

Observers Log

Vessel	Langseth
Client	Taiger 2
Area	Taiwan Straights etc.
Job Number	MGL0906

Party Chief	AJ
Ch. Observer	
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	N/A	N/A	FGSP	929
SP #	N/A	N/A	LGSP	1560

Line	MGL0906_01
Sequence	001
Direction	352

Streamer Parameters				
	1	2	3	4
Length	N/A			
Auxiliaries	N/A			
Shotpoint Interval:	150m			
Offset CS - CFG	N/A			
Group Interval:	N/A			
Number of channels	N/A			
SOL Cable Noise, µB	N/A			
EOL Cable Noise, µB	N/A			

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	N/A
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	05/05/09	06/05/09
Time UTC	17:51	07:56
Volume (cu in.)	6600	4950
Streamer Depth (m)	N/A	
Wind (kts)	12	15-18
Sea State (ft)	3	4-7
Water Depth (m)	3245	3059

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments						
SOL 17:51 FSP 927 FGSP 929 LAT 20°19'42.938 N LONG 119°34'12.868 W						
Client request slower speed for 75 seconds between shots 150m spacing to allow OBS crew more time for deployment.						
S2G2 gain set to 3 (from 2) at SOL to get partially muted return to register as a shot.						
See archive: docs/screenshots/MGL0906_2009-05-05_Digishot_1						
OBS crossing SP 1001 OBS_T3_22						
Turned gun S2G06 to SPARE due to no fire conditions @SP 1071 New volume 6510 in3						
Turned gun S2G07 to spare due to no fire condition @SP 1081 turned on S2G05 new volume 6570 in3						
OBS crossing SP1101 OBS_T3_21						
OBS crossing SP1200 OBS_T3_20						
OBS crossing SP1300 OBS_T3_19						
Turned off S2G2 due to 20 no fires @07:15 @ 07:21 String 2 off.						
07:30 Starting turn ending line to repair guns turn to port @ 3 deg/min.						
EOL 20 40 37.461n 119 30 18.241e						

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
17:48	N/A	927	N/A	DELTA TIMING S1G02 2.7 ms S3G02 -2.4ms
17:49		928		S2G03 NO FIRE
17:57		933		S2G06 NO FIRE
18:03		937		S2G06 NO FIRE
18:06		939		S2G06 NO FIRE
18:08		940		S2G03 NO FIRE S3G02 DELTA TIMING -2.1ms
18:10		942		S2G06 NO FIRE
18:11		943		S2G06 NO FIRE
18:13		944		S2G06 NO FIRE
18:16		947		S2G06 NO FIRE
18:25		954		S2G06 NO FIRE
18:27		956		S2G06 NO FIRE
18:30		958		S3G01 DELTA TIMING 2.7ms
18:31		959		S2G06 NO FIRE
18:38		965		S2G06 NO FIRE
18:46		972		S2G06 NO FIRE
18:47		973		S2G06 NO FIRE/S3G02 DELTA -2.7ms
18:53		978		S2G03 NO FIRE
18:57		981		S2G06 NO FIRE
18:58		982		S2G06 NO FIRE
18:59		983		S1G02 DELTA TIMING 2.1ms
19:02		985		S2G02 DELTA TIMING -2.1ms
19:04		986		S2G03 NO FIRE/S2G06 NO FIRE
19:05		987		S2G06 NO FIRE
19:09		990		S1G02DELTA TIMING 2.5ms
19:10		991		S2G06 NO FIRE
19:11		992		S2G03 NO FIRE
19:13		994		S3G02 DELTA TIMING -2.9ms
19:14		995		S2G06 NO FIRE
19:17		997		S1G02 DELTA TIMING 2.1ms
19:18		998		S2G06 NO FIRE
19:21		1000		S3G02 DELTA TIMING 2.7ms
19:25		1004		S2G03 NO FIRE
19:30		1007		S1G02 DELTA TIMING 2.2ms/S2G06 NO FIRE
19:31		1008		S2G06 NO FIRE
19:34		1010		S2G03 NO FIRE/ S2G06 NO FIRE
19:35		1011		S3G02 DELTA -3.6ms
19:37		1013		S1G02 DELTA -2.1 ms
19:39		1014		S2G06 NO FIRE
19:40		1015		S1G02 DELTA 2.1MS
19:41		1016		S1G02 DELTA -2.1 ms
19:44		1018		S2G03/S2G06/S2G07 NO FIRE
19:46		1019		S3G02 DELTA -2.4ms
19:47		1020		S2G06 NO FIRE
19:50		1022		S2G06 NO FIRE
19:51		1023		S2G06 NO FIRE
19:56		1027		S2G06 NO FIRE
19:57		1028		S2G06 NO FIRE
20:14		1040		S2G06 NO FIRE

20:15		1041	S2G06 NO FIRE
20:16		1042	S2G03 NO FIRE/S2G06 NO FIRE
20:24		1048	S2G06 NO FIRE
20:30		1052	S2G03 NO FIRE/S2G06 NO FIRE
20:35		1056	S3G02 DELT 2.4ms
20:38		1058	S2G03 NO FIRE/S2G06 NO FIRE
20:40		1059	S2G03 DELTA -2.3ms
20:41		1060	S1G02 DELTA 2.1ms/S2G06 NO FIRE
20:49		1066	S2G03 NO FIRE/S2G06 NO FIRE/S3G02 DELTA 2.1ms
20:52		1068	S1G02 DELTA -2.1ms
20:55		1070	S2G06 NO FIRE
21:06		1078	S2G03 NO FIRE
21:08		1079	S2G07 NO FIRE
21:09		1080	S2G07 NO FIRE
21:11		1081	S2G07 NO FIRE
21:12		1082	S2G05 DELTA DIALING IN
21:13		1083	S2G05 DELTA DIALING IN
21:19		1087	S1G02 DELTA -2.6ms
21:21		1088	S1G02 DELTA 2.2ms
21:34		1097	S2G02NO FIRE
21:40		1101	S3G02 DELTA -3.4ms
21:43		1103	S2G02 NO FIRE
22:17		1125	S2G02 NO FIRE
22:19		1126	S2G02 DELTA -2.9ms
22:27		1131	S1G02 DELTA -2.1ms
22:34		1135	S1G02 DELTA 2.4ms
23:12		1158	S2G02 DELTA -2.1 ms
23:34		1173	S1G02 DELTA 2.6 ms
23:56		1188	S1G02 DELTA 2.1 ms
00:03		1193	S1G02 DELTA -2.2 ms
00:04		1194	S1G02 DELTA 2.1ms
00:21		1207	S1G02 NO FIRE
00:36		1219	S3G02 DELTA -3.1 ms
00:46		1227	S2G02 DELTA -2.3 ms
00:48		1229	S2G02 DELTA 2.1 ms
00:52		1232	S3G02 DELTA -2.2ms
00:53		1233	S1G02 DELTA -2.2 ms
00:54		1234	S3G01 DELTA TIMING 2.7ms
01:00		1238	S2G02 DELTA -2.1 ms
01:01		1239	S1G02 DELTA 2.1 ms
01:20		1255	S3G02 DELTA -2.3 ms
01:41		1273	S3G02 DELTA 2.2 ms
01:44		1274	S3G02 DELTA -3.7 ms
01:53		1284	S3G02 DELTA -2.5 ms
02:16		1303	S1G02 DELTA 2.1 ms
02:18		1305	S1G02 DELTA 2.1 ms
02:40		1323	S2G02 NO FIRE
02:43		1326	S2G03 NO FIRE
02:50		1332	S3G02 DELTA -2.1 ms
03:17		1357	S3G01 DELTA 2.2ms
03:17		1358	S3G01 DELTA -2.2ms

[illegible]

Observers Log

Vessel	Langseth
Client	Taiger 2
Area	Taiwan Straights etc.
Job Number	MGL0906

Party Chief	AJ
Ch. Observer	
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	N/A	N/A	FGSP	1393
SP #	N/A	N/A	LGSP	3103

Line	MGL0906_01A
Sequence	002
Direction	352

Streamer Parameters				
	1	2	3	4
Length	N/A			
Auxiliaries	N/A			
Shotpoint Interval:	150m			
Offset CS - CFG	N/A			
Group Interval:	N/A			
Number of channels	N/A			
SOL Cable Noise, µB	N/A			
EOL Cable Noise, µB	N/A			

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	N/A
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	06/05/09	06/05/09
Time UTC	1549	22:38
Volume (cu in.)	6600	6600
Streamer Depth (m)	N/A	N/A
Wind (kts)	20	18
Sea State (ft)	6-9	1-3
Water Depth (m)	2932	46.1

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments

SOL @1549 LAT 20°56'53.394 N 119°27'17.378 W
 Global gun setting 2ms timing error with a 4ms spread error set at SP1403
 OBS crossing @16:00 SP 1400 OBS_T3_18
 OBS crossing SP1499 OBS_T3_17
 OBS crossing SP 1599 OBS_T3_16
 OBS crossing SP1698 OBS_T3_15
 OBS crossing SP1798 OBS_T3_14
 OBS crossing SP1897 OBS_T3_13
 OBS crossing SP1997 OBS_T3_12
 OBS crossing SP2096 OBS_T3_11 @04:04
 05:31 Pwr cycle string 4 comm errors G9,10.
 OBS crossing SP2296 OBS_T3_09 @07:30
 OBS crossing SP2395 OBS_T3_08 @09:11
 EOL SP 3103 LAT 23 14 38.362 N LON 119 07 25.268 E

Line Status:

Abbreviations	
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FCSP - First Chargable SP	LFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
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17:48	N/A	927	N/A	DELTA TIMING S1G02 2.7 ms S3G02 -2.4ms
17:49		928		S2G03 NO FIRE
17:57		933		S2G06 NO FIRE
18:03		937		S2G06 NO FIRE
18:06		939		S2G06 NO FIRE
18:08		940		S2G03 NO FIRE S3G02 DELTA TIMING -2.1ms
18:10		942		S2G06 NO FIRE
18:11		943		S2G06 NO FIRE
18:13		944		S2G06 NO FIRE
18:16		947		S2G06 NO FIRE
18:25		954		S2G06 NO FIRE
18:27		956		S2G06 NO FIRE
18:30		958		S3G01 DELTA TIMING 2.7ms
18:31		959		S2G06 NO FIRE
18:38		965		S2G06 NO FIRE
18:46		972		S2G06 NO FIRE
18:47		973		S2G06 NO FIRE/S3G02 DELTA -2.7ms
18:53		978		S2G03 NO FIRE
18:57		981		S2G06 NO FIRE
18:58		982		S2G06 NO FIRE
18:59		983		S1G02 DELTA TIMING 2.1ms
19:02		985		S2G02 DELTA TIMING -2.1ms
19:04		986		S2G03 NO FIRE/S2G06 NO FIRE
19:05		987		S2G06 NO FIRE
19:09		990		S1G02DELTA TIMING 2.5ms
19:10		991		S2G06 NO FIRE
19:11		992		S2G03 NO FIRE
19:13		994		S3G02 DELTA TIMING -2.9ms
19:14		995		S2G06 NO FIRE
19:17		997		S1G02 DELTA TIMING 2.1ms
19:18		998		S2G06 NO FIRE
19:21		1000		S3G02 DELTA TIMING 2.7ms
19:25		1004		S2G03 NO FIRE
19:30		1007		S1G02 DELTA TIMING 2.2ms/S2G06 NO FIRE
19:31		1008		S2G06 NO FIRE
19:34		1010		S2G03 NO FIRE/ S2G06 NO FIRE
19:35		1011		S3G02 DELTA -3.6ms
19:37		1013		S1G02 DELTA -2.1 ms
19:39		1014		S2G06 NO FIRE
19:40		1015		S1G02 DELTA 2.1MS
19:41		1016		S1G02 DELTA -2.1 ms
19:44		1018		S2G03/S2G06/S2G07 NO FIRE
19:46		1019		S3G02 DELTA -2.4ms
19:47		1020		S2G06 NO FIRE
19:50		1022		S2G06 NO FIRE
19:51		1023		S2G06 NO FIRE
19:56		1027		S2G06 NO FIRE
19:57		1028		S2G06 NO FIRE
20:14		1040		S2G06 NO FIRE

20:15		1041	S2G06 NO FIRE
20:16		1042	S2G03 NO FIRE/S2G06 NO FIRE
20:24		1048	S2G06 NO FIRE
20:30		1052	S2G03 NO FIRE/S2G06 NO FIRE
20:35		1056	S3G02 DELT 2.4ms
20:38		1058	S2G03 NO FIRE/S2G06 NO FIRE
20:40		1059	S2G03 DELTA -2.3ms
20:41		1060	S1G02 DELTA 2.1ms/S2G06 NO FIRE
20:49		1066	S2G03 NO FIRE/S2G06 NO FIRE/S3G02 DELTA 2.1ms
20:52		1068	S1G02 DELTA -2.1ms
20:55		1070	S2G06 NO FIRE
21:06		1078	S2G03 NO FIRE
21:08		1079	S2G07 NO FIRE
21:09		1080	S2G07 NO FIRE
21:11		1081	S2G07 NO FIRE
21:12		1082	S2G05 DELTA DIALING IN
21:13		1083	S2G05 DELTA DIALING IN
21:19		1087	S1G02 DELTA -2.6ms
21:21		1088	S1G02 DELTA 2.2ms
21:34		1097	S2G02NO FIRE
21:40		1101	S3G02 DELTA -3.4ms
21:43		1103	S2G02 NO FIRE
22:17		1125	S2G02 NO FIRE
22:19		1126	S2G02 DELTA -2.9ms
22:27		1131	S1G02 DELTA -2.1ms
22:34		1135	S1G02 DELTA 2.4ms
23:12		1158	S2G02 DELTA -2.1 ms
23:34		1173	S1G02 DELTA 2.6 ms
23:56		1188	S1G02 DELTA 2.1 ms
00:03		1193	S1G02 DELTA -2.2 ms
00:04		1194	S1G02 DELTA 2.1ms
00:21		1207	S1G02 NO FIRE
00:36		1219	S3G02 DELTA -3.1 ms
00:46		1227	S2G02 DELTA -2.3 ms
00:48		1229	S2G02 DELTA 2.1 ms
00:52		1232	S3G02 DELTA -2.2ms
00:53		1233	S1G02 DELTA -2.2 ms
00:54		1234	S3G01 DELTA TIMING 2.7ms
01:00		1238	S2G02 DELTA -2.1 ms
01:01		1239	S1G02 DELTA 2.1 ms
01:20		1255	S3G02 DELTA -2.3 ms
01:41		1273	S3G02 DELTA 2.2 ms
01:44		1274	S3G02 DELTA -3.7 ms
01:53		1284	S3G02 DELTA -2.5 ms
02:16		1303	S1G02 DELTA 2.1 ms
02:18		1305	S1G02 DELTA 2.1 ms
02:40		1323	S2G02 NO FIRE
02:43		1326	S2G03 NO FIRE
02:50		1332	S3G02 DELTA -2.1 ms
03:17		1357	S3G01 DELTA 2.2ms
03:17		1358	S3G01 DELTA -2.2ms

03:27		1367	S3G02 DELTA 2.2 ms
1548		1391	S1G02 DELTA 1.6 ms/ S3G02 DELTA 2.1 ms
1550		1392	S1G02 DELTA 1.5 ms
1552		1394	S1G02 DELTA 1.2 ms/ S3G02 DELTA -1.2 ms
1635		1433	S3G02 DELTA -3.2 ms
1727		1484	S3G02 DELTA -2.5 ms
1757		1514	S1G03 NO FIRE
1807		1524	S3G02 DELTA -3.0 ms
1809		1526	S3G02 DELTA 2.5 ms
1842		1558	S3G02 DELTA -3.0 ms
1845		1561	S3G02 DELTA -2.2 ms
1854		1569	S1G02 DELTA -2.3ms
1906		1575	S3G02 DELTA -2.8 ms
1922		1595	S3G02 DELTA -2.1 ms
1927		1601	S3G02 DELTA 2.1ms
1952		1625	S2G02 DELTA -2.1 ms
2123		1713	S3G02 DELTA -2.5 ms
2125		1715	S3G02 DELTA 2.2ms
2156		1742	S3G02 DELTA -2.7ms
2200		1746	S3G02 DELTA 2.1 ms
2203		1749	S1G02 DELTA -2.4 ms
2206		1752	S3G02 DELTA -2.2 ms
2207		1753	S3G02 DELTA 2.2 ms
2213		1758	S3G02 DELTA 2.1 ms
2222		1766	S3G01 DELTA 2.8 ms
2335		1834	S1G10 DELTA 3.0 ms
2350		1848	S3G02 DELTA -2.7ms
2353		1851	S3G02 DELTA -2.9 ms
2357		1855	S3G01 DELTA 2.2 ms
0024		1881	S3G02 DELTA -2.4 ms
0027		1885	S1G02 NO FIRE/S1G03 NO FIRE
0031		1888	S1G02 DELTA -2.1 ms
0044		1901	S1G02 DELTA 2.3 ms
0114		1930	S1G04 NO FIRE
0149		1964	S3G01 DELTA 2.2 ms
0220		1994	S3G01 DELTA -2.3 ms
0228		2002	S1G04 NO FIRE
0241		2015	S4G01 DELTA -2.3 ms
0301		2035	S1G10 DELTA -2.6 ms
05:27		2176	S4G9,10 Comm error
05:28		2177	S4G9,10 Comm error
05:29		2178	S4G9,10 Comm error
05 :30		2179	S4G9,10 Comm error
05:31			Pwr cycle S4
05:32		2181	No fire whole string 4
05:33			All OK
0724		2290	S1G02 DELTA -2.6 ms
07:53		2318	S3G02 DELTA -2.1 ms
08:34		2359	S3G02 DELTA -2.4 ms
10:18		2457	S3G02 DELTA -2.2 ms
10:50		2487	S3G02 DELTA -2.2 ms

10:58		2495	OBS crossing SP2495 OBS_T3_07 @10:58
11:50		2546	S3G02 DELTA -2.8 ms
11:58		2554	S4G09 NO FIRE
12:15			Passed over a strong reflector. Looks like submerged reef with sediment cover.
12:19		2575	S3G02 DELTA -2.3ms
12:38		2594	OBS crossing SP2594 OBS_T3_06 @12:38
13:02			leaving submerged reef
13:02		2619	S3G02 DELTA -2.3ms
13:07		2624	S3G02 DELTA -2.3ms
13:11		2628	S3G02 DELTA -2.5ms
13:16		2633	S3G02 DELTA -2.2ms
13:20		2637	S3G02 DELTA -2.6ms
13:21		2638	S3G02 DELTA 2.3ms
13:22		2639	S3G02 DELTA -3.4ms
13:24		2641	S3G02 DELTA 2.8ms
13:52		2667	S3G02 DELTA -2.3ms
13:57		2672	S3G02 DELTA -2.5ms
14:21		2695	S3G02 DELTA -3.1ms
14:25		2699	S3G02 DELTA -2.6ms
14:28		2701	S3G02 DELTA 2.1ms
14:35		2708	OBS crossing SP2708 OBS_T3_05 @14:35
14:39		2712	S3G02 DELTA -2.5ms
14:41		2714	S3G02 DELTA 2.1ms
14:49		2722	S3G02 DELTA-2.3ms
15:39		2769	S3G02 DELTA-2.3ms
15:45		2774	OBS crossing SP2774 OBS_T3_04 @15:45
16:04		2790	S3G02 DELTA-2.2ms
16:09		2794	S3G02 DELTA -2.7ms
16:11		2796	S3G02 DELTA -2.2ms
16:20		2803	S3G02 DELTA -3.1ms
16:27		2808	S3G02 DELTA -3.2 ms
16:27		2808	Spread Error 4.2ms
17:02		2830	S1G02 DELTA 2.2ms
17:05		2832	S3G02 DELTA 2.1ms
17:31		2849	S1G02 DELTA -2.1ms
17:31		2849	S3G02 DELTA 2.2ms
17:43		2857	OBS crossing SP2857 OBS_T3_03@17:43
17:48		2860	S3G02 DELTA 3.5ms
17:53		2863	S1G02 DELTA -2.5ms
18:18		2880	S1G02 DELTA 2.2ms
18:31		2888	S3G07 DELTA 2.2ms
18:45		2898	S3G04 DELTA 2.4ms
18:47		2899	Spread Error 4.2ms
18:47		2899	S3G02 DELTA -3.3ms
18:48		2900	Gun string 2 no fire
19:12		2917	S3G02 DELTA 2.4ms
19:21		2923	S3G02 DELTA -2.6ms
19:33		2932	S3G02 DELTA 2.2ms
19:43		2940	S3G02 DELTA -2.3ms
20:35		2986	S3G02 DELTA -2.2ms
20:52		3003	OBS crossing SP3003 OBS_T3_02@20:52

