbox"/> Health		<input checked="" type="checkbox"/> Light Vehicle	<input type="checkbox"/> Spill / Leak
<input type="checkbox"/> Lost Time Incident		<input type="checkbox"/> Work Related Injury / Illness		<input type="checkbox"/> Heavy Vehicle	<input type="checkbox"/> Disposal
<input checked="" type="checkbox"/> Dangerous Event		<input checked="" type="checkbox"/> Work Related		<input type="checkbox"/> Chemicals	<input type="checkbox"/> Fire
<input type="checkbox"/> First Aid		<input type="checkbox"/> Medical Treatment		<input type="checkbox"/> Animal / Biological	<input type="checkbox"/> Reputation
<input type="checkbox"/> Lost		<input type="checkbox"/> Mental Stress		<input type="checkbox"/> Electrical / Power Tools	<input type="checkbox"/> Assets
		<input type="checkbox"/> Heat Stress		<input type="checkbox"/> Sound / Pressure	<input type="checkbox"/> Other (Explain)
Description of Facts					
<p>On the morning of Sunday 25th February 2007 Simon Feldheim and James Ansell were assigned to cable vehicle 092 IIU.</p> <p>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.</p> <p>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.</p> <p>James commenced to drive down the designated line.</p> <p>Simon commenced to throw off the cable.</p> <p>After about twenty meters the vehicle hit a small bump on the line.</p> <p>Simon lost balance and fell from the designated throwing area on the rear tray of the vehicle.</p> <p>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)</p> <p>Simon landed heavily on his left side. Pain was immediately experienced in the left knee.</p> <p>James assisted Simon and applied ice bricks and a crepe bandage to the knee.</p> <p>Simon continued to work; however, he only drove for the rest of the day, except that, he threw off one load at about 1600hours.</p> <p>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.</p> <p>At approx 1830 hours Simon returned to camp. Ice packs were applied and the knee re-banded.</p> <p>At approx 2350 hours Alan Stanley re-banded Simon's knee.</p> <p>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.</p> <p>Simon was advised to rest and apply ice packs at intervals through out the day.</p> <p>Arrangements for transportation to a doctor were initiated at approximately 1100 hours</p> <p>At 1300 hours Simon was transported to Moomba for flight.</p>					
Weather Conditions / Visibility					
Fine, warm and windy with wind increasing through the day.					
Corrective Action					
<i>For cases where no investigation is required, enter necessary corrective actions below</i>					
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 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

Photo's



Safety Bar Open

Vehicle 092 IIU



Safety Bar Closed

INCIDENT REPORT



Prospect	Spinel 3D	Event Time	Event Date
Client	Great Artesian Oil & Gas	2245 hrs approx	7/03/2007
Name of Reporter	Geoff Oswell	Position	Report Date
		HSE Advisor	08/03/07
		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.
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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	Event Date
Client	Great Artesian Oil & Gas	around 1159 hrs	Report Date
Name of Reporter	Geoff Oswell	Position	Report #
		HSE Advisor	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"/> Member of public	

Bodily location of injury or worked caused illness

Description	Left leg - Achilles tendon area - Rear of leg - from ankle to knee
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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 borough, 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 borough.

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.

DATE	NAME	COMPLAINT	COMMENTS	TREATMENT OR MEDICATION	CODE	FAC	MTI	RESTRICT DUTY	UNFIT FOR DUTY	RFDS REFER	MEDEVAC
07-Mar-07	Chris Phillips	Sore back of leg and cramping. Achilles tendon area.	Not told of any incident. Thought it was just sore from walking.	Simple stretching exercise.							
08-Mar-07	Chris Phillips	As above. Hurts when walk on heal.		Alan Stanley applied Dencorub & strapped whilst in field.							
09-Mar-07	Chris Phillips			Taken to Moomba for examination by RFDS rep. Light duties prescribed.							
11-Mar-07	Chris Phillips		Given Crutches	Whilst in Moomba again saw RFDS Rep.							
13-Mar-07	Chris Phillips			Taken to Moomba for examination by RFDS DR. Told to return him to Bne to get X-Rays & Ultra Sound.							
14-Mar-07	Chris Phillips		Told stepped on ground and ground gave way. Foot going to a rabbit warren. Stumbled	Complete rest for foot/leg.							
15-Mar-07	Chris Phillips			Flown out on crew change plane to Bne to obtain examination and treatment.	MUSC		Yes	Yes	No	Yes	No
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	Event Date
Client	GAOG	11:00pm	2/04/2007
Name of Reporter	Leeton McHugh	Position	Report Date
			3/04/2007
		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
<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 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 checked="" type="checkbox"/> Animal / Biological	<input type="checkbox"/> Electrical / Power Tools			<input type="checkbox"/> Hotel / Motel
<input type="checkbox"/> Lost	<input type="checkbox"/> Mental Stress	<input type="checkbox"/> Sound / Pressure			<input type="checkbox"/> Other (Explain)
	<input type="checkbox"/> Heat Stress				

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. KNGIPP 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 medevaced 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 Approx 10.00am	Event Date	19/02/2007
Client	Great Artesian Oil & Gas		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 checked="" type="checkbox"/>		Female									
Basis of Employment				Full time		<input checked="" type="checkbox"/>		Casual				Self-employed				Member of public	

Bodily location of injury or worked caused illness

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

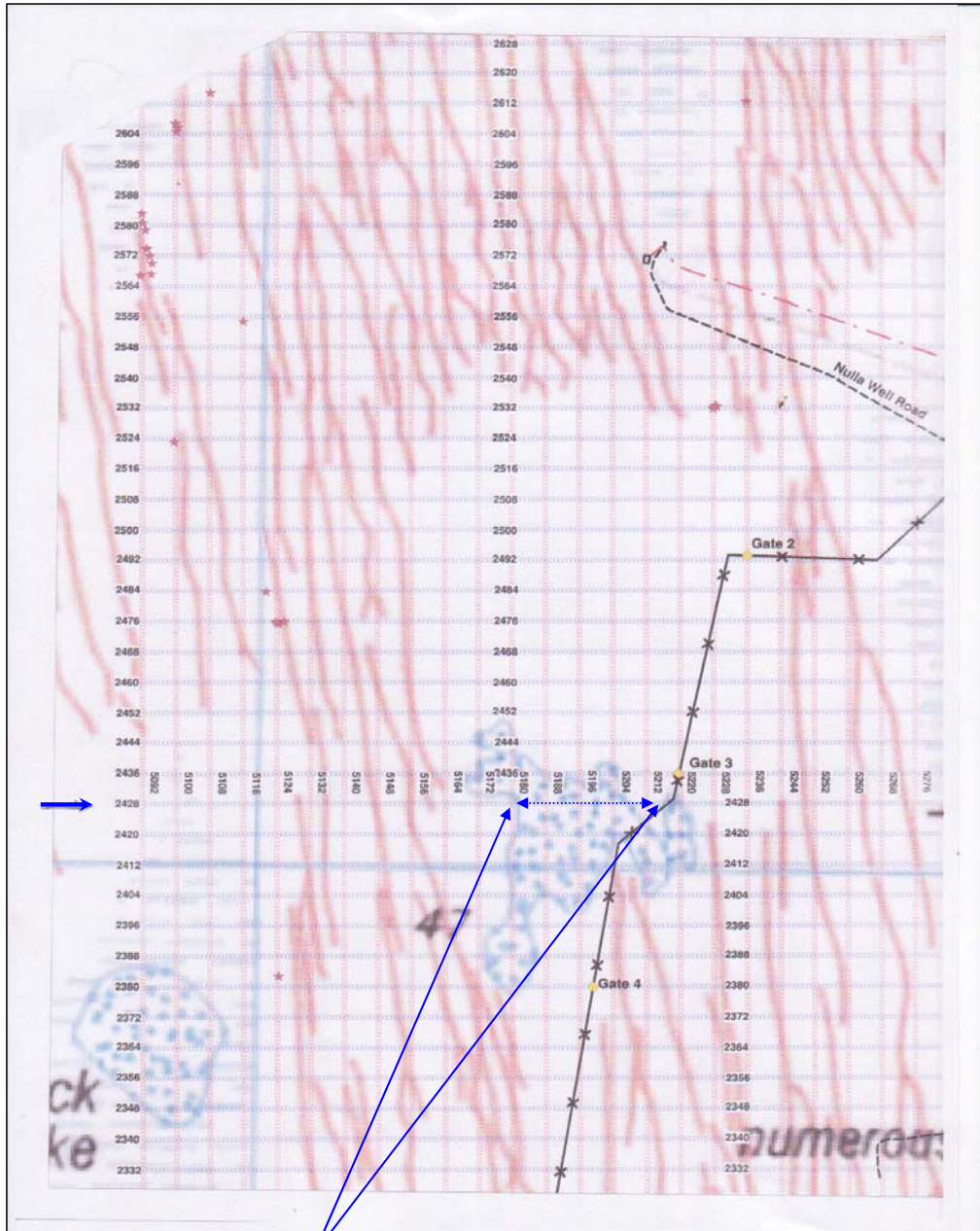
Item No.	Action Item	Person Responsible	Target Date	Completion Date	Remarks
1	Raise at Toolbox 20-02-07	HSE Advisor	20-Feb-07	20-Feb-07	Completed
2	Insert warning in Induction and re-induction file	HSE Advisor	20-Feb-07	20-Feb-07	Completed
3	Follow-up on Shane Charles' condition	HSE Advisor	20-Feb-07	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	Event Date	23/03/2007
Client	Great Artesian Oil & Gas	0800 hrs	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
<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 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"/> 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 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	Event Date	23/03/2007
Client	Great Artesian Oil & Gas	0800 hrs	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 ☒
 Vehicle Panel Condition ☒
 Cracked/indicators or lights broken ☒
 Tyre Condition/Pressure/Spare ☒
 Fire Extinguisher - Dry Powder (ABE)/Water ☒
 Shovel/Fire Rake ☒

Specific Problem - please give details

Under Bonnet & Fluid Levels
 Oil Level ☒ Coolant Level ☒
 Clutch Reservoir ☒ Brake Reservoir ☒
 P/Steering ☒ W/Screen Washer Tank ☒
 Fan Belt Tension ☒ Battery Security ☒

Inside Vehicle/Startup
 Tyre Changing Equipment ☒
 Jack/Handle ☒ Wheel Brace ☒
 Drinking Water ☒ Complete Radio Check ☒
 First Aid Kit ☒ Snake Bite Kit ☒
 Check Instruments and Fuel Levels ☒ Lights & Indicators (internal & external) ☒
 Seat Belt Condition/Operation ☒ Other ☐

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 ☐
 Vehicle Panel Condition ☐
 Cracked/indicators or lights broken ☐
 Tyre Condition/Pressure/Spare ☐
 Fire Extinguisher - Dry Powder (ABE)/Water ☐
 Shovel/Fire Rake ☐

Specific Problem - please give details
DRIVER'S SIDE - SAFETY
BAR & GUIDE SUPPORT.

Under Bonnet & Fluid Levels
 Oil Level ☐ Coolant Level ☐
 Clutch Reservoir ☐ Brake Reservoir ☐
 P/Steering ☐ W/Screen Washer Tank ☐
 Fan Belt Tension ☐ Battery Security ☐

Inside Vehicle/Startup
 Tyre Changing Equipment ☐
 Jack/Handle ☐ Wheel Brace ☐
 Drinking Water ☐ Complete Radio Check ☐
 First Aid Kit ☐ Snake Bite Kit ☐
 Check Instruments and Fuel Levels ☐ Lights & Indicators (internal & external) ☐
 Seat Belt Condition/Operation ☐ Other ☐

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
Client	GAOG	13:00	30/03/2007
Name of Reporter	Leeton McHugh	Position	Report Date
		HSEM	1/04/2007
			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 STARTED TO HURT WHEN I WAS KNEE DEEP IN THE SALT LAKE. IT HAPPENED ON FRIDAY THE 30TH AT ABOUT 1 O'CLOCK.

Cody BRANNELLY

[Signature]

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

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"/> 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 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	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

CLINIC ATTENDANCE

[illegible]

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

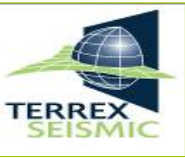
APPENDIX G

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	Party Manager..	Mark Kneipp
	Survey Name.	Spinel 3D	Client Rep.....	Bruce Beer
	Area.....	PEL's 91 - 106	Weather.....	Fine / Mild
	State.....	SA	DATE.....	24-Jan-07
CREW 402				

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 - 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:	Standby Time - Toolbox/Safety Meeting: 0.3 Induction: Weather: 9.7 Other:	Fixed Charge - Mobilisation: Spread Layout/Pickup: Crew Demobe/Remobe:		Daily Totals Working Time: 0.0 Standby Time: 10.0 Down Time: 0.0 Non-Charge Time: 0.0 Total Day Hrs: 10.0 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
Non-Charge Time - Travel Time:					

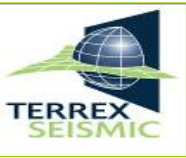
COMMENTS: *Road Closures to Toolachee Rd & Jack Lake Rd for heavy vehicles are still stopping mobilisation to prospect. *Road closures being reviewed on a regular basis	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="4" style="text-align: left;">Spread Movement</td> </tr> <tr> <td colspan="2">Client: GAOG Spirel 3D</td> <td colspan="2">Date: Wednesday, 24 January 2007</td> </tr> <tr> <td colspan="2" style="text-align: center;">Layout</td> <td colspan="2" style="text-align: center;">Pickup</td> </tr> <tr> <td>Line</td> <td>Station #</td> <td>Tot</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2" style="text-align: right;">Total Stations :</td> <td>0</td> <td></td> </tr> <tr> <td colspan="2" style="text-align: right;">Total Stations:</td> <td>0</td> <td></td> </tr> </table>	Spread Movement				Client: GAOG Spirel 3D		Date: Wednesday, 24 January 2007		Layout		Pickup		Line	Station #	Tot																		Total Stations :		0		Total Stations:		0	
Spread Movement																																									
Client: GAOG Spirel 3D		Date: Wednesday, 24 January 2007																																							
Layout		Pickup																																							
Line	Station #	Tot																																							
Total Stations :		0																																							
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 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 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 _____
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	Terrex Seismic Daily Report			
	Client.....	GAOG	Party Manager..	CREW 402
	Survey Name.	Spinel 3D	Client Rep.....	Mark Kneipp
	Area.....	PEL's 91 - 106	Weather.....	Bruce Beer
State.....	SA	DATE.....	Fine / Mild	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 -	
Recording:		Human Error:		Toolbox/Safety Meeting:	0.3
Requested Experimental:		Troubleshooting:		Induction:	
Recorder Moveup:		Recorder:		Weather:	9.7
Waiting on Spread:		Vibes:		Other:	
Vibe Detour:		WOS:			
Terrain Detour:		Tests / Other:		Fixed Charge -	
Traverse Move:				Mobilisation:	
Panel Move:		Non-Charge Time -		Spread Layout/Pickup:	
Swath Move:		Travel Time:		Crew Demobe/Remobe:	
Other:					
					Daily Totals Working Time: 0.0 Standby Time: 10.0 Down Time: 0.0 Non-Charge Time: 0.0 Total Day Hrs: 10.0 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

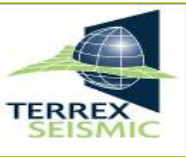
COMMENTS: *Road Closures to Toolachee Rd & Jack Lake Rd for heavy vehicles are still stopping mobilisation to prospect. *Road closures being reviewed on a regular basis	Spread Movement					
	Client: GAOG Spirel 3D		Date: Thursday, 25 January 2007			
	Layout		Pickup			
	Line	Station #	Tot	Line	Station #	Tot
Total Stations :		0	Total Stations:		0	
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		
							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 _____
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	Terrex Seismic Daily Report			
	Client.....	GAOG	Party Manager..	CREW 402
	Survey Name.	Spinel 3D	Client Rep.....	Mark Kneipp
	Area.....	PEL's 91 - 106	Weather.....	Bruce Beer
State.....	SA	DATE.....	Fine / Mild	26-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 -	
Recording:		Human Error:		Toolbox/Safety Meeting: 0.3	
Requested Experimental:		Troubleshooting:		Induction:	
Recorder Moveup:		Recorder:		Weather: 9.7	
Waiting on Spread:		Vibes:		Other:	
Vibe Detour:		WOS:			
Terrain Detour:		Tests / Other:			
Traverse Move:				Fixed Charge -	
Panel Move:				Mobilisation:	
Swath Move:		Non-Charge Time -		Spread Layout/Pickup:	
Other:		Travel Time:		Crew Demobe/Remobe:	
					Daily Totals
					Working Time: 0.0
					Standby Time: 10.0
					Down Time: 0.0
					Non-Charge Time: 0.0
					Total Day Hrs: 10.0
					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

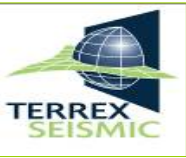
COMMENTS: *Road Closures Jack Lake Rd for heavy vehicles are still stopping mobilisation to prospect. *Road closures being reviewed on a regular basis * Toolachee road has been cleared to single trailer trucks as of this afternoon, and TC has scouted the back road to the camp site. Will be mobilising to Prospect Tom. (Sat) morning.	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="8" style="text-align: left;">Spread Movement</td> </tr> <tr> <td colspan="4">Client: GAOG Spirel 3D</td> <td colspan="4">Date: Friday, 26 January 2007</td> </tr> <tr> <td colspan="4" style="text-align: center;">Layout</td> <td colspan="4" style="text-align: center;">Pickup</td> </tr> <tr> <td>Line</td> <td>Station #</td> <td colspan="2">Tot</td> <td>Line</td> <td>Station #</td> <td colspan="2">Tot</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td colspan="2" style="text-align: right;">Total Stations :</td> <td colspan="2">0</td> <td colspan="2" style="text-align: right;">Total Stations:</td> <td colspan="2">0</td> </tr> <tr> <td colspan="4">Equipment Report</td> <td colspan="4">Bad Phones: 0</td> </tr> <tr> <td colspan="4"></td> <td colspan="4">Bad Cable:</td> </tr> </table>	Spread Movement								Client: GAOG Spirel 3D				Date: Friday, 26 January 2007				Layout				Pickup				Line	Station #	Tot		Line	Station #	Tot																																		Total Stations :		0		Total Stations:		0		Equipment Report				Bad Phones: 0								Bad Cable:			
Spread Movement																																																																																									
Client: GAOG Spirel 3D				Date: Friday, 26 January 2007																																																																																					
Layout				Pickup																																																																																					
Line	Station #	Tot		Line	Station #	Tot																																																																																			
Total Stations :		0		Total Stations:		0																																																																																			
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	
							Biovix	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 _____
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	Terrex Seismic Daily Report			
	Client.....	GAOG	Party Manager..	CREW 402
	Survey Name.	Spinel 3D	Client Rep.....	Mark Kneipp
	Area.....	PEL's 91 - 106	Weather.....	Bruce Beer
State.....	SA	DATE.....	Fine / Mild/Windy	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 - 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:	Standby Time - Toolbox/Safety Meeting: 0.3 Induction: Weather: Other: Mobilisation: 15.3 Spread Layout/Pickup: 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: 15.6
					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

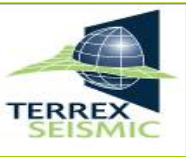
COMMENTS: *Mobilised to the Spinel 3D prospect, leaving the Scrotus 2D site at 0915 and arriving at the new site at 1900. Camp was set up and functional by 2200. *Diversified started floating vibes on early AM, 1st vibe arrived to Spinel at 1900. Expect next vibe late tomorrow. *Coldroom has broken down 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.	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="6" style="text-align: left;">Spread Movement</td> </tr> <tr> <td colspan="3">Client: GAOG Spirel 3D</td> <td colspan="3">Date: Saturday, 27 January 2007</td> </tr> <tr> <td colspan="3" style="text-align: center;">Layout</td> <td colspan="3" style="text-align: center;">Pickup</td> </tr> <tr> <td>Line</td> <td>Station #</td> <td>Tot</td> <td>Line</td> <td>Station #</td> <td>Tot</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td colspan="2">Total Stations :</td> <td>0</td> <td colspan="2">Total Stations:</td> <td>0</td> </tr> <tr> <td colspan="2">Equipment Report</td> <td>Bad Phones: 0</td> <td colspan="2">Bad Cable:</td> <td></td> </tr> </table>	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:		
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:																																																				

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		
							Personal Driller Offsider Offsider Offsider		
							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		
							Personal Logger		
							Comments:		

Crew Manager 	Client Rep _____
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	Terrex Seismic Daily Report			
	Client.....	GAOG	Party Manager..	CREW 402
	Survey Name.	Spinel 3D	Client Rep.....	Mark Kneipp
	Area.....	PEL's 91 - 106	Weather.....	Bruce Beer
State.....	SA	DATE.....	Fine / Mild/Windy	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 -	
Recording:	Human Error:	Toolbox/Safety Meeting:	0.3		
Requested Experimental:	Troubleshooting:	Induction:	0.7		
Recorder Moveup:	Recorder:	Weather:			
Waiting on Spread:	Vibes:	Other:			
Vibe Detour:	WOS:				
Terrain Detour:	Tests / Other:				
Travel Move:		Other -			
Panel Move:		Mobilisation:	3.2 *Finish setting up camp		
Swath Move:		Intraprospect Move:			
Other:		Spread Layout/Pickup:	7.0		
		Crew Demobe/Remobe:			
				Daily Totals Working Time: 0.0 Standby Time: 1.0 Down Time: 0.0 Non-Charge Time: 1.0 Total Day Hrs: 12.2 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 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
	2236	5373	5476	104	0	0
2244	5373	5476	104	0	0	
2252	5373	5476	104	0	0	
2260	5373	5476	104	0	0	
2268	5373	5476	104	0	0	
Total Stations : 629		Total Stations: 0				
Equipment Report		Bad Phones: 0		Bad Cable:		

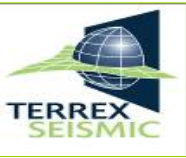
DSS & TERREX CONTRACTING - LINE PREPARATION									
DOUBLE CLICK THE ICON BELOW TO DISPLAY REPORT.									
COMMENTS: Continue Production									

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	
							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	

EXPERTEST - LOGGING PRODUCTION									
							Hrs	Work	0.00
							Standby	0.00	
							Downtime	0.00	
							Klm 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:	
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Crew Manager 	Client Rep _____
--	------------------



Terrex Seismic

Daily Report

Client.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

CREW 402

Party Manager.....

