

I-205 2006/07 South Pole Source - Receiver Information

Shot Information

Only the explosive source information is listed here. The hammer blows are not listed as the timing of each event can only be determined to the nearest minute UTC time in the field, and therefore were not always seen by the Texans during their deployment.

Table 1: South Pole Shot Information

UTC Date	UTC Time	Flag	Location	Depth	Size	Info	Latitude	Longitude	Elevation	Notes
23 DEC 2006	04:58	F41	720m	11m	3xP	Open Hole	89.8681	157.7821	2844.0m	Only Detonator detonated
23 DEC 2006	05:06	F41	720m	11m	P	Open Hole	89.8681	157.7821	2844.0m	
23 DEC 2006	05:18	F41	720m	11m	3xP	Backfilled	89.8681	157.7821	2844.0m	
23 DEC 2006	05:56	F40	960m	7.3m	10xP	Backfilled	89.8682	156.8458	2843.3m	Stem blow out
23 DEC 2006	06:32	F39	1200m	12.7m	10xP	Backfilled	89.8683	155.9079	2842.8m	
26 DEC 2006	06:00	F38	1440m	28.9m	10xP	Stemmed	89.8684	154.9688	2842.6m	
26 DEC 2006	06:26	F32	2880m	30.0m	10xP	Backfilled	89.8680	149.3385	2842.0m	
26 DEC 2006	06:56	F26	4320m	30.4m	10xP	Backfilled	89.8664	143.7924	2843.6m	
26 DEC 2006	21:36	F37	1680m	27.0m	10xP	Stemmed	89.8684	154.0291	2842.4m	
26 DEC 2006	22:08	F36	1920m	26.0m	10xP	Stemmed	89.8684	153.0892	2842.2m	
26 DEC 2006	22:28	F35	2160m	24.3m	10xP	Stemmed	89.8684	152.1497	2842.0m	
26 DEC 2006	22:42	F34	2400m	24.5m	10xP	Stemmed	89.8683	151.2111	2842.0m	
26 DEC 2006	23:04	F33	2640m	28.5m	10xP	Backfilled	89.8682	150.2738	2842.0m	
26 DEC 2006	23:14	F32	2880m	20.9m	10xP	Backfilled	89.8680	149.3385	2842.0m	
26 DEC 2006	23:26	F31	3120m	30.7m	10xP	Backfilled	89.8678	148.4055	2842.1m	
26 DEC 2006	23:32	F30	3360m	30?m	10xP	Backfilled	89.8676	147.4753	2842.2m	
26 DEC 2006	23:44	F29	3600m	28.4m	10xP	Backfilled	89.8674	146.5484	2842.3m	
26 DEC 2006	23:54	F28	3840m	27.7m	10xP	Backfilled	89.8671	145.6254	2842.5m	
27 DEC 2006	00:04	F27	4080m	27.9m	10xP	Backfilled	89.8668	144.7065	2843.1m	Stem Blow Out
27 DEC 2006	00:56	F26	4320m	14.4m	10xP	Backfilled	89.8664	143.7924	2843.6m	
30 DEC 2006	02:22	F31	3120m	26.0m	10xP	Stemmed	89.8678	148.4055	2842.1m	
30 DEC 2006	02:38	F29	3600m	24.6m	10xP	Stemmed	89.8674	146.5484	2842.3m	
30 DEC 2006	03:10	F28	3840m	24.5m	10xP	Stemmed	89.8671	145.6254	2842.5m	
30 DEC 2006	03:30	F26	4320m	14.4m	10xP	Stemmed	89.8664	143.7924	2843.6m	
30 DEC 2006	03:42	F25	4560m	27.4m	10xP	Stemmed	89.8660	142.8833	2844.1m	
30 DEC 2006	03:56	F23	5040m	21.7m	10xP	Stemmed	89.8651	141.0821	2845.6m	
30 DEC 2006	04:08	F21	5520m	23.1m	10xP	Stemmed	89.8641	139.3061	2848.7m	
30 DEC 2006	04:20	F19	6000m	23.6m	10xP	Stemmed	89.8630	137.5580	2850.0m	
30 DEC 2006	04:32	F17	6480m	24.4m	10xP	Stemmed	89.8617	135.8404	2850.8m	
31 DEC 2006	04:34	F34-30m	2430m	0.5m	H	Backfilled			Not Surveyed	
31 DEC 2006	04:40	F34-90m	2490m	0.5m	H	Backfilled			Not Surveyed	

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Table 1: SP Shot Information — Continued