[illegible]

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	South China Sea
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #			FGSP	964
SP #	964	1377	LGSP	1377

Line	MGL0906_02
Sequence	003
Direction	172

Streamer Parameters				
	1	2	3	4
Length	No Streamer	None	None	None
Auxiliaries				
Shotpoint Interval:	150			
Offset CS - CFG				
Group Interval:				
Number of channels				
SOL Cable Noise, μB				
EOL Cable Noise, μB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	No Streamer
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/07/09	05/08/09
Time UTC	23:44	07:36
Volume (cu in.)	6600	6600
Streamer Depth (m)	N/A	N/A
Wind (kts)	8.8	4
Sea State (ft)	1-3	1-3
Water Depth (m)	44.1	75

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

[illegible]

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	South China Sea
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #			FGSP	1008
SP #			LGSP	1083

Line	MGL0906_03
Sequence	004
Direction	270

Streamer Parameters				
	1	2	3	4
Length	No Streamer	None	None	None
Auxiliaries				
Shotpoint Interval:	150			
Offset CS - CFG				
Group Interval:				
Number of channels				
SOL Cable Noise, μB				
EOL Cable Noise, μB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	No Streamer
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/08/09	05/08/09
Time UTC	07:37	09:07
Volume (cu in.)	6600	6600
Streamer Depth (m)	6600	
Wind (kts)	4	9.5
Sea State (ft)	1-3	1-3
Water Depth (m)	75	65

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

[illegible]

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	South China Sea
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Ko
Observers	

	SOL	EOL		
Tape #			FGSP	971
SP #			LGSP	1636

Line	MGL0906_04
Sequence	005
Direction	90

Streamer Parameters				
	1	2	3	4
Length	No Streamer	None	None	None
Auxiliaries				
Shotpoint Interval:	150			
Offset CS - CFG				
Group Interval:				
Number of channels				
SOL Cable Noise, μB				
EOL Cable Noise, μB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	No Streamer
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/08/09	05/08/09
Time UTC	10:13	21:29
Volume (cu in.)	6600	6600
Streamer Depth (m)	NA	NA
Wind (kts)	10	10.7
Sea State (ft)	2-3	1-2
Water Depth (m)	61	178

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
10:13		971		S1G2Delta timing 3.0 ms SOI
10:37		991		S3G2Delta timing-2.4 ms
10:45		998		S3G2Delta timing 2.3 ms
11:12		1023		S2G2Delta timing 2.2 ms
11:13		1024		S2G2Delta timing -2.1 ms
12:00		1070		S2G2Delta timing 2.4 ms OBS crossing, same shot point.
12:01		1071		S2G2Delta timing -2.2m:
12:34		1103		S2G02Delta timing 2.2ms
12:48		1117		S2G02Delta timing 3.1m:
12:52		1121		S2G02Delta timing 3.6m:
12:53		1122		S2G02Delta timing -3.7ms, S3G2 delta timing -2.1 m
12:26		1126		S2G02Delta timing 2.5m:
12:27		1127		S2G02Delta timing -2.2m:
13:06		1135		S2G02Delta timing -2.9m:
13:10		1139		S2G02Delta timing -3.5m:
13:12		1141		S2G02Delta timing -2.1m:
13:13		1142		S2G02Delta timing 2.3ms
13:14		1143		S2G02Delta timing -2.4m:
13:15		1144		S2G02Delta timing 3.1m:
13:16		1145		S2G02Delta timing -2.7m:
13:17		1146		S2G02Delta timing 2.6m:
13:19		1149		S2G02Delta timing 3.3m:
13:20		1150		S2G02Delta timing -2.4m:
13:21		1151		S3G02Delta timing -2.3m:
13:27		1157		S2G02Delta timing 3.7m:
13:30		1160		S2G02Delta timing -2.9m:
13:41		1170		S2G02Delta timing 3.3m:
13:43		1172		S2G02Delta timing -3.1m:
13:48		1178		S2G02Delta timing 3.9m:
13:50		1180		S2G02Delta timing -2.7m:
13:53		1183		S2G02Delta timing 3.3m:
13:54		1184		S2G02Delta timing -3.3m:
13:56		1186		S2G02Delta timing 2.5m:
14:03		1193		S2G02Delta timing 2.6m:
14:04		1194		S2G02Delta timing -2.1m:
14:06		1196		S2G02Delta timing -2.4m:
14:07		1197		S2G02Delta timing -2.5m:
14:20		1211		S2G02Delta timing 2.6m:
14:21		1212		S3G02Delta timing -2.8m:
14:27		1218		S2G02Delta timing 5.0m:
14:30		1221		S2G02Delta timing -3.8m:
14:39		1230		S3G02Delta timing -2.8m:
15:09		1261		S3G02Delta timing -2.3m:
15:32		1284		S1G06 No Fire
16:13		1325		S3G02Delta timing -2.5m:
16:22		1335		OBS crossing, OBS T4W_0:
16:31		1343		S3G02Delta timing -2.3m:
16:36		1348		S3G02Delta timing -2.4m:
16:49		1360		S3G02Delta timing -2.8m:
16:50		1361		S3G02Delta timing 2.2m:
16:56		1367		S3G02Delta timing -2.3m:
17:51		1420		S3G02Delta timing -2.5m:
18:48		1476		S3G02Delta timing -2.1m:
21:03		1610		S3G02 Delta timing -2.2 m
21:29		1636		OBS crossing T4W_01 SP 1636

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	South China Sea
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bernard McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #			FGSP	868
SP #			LGSP	1415

Line	MGL0906_05
Sequence	006
Direction	335

Streamer Parameters				
	1	2	3	4
Length				
Auxiliaries				
Shotpoint Interval:	100			
Offset CS - CFG				
Group Interval:				
Number of channels				
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	na
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/09/09	05/09/09
Time UTC	00:05	06:19
Volume (cu in.)	6600	6600
Streamer Depth (m)		
Wind (kts)	7	13.5
Sea State (ft)	2-3	2-4
Water Depth (m)	278	135

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL 22'37"12.220N 120'04"29.494 E SP 868
Spared S2G04 active S2G05 SP 1010
EOL SP 1450 Lat 23 d 03m 00.477 N Lon 119 d 51m 01. 897 E SP1415
Line Status:

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

[illegible]

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	Taiwan Straights
Job Number	MGL0906

Party Chief	AJ
Ch. Observer	
Sen. Observer	
Observers	

	SOL	EOL		
Tape #			FGSP	1003
SP #			LGSP	1522

Line	MGL0906_06
Sequence	007
Direction	359

Streamer Parameters				
	1	2	3	4
Length	na			
Auxiliaries				
Shotpoint Interval:	100			
Offset CS - CFG	185			
Group Interval:	12.5			
Number of channels	na			
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	8m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	na
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/5/09/09	05/09/09
Time UTC	06:21	11:53
Volume (cu in.)	6600	6600
Streamer Depth (m)	na	na
Wind (kts)	13.5	11.4
Sea State (ft)	2-4	2-4
Water Depth (m)	137	117

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
06:37		1025		S3G02 Delta timing -2.3ms
07:00		1057		S3G02 Delta timing -2.1 ms
07:16		1080		S3G02 Delta timing -2.7 ms
08:41		1207		S2G02 Delta timing 2.3 ms.
08:41		1208		S2G02 Delta timing -3.2 ms.
08:53		1226		S3G02 Delta timing -2.4 ms
08:55		1228		S2G02 Delta timing 3.0 ms.
08:57		1231		S2G02 Delta timing 2.9 ms.
08:59		1235		S2G02 Delta timing 2.5 ms.
09:00		1237		S2G02 Delta timing 3.5 ms.
09:14		1257		S3G02 Delta timing 2.2ms
09:24		1273		S2G02 Delta timing 2.4ms
09:25		1274		S4G09:10 Comm error
09:25		1275		S4G09:10 Comm error
09:26		1276		S4G09:10 Comm error
09:27		1277		S4G09:10 Comm error
09:27		1278		S4G09:10 Comm error
09:28		1279		S4G09:10 Comm error
09:28		1280		S4G09:10 Comm error
09:29		1281		S4G09:10 Comm error
09:30		1282		S4G09:10 Comm error
09:30		1283		S4G09:10 Comm error
09:31		1284		S4G09:10 Comm error
09:32		1285		S4G09:10 Comm error
09:32		1286		S4G09:10 Comm error
09:33		1287		S4G09:10 Comm error
09:34		1288		S4G09:10 Comm error
09:34		1289		S4G09:10 Comm error
09:35		1290		S4G09:10 Comm error
09:36		1291		S4G09:10 Comm error
09:36		1292		S4G09:10 Comm error
09:37		1293		S4G09:10 Comm error
09:38		1294		String 4 no fire Power Cycle string 4
09:40		1297		S4G01 no fire
09:40		1298		S4G02 no fire
09:47		1308		S4G03 no fire
09:52		1316		S4G02 no fire
09:56		1322		S4G01 no fire
09:58		1325		S4G01 no fire
09:59		1326		S2G02 delta time 2.1ms
10:02		1331		S1G04 no fire
10:11		1345		S1G04 no fire
10:13		1348		S1G04 no fire
10:21		1360		S4G02 no fire
10:28		1371		S4G02 no fire
10:29		1372		S4G02 no fire
10:41		1391		S4G01 no fire
10:45		1397		S4G01 no fire
10:49		1405		S4G02 no fire
10:51		1407		S4G01 no fire
11:01		1424		S4G02 no fire
11:04		1429		S4G01 no fire
11:05		1432		S4G01 no fire
11:07		1434		S4G02 no fire
11:08		1436		S4G02 no fire
11:12		1444		S4G02 no fire
11:22		1462		S4G01 no fire
11:34		1483		S3G02 Delta timing -2.3 ms
11:35		1486		S4G01 no fire
11:37		1490		S4G03 no fire
11:41		1497		S4G02 no fire
11:49		1513		S4G01 no fire
11:50		1516		S4G01 no fire

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	South China Sea
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bernard McKiernan
Sen. Observer	Ted Koczyński
Observers	

	SOL	EOL		
Tape #			FGSP	1006
SP #			LGSP	1258

Line	MGL0906_06A
Sequence	008
Direction	26

Streamer Parameters				
	1	2	3	4
Length				
Auxiliaries				
Shotpoint Interval:	100			
Offset CS - CFG				
Group Interval:				
Number of channels				
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	na
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/09/09	05/09/09
Time UTC	11:55	14:00
Volume (cu in.)	6600	6600
Streamer Depth (m)		
Wind (kts)	9.3	8.6
Sea State (ft)	2-4	2-4
Water Depth (m)	108	52

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
00:01		891		S2G02 Delta Timing 5.0m:
00:02		892		S2G02 Delta Timing -3.7m:
00:03		893		S2G02 Delta Timing -2.8m:
00:03		894		S2G02 Delta Timing 4.5m:
00:05		896		S2G02 Delta Timing -4.8m:
00:07		899		S2G02 Delta Timing -3.0m:
00:27		925		S3G02Delta Timing -2.3m:
00:47		953		S3G02Delta Timing -3.0m:
00:48		954		S3G02Delta Timing 2.2m:
01:00		971		S3G02Delta Timing -2.1m:
01:26		1010		S2G04 NO Fire
01:27		1011		S2G05Delta Timing 5.0m:
01:27		1012		S2G05Delta Timing -2.6m:
01:29		1015		S3G02Delta Timing -2.4m:
01:04		1001		Late entry OBS Crossing OBS_TW4_01
01:59		1060		S3G02Delta Timing -2.2m:
02:10		1076		S2G02 Delta Timing 2.6m:
02:11		1077		S2G02 Delta Timing -2.8m:
02:12		1079		S2G02 Delta Timing -2.4m:
02:13		1080		S2G02 Delta Timing -2.1m:
02:39		1120		S3G02 Delta Timing -2.2m:
02:42		1124		S2G02 Delta Timing 6.6m:
02:43		1125		S2G02 Delta Timing -4.0m:
02:44		1127		S2G02 Delta Timing 2.1m:
02:46		1130		S2G02 Delta Timing 2.3m:
11:56		1008		S4G2 No fire
11:59		1016		S4G1 No fire
12:00		1018		S4G3 No fire
12:08		1034		S4G2 No fire
12:09		1037		S4G2 No fire
12:19		1056		S4G1 No fire
12:23		1064		S4G1 No fire
12:24		1067		S4G1 No fire
12:26		1071		S4G2 No fire
12:35		1088		S4G1 No fire
12:37		1091		S4G1 No fire
12:37		1092		S4G1 No fire
12:39		1096		S4G1 No fire
12:43		1104		S4G3 No fire
12:54		1127		S4G1 No fire
12:57		1132		S4G2 No fire
12:57		1134		S4G3 No fire
13:05		1150		S4G2 No fire
13:10		1160		S4G1 No fire
13:12		1163		S4G3 No fire
13:14		1168		S4G9,S4G10 No fire
13:15		1169		S4G9,S4G10 Comm Error
13:15		1170		S4G9,S4G10 Comm Error
13:16		1171		S4G9,S4G10 Comm Error
13:16		1172		Restarted String 4 No fire whole string
13:16		1173		String 4 OK
13:17		1174		S4G4,G6 no fire
13:19		1177		S4G3 No fire
13:22		1184		S4G4 no fire
13:23		1186		S4G6 no fire
13:25		1189		S4G3 No fire
13:28		1195		S4G6 no fire
13:29		1197		S4G3 No fire
13:29		1198		S4G3 ,G4 No fire
13:39		1218		S4G4 no fire
13:45		1229		S4G1,G6 No fire
13:46		1232		S4G4 no fire
13:47		1234		S4G1 No fire
13:50		1240		S4G4 no fire
13:51		1241		S2G2delta timing 3.3ms
13:51		1241		S4G6 no fire
13:52		1243		S2G2delta timing -3.2ms
13:54		1248		S4G1 No fire
13:55		1249		S4G4 no fire
13:59		1257		S4G1no fire
14:00		1258		EOL

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	South China Sea
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bernard McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #			FGSP	1002
SP #			LGSP	1237

Line	MGL0906_07
Sequence	009
Direction	28

Streamer Parameters				
	1	2	3	4
Length				
Auxiliaries				
Shotpoint Interval:	100			
Offset CS - CFG				
Group Interval:				
Number of channels				
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	na
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/09/09	05/09/09
Time UTC	14:00	17:01
Volume (cu in.)	6600	40
Streamer Depth (m)		
Wind (kts)	7.2	5
Sea State (ft)	3	1-3
Water Depth (m)	53.2	24

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL Lat 23d 43m 40.627N Lon 119d57m 27.924E
~15:30 Digishot stopped, missed two shot while rebooting SP#'s 1142 and 1143.
15:38 S2G1,2,3,5 flat line no error in digishot log
15:46 no errors since reboot.
16:06 -16:13 errors on STRING 2 flat line display with no errors reported in digishot
Reduced volume to 4950 in3 due to excessive noise levels reported SP 1209 String 2 removed from active
Compressor failure degraded line EOL early
EOL LAT 23'55"52.367 N LONG 120'04"31.171 E SP 1237
Line Status:

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
14:00		1002		S2G2 Delta time 4.2
14:01		1003		S4G6 No fire
14:02		1004		S2G2 Delta time -3.4 ms
14:02		1005		S2G2 Delta time -3.2 ms
14:03		1007		S4G1 No fire
14:03		1008		S2G2 Delta -2.2 ms
14:04		1010		S2G2 Delta time -2.8ms
14:05		1011		S2G2 Delta time 3.5ms
14:05		1012		S2G2 Delta time -3.7ms
14:06		1013		S2G2 Delta time -4.0ms
14:07		1015		S2G2 Delta time -3.9 ms
14:08		1016		S4G6 No fire
14:18		1035		S4G3 No fire
14:21		1041		S2G2 Delta time 3.0 ms
14:23		1043		S2G2 Delta time 3.8 ms
14:24		1045		S2G2 Delta time -4.2 ms
14:24		1045		S4G4 No fire
14:24		1046		S4G6 No fire
14:25		1047		S2G2 Delta time 6.0 ms
14:25		1048		S2G2 Delta time -4.4 ms
14:24		1050		S2G2 Delta time 3.6 ms
14:27		1051		S4G6 No fire
14:28		1052		S2G2 Delta time -3.6 ms
14:28		1053		S2G2 Delta time 4.5 ms
14:29		1055		S2G2 Delta time -3.4 ms
14:31		1058		S2G2 Delta time 2.7 ms
14:32		1060		S2G2 Delta time -2.1 ms
14:33		1061		S2G2 Delta time 5.4 ms
14:34		1062		S2G2 Delta time -3.5 ms
14:34		1063		S2G2 Delta time -4.6ms
14:35		1064		S4G1 No fire
14:36		1066		S4G3,G6 No fire
14:39		1070		S4G6 No fire
14:39		1071		S4G6 No fire
14:40		1072		S2G2 Delta time 2.4 ms, S4G4 No fire
14:40		1073		S2G2 Delta time 2.6 ms
14:42		1075		S4G6 No fire
14:43		1077		S2G2 Delta time 3.0 ms
14:44		1078		S4G6 No fire
14:49		1086		S4G3 No fire
14:53		1091		S3G2 Delta time -2.1 ms
14:54		1092		S4G6 No fire
14:55		1093		S2G2 Delta time 3.1 ms
14:55		1094		S2G2 Delta time -2.1 ms
14:57		1097		S4G4 No fire
14:58		1098		S4G6 No fire
15:00		1101		S4G6 No fire
15:04		1106		S4G3 No fire
15:07		1110		S4G1,G6 No fire
15:13		1118		S4G4 No fire
15:14		1119		S4G4 No fire
15:16		1122		S4G4 No fire
15:21		1130		S3G2 Delta time -2.3 ms
15:22		1131		S4G4 No fire
15:24		1134		S2G2 Delta time -2.1 ms
15:30		1142		Missed due to digishot reboot
15:31		1143		Missed due to digishot reboot
15:38		1154		S2G1,2,3,5 flat line no error in digishot log, traces green
16:06		1193		S2G1,2,3,5,6,7,8,9,10 flat line no error in digishot log, traces green
16:07		1195		S2G1,2,3,5 flat line no error in digishot log, traces green
16:13		1202		S2G1,2,3,5,6,7,8,9,10 flat line no error in digishot log, traces green
16:19		1209		Reduced volume to 4950 in3 due to excessive noise levels reported
16:40		1237		Call from gun shack compressor switch
16:42		1240		Compressor failure
16:43		1241		ALL guns off
16:44		1242		ALL guns on
16:45		1243		ALL guns off
16:47		1246		S1G03 firing
16:59		1256		Compressor returns to full 2000 PSI
17:01		1257		EOL