Client Rep.....

Weather.....

DATE.....

Mark Kneipp

Bruce Beer

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

HOOURS

Working Time -		Down Time -		Standby Time -		Daily Totals	
Recording:	3.9	Human Error:		Toolbox/Safety Meeting:	0.3	Working Time:	4.1
Requested Experimental:		Troubleshooting:		Induction:		Standby Time:	0.3
Recorder Moveup:		Recorder:		Weather:		Down Time:	0.4
Waiting on Spread:		Vibes:	0.1	Other:		Non-Charge Time:	0.5
Vibe Detour:		WOS:				Total Day Hrs:	12.4
Terrain Detour:		Tests / Other:	0.3	Other -		Cumulative Totals	
Traverse Move:	0.2			Mobilisation:	7.1 *Initial layout, waiting for 3rd vibe	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:

*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.



C:\terrexshare\Terrex\Crew 402\VP

COMMENTS: Continue Production

SCANLONS - DRILLING PRODUCTION

Uphole #	PEL #	Line #	Stn	Hole Depth	Depth Wx	Velocity	Hrs	Work	Standby	Travel Hrs	Downtime
								0.00	0.00	0.00	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		
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	Standby	Downtime	Kim Trav	Trav Hrs
		0.00	0.00	0.00	0.00	0.00
Personal						
Logger						
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..... 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:		Other -	
Traverse Move:	1.1			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: 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 Spinel 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
								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.. Mark Kneipp
Client Rep..... Bruce Beer
Weather..... Fine / Warm
DATE..... 31-Jan-07

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's
6	5476	2228-2268	0.3200	0	8
7	5476	2228-2276	0.3200	0	8
8	5476	2228-2284	0.3200	0	8
9	5476	2228-2292	0.3200	0	8
10	5476	2228-2300	0.3200	0	8
11	5476-5372	2228-2308	4.48	0	112
12	5476-5372	2228-2316	4.48	0	112
13	5372-5476	2228-2324	4.48	0	112
14	5372-5476	2228-2332	4.48	0	112

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.Klm: 495.900
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 -	
Recording:	8.1	Human Error:	0.2	Toolbox/Safety Meeting:	0.3
Requested Experimental:		Troubleshooting:	0.3	Induction:	
Recorder Moveup:	0.4	Recorder:		Weather:	
Waiting on Spread:		Vibes:	0.2	Other:	
Vibe Detour:	0.6	WOS:			
Terrain Detour:		Tests / Other:		Other -	
Traverse Move:	2.0			Mobilisation:	
Panel Move:		Non-Charge Time -		Intraprospect Move:	
Swath Move:	0.4	Travel Time:	0.3	Spread Layout/Pickup:	
Other:				Crew Demobe/Remobe:	

Daily Totals
Working Time: 11.5
Standby Time: 0.3
Down Time: 0.7
Non-Charge Time: 0.3
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:

* 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

Equipment Report Bad Phones: 5 Bad Cable: 0

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	0.00
								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	0.00
								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 / Hot
DATE..... 01-Feb-07

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's
15	5476-5372	2228-2340	4.48	0	112
16	5476-5372	2236-2348	4.48	0	112
17	5372-5476	2244-2356	4.48	0	112
18	5372-5476	2252-2364	4.12	0	103
19	5444-5476	2260-2372	1.20	0	30
20	5460-5476	2268-2380	0.56	0	14

Daily Totals
VP's: 483
Skips: 0
Lin.Kms: 19.3200
Day Sq.Klms: 6.1453

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: 165.300

HOURS

Working Time -		Down Time -		Standby Time -	
Recording:	8.3	Human Error:	0.1	Toolbox/Safety Meeting:	0.3
Requested Experimental:		Troubleshooting:	0.2	Induction:	
Recorder Moveup:		Recorder:	0.1	Weather:	
Waiting on Spread:		Vibes:		Other:	
Vibe Detour:	1.2	WOS:			
Terrain Detour:		Tests / Other:			
Traversal Move:	2.1			Other -	
Panel Move:		Non-Charge Time -		Mobilisation:	
Swath Move:	0.2	Travel Time:	0.4	Intraprospect Move:	
Other:				Spread Layout/Pickup:	
				Crew Demobe/Remobe:	

Daily Totals
Working Time: 11.8
Standby Time: 0.3
Down Time: 0.4
Non-Charge Time: 0.4
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:

* 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 Spinel 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
								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	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:

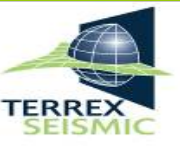
EXPERTEST - LOGGING PRODUCTION

	Hrs	Work	0.00
		Standby	0.00
		Downtime	0.00
		Klm 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

Party Manager..

Mark Kneipp

Client Rep.....

Bruce Beer

Weather.....

Fine / Hot

DATE.....

02-Feb-07

CREW 402

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's	
19	5324-5420	2260-2372	2.24	0	56	
20	5324-5412	2268-2380	2.16	0	54	
21	5412-5324	2276-2388	1.92	0	48	
22	5412-5324	2284-2396	1.92	0	48	
23	5412-5324	2292-2404	1.88	0	47	
24	5404-5364	2300-2412	1.6	0	40	
25	5404-5364	2308-2420	1.60	0	40	
26	5404-5364	2316-2428	1.60	0	40	
27	5404	2324-2436	0.04	0	1	

Daily Totals

VP's: 374

Skips: 0

Lin.Kms: 14.9600

Day Sq.Klms: 4.7585

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: 123.975

HOURS

Working Time -	Down Time -	Standby Time -	
Recording: 8.6	Human Error: 0.2	Toolbox/Safety Meeting: 0.3	
Requested Experimental:	Troubleshooting: 0.2	Induction:	
Recorder Moveup: 0.4	Recorder: 0.2	Weather:	
Waiting on Spread:	Vibes:	Other:	
Vibe Detour: 0.8	WOS:		
Terrain Detour:	Tests / Other:	Other -	
Traverse Move: 1.7		Mobilisation:	
Panel Move:	Non-Charge Time -	Intraprospect Move:	
Swath Move: 0.3	Travel Time: 0.4	Spread Layout/Pickup:	
Other:		Crew Demobe/Remobe:	

Daily Totals

Working Time: 11.8

Standby Time: 0.3

Down Time: 0.6

Non-Charge Time: 0.4

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:

* 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 cresh. Human error DT is mainly from fat finger slipups in recorder. Working extra hrs in day to make up for them.

*Mechanic to Moomba to pick up freight.

Spread Movement

Client: GAOG Spirel 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		

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
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
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:

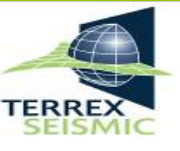
EXPERTEST - LOGGING PRODUCTION

	Hrs	Work	0.00
		Standby	0.00
		Downtime	0.00
		Kim Trav	0.00
		Trav Hrs	0.00
Personal	Consum	Holecaps	0
Logger		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.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

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		
32	5388-5324	2354-2480	0.96	0	24		
33	5388-5324	2362-2488	0.76	0	19		Cumulative Totals
34	5380-5324	2370-2494	0.64	0	16		Cum. VP's: 38956
35	5380	2378-2502	0.32	0	8		Cum.Lin.Kms: 1559.040
36	5380	2386-2510	0.1600	0	4		Cum.Sq.Klm: 495.900
							Lin.Kms.Remaining: 0.000
							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
Requested Experimental:		Troubleshooting:		Induction:		Standby Time:	0.3
Recorder Moveup:	0.4	Recorder:	0.5	Weather:		Down Time:	0.6
Waiting on Spread:		Vibes:		Other:		Non-Charge Time:	0.4
Vibe Detour:	0.6	WOS:				Total Day Hrs:	13.5
Terrain Detour:		Tests / Other:		Other -		Cumulative Totals	
Traverse Move:	1.1			Mobilisation:		Working Time(Job):	820.0
Panel Move:		Non-Charge Time -		Intraprospect Move:		Standby Time(Job):	78.7
Swath Move:	0.3	Travel Time:	0.4	Spread Layout/Pickup:		Down Time(Job):	48.4
Other:				Crew Demobe/Remobe:		Non-Charge Time(Job):	42.0
						Total Hrs (Job):	1037.8

COMMENTS:

* 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
								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

Personal

Driller

Driller

Offsider

Offsider

Offsider

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

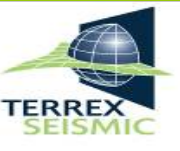
Personal

Logger

COMMENTS:

Crew Manager

Client Rep



**TERREX
SEISMIC**

Terrex Seismic
Daily Report

CREW 402

Client.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

Party Manager.. Mark Kneipp

Client Rep..... Bruce Beer

Weather..... Fine / Hot

DATE..... 04-Feb-07

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's	
35	5372-5324	2378-2502	0.32	0	8	
36	5372-5324	2386-2510	0.32	0	8	
37	5372-5324	2394-2518	0.32	0	8	
38	5372-5324	2402-2526	0.32	0	8	
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	

Daily Totals

VP's: 38

Skips: 0

Lin.Kms: 1.5200

Day Sq.Klms: 0.4835

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 -		
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:		Other -		Cumulative Totals
Traverse Move:	0.8			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:

* 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	
								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	
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	
		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.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 / Hot
DATE..... 05-Feb-07

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's
44	5372	2450-2574	0.08	0	2
45	5364-5388	2458-2582	0.64	0	16
46	5364-5404	2466-2590	1.28	0	32
47	5420-5324	2474-2598	1.92	0	48
48	5324-5436	2482-2606	2.56	0	64
49	5324-5452	2490-2614	3.2	0	80
50	5468-5324	2498-2622	3.88	0	97
51	5476-5324	2506-2630	4.48	0	112

Daily Totals
VP's: 451
Skips: 0
Lin.Kms: 18.0400
Day Sq.Klms: 5.7382

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: 70.843

HOURS

Working Time -		Down Time -		Standby Time -	
Recording:	9.5	Human Error:		Toolbox/Safety Meeting:	0.3
Requested Experimental:		Troubleshooting:	0.1	Induction:	
Recorder Moveup:		Recorder:	0.2	Weather:	
Waiting on Spread:		Vibes:		Other:	
Vibe Detour:	0.7	WOS:			
Terrain Detour:		Tests / Other:		Other -	
Traverse Move:	1.2			Mobilisation:	
Panel Move:		Non-Charge Time -		Intraprospect Move:	
Swath Move:	0.2	Travel Time:	0.6	Spread Layout/Pickup:	
Other:				Crew Demobe/Remobe:	

Daily Totals
Working Time: 11.6
Standby Time: 0.3
Down Time: 0.3
Non-Charge Time: 0.6
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 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	5424	52
2700	5300	5181	120	2508	5373	5421	49
2708	5300	5280	21	2516	5373	5419	47
Total Stations :			220	Total Stations:			148
Equipment Report			Bad Phones:	6	Bad Cable:		0

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
Total Holes							0	Charge	0.00
Cum.Holes Drilled							0	Cum.Charge.Hrs (Job)	0.00
								Cum.Stby.Hrs (Job)	0.00
Holes Today							0	Cum.Trav.Hrs (Job)	0.00
Holes Remaining							0		
								Consum	Biovis
									4 x 3/4
									5 x 1/8
									Tri Cone 4 3/4
									Aqua gel
									Mtr
									Cum.Mtrs. (Job)

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 / Hot
DATE..... 06-Feb-07

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's
52	5476-5324	2564-2636	4.48	0	112
53	5364-5388	2572-2644	4.48	0	112
54	5364-5404	2580-2652	4.48	0	112
55	5420-5324	2588-2660	4.48	0	112
56	5476-5444	2596-2660	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.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 -	
Recording:	9.1	Human Error:	0.1	Toolbox/Safety Meeting:	0.3
Requested Experimental:		Troubleshooting:	0.1	Induction:	
Recorder Moveup:	0.3	Recorder:		Weather:	
Waiting on Spread:		Vibes:		Other:	
Vibe Detour:	1.7	WOS:			
Terrain Detour:		Tests / Other:		Other -	
Travel Move:	0.9			Mobilisation:	
Panel Move:		Non-Charge Time -		Intraprospect Move:	
Swath Move:		Travel Time:	0.6	Spread Layout/Pickup:	
Other:				Crew Demobe/Remobe:	

Daily Totals
Working Time: 12.0
Standby Time: 0.3
Down Time: 0.2
Non-Charge Time: 0.6
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 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	0.00
								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	0.00
		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.....
Survey Name.
Area.....
State.....

GAOG
Spinel 3D
PEL's 91 - 106
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
56	5436-5324	2596-2660	2.88	0	72
57	5324-5476	2604-2660	4.48	0	112
58	5476-5324	2612-2660	4.48	0	112
59	5324-5476	2620-2660	4.48	0	112

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: 55.100

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:	1.1	Recorder:		Weather:	
Waiting on Spread:		Vibes:		Other:	
Vibe Detour:	1.0	WOS:		Other -	
Terrain Detour:		Tests / Other:			
Traverse Move:	1.5				
Panel Move:		Non-Charge Time -		Mobilisation:	
Swath Move:	0.1	Travel Time:	0.6	Intraprospect Move:	
Other:				Spread Layout/Pickup:	
				Crew Demobe/Remobe:	

Daily Totals
Working Time: 11.4
Standby Time: 0.3
Down Time: 0.1
Non-Charge Time: 0.6
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 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
Total Holes							0	Charge	0.00
Cum.Holes Drilled							0	Cum.Charge.Hrs (Job)	0.00
								Cum.Stby.Hrs (Job)	0.00
Holes Today							0	Cum.Trav.Hrs (Job)	0.00
Holes Remaining							0		
								Consum	Biovis
									4 x 3/4
									5 x 1/8
									Tri Cone 4 3/4
									Aqua gel
									Mtr
									Cum.Mtrs. (Job)

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 / Hot
DATE..... 08-Feb-07

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's
60	5300-5236	2732-2660	2.88	0	72
61	5236-5300	2724-2652	2.88	0	72
62	5300-5236	2716-2644	2.88	0	72
63	5236-5300	2708-2636	2.88	0	72
64	5300-5236	2700-2628	2.88	0	72

Daily Totals
VP's: 360
Skips: 0
Lin.Kms: 14.4000
Day Sq.Klms: 4.5804

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 -	
Recording:	4.2	Human Error:	0.1	Toolbox/Safety Meeting:	0.3
Requested Experimental:		Troubleshooting:	1.2	Induction:	
Recorder Moveup:		Recorder:		Weather:	
Waiting on Spread:	2.1	Vibes:		Other:	
Vibe Detour:	0.3	WOS:	0.7		
Terrain Detour:		Tests / Other:		Other -	
Traverse 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:	

Daily Totals
Working Time: 10.1
Standby Time: 0.3
Down Time: 2.0
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:

* 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 aquire 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.Charge.Hrs (Job)	0.00
								Cum.Stby.Hrs (Job)	0.00
								Cum.Trav.Hrs (Job)	0.00
								Consum	0.00
								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
		Klm Trav	0.00
		Trav Hrs	0.00
		Consum	0.00
		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..... 09-Feb-07

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's
65	5236-5240	2692-2620	5.44	0	136
66	5240-5236	2684-2612	5.44	0	136
67	5236-5348	2676-2604	4.8	0	120

Daily Totals
VP's: 392
Skips: 0
Lin.Kms: 15.6800
Day.Sq.Klms: 4.9875

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: 45.082

HOURS

Working Time -		Down Time -		Standby Time -	
Recording:	7.9	Human Error:		Toolbox/Safety Meeting:	0.3
Requested Experimental:		Troubleshooting:		Induction:	
Recorder Moveup:		Recorder:	0.3	Weather:	
Waiting on Spread:		Vibes:		Other:	1.6
Vibe Detour:	0.1	WOS:			
Terrain Detour:		Tests / Other:			
Traverse Move:	2.3				
Panel Move:					
Swath Move:	0.1	Non-Charge Time -			
Other:		Travel Time:	0.6		

Daily Totals
Working Time: 10.4
Standby Time: 1.9
Down Time: 0.3
Non-Charge Time: 0.6
Total Day Hrs: 13.2
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 504 vps taken(112 vps overlap, 392 vps recorded)
* 1.6 hrs standby from troubleshooting stock damage to spread that occurred overnight
* Vibes have been split into 2 groups of 2 @ 4 sweeps where needed to lessen detours around some large dunes that occur on this panel. This will increase recording time but reduce detour and traverse time.
* Supply driver to Moomba for freight run, Mansells dropped the food order off in camp as well.

Spread Movement

Client: GAOG Spinel 3D

Date: Friday, 9 February 2007

Layout				Pickup			
Line	Station #	Tot		Line	Station #	Tot	
2612	5372	5181	192	2716	5300	5181	120
2604	5372	5181	192	2708	5300	5181	120
2596	5372	5181	192	2700	5300	5181	120
2588	5372	5181	192	2692	5300	5181	120
			1	2684	5300	5181	120
			1				1
			1				1
							1
							1
Total Stations :			768	Total Stations:			600

Total Crew #'s: 44

Line crew #'s: 24

Light Vehicle #'s: 20

Equipment Report

Bad Phones: 7

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	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

Driller
Driller
Offsider
Offsider
Offsider

Holes Today
Holes Remaining

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
--------	----------	---

Personal

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.....
Survey Name.....
Area.....
State.....

GAOG
Spinel 3D
PEL's 91 - 106
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:		
Swath Move: 0.2	Non-Charge Time -	Intraprospect Move:
Other:	Travel Time: 0.5	Spread Layout/Pickup:
		Crew Demobe/Remobe:

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

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

Personal
Driller
Driller
Offsider
Offsider
Offsider

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

Personal
Logger

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	2628-2556	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.Klm: 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:	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:		

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 Spinel 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	

Total Crew #'s: 46

Line crew #'s: 26

Light Vehicle #'s: 20

Equipment Report

Bad Phones: 9

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

Personal
Driller
Driller
Offsider
Offsider
Offsider

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

Personal
Logger

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		CREW 402	
		Client..... GAOG Survey Name..... Spinel 3D Area..... PEL's 91 - 106 State..... SA	Party Manager.. Mark Kneipp Client Rep..... Bruce Beer Weather..... Fine / Hot DATE..... Monday, 12 February 2007		

PRODUCTION							
Swath	Source	Receiver	Kms.	Skips	Vp's	Daily Totals	
72	5244-5236	2636-2564	0.64	0	16	VP's: 512	
73	5244-5236	2628-2556	0.64	0	16	Skips: 0	
74	5236-5364	2620-2548	5.44	0	136	Lin.Kms: 20.4800	
75	5364-5236	2612-2540	5.44	0	136	Day.Sq.Klms: 6.5143	
76	5340-5236	2604-2532	4.48	0	112		
77	5236-5324	2596-2524	3.84	0	96		
						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 -		Daily Totals	
Recording: 7.8		Human Error:		Toolbox/Safety Meeting: 0.3		Working Time: 11.6	
Requested Experimental:		Troubleshooting: 0.1		Induction:		Standby Time: 0.3	
Recorder Moveup:		Recorder: 0.3		Weather:		Down Time: 0.4	
Waiting on Spread:		Vibes:		Other:		Non-Charge Time: 0.3	
Vibe Detour: 0.9		WOS:				Total Day Hrs: 12.6	
Terrain Detour:		Tests / Other:		Other -		Cumulative Totals	
Traverse Move: 2.8				Mobilisation:		Working Time(Job): 820.0	
Panel Move:		Non-Charge Time -		Intraprospect Move:		Standby Time(Job): 78.7	
Swath Move: 0.1		Travel Time: 0.3		Spread Layout/Pickup:		Down Time(Job): 48.4	
Other:				Crew Demobe/Remobe:		Non-Charge Time(Job): 42.0	
						Total Hrs (Job): 1037.8	

COMMENTS: * 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 Spinel 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				

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	
								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
								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 _____
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		Terrex Seismic Daily Report		CREW 402	
		Client..... GAOG	Party Manager.. Mark Kneipp		
Survey Name.....		Spinel 3D	Client Rep..... Bruce Beer		
Area.....		PEL's 91 - 106	Weather..... Fine / Warm		
State.....		SA	DATE.....	Tuesday, 13 February 2007	

PRODUCTION							
Swath	Source	Receiver	Kms.	Skips	Vp's	Daily Totals	
76	5348-5364	2604-2532	0.96	0	24	VP's: 448	
77	5332-5364	2596-2524	1.6	0	40	Skips: 0	
78	5364-5236	2596-2516	5.44	0	136	Lin.Kms: 17.9200	
79	5364-5236	2588-2508	5.44	0	136	Day.Sq.Klms: 5.7000	
80	5236-5284	2580-2500	2.24	0	56		
81	5236-5284	2572-2492	2.24	0	56		
						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 -		Daily Totals	
Recording: 9.5		Human Error:		Toolbox/Safety Meeting: 0.3		Working Time: 12.0	
Requested Experimental:		Troubleshooting: 0.3		Induction:		Standby Time: 0.3	
Recorder Moveup: 0.4		Recorder: 0.1		Weather:		Down Time: 0.5	
Waiting on Spread:		Vibes: 0.1		Other:		Non-Charge Time: 0.3	
Vibe Detour: 0.4		WOS:				Total Day Hrs: 13.1	
Terrain Detour:		Tests / Other:		Other -		Cumulative Totals	
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: 0.3		Spread Layout/Pickup:		Down Time(Job): 48.4	
Other:				Crew Demobe/Remobe:		Non-Charge Time(Job): 42.0	
						Total Hrs (Job): 1037.8	

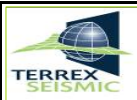
COMMENTS: * Total of 600 vps taken(152 vps overlap, 448 vps recorded) *Vibe DT from Radio Probs, tracking down some GM328's to swap out * Supply Driver returned from Noccundra with another spare vibe tyre	Spread Movement							
	Client: GAOG Spirel 3D				Date: Tuesday, 13 February 2007			
	Layout				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								

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	
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	
							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 _____
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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..... 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.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 -
Recording: 8.3
Requested Experimental:
Recorder Moveup:
Waiting on Spread: 0.1
Vibe Detour: 0.2
Terrain Detour:
Traverse Move: 2.1
Panel Move:
Swath Move: 0.2
Other:

Down Time -
Human Error:
Troubleshooting: 0.2
Recorder: 0.2
Vibes: 0.2
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: 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 Spinel 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	

Total Crew #'s: 46

Line crew #'s: 26

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
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

Personal
Driller
Driller
Offsider
Offsider
Offsider

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

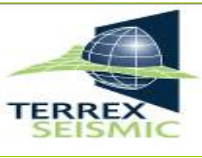
Consum Holecaps 0
Charge 0.00
Cum.Charge.Hrs (Job) 0.00
Cum.Stby.Hrs (Job) 0.00
Cum.Trav.Klm (Job) 0.00
Cum.Trav.Hrs (Job) 0.00

Personal
Logger

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic

Daily Report

Client.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

CREW 402

Party Manager.. Jon Turner

Client Rep..... Bruce Beer

Weather..... Fine / Warm

DATE..... Saturday, 17 February 2007

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's	
92	5236-5364	2476-2404	5.44	0	136	
93	5364-5236	2468-2396	5.44	0	136	
94	5236-5364	2460-2388	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.Klm: 495.900

Lin.Kms.Remaining: 0.000

Sq.Kms.Remaining: 0.000

% Completed: 100.00%

Average Daily Production Sq. Kms: 27.550

HOOURS

Working Time -	Down Time -	Standby Time -		Daily Totals
Recording: 5.8	Human Error:	Toolbox/Safety Meeting: 0.3		Working Time: 9.6
Requested Experimental:	Troubleshooting:	Induction:		Standby Time: 0.3
Recorder Moveup:	Recorder:	Weather:		Down Time: 1.9
Waiting on Spread:	Vibes: 0.4	Other:		Non-Charge Time: 0.2
Vibe Detour: 0.6	WOS: 1.5			Total Day Hrs: 12.0
Terrain Detour:	Tests / Other:	Other -		Cumulative Totals
Traverse Move: 3.1		Mobilisation:		Working Time(Job): 820.0
Panel Move:	Non-Charge Time -	Intraprospect Move:		Standby Time(Job): 78.7
Swath Move: 0.1	Travel Time: 0.2	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 506vps taken(408 vps recorded, 98 vps overlap)

*Vibe down time today was due to positioning errors and a problem late in the day.