UTC Date	UTC Time	Flag	Location	Depth	Size	Info	Latitude	Longitude	Elevation	Notes
31 DEC 2006	04:46	F33-5m	2645m	0.5m	H	Backfilled				Not Surveyed
31 DEC 2006	04:50	F33-10m	2650m	0.5m	H	Backfilled				Not Surveyed
31 DEC 2006	04:56	F32	2880m	0.5m	H	Backfilled	89.8680	149.3385	2842.0m	
31 DEC 2006	05:02	F31	3120m	0.5m	H	Backfilled	89.8678	148.4055	2842.1m	
31 DEC 2006	05:10	F30	3360m	0.5m	H	Backfilled	89.8676	147.4753	2842.2m	
31 DEC 2006	20:50	F34-120m	2520m	0.5m	H	Backfilled				Not Surveyed
31 DEC 2006	20:56	F33+10m	2630m	0.5m	H	Backfilled				Not Surveyed
31 DEC 2006	20:58	F33+5m	2635m	0.5m	H	Backfilled				Not Surveyed
31 DEC 2006	21:04	F32+5m	2875m	0.5m	H	Backfilled				Not Surveyed
31 DEC 2006	21:10	F31+5m	3115m	0.5m	H	Backfilled				Not Surveyed
31 DEC 2006	21:16	F30+5m	3355m	0.5m	H	Backfilled				Not Surveyed
31 DEC 2006	21:24	F29+5m	3595m	0.5m	H	Backfilled				Not Surveyed
31 DEC 2006	22:10	F15	6960m	26.0m	10xP		89.8603	134.1554	2850.9m	
31 DEC 2006	22:22	F13	7440m	29.1m	10xP		89.8588	132.5050	2849.9m	
31 DEC 2006	22:34	F11	7920m	23.6m	10xP		89.8572	130.8909	2848.4m	
31 DEC 2006	22:44	F9	8400m	24.0m	10xP		89.8555	129.3141	2846.4m	
01 JAN 2007	00:06	F28	3840m	13.0m	P	Open Hole	89.8671	145.6254	2842.5m	
01 JAN 2007	00:24	F28	3840m	13.0m	P	Backfilled	89.8671	145.6254	2842.5m	

H = 175g PETN

P = 400g PETN

Vertical Geophone Array

Table 2: South Pole Vertical Geophone Array Information

Geophone Number	Geophone Location	Latitude	Longitude	Elevation
0	0m	89.8677	160.4014	2844.9m
8	240m	89.8678	159.5125	2844.4m
16	480m	89.8680	158.6236	2844.0m
24	720m	89.8681	157.7821	2844.0m
32	960m	89.8682	156.8458	2843.3m
40	1200m	89.8683	155.9079	2842.8m
48	1440m	89.8684	154.9688	2842.6m

The individual location of each geophone deployed was not surveyed in by GPS. The line was surveyed in at 240m intervals, hence providing GPS information on every 8th geophone in the array. The receiver array was deployed at 30m intervals, between 30m and 1440m.

Horizontal Geophone Array

Table 3: **South Pole Horizontal Geophone Array Information**

Geophone Number	Geophone Location	Latitude	Longitude	Elevation
0	2160m	89.8684	152.1497	2842.0m
24	2400m	89.8683	151.2111	2842.0m

The individual location of each geophone deployed was not surveyed in by GPS. Only locations 2160m and 2400m were surveyed. The receiver array was deployed at 10m intervals, between 2170m and 2400m.

TEXAN Information

Table 4: **South Pole Texan Deployment — Configuration 1**

Texan SN	Texan Flag	Line Location	Latitude	Longitude	Elevation
1523	F1	10360m	89.8475	123.3984	2836.3m
1549	F2	10080m	89.8486	124.1030	2837.5m
1552	F3	9840m	89.8496	124.8177	2838.9m
1554	F4	9600m	89.8507	125.5423	2840.2m
1933	F5	9340m	89.8517	126.2769	2841.4m
1946	F6	9120m	89.8527	127.0215	2842.7m
2145	F7	8880m	89.8536	127.7759	2843.9m
2270	F8	8640m	89.8546	128.5402	2845.1m
2274	F9	8400m	89.8555	129.3141	2846.4m
2275	F10	8160m	89.8563	130.0977	2847.3m
2276	F11	7920m	89.8572	130.8909	2848.4m
2279	F12	7680m	89.8580	131.6933	2849.2m
2282	F13	7440m	89.8588	132.5050	2849.9m
2284	F14	7200m	89.8596	133.3258	2850.6m
2285	F15	6960m	89.8603	134.1554	2850.9m
2286	F16	6720m	89.8610	134.9937	2851.1m
2287	F17	6480m	89.8617	135.8404	2850.8m
2288	F18	6240m	89.8624	136.6952	2850.5m
2292	F19	6000m	89.8630	137.5580	2850.0m
2293	F20	5760m	89.8636	138.4284	2849.5m
2296	F21	5520m	89.8641	139.3061	2848.7m
2298	F22	5280m	89.8646	140.1908	2847.6m
2300	F23	5040m	89.8651	141.0821	2845.6m
2303	F24	4800m	89.8656	141.9798	2844.9m
2308	F25	4560m	89.8660	142.8833	2844.1m
2309	F26	4320m	89.8664	143.7924	2843.6m

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Table 4: **Texan Configuration 1 — Continued**