Observers Log

Vessel	Langseth
Client	Taiger #1
Area	South China Sea
Job Number	MGL0905

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #			FGSP	1280
SP #			LGSP	1682

Line	MGL0906_07A
Sequence	010
Direction	28

Streamer Parameters				
	1	2	3	4
Length				
Auxiliaries				
Shotpoint Interval:	100			
Offset CS - CFG				
Group Interval:				
Number of channels				
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	15s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/09/09	05/09/09
Time UTC	17:42	22:56
Volume (cu in.)	3300	3300
Streamer Depth (m)		
Wind (kts)	4.9	5
Sea State (ft)	1-3	FLAT
Water Depth (m)	26	43

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL LAT 23'56"58.294 N 120'05"09.501 E
String 1 and string 3 make the 2 string array for survey line along coastal monitors
String 03 disabled String 02 active 1340 for strings 3&4 recovery and maintenance
String 4 deploying 20:13 SP 1484
String 4 in position and firing String 2 spared total volume 3480 SP1508
string 4 firing all guns except S4G05 TOTAL VOLUME 3300 SP1515
String 3 deployed dialing at SP1634
Strings 1 and 3 active strings 2 and 4 spared 3300 in3 SP 1637
EOL MGL0906_07A SEQUENCE 010 LAT 24'16"10.333 N LONG 120'16"21.063 E
Line Status:

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

[illegible]

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #			FGSP	2232
SP #	2232	3231	LGSP	3231

Line	MGL0906_07B
Sequence	011
Direction	28

Streamer Parameters				
	1	2	3	4
Length				
Auxiliaries				
Shotpoint Interval:	100			
Offset CS - CFG				
Group Interval:				
Number of channels				
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	no streamer
Total recording delay	
Sample Rate	
Polarity	
Low-Cut	
Hi-Cut	
Tape Format	

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/10/09	05/10/09
Time UTC	04:19	15:36
Volume (cu in.)	6600	6560
Streamer Depth (m)		
Wind (kts)	12.8	12.4
Sea State (ft)	2-4	2-4
Water Depth (m)	66	102

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments
Ramping up 03:38
04:19 SOL SP 2232 Lat 24d42m25.021s N Lon 120d 31m 45.572s N
12:50 SP2994 S2G9 off S2 G5 on.
Start of turn @ 15:24
EOL 15: Lat 25d 29.9120 N N Lon 121d 00.3792 E SP 3231
Line Status:

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
04:19		2232		SOL Full power
04:40		2259		whole string 2 out! All green but flat line, no error message
06:57		2458		S2G02, green but flat line, no error message
07:01		2464		whole string 2 out! All green but flat line, no error message
07:15		2485		whole string 2 out! All green but flat line, no error message
07:53		2544		whole string 2 out! All green but flat line, no error message
08:02		2559		whole string 2 out! All green but flat line, no error message
12:40		2978		S2G1,9 flat line
12:41		2980		S2G1,9 flat line
12:42		2981		whole string 2 out! All green but flat line, no error message
12:42		2982		S2G9 flat line
12:43		2983		whole string 2 out! All green but flat line, no error message
12:43		2984		whole string 2 out! All green but flat line, no error message
12:45		2985		S2G9 flat line
12:45		2986		S2G9 flat line
12:46		2987		S2G9 no fire
12:47		2988		S2G9 no fire
12:47		2989		S2G9 no fire
12:48		2990		S2G9 no fire
12:48		2991		S2G9 no fire
12:49		2992		S2G9 no fire
12:49		2993		S2G9 no fire
12:50		2994		S2G9 turned off S2G5 on
12:51		2995		whole string 2 out!
12:51		2996		Delta timing S2G5 5.1 ms.(newly online
12:54		3000		Delta timing S3G2 -2.1 ms.(newly online
12:59		3007		string 2 no fire
13:00		3009		string 2 no fire
13:04		3015		S3G2 Delta Timing -2.2ms
13:08		3020		string 2 no fire
13:09		3022		string 2 no fire
13:10		3023		S3G2 Delta Timing -2.4ms
13:12		3026		S3G2 Delta timing -2.1ms
13:15		3030		string 2 no fire
13:15		3030		S3G2 Delta timing -2.2ms
13:19		3036		string 2 no fire
13:21		3038		S3G2 delta timing 2.7ms
13:23		3041		S3G2 delta timing -2.6ms
13:26		3045		S3G2 delta timing -2.4ms
13:29		3050		S3G2 delta timing 2.1ms
13:44		3071		S3G2 delta timing 2.2ms
13:52		3082		S2G1 no fire
13:54		3084		S3G2 delta timing -2.2ms
13:58		3091		S2G1 no fire
14:07		3103		string 2 no fire
14:13		3112		string 2 no fire
14:14		3113		string 2 no fire
14:16		3116		S3G2 delta timing 2.2ms
14:21		3123		S3G2 delta timing 2.4ms
14:26		3130		string 2 no fire
14:29		3134		S3G2 delta timing 2.1ms
14:33		3140		S3G2 delta timing -2.4ms
14:35		3143		string 2 no fire
14:38		3147		S2G1,2,3,4,5 no fire
14:39		3149		string 2 no fire
14:40		3150		S2G1,2,3,4,5 no fire
14:41		3151		S2G1,2,3 no fire
14:41		3152		string 2 no fire
14:43		3154		S3G2 delta timing 2.2ms
14:43		3155		S2G1 no fire
14:45		3158		string 2 no fire
14:46		3159		string 2 no fire power cycle
14:48		3161		string 2 no fire
14:52		3168		S3G2 delta timing 2.7ms
14:55		3172		S3G2 delta timing -2.4ms
15:21		3210		S3G2 delta timing 2.1ms
15:24		3215		start of turn
15:29		3223		S3G2 delta timing 2.1ms
15:31		3225		S3G2 delta timing -2.2ms
15:33		3228		S3G2 delta timing 2.1ms
15:35		3230		string 2 no fire
15:36		3231		EOL

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #			FGSP	1007
SP #			LGSP	2517

Line	MGL0906_08
Sequence	012
Direction	89

Streamer Parameters				
	1	2	3	4
Length				
Auxiliaries				
Shotpoint Interval:	100			
Offset CS - CFG				
Group Interval:				
Number of channels				
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	No streamer
Total recording delay	
Sample Rate	
Polarity	
Low-Cut	
Hi-Cut	
Tape Format	

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/10/09	05/11/09
Time UTC	15:37	09:20
Volume (cu in.)	6560	6560
Streamer Depth (m)		
Wind (kts)	12.8	5
Sea State (ft)	2-4	1-3
Water Depth (m)	106	462

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL MGL09_06_08_S012 SP 1007 @15:37 Lat 25d29.9293 ' N Lon 121d 00.3583' E
S2G9 spare from previous line due to no fires S2G5 on, 6560 cu in
S2G9 spare from previous line due to no fires S2G5 on, 6560 cu in
String 2 no fires from sp 1132 to 1142 intermittent power cycle at SP 1142 recovered string
string 1 guns 1-8 comm failures no fire condition since SP1393 plan recovery of gun string 1 new volume 5350 in3
Activated spares on string 3 and 4 SP1450 total volume is 3660 in3
String one repaired and deployed dialing in SP1569 VOLUME
String 2 in position and dialing in SP1578
SP 1585 back up to full volume S2G09 SPARED S2G05 ACTIVE Volume 6560 in3
Lost GPS gun string 3 SP1812 00:45 UTC
09:20 power down to one gun S1G3, Dolphins.
EOL09:20 SP 2517 Lat 25d30m 02.771s N Lon 122d 30m 23.486 s E
09:53 Ramp up, 10:01 power down.
Line Status:

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
15:38		1009		S3G2 delta timing -2.7 ms
15:54		1030		S3G2 delta timing 2.3 ms
15:55		1032		S2G2 no fire
15:57		1034		S2G2 no fire
16:01		1040		S3G2 delta timing 2.8 ms
16:03		1044		S3G02 delta 2.2 ms
16:11		1056		S3G02 delta 2.2 ms
16:16		1063		S3G02 delta -3.0 ms
16:19		1068		S3G02 delta 2.3 ms
16:21		1070		S3G02 delta -2.6 ms
16:23		1073		S3G02 delta 2.3 ms
16:23		1074		S3G02 delta 3.6 ms
16:26		1078		S3G02 delta 2.8 ms
16:27		1080		S3G02 delta -2.4 ms
16:29		1083		S3G02 delta 2.4 ms
16:30		1084		S2G05 no fire
16:30		1085		S3G02 delta -2.5 ms
16:33		1089		S3G02 delta -2.4 ms
16:37		1094		S2G01 no fire
16:37		1094		S2G02 no fire
16:40		1099		S3G02 delta -2.8ms
16:49		1112		S3G02 delta -2.5ms
16:53		1119		Gun String 2 no fire
16:56		1123		S3G02 delta 2.2ms
16:57		1125		S3G02 delta -2.1ms
17:01		1132		Gun String 2 no fire
17:02		1133		Gun String 2 no fire
17:05		1138		Gun String 2 no fire
17:07		1140		Gun String 2 no fire
17:07		1141		Gun String 2 no fire
17:08		1142		Gun String 2 no fire
17:13		1149		S3G02 delta -3.2ms
17:17		1156		S2G08 no fire
17:19		1159		S3G02 delta -2.5ms
17:23		1165		Gun String 2 no fire
17:28		1173		S3G02 delta 2.2 ms
17:33		1180		S3G02 delta -2.5ms
17:35		1183		S3G02 delta -2.2ms
17:38		1188		S3G02 delta 2.4 ms
17:42		1194		S3G02 delta -2.7ms
17:50		1207		S3G02 delta 2.3ms
17:52		1210		S3G02 delta -2.1ms
17:56		1215		Gun String 2 no fire
18:00		1222		S3G02 delta 2.6ms
18:05		1230		S3G02 delta 2.2 ms
18:12		1240		Gun String 2 no fire
18:12		1240		S3G02 delta -2.3ms
18:15		1245		Gun String 2 no fire
18:39		1283		S3G02 delta 2.2ms
18:44		1291		S3G02 delta 2.3ms
18:48		1298		S3G02 delta 2.4 ms
18:52		1305		S3G02 delta -2.7ms
18:54		1307		Gun String 2 no fire
18:56		1311		S3G02 delta 2.3ms
18:56		1312		Gun String 2 no fire
18:57		1313		S3G02 delta -2.1ms
18:59		1317		S3G02 delta 2.3ms
19:02		1321		S3G02 delta 2.1ms
19:04		1325		S3G02 delta -2.7ms
19:06		1329		S3G02 delta 2.2ms
19:07		1331		S2G08 no fire
19:12		1338		S3G02 delta -2.9ms

19:13		1341	S3G02 delta 2.2ms
19:31		1371	S1G01 Comm Error
19:31		1371	S1G02 Comm Error
19:31		1371	S1G03 Comm Error
19:31		1372	S1G01/S1G02/S1G03/S1G04/S1G05/S1G06/S1G07/S1G08/ Comm Error
19:32		1373	S1G01/S1G02/S1G03/S1G08 no fire
19:32		1374	S1G08 delta -2.3ms
19:37		1382	S1G01-S1G08 no fire
19:38		1384	S1G01-S1G08 no fire
19:39		1385	Gun String 1 no fire
19:39		1386	Gun String 1 no fire
19:40		1387	S1G01-S1G07 no fire
19:41		1388	S1G01 no fire
19:41		1389	S1G01-S1G08 Comm Error
19:42		1390	S1G01-S1G08 Comm Error
19:42		1391	S1G01-S1G08 Comm Error
19:43		1392	Gun String 1 no fire
19:43		1392	S3G02 delta -2.1ms
19:43		1393	Gun String 1 no fire
19:44		1395	S1G01-S1G08 Comm Error Volume reduce to 5350 in3
19:45		1396	S1G01-S1G08 Comm Error
19:46		1397	S1G01-S1G08 Comm Error
19:46		1398	S1G01-S1G08 Comm Error
19:47		1399	S1G01-S1G08 Comm Error
19:59		1420	S3G02 delta -2.8ms
20:10		1437	S3G02 delta 2.4ms
20:11		1439	S3G02 delta -2.4 ms
20:18		1449	S3G05 delta -2.3ms
20:18		1449	S4G05 delta -4.2ms
20:20		1452	S3G02 delta 2.5ms
20:18		1450	Activated spares on String 3 and 4 SP1450 total volume is 3660 in3
20:29		1467	S3G02 delta 2.1ms
20:39		1569	String one repaired and deployed dialing in
21:46		1579	String 2 in position and dialing in SP1578
21:46		1580	S2G09 spared S2G05 Active
21:47		1581	String 2 no fire
21:48		1582	S2G05 delta
21:48		1583	S2G05 delta -2.7ms
21:56		1594	String 2 no fire
22:05		1608	S2G01 no fire
22:21		1632	S2G03 no fire
22:22		1633	S2G02 delta timing -2.3 ms
22:26		1639	S2G07 no fire
22:30		1645	S3G02 delta timing -2.5 ms
22:35		1651	String 2 no fire
22:45		1666	String 2 no fire
22:47		1669	S3G02 delta timing -2.4 ms
23:07		1696	S3G02 delta timing -2.8 ms
23:08		1698	String 2 no fire
23:36		1735	S2G04 no fire
23:38		1737	String 2 no fire
23:41		1741	S3G02 delta timing -2.7 ms
23:44		1745	S3G02 delta timing -2.7 ms
23:50		1752	S3G02 delta timing -2.6 ms
23:52		1754	String 2 no fire
23:54		1757	S3G02 delta timing 2.1 ms
23:56		1759	S3G02 delta timing -2.6 ms
00:02		1766	String 2 no fire
00:04		1768	String 2 no fire
00:05		1769	String 2 no fire
00:05		1769	S3G02 delta timing -2.7ms
00:07		1771	S3G02 delta timing 2.2ms
00:13		1778	S3G02 delta timing -2.7ms
00:25		1791	S3G02 delta timing -2.2ms
00:28		1794	S2G2 no fire
00:33		1799	String 2 no fire
00:33		1800	S3G2 delta timing -2.4ms
00:39		1806	S2G7 no fire

00:48		1815	S2G1 no fire
00:49		1816	S2G10 no fire
00:49		1816	S3G2 delta timing -2.2ms
00:52		1819	String 2 no fire
00:52		1819	S3G2 delta timing 2.3ms
00:54		1821	S2G8 no fire
00:54		1821	S3G2 delta timing -2.2ms
01:17		1845	S3G3 no fire
01:21		1849	String 2 no fire
01:25		1853	S3G2 delta timing 2.7ms
01:29		1858	S3G3 no fire
01:34		1863	S3G2 delta timing -2.3ms
01:35		1864	S3G4 no fire
01:36		1865	S3G2 delta timing 2.3ms
01:39		1868	S2G2 no fire
01:47		1876	S3G2 delta timing -3.0ms
01:48		1877	String 2 no fire
01:54		1885	String3 no fire
01:59		1892	String 2 no fire
01:59		1892	S3G2 delta timing -2.5ms
02:04		1897	String 2 no fire
02:12		1907	S3G2 delta timing 2.3ms
02:21		1917	S3G2 delta timing -2.4ms
02:23		1920	S3G2 delta timing -2.1ms
02:32		1929	S2G2 no fire
02:40		1938	String 2 no fire
02:41		1939	S2G2 no fire
02:46		1946	S2G2 no fire
02:49		1949	S2G2 no fire
02:53		1955	String 2 no fire
03:00		1963	String 2 no fire
03:01		1964	S3G2 delta timing -3.0ms
03:07		1972	S2G1 no fire
03:14		1981	String 2 no fire
03:16		1984	S3G2 delta timing -2.8ms
03:18		1986	S2G1,2,3 no fire
03:22		1992	S2G1 no fire
03:24		1994	String 2 no fire
03:26		1997	S2G1 no fire
03:38		2013	String 2 no fire
03:41		2017	String 2 no fire
03:53		2032	String 2 no fire
03:59		2041	String 2 no fire
04:00		2042	S3G2 delta -2.1ms
04:05		2049	S3G02 delta -2.2ms
04:07		2053	S3G02 delta 2.2ms
04:09		2055	S3G02 delta -2.3ms
04:09		2056	S2G8 no fire
04:19		2070	S2G7 no fire
04:26		2080	Gun String 2 no fire
04:31		2087	Gun String 2 no fire
04:44		2106	Gun String 2 no fire
04:46		2108	S3G02 delta -2.1ms
04:51		2116	Gun String 2 no fire
05:06		2140	S3G02 delta -2.9ms
05:08		2143	S2G01 No Fire
05:12		2148	S3G02 delta -2.2ms
05:20		2160	Gun String 2 no fire
05:32		2178	Gun String 2 no fire
05:37		2185	Gun String 2 no fire
05:39		2187	Gun String 2 no fire
05:50		2203	Gun String 2 no fire
06:21		2248	Gun String 2 no fire
06:26		2256	Gun String 2 no fire
06:40		2276	Gun String 2 no fire
06:54		2297	S2G01 S2G02 no fire
06:57		2303	Gun String 2 no fire
06:59		2306	Gun String 2 no fire

07:06		2316	Gun String 2 no fire
07:20		2339	Gun String 2 no fire
07:21		2340	S3G02 delta -2.2ms
07:22		2342	Gun String 2 no fire
07:34		2359	Gun String 2 no fire
07:37		2363	S2G01 no fire
07:38		2365	Gun String 2 no fire
07:39		2366	S3G02 delta -2.5ms
07:53		2387	Gun String 2 no fire
07:55		2390	Gun String 2 no fire
07:56		2391	S2G02 no fire
07:56		2392	S2G01 No Fire
08:01		2399	Gun String 2 no fire
08:01		2400	S2G01&G05 no fire
08:03		2403	Gun String 2 no fire
08:04		2404	S3G02 delta timing -2.4ms
08:20		2408	Gun String 2 no fire
08:50		2473	Gun String 2 no fire
08:50		2474	S3G02 delta timing -2.2ms
08:54		2479	Gun String 2 no fire
08:56		2482	Gun String 2 no fire
08:57		2484	Gun String 2 no fire
09:04		2494	Gun String 2 no fire
09:05		2496	Gun String 2 no fire
09:10		2503	Gun String 2 no fire
09:12		2506	Gun String 2 no fire
09:20		2520	Power down to 1 gun S1 G3 30 sec. rep rate.
10:13		2621	rep rate 59 sec.