* WOS spread time again not chargeable today due to lack of line crew numbers and four personnel complete 4WD course

*No instrument problems today, observers wetting ground spike appears to be helping.

Spread Movement

Client: GAOG Spirel 3D				Date: Friday, 16 February 2007			
Layout				Pickup			
Line	Station #	Tot		Line	Station #	Tot	
2396	5329	5181	149	2484	5319	5181	139
2388	5372	5181	192	2476	5181	5372	192
2380	5372	5181	192	2468	5372	5181	192
2372	5372	5300	73	2460	5372	5300	73
Total Stations :		606		Total Stations:		596	
Equipment Report		Bad Phones: 10		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	
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
Offsider								5 x 1/8	0
Offsider								Tri Cone 4 3/4	0
Offsider								Aqua gel	0
								Mtr	0
								Cum.Mtrs. (Job)	0

COMMENTS:

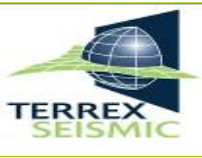
EXPERTEST - LOGGING PRODUCTION

	Hrs	Work	0.00
		Standby	0.00
		Downtime	0.00
		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.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

Party Manager..

Client Rep.....

Weather.....

DATE.....

CREW 402

Jon Turner

Bruce Beer

Fine / Warm

Sunday, 18 February 2007

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's	
95	5364-5236	2452-2380	5.44	0	136	
96	5236-5364	2444-2372	5.44	0	136	
97	5364-5236	2436-2364	5.44	0	136	
98	5292-5300	2428-2356	0.64	0	16	

Daily Totals

VP's: 424

Skips: 0

Lin.Kms: 16.9600

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

HOOURS

Working Time -	Down Time -	Standby Time -		Daily Totals
Recording: 6.7	Human Error:	Toolbox/Safety Meeting: 0.3		Working Time: 11.0
Requested Experimental:	Troubleshooting: 0.5	Induction:		Standby Time: 0.3
Recorder Moveup:	Recorder: 0.1	Weather:		Down Time: 0.8
Waiting on Spread:	Vibes: 0.2	Other:		Non-Charge Time: 0.2
Vibe Detour: 1.4	WOS:			Total Day Hrs: 12.3
Terrain Detour:	Tests / Other:	Other -		Cumulative Totals
Traverse Move: 2.8		Mobilisation:		Working Time(Job): 820.0
Panel Move:	Non-Charge Time -	Intraprospect Move:		Standby Time(Job): 78.7
Swath Move: 0.1	Travel Time: 0.2	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 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: 10			
				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	
Total Holes							0	Charge	0.00
Cum.Holes Drilled							0	Cum.Charge.Hrs (Job)	0.00
								Cum.Stby.Hrs (Job)	0.00
Holes Today							0	Cum.Trav.Hrs (Job)	0.00
Holes Remaining							0		
Personal							Consum	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:

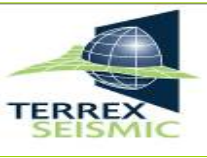
EXPERTEST - LOGGING PRODUCTION

	Hrs	Work	0.00
		Standby	0.00
		Downtime	0.00
		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				CREW 402	
	Client.....	GAOG	Party Manager..	Jon Turner		
	Survey Name.	Spinel 3D	Client Rep.....	Bruce Beer		
	Area.....	PEL's 91 - 106	Weather.....	Fine / Warm		
State.....	SA	DATE.....	Monday, 19 February 2007			

PRODUCTION							Daily Totals	
Swath	Source	Receiver	Kms.	Skips	Vp's		VP's:	440
98	5236-5364	2428-2356	4.8	0	120		Skips:	0
99	5236-5364	2420-2348	5.44	0	136		Lin.Kms:	17.6000
100	5364-5236	2412-2340	5.44	0	136		Day.Sq.Klms:	5.5982
101	5236-5276	2404-2332	1.92	0	48			
							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							Daily Totals	
Working Time -		Down Time -		Standby Time -				
Recording:	8.6	Human Error:		Toolbox/Safety Meeting:	0.3	Working Time:	11.5	
Requested Experimental:		Troubleshooting:	0.3	Induction:		Standby Time:	0.3	
Recorder Moveup:		Recorder:	0.3	Weather:		Down Time:	0.6	
Waiting on Spread:		Vibes:		Other:		Non-Charge Time:	0.4	
Vibe Detour:	1.2	WOS:				Total Day Hrs:	12.8	
Terrain Detour:		Tests / Other:		Other -		Cumulative Totals		
Traverse Move:	1.5			Mobilisation:		Working Time(Job):	820.0	
Panel Move:		Non-Charge Time -		Intraprospect Move:		Standby Time(Job):	78.7	
Swath Move:	0.2	Travel Time:	0.4	Spread Layout/Pickup:		Down Time(Job):	48.4	
Other:				Crew Demobe/Remobe:		Non-Charge Time(Job):	42.0	
						Total Hrs (Job):	1037.8	

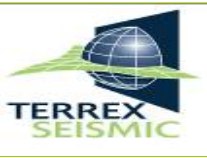
COMMENTS: *Total of 567 vps taken(440 vps recorded, 127 vps overlap) *Steve Tobin, Doug Roberts, Ray Shaw and Chris Carty arrived on crew today. *Driver training completed today, instructor departed for Brisbane mid afternoon. *A good days production today, line crew working well. *1 extra line crew 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: 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	
Total Holes							Charge	0.00	
Cum.Holes Drilled							Cum.Charge.Hrs (Job)	0.00	
							Cum.Stby.Hrs (Job)	0.00	
							Cum.Trav.Hrs (Job)	0.00	
Holes Today									
Holes Remaining									
Personal							Consum		
Driller							Blovis	0	
Offsider							4 x 3/4	0	
Offsider							5 x 1/8	0	
Offsider							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	
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 _____
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Terrex Seismic
Daily Report

Client.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

Party Manager..

Client Rep.....

Weather.....

DATE.....

CREW 402

Jon Turner

Bruce Beer

Fine / Warm

Tuesday, 20 February 2007

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's	
101	5236-5276	2404-2332	3.52	0	88	
102	5236-5364	2396-2324	5.44	0	136	
103	5364-5236	2388-2316	5.44	0	136	
104	5236-5276	2380-2308	0.32	0	8	

Daily Totals

VP's: 368

Skips: 0

Lin.Kms: 14.7200

Day.Sq.Klms: 4.6821

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: 23.614

HOOURS

Working Time -	Down Time -	Standby Time -		Daily Totals
Recording: 7.5	Human Error:	Toolbox/Safety Meeting: 0.3		Working Time: 11.6
Requested Experimental:	Troubleshooting: 0.4	Induction:		Standby Time: 0.3
Recorder Moveup: 0.5	Recorder:	Weather:		Down Time: 0.6
Waiting on Spread:	Vibes: 0.2	Other:		Non-Charge Time: 0.4
Vibe Detour: 1.4	WOS:			Total Day Hrs: 12.9
Terrain Detour:	Tests / Other:	Other -		Cumulative Totals
Traverse Move: 2.2		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:

*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:		9	Bad Cable: 2

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.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

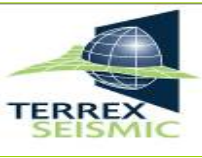
	Hrs	Work	0.00
		Standby	0.00
		Downtime	0.00
		Klm Trav	0.00
		Trav Hrs	0.00
		Consum	0
		Holecaps	0
		Charge	0.00
		Cum.Charge.Hrs (Job)	0.00
		Cum.Stby.Hrs (Job)	0.00
		Cum.Trav.Klm (Job)	0.00
		Cum.Trav.Hrs (Job)	0.00

COMMENTS:

Crew Manager

Client Rep _____

Page 48 of 105



Terrex Seismic

Daily Report

Client.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

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

HOOURS

Working Time -	Down Time -	Standby Time -		Daily Totals
Recording: 7.2	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: 0.5
Vibe Detour: 1.0	WOS:			Total Day Hrs: 11.8
Terrain Detour:	Tests / Other:	Other -		Cumulative Totals
Traverse Move: 2.4		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:

*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
Equipment Report				Bad Phones:		4	Bad Cable: 1

Total Crew #'s: 46

Line crew #'s: 23

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
								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:

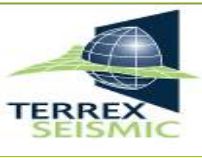
EXPERTEST - LOGGING PRODUCTION

	Hrs	Work	0.00
		Standby	0.00
		Downtime	0.00
		Klm Trav	0.00
		Trav Hrs	0.00
		Consum	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.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

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.Klm: 495.900

Lin.Kms.Remaining: 0.000

Sq.Kms.Remaining: 0.000

% Completed: 100.00%

Average Daily Production Sq. Kms: 21.561

HOOURS

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:	Induction:		Standby Time: 0.3
Recorder Moveup:	Recorder: 0.1	Weather:		Down Time: 0.7
Waiting on Spread:	Vibes: 0.6	Other:		Non-Charge Time: 0.5
Vibe Detour: 1.3	WOS:			Total Day Hrs: 12.9
Terrain Detour:	Tests / Other:	Other -		Cumulative Totals
Traverse Move: 2.3		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:

*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: 8			
				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	
Total Holes							0	Charge	0.00
Cum.Holes Drilled							0	Cum.Charge.Hrs (Job)	0.00
								Cum.Stby.Hrs (Job)	0.00
Holes Today							0	Cum.Trav.Hrs (Job)	0.00
Holes Remaining							0		
Personal							Consum	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:

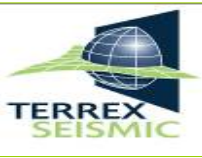
EXPERTEST - LOGGING PRODUCTION

	Hrs	Work	0.00
		Standby	0.00
		Downtime	0.00
		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.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

Party Manager..

Client Rep.....

Weather.....

DATE.....

CREW 402

Jon Turner

Terry Grocke

Fine / Warm

Friday, 23 February 2007

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's	
110	5364-5236	2332-2260	5.44	0	136	
111	5364-5236	2324-2252	5.44	0	136	
112	5236-5332	2316-2244	4.16	0	104	
113	5236-5332	2308-2236	4.16	0	104	

Daily Totals

VP's: 480

Skips: 0

Lin.Kms: 19.2000

Day.Sq.Klms: 6.1071

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: 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 vibe 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			

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:

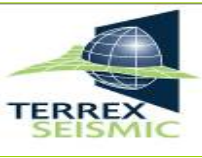
EXPERTEST - LOGGING PRODUCTION

	Hrs	Work	0.00
		Standby	0.00
		Downtime	0.00
		Klm 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.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

Party Manager..

Client Rep.....

Weather.....

DATE.....

CREW 402

Jon Turner

Terry Grocke

Fine / Warm

Saturday, 24 February 2007

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's	
112	5340-5364	2316-2244	1.28	0	32	
113	5340-5364	2308-2236	1.28	0	32	
114	5364-5236	2300-2228	5.44	0	136	
115	5364-5236	2292-2220	5.44	0	136	
116	5326-5252	2284-2212	0.96	0	24	
117	5326-5252	2276-2204	0.96	0	24	

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.Klm: 495.900

Lin.Kms.Remaining: 0.000

Sq.Kms.Remaining: 0.000

% Completed: 100.00%

Average Daily Production Sq. Kms: 19.836

HOOURS

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:			Total Day Hrs: 12.6
Terrain Detour:	Tests / Other:	Other -		Cumulative Totals
Traverse Move: 1.9		Mobilisation:		Working Time(Job): 820.0
Panel Move:	Non-Charge Time -	Intraprospect Move:		Standby Time(Job): 78.7
Swath Move: 0.1	Travel Time: 0.6	Spread Layout/Pickup:		Down Time(Job): 48.4
Other:		Crew Demobe/Remobe:		Non-Charge Time(Job): 42.0
				Total Hrs (Job): 1037.8

COMMENTS:

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: 6		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
								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:

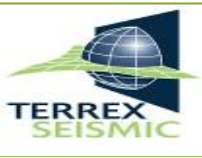
EXPERTEST - LOGGING PRODUCTION

	Hrs	Work	0.00
		Standby	0.00
		Downtime	0.00
		Klm 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 _____



Client.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

Terrex Seismic

Daily Report

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

HOOURS

Working Time -	Down Time -	Standby Time -		Daily Totals
Recording: 8.0	Human Error:	Toolbox/Safety Meeting: 0.3		Working Time: 10.1
Requested Experimental:	Troubleshooting: 0.6	Induction:		Standby Time: 0.4
Recorder Moveup:	Recorder: 0.1	Weather: 0.1		Down Time: 0.8
Waiting on Spread:	Vibes: 0.1	Other:		Non-Charge Time: 0.7
Vibe Detour: 0.2	WOS:			Total Day Hrs: 12.0
Terrain Detour:	Tests / Other:	Other -		Cumulative Totals
Traverse Move: 1.5		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:

*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.

*Ammendment 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: 6			
				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
								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

Personal

Driller

Driller

Offsider

Offsider

Offsider

COMMENTS:

EXPERTEST - LOGGING PRODUCTION

	Hrs	Work	0.00
		Standby	0.00
		Downtime	0.00
		Klm 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

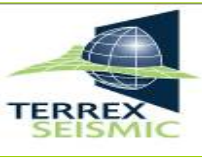
Personal

Logger

COMMENTS:

Crew Manager

Client Rep _____



Client.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

Terrex Seismic

Daily Report

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

HOOURS

Working Time -	Down Time -	Standby Time -		Daily Totals
Recording: 7.7	Human Error:	Toolbox/Safety Meeting: 0.3		Working Time: 10.6
Requested Experimental:	Troubleshooting: 0.1	Induction:		Standby Time: 0.3
Recorder Moveup:	Recorder: 0.6	Weather:		Down Time: 0.8
Waiting on Spread:	Vibes: 0.1	Other:		Non-Charge Time: 0.7
Vibe Detour: 0.7	WOS:			Total Day Hrs: 12.4
Terrain Detour:	Tests / Other:	Other -		Cumulative Totals
Traverse Move: 1.9		Mobilisation:		Working Time(Job): 820.0
Panel Move:	Non-Charge Time -	Intraprospect Move:		Standby Time(Job): 78.7
Swath Move: 0.3	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:

*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
Equipment Report				Bad Phones: 8			
				Bad Cable: 0			

Total Crew #'s: 47

Line crew #'s: 24

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
								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:

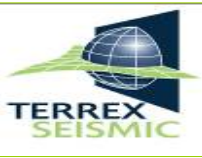
EXPERTEST - LOGGING PRODUCTION

	Hrs	Work	0.00
		Standby	0.00
		Downtime	0.00
		Klm Trav	0.00
		Trav Hrs	0.00
		Consum	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 _____



Client.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

Terrex Seismic

Daily Report

CREW 402

Party Manager.. Jon Turner

Client Rep..... Terry Grocke

Weather..... Fine / Warm

DATE..... Tuesday, 27 February 2007

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's	
124	5236-5372	2220-2148	5.48	0	137	
125	5372-5236	2212-2140	5.76	0	144	
126	5372-5236	2204-2132	5.76	0	144	
127	5236-5372	2196-2124	5.76	0	144	
128	5372-5340	2188-2116	1.6	0	40	

Daily Totals

VP's: 609

Skips: 0

Lin.Kms: 24.3600

Day.Sq.Klms: 7.7484

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: 17.711

HOOURS

Working Time -	Down Time -	Standby Time -		Daily Totals
Recording: 7.8	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: 0.4
Waiting on Spread:	Vibes: 0.1	Other:		Non-Charge Time: 0.7
Vibe Detour: 0.5	WOS:			Total Day Hrs: 12.5
Terrain Detour:	Tests / Other:	Other -		Cumulative Totals
Traverse Move: 2.7		Mobilisation:		Working Time(Job): 820.0
Panel Move:	Non-Charge Time -	Intraprospect Move:		Standby Time(Job): 78.7
Swath Move: 0.1	Travel Time: 0.7	Spread Layout/Pickup:		Down Time(Job): 48.4
Other:		Crew Demobe/Remobe:		Non-Charge Time(Job): 42.0
				Total Hrs (Job): 1037.8

COMMENTS:

*Total of 609 vps taken, all production.

*Recorder downtime today was due to 1 system lockup.

*Preparations made for camp move tomorrow, three vans and two trailers moved to new camp site.

*Line crew working well, a good days production.

Spread Movement

Client: GAOG Spinel 3D							
Layout				Pickup			
Line	Station #	Tot		Line	Station #	Tot	
2140	5329	5181	149	2236	5299	5181	119
2132	5329	5181	149	2228	5299	5181	119
2124	5372	5181	192	2220	5181	5372	192
2116	5372	5181	192	2212	5181	5372	192
2108	5181	5220	40	2204	5372	5181	192
				2196	5181	5320	140
Total Stations :		722		Total Stations:		954	
Equipment Report		Bad Phones: 10		Bad Cable:		0	

Total Crew #'s: 47

Line crew #'s: 24

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
								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:

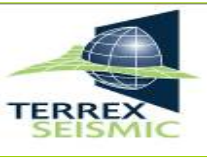
EXPERTEST - LOGGING PRODUCTION

	Hrs	Work	0.00
		Standby	0.00
		Downtime	0.00
		Klm Trav	0.00
		Trav Hrs	0.00
		Consum	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.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

Party Manager..

Client Rep.....

Weather.....

DATE.....

CREW 402

Jon Turner

Terry Grocke

Fine / Warm

Wednesday, 28 February 2007

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's	
128	5372-5340	2188-2116	4.16	0	104	
129	5372-5236	2180-2108	5.76	0	144	
130	5372-5236	2172-2100	5.76	0	144	
131	5236-5372	2164-2092	3.84	0	96	

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.Klm: 495.900

Lin.Kms.Remaining: 0.000

Sq.Kms.Remaining: 0.000

% Completed: 100.00%

Average Daily Production Sq. Kms: 17.100

HOOURS

Working Time -	Down Time -	Standby Time -		Daily Totals
Recording: 5.6	Human Error:	Toolbox/Safety Meeting: 0.3		Working Time: 10.8
Requested Experimental:	Troubleshooting: 0.5	Induction:		Standby Time: 0.3
Recorder Moveup: 0.6	Recorder: 0.2	Weather:		Down Time: 0.8
Waiting on Spread:	Vibes: 0.1	Other:		Non-Charge Time: 0.7
Vibe Detour: 1.5	WOS:			Total Day Hrs: 12.6
Terrain Detour:	Tests / Other:	Other -		Cumulative Totals
Traverse Move: 2.9		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:

*Total of 488 vps taken, all production.

*Intraprospect camp move today, line crew moved all accommodation vans to new site and were back in the field by 9:30am. Camp staff moved all other equipment and had camp setup by 5:00pm.