Texan SN	Texan Flag	Line Location	Latitude	Longitude	Elevation
2312	F27	4080m	89.8668	144.7065	2843.1m
2313	F28	3840m	89.8671	145.6254	2842.5m
2314	F29	3600m	89.8674	146.5484	2842.3m
2317	F30	3360m	89.8676	147.4753	2842.2m
2320	F31	3120m	89.8678	148.4055	2842.1m
2321	F32	2880m	89.8680	149.3385	2842.0m
2327	F33	2640m	89.8682	150.2738	2842.0m
2340	F34	2400m	89.8683	151.2111	2842.0m
2346	F35	2160m	89.8684	152.1497	2842.0m
2351	F36	1920m	89.8684	153.0892	2842.2m
2352	F37	1680m	89.8684	154.0291	2842.4m
2358	F38	1440m	89.8684	154.9688	2842.6m
2361	F39	1200m	89.8683	155.9079	2842.8m
2363	F40	960m	89.8682	156.8458	2843.3m
2365	F41	720m	89.8681	157.7821	2844.0m

Deployed 20 DEC 2006

Retrieved 27 DEC 2006

The Texans were configured as follows: Each Texan recorded at 1000 samples/sec for 17 sec, starting 2 sec before the minute (ie, 00:59:58, with the source detonating at 00:01:00).

Table 5: **South Pole Texan Deployment — Configuration 2**

Texan SN	Texan Flag	Line Location	Latitude	Longitude	Elevation
1523	F15-60m	7020m	89.8601	133.9480	2850.9m
1549	F15	6960m	89.8603	134.1554	2850.9m
1552	F15+60m	6900m	89.8605	134.3250	2850.9m
1554	F15+120m	6840m	89.8606	134.5346	2850.9m
1933	F15+180m	6780m	89.8608	134.7442	2850.9m
1946	F16	6720m	89.8610	134.9937	2851.1m
2145	F16+60m	6660m	89.8612	135.2054	2850.9m
2270	F16+120m	6600m	89.8614	135.4174	2850.9m
2274	F16+180m	6540m	89.8615	135.6288	2851.0m
2275	F17	6480m	89.8617	135.8404	2850.8m
2276	F17+60m	6420m	89.8619	136.0541	2850.8m
2279	F17+120m	6360m	89.8621	136.2678	2850.8m
2282	F17+180m	6300m	89.8622	136.4815	2850.7m

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Table 5: Texan Configuration 2 — Continued

Texan SN	Texan Flag	Line Location	Latitude	Longitude	Elevation
2284	F18	6240m	89.8624	136.6952	2850.5m
2285	F18+60m	6180m	89.8626	136.9109	2850.5m
2286	F18+120m	6120m	89.8627	137.1266	2850.2m
2287	F18+180m	6060m	89.8629	137.3423	2850.2m
2288	F19	6000m	89.8630	137.5580	2850.0m
2292	F19+60m	5940m	89.8632	137.7756	2849.9m
2293	F19+120m	5880m	89.8633	137.9932	2849.7m
2296	F19+180m	5820m	89.8635	138.2108	2849.6m
2298	F20	5760m	89.8636	138.4284	2849.5m
2300	F20+60m	5700m	89.8637	138.6478	2849.2m
2303	F20+120m	5640m	89.8639	138.8672	2849.1m
2308	F20+180m	5580m	89.8640	139.0866	2848.9m
2309	F21	5520m	89.8641	139.3061	2848.7m
2312	F21+60m	5460m	89.8642	139.5273	2848.3m
2313	F21+120m	5400m	89.8644	139.7485	2848.0m
2314	F21+180m	5340m	89.8645	139.9697	2847.7m
2317	F22	5280m	89.8646	140.1908	2847.6m
2320	F22+60m	5220m	89.8647	140.5273	2847.4m
2321	F22+120m	5160m	89.8649	140.7485	2847.2m
2327	F22+180m	5100m	89.8650	140.9697	2845.6m
2340	F23	5040m	89.8651	141.0821	2845.6m
2346	F23+60m	4980m	89.8652	141.3065	2845.4m
2351	F23+120m	4920m	89.8654	141.5309	2845.2m
2352	F23+180m	4860m	89.8655	141.7553	2845.0m
2358	F24	4800m	89.8656	141.9798	2844.9m
2361	F24+60m	4740m	89.8657	142.2057	2844.6m
2363	F24+120m	4680m	89.8658	142.4316	2844.5m
2365	F24+180m	4620m	89.8659	142.6575	2844.3m
2368	F25	4560m	89.8660	142.8833	2844.1m
2373	F25+60m	4500m	89.8661	143.1106	2844.0m

Deployed 30 DEC 2006

Retrieved 1 JAN 2007

The Texans were configured as follows: Each Texan recorded at 1000 samples/sec for 17 sec, starting 2 sec before the minute (ie, 00:59:58, with the source detonating at 00:01:00).