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #			FGSP	1007
SP #			LGSP	

Line	MGL0906_08
Sequence	012
Direction	89

Streamer Parameters				
	1	2	3	4
Length				
Auxiliaries				
Shotpoint Interval:	100			
Offset CS - CFG	161			
Group Interval:				
Number of channels				
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	No streamer
Total recording delay	
Sample Rate	
Polarity	
Low-Cut	
Hi-Cut	
Tape Format	

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/10/09	
Time UTC	15:37	
Volume (cu in.)	6560	
Streamer Depth (m)		
Wind (kts)	12.8	
Sea State (ft)	2-4	
Water Depth (m)	106	

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL MGL09_06_08_S012 SP 1007 @15:37 Lat 25d29.9293 ' N Lon 121d 00.3583' E
S2G9 spare from previous line due to no fires S2G5 on, 6560 cu in
S2G9 spare from previous line due to no fires S2G5 on, 6560 cu in
String 2 no fires from sp 1132 to 1142 intermittent power cycle at SP 1142 recovered string
string 1 guns 1-8 comm failures no fire condition since SP1393 plan recovery of gun string 1 new volume 5350 in3
Activated spares on string 3 and 4 SP1450 total volume is 3660 in3
String one repaired and deployed dialing in SP1569 VOLUME
String 2 in position and dialing in SP1578
SP 1585 back up to full volume S2G09 SPARED S2G05 ACTIVE Volume 6560 in3
Lost GPS gun string 3 SP1812 00:45 UTC
09:20 power down to one gun S1G3, Dolphins.
EOL
Line Status:

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
15:38		1009		S3G2 delta timing -2.7 ms
15:54		1030		S3G2 delta timing 2.3 ms
15:55		1032		S2G2 no fire
15:57		1034		S2G2 no fire
16:01		1040		S3G2 delta timing 2.8 ms
16:03		1044		S3G02 delta 2.2 ms
16:11		1056		S3G02 delta 2.2 ms
16:16		1063		S3G02 delta -3.0 ms
16:19		1068		S3G02 delta 2.3 ms
16:21		1070		S3G02 delta -2.6 ms
16:23		1073		S3G02 delta 2.3 ms
16:23		1074		S3G02 delta 3.6 ms
16:26		1078		S3G02 delta 2.8 ms
16:27		1080		S3G02 delta -2.4 ms
16:29		1083		S3G02 delta 2.4 ms
16:30		1084		S2G05 no fire
16:30		1085		S3G02 delta -2.5 ms
16:33		1089		S3G02 delta -2.4 ms
16:37		1094		S2G01 no fire
16:37		1094		S2G02 no fire
16:40		1099		S3G02 delta -2.8ms
16:49		1112		S3G02 delta -2.5ms
16:53		1119		Gun String 2 no fire
16:56		1123		S3G02 delta 2.2ms
16:57		1125		S3G02 delta -2.1ms
17:01		1132		Gun String 2 no fire
17:02		1133		Gun String 2 no fire
17:05		1138		Gun String 2 no fire
17:07		1140		Gun String 2 no fire
17:07		1141		Gun String 2 no fire
17:08		1142		Gun String 2 no fire
17:13		1149		S3G02 delta -3.2ms
17:17		1156		S2G08 no fire
17:19		1159		S3G02 delta -2.5ms
17:23		1165		Gun String 2 no fire
17:28		1173		S3G02 delta 2.2 ms
17:33		1180		S3G02 delta -2.5ms
17:35		1183		S3G02 delta -2.2ms
17:38		1188		S3G02 delta 2.4 ms

17:42		1194	S3G02 delta -2.7ms
17:50		1207	S3G02 delta 2.3ms
17:52		1210	S3G02 delta -2.1ms
17:56		1215	Gun String 2 no fire
18:00		1222	S3G02 delta 2.6ms
18:05		1230	S3G02 delta 2.2 ms
18:12		1240	Gun String 2 no fire
18:12		1240	S3G02 delta -2.3ms
18:15		1245	Gun String 2 no fire
18:39		1283	S3G02 delta 2.2ms
18:44		1291	S3G02 delta 2.3ms
18:48		1298	S3G02 delta 2.4 ms
18:52		1305	S3G02 delta -2.7ms
18:54		1307	Gun String 2 no fire
18:56		1311	S3G02 delta 2.3ms
18:56		1312	Gun String 2 no fire
18:57		1313	S3G02 delta -2.1ms
18:59		1317	S3G02 delta 2.3ms
19:02		1321	S3G02 delta 2.1ms
19:04		1325	S3G02 delta -2.7ms
19:06		1329	S3G02 delta 2.2ms
19:07		1331	S2G08 no fire
19:12		1338	S3G02 delta -2.9ms
19:13		1341	S3G02 delta 2.2ms
19:31		1371	S1G01 Comm Error
19:31		1371	S1G02 Comm Error
19:31		1371	S1G03 Comm Error
19:31		1372	S1G01/S1G02/S1G03/S1G04/S1G05/S1G06/S1G07/S1G08/ Comm Error
19:32		1373	S1G01/S1G02/S1G03/S1G08 no fire
19:32		1374	S1G08 delta -2.3ms
19:37		1382	S1G01-S1G08 no fire
19:38		1384	S1G01-S1G08 no fire
19:39		1385	Gun String 1 no fire
19:39		1386	Gun String 1 no fire
19:40		1387	S1G01-S1G07 no fire
19:41		1388	S1G01 no fire
19:41		1389	S1G01-S1G08 Comm Error
19:42		1390	S1G01-S1G08 Comm Error
19:42		1391	S1G01-S1G08 Comm Error
19:43		1392	Gun String 1 no fire
19:43		1392	S3G02 delta -2.1ms

19:43		1393	Gun String 1 no fire
19:44		1395	S1G01-S1G08 Comm Error Volume reduce to 5350 in3
19:45		1396	S1G01-S1G08 Comm Error
19:46		1397	S1G01-S1G08 Comm Error
19:46		1398	S1G01-S1G08 Comm Error
19:47		1399	S1G01-S1G08 Comm Error
19:59		1420	S3G02 delta -2.8ms
20:10		1437	S3G02 delta 2.4ms
20:11		1439	S3G02 delta -2.4 ms
20:18		1449	S3G05 delta -2.3ms
20:18		1449	S4G05 delta -4.2ms
20:20		1452	S3G02 delta 2.5ms
20:18		1450	Activated spares on String 3 and 4 SP1450 total volume is 3660 in3
20:29		1467	S3G02 delta 2.1ms
20:39		1569	String one repaired and deployed dialing in
21:46		1579	String 2 in position and dialing in SP1578
21:46		1580	S2G09 spared S2G05 Active
21:47		1581	String 2 no fire
21:48		1582	S2G05 delta
21:48		1583	S2G05 delta -2.7ms
21:56		1594	String 2 no fire
22:05		1608	S2G01 no fire
22:21		1632	S2G03 no fire
22:22		1633	S2G02 delta timing -2.3 ms
22:26		1639	S2G07 no fire
22:30		1645	S3G02 delta timing -2.5 ms
22:35		1651	String 2 no fire
22:45		1666	String 2 no fire
22:47		1669	S3G02 delta timing -2.4 ms
23:07		1696	S3G02 delta timing -2.8 ms
23:08		1698	String 2 no fire
23:36		1735	S2G04 no fire
23:38		1737	String 2 no fire

23:41		1741	S3G02 delta timing -2.7 ms
23:44		1745	S3G02 delta timing -2.7 ms
23:50		1752	S3G02 delta timing -2.6 ms
23:52		1754	String 2 no fire
23:54		1757	S3G02 delta timing 2.1 ms
23:56		1759	S3G02 delta timing -2.6 ms
00:02		1766	String 2 no fire
00:04		1768	String 2 no fire
00:05		1769	String 2 no fire
00:05		1769	S3G02 delta timing -2.7ms
00:07		1771	S3G02 delta timing 2.2ms
00:13		1778	S3G02 delta timing -2.7ms
00:25		1791	S3G02 delta timing -2.2ms
00:28		1794	S2G2 no fire
00:33		1799	String 2 no fire
00:33		1800	S3G2 delta timing -2.4ms
00:39		1806	S2G7 no fire
00:48		1815	S2G1 no fire
00:49		1816	S2G10 no fire
00:49		1816	S3G2 delta timing -2.2ms
00:52		1819	String 2 no fire
00:52		1819	S3G2 delta timing 2.3ms
00:54		1821	S2G8 no fire
00:54		1821	S3G2 delta timing -2.2ms
01:17		1845	S3G3 no fire
01:21		1849	String 2 no fire
01:25		1853	S3G2 delta timing 2.7ms
01:29		1858	S3G3 no fire
01:34		1863	S3G2 delta timing -2.3ms
01:35		1864	S3G4 no fire
01:36		1865	S3G2 delta timing 2.3ms
01:39		1868	S2G2 no fire
01:47		1876	S3G2 delta timing -3.0ms
01:48		1877	String 2 no fire
01:54		1885	String3 no fire
01:59		1892	String 2 no fire
01:59		1892	S3G2 delta timing -2.5ms
02:04		1897	String 2 no fire
02:12		1907	S3G2 delta timing 2.3ms
02:21		1917	S3G2 delta timing -2.4ms
02:23		1920	S3G2 delta timing -2.1ms

02:32		1929	S2G2 no fire
02:40		1938	String 2 no fire
02:41		1939	S2G2 no fire
02:46		1946	S2G2 no fire
02:49		1949	S2G2 no fire
02:53		1955	String 2 no fire
03:00		1963	String 2 no fire
03:01		1964	S3G2 delta timing -3.0ms
03:07		1972	S2G1 no fire
03:14		1981	String 2 no fire
03:16		1984	S3G2 delta timing -2.8ms
03:18		1986	S2G1,2,3 no fire
03:22		1992	S2G1 no fire
03:24		1994	String 2 no fire
03:26		1997	S2G1 no fire
03:38		2013	String 2 no fire
03:41		2017	String 2 no fire
03:53		2032	String 2 no fire
03:59		2041	String 2 no fire
04:00		2042	S3G2 delta -2.1ms
04:05		2049	S3G02 delta -2.2ms
04:07		2053	S3G02 delta 2.2ms
04:09		2055	S3G02 delta -2.3ms
04:09		2056	S2G8 no fire
04:19		2070	S2G7 no fire
04:26		2080	Gun String 2 no fire
04:31		2087	Gun String 2 no fire
04:44		2106	Gun String 2 no fire
04:46		2108	S3G02 delta -2.1ms
04:51		2116	Gun String 2 no fire
05:06		2140	S3G02 delta -2.9ms
05:08		2143	S2G01 No Fire
05:12		2148	S3G02 delta -2.2ms
05:20		2160	Gun String 2 no fire
05:32		2178	Gun String 2 no fire
05:37		2185	Gun String 2 no fire
05:39		2187	Gun String 2 no fire
05:50		2203	Gun String 2 no fire
06:21		2248	Gun String 2 no fire
06:26		2256	Gun String 2 no fire
06:40		2276	Gun String 2 no fire

[illegible]

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #			FGSP	1001
SP #			LGSP	1575

Line	MGL0906_09
Sequence	013
Direction	89

Streamer Parameters				
	1	2	3	4
Length				
Auxiliaries				
Shotpoint Interval:	100			
Offset CS - CFG	161			
Group Interval:				
Number of channels				
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	No streamer
Total recording delay	
Sample Rate	
Polarity	
Low-Cut	
Hi-Cut	
Tape Format	

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/11/09	05/11/09
Time UTC	14:22	21:32
Volume (cu in.)	6600	6600
Streamer Depth (m)		
Wind (kts)	5	0.8
Sea State (ft)	1-3	3
Water Depth (m)	750	103

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments
Mammal shutdown and gun repairs ended MGL09_06_08 S12 early.Compressors sht down to fix high pressure piping.
11:10 Air pressure back up to 2000 psi.
11:17 Ramping up string 1added G8 to G3 which was running.
11:37 string 1 on. 11:45 String 4 on. 11:52 string 2 on flat line! Comm errors to the RCM.
SOL MGL09_06_09_S013 Lat 25d 30.00820N Lon 122d 39.0186 E@ 14:22 SP1001
18:29 SP 1343 deviation from survey line due to fishing vessel in path 895 meters offline.
Vessel overshot line after adjustment for fishing vessel. Back on survey line 19:23 SP 1397
LAT 25 58 03.124 N LONG 122 24 12.397 E
Line Status:

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

[illegible]

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #			FGSP	1025
SP #			LGSP	1908

Line	MGL0906_10
Sequence	014
Direction	212

Streamer Parameters				
	1	2	3	4
Length				
Auxiliaries				
Shotpoint Interval:	100			
Offset CS - CFG	161			
Group Interval:				
Number of channels				
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	NA
Total recording delay	
Sample Rate	
Polarity	
Low-Cut	
Hi-Cut	
Tape Format	

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/11/09	05/12/09
Time UTC	21:56	11:01
Volume (cu in.)	6600	6600
Streamer Depth (m)	NA	
Wind (kts)	8	15
Sea State (ft)	3	2-4
Water Depth (m)	106	235

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL LAT 25 58 34.700 N LONG 122 22 59.756 E
OBS crossing OBS_NTOU25 SP 1113 @23:27 utc
OBS crossing OBS_NTOU26 SP 1245 @02:06 utc
OBS crossing OBS_NTOU27 SP 1434 @05:21 utc
OBS crossing OBS_NTOU28 SP 1525 @06:30 utc
OBS crossing OBS_NTOU29 SP 1585 @07:14 utc
OBS crossing OBS_NTOU30 SP 1734 @09:00 utc
EOL SP 1908 @11:01 Lat 25D 18M 16.070 N Lon 121d 54m 36.421 E
Line Status:

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

[illegible]

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #			FGSP	1018
SP #			LGSP	1899

Line	MGL0906_11
Sequence	015
Direction	99

Streamer Parameters				
	1	2	3	4
Length				
Auxiliaries				
Shotpoint Interval:	100			
Offset CS - CFG	161			
Group Interval:				
Number of channels				
SOL Cable Noise, μB				
EOL Cable Noise, μB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	NA
Total recording delay	
Sample Rate	
Polarity	
Low-Cut	
Hi-Cut	
Tape Format	

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/12/09	05/13/09
Time UTC	11:03	01:21
Volume (cu in.)	6600	6600
Streamer Depth (m)	NA	
Wind (kts)	8	12
Sea State (ft)	3	3
Water Depth (m)	240	1480

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

[illegible]

Observers Log	
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Vessel	Langseth
Client	Taiger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #	60001		FGSP	1011
SP #	109		LGSP	

Line	MGL0906_12
Sequence	016
Direction	199

Streamer Parameters				
	1	2	3	4
Length			6km.	
Auxiliaries			no	
Shotpoint Interval:			100	
Offset CS - CFG			161	
Group Interval:			12.5	
Number of channels			468	
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	NA
Total recording delay	
Sample Rate	
Polarity	
Low-Cut	
Hi-Cut	
Tape Format	

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/14/09	
Time UTC	12:44	
Volume (cu in.)	6600	
Streamer Depth (m)	9	
Wind (kts)	9	
Sea State (ft)	4-7	
Water Depth (m)	1482	

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

[illegible]

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #	60001	60001	FGSP	1012
SP #	1009	1083	LGSP	1083

Line	MGL0906_12A
Sequence	017
Direction	199

Streamer Parameters				
	1	2	3	4
Length			6km.	
Auxiliaries			no	
Shotpoint Interval:			100	
Offset CS - CFG			161	
Group Interval:			12.5	
Number of channels			468	
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	20 sec
Total recording delay	0
Sample Rate	2 msec
Polarity	
Low-Cut	2 hz/12db/oct
Hi-Cut	206 276 db/oct lin phase
Tape Format	Seg D

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/14/09	05/14/09
Time UTC	13:48	15:39
Volume (cu in.)	6600	6600
Streamer Depth (m)	9	9
Wind (kts)	9	8
Sea State (ft)	4-7	4-7
Water Depth (m)	1482	1537

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

[illegible]

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #	060002	060007	FGSP	1026
SP #	1026	3968	LGSP	3968

Line	MGL0906_12B
Sequence	018
Direction	199

Streamer Parameters				
	1	2	3	4
Length			6km.	
Auxiliaries			no	
Shotpoint Interval:			100	
Offset CS - CFG			161	
Group Interval:			12.5	
Number of channels			468	
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	20 sec
Total recording delay	0
Sample Rate	2 msec
Polarity	
Low-Cut	2 hz/12db/oct
Hi-Cut	206 276 db/oct lin phase
Tape Format	Seq D

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/14/09	05/16/09
Time UTC	23:44	21:58
Volume (cu in.)	6600	6600
Streamer Depth (m)	9	9
Wind (kts)	12	15
Sea State (ft)	3-5	3
Water Depth (m)	1471	4437

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments	
FULL VOLUME 6600 IN3 SPARED S1G04 ACTIVE S1G05. S1G04 HAVING ISSUES PRIOR TO LINE	
SOL LAT 025 08.32795 N LONG 122 45 78577 E	
04:54 OBS crossing IFR2	
07:12 OBS crossing IFR3	
09:35 OBS crossing IFR4	
12:00 OBS crossing IFR5	
15:14 OBS crossing IFR6	
18:02 OBS crossing SP2021 OBS_IRF8	
Reel change 060003 SP 2057 file 1050	
RTNU reboot caused 1 shot to never trigger Missed shot log for 2060, 2061, 2062, 2063	
OBS crossing SP2173 OBS_IRF10	
OBS Crossing SP2232 OBS_NTOU11	
03:57 16 May 09 OBS Crossing IFR 7	SP 2696
OBS crossing IRF 18	@05:00 SP 2769
OBS crossing IRF 19	@07:03 SP 2919
Current pushed streamer 15 degrees causing noise to accur on streamer SP 3765	
OBS Crossing SP_3844 OBS_T4E	
LAT 22 37.25178 N LONG 121 50.57449 E	
Line Status:	

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	FFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
23:34		1019		S1G5 Delta timing 3.4 ms
23:40		1023		S1G5 Delta timing 2.9 ms
23:44		1026		SOL LAT 025 08.32795 N LONG 122 45 78577 E
23:47	21	1028	060002	S1G5 Delta timing 2.5ms
23:57	28	1035	060002	S1G5 Delta timing 3.6 ms
00:04	33	1040	060002	S1G5 Delta timing 2.7 ms
00:10	37	1044	060002	S1G5 Delta timing 2.8ms
00:34	54	1061	060002	S2G5 Delta timing 4.5ms
00:45	62	1069	060002	S1G5 Delta timing 2.7ms
00:52	67	1074	060002	S1G5 Delta timing 2.4ms
01:01	73	1080	060002	S1G5 Delta timing 2.6 ms
01:15	83	1090	060002	S3G2 Delta timing -2.3ms
01:20	86	1093	060002	S1G5 Delta timing 3.3ms
01:38	99	1106	060002	S1G5 Delta timing 2.8ms
01:43	103	1110	060002	S3G2 Delta timing -2.1ms
01:51	109	1116	060002	S3G2 Delta timing -2.6ms
02:03	117	1124	060002	S3G2 Delta timing -2.7ms
02:21	130	1137	060002	S1G5 Delta timing 2.6 ms
02:24	132	1139	060002	S1G3 No fire
02:43	147	1154	060002	S4G9 No fire
02:53	155	1162	060002	S1G3 No fire
03:31	186	1193	060002	S1G3 No fire
04:11	224	1231	060002	S1G5 Delta timing 2.4ms
04:21	234	1241	060002	S1G5 Delta timing 3.4ms
04:54	268	1275	060002	OBS crossing IFR2
05:22	297	1304	060002	S1G3 No fire
05:34	310	1317	060002	Boat crossing no noise evident, small boat hi speed