*Less production today due to camp move and detour time, dunes getting bigger in the south of the panel.

*Crew change tomorrow, line crew numbers to be increased.

Spread Movement

Client: GAOG Spinel 3D

Layout				Pickup			
Line	Station #	Tot		Line	Station #	Tot	
2108	5221	5372	152	2196	5321	5372	52
2100	5372	5181	192	2188	5372	5181	192
2092	5372	5181	192	2180	5181	5372	192
2084	5372	5181	192	2172	5181	5372	192
2076	5181	5237	57				
Total Stations :		785		Total Stations:		628	

Total Crew #'s: 47

Line crew #'s: 24

Light Vehicle #'s: 22

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.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:

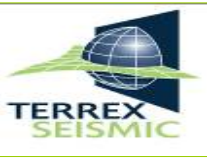
EXPERTEST - LOGGING PRODUCTION

	Hrs	Work	0.00
		Standby	0.00
		Downtime	0.00
		Klm 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.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

Party Manager..

Client Rep.....

Weather.....

DATE.....

CREW 402

Jon Turner

Terry Grocke

Fine / Warm

Thursday, 1 March 2007

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's	
131	5236-5372	2164-2092	1.92	0	48	
132	5372-5236	2156-2084	5.76	0	144	
133	5372-5236	2148-2076	5.76	0	144	
134	5236-5372	2140-2068	5.76	0	144	
135	5236-5292	2132-2060	2.56	0	64	

Daily Totals

VP's: 544

Skips: 0

Lin.Kms: 21.7600

Day.Sq.Klms: 6.9214

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: 16.530

HOOURS

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:

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	
Equipment Report		Bad Phones: 12		Bad Cable:		0	

Total Crew #'s: 45

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	
Total Holes							0	Charge	0.00
Cum.Holes Drilled							0	Cum.Charge.Hrs (Job)	0.00
								Cum.Stby.Hrs (Job)	0.00
Holes Today							0	Cum.Trav.Hrs (Job)	0.00
Holes Remaining							0		
Personal							Consum	Blovis	0
Driller								4 x 3/4	0
Offsider								5 x 1/8	0
Offsider								Tri Cone 4 3/4	0
								Aqua gel	0
								Mtr	0
								Cum.Mtrs. (Job)	0

COMMENTS:

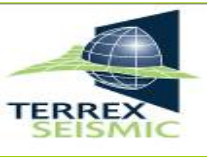
EXPERTEST - LOGGING PRODUCTION

	Hrs	Work	0.00
		Standby	0.00
		Downtime	0.00
		Klm Trav	0.00
		Trav Hrs	0.00
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.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

Party Manager..

Client Rep.....

Weather.....

DATE.....

CREW 402

Jon Turner

Terry Grocke

Fine / Warm

Friday, 2 March 2007

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's	
135	5300-5372	2132-2060	3.2	0	80	
136	5372-5236	2124-2052	5.76	0	144	
137	5236-5372	2116-2044	5.76	0	144	
138	5372-5236	2108-2036	4.16	0	104	
139	5372-5236	2100-2028	4.16	0	104	

Daily Totals

VP's: 576

Skips: 0

Lin.Kms: 23.0400

Day.Sq.Klms: 7.3286

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: 15.997

HOOURS

Working Time -	Down Time -	Standby Time -		Daily Totals
Recording: 6.3	Human Error:	Toolbox/Safety Meeting: 0.3		Working Time: 10.7
Requested Experimental:	Troubleshooting: 0.1	Induction:		Standby Time: 0.3
Recorder Moveup:	Recorder:	Weather:		Down Time: 0.1
Waiting on Spread:	Vibes:	Other:		Non-Charge Time: 0.8
Vibe Detour: 1.5	WOS:			Total Day Hrs: 11.9
Terrain Detour:	Tests / Other:	Other -		Cumulative Totals
Traverse Move: 2.6		Mobilisation:		Working Time(Job): 820.0
Panel Move:	Non-Charge Time -	Intraprospect Move:		Standby Time(Job): 78.7
Swath Move: 0.3	Travel Time: 0.8	Spread Layout/Pickup:		Down Time(Job): 48.4
Other:		Crew Demobe/Remobe:		Non-Charge Time(Job): 42.0
				Total Hrs (Job): 1037.8

COMMENTS:

*Total of 576 vps taken, all production.

*A good days production today with no downtime following the commencement of production.

*3 more line crew into camp today, 1 vibe scout out, total line crew #'s now at 28 including scout and depegg

Spread Movement

Client: GAOG Spinel 3D

Layout				Pickup			
Line	Station #	Tot		Line	Station #	Tot	
2052	5290	5181	110	2140	5284	5181	104
2044	5372	5181	192	2132	5372	5181	192
2036	5372	5181	192	2124	5181	5372	192
2028	5372	5181	192	2116	5372	5181	192
2020	5181	5300	120	2108	5372	5345	28
				2100	5372	5345	28
Total Stations :		806		Total Stations:		736	
Equipment Report		Bad Phones: 8		Bad Cable:		1	

Total Crew #'s: 48

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
								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:

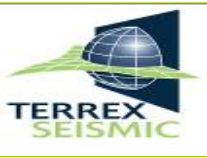
EXPERTEST - LOGGING PRODUCTION

	Hrs	Work	0.00
		Standby	0.00
		Downtime	0.00
		Klm 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.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

Party Manager.....

Client Rep.....

Weather.....

DATE.....

CREW 402

Jon Turner

Terry Grocke

Fine / Hot

Saturday, 3 March 2007

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's	
138	5268-5236	2108-2036	1.6	0	40	
139	5268-5236	2100-2028	1.6	0	40	
140	5236-5372	2092-2020	5.76	0	144	
141	5372-5236	2084-2012	5.76	0	144	
142	5372-5236	2076-2004	5.76	0	144	
143	5236	2068-1996	0.32	0	8	
144	5236	2060-1988	0.32	0	8	

Daily Totals

VP's: 528

Skips: 0

Lin.Kms: 21.1200

Day.Sq.Klms: 6.7179

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: 15.497

HOOURS

Working Time -	Down Time -	Standby Time -		Daily Totals
Recording: 6.0	Human Error:	Toolbox/Safety Meeting: 0.3		Working Time: 9.7
Requested Experimental:	Troubleshooting: 0.3	Induction:		Standby Time: 0.3
Recorder Moveup: 0.6	Recorder: 0.4	Weather:		Down Time: 0.7
Waiting on Spread:	Vibes:	Other:		Non-Charge Time: 0.7
Vibe Detour: 0.7	WOS:			Total Day Hrs: 11.4
Terrain Detour:	Tests / Other:	Other -		Cumulative Totals
Traverse Move: 2.0		Mobilisation:		Working Time(Job): 820.0
Panel Move:	Non-Charge Time -	Intraprospect Move:		Standby Time(Job): 78.7
Swath Move: 0.4	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:

*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	

Total Crew #'s: 49

Line crew #'s: 29

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
								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

Personal

Driller

Driller

Offsider

Offsider

Offsider

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

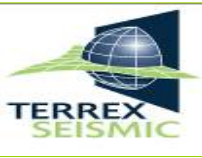
Personal

Logger

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic

Daily Report

Client.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

Party Manager..

Client Rep.....

Weather.....

DATE.....

CREW 402

Jon Turner

Terry Grocke

Fine / Windy

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: 22.4000

Day.Sq.Klms: 7.1250

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: 15.027

HOURLS

Working Time -	Down Time -	Standby Time -		Daily Totals
Recording: 6.9	Human Error:	Toolbox/Safety Meeting: 0.3		Working Time: 9.5
Requested Experimental:	Troubleshooting: 1.0	Induction:		Standby Time: 0.3
Recorder Moveup:	Recorder: 0.2	Weather:		Down Time: 2.2
Waiting on Spread:	Vibes: 0.2	Other:		Non-Charge Time: 0.8
Vibe Detour: 0.7	WOS:			Total Day Hrs: 12.8
Terrain Detour:	Tests / Other: 0.8	Other -		Cumulative Totals
Traverse Move: 1.9		Mobilisation:		Working Time(Job): 820.0
Panel Move:	Non-Charge Time -	Intraprospect Move:		Standby Time(Job): 78.7
Swath Move:	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:

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	
Total Holes							0	Charge	0.00
Cum.Holes Drilled							0	Cum.Charge.Hrs (Job)	0.00
								Cum.Stby.Hrs (Job)	0.00
Holes Today							0	Cum.Trav.Hrs (Job)	0.00
Holes Remaining							0		
Personal							Consum	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:

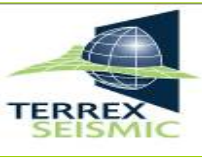
EXPERTEST - LOGGING PRODUCTION

	Hrs	Work	0.00
		Standby	0.00
		Downtime	0.00
		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.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

CREW 402

Party Manager.. Jon Turner

Client Rep..... Terry Grocke

Weather..... Fine / Windy

DATE..... Monday, 5 March 2007

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's	
147	5236-5372	2036-1964	5.76	0	144	
148	5236-5364	2028-1956	5.44	0	136	
149	5356-5236	2020-1948	5.12	0	128	
150	5348-5236	2012-1940	4.8	0	120	
151	5236-5268	2004-1932	1.6	0	40	
152	5236-5268	1996-1924	1.6	0	40	

Daily Totals

VP's: 608

Skips: 0

Lin.Kms: 24.3200

Day.Sq.Klms: 7.7357

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: 14.585

HOOURS

Working Time -	Down Time -	Standby Time -		Daily Totals
Recording: 7.4	Human Error:	Toolbox/Safety Meeting: 0.3		Working Time: 9.6
Requested Experimental:	Troubleshooting: 0.1	Induction:		Standby Time: 2.1
Recorder Moveup:	Recorder:	Weather: 1.8		Down Time: 0.1
Waiting on Spread:	Vibes:	Other:		Non-Charge Time: 0.8
Vibe Detour: 0.2	WOS:			Total Day Hrs: 12.6
Terrain Detour:	Tests / Other:	Other -		Cumulative Totals
Traverse Move: 1.8		Mobilisation:		Working Time(Job): 820.0
Panel Move:	Non-Charge Time -	Intraprospect Move:		Standby Time(Job): 78.7
Swath Move: 0.2	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:

*Total of 608 vps taken, all production.

*Strong winds today caused a 1.8 hour delay to production due to noise on the spread.

*Line crew completed laying panel 3 and layed 200 channels of spread on panel 1.

*Should complete acquisition on panel 3 tomorrow and move the vibes to the start of panel 1, there will be n waiting on spread to commence panel 1 production.

*Line crew working well, long move to shift spread from panel 3 to panel 1.

Spread Movement

Client: GAOG Spinel 3D

Layout				Pickup			
Line	Station #	Tot		Line	Station #	Tot	
1948	5268	5181	88	2052	5299	5181	119
1940	5268	5181	88	2044	5299	5181	119
1932	5181	5240	60	2036	5181	5372	192
1924	5232	5181	52	2028	5181	5372	192
1916	5181	5223	43	2020	5372	5255	118
1908	5215	5181	35	2012	5372	5255	118
1900	5181	5206	26				
1892	5198	5181	18				
1884	5181	5189	9				
2172	5092	4989	104				
2164	4989	5092	104				
Total Stations: 627				Total Stations: 858			

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
								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:

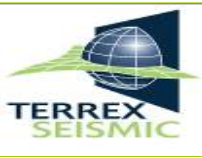
EXPERTEST - LOGGING PRODUCTION

	Hrs	Work	0.00
		Standby	0.00
		Downtime	0.00
		Klm Trav	0.00
		Trav Hrs	0.00
		Consum	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.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

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

HOURLS

Working Time -	Down Time -	Standby Time -		Daily Totals
Recording: 6.0	Human Error:	Toolbox/Safety Meeting: 0.3		Working Time: 11.9
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: 0.5	WOS:			Total Day Hrs: 12.7
Terrain Detour:	Tests / Other:	Other -		Cumulative Totals
Traverse Move: 1.2		Mobilisation:		Working Time(Job): 820.0
Panel Move: 4.0	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:

*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	

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
								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	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 _____



Client.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

Terrex Seismic

Daily Report

CREW 402

Party Manager.. Jon Turner

Client Rep..... Terry Grocke

Weather..... Fine / Hot

DATE..... Wednesday, 7 March 2007

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's	
Commence Panel 1						
162	5276-5332	1996-1924	3.84	0	96	
163	5324-5236	1988-1916	3.84	0	96	
164	5308-5236	1980-1908	3.52	0	88	
165	5236-5244	1972-1900	3.52	0	88	

Daily Totals

VP's: 368

Skips: 0

Lin.Kms: 14.7200

Day.Sq.Klms: 4.6821

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: 13.775

HOOURS

Working Time -		Down Time -		Standby Time -		Daily Totals	
Recording:	9.1	Human Error:		Toolbox/Safety Meeting:	0.3	Working Time:	10.5
Requested Experimental:		Troubleshooting:	1.0	Induction:		Standby Time:	0.3
Recorder Moveup:		Recorder:	0.2	Weather:		Down Time:	1.4
Waiting on Spread:		Vibes:	0.2	Other:		Non-Charge Time:	0.3
Vibe Detour:	0.3	WOS:				Total Day Hrs:	12.5
Terrain Detour:		Tests / Other:		Other -		Cumulative Totals	
Traverse Move:	1.0			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:

*Total of 712 vps taken, (368 recorded, 344 overlap).

*Excessive troubleshooting time today due to an intermittent problem in the transverse line.

*Another good days production today, line crew working well, completed spread layout on panel and commenced layout on panel 2.

*There was an emergency medevac late today with the head mechanic being bitten by a snake at approximately 10:30pm in the evening. See HSE report for further details.

Spread Movement

Client: GAOG Spinel 3D

Layout				Pickup			
Line	Station #	Tot		Line	Station #	Tot	
2084	5092	4989	104	1972	5261	5348	88
2076	4989	5092	104	1964	5236	5340	105
2068	5092	4989	104	1956	5181	5332	152
2060	4989	5092	104	1948	5181	5324	144
2052	5092	4989	104	1940	5308	5181	128
2044	4989	5092	104	1932	5240	5181	60
2036	5092	4989	104	1924	5181	5232	52
2028	4989	5092	104	1916	5181	5223	43
2020	5084	4989	96	1908	5181	5215	35
				1900	5181	5206	26
				1892	5181	5198	18
				1884	5181	5189	9
Total Stations :			928	Total Stations:			833

Equipment Report

Bad Phones: 28

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	
								Bloivs	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:

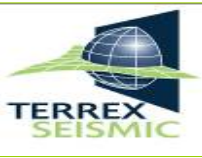
EXPERTEST - LOGGING PRODUCTION

	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 _____



Client.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

Terrex Seismic

Daily Report

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	
Commence Panel 1						
162	4988	2172-2132	0.32	0	8	
163	4988	2172-2124	0.32	0	8	
164	4988-4996	2172-2116	0.64	0	16	
165	4988-4996	2172-2108	0.64	0	16	
166	4988-5084	2172-2100	4.16	0	104	
167	4988-5084	2164-2092	4.16	0	104	
168	5084-5012	2156-2084	3.2	0	80	
169	5084-5012	2148-2076	3.2	0	80	
170	5084-5012	2140-2068	3.2	0	80	

Daily Totals

VP's: 496

Skips: 0

Lin.Kms: 19.8400

Day.Sq.Klms: 6.3107

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: 13.403

HOOURS

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:			Total Day Hrs: 12.3
Terrain Detour:	Tests / Other:	Other -		Cumulative Totals
Traverse Move: 1.8		Mobilisation:		Working Time(Job): 820.0
Panel Move:	Non-Charge Time -	Intraprospect Move:		Standby Time(Job): 78.7
Swath Move: 0.3	Travel Time: 0.2	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 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	

Total Crew #'s: 47

Line crew #'s: 28

Light Vehicle #'s: 22

Equipment Report

Bad Phones: 7

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		
							Bloivs	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	

Personal

Driller

Driller

Offsider

Offsider

Offsider

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	

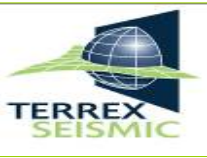
Personal

Logger

COMMENTS:

Crew Manager

Client Rep _____



Terrex Seismic

Daily Report

Client.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

Party Manager..

Client Rep.....

Weather.....

DATE.....

CREW 402

Mark Kneipp

Bruce Beer

Fine / Warm

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

HOOURS

Working Time -	Down Time -	Standby Time -	
Recording: 9.1	Human Error: 0.3	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:	Other -	
Traverse Move: 1.4		Mobilisation:	
Panel Move:	Non-Charge Time -	Intraprospect Move:	
Swath Move: 0.3	Travel Time: 0.3	Spread Layout/Pickup:	
Other:		Crew Demobe/Remobe:	

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

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:

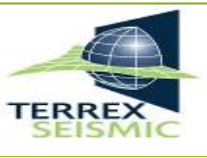
EXPERTEST - LOGGING PRODUCTION

	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.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

CREW 402

Party Manager..

Client Rep.....

Weather.....

DATE.....

Mark Kneipp

Bruce Beer

Fine / Warm

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.Klm: 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 -	Down Time -	Standby Time -	
Recording: 8.9	Human Error:	Toolbox/Safety Meeting: 0.3	
Requested Experimental:	Troubleshooting: 0.1	Induction:	
Recorder Moveup:	Recorder:	Weather:	
Waiting on Spread:	Vibes:	Other:	
Vibe Detour:	WOS:		
Terrain Detour: 1.1	Tests / Other:	Other -	
Traverse Move: 1.2		Mobilisation:	
Panel Move:	Non-Charge Time -	Intraprospect Move:	
Swath Move:	Travel Time: 0.3	Spread Layout/Pickup:	
Other:		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

DSS & TERREX CONTRACTING - LINE PREPARATION

COMMENTS:

Continue Production

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

10/03/2007

BEACH PETROLEUM - Spinel 3D

Uphole #	Line	Station	Interse	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
	Standby			Standby	
	Down			Down	
	Hole caps	10		Biovis	3
				Aus Gel	
				Blades	4 3/4
				Other	Aus Det

Nathan Jones

(Driller) Brett Andrew

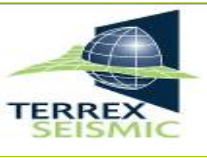
(Offsider) James McClure

(Offsider) Ken Clark

(Offsider) Troy Jones

Crew Manager

Client Rep



Client.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

Terrex Seismic

Daily Report

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.Klm: 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 -	Down Time -	Standby Time -		Daily Totals
Recording: 7.5	Human Error:	Toolbox/Safety Meeting: 0.3		Working Time: 11.3
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: 0.7
Vibe Detour:	WOS:			Total Day Hrs: 12.6
Terrain Detour: 0.5	Tests / Other:	Other -		Cumulative Totals
Traverse Move: 0.4		Mobilisation:		Working Time(Job): 820.0
Panel Move: 2.8	Non-Charge Time -	Intraprospect Move:		Standby Time(Job): 78.7
Swath Move: 0.1	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:

*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	

Equipment Report

Bad Phones: 3

Bad Cable: 2

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

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
Continue Panel 2					
186	5132-5084	1804-1844	2.24	0	56
187	5132-5084	1804-1852	2.24	0	56
188	5132-5084	1804-1860	2.24	0	56
189	5084-5172	1804-1868	3.84	1	95
190	5084-5172	1804-1876	3.84	0	96
191	5084-5172	1812-1884	3.84	0	96
192	5084-5172	1820-1892	3.84	0	96
193	5172-5132	1828-1900	1.92	0	48
194	5180-5132	1832-1908	1.96	0	49
195	5188-5132	1844-1916	2.28	0	57

Daily Totals
VP's: 705
Skips: 1
Lin.Kms: 28.2400
Day.Sq.Klms: 8.9826

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: 12.095

HOURS

Working Time -
Recording: 8.4
Requested Experimental: 0.5
Waiting on Spread: 0.7
Vibe Detour: 0.7
Terrain Detour: 1.4
Traverse Move: 1.4
Panel Move: 0.3
Other: 0.3

Down Time -
Human Error: 0.3
Troubleshooting: 0.3
Recorder: 0.3
Vibes: 0.3
WOS: 0.3
Tests / Other: 0.3

Non-Charge Time -
Travel Time: 0.7

Standby Time -
Toolbox/Safety Meeting: 0.3
Induction: 0.3
Weather: 0.3
Other: 0.3

Other -
Mobilisation: 0.3
Intraprospect Move: 0.3
Spread Layout/Pickup: 0.3
Crew Demobe/Remobe: 0.3

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			

Total Crew #'s: 45 Line #'s: 27 Light Vehicle #'s: 22

Equipment Report Bad Phones: 7 Bad Cable: 1

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				Scanlon			
Hours		11.5		Hours		11.25	
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	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:			
Traversal 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

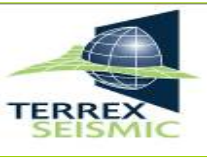
13/03/2007

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				Scanlon			
Hours				Hours			
Travel				Travel			
Standby				Standby			
Down				Down			
Hole caps				Biovis			
				Aus Gel			
				Blades			
				Other			

Crew Manager

Client Rep _____



Terrex Seismic
Daily Report

Client.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

CREW 402

Party Manager..

Client Rep.....

Weather.....

DATE.....