05:44	319	1326	060002	2nd. Boat crossing no noise evident, small boat hi speed
05:55	333	1339	060002	S1G3 No fire
07:12	417	1424	060002	OBS crossing IFR3
07:43	451	1458	060002	S1G5 Delta timing 2.1 ms
07:46	454	1461	060002	S1G5 Delta timing -2.3 ms
09:35	562	1569	060002	OBS crossing IFR4
12:00	696	1703	060002	OBS crossing IFR5
14:16	815	1822	060003	RMO noise
14:51	846	1853	060003	RMO noise over, moved off head
15:14	866	1873	060003	OBS crossing IFR6
16:39	939	1946	060003	OBS crossing IFR7
18:02	1014	2021	060003	OBS crossing SP2021 OBS_IFR8
18:39	1050	2057	060003	End of reel
18:40	1051	2058	060004	start of reel
18:44		2063		RTNU reboot caused 1 shot to never trigger Missed shot log for 2060, 2061, 2062, 206.
18:47	1058	2066	060004	S4G09,S4G10 NO FIRE COMM ERROR
18:48	1059	2067	060004	S4G09,S4G10 NO FIRE COMM ERROR
18:50	1060	2068	060004	S4G09,S4G10 NO FIRE COMM ERROR
18:51	1061	2069	060004	S4G09,S4G10 NO FIRE COMM ERROR
18:52	1062	2070	060004	POWER CYCLE STRING 4 NO FIRE ALL GUNS
19:16	1088	2096	060004	OBS crossing OBS_IFR9
20:27	1165	2173	060004	OBS crossing SP2173 OBS_IFR10
21:19	1224	2232	060004	OBS Crossing SP2232 OBS_NTOU11
22:35	1313	2320	060004	OBS Crossing SP2320 OBS_NTOU12
23:45	1388	2396	060004	OBS Crossing SP2396 OBS_NTOU13
00:51	1462	2470	060004	OBS Crossing SP2470 OBS_NTOU14
01:55	1538	2546	060004	OBS Crossing SP2546 OBS_NTOU15
02:15	1563	2571	060004	Fwd most channel noise cleared
02:17	1565	2573	060004	S2G10 No fire
02:18	1566	2574	060004	Fwd most channel noise returned
02:25	1575	2583	060004	reel change
02:54	1611	2620	060005	OBS Crossing SP2546 OBS_NTOU15
03:20	1641	2649	060005	Fwd most channel noise cleared
03:24	1646	2654	060005	Fwd most channel noise returned
03:38	1664	2672	060005	Fwd most channel noise cleared
03:39	1665	2673	060005	Fwd most channel noise returned
03:57	1688	2696	060005	OBS Crossing IFR 17
04:46	1749	2757	060005	S3G2 Delta timing-2.3 ms.
05:00	1762	2769	060005	OBS crossing IFR 18
07:03	1911	2919	060005	OBS crossing IFR19
07:33	1947	2955	060006	OBS crossing T5e_06 ~1 km to port.
08:59	2051	3059	060006	Fwd most channel noise cleared
09:00	2053	3061	060006	Fwd most channel noise returned
09:05	2060	3068	060006	OBS crossing IFR 20
09:17	2073	3081	060006	ship noise stbd side ~2mi

09:46	2100	3108	060006	Reel change
10:27	2156	3164	060006	Fwd most channel noise cleared
11:14	2212	3220	060006	OBS crossing IFR 21
11:32	2234	3242	060006	Fwd most channel noise returned
13:27	2363	3371	060006	OBS crossing IFR22
15:28	2512	3514	060006	OBS crossing IFR23
17:15	2625	3633	060006	Reel change
17:45	2658	3666	060007	OBS Crossing IFR24
20:13	2836	3844	060007	OBS Crossing SP 3844 OBS_T4E
20:40	2868	3876	060007	OBS crossing SP3876 OBS_BBOBS26
21:58	2960	3968	060007	EOL LAT 22 37.25178 N LONG 121 50.57449 E

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczyński
Observers	

	SOL	EOL		
Tape #	060008	060009	FGSP	1069
SP #	1069	1011	LGSP	2079

Line	MGL0906_13
Sequence	019
Direction	314

Streamer Parameters				
	1	2	3	4
Length			6km.	
Auxiliaries			no	
Shotpoint Interval:			50	
Offset CS - CFG			161	
Group Interval:			12.5	
Number of channels			468	
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	15s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/16/09	05/17/09
Time UTC	22:25	04:07
Volume (cu in.)	6600	6600
Streamer Depth (m)	9	9
Wind (kts)	10	0
Sea State (ft)	2	1-2
Water Depth (m)	4383	1508

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

[illegible]

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #			FGSP	2211
SP #			LGSP	2285

Line	MGL0906_13A
Sequence	020
Direction	314 Turn (OBS)

Streamer Parameters				
	1	2	3	4
Length			NA	
Auxiliaries			NA	
Shotpoint Interval:			50	
Offset CS - CFG			161	
Group Interval:				
Number of channels				
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	
Total recording delay	
Sample Rate	
Polarity	
Low-Cut	
Hi-Cut	
Tape Format	

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/17/09	05/17/09
Time UTC	05:00	05:42
Volume (cu in.)	6600	6600
Streamer Depth (m)	9	9
Wind (kts)	8.2	15
Sea State (ft)	1-2	1-2
Water Depth (m)	1146	575

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOURCE VOLUME 6600 NORMAL CONFIGURATION GUNS 5 SPARED
Starting line 13A shooting to OBS's during turn.
SOL Lat 23d01.5668 N Lon 121d 27.8840 E @ 05:00 SP 2211
EOL Lat 23d01.7293N Lon 121d 25.17700 @ 05:42 SP2285
SOURCE ONLY
Line Status:

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

[illegible]

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #	060010	060015	FGSP	1010
SP #	1005	5207	LGSP	5207

Line	MGL0906_14
Sequence	021
Direction	118

Streamer Parameters				
	1	2	3	4
Length			6km.	
Auxiliaries			no	
Shotpoint Interval:			50	
Offset CS - CFG			161	
Group Interval:			12.5	
Number of channels			468	
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	15s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/17/09	05/18/09
Time UTC	06:23	05:27
Volume (cu in.)	6600	6600
Streamer Depth (m)	9	9
Wind (kts)	12	16
Sea State (ft)	1-2	3-4
Water Depth (m)	166	5604

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL FSP 1005 FGSP1010 @06:23 Lat 22d59.8924n 121d 24.3808E @06:23
Noise at head, crab angle 35 degrees, SP 250 Reel 060010 , @ 08:28 normal move out.
08:45 noise has moved to mid-streamer. SP 1303, File 296, Reel 060010.
09:57 noise at head current, sp 1473
10:08 Bird 6 at 11 meters SP1500. More noise at head, 700 meters off line, bad currents.
11:34 Reel change 060010-060011
14:15 passed 24 mi limit turned on recordings of TSG, EM-122, Knudsen, Gravity, and Maggie.
15:15 Reel change 060011-060012
18:49 Reel change 060012-060013
22:29 Reel change 060013-060014
05:27 EOL Lat 22d05.90643m N 123d 11.96967m E, SP 5207, File 4199 Reel 060015
05:48 start of turn
Line Status:

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
06:23	0001	1008	0600010	SOL FSP 1005 FGSP1010 @06:23 Lat 22d59.8924n 121d 24.3808E @06:23
06:32	0023	1031	0600010	Spared G5's, G4's online.
06:37	0036	1044	0600010	S2G2 No Fire
06:44	0051	1059	0600010	S2G2 No Fire
06:45	0054	1062	0600010	S2G2 No Fire
06:53	0071	1080	0600010	noise at head of streamer. ~ chan 445.
08:06	211	1220	0600010	noise abated ~chan 445.
08:24	249	1257	0600010	Turn noise at head, strong currents, crabbing 35 degrees.
08:45	296	1303	0600010	08:45 noise has moved to mid-streamer. SP 1303, File 296, Reel 060010.
08:47	302	1310	0600010	noise at head of streamer. ~ chan 445.
08:49	305	1313	0600010	S2 No Fire whole string
08:58	327	1336	0600010	08:45 noise has moved off tail end of streamer.
09:29	406	1414	0600010	S3G01 No Fire
09:57	473	1473	0600010	Noise at the head, current.NMO.
09:56	472	1480	0600010	S4G1 delta timing 2.2 ms.
10:08	492	1500	0600010	Bird 6 at 11 meters depth. Out of spec. Bad currents.
10:53	507	1615	0600010	S2G7 No Fire
11:08	647	1655	0600010	Noise of 09:57 has rolled off tail, second slug of noise at about Chan. 160. NMO.
11:31	691	1699	0600010	Noise cleared. Noisy channel at head quiet.
11:34	700	1708	060011	New Reel 060010 to 060011
11:45	750	1758	0600011	Noisy channel at head back to being noisy.
12:15	842	1850	0600011	Noisy channel at head quiet.
14:16	1237	2235	0600011	S3G1 No Fire
15:15	1400	2508	060012	New Reel 060011 to 060012
15:56	1552	2560	060012	S3G1 No Fire
16:00	1564	2572	060012	S3G1 No Fire
16:05	1582	2589	060012	S3G1 No Fire

16:13	1605	2614	060012	S3G1 No Fire
17:47	1917	2925	060012	S3G1 No Fire
18:38	2084	3093	060012	S3G2 DELTA 2.2 ms
18:40	2090	3099	060012	S3G2 DELTA -2.2ms
18:55	2138	3146	060012	S2G10 No Fire
19:20		3230	060012	noise on streamer fwd end
19:56	2327	3335	060012	S3G2 DELTA 2.6 ms
20:21	2407	3414	060013	S3G2 DELTA -2.3ms
20:35	2452	3461	060013	S2G8 No Fire
21:47	2684	3693	060013	S2G8 No Fire
21:47	2685	3694	060013	S2G8 No Fire
22:11	2760	3769	060013	G3G10 DELTA TIMING -2.2ms
22:11	2761	3770	060013	G3G10 DELTA TIMING 2.1ms
22:49	2880	3888	060014	S2G8 No Fire
22:49	2882	3890	060014	S2G9 No Fire
22:21	2800	3808	060012	REEL CHANGE
23:01	2922	3930	060014	S2G8 No Fire
23:05	2934	3942	060014	S2G8 No Fire
23:14	2965	3973	060014	S2G2 No Fire
23:16	2972	3980	060014	S2G10 No Fire
23:18	2979	3987	060014	S1G10 DELTA TIMING 2.2 ms
23:21	2987	3995	060014	S2G08 No Fire
23:26	3003	4011	060014	S2G10 No Fire
23:37	3040	4048	060014	S2G10 No Fire
23:38	3045	4053	060014	S2G09 No Fire
23:44	3064	4072	060014	S2G06 No Fire
23:52	3089	4097	060014	S2G2 No Fire
00:19	3180	4188	060014	S2G6 No Fire
00:45	3265	4273	060014	S2G10 No Fire
00:49	3278	4286	060014	S1G10 DELTA TIMING 2.1 ms
02:45	3674	4679	060015	S2G8 No Fire
02:51	3694	4699	060015	S2G10 No Fire
03:01	3726	4733	060015	S2G10 No Fire
03:04	3741	4746	060015	S2G9,10 No Fire
03:05	3742	4748	060015	S2G9 No Fire
03:08	3749	4757	060015	S2G10 No Fire
03:10	3754	4763	060015	S2G4 No Fire
03:10	3755	4764	060015	S2G10 No Fire
03:10	3756	4765	060015	S2G8,9,10 No Fire
03:11	3758	4767	060015	S2G9 No Fire
03:11	3760	4769	060015	S2G8 No Fire

03:17	3785	4789	060015	S2G4,9 No Fire
03:18	3786	4790	060015	S2G2,9 No Fire
03:20	3791	4799	060015	S2G8 No Fire
03:21	3792	4801	060015	S2G2 No Fire
03:22	3797	4805	060015	S2G2,4,8,9,10 No Fire
03:23	3799	4807	060015	S2G2,10 No Fire
03:24	3800	4808	060015	S2G4 No Fire
03:24	3802	4811	060015	S2G4,8,10 No Fire
03:24	3803	4812	060015	S2G4 No Fire
03:24	3804	4813	060015	S2G4,6,10 No Fire
03:26	3808	4816	060015	S2G10 No Fire
03:26	3809	4817	060015	S2G4 No Fire
03:27	3813	4821	060015	S2G8,9 No Fire
03:29	3809	4827	060015	S2G8,9 No Fire
03:29	3810	4828	060015	S2G4,7,10 No Fire
03:30	3823	4831	060015	S2G8,9,10 No Fire
03:31	3826	4835	060015	S2G10 No Fire
03:31	3827	4836	060015	S2G6 No Fire
03:33	3834	4842	060015	S2G10 No Fire
03:34	3835	4844	060015	S2G8,10 No Fire
03:35	3840	4849	060015	S2G10 No Fire
03:36	3844	4851	060015	S2G4 No Fire
03:36	3845	4852	060015	S2G8 No Fire
03:37	3846	4855	060015	S2G2 No Fire
03:07	3847	4856	060015	S2G7,8 No Fire
03:42	3863	4871	060015	S2G9 No Fire
03:43	3866	4874	060015	S2G8,9 No Fire
03:43	3867	4875	060015	S2G9 No Fire
03:46	3877	4885	060015	S2G8 No Fire
03:46	3879	4887	060015	S2G1Auto fire at 153.6 ms
03:49	3886	4894	060015	S2G8 No Fire
03:50	3889	4898	060015	S2G1Auto fire at 46076.8 ms
03:52	3896	4904	060015	S2G2 No Fire
03:55	3908	4916	060015	S2G10 No Fire
03:57	3914	4922	060015	S2G10 No Fire
03:57	3915	4923	060015	S2G4,10 No Fire
03:58	3918	4927	060015	S2G6,10 No Fire
03:59	3921	4929	060015	String2 No, Fire Power Cycle
03:59	3922	4930	060015	String2 No Fire
04:03	3932	4941	060015	S2G9 No Fire
04:08	3949	4957	060015	S2G8 No Fire

04:08	3950	4958	060015	S2G9 No Fire
04:08	3951	4959	060015	S2G10 No Fire
04:08	3953	4961	060015	S2G10 No Fire
04:09	3954	4962	060015	S2G2 No Fire
04:12	3964	4972	060015	S2G2 No Fire
04:12	3965	4973	060015	S2G3 Auto fire 26406 ms.
04:13	3970	4978	060015	S2 G8 no fire
04:14	3971	4979	060015	S2G8,G9, no fires
04:15	3976	4982	060015	S2G2,G3 no fire
04:16	3978	4986	060015	S2G10 no fire
04:16	3979	4987	060015	S2G2 No Fire
04:17	3981	4989	060015	S2G9G10, no fires
04:22	3996	5004	060015	S2G8 no fire
04:24	4005	5013	060015	S2G2 no fire
04:25	4006	5014	060015	S2G10 no fire
04:25	4008	5016	060015	S2G10 no fire
04:28	4018	5026	060015	S2G2,4,10 no fire
04:37	4046	5052	060015	S2G8 no fire
04:39	4052	5060	060015	S2G2 no fire
04:44	4066	5074	060015	S2G10 no fire
04:44	4067	5075	060015	S2G10 no fire
04:47	4077	5085	060015	S2G9,10 no fire
04:51	4088	5096	060015	S2G6,8,9,10 no fire
04:55	4100	5108	060015	S2G2 no fire
04:56	4104	5112	060015	S2G9 no fire
04:56	4105	5113	060015	S2G2,8 no fire
04:57	4108	5116	060015	S2G8,9,10 no fire
05:01	4119	5127	060015	S2G10 no fire
05:19	4176	5184	060015	S2G3 no fire
05:26	4196	5204	060015	S2G2,3,10 no fire
05:27	4199	5207	060015	EOL

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #	060017	060018	FGSP	963
SP #	0963	0787	LGSP	1749

Line	MGL0906_15N
Sequence	023
Direction	000 deg.

Streamer Parameters				
	1	2	3	4
Length			6km.	
Auxiliaries			no	
Shotpoint Interval:			50	
Offset CS - CFG			161	
Group Interval:			12.5	
Number of channels			468	
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	15s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/18/09	05/18/09
Time UTC	09:41	14:22
Volume (cu in.)	6600	6600
Streamer Depth (m)	9	9
Wind (kts)	16	6
Sea State (ft)	3-4	1-3
Water Depth (m)	5600	5645

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments
all four strings on. C-Nav stopped on first shot changed to Seq. 23 from 22.
SOL 09:41 Sp963 File # 0001 Reel 060017 Lat 22d 05.7707 N Lon 123d 10.0148 E
14:22 Spectra stopped 14:27 Spectra returned
Line Status:

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #	060018	060020	FGSP	1764
SP #	1764	3406	LGSP	3406

Line	MGL0906_15N
Sequence	024
Direction	000 deg.

Streamer Parameters				
	1	2	3	4
Length			6km.	
Auxiliaries			no	
Shotpoint Interval:			50	
Offset CS - CFG			161	
Group Interval:			12.5	
Number of channels			468	
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	15s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/18/09	05/18/09
Time UTC	14:26	23:56
Volume (cu in.)	6600	6600
Streamer Depth (m)	9	9
Wind (kts)	6	7.4
Sea State (ft)	1-3	3
Water Depth (m)	5645	4984

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments
14:26 SOL MGL09-_06_15N_S024 SP1764 FILE 788
LAT 22 27.4710 N LONG 123 10.0025 E
18:06 REEL Change 060018-060019
22:05 REEL Change 060019-060020
SP 3406 LAST FILE 2430
EOL 23 11 57.159 N 123 10 01.198 E
Line Status:

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
14:22	787	1749	060018	Lost Spectra for
14:26	788	1750	060018	Spectra returned shot point incremented 14 shots
14:26	788	1764	060018	SOLMGL09_06_15N Seq024
14:27	792	1768	060018	S2G10 No fire
14:30	800	1776	060018	S2G10 No fire
14:32	806	1782	060018	S2G10 No fire
14:38	826	1802	060018	S2G10 No fire
15:06	905	1881	060018	S2G10 delta timing 3.7ms
15:06	906	1882	060018	S2G10 delta timing -2.7ms
15:37	995	1971	060018	S2G10 No fire
15:46	1022	1998	060018	S2G10 No fire
16:07	1078	2054	060018	S2G10 No fire
16:09	1084	2060	060018	S2G08 NO FIRE
16:12	1094	2070	060018	S2G09 NO FIRE
16:13	1096	2072	060018	S2G09 NO FIRE
1616	1105	2081	060018	S2G10 No fire
1631	1146	2122	060018	S2G10 No fire
1643	1180	2156	060018	S2G10 No fire
16:53	1210	2186	060018	S2G10 No fire
16:58	1222	2198	060018	S2G09 NO FIRE
16:58	1222	2198	060018	S2G09 NO FIRE
16:58	1224	2200	060018	S2G09 NO FIRE
1728	1311	2287	060018	S2G10 No fire
1730	1336	2292	060018	S2G10 No fire
1741	1346	2322	060018	S2G10 No fire
1746	1358	2334	060018	S2G10 No fire
17:56	1389	2365	060018	S3G02 Delta -2.1ms
18:02	1407	2383	060019	S2G08-S2G10 no fire
18:03	1410	2386	060019	S2G10 no fire
18:04	1412	2388	060019	S2G10 no fire
1811	1432	2408	060019	S2G09/S2G10 NO FIRE
1806	1400	2376	060018	REEL CHANGE
1812	1434	2410	060019	S2G10 no fire
1813	1436	2412	060019	S2G10 No fire
1814	1439	2415	060019	S2G10 No fire
1815	1441	2417	060019	S2G09/S2G10 NO FIRE
1817	1448	2424	060019	DELTA S3G02 -2.2 ms
1818	1450	2426	060019	S2G09 NO FIRE
1819	1453	2429	060019	S2G10 No fire

1824	1469	2445	060019	S2G10 No fire
1830	1486	2462	060019	S2G10 No fire
1831	1488	2464	060019	S2G10 No fire
1832	1490	2466	060019	S2G09/S2G10 NO FIRE
1833	1494	2470	060019	S2G10 No fire
1834	1496	2472	060019	S2G10 No fire
1838	1508	2484	060019	S2G10 No fire
1839	1512	2488	060019	S2G09/S2G10 NO FIRE
1845	1529	2505	060019	S2G10 No fire
1849	1541	2517	060019	S2G10 No fire
1852	1549	2525	060019	S2G10 No fire
1853	1553	2529	060019	S2G08/S2G09/S2G10 NO FIRE
1855	1557	2533	060019	S2G09/S2G10 NO FIRE
1857	1564	2540	060019	S2G10 No fire
1900	1574	2549	060019	S2G09/S2G10 NO FIRE
1909	1597	2573	060019	S3G10 DELTA -2.1 ms
1910	1600	2576	060019	S2G10 No fire
1914	1613	2589	060019	S2G10 No fire
1916	1618	2594	060019	S2G09/S2G10 NO FIRE
1916	1619	2595	060019	S2G10 No fire
1918	1623	2599	060019	S2G10 No fire
1919	1627	2603	060019	S2G10 No fire
19:25	1646	2622	060019	S2G10 No fire
19:30	1662	2638	060019	S2G10 No fire
19:33	1671	2647	060019	S2G09 S2G10 NO FIRE
19:36	1680	2656	060019	S2G09 S2G10 NO FIRE
19:38	1686	2662	060019	S2G10 No fire
1942	1696	2672	060019	S2G09 S2G10 NO FIRE
1944	1702	2678	060019	S2G10 No fire
1950	1720	2696	060019	S2G10 No fire
1952	1727	2703	060019	S2G10 No fire
1956	1737	2713	060019	S2G10 No fire
1957	1742	2717	060019	S2G09 S2G10 No fire
1959	1746	2722	060019	S2G08/S2G09/S2G10 NO FIRE
20:02	1755	2731	060019	S2G09/S2G10 NO FIRE
20:04	1759	2735	060019	S2G10 No fire
20:07	1769	2745	060019	S2G08/S2G10 NO FIRE
20:09	1775	2751	060019	S2G10 No fire
20:10	1778	2754	060019	S2G10 No fire
20:11	1780	2756	060019	S2G10 No fire
20:11	1781	2757	060019	S2G09/S2G10 NO FIRE

20:13	1787	2763	060019	S2G08 NO FIRE
20:19	1803	2779	060019	S2G10 No fire
20:22	1810	2786	060019	S2G09 NO FIRE
20:22	1811	2787	060019	S2G10 No fire
20:34	1843	2819	060019	S2G10 No fire
20:34	1844	2820	060019	S2G10 No fire
20:38	1853	2829	060019	S2G10 No fire
20:40	1861	2837	060019	S2G10 No fire
20:45	1872	2848	060019	S2G10 No fire
20:46	1875	2851	060019	S2G10 No fire
20:51	1888	2864	060019	S2G10 No fire
20:54	1898	2874	060019	S2G09/S2G10 NO FIRE
20:55	1901	2877	060019	S2G10 No fire
20:56	1904	2880	060019	S2G10 No fire
21:00	1914	2890	060019	S2G10 No fire
21:16	1959	2935	060019	S2G10 No fire
21:17	1961	2937	060019	S2G10 No fire
21:19	1966	2942	060019	S2G10 No fire
21:24	1980	2956	060019	S2G10 No fire
21:28	1993	2969	060019	S2G09/S2G10 NO FIRE
21:34	2008	2984	060019	S2G08/S2G09/S2G10 NO FIRE
21:37	2018	2994	060019	S2G10 No fire
21:37	2019	2995	060019	S2G09/S2G10 NO FIRE
21:44	2040	3016	060019	S2G10 No fire
21:55	2072	3048	060019	S2G10 No fire
22:04	2100	3076	060019	S2G10 No fire
22:05	2101	3077	060019	REEL CHANGE
22:14	2126	3103	060020	S2G09/S2G10 NO FIRE
22:17	2136	3113	060020	S2G10 No fire
22:19	2141	3118	060020	S2G09/S2G10 NO FIRE
22:30	2175	3152	060020	S2G10 No fire
22:31	2177	3154	060020	S2G10 No fire
22:34	2186	3163	060020	S2G09 NO FIRE
22:38	2197	3174	060020	S2G10 No fire
22:38	2198	3175	060020	S2G10 No fire
22:39	2202	3179	060020	S2G10 No fire
22:42	2210	3186	060020	S2G10 No fire
22:51	2237	3213	060020	S2G08/S2G09/S2G10 NO FIRE
22:52	2241	3217	060020	S2G10 No fire
22:59	2261	3237	060020	S2G10 No fire
23:05	2279	3255	060020	S2G10 No fire

23:18	2317	3293	060020	S2G09 NO FIRE
23:19	2320	3296	060020	S2G08/S2G09/S2G10 NO FIRE
23:24	2335	3311	060020	S2G08/S2G09/S2G10 NO FIRE
23:27	2342	3318	060020	S2G10 No fire
23:32	2358	3334	060020	S2G10 No fire
23:34	2362	3338	060020	S2G10 No fire
23:36	2370	3346	060020	S2G10 No fire
23:39	2377	2253	060020	S2G09/S2G10 NO FIRE
23:42	2386	3362	060020	S2G08/S2G09/S2G10 NO FIRE
23:46	2399	3375	060020	S2G08/S2G09/S2G10 NO FIRE
23:51	2414	3390	060020	S2G10 No fire
23:56	2429	3405	060020	S3G03 No fire
23:56	2430	3406	060020	EOL 23 11 57.159 N 123 10 01.198 E

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczyński
Observers	

	SOL	EOL		
Tape #	060021	060025	FGSP	899
SP #	898	4331	LGSP	4331

Line	MGL0906_19N
Sequence	025
Direction	288

Streamer Parameters				
	1	2	3	4
Length			6km.	
Auxiliaries			no	
Shotpoint Interval:			50	
Offset CS - CFG			161	
Group Interval:			12.5	
Number of channels			468	
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	15s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/19/09	05/19/09
Time UTC	03:05	23:08
Volume (cu in.)	6600	6600
Streamer Depth (m)	9	10.5
Wind (kts)	14.5	5
Sea State (ft)	3	3
Water Depth (m)	5054	770

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments

SOL LAT23 10 19.690 N LONG 123 12 52.097 E

START OF LINE: REEL# 060021/ FIRST FILE# 00001

04:02 SP 1063 OBS crossing T5E

05:38 SP 1363 OBS crossing T5E_K1

07:01 Reel change 060021 to 060022

09:05 slowing for fishing boat

10:45 Leaving Japanese EEZ entering Tai'wan EEZ

11:04 OBS crossing T5e_03 SP 2245

11:24 Reel change 060022 to 060023 SP 2297 File 1400-1401

11:57 OBS crossing T5e_04 SP 2545 File 1648

14:50 OBS crossing T5e_05 SP 2846 File 1949

15:45 Reel Change 060023 to 060024 @ SP 2997

16:25OBS CROSSING _T5E_6 SP 3146

Line Status:

OBS CROSSING SP3447 OBS T5E 7

OBS CROSSING OBS T5E 8 SP 3747

EOL FILE LAT 23 38.5024 N LONG 121 36.84158 E

Abbreviations

SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
03:05	00001	898	060021	SOL LAT23 10 19.690 N LONG 123 12 52.097 E
03:05	00001	898	060021	S3G2 delta timing at 2.3 ms
03:27	00062	959	060021	S2G10 NO FIRE
03:33	00079	976	060021	S2G10 NO FIRE
03:34	00084	981	060021	S2G9 NO FIRE
04:02	00166	1063	060021	OBS Crossing T5e
04:03	00168	1065	060021	S2G8 NO FIRE
04:04	00172	1069	060021	S2G10 NO FIRE
04:04	00173	1070	060021	S3G2 Delta Timing @-2.1ms
04:06	00178	1075	060021	S2G10 NO FIRE
04:21	226	1123	060021	S2G9,10 no fire
04:22	229	1126	060021	S2G9,10 no fire
04:23	231	1128	060021	S2G9,10 no fire
04:29	251	1148	060021	S2G10 no fire
04:31	255	1152	060021	S2G10 no fire
04:33	264	1161	060021	S2G10 no fire
04:35	268	1165	060021	S2G10, no fireS3G2 delta timing -2.1 ms
04:35	272	1169	060021	S2G8,9,10 no fire
04:36	273	1170	060021	S2G10 no fire
04:37	276	1173	060021	S2G8 no fire
04:41	287	1184	060021	S2G7 auto fire 204.8 ms.
04:43	293	1191	060021	S2G10 no fire
04:43	296	1193	060021	S2G10 no fire
04:50	317	1215	060021	S2G10 no fire
04:51	320	1218	060021	S2G9,10 no fire
04:53	325	1223	060021	S2G10 no fire
04:57	337	1235	060021	S2G9,10 no fire

05:00	346	1244	060021	S2G10 no fire
05:02	355	1253	060021	S2G10 no fire
05:07	371	1268	060021	S2G9,10 no fire
05:10	380	1277	060021	S2G10 no fire
05:11		1280		Bird 14 at 6 meters, ~ 1/2 hour after fishing gear call from bridge. Set B13 to 10m target
05:11	384	1281	060021	S2G10 no fire
05:13	387	1285	060021	S2G9,10 no fire
05:15	395	1293	060021	S2G10 no fire
05:19	407	1304	060021	S2G9,10 no fire
05:22	415	1313	060021	S2G10 no fire
05:38	463	1361	060021	S2G9,10 no fire
05:39	466	1363	060021	OBS Crossing T5e_K1
05:44	483	1380	060021	S2G9,10 no fire
05:45	484	1381	060021	S2G9,10 no fire
06:00	527	1425	060021	S2G10 no fire
06:03	537	1434	060021	S2G10 no fire
06:05	542	1439	060021	S2G10 no fire
06:08	551	1448	060021	S2G10 no fire
06:14	569	1466	060021	S2G10 no fire
06:25	599	1496	060021	S2G9,10 no fire
06:35	627	1524	060021	S2G9,10 no fire
06:41	644	1541	060021	S2G10 no fire
06:42	646	1543	060021	S2G9,10 no fire
06:42	647	1544	060021	S2G10 no fire
07:01	700	1598	060022	Reel Change 060021 to 060022
07:17	746	1643	060022	S2G10 NO FIRE
07:17	747	1644	060022	OBS crossing OBS T5e_01
07:18	749	1646	060022	S4G9,10 no fire
07:19	750	1647	060022	S4G9,10 no fire
07:19	751	1648	060022	S4G9,10 no fire
07:19	752	1649	060022	S4G9,10 no fire
07:20	753	1650	060022	S4G9,10 no fire
07:20	754	1651	060022	S4G9,10 no fire
07:20	755	1652	060022	S4G9,10 no fire
07:21	756	1653	060022	S4G9,10 no fire
07:21	757	1654	060022	S4G9,10 no fire
07:21	758	1655	060022	S4G9,10 no fire
07:22	759	1656	060022	Pwr cycle string 2 no fire whole string
07:23	764	1661	060022	S2G1,2 no fire
07:24	768	1665	060022	S2G2,3 no fire
07:26	773	1670	060022	S2G7 no fire
07:37	805	1701	060022	S2G10 no fire
07:39	811	1707	060022	S2G04 S2G09 no fire
07:51	843	1739	060022	S2G10 NO FIRE
08:10	895	1793	060022	S2G10 NO FIRE

08:13	904	1802	060022	S2G03 NO FIRE
08:22	927	1825	060022	Bird 14 at 6 meters, Bird 15, 16 and 8m, 7m
08:26	938	1836	060022	Bird 14 at 6m, B15, B16 back at 9m, B17 at 10.5m
08:25	934	1832	060022	S2G10 NO FIRE
08:32	954	1852	060022	Bird 14 at 6m, all others 8m+-1m
08:43	983	1881	060022	S2G10 NO FIRE
08:52	1007	1905	060022	S2G01 NO FIRE
08:53	1009	1907	060022	S2G03 NO FIRE
08:57	1019	1917	060022	S2G03 NO FIRE
09:05	1041	~1938	060022	slowing for fishing boat
09:08	1047	1944	060022	OBS crossing T5e_02, also streamer down at head, bird 1 @ 10.6 meters
09:16	1062	1959	060022	S4G01 NO FIRE
09:22	1075	1973	060022	S2G10 NO FIRE
09:28	1091	1989	060022	S2G09 NO FIRE
09:33	1104	2002	060022	S2G09/S2G10 NO FIRE
09:41	1125	2023	060022	S2G10 NO FIRE
09:46	1138	2036	060022	S2G10 NO FIRE
09:50	1149	2046	060022	Whole String NO FIRE
09:52	1156	2053	060022	S2G10 NO FIRE
10:00	1177	2074	060022	S2G10 NO FIRE
10:19	1228	2125	060022	S2G9,10 NO FIRE
10:27	1249	2146	060022	S2G1 DELTA TIMING 7.6 MS G9 NO FIRE
10:27	1250	2147	060022	S2G1 DELTA TIMING -5.2 MS G10 NO FIRE
10:30	1258	2155	060022	S2G3 no fire
10:43	1290	2187	060022	S2G10 no fire
10:49	1308	2205	060022	S2G10 no fire
10:53	1319	2216	060022	S2G10 no fire
11:03	1346	2243	060022	S2G10 no fire
11:04	1348	2245	060022	OBS crossing T5e_03
11:13	1370	2267	060022	S2G9,10 no fire
11:17	1383	2280	060022	S2G8,9,10 no fire
11:19	1387	2284	060022	S2G10 no fire
11:22	1396	2293	060022	S2G10 no fire
11:24	1400	2297	060023	Reel Change 060022 to 060023
11:25	1503	2300	060023	S2G10 no fire
11:25	1504	2301	060023	S2G3 no fire
11:30	1418	2315	060023	S2G10 no fire
12:09	1520	2417	060023	S2G3 no fire
12:20	1550	2447	060023	S2G3 no fire
12:22	1554	2451	060023	S2G3 no fire
12:23	1556	2453	060023	S2G10 no fire
12:24	1559	2456	060023	S2G9,10 no fire
12:29	1574	2471	060023	S2G8 no fire
12:50	1628	2525	060023	S2G2 no fire
12:57	1648	2545	060023	OBS crossing T5e_04
13:03	1662	2559	060023	S2G4 no fire
13:20	1705	2602	060023	S2G8,9,10 no fire
13:23	1713	2610	060023	S2G10 no fire
13:31	1732	2629	060023	S2G4 no fire

13:34	1740	2637	060023	S2G4 no fire
13:35	1743	2640	060023	Birds 8 and 15 rose to 7 meters and 15 went back down, ship crabbing 20 degrees.
13:39	1753	2650	060023	S2G10 no fire
13:42	1760	2657	060023	S2G4 no fire
13:50	1782	2679	060023	S2G9 NO FIRE
13:59	1806	2703	060023	S2G4 no fire
14:10	1833	2730	060023	S2G10 no fire
14:10	1834	2731	060023	S2G6 no fire
14:14	1846	2743	060023	S2G7 no fire
14:29	1887	2784	060023	S2G1 no fire
14:47	1940	2837	060023	S2G9,10 no fire
14:47	1941	2838	060023	S2G9,10 no fire
14:48	1942	2839	060023	S2G9,10 no fire
14:48	1943	2840	060023	S2G9,10 no fire
14:49	1944	2841	060023	S2G9,10 no fire
14:49	1945	2842	060023	S2G9,10 no fire
14:49	1946	2843	060023	S2G9,10 no fire
14:49	1947	2844	060023	S2G9,10 no fire
14:50	1949	2846	060023	OBS crossing T5e_05
14:50	1951	2848	060023	S4 No fire whole string
15:05	1996	2893	060023	S2G9,10 no fire
15:07	2002	2899	060023	S2G10 no fire
15:12	2017	2914	060023	S2G7 no fire
15:29	2050	2967	060023	S2G3 no fire
15:45	2100	2997	060024	Reel Change 060023 to 060024
15:46	2122	3019	060024	S2G9 NO FIRE
15:52	2140	3037	060024	S2G10 no fire
15:54	2148	3045	060024	S2G10 no fire
15:58	2162	3059	060024	S2G10 no fire
16:02	2172	3069	060024	S2G10 no fire
16:03	2176	3073	060024	S2G9,10 no fire
16:06	2188	3085	060024	S2G10 NO FIRE
16:14	2213	3110	060024	S4G09 NO FIRE
16:15	2218	3115	060024	S2G9,10 no fire
16:27	2256	3153	060024	S2G10 NO FIRE
16:29	2263	3160	060024	S203 NO FIRE
16:25	2249	3146	060024	OBS CROSSING _T5E_6
16:49	2326	3223	060024	S2G10 DELTA -2.5ms
16:55	2345	3242	060024	S203 NO FIRE
17:27	2442	3339	060024	S203 NO FIRE
17:28	2444	3341	060024	S201 NO FIRE

17:29	2448	3345	060024	S203 NO FIRE
17:31	2455	3352	060024	S203 NO FIRE
17:39	2478	3375	060024	S203 AUTO FIRE
17:43	2492	3389	060024	S204 NO FIRE
17:53	2521	3418	060024	S2G02 NO FIRE
17:55	2526	3423	060024	S2G10 no fire
18:02	2550	3447	060024	OBS CROSSING SP3447 OBS_T5E_7
18:10	2574	3471	060024	S2G03 NO FIRE
18:42	2668	3565	060024	S3G02 NO FIRE
18:46	2682	3579	060024	S3G02 NO FIRE
18:52	2698	3595	060024	S2G03 NO FIRE
18:56	2712	3609	060024	hydrographic data logging secured 24 NM
19:33	2823	3719	060025	S2G02 NO FIRE
19:37	2833	3730	060025	S2G03 NO FIRE
19:42	2850	3747	060025	OBS CROSSING OBS_T5E_8 SP 3747
19:42	2849	3746	060025	S2G09 NO FIRE
19:29	2800	3697	0600024	REEL CHANGE
19:45	2857	3754	060025	S2G04/S2G06 NO FIRE
20:04	2914	3881	060025	S2G01 NO FIRE
20:05	2918	3814	060025	S2G03 NO FIRE
20:15	2948	3845	060025	S3G02 NO FIRE
20:18	2958	3855	060025	S2G10 NO FIRE
20:21	2967	3864	060025	S2G03 NO FIRE
20:24	2976	3873	060025	S2G7 no fire
20:53	3065	3962	060025	S2G10 NO FIRE
21:09	3111	4008	060025	S204 NO FIRE
21:22	3150	4047	060025	OBS CROSSING OBS_T5E_9 SP 4047
21:31	3177	4074	060025	S2G03 NO FIRE
21:43	3210	4107	060025	S204 NO FIRE
21:47	3223	4120	060025	S2G02 NO FIRE
21:48	3225	4122	060025	S2G10 NO FIRE
21:52	3237	4134	060025	S2G03 NO FIRE
21:53	3241	4138	060025	S2G02 NO FIRE
22:00	3260	4157	060025	S2G10 NO FIRE
22:04	3272	4169	060025	S2G03 NO FIRE
22:15	3304	4201	060025	S2G03 NO FIRE
22:20	3318	4215	060025	S204 NO FIRE
22:29	3342	4239	060025	S2G10 no fire
22:31	3345	4246	060025	OBS CROSSING OBS_T5E_10 SP 4246
22:34	3353	4254	060025	S2G03 NO FIRE
22:41	3375	4276	060025	S2G03 NO FIRE
22:52				BIRD DEPTH SET TO 10.5 METER
22:55				BIRDS AT DEPTH 10.5 EXCEPT AB08,AB14 AB15
23:08	3434	4331	060025	EOL MGL0906_19N SEQ 025
				LAT 23 38.50240 N LONG 121 36.84158 E

Observers Log	
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Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

Line	MGL0906_20
Sequence	026
Direction	108

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	15s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

PROMAX - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

[illegible]