Mark Kneipp

Bruce Beer

Fine / Warm/ Overcast

Wednesday, 14 March 2007

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's	
		Continue Panel 2				
199	5124-5084	1876-1948	1.92	0	48	
200	5124-5084	1884-1956	1.92	0	48	
201	5124-5084	1892-1964	1.92	0	48	
202	5084-5228	1900-1972	6.08	0	152	
203	5084-5228	1908-1980	6.08	0	152	
204	5228-5124	1916-1988	4.48	0	112	
205	5228-5124	1924-1996	4.48	0	112	

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: 11.533

HOOURS

Working Time -	Down Time -	Standby Time -		Daily Totals
Recording: 8.1	Human Error: 0.4	Toolbox/Safety Meeting: 0.3		Working Time: 10.6
Requested Experimental: 0.5	Troubleshooting: 0.7	Induction: 0.3		Standby Time: 0.3
Waiting on Spread: 0.2	Vibes: 0.2	Weather: 0.5		Down Time: 1.1
Vibe Detour: 0.2	WOS: 0.2	Other: 0.5		Non-Charge Time: 0.5
Terrain Detour: 1.7	Tests / Other: 0.1			Total Day Hrs: 12.5
Travel Move: 0.1	Non-Charge Time -			Cumulative Totals
Other: 0.5	Travel Time: 0.5			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 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

DSS & TERREX CONTRACTING - LINE PREPARATION

COMMENTS:

Continue Production

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

14/03/2007

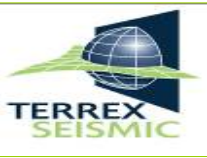
GAOG - Spinel 3D

Uphole #	Line	Station	Intersect	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	
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



Client.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

Terrex Seismic

Daily Report

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	
		Continue Panel 2				
204	5116-5084	1916-1988	1.6	0	40	
205	5116-5084	1924-1996	1.6	0	40	
206	5084-5228	1932-2004	6.08	0	152	
207	5228-5084	1940-2012	6.08	0	152	
208	5084-5228	1948-2020	6.08	0	152	
209	5084-5228	1956-2028	6.08	0	152	
210	5228	1964-2036	0.32	0	8	

Daily Totals

VP's: 696

Skips: 0

Lin.Kms: 27.8400

Day.Sq.Klms: 8.8554

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: 11.270

HOOURS

Working Time -	Down Time -	Standby Time -	
Recording: 7.9	Human Error:	Toolbox/Safety Meeting: 0.3	
Requested Experimental:	Troubleshooting: 0.3	Induction:	
Recorder Moveup:	Recorder: 0.1	Weather:	
Waiting on Spread:	Vibes:	Other:	
Vibe Detour: 0.3	WOS:		
Terrain Detour:	Tests / Other:	Other -	
Traverse Move: 2.8		Mobilisation:	
Panel Move:	Non-Charge Time -	Intraprospect Move:	
Swath Move: 0.2	Travel Time: 0.3	Spread Layout/Pickup:	
Other:		Crew Demobe/Remobe:	

Daily Totals

Working Time: 11.2

Standby Time: 0.3

Down Time: 0.4

Non-Charge Time: 0.3

Total Day Hrs: 12.2

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:

* 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	5223	139
2020	5085	5284	200	1924	5085	5232	148
2028	5284	5085	200	1932	5085	5240	156
2036	5284	5085	200	1940	5085	5190	106
				1948	5085	5190	106
Total Stations: 704				Total Stations: 655			

Equipment Report

Bad Phones: 8

Bad Cable: 2

Total Crew #'s: 45

Line #'s: 26

Light Vehicle #'s: 22

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	Hours	11.5	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..... 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.Klm: 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:			
Traverse Move:	1.9				
Panel Move:					
Non-Charge Time -		Non-Charge Time -		Intraprospect Move:	
		Swath Move:	0.1	Travel Time:	0.3
Other:				Spread Layout/Pickup:	
				Crew Demobe/Remobe:	

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			

Total Crew #'s: 45

Line #'s: 26

Light Vehicle #'s: 22

Equipment Report

Bad Phones: 6

Bad Cable: 1

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
	Travel	1
	Standby	
	Down	
	Hole caps	8

Scanlon	Hours	10
	Travel	1 (Supervisor) Brett Andrew
	Standby	(Driller) Russell St Jack
	Down	
	Biovis	2
	Aus Gel	
	Blades	4 3/4
Other		Aus Det

Crew Manager _____

Client Rep _____

	Terrex Seismic Daily Report		CREW 402	
	Client.....	GAOG	Party Manager..	Mark Kneipp
	Survey Name.	Spinel 3D	Client Rep.....	Bruce Beer
	Area.....	PEL's 91 - 106	Weather.....	Hot/Humid
	State.....	SA	DATE.....	Saturday, 17 March 2007

PRODUCTION							
Swath	Source	Receiver	Kms.	Skips	Vp's		
Continue Panel 2						Daily Totals	
213	5188-5036	1988-2060	4.16	0	104	VP's:	424
214	5036-5228	1996-2068	5.76	0	144	Skips:	8
215	5036-5228	2004-2076	5.76	8	136	Lin.Kms:	17.2800
216	5228-5196	2012-2084	1.6	0	40	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 -		Daily Totals	
Recording:	6.8	Human Error:		Toolbox/Safety Meeting:	0.3	Working Time:	10.3
Requested Experimental:		Troubleshooting:	0.6	Induction:		Standby Time:	0.3
Recorder Moveup:	0.5	Recorder:		Weather:		Down Time:	1.3
Waiting on Spread:		Vibes:		Other:		Non-Charge Time:	0.4
Vibe Detour:	0.7	WOS:				Total Day Hrs:	12.3
Terrain Detour:		Tests / Other:	0.7	Other -		Cumulative Totals	
Traverse Move:	2.3			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: *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		
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		Hours	11	Scanlon		Hours	11.75
Nathan Jones	Travel	1		Travel	1	(Supervisor) Brett Andrew	
	Standby			Standby		(Driller) Russell St Jack	
	Down			Down			
	Hole caps	10		Biovis	3		
				Aus Gel			
				Blades	1	4 3/4	
				Other		Aus Del	

Crew Manager _____	Client Rep _____
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Terrex Seismic Daily Report

Client.....
Survey Name.....
Area.....
State.....

GAOG
Spinel 3D
PEL's 91 - 106
SA

Party Manager.....
Client Rep.....
Weather.....
DATE.....

CREW 402
Mark Kneipp
Bruce Beer
Hot/Dry
Sunday, 18 March 2007

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's
Continue Panel 2					
216	5188-5036	2012-2084	4.16	1	103
217	5036-5228	2020-2092	5.76	0	144
218	5036-5228	2028-2100	5.76	0	144
219	5228-5196	2036-2108	1.6	0	40

Daily Totals
VP's: 431
Skips: 1
Lin.Kms: 17.2800
Day.Sq.Klms: 5.4964

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 -	
Recording:	7.3	Human Error:		Toolbox/Safety Meeting:	0.3
Requested Experimental:		Troubleshooting:	0.8	Induction:	
Recorder Moveup:		Recorder:	0.1	Weather:	
Waiting on Spread:		Vibes:		Other:	
Vibe Detour:	1.1	WOS:			
Terrain Detour:		Tests / Other:		Other -	
Traversal Move:	2.0			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: 10.5
Standby Time: 0.3
Down Time: 0.9
Non-Charge Time: 0.5
Total Day Hrs: 12.2

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 431 vps, also shot 160 overlap vps. 1 skips due to a salt lake.
*Many small detours on traverse totaling 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
Nathan Jones	Travel	1
	Standby	
	Down	0.25
	Hole caps	12

Scanlon	Hours	11.25
	Travel	1
	Standby	
	Down	0.25
	Biovis	3
	Aus Gel	
	Blades	4 3/4
	Other	Aus Det

Down time: Safety Meeting.

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client.....
Survey Name.....
Area.....
State.....

GAOG
Spinel 3D
PEL's 91 - 106
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
Continue Panel 2					
219	5188-5092	2036-2108	4.16	0	104
220	5092-5228	3044-2116	5.76	0	144
221	5092-5228	2052-2124	5.76	0	144
222	5228-5172	2060-2132	2.56	0	64

Daily Totals
VP's: 456
Skips: 0
Lin.Kms: 18.2400
Day.Sq.Klms: 5.8018

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: 10.331

HOURS

Working Time -		Down Time -		Standby Time -	
Recording:	6.8	Human Error:		Toolbox/Safety Meeting:	0.3
Requested Experimental:		Troubleshooting:		Induction:	
Recorder Moveup:		Recorder:	0.1	Weather:	
Waiting on Spread:		Vibes:	0.1	Other:	
Vibe Detour:	2.0	WOS:			
Terrain Detour:		Tests / Other:		Other -	
Traversal Move:	2.4			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: 11.3
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:

*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			

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

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				Scanlon			
Hours				11	Hours		
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 Del

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..... Tuesday, 20 March 2007

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's
Continue Panel 2					
222	5164-5044	2060-2132	3.2	0	80
223	5044-5228	2068-2140	5.76	0	144
224	5044-5228	2076-2148	5.76	0	144
225	5044-5228	2084-2156	5.76	0	144
226	5228	2092-2164	0.32	0	8
227	5228	2100-2172	0.32	0	8

Daily Totals
VP's: 528
Skips: 0
Lin.Kms: 21.1200
Day.Sq.Klms: 6.7179

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: 10.120

HOURS

Working Time -
Recording: 8.4
Requested Experimental:
Recorder Moveup:
Waiting on Spread:
Vibe Detour: 0.2
Terrain Detour:
Traverse Move:
Panel Move:
Swath Move: 0.2
Other:

Down Time -
Human Error:
Troubleshooting:
Recorder:
Vibes: 0.3
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: 11.0
Standby Time: 0.3
Down Time: 0.3
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:

*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			

Total Crew #'s: 44

Line #'s: 25

Light Vehicle #'s: 22

Equipment Report

Bad Phones: 8

Bad Cable: 1

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				Scanlon			
Hours		10.25	Hours		11		
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 Del		

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client.....
Survey Name.....
Area.....
State.....

GAOG
Spinel 3D
PEL's 91 - 106
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
Continue Panel 2					
228	5196-5228	2108-2180	1.6	0	40
229	5196-5228	2116-2188	1.6	0	40
230	5228-5092	2124-2196	5.76	0	144
231	5228-5092	2132-2204	5.76	0	144
232	5092-5140	2140-2212	2.24	0	56
233	5092-5140	2148-2220	2.24	0	56

Daily Totals
VP's: 480
Skips: 0
Lin.Kms: 19.2000
Day.Sq.Klms: 6.1071

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: 9.724

HOURS

Working Time -		Down Time -		Standby Time -	
Recording:	6.9	Human Error:	0.3	Toolbox/Safety Meeting:	0.3
Requested Experimental:		Troubleshooting:		Induction:	
Recorder Moveup:		Recorder:	1.3	Weather:	
Waiting on Spread:		Vibes:		Other:	
Vibe Detour:	0.9	WOS:			
Terrain Detour:		Tests / Other:		Other -	
Traverse Move:	1.6			Mobilisation:	
Panel Move:		Non-Charge Time -		Intraprospect Move:	
Swath Move:	0.4	Travel Time:	0.7	Spread Layout/Pickup:	
Other:				Crew Demobe/Remobe:	

Daily Totals
Working Time: 9.8
Standby Time: 0.3
Down Time: 1.6
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:

* 19.20 km recorded from 480 vps, also shot 96 overlap vp's.
* 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	Intersect	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				Scanlon			
Hours		10	Hours		10		
Travel		1	Travel		1	(Supervisor) Brett Andrew	
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.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

CREW 402

Party Manager..

Client Rep.....

Weather.....

DATE.....

Mark Kneipp

Bruce Beer

Warm/Windy

Friday, 23 March 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.Klms: 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
Travel 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 Innamincka 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			

Equipment Report

Equipment Report	Bad Phones:	Bad Cable:
	9	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	Scanlon	Hours
	12		12.5
Travel	1		1
Standby			
Down			
Hole caps	14		

Scanlon	Hours	Comments
Travel	1	(Supervisor) Brett Andrew
Standby		(Driller) Russell St Jack
Down		(Offsider) Joe Smiler
Biovis	3	
Aus Gel		
Blades	4 3/4	
Other		Aus Det

Crew Manager

Client Rep



Terrex Seismic
Daily Report

Client.....
Survey Name.....
Area.....
State.....

GAOG
Spinel 3D
PEL's 91 - 106
SA

CREW 402
Party Manager.. Mark Kneipp
Client Rep..... Bruce Beer
Weather..... Cool/Windy/Morning Shower
DATE..... Saturday, 24 March 2007

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's
Continue Panel 2					
237	5212-5092	2174-2252	5.12	0	128
238	5212-5092	2188-2260	5.12	0	128
239	5092-5228	2296-2268	5.76	0	144
240	5092-5228	2204-2276	5.76	0	144
241	5228-5204	2212-2284	1.28	0	32
242	5228-5204	2220-2292	1.28	0	32

Daily Totals
VP's: 608
Skips: 0
Lin.Kms: 24.3200
Day.Sq.Klms: 7.7357

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: 9.357

HOURS

Working Time -		Down Time -		Standby Time -	
Recording:	7.7	Human Error:		Toolbox/Safety Meeting:	0.3
Requested Experimental:		Troubleshooting:	0.5	Induction:	
Recorder Moveup:	0.6	Recorder:	0.3	Weather:	
Waiting on Spread:		Vibes:		Other:	
Vibe Detour:	1.2	WOS:			
Terrain Detour:		Tests / Other:		Other -	
Traversal Move:	1.8			Mobilisation:	
Panel Move:		Non-Charge Time -		Intraprospect Move:	
Swath Move:	0.2	Travel Time:	0.4	Spread Layout/Pickup:	
Other:				Crew Demobe/Remobe:	

Daily Totals
Working Time: 11.5
Standby Time: 0.3
Down Time: 0.8
Non-Charge Time: 0.4
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:

*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

Party Manager.....

Mark Kneipp

Client Rep.....

Bruce Beer

Weather.....

Cool/Windy

DATE.....

Sunday, 25 March 2007

CREW 402

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's	
		Continue Panel 2				
241	5196-5092	2212-2284	4.48	0	112	
242	5196-5092	2228-2292	4.48	0	112	
243	5092-5228	2236-2300	5.76	0	144	
244	5092-5228	2244-2308	5.76	0	144	
245	5228-5156	2252-2316	2.96	0	74	
246	5228-5156	2260-2324	3.2	0	80	

Daily Totals

VP's: 666

Skips: 0

Lin.Kms: 26.6400

Day.Sq.Klms: 8.4737

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: 9.183

HOURS

Working Time -	Down Time -	Standby Time -	
Recording: 8.4	Human Error:	Toolbox/Safety Meeting: 0.3	
Requested Experimental:	Troubleshooting: 0.2	Induction:	
Recorder Moveup:	Recorder: 0.5	Weather:	
Waiting on Spread:	Vibes:	Other:	
Vibe Detour: 0.6	WOS:		
Terrain Detour:	Tests / Other:	Other -	
Traversal Move: 2.0		Mobilisation:	
Panel Move:	Non-Charge Time -	Intraprospect Move:	
Swath Move:	Travel Time: 0.8	Spread Layout/Pickup:	
Other:		Crew Demobe/Remobe:	

Daily Totals

Working Time: 11.0

Standby Time: 0.3

Down Time: 0.7

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:

*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 : 853				Total Stations: 978			

Equipment Report

Bad Phones: 11

Bad Cable: 0

Total Crew #'s: 46

Line #'s: 25

Light Vehicle #'s: 22

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
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 _____



Client.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

Terrex Seismic

Daily Report

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
						VP's: 576
						Skips: 0
						Lin.Kms: 23.0400
						Day.Sq.Klms: 7.3286
						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: 8.855

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	Interse	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
	Travel	1.25		Travel	1.25 (Supervisor) Brett Andrew
Nathan Jones	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 _____



Client.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

Terrex Seismic

Daily Report

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	
		Continue Panel 2				
254	5148-5228	2316-2388	3.52	0	88	
255	5148-5228	2324-2396	3.52	0	88	
256	5228-5092	2432-2404	5.76	0	144	
257	5228-5092	2440-2412	5.76	0	144	
258	5092-5228	2448-2420	5.76	0	144	
259	5228-5220	2456-2428	0.64	0	16	

Daily Totals

VP's: 624

Skips: 0

Lin.Kms: 24.9600

Day.Sq.Klms: 7.9393

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: 8.700

HOURS

Working Time -	Down Time -	Standby Time -	
Recording: 7.6	Human Error:	Toolbox/Safety Meeting: 0.3	
Requested Experimental:	Troubleshooting: 0.5	Induction:	
Recorder Moveup:	Recorder:	Weather:	
Waiting on Spread:	Vibes:	Other:	
Vibe Detour: 0.9	WOS:		
Terrain Detour:	Tests / Other:	Other -	
Traverse Move: 2.1		Mobilisation:	
Panel Move:	Non-Charge Time -	Intraprospect Move:	
Swath Move: 0.1	Travel Time: 0.9	Spread Layout/Pickup:	
Other:		Crew Demobe/Remobe:	

Daily Totals

Working Time: 10.7

Standby Time: 0.3

Down Time: 0.5

Non-Charge Time: 0.9

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:

* 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			

Equipment Report

Bad Phones: 7

Bad Cable: 1

Total Crew #'s: 46

Line #'s: 25

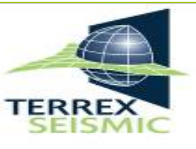
Light Vehicle #'s: 22

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

Party Manager..

Mark Kneipp

Client Rep.....

Bruce Beer

Weather.....

Fine/Cool

DATE.....

Friday, 30 March 2007

CREW 402

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's	
		Continue Panel 2				
259	5188-5092	2456-2428	4.16	0	104	
260	5092-5228	2464-2436	5.76	2	144	
261	5092-5228	2472-2444	5.76	20	144	
262	5228-5148	2480-2452	3.52	25	88	
263	5228-5148	2488-2460	3.52	21	88	

Daily Totals

VP's: 568

Skips: 68

Lin.Kms: 22.7200

Day.Sq.Klms: 7.2268

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: 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: 0.3		Standby Time: 0.3
Recorder Moveup:	Recorder: 0.2	Weather: 1.7		Down Time: 1.7
Waiting on Spread:	Vibes: 0.1	Other: 0.7		Non-Charge Time: 0.7
Vibe Detour: 1.2	WOS: 1.2			Total Day Hrs: 12.6
Terrain Detour:	Tests / Other: 1.2			Cumulative Totals
Traversal Move: 1.7		Other -		Working Time(Job): 820.0
Panel Move:	Non-Charge Time -	Mobilisation:		Standby Time(Job): 78.7
Swath Move: 0.3	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:

* 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 avoided

*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

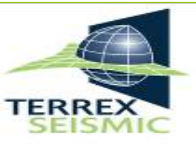
Light Vehicle #'s: 22

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

CREW 402

Party Manager..

Client Rep.....

Weather.....

DATE.....

Mark Kneipp

Bruce Beer

Fine/Cool

Saturday, 31 March 2007

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's		Daily Totals
		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		
266	5092-5172	2412-2484	3.52	0	88		
267	5092-5172	2420-2492	3.2	0	80		

Cumulative Totals

Cum. VP's:

Cum.Lin.Kms:

Cum.Sq.Klms:

Lin.Kms.Remaining:

Sq.Kms.Remaining:

% Completed:

Average Daily Production Sq. Kms:

38956

1559.040

495.900

0.000

0.000

100.00%

8.265

HOURS

Working Time -	Down Time -	Standby Time -	Daily Totals
Recording: 7.3	Human Error:	Toolbox/Safety Meeting: 0.3	Working Time: 11.0
Requested Experimental:	Troubleshooting: 0.4	Induction:	Standby Time: 0.3
Recorder Moveup: 0.7	Recorder:	Weather:	Down Time: 0.5
Waiting on Spread:	Vibes: 0.1	Other:	Non-Charge Time: 0.9
Vibe Detour: 0.3	WOS:		Total Day Hrs: 12.7
Terrain Detour:	Tests / Other:	Other -	Cumulative Totals
Traversal Move: 2.5		Mobilisation:	Working Time(Job): 820.0
Panel Move:	Non-Charge Time -	Intraprospect Move:	Standby Time(Job): 78.7
Swath Move: 0.2	Travel Time: 0.9	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 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

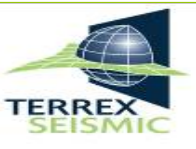
Light Vehicle #'s: 22

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

CREW 402

Party Manager..

Client Rep.....

Weather.....

DATE.....

Mark Kneipp

Bruce Beer

Fine/Cool

Sunday, 1 April 2007

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's	
		Continue Panel 2				
266	5180-5228	2412-2484	2.24	0	56	
267	5172-5228	2420-2492	2.56	0	64	
268	5228-5092	2428-2500	5.76	0	144	
269	5228-5092	2426-2508	5.76	0	144	
270	5092-5156	2444-2516	3.2	0	80	
271	5092-5156	2452-2524	3.2	0	80	

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.Klms: 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
Traversal 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

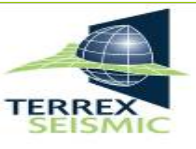
Light Vehicle #'s: 22

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

Party Manager.....

Mark Kneipp

Client Rep.....

Bruce Beer

Weather.....

Fine/Cool

DATE.....

Monday, 2 April 2007

CREW 402

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's	
		Continue Panel 2				
270	5172-5228	2444-2516	2.56	0	64	
271	5172-5228	2452-2524	2.56	0	64	
272	5228-5092	2460-2532	5.76	0	144	
273	5228-5092	2468-2540	5.76	0	144	
274	5092-5204	2476-2548	4.8	0	120	
275	5092-5204	2484-2556	4.8	0	120	

Daily Totals

VP's: 656

Skips: 0

Lin.Kms: 26.2400

Day.Sq.Klms: 8.3464

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: 7.998

HOURS

Working Time -	Down Time -	Standby Time -		Daily Totals
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 -		Cumulative Totals
Traversal 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

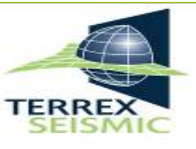
Light Vehicle #'s: 22

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

CREW 402

Party Manager..

Client Rep.....