General / Line Comments
SOL LAT 23 37.59546 N LONG 121 37.01481 E
00:07 Change streamer to nominal depth 9r
00:45 veered off line to avoid fishing vesse
00:00 sp 1026 OBS crossing OBS T5E 10
01:31 SP 1105 OBS crossing OBS T5e 09
03:44 SP 1225 OBS crossing OBS T5e 08
05:35 SP 1345 OBS crossing OBS T5e 07
07:26 SP 1466 OBS crossing OBS T5e 06
09:15 SP 1586 OBS crossing OBS T5e 05
10:55 SP 1697 Reel Change 060026 to 060027
11:03 SP 1706 OBS crossing OBS T5e 04
12:54 SP 1826 OBS crossing OBS T5e 03
14:34 Lost compressors. Down to 1 gun SIG1
14:47 SP 1947 OBS crossing OBS T5e 02
14:48 Ramping up 2ed gun on
15:18 Finished ramping all 4 strings or
18:44 OBS CROSSING OBS T5E K1 SP2179
20:15 DISABLED AUTOFIRE STRING 2 RECEIVING FALSE ALERTS
Line Status:

Reel Change 060027 to 060028	
OBS CROSSING SP2443 OBS_T5E_K3	
Bird 13 raised to 4.1 meters due to fishing gear SP 250t	
OBS CROSSING OBS_T5E_K4 SP 2543	
OBS CROSSING OBS_T5E_K5 SP 2659	
04:10 OBS CROSSING OBS_T5E_K6 SP 2783	
04:36 Start turn	
05:50 EOL SP2826 file B29 LAT 23 37.5955 N LONG 123 37.0148 E	

Time UTC	FILE	SP	Tape	Description
23:29	0001	998	060026	SOL LAT 23 37.59546 N LONG 121 37.01481 E
23:30	0002	999	060026	S2G10 No Fire
23:31	0003	1000	060026	S2G10 No Fire
23:39	0011	1008	060026	S2G10 No Fire
00:03	0033	1029	060026	S2G03/S2G03 No Fire
00:07		1033		Change streamer to nominal depth 9m
00:08	0037	1034	060026	S2G6 No Fire
00:21	0047	1044	060026	S2G10 No Fire
00:36	0060	1057	060026	S2G3,G9 No Fire
00:45			060026	veered off line to avoid fishing vessel
00:57	0078	1075	060026	S2G3 No Fire
01:05	0085	1082	060026	String 2 No Fire
01:09	0089	1086	060026	S2G3 No Fire
01:31	0108	1105	060026	OBS crossing T5e_09
01:37	0113	1110	060026	S2G4 No Fire
02:05	0138	1135	060026	S2G7 No Fire
02:37	0167	1164	060026	S2G1 No Fire
02:53	0181	1178	060026	S4G2 No Fire
03:21	0206	1203	060026	S4G2 No Fire
03:23	0208	1205	060026	S4G2 No Fire
03:30	0214	1211	060026	S2G3 No Fire
03:34	0228	1225	060026	OBS crossing T5e_08
03:47	0231	1228	060026	S2G3 No Fire
03:52	0236	1233	060026	S2G3 No Fire
04:02	0246	1243	060026	S2G9,10 No Fire
04:33	248	1276	060026	S2G10 No Fire
05:11	320	1318	060026	S4G2 No Fire
05:30	336	1333	060026	Starting repairs to streamer, cutting fishing gear off. B2-11 +15 fin.
05:35	347	1345	060026	OBS crossing T5e_07
05:36	348	1346	060026	S2G7 No Fire
05:56	369	1367	060026	S2G3 No Fire
06:52	431	1429	060026	set birds 7-11 to 9m
06:55	434	1432	060026	b18 at 11m
06:57	436	1435	060026	set all birds to 9m
06:59	438	1436	060026	b18 bak in spec at 9m
07:12	453	1451	060026	all birds at depth 9m+-1m
07:16	459	1455	060026	S2G07 no fire
07:26	469	1466	060026	OBS crossing T5e_06
08:05	512	1509	060026	S2G3 No Fire

08:49	560	1557	060026	S2G10 No Fire
09:06	579	1576	060026	S2G10 No Fire
09:08	581	1578	060026	S2G3 No Fire
09:15	589	1586	060026	OBS crossing T5e_05
09:18	592	1589	060026	S2G10 No Fire
09:22	596	1593	060026	S4G3 No Fire
10:03	642	1639	060026	String 2 NO FIRE
10:18	659	1656	060026	String 2 No Fire
10:31	673	1670	060026	S2G03/S2G07/S2G09/S2G10 No Fire
10:47	691	1688	060026	S2G09 No FIRE
10:55	700	1697	060027	Reel Change 060026 to 060027
10:58	703	1700	060027	S2G01 no fire
11:01	707	1704	060027	S2G09/S2G10 No FIRE
11:03	709	1706	060027	OBS crossing T5e_04
11:03	709	1706	060027	S2G4 No Fire
11:06	712	1709	060027	S2G3 No Fire
11:16	723	1720	060027	S2G06/S2G07/S2G08/S2G09/S2G10 NO FIRE
11:22	729	1726	060027	S2G06/S2G08/S2G09/S2G10 NO FIRE
11:26	733	1730	060027	S4G01 NO FIRE
11:36	744	1741	060027	S2G01/S2G03/S2G04/S2G10 NO FIRE
11:43	751	1748	060027	S2G09/S2G10 NO FIRE
11:48	756	1753	060027	S2G10 No Fire
11:49	758	1755	060027	S2G08/S2G09/S2G10 NO FIRE
11:57	766	1763	060027	S2G08 AUTO FIRE AT 50988.8 ms
12:28	800	1797	060027	S4G4 NO FIRE
12:35	808	1805	060027	S4G2 No Fire
12:47	821	1818	060027	S2G9 No Fire
12:51	826	1823	060027	S2G10 No Fire
12:54	829	1826	060027	OBS crossing T5e_03
12:57	832	1829	060027	S2G10 No Fire
12:58	833	1830	060027	S4G3 No Fire
13:02	837	1834	060027	S2G8,G9 NO FIRE G10 DELTA TIMING -5.6ms
13:03	838	1835	060027	S2G10 DELTA TIMING 4.5ms
13:14	851	1848	060027	S2G6 No Fire
13:21	858	1855	060027	STRING 2 No Fire
13:28	865	1862	060027	S2G1 No Fire
13:32	870	1867	060027	S2G10 DELTA TIMING -7.2ms
13:33	871	1868	060027	S2G10 DELTA TIMING 5.9ms
13:34	872	1869	060027	S2G7,G9 No Fire
13:40	879	1876	060027	S2G10 No Fire
14:18	922	1917	060027	S2G10 No Fire

14:20	924	1919	060027	S2G10 No Fire
14:21	925	1920	060027	S2G10 No Fire
14:25	929	1924	060027	S2G6,7 No Fire
14:34	939	1934	060027	S2G09 NO FIRE ,Last full volumn shot, compressors went down.
14:47	950	1947	060027	OBS crossing T5e_02
14:48	953	1950	060027	Ramping up added gun S1G8
15:18	981	1978	060027	Finished ramping 4 strings on
15:21	984	1981	060027	S2G6 No Fire
15:56	1017	2014	060027	S4G1 No Fire
16:21	1042	2039	060027	S2G9,10 No Fire
16:23	1044	2041	060027	S2G7 No Fire
16:28	1049	2046	060027	S2G8,9 No Fire
16:30	1051	2048	060027	S2G1,9,10 No Fire
16:38	1058	2055	060027	S2G10 No Fire
16:39	1059	2056	060027	S2G10 No Fire
16:45	1065	2062	060027	S2G8,9,10 No Fire
16:49	1069	2066	060027	OBS crossing T5E_01
17:34	1115	2112	060027	S2G09 NO FIRE
17:48	1128	2125	060027	S4G04 NO FIRE

17:58	1138	2135	060027	S2G09 NO FIRE
18:03	1143	2140	060027	S2G10 NO FIRE
18:14	1153	2150	060027	S2G01 S2G09 S2G09 S2G10 S4G02 NO FIRE
18:18	1157	2154	060027	S2G09 S2G10 NO FIRE
18:21	1160	2157	060027	S4G02 NO FIRE
18:33	1172	2169	060027	S2G10 No Fire
18:34	1173	2170	060027	S4G02 NO FIRE
18:35	1174	2171	060027	S2G10 No Fire
18:42	1180	2177	060027	S4G04 NO FIRE
18:44	1152	2179	060027	OBS CROSSING OBS_T5E_K1
18:50	1188	2185	060027	S2G09 S2G10 NO FIRE
18:54	1192	2189	060027	S2G10 No Fire
19:01	1199	2196	060027	S2G07 Auto Fire at 203.2ms
19:05	1203	2200	060027	S4G02 NO FIRE
19:14	1212	2209	060027	S2G01 S2G08 NO FIRE
19:16	1214	2211	060027	S2G10 No Fire
19:17	1215	2212	060027	S4G02 NO FIRE
19:20	1218	2215	060027	S4G02 NO FIRE
19:23	1221	2218	060027	S2G10 No Fire
19:25	1223	2220	060027	S2G10 No Fire
19:27	1225	2222	060027	S2G07 Auto Fire at 203.2ms
19:29	1227	2224	060027	S4G04 NO FIRE
19:34	1233	2230	060027	S2G07 Auto Fire at 203.2ms
19:36	1235	2232	060027	S3G02 delta -2.5ms
19:37	1236	2233	060027	S2G04 Auto Fire at 203.2 ms
19:37	1236	2233	060027	S2G10 No Fire
19:42	1241	2238	060027	S4G02 NO FIRE
19:44	1243	2240	060027	S2G08-S2G10 no fire
19:45	1244	2241	060027	S2G02 auto fire at 203.2ms
19:47	1246	2243	060027	S4G02 NO FIRE
19:51	1250	2247	060027	S4G04 NO FIRE
19:52	1251	2248	060027	S4G04 NO FIRE
19:56	1259	2256	060027	S2G08 auto fire at 203.2 ms
20:01	1260	2257	060027	S2G01/S2G08/S2G09 NO FIRE
20:02	1261	2258	060027	S2G06 NO FIRE
20:05	1264	2261	060027	S2G10 No Fire
20:10	1269	2266	060027	S2G10 No Fire
20:14				DISABLED AUTOFIRE STRING 2 RECEIVING FALSE ALERTS
20:16	1275	2272	060027	S2G10 No Fire
20:21	1280	2277	060027	S2G08/S2G09/S2G10 NO FIRE
20:33	1292	2289	060027	S2G09/S2G10 NO FIRE

20:37	1296	2293	060027	S2G01/S2G09/S2G10 NO FIRE
20:39	1298	2295	060027	S2G09/S2G10 NO FIRE
20:45	1304	2301	060027	S2G09 NO FIRE
20:48	1308	2305	060027	S4G04 NO FIRE
20:50	1310	2307	060027	S2G06/S2G09/S2G10 NO FIRE
20:56	1316	2313	060027	S2G08/S2G09/S2G10 NO FIRE
21:02	1322	2319	060027	S2G10 No Fire
21:09	1330	2327	060027	S2G08/S2G09/S2G10 NO FIRE
21:14	1335	2332	060027	S2G10 No Fire
21:20	1341	2338	060027	S2G10 No Fire
21:23	1344	2341	060027	S2G10 No Fire
21:33	1354	2351	060027	S2G09/S2G10 No FIRE
21:36	1357	2354	060027	S2G09 NO FIRE
21:37	1358	2355	060027	S2G08/S2G09/S2G10 NO FIRE
21:39	1360	2357	060027	S2G10 No Fire
21:59	1380	2377	060027	S2G09/S2G10 No FIRE
22:01	1382	2379	060027	S2G09 NO FIRE
22:02	1384	2381	060027	S2G10 No Fire
22:12	1394	2391	060027	S2G10 No Fire
22:16	1400	2397	060028	Reel Change 060027 to 060028
22:28	1412	2409	060028	S2G10 No Fire
22:31	1415	2412	060028	S2G10 No Fire
22:45	1430	2427	060028	S2G10 No Fire
22:46	1431	2428	060028	S2G09/S2G10 NO FIRE
22:49	1435	2432	060028	S2G08 NO FIRE
22:54	1440	2437	060028	S2G09/S2G10 NO FIRE
22:55	1441	2438	060028	S2G10 No Fire
22:56	1442	2439	060028	S2G10 No Fire
22:59	1446	2433	060028	OBS CROSSING SP2443 OBS_T5E_K3
23:08	1466	2453	060028	S2G10 No Fire
23:10	1468	2455	060028	S2G10 No Fire
23:12	1470	2457	060028	S2G10 No Fire
23:17	1465	2462	060028	S2G10 No Fire
23:20	1469	2466	060028	S2G09/S2G10 NO FIRE
23:22	1471	2468	060028	S2G01/S2G10 NO FIRE
23:37	1487	2484	060028	S2G10 No Fire
23:41	1491	2488	060028	S2G09/S2G10 NO FIRE
23:43	1493	2490	060028	S3G02 DELTA -2.1ms
23:50	1501	2498	060028	S2G10 No Fire
23:56	1507	2504	060028	S3G02 delta -2.1ms
00:00	1512	2509	060028	S4G02 NO FIRE

00:17	1531	2528	060028	S2G09/S2G10 NO FIRE
00:23	1538	2535	060028	S2G09/S2G10 NO FIRE
00:30	1545	2542	060028	S2G10 No Fire
00:31	1546	2543	060028	OBS CROSSING OBS_T5E_K4
00:35	1551	2548	060028	S2G10 No Fire
00:36	1552	2549	060028	S2G10 No Fire
00:42	1558	2555	060028	S2G09/S2G10 NO FIRE
01:03	1584	2579	060028	S2G09/S2G10 NO FIRE
01:24	1607	2602	060028	S2G1,4,6,8,9,10 No Fire
01:25	1608	2603	060028	S2G1,9,10 No Fire
01:27	1610	2605	060028	S4G3 No Fire
01:32	1615	2610	060028	S2G9,10 No Fire
01:36	1620	2615	060028	S2G9,10 No Fire
01:43	1628	2623	060028	S4G3 No Fire
01:44	1629	2624	060028	S2G10 No Fire
02:00	1646	2641	060028	S2G10 No Fire
02:12	1660	2655	060028	S2G10 No Fire
02:17	1663	2659	060028	OBS CROSSING OBS_T5E_K5 SP 2659
02:22	1668	2565	060028	S2G10 No Fire
02:23	1670	2666	060028	S4G3 No Fire
02:24	1682	2678	060028	S2G10 No Fire
02:41	1690	2686	060028	S2G1,2,10 No Fire
03:08	1720	2716	060028	S2G7 No Fire
03:09	1721	2717	060028	S2G1 No Fire
03:31	1745	2741	060028	S2G9,10 No Fire
03:37	1752	2748	060028	S2G9 delta -7.2ms,S2G10 No Fire
03:38	1753	2749	060028	S2G9 delta 6.8m
03:44	1769	2755	060028	S2G10 No Fire
04:01	1778	2774	060028	S2G10 No Fire
04:10	1787	2783	060028	OBS CROSSING OBS_T5E_K6 SP 2783
04:11	1789	2785	060028	S2G10 No Fire
04:17	1795	2791	060028	S4G4 No Fire
04:36	1819	2816	060028	Start turn
04:50	1829	2826	060028	EOL SP 2826

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #	060029	060029	FGSP	1031
SP #	1031	1703	LGSP	1703

Line	MGL0906_021
Sequence	027
Direction	180

Streamer Parameters				
	1	2	3	4
Length			6600	
Auxiliaries				
Shotpoint Interval:			50	
Offset CS - CFG			161	
Group Interval:			12.5	
Number of channels			468	
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	15s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/21/09	05/21/09
Time UTC	04:58	09:19
Volume (cu in.)	6600	6600
Streamer Depth (m)	9	9
Wind (kts)	15	12
Sea State (ft)	3-5	2-4
Water Depth (m)	6310	5979

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments							
SOL LAT 22 59.6673 N LONG 123 44.0014 E							
Fishing gear hung on streamer, birds 14-16 out of spec							
04:58 SOL SP 1031 File 1030 @04:58							
09:19 EOL and SOT, SP1703		File 0673					
Lat 22d 41.4234m N Lon 123d 45.0049m E							
Line Status:							

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
SOL	0001	1031	060029	Fishing gear hung on streamer: Bird 13 at 2.8m, 14 at 4.8, 15 at 7.5
04:58	0001	1031	060029	SOL SP 1031
05:08	0028	1058	060029	S2G10 no fire
05:09	0030	1060	060029	S2G9,10 no fire
05:13	0041	1071	060029	S4G1 no fire
05:14	0044	1074	060029	S4G3 no fire
05:18	0055	1085	060029	S4G3 no fire
05:20	0059	1089	060029	S4G4 no fire
05:21	0061	1091	060029	S4G1 no fire
05:21	0062	1092	060029	S2G9,10 no fire
05:21	0063	1093	060029	S2G10 no fire
05:25	0071	1101	060029	S2G8,9,10 no fire
05:26	0075	1105	060029	S4G4 no fire
05:27	0076	1106	060029	S4G2 no fire
05:30	0084	1114	060029	S4G2 no fire
05:30	0085	1115	060029	S4G2 no fire
05:31	0087	1117	060029	S2G8,9,10 no fire
05:35	0098	1128	060029	S4G4 no fire
05:38	0105	1135	060029	S4G2 no fire
05:40	0110	1140	060029	S2G10 no fire
05:46	0127	1157	060029	S2G10 no fire
05:49	0135	1165	060029	S4G2 no fire
05:54	0147	1177	060029	S2G9,10 no fire
06:06	0179	1209	060029	S2G1 no fire
06:07	0181	1211	060029	S4G4 no fire
06:10	0189	1219	060029	S2G10 no fire
06:24	0225	1255	060029	S4G2 no fire
06:29	0239	1269	060029	S2G9 no fire
06:35	0255	1285	060029	S2G9, 10 no fire
06:45	0281	1311	060029	S4G4 no fire
06:45	0283	1313	060029	S2G10 no fire
06:46	0285	1315	060029	S4G4 no fire
06:48	0289	1319	060029	S4G4 no fire
06:49	0294	1324	060029	S3G2 Delta Timing 2.3m:
07:02	0328	1358	060029	S2G9 no fire
07:03	0330	1360	060029	S2G10 no fire
07:14	0358	1388	060029	S2G10 no fire
07:16	0364	1394	060029	S2G10 no fire
07:17	0367	1397	060029	S2G6,7,8 no fire
07:20	0376	1406	060029	S2G3 no fire
07:22	0380	1410	060029	S3G2 Delta Timing 2.6m:
07:22	0381	1411	060029	S3G2 Delta Timing -2.4m:
07:29	0399	1429	060029	S2G10 no fire
07:35	0413	1443	060029	S2G9 no fire
08:05	0491	1521	060029	S2G10 no fire
08:09	0500	1530	060029	S2G10 no fire
08:10	0502	1532	060029	S2G10 no fire
08:13	0510	1540	060029	S2G01/S2G04/S2G08/S2G09/S2G10 no fir
08:16	0518	1548	060029	S2G09 no fire
08:17	0521	1551	060029	S2G10 no fire
08:23	0541	1571	060029	S2G10 no fire
08:28	0548	1578	060029	S2G10 no fire
08:35	0564	1594	060029	S2G01/S2G04/S2G6/S2G08/S2G09/S2G10 no fir
08:40	0578	1608	060029	S2G10 no fire
08:47	0594	1624	060029	S2G10 no fire
09:01	0629	1659	060029	S2G08/S2G09/S2G10 no fir
09:05	0640	1670	060029	S2G9,10 no fire
09:06	0641	1671	060029	S3G2 Delta timing 2.1 ms
09:06	0643	1673	060029	S2G1,9,10 no fire
09:19	0673	1703	060029	EOL

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #	060030	060032	FGSP	990
SP #	988	3054	LGSP	3054

Line	MGL0906_016
Sequence	028
Direction	271

Streamer Parameters				
	1	2	3	4
Length			6000	
Auxiliaries				
Shotpoint Interval:			125	
Offset CS - CFG			161	
Group Interval:			12.5	
Number of channels			468	
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	15s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/21/09	05/23/09
Time UTC	12:19	05:23
Volume (cu in.)	6600	6600
Streamer Depth (m)	9	9
Wind (kts)	6	6
Sea State (ft)	2-4	1-2
Water Depth (m)	6027	1048

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments: From last line, Birds 13,14, out of spec. 13= 3.1m, 14=6.2 m., fishing gear.