Weather.....

DATE.....

Mark Kneipp

Bruce Beer

Fine/Cool

Tuesday, 3 April 2007

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's		Daily Totals
		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		
278	5092-5228	2508-2580	5.76	0	144		Cumulative Totals
279	5092-5228	2516-2588	5.76	0	144		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: 7.871

HOURS

Working Time -	Down Time -	Standby Time -		Daily Totals
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 -		Cumulative Totals
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

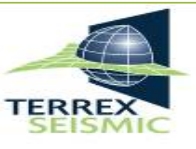
Light Vehicle #'s: 22

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

CREW 402

Party Manager..

Client Rep.....

Weather.....

DATE.....

Mark Kneipp

Bruce Beer

Fine/Cool

Wednesday, 4 April 2007

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's		Daily Totals
		Continue Panel 2					VP's: 640
280	5228-5092	2524-2596	5.76	0	144		Skips: 0
281	5228-5092	2532-2604	5.76	0	144		Lin.Kms: 25.6000
282	5092-5228	2540-2612	5.76	0	144		Day.Sq.Klms: 8.1429
283	5092-5228	2548-2620	5.76	0	144		
284	5228-5204	2556-2628	1.28	0	32		
285	5228-5204	2564-2636	1.28	0	32		

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: 7.748

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:		Standby Time: 0.3
Recorder Moveup:	Recorder: 0.5	Weather:		Down Time: 0.7
Waiting on Spread:	Vibes:	Other:		Non-Charge Time: 0.7
Vibe Detour: 0.5	WOS:			Total Day Hrs: 12.3
Terrain Detour:	Tests / Other:	Other -		Cumulative Totals
Travel 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:

* 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	120
2620	5093	5284	192	2516	5165	5284	120
2628	5093	5284	192	2524	5093	5284	192
2636	5093	5284	192	2532	5093	5284	192
2644	5093	5164	72	2540	5093	5284	192
				2548	5093	5284	192
Total Stations:		840		Total Stations:		1008	

Total Crew #'s: 45

Line #'s: 27

Light Vehicle #'s: 22

Equipment Report

Bad Phones: 10

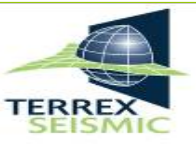
Bad Cable:

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____



Terrex Seismic

Daily Report

Client.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

CREW 402

Party Manager..

Client Rep.....

Weather.....

DATE.....

Mark Kneipp

Bruce Beer

Fine/Cool

Thursday, 5 April 2007

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's		Daily Totals
		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		
289	5228-5164	2596-2668	2.88	0	72		
							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: 7.629

HOURS

Working Time -	Down Time -	Standby Time -	Daily Totals
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 -	Cumulative Totals
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

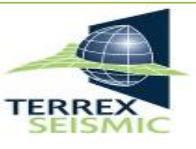
Light Vehicle #'s: 22

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

CREW 402

Party Manager..

Client Rep.....

Weather.....

DATE.....

Mark Kneipp

Bruce Beer

Fine/Cool

Friday, 6 April 2007

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's		Daily Totals
		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		
292	5228-5092	2620-2692	5.76	0	144		Cumulative Totals
293	5092-5124	2628-2700	1.6	0	40		Cum. VP's: 38956
294	5092-5116	2636-2708	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: 7.514

HOURS

Working Time -	Down Time -	Standby Time -	Daily Totals
Recording: 7.8	Human Error: 0.2	Toolbox/Safety Meeting: 0.3	Working Time: 11.5
Requested Experimental:	Troubleshooting: 0.2	Induction:	Standby Time: 0.3
Recorder Moveup: 0.8	Recorder: 0.1	Weather:	Down Time: 0.5
Waiting on Spread:	Vibes:	Other:	Non-Charge Time: 0.5
Vibe Detour: 0.5	WOS:		Total Day Hrs: 12.8
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: 0.5	Spread Layout/Pickup:	Down Time(Job): 48.4
Other:		Crew Demobe/Remobe:	Non-Charge Time(Job): 42.0
			Total Hrs (Job): 1037.8

COMMENTS:

* 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

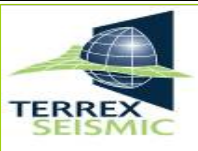
Light Vehicle #'s: 22

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

Daily Totals
VP's: 648
Skips: 0
Lin.Kms: 25.9200
Day.Sq.Klms: 8.2446

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: 7.401

HOURS

Working Time -	Down Time -	Standby Time -
Recording: 8.6	Human Error: 0.1	Toolbox/Safety Meeting: 0.3
Requested Experimental: 0.5	Recorder: 0.5	Induction: 0.6
Recorder Moveup: 0.5	Weather: 0.6	Weather: 0.6
Waiting on Spread: 0.3	Vibes: 0.3	Other: 0.3
Vibe Detour: 0.3	WOS: 0.3	Other - 0.3
Terrain Detour: 0.3	Tests / Other: 0.3	Mobilisation: 0.3
Travel Move: 2.3	Non-Charge Time - 0.3	Intraprospect Move: 0.3
Panel Move: 0.1	Travel Time: 0.3	Spread Layout/Pickup: 0.3
Swath Move: 0.1		Crew Demobe/Remobe: 0.3
Other: 0.3		

Daily Totals
Working Time: 11.0
Standby Time: 0.3
Down Time: 0.6
Non-Charge Time: 0.3
Total Day Hrs: 12.2
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:

* 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

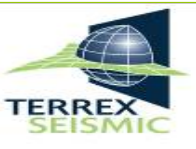
Light Vehicle #'s: 22

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		Daily Totals
		Continue Panel 2					VP's: 616
298	5300-5092	2668-2740	8.64	0	216		Skips: 0
299	5092-5284	2676-2748	8	0	200		Lin.Kms: 24.6400
300	5092-5284	2684-2756	8	0	200		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 -		Daily Totals
Recording: 7.5	Human Error:	Toolbox/Safety Meeting: 0.3		Working Time: 10.8
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: 0.3
Vibe Detour: 0.2	WOS:			Total Day Hrs: 11.9
Terrain Detour:	Tests / Other:	Other -		Cumulative Totals
Traverse Move: 2.5		Mobilisation:		Working Time(Job): 820.0
Panel Move:	Non-Charge Time -	Intraprospect Move:		Standby Time(Job): 78.7
Swath Move: 0.6	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:

* 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.Klms: 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
Requested Experimental:	Troubleshooting:	Induction:
Recorder Moveup:	Recorder:	Weather:
Waiting on Spread:	Vibes:	Other:
Vibe Detour: 0.4	WOS:	
Terrain Detour:	Tests / Other:	Other -
Traversal Move: 1.8		Mobilisation:
Panel Move:	Non-Charge Time -	Intraprospect Move:
Swath Move: 0.1	Travel Time: 0.3	Spread Layout/Pickup:
Other:		Crew Demobe/Remobe:

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

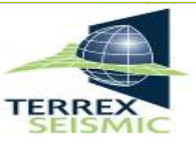
Light Vehicle #'s: 22

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

CREW 402

Party Manager..

Client Rep.....

Weather.....

DATE.....

Mark Kneipp

Bruce Beer

Fine/Cool

Tuesday, 10 April 2007

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's	
		Continue Panel 2				
303	5220-5300	2708-2780	3.52	0	88	
304	5220-5300	2716-2788	3.52	0	88	
305	5300-5092	2724-2796	8.64	0	216	
306	5300-5092	2732-2804	8.64	0	216	
307	5092-5124	2740-2812	1.6	0	40	
308	5092-5124	2748-2820	1.6	0	40	

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.Klms: 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: 0.6	Troubleshooting: 0.2	Induction: 0.4		Standby Time: 0.3
Recorder Moveup: 0.6	Recorder: 0.2	Weather: 0.4		Down Time: 0.4
Waiting on Spread: 0.4	Vibes: 0.4	Other: 0.4		Non-Charge Time: 0.4
Vibe Detour: 0.4	WOS: 0.4			Total Day Hrs: 12.7
Terrain Detour: 2.1	Tests / Other: 0.4	Other -		Cumulative Totals
Travel Move: 2.1	Non-Charge Time -	Mobilisation: 0.4		Working Time(Job): 820.0
Panel Move: 0.4	Travel Time: 0.4	Intraprospect Move: 0.4		Standby Time(Job): 78.7
Swath Move: 0.4		Spread Layout/Pickup: 0.4		Down Time(Job): 48.4
Other: 0.4		Crew Demobe/Remobe: 0.4		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

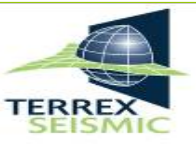
Light Vehicle #'s: 22

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		Daily Totals
		Continue Panel 2					VP's: 752
307	5132-5300	2740-2812	7.04	0	176		Skips: 0
308	5132-5300	2748-2820	7.04	0	176		Lin.Kms: 30.0800
309	5300-5108	2756-2828	8	0	200		Day.Sq.Klms: 9.5679
310	5300-5108	2764-2836	8	0	200		
							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 -	Daily Totals
Recording: 9.0	Human Error:	Toolbox/Safety Meeting: 0.3	Working Time: 11.3
Requested Experimental:	Troubleshooting: 0.1	Induction:	Standby Time: 0.3
Recorder Moveup:	Recorder: 0.1	Weather:	Down Time: 0.2
Waiting on Spread:	Vibes:	Other:	Non-Charge Time: 0.5
Vibe Detour: 0.2	WOS:		Total Day Hrs: 12.3
Terrain Detour:	Tests / Other:	Other -	Cumulative Totals
Traversal 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: 0.5	Spread Layout/Pickup:	Down Time(Job): 48.4
Other:		Crew Demobe/Remobe:	Non-Charge Time(Job): 42.0
			Total Hrs (Job): 1037.8

COMMENTS:

* 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	
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	

Total Crew #'s: 45

Line #'s: 25

Light Vehicle #'s: 21

Equipment Report

Bad Phones: 4

Bad Cable:

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____

Page 98 of 105



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.Klms: 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 -
Recording: 8.2
Requested Experimental:
Recorder Moveup:
Waiting on Spread:
Vibe Detour: 0.8
Terrain Detour:
Traversal Move: 1.8
Panel Move:
Swath Move: 0.1
Other:

Down Time -
Human Error:
Troubleshooting: 0.2
Recorder: 0.2
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: 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	
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

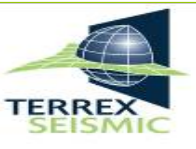
Light Vehicle #'s: 21

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

CREW 402

Party Manager..

Client Rep.....

Weather.....

DATE.....

Mark Kneipp

Bruce Beer

Fine/Cool

Friday, 13 April 2007

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's	
		Continue Panel 2				
313	5196-5092	2788-2860	4.48	0	112	
314	5196-5092	2796-2868	4.48	0	112	
315	5092-5300	2804-2876	8.64	0	216	
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	

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: 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

Total Crew #'s: 46

Line #'s: 24

Light Vehicle #'s: 21

Equipment Report

Bad Phones: 4

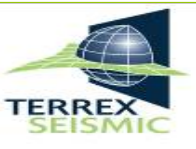
Bad Cable:

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

CREW 402

Party Manager..

Client Rep.....

Weather.....

DATE.....

Mark Kneipp

Bruce Beer

Fine/Cool

Saturday, 14 April 2007

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's	
		Continue Panel 2				
317	5268-5092	2820-2892	7.36	0	184	
318	5268-5092	2828-2892	7.36	0	184	
319	5092-5204	2836-2892	4.8	0	120	
320	5092-5204	2844-2892	4.8	0	120	
321	5092-5204	2852-2892	4.8	0	120	

Daily Totals

VP's: 728

Skips: 0

Lin.Kms: 29.1200

Day.Sq.Klms: 9.2625

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: 6.701

HOURS

Working Time -	Down Time -	Standby Time -		Daily Totals
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 -		Cumulative Totals
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		

Total Crew #'s: 46

Line #'s: 24

Light Vehicle #'s: 21

Equipment Report

Bad Phones:

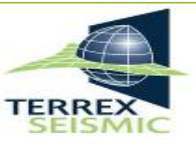
Bad Cable:

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____



Terrex Seismic
Daily Report

Client.....

Survey Name.....

Area.....

State.....

GAOG

Spinel 3D

PEL's 91 - 106

SA

CREW 402

Party Manager..

Client Rep.....

Weather.....

DATE.....

Mark Kneipp

Bruce Beer

Fine/Cool

Sunday, 15 April 2007

PRODUCTION

Swath	Source	Receiver	Kms.	Skips	Vp's		Daily Totals
						Continue Panel 2	VP's: 288
							Skips: 0
							Lin.Kms: 11.5200
							Day.Sq.Klms: 3.6643
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		
							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 -	Daily Totals
Recording: 3.6	Human Error:	Toolbox/Safety Meeting: 0.3	Working Time: 4.1
Requested Experimental:	Troubleshooting: 0.4	Induction:	Standby Time: 0.3
Recorder Moveup:	Recorder:	Weather:	Down Time: 0.4
Waiting on Spread:	Vibes:	Other:	Non-Charge Time: 0.6
Vibe Detour:	WOS:		Total Day Hrs: 11.0
Terrain Detour:	Tests / Other:	Other -	Cumulative Totals
Traverse Move: 0.5		Mobilisation:	Working Time(Job): 820.0
Panel Move:	Non-Charge Time -	Intraprospect Move:	Standby Time(Job): 78.7
Swath Move:	Travel Time: 0.6	Spread Layout/Pickup: 5.6	Down Time(Job): 48.4
Other:		Crew Demobe/Remobe:	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
			2844	5146	5300
			2852	5093	5300
			2860	5093	5300
			2868	5093	5196
			2876	5093	5196
Total Stations: 0			Total Stations: 934		

Total Crew #'s: 46

Line #'s: 24

Light Vehicle #'s: 21

Equipment Report

Bad Phones: 2


Bad Cable:

VELOCITY DATA & SCANLON DRILLING DAILY REPORT

Drill. Program Complete

Crew Manager _____

Client Rep _____

	Terrex Seismic Daily Report		CREW 402	
	Client.....	GAOG	Party Manager..	Mark Kneipp
	Survey Name.	Spinel 3D	Client Rep.....	Bruce Beer
	Area.....	PEL's 91 - 106	Weather.....	Fine/Cool
State.....	SA	DATE.....	Monday, 16 April 2007	

PRODUCTION					Daily Totals
Swath	Source	Receiver	Kms.	Skips	Vp's
					VP's: 0
Continue Panel 2					Skips: 0
Recording Complete					Lin.Kms: 0.0000
					Day.Sq.Klms: 0.0000
					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: 6.612

HOURS					Daily Totals
Working Time -		Down Time -		Standby Time -	
Recording:		Human Error:		Toolbox/Safety Meeting: 0.3	
Requested Experimental:		Troubleshooting:		Induction:	
Recorder Moveup:		Recorder:		Weather:	
Waiting on Spread:		Vibes:		Other:	
Vibe Detour:		WOS:			
Terrain Detour:		Tests / Other:		Other -	
Traverse Move:				Mobilisation:	
Panel Move:		Non-Charge Time -		Intraprospect Move:	
Swath Move:		Travel Time:		Spread Layout/Pickup: 10.7	
Other:				Crew Demobe/Remobe:	
					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.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="6" style="text-align: left;">Spread Movement</td> </tr> <tr> <td colspan="3">Client: GAOG Spinel 3D</td> <td colspan="3">Date: Monday, 16 April 2007</td> </tr> <tr> <td colspan="3" style="text-align: center;">Layout</td> <td colspan="3" style="text-align: center;">Pickup</td> </tr> <tr> <td style="width: 10%;">Line</td> <td style="width: 10%;">Station #</td> <td style="width: 10%;">Tot</td> <td style="width: 10%;">Line</td> <td style="width: 10%;">Station #</td> <td style="width: 10%;">Tot</td> </tr> <tr> <td></td> <td></td> <td></td> <td>2868</td> <td>5197</td> <td>5300</td> </tr> <tr> <td></td> <td></td> <td></td> <td>2876</td> <td>5197</td> <td>5300</td> </tr> <tr> <td></td> <td></td> <td></td> <td>2884</td> <td>5093</td> <td>5300</td> </tr> <tr> <td></td> <td></td> <td></td> <td>2892</td> <td>5093</td> <td>5300</td> </tr> <tr> <td></td> <td></td> <td></td> <td>2868</td> <td>5093</td> <td>5300</td> </tr> <tr> <td></td> <td></td> <td></td> <td>2876</td> <td>5093</td> <td>5300</td> </tr> <tr> <td colspan="3" style="text-align: right;">Total Stations:</td> <td colspan="3" style="text-align: right;">Total Stations:</td> </tr> <tr> <td colspan="3" style="text-align: right;">0</td> <td colspan="3" style="text-align: right;">1040</td> </tr> <tr> <td colspan="6"> Equipment Report Bad Phones: Bad Cable: </td> </tr> </table>	Spread Movement						Client: GAOG Spinel 3D			Date: Monday, 16 April 2007			Layout			Pickup			Line	Station #	Tot	Line	Station #	Tot				2868	5197	5300				2876	5197	5300				2884	5093	5300				2892	5093	5300				2868	5093	5300				2876	5093	5300	Total Stations:			Total Stations:			0			1040			Equipment Report Bad Phones: Bad Cable:					
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Equipment Report Bad Phones: Bad Cable:																																																																															

Total Crew #'s: 46	Line #'s: 24	Light Vehicle #'s: 21
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VELOCITY DATA & SCANLON DRILLING DAILY REPORT Drill. Program Complete

Crew Manager _____	Client Rep _____
--------------------	------------------

APPENDIX I

RECORDING STATISTICS

RECORDING STATISTICS

Date	Mobilisation	Camp pickup / Setup	Laying Out, QC & Pickup Stakes	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	1.60	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	0.80	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			0.40	0.80	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			0.20	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					0.30				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		0.30			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			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				0.20	0.50	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	12.20	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			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	0.30	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	0.30	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						0.10	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									

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.

Table of Contents

INTRODUCTION.....	<u>1</u>
INSTRUMENTATION AND PERSONNEL.....	<u>2</u>
2.1 Personnel and Logistics.....	<u>2</u>
2.2 Equipment	<u>4</u>
SURVEY REFERENCE SYSTEMS.....	<u>5</u>
3.1 Geodetic Datum.....	<u>5</u>
3.2 Map Projection.....	<u>6</u>
3.3 Height Datum.....	<u>6</u>
SURVEY CONTROL.....	<u>8</u>
MONUMENTATION.....	<u>9</u>
METHOD OF SURVEY.....	<u>11</u>
6.1 Line Ranging.....	<u>11</u>
6.2 Surveying and Chaining.....	<u>12</u>
6.3 GPS Processing and Quality Control.....	<u>13</u>
DATA PRESENTATION.....	<u>15</u>
SAFETY.....	<u>16</u>
OPERATIONAL ASPECTS.....	<u>17</u>
CONCLUSION AND RECOMMENDATIONS.....	<u>19</u>
APPENDICES.....	<u>20</u>
Survey Control.....	<u>A - 1</u>
Control Network Diagram.....	<u>B - 1</u>
Receiver Line Length Summary.....	<u>C - 1</u>
Source Line Length Summary.....	<u>D - 1</u>
Plan View Map.....	<u>E - 1</u>
3D Map.....	<u>F - 1</u>
Environmental Monitoring Points.....	<u>G - 1</u>
Environmental Reference Points.....	<u>H - 1</u>
Upholes Listing.....	<u>I - 1</u>
Chronological Summary.....	<u>J - 1</u>
Photographs.....	<u>K - 1</u>



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 $\pm 0.02\text{m}$ 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

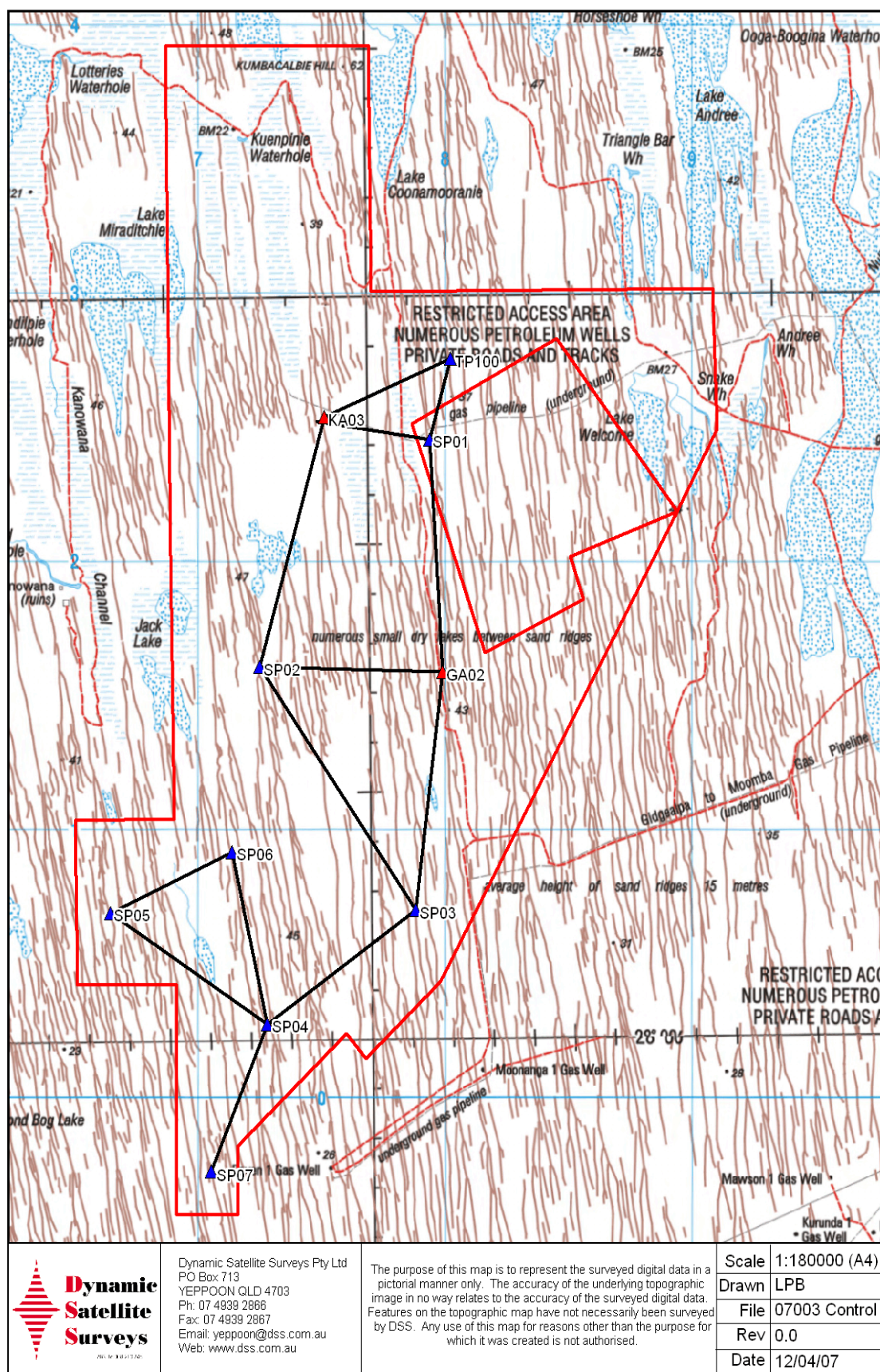
Survey Base Stations:

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

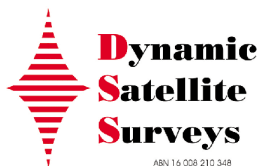
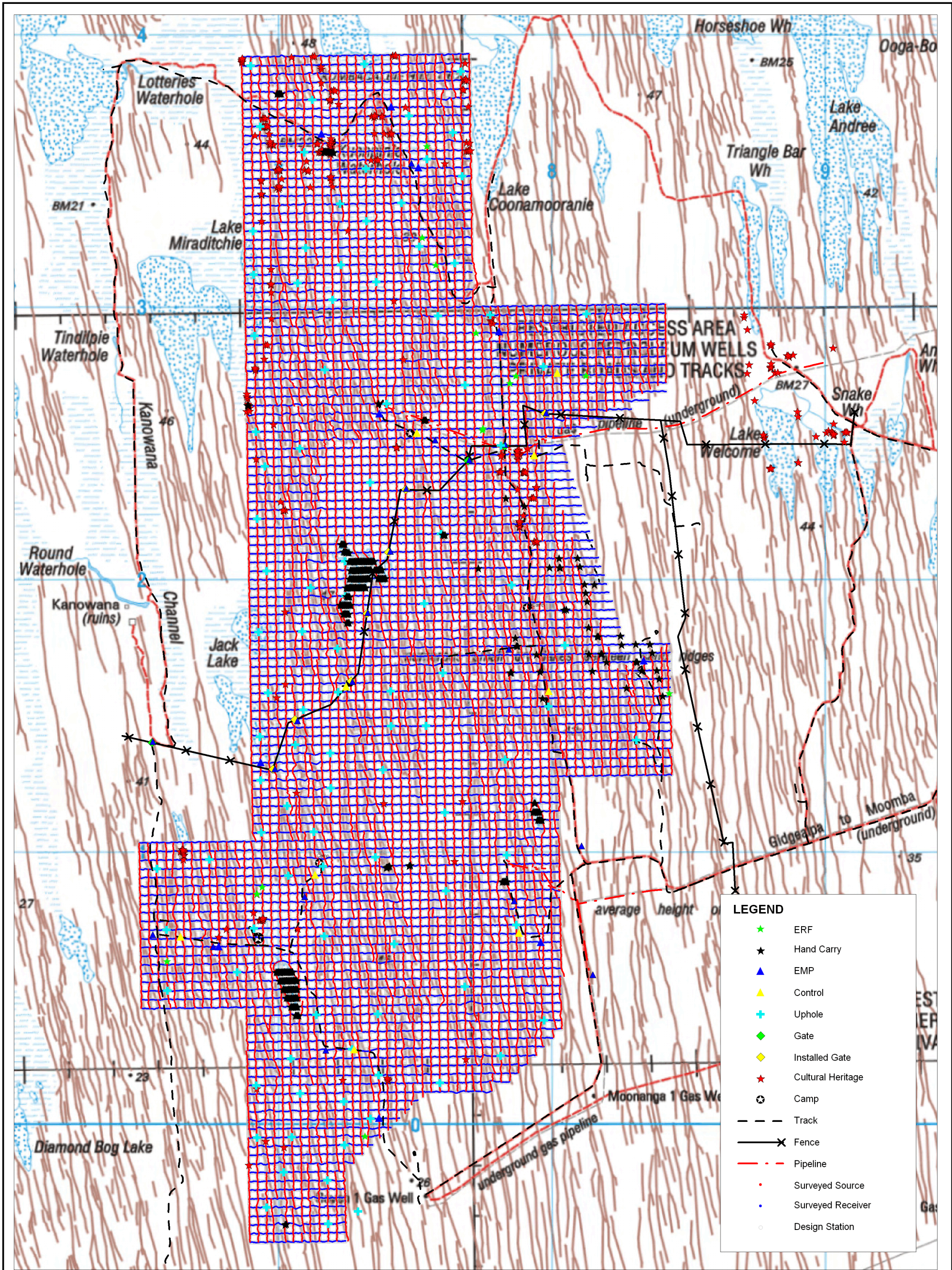
Spinel 3D - Source Line Summary

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



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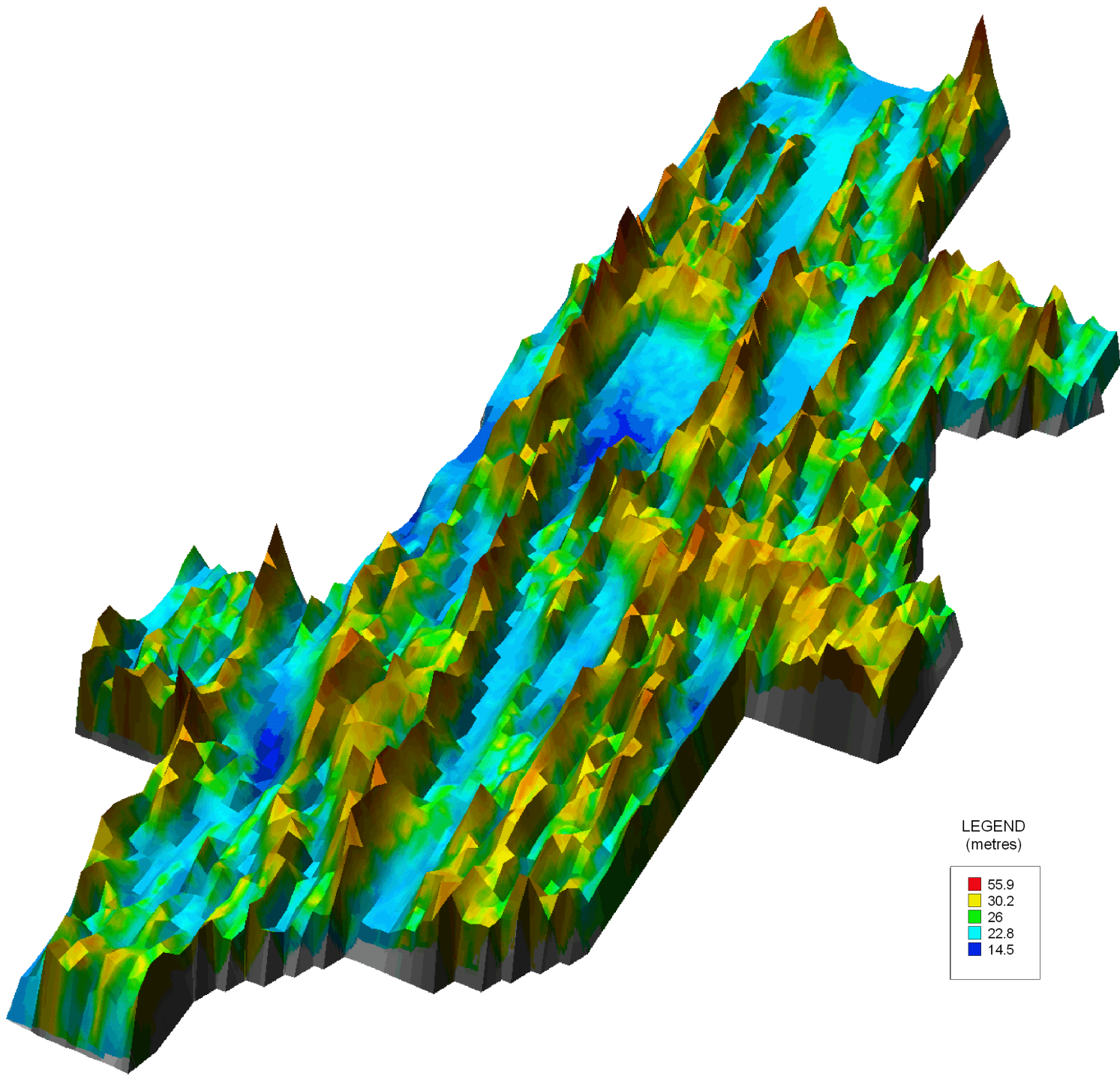
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Drawn	Denis Williams
File	Prospect Map
Date	10-04-2007
Rev	1.0

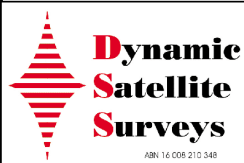
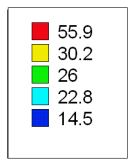
Greater Artesian Oil and Gas

SPINEL 3D

3D Map



LEGEND
(metres)



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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.	<i>Surveying Daily Total: 39.76 kms</i> <i>Dozing Daily Total: 40.24 kms</i>
Jan 8	Steep dunes slowing progress.	<i>Surveying Daily Total: 45.32 kms</i> <i>Dozing Daily Total: 43.16 kms</i>
Jan 9	D5 repair fault (2.5 hrs). Grader down (1 hrs) with flat tyre Ben collected deviation from Tirrawarra.	<i>Surveying Daily Total: 34.96 kms</i> <i>Dozing Daily Total: 41.48 kms</i>
Jan 10	Steep dunes slowing progress.	<i>Surveying Daily Total: 32.16 kms</i> <i>Dozing Daily Total: 44.76 kms</i>
Jan 11	Evening toolbox meeting.	<i>Surveying Daily Total: 33.56 kms</i> <i>Dozing Daily Total: 44.28 kms</i>
Jan 12	Evening toolbox meeting.	<i>Surveying Daily Total: 28.56 kms</i> <i>Dozing Daily Total: 46.36 kms</i>
Jan 13	Dozers working on source = high production.	<i>Surveying Daily Total: 51.68 kms</i> <i>Dozing Daily Total: 80.92 kms</i>
Jan 14	D8 down (0.5 hrs) for servicing. Evening Safety Meeting.	<i>Surveying Daily Total: 26.40 kms</i> <i>Dozing Daily Total: 53.88 kms</i>
Jan 15	Chris Carty visited DSS crew - Ben took CC around to show progress.	<i>Surveying Daily Total: 39.60 kms</i> <i>Dozing Daily Total: 50.64 kms</i>

Date	Survey Operations	
Jan 16	D7 down for maintenance.	<i>Surveying Daily Total: 38.24 kms</i> <i>Dozing Daily Total: 45.32 kms</i>
Jan 17	D7 down (8.5 hrs) for maintenance. Grader down (1 hr) flat tyre.	<i>Surveying Daily Total: 33.68 kms</i> <i>Dozing Daily Total: 40.52 kms</i>
Jan 18	Standby (10 hrs) all day due to overnight rain.	<i>Surveying Daily Total: 0 kms</i> <i>Dozing Daily Total: 0 kms</i>
Jan 19	Standby in morning (6.25 hrs) until ground dried out.	<i>Surveying Daily Total: 21.36 kms</i> <i>Dozing Daily Total: 32.12 kms</i>
Jan 20	Heavy rain in the afternoon.	<i>Surveying Daily Total: 49.32 kms</i> <i>Dozing Daily Total: 50.28 kms</i>
Jan 21	Standby (10 hrs) all day due to overnight rain.	<i>Surveying Daily Total: 0 kms</i> <i>Dozing Daily Total: 0 kms</i>
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.	<i>Surveying Daily Total: 42.08 kms</i> <i>Dozing Daily Total: 78.12 kms</i>
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.	<i>Surveying Daily Total: 38.83 kms</i> <i>Dozing Daily Total: 53.60 kms</i>
Jan 24	D8 down (1.5 hrs) for airconditioner repairs. Sand dunes made for slow progress.	<i>Surveying Daily Total: 40.92 kms</i> <i>Dozing Daily Total: 48.32 kms</i>

Date	Survey Operations	
Jan 25	Rob left for Moomba for crew rotation.	<i>Surveying Daily Total: 39.88 kms</i> <i>Dozing Daily Total: 64.68 kms</i>
Jan 26	Denis Williams and Brendan Irwin in late morning. National Jet delayed from yesterday due to plane trouble. Denis training Brendan in afternoon.	<i>Surveying Daily Total: 48.84 kms</i> <i>Dozing Daily Total: 46.04 kms</i>
Jan 27	Denis training Brendan and John.	<i>Surveying Daily Total: 57.52 kms</i> <i>Dozing Daily Total: 47.88 kms</i>
Jan 28	Evening safety meeting. D8 down for hose repairs (3hrs). Cat grader sown for repairs.	<i>Surveying Daily Total: 53.60 kms</i> <i>Dozing Daily Total: 69.40 kms</i>
Jan 29	D6 down for airconditioner repairs (1hr). Cat grader still down for repairs.	<i>Surveying Daily Total: 59.28 kms</i> <i>Dozing Daily Total: 43.08 kms</i>
Jan 30	D8 down for airconditioner repairs (2hrs).	<i>Surveying Daily Total: 53.76 kms</i> <i>Dozing Daily Total: 45.64 kms</i>
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.	<i>Surveying Daily Total: 52.00 kms</i> <i>Dozing Daily Total: 21.16 kms</i>
Feb 01	Evening toolbox meeting.	<i>Surveying Daily Total: 58.60 kms</i> <i>Dozing Daily Total: 37.96 kms</i>

Date	Survey Operations	
Feb 02	John and Denis drove to Moomba. John out on break, replaced by Steve. Steve completed Moomba Induction.	<i>Surveying Daily Total: 52.08 kms</i> <i>Dozing Daily Total: 46.20 kms</i>
Feb 03	D8 down for service.	<i>Surveying Daily Total: 61.48 kms</i> <i>Dozing Daily Total: 42.68 kms</i>
Feb 04	Evening tool box and safety meeting. Cat Grader down for flat tyres. D5 down for full service and steering fault.	<i>Surveying Daily Total: 48.72 kms</i> <i>Dozing Daily Total: 24.68 kms</i>
Feb 05	Denis demobilised. D5 down with mechanical problems.	<i>Surveying Daily Total: 53.52 kms</i> <i>Dozing Daily Total: 43.88 kms</i>
Feb 06	All dozers had breakdowns today. JD Grader down for repairs.	<i>Surveying Daily Total: 38.60 kms</i> <i>Dozing Daily Total: 27.04 kms</i>
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.	<i>Surveying Daily Total: 6.32 kms</i> <i>Dozing Daily Total: 42.36 kms</i>
Feb 08	D5 and D6 down all day.	<i>Surveying Daily Total: 35.20 kms</i> <i>Dozing Daily Total: 36.32 kms</i>

Date	Survey Operations	
Feb 09	D5 and D6 down for repairs.	<i>Surveying Daily Total: 37.64 kms</i> <i>Dozing Daily Total: 23.28 kms</i>
Feb 10	More backpacking in salt lakes. D5 still down for repairs.	<i>Surveying Daily Total: 36.16 kms</i> <i>Dozing Daily Total: 36.24 kms</i>
Feb 11	D5 still down, D6 down for parts change-out with D5. Evening toolbox and safety meeting.	<i>Surveying Daily Total: 42.68 kms</i> <i>Dozing Daily Total: 30.20 kms</i>
Feb 12	D5 still down.	<i>Surveying Daily Total: 48.76 kms</i> <i>Dozing Daily Total: 51.08 kms</i>
Feb 13	D5 loaded onto float for transport to Adelaide tomorrow.	<i>Surveying Daily Total: 45.16 kms</i> <i>Dozing Daily Total: 53.52 kms</i>
Feb 14	One flat tyre for Cat Grader.	<i>Surveying Daily Total: 44.12 kms</i> <i>Dozing Daily Total: 39.20 kms</i>
Feb 15	Evening toolbox meeting.	<i>Surveying Daily Total: 47.64 kms</i> <i>Dozing Daily Total: 43.04 kms</i>
Feb 16	D6 down for service. Brendan travelled out - replaced by John Dilger and Dave Nielsen.	<i>Surveying Daily Total: 71.20 kms</i> <i>Dozing Daily Total: 35.28 kms</i>

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.	<i>Surveying Daily Total: 47.88 kms</i> <i>Dozing Daily Total: 46.80 kms</i>
Feb 18	Evening toolbox and safety meeting. D7 recutting vibe accesses in Panel 3.	<i>Surveying Daily Total: 60.52 kms</i> <i>Dozing Daily Total: 30.88 kms</i>
Feb 19	Ben demobilised. D8 cutting vibe access in Panel 3. Down for mechanical repairs (1 hr).	<i>Surveying Daily Total: 40.48 kms</i> <i>Dozing Daily Total: 22.04 kms</i>
Feb 20	D8 recutting vibe accesses in Panel 3.	<i>Surveying Daily Total: 46.00 kms</i> <i>Dozing Daily Total: 16.88 kms</i>
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.	<i>Surveying Daily Total: 11.28 kms</i> <i>Dozing Daily Total: 17.80 kms</i>
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.	<i>Surveying Daily Total: 0 kms</i> <i>Dozing Daily Total: 13.08 kms</i>
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.	<i>Surveying Daily Total: 0 kms</i> <i>Dozing Daily Total: 8.48 kms</i>

Date	Survey Operations	
Feb 24	No survey - insufficient lead - standby all day. Steve demobilised to Yeppoon.	<i>Surveying Daily Total: 0 kms</i> <i>Dozing Daily Total: 26.68 kms</i>
Feb 25	Survey crew now Dave and John. D6 had steering problems. D8 recutting dunes where necessary for vibe access.	<i>Surveying Daily Total: 18.64 kms</i> <i>Dozing Daily Total: 36.88 kms</i>
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.	<i>Surveying Daily Total: 23.52 kms</i> <i>Dozing Daily Total: 27.68 kms</i>
Feb 27	D6 down to steering problems. D8 recutting dunes.	<i>Surveying Daily Total: 27.32 kms</i> <i>Dozing Daily Total: 18.76 kms</i>
Feb 28	Cat Grader on standby - caught dozers. D6 down for 2.5 hours - bleeding hydraulic pump. D8 recutting dunes as necessary.	<i>Surveying Daily Total: 24.80 kms</i> <i>Dozing Daily Total: 26.40 kms</i>
Mar 01	Graders tidying up old lines D6 overheating and steering problems.	<i>Surveying Daily Total: 17.92 kms</i> <i>Dozing Daily Total: 28.36 kms</i>
Mar 02	D6 overheating and steering problems.	<i>Surveying Daily Total: 11.72 kms</i> <i>Dozing Daily Total: 31.32 kms</i>

Date	Survey Operations	
Mar 03	Dean Hausmann mobilises to crew. D6 had hydraulic leaks and new part change-over.	<i>Surveying Daily Total: 28.24 kms</i> <i>Dozing Daily Total: 30.92 kms</i>
Mar 04	D6 - severe overheating and hydraulic problems.	<i>Surveying Daily Total: 48.16 kms</i> <i>Dozing Daily Total: 24.72 kms</i>
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.	<i>Surveying Daily Total: 24.72 kms</i> <i>Dozing Daily Total: 13.96 kms</i>
Mar 06	D6 worked on.	<i>Surveying Daily Total: 34.84 kms</i> <i>Dozing Daily Total: 29.04 kms</i>
Mar 07	Camp move - took all day with two surveyors. D6 - two hours stand down.	<i>Surveying Daily Total: 8.96 kms</i> <i>Dozing Daily Total: 19.24 kms</i>
Mar 08	Graders working on lines and cleaning up new camp site.	<i>Surveying Daily Total: 42.40 kms</i> <i>Dozing Daily Total: 35.88 kms</i>
Mar 09	John demobilised - replace by Hamish McKenzie. Dozers slow going - in big dunes.	<i>Surveying Daily Total: 30.24 kms</i> <i>Dozing Daily Total: 21.08 kms</i>
Mar 10	Big dunes slowed dozer production.	<i>Surveying Daily Total: 30.96 kms</i> <i>Dozing Daily Total: 17.44 kms</i>

Date	Survey Operations	
Mar 11	Evening toolbox meeting.	<i>Surveying Daily Total: 32.24 kms</i> <i>Dozing Daily Total: 54.56 kms</i>
Mar 12	D6 re-cut access to new camp.	<i>Surveying Daily Total: 44.08 kms</i> <i>Dozing Daily Total: 32.48 kms</i>
Mar 13	Big dunes all day.	<i>Surveying Daily Total: 51.76 kms</i> <i>Dozing Daily Total: 29.12 kms</i>
Mar 14	Hamish demobilised. D6 fixed and ready. D8 had mechanical failure early morning.	<i>Surveying Daily Total: 22.00 kms</i> <i>Dozing Daily Total: 24.32 kms</i>
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.	<i>Surveying Daily Total: 19.60 kms</i> <i>Dozing Daily Total: 34.96 kms</i>
Mar 16	Slow work in big dunes. Patchy light rain but won't affect work.	<i>Surveying Daily Total: 42.88 kms</i> <i>Dozing Daily Total: 29.60 kms</i>
Mar 17	Evening toolbox meeting	<i>Surveying Daily Total: 46.52 kms</i> <i>Dozing Daily Total: 43.28 kms</i>
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.	<i>Surveying Daily Total: 43.52 kms</i> <i>Dozing Daily Total: 35.12 kms</i>

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.

Table of Contents

Introduction	3
Acquisition Parameters	3
Processing Parameters	6
Testing	17
Archiving	18
Appendix 1 Software and Hardware Configuration	19
Appendix 2 3D CRS Noise Attenuation	20
Appendix 3 Processing Flow Charts	21
Figure 1. Source Receiver Layout	5
Figure 2. CDP Fold Plot of Merged 3D Grid	7
Figure 3. CDP Fold plot for Merged 3D Grid Raven 3D	8
Figure 4. CRS Comparison	20

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 msec
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.

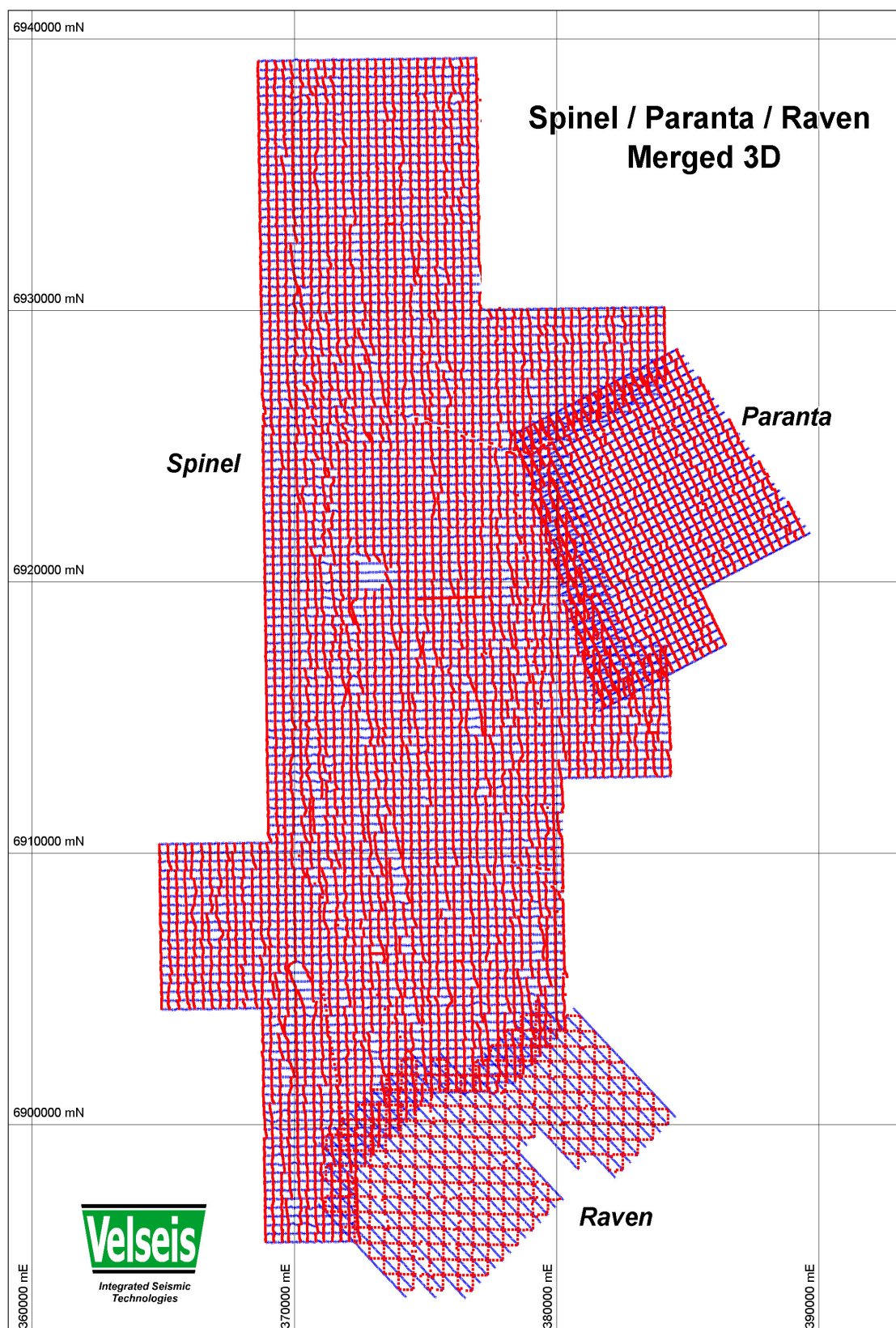


Figure 1 – Source Receiver Layout Merged Surveys

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

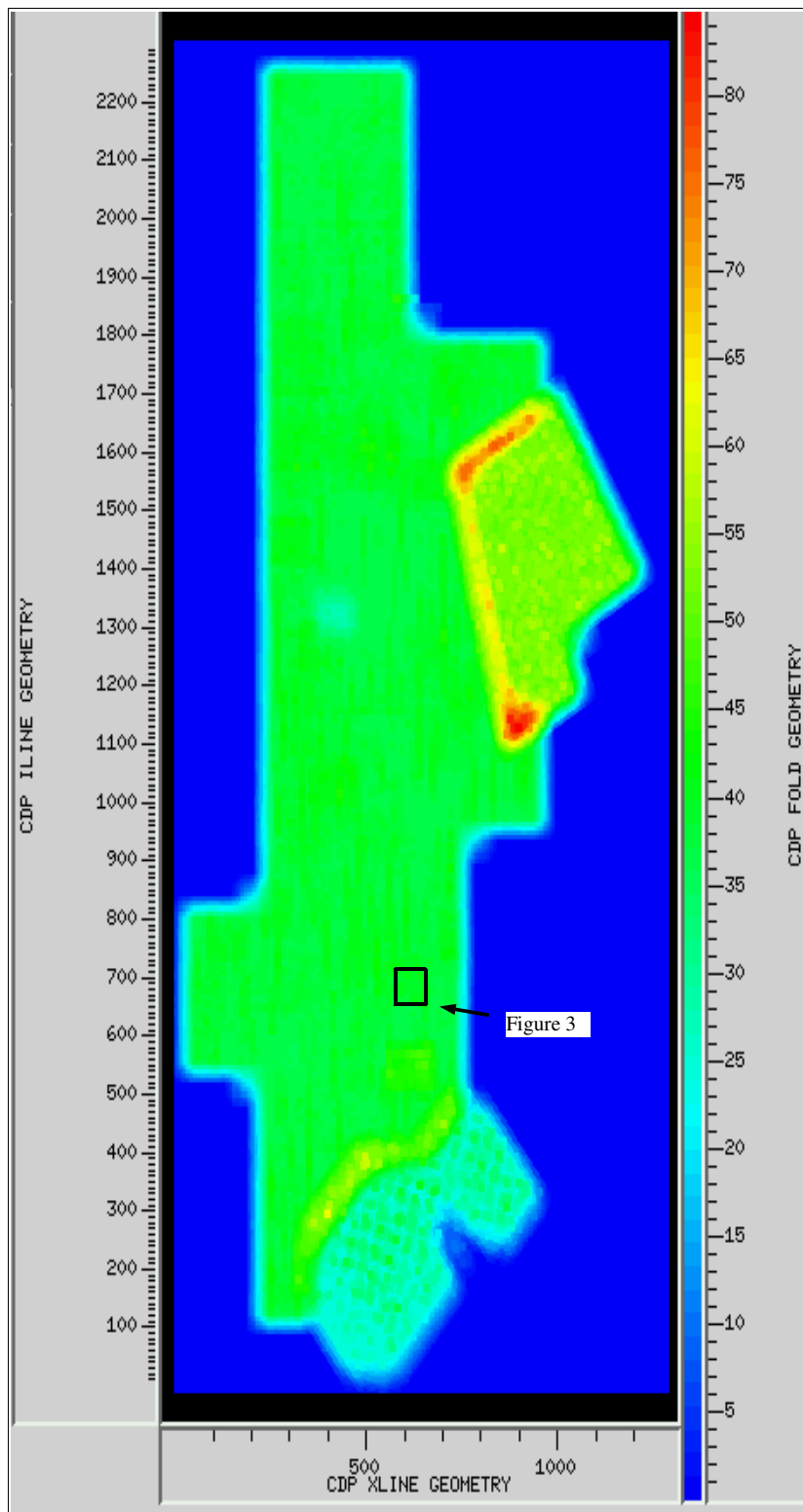


Figure 2 – CDP Fold Plot for Merged 3D Grid

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.

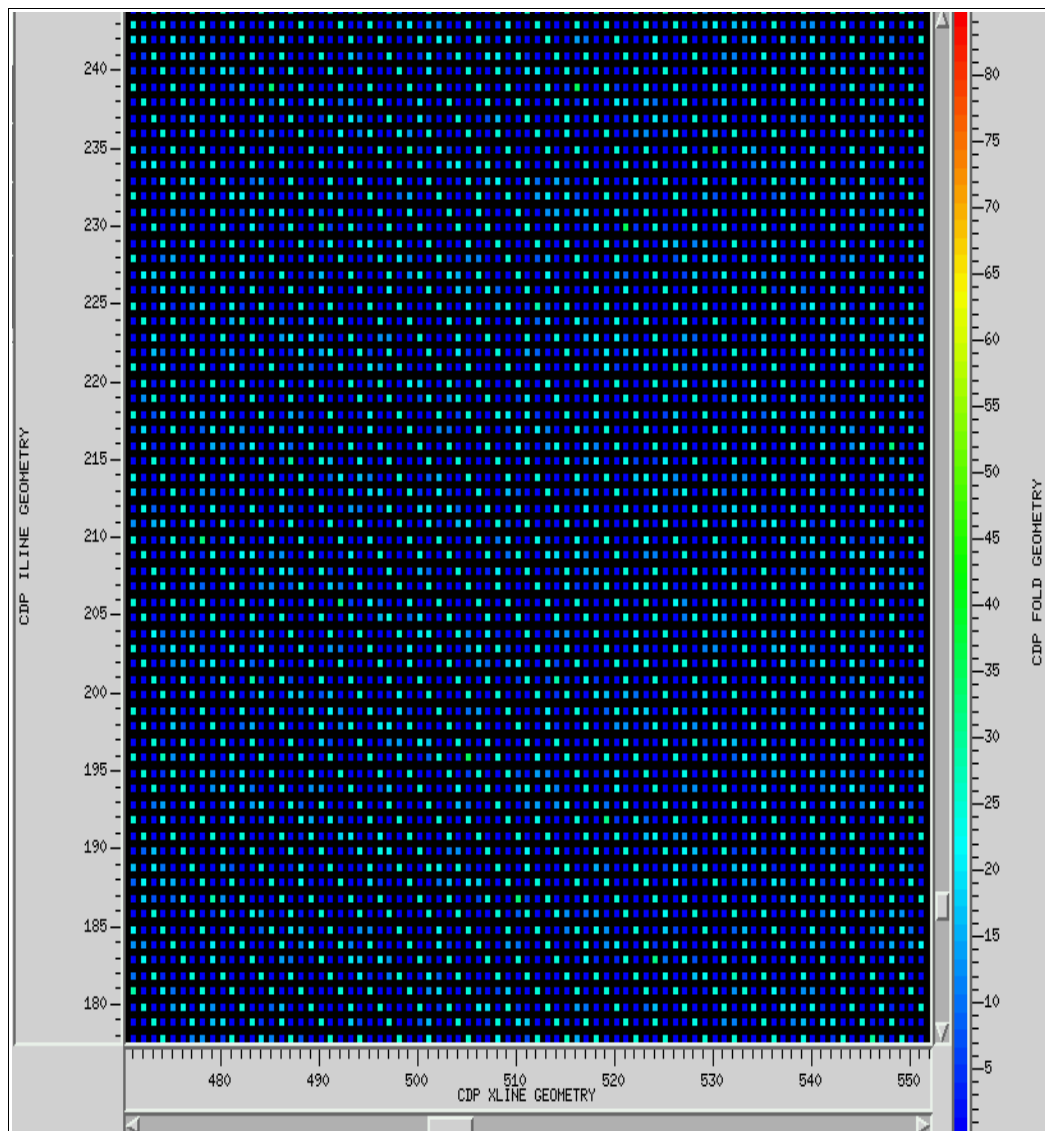


Figure 3– CDP Fold Plot for Merged 3D Grid over a part of the Raven 3D

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.

$$\text{Gain} = t^{1.5} \quad t = \text{time}$$

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) SEG Y 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.

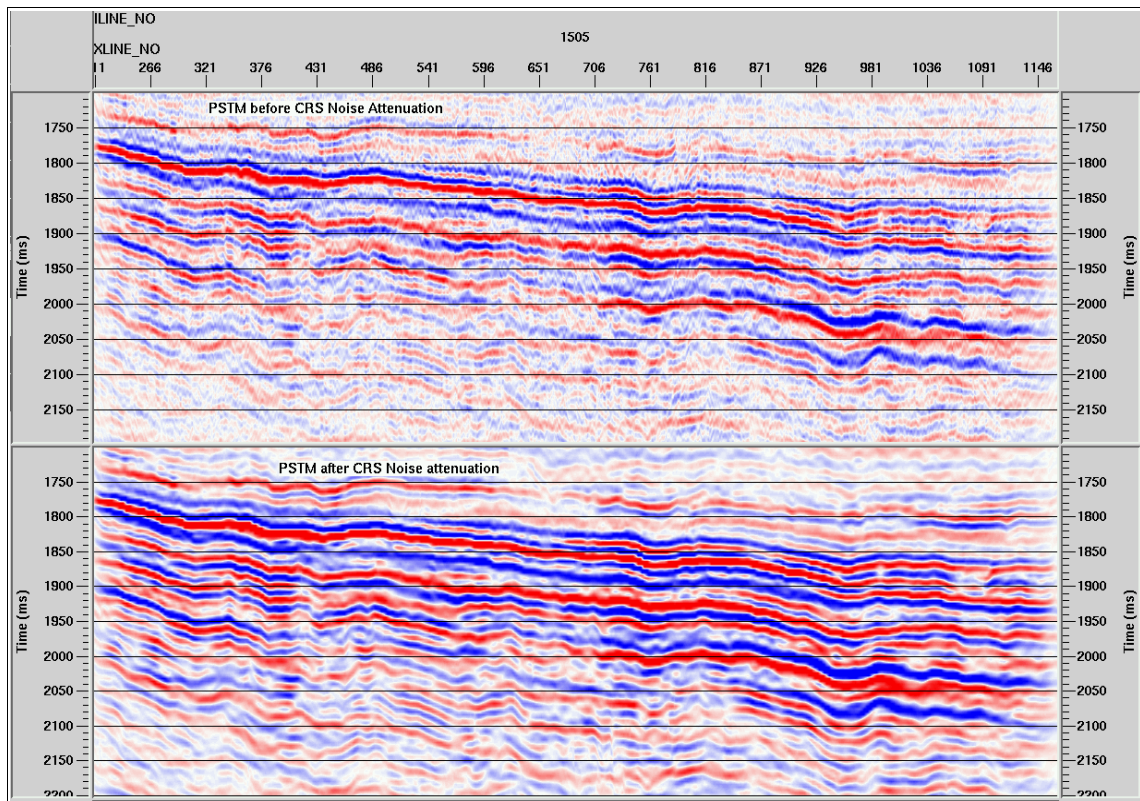
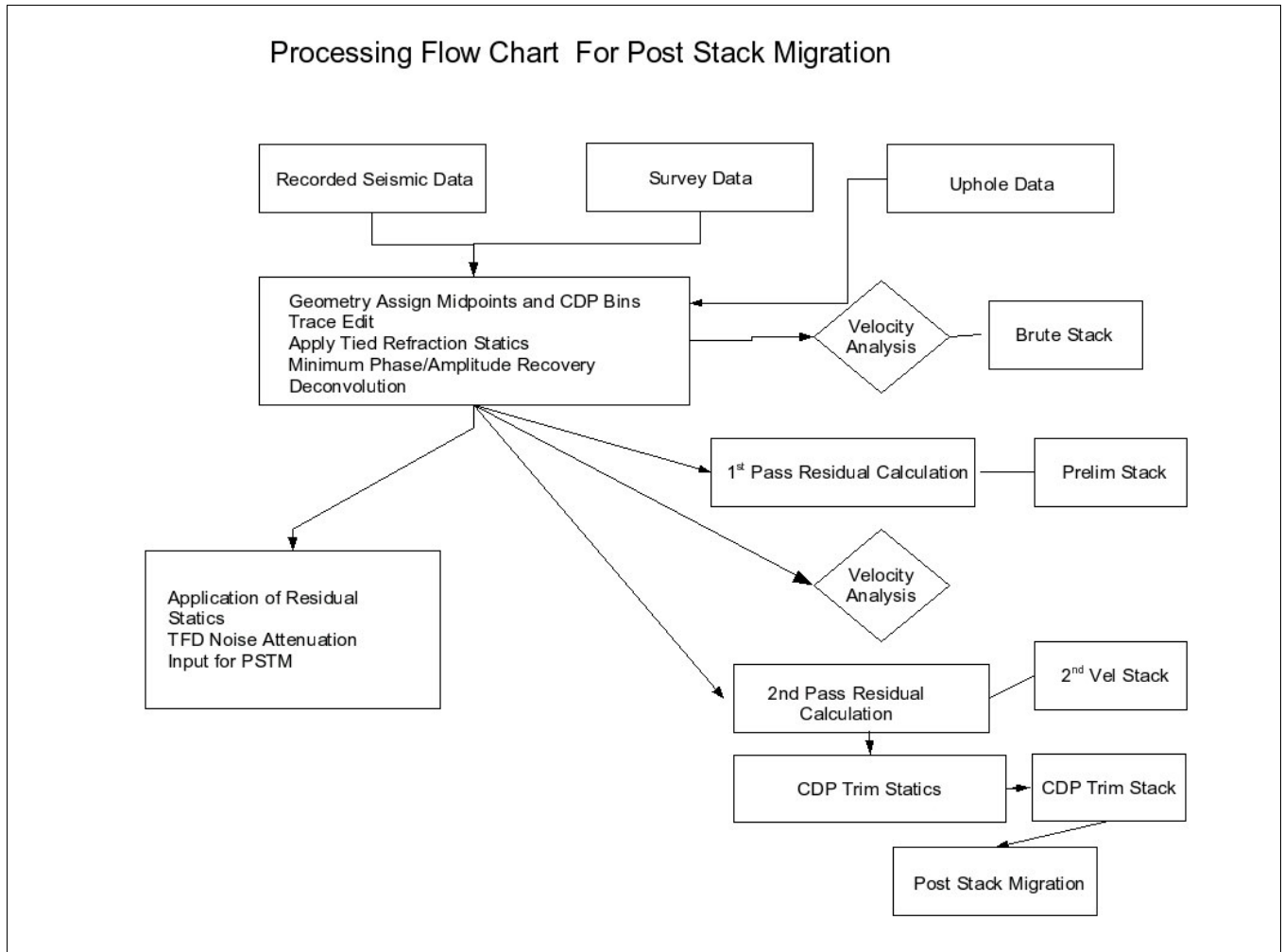


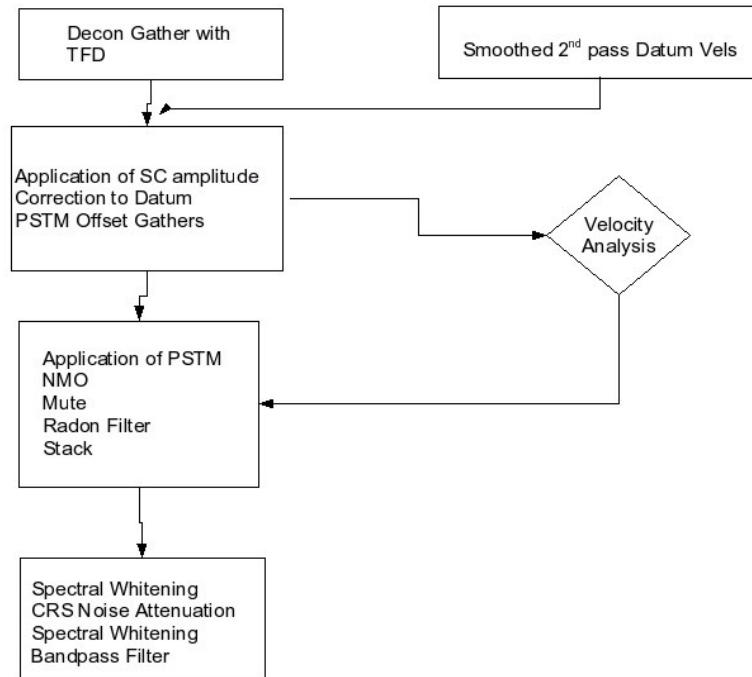
Figure 4– CRS Comparison

Appendix 3

3D Processing Flow Charts



Processing Flow Chart For Pre Stack Time Migration





Uphole Survey Report
on the
Spinel 3D (PEL106) Seismic Survey
for
GAOG

March 2007

Table of Contents

Introduction	1
Personnel and Equipment	1
Data Acquisition	1
Appendices	3
A: Location and Weathering	
B: Uphole Plots (Removed - Data Kept Separately)	

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

2007 Spinel 3D (PEL106) Seismic Survey - Uphole Program

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

2007 Spinel 3D (PEL106) Seismic Survey - Uphole Program

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