12:19 SOL FGSP 990 file 0003 Lat 22d 43.0684 N 123d 46.09438 E
 15:15 SP 1140, Strange noise on the 'Rest Period' of the Syntrac display. A wave starting from the head end of the channel
 30 to 40% of full scale. It is progressing thru the channels, advancing shot by shot. See log book for drawir
 17:10 bird 13 @2.2m bird 14@3.7 m bird 15@7.2 all others within spec
 17:20 BIRD 12 @8.1 bird 13 @1.6m bird 14@32.5 m bird 15@6.4 all others within spec
 17:35 BIRD 12 @8.1/BIRD 13 @1.1/BIRD 14@1.4/BIRD15@4.2/BIRD 16@8.2
 18:15 Bird adjustment appears to have brought bird13 (3.8meters)and bird14 down(6.9meters)
 03:34OBS CROSSING OBS_T4E_02 SP 1682
 03:42 Reel change 060030 to 060031
 06:34 OBS Crossing OBS_T4e_03 SP 1802
 08:56 OBS CROSSING OBS_T4E_04 SP 1922
 09:54 Passes thru current and streamer at birds 10-15 dropped out of spec to ~14 meters, propagated thru to bird 19.
 11:03OBS CROSSING OBS_T4E_05 SP 2042
 13:10OBS CROSSING OBS_T4E_06 SP 2162
 15:19 OBS CROSSING OBS_T4E_07 SP 2282
 18:00 OBS CROSSING OBS_T4E_08 SP2403
 20:01 OBS CROSSING OBS_T4E_09 SP 2523
 20:33 OBS CROSSING OBS_BBOBS26 SP 2559
 21:00OBS CROSSING OBS_BBOBS26 SP 2559
 Line Status:
 21:53 Digishot hardware failure blue screen displayed reboot system gun string 2 random no fires configuration issue
 23:20 SP2736 configuration issue resolved.
 23:47OBS CROSSING OBS_T4E_11 SP 2763
 03:45 OBS CROSSING OBS_T4E_13 SP2964
 05:00 Turning to Port to avoid fishing gear, SP 3037.
 05:07OBS CROSSING OBS_T4E_12 SP3044
 05:23 EOL SP 3054 Lat 22d 42.3795 N Lon 121d 15.1263 E

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
12:19	0003	990	060030	SOL MGL09_06_016_S028 FGSP 990
12:26	0011	998	060030	S2G10 no fire
12:34	0019	1006	060030	S2G3,G5,G10 no fire
12:41	0026	1013	060030	S2G9,G10 no fire
12:44	0029	1016	060030	S2G10 no fire
12:46	0031	1018	060030	S2G5,G10 no fire
12:56	0041	1028	060030	S2G10 no fire
12:57	0042	1029	060030	S2G5 no fire
13:03	0047	1034	060030	S2G9,G10 no fire
13:04	0048	1035	060030	S2G7 no fire
13:06	0050	1037	060030	S2G9 no fire
13:07	0051	1038	060030	S2G5 no fire
13:08	0052	1039	060030	S2G2,G9 no fire
13:13	0057	1044	060030	S2G2,G9 no fire
13:23	0067	1054	060030	S2G3,G5,G8,G9,G10 no fire
13:36	0079	1066	060030	S2G8,G9,G10 no fire
13:42	0085	1072	060030	S2G1,G5 no fire
13:50	0092	1079	060030	S2G10 no fire
13:51	0093	1080	060030	S2G10 no fire
13:54	0096	1083	060030	S2G10 no fire
13:57	0099	1086	060030	S2G8,G9,G10 no fire
14:03	0105	1092	060030	S2G8,G9,G10 no fire
14:06	0108	1095	060030	S2G9,G10 no fire
14:11	0112	1099	060030	S2G9,G10 no fire
14:17	0118	1105	060030	S2G9,G10 no fire
14:20	0121	1108	060030	S2G3,G5,G8,G6,G9,G10 no fire
14:22	0123	1110	060030	S2G10 no fire
14:28	0128	1115	060030	S2G3,G5,G9,G10 no fire
14:32	0131	1118	060030	S2G5,G10 no fire
14:42	0139	1126	060030	S2G3 no fire
14:42	0140	1127	060030	S2G9,G10 no fire
14:44	0141	1128	060030	S2G5,G9,G10 no fire
14:48	0145	1132	060030	S2G8 no fire
14:51	0147	1134	060030	S2G5,G9,G10 no fire
14:52	0148	1135	060030	S2G8,G9,G10 no fire
15:01	0154	1142	060030	S2G5 no fire
15:06	0158	1146	060030	S2G3,G5,G8,G6,G9,G10 no fire
15:14	0165	1152	060030	S2G5 no fire
15:15	0166	1153	060030	S2G2,3,5,6,7,8,9,10 no fire

15:18	0168	1155	060030	S2G8,9,10 no fire.
15:39	0183	1170	060030	S2G8,G9,G10 no fire
15:41	0184	1171	060030	S2G5,G9 no fire
16:07	202	1189	060030	S2G10 no fire
16:15	207	1194	060030	S2G10 no fire
16:21	211	1198	060030	S2G10 no fire
16:26	214	1201	060030	S2G9 no fire
16:40	223	1210	060030	S2G2, delta timing -2.2ms
16:42	224	1211	060030	S2G5, no fire
16:45	226	1213	060030	S2G1,10 no fire
16:48	228	1215	060030	S2G10 no fire
16:57	234	1221	060030	S2G2, delta timing -2.2ms
16:58	235	1222	060030	S2G8,9,10 no fire
17:04	239	1226	060030	S2G2, no fire
17:07	241	1228	060030	S2G2,8,9,10 no fire
17:09	242	1229	060030	S2G10 no fire
17:10			060030	Bird 13 @2.2m Bird 14@3.7 m Bird 15@7.2 all others within spec
17:13	245	1232	060030	S2G5/S2G9 no fire
17:18	248	1235	060030	S2G2,5,8,9,10 no fire
17:20			060030	Bird 12 @8.1 Bird 13 @1.6m Bird 14@32.5 m Bird 15@6.4 all others within spec
17:23	251	1238	060030	S2G9/S2G10 no fire
17:29	255	1242	060030	S4G2 no fire
17:30	256	1243	060030	S2G10 no fire
17:35			060030	Bird 12 @8.1/Bird 13 @1.1/Bird 14@1.4/Bird15@4.2/Bird 16@8.2
17:38	261	1248	060030	S2G10 no fire
17:48	268	1255	060030	S2G10 no fire
17:56	273	1260	060030	S2G10 no fire
18:15	288	1274	060030	S2G10 no fire
18:18	290	1276	060030	S2G5 S2G10 no fire
18:19	291	1277	060030	S2G10 no fire
18:30	299	1285	060030	S2G10 no fire
18:33	301	1287	060030	S2G10 no fire
18:37	304	1290	060030	S2G3 no fire
18:41	307	1293	060030	S2G10 no fire
18:46	311	1297	060030	Gun String 2 no fire
18:50	314	1300	060030	S2G8 no fire
18:52	316	1302	060030	S2G5 S2G9 S2G10 no fire
18:58	320	1306	060030	S2G8 S2G9 no fire
19:02	323	1309	060030	S2G5 S2G10 no fire
19:03	324	1310	060030	S2G5 S2G9 S2G10 no fire
19:07	326	1313	060030	S208/S209/S210 no fire

19:17	335	1321	060030	S2G10 no fire
19:20	336	1323	060030	S4G2 S4G3 no fire
19:36	341	1328	060030	S2G9 S2G10 no fire
19:29	344	1330	060030	S2G10 no fire
19:30	345	1331	060030	S2G9 S2G10 no fire
19:33	347	1333	060030	S2G10 S4G2 nofire
19:34	348	1334	060030	S4G3 no fire
19:36	349	1335	060030	S2G1 no fire
19:37	350	1336	060030	S4G2 no fire
19:42	354	1340	060030	S2G5 S2G10 no fire
19:59	365	1352	060030	Gun String 2 no fire/S2G7 IN SPEC
20:05	370	1357	060030	S2G5 no fire
20:07	371	1358	060030	S2G10 no fire
20:09	373	1360	060030	S2G10 no fire
20:15	377	1364	060030	S2G10 no fire
20:21	382	1369	060030	S4G2 no fire
20:23	383	1370	060030	S2G5 no fire
20:25	385	1372	060030	S2G3/S2G10 no fire
20:29	388	1375	060030	S2G9/S2G10 no fire
20:31	389	1376	060030	S2G2 delta 2.1ms/S2G5 no fire
20:34	391	1378	060030	S4G2 no fire
20:40	376	1383	060030	S2G10 no fire
20:43	378	1385	060030	S4G2 no fire
20:45	379	1386	060030	S2G1,G5,G8,G9,G10 no fire
20:46	380	1387	060030	S2G10 no fire
21:00	390	1397	060030	S2G2 delta -2.1ms
21:01	391	1398	060030	S4G2 no fire
21:14	420	1407	060030	S4G2 no fire
21:17	422	1409	060030	S4G2 no fire
21:18	423	1410	060030	S4G3 no fire
21:21	425	1412	060030	StrinG2 no fire
21:21	425	1412	060030	S4G2 no fire
21:22	426	1413	060030	S2G9/S2G10 no fire
21:24	427	1414	060030	S2G10 no fire
21:32	433	1420	060030	S2G10 no fire
21:41	439	1426	060030	S2G9/S2G10 no fire
21:49	445	1432	060030	S2G1/S2G3/S2G9 no fire
21:50	446	1433	060030	S2G8/S2G9/S2G10 no fire
21:53	448	1435	060030	S2G5 no fire
22:00	453	1440	060030	S2G9/S2G10 no fire
22:04	456	1443	060030	S2G2 no fire

22:10	460	1447	060030	S4G3 no fire
22:19	467	1454	060030	S2G10 no fire
22:24	471	1458	060030	S2G5/S2G10 no fire
22:33	478	1465	060030	S2G1/S2G9 no fire
22:42	485	1472	060030	S2G1/S2G10 no fire
22:44	486	1473	060030	S2G10 no fire
22:46	488	1475	060030	S4G2 no fire
22:48	489	1476	060030	S4G2/S4G3 no fire
22:53	493	1480	060030	S2G9/S2G10 no fire
22:57	496	1483	060030	S2G10 no fire
23:08	504	1491	060030	S2G10 no fire
23:09	505	1492	060030	S2G9/S2G10 no fire
23:14	508	1495	060030	S4G3 no fire
23:15	509	1496	060030	S2G5 no fire
23:16	510	1497	060030	S2G10 no fire
23:17	511	1498	060030	S2G9 no fire
23:20	513	1500	060030	S2G9S2G10/S4G2 no fire
23:23	515	1502	060030	S2G8/S2G9/S2G10 no fire
23:26	518	1505	060030	S2G8/S2G9/S2G10 no fire
23:32	521	1509	060030	S4G3/S2G9/S2G10 no fire
23:33	522	1510	060030	S4G2 no fire
23:38	527	1515	060030	S4G3 no fire
23:41	529	1516	060030	StrinG2 no fire, expect S2G2/S2G6
23:42	530	1517	060030	S2G1/S2G10/S4G2 no fire
23:46	533	1520	060030	S4G3 no fire
23:47	532	1521	060030	S4G2 no fire
23:49	533	1522	060030	S2G10 no fire
23:52	536	1525	060030	S2G10 no fire
23:56	539	1528	060030	S2G10 no fire
23:58	540	1529	060030	S4G2 no fire
23:59	543	1530	060030	S2G10 no fire
00:00	544	1531	060030	S2G10 no fire
00:02	545	1532	060030	S4G3 delta timing 7.1ms
00:03	546	1533	060030	S4G3 delta timing -5.1ms
00:07	549	1536	060030	S2G7,S4G2,S4G3 no fire
00:13	554	1541	060030	S2G10 no fire
00:15	555	1542	060030	S2G10 no fire
00:16	556	1543	060030	S2G9,G10 no fire
00:19	558	1545	060030	S2G2,G8,G9,G10 no fire
00:23	561	1548	060030	S2G6 auto fire at 203.2ms
00:30	566	1553	060030	S4G2 no fire

00:31	567	1554	060030	S2G1,G9 no fire
00:33	568	1555	060030	S4G2 no fire
00:35	570	1557	060030	S4G3 no fire
00:37	571	1558	060030	S2G9 no fire
00:40	573	1560	060030	S2G8,G9,G10 no fire
00:49	580	1567	060030	S4G2 no fire
00:52	582	1569	060030	S2G10 no fire
00:53	583	1570	060030	S4G2 no fire
01:01	588	1575	060030	S2G9,G10 no fire
01:05	591	1578	060030	S4G2 no fire
01:08	593	1580	060030	String2 expect G1,S3G3,S4G2 no fire
01:11	595	1582	060030	S4G2 no fire
01:14	597	1584	060030	S3G3 no fire
01:17	599	1586	060030	S2G2 delta timing 2.2ms
01:18	600	1587	060030	S4G1,G2,G3 no fire
01:20	601	1588	060030	S2G3,S3G3 no fire
01:21	602	1589	060030	S2G5,G10 no fire
01:27	606	1593	060030	S2G9,G10 no fire
01:28	607	1594	060030	S3G3 no fire
01:30	608	1595	060030	String2 expect G7 no fire
01:31	609	1596	060030	S3G3,S4G2 no fire
01:32	610	1597	060030	S2G1 no fire
01:34	611	1598	060030	S2G9,G10 no fire
01:35	612	1599	060030	S2G2 delta timing 2.1ms,S4G2 no fire
01:37	613	1600	060030	S4G3 no fire
01:44	618	1605	060030	S4G2 no fire
01:48	621	1608	060030	S4G2 no fire
01:49	622	1609	060030	S2G9,G10 no fire
01:51	623	1610	060030	S2G10 no fire
01:55	626	1613	060030	S4G3 no fire
01:58	628	1615	060030	S2G9 no fire
02:02	631	1618	060030	S2G9,G10 no fire
02:03	632	1619	060030	S2G10 no fire
02:07	635	1622	060030	S2G9,G10 no fire
02:17	642	1629	060030	S4G2 no fire
02:20	644	1631	060030	S2G8,G9,G10 no fire
02:24	647	1634	060030	S2G10 no fire
02:36	655	1642	060030	S4G3 no fire
02:44	661	1648	060030	S2G10 no fire
02:50	665	1652	060030	S4G3 no fire
02:58	670	1657	060030	S4G2 no fire

03:01	672	1659	060030	S4G3 no fire
03:05	675	1662	060030	S2G10 no fire
03:07	676	1663	060030	S2G5,G10 no fire
03:16	682	1669	060030	S4G2 no fire
03:19	684	1671	060030	S2G9 no fire
03:23	687	1674	060030	S4G3 no fire
03:27	690	1677	060030	S4G3 no fire
03:29	691	1678	060030	S2G9 no fire
03:31	692	1679	060030	S2G10 no fire
03:32	693	1680	060030	S2G9,G10 no fire
03:34	695	1682	060030	OBS crossing OBS_T4E_02 SP 1682
03:37	697	1684	060030	S2G10 no fire
03:39	698	1685	060030	S2G5 no fire
03:42	700	1687	060030	Reel Change 060030 to 060031
03:50	711	1693	060031	S3G3 no fire
03:52	712	1694	060031	S4G2,G3 no fire
03:53	713	1695	060031	S2G9,G10 no fire
03:57	716	1698	060031	S2G2 delta timing 2.1ms
03:59	717	1699	060031	S4G3 no fire
04:03	715	1702	060031	S3G3 no fire
04:06	717	1704	060031	S4G2 no fire
04:09	719	1706	060031	S2G10 no fire
04:11	720	1707	060031	S2G10 no fire
04:12	721	1708	060031	S3G3,G5,G6,G7 no fire
04:17	724	1711	060031	S4G3 no fire
04:26	730	1717	060031	S2G2 delta timing -2.1ms, S4G3 no fire
04:29	732	1719	060031	S2G9,G10 no fire
04:37	737	1724	060031	S4G3 no fire
04:38	738	1725	060031	S2G2 no fire
04:45	742	1729	060031	S4G2 no fire
04:49	745	1732	060031	S4G3 no fire
04:51	746	1733	060031	S4G2,G3 no fire
04:53	747	1734	060031	S4G3 no fire
04:58	749	1736	060031	S2G10 no fire
04:59	751	1738	060031	S3G8,G9 no fire
05:02	753	1740	060031	S2G9,G10 no fire
05:07	756	1743	060031	S4G2 no fire
05:09	757	1744	060031	S2G10 no fire
05:11	758	1745	060031	S2G10, S4G2,G3,G5 no fire
05:13	759	1746	060031	S3G3,G6,G9 no fire
05:16	761	1748	060031	S3G6,G8,G9 no fire

05:18	762	1749	060031	S3G7,G8,G9,G10 no fire
05:20	763	1750	060031	S2G9,G10 no fire
05:21	764	1751	060031	S2G10 no fire
05:28	768	1755	060031	S3G3,G5 no fire
05:31	770	1757	060031	S4G3 no fire
05:33	771	1758	060031	S4G3 no fire
05:37	774	1761	060031	S4G5 no fire
05:41	776	1763	060031	S3G3,G5,G6,G7 no fire
05:42	777	1764	060031	S3G3 no fire
05:44	778	1765	060031	S3G3,S4,G1,2,3,4 no fire, delta timing S1G4 -3.1ms, S2G4 -4.3 ms
05:46	779	1766	060031	S4G2 no fire
05:48	780	1767	060031	S3G3 no fire
05:49	781	1768	060031	Bird 6 out of spec-2 meters Bird 5 -2 meters
05:51	781	1768	060031	S2G10,S3G3,4, S4G2,4 no fire
05:51	782	1769	060031	S4G1,2 no fire
05:53	783	1770	060031	S2G2,10, S4G2, no fire
05:55	784	1771	060031	S2G2, S4G2, no fire
05:58	785	1772	060031	S2G7,9,10 no fire
05:59	787	1774	060031	S2G9,10 no fire
06:00	788	1775	060031	S2G9,10 no fire S4G2, no fire
06:01	789	1776	060031	S4G2 no fire
06:03	790	1777	060031	S2G9,10 no fire S4G2, no fire
06:04	791	1778	060031	S2G10 no fire, S4G2 no fire
06:05	792	1779	060031	S3G3,4,8,9, no fire S4G2 no fire
06:06	793	1780	060031	S4G2 no fire
06:07	794	1781	060031	S4G2 no fire
06:08	795	1782	060031	S4G2 no fire
06:09	796	1783	060031	S4G2 no fire
06:11	797	1784	060031	S2G8,9,10 no fire
06:12	798	1785	060031	S2G9,10 no fire S4G2 no fire
06:14	800	1787	060031	S4G2 no fire
06:15	801	1788	060031	S3G3 no fire S4G2 no fire
06:17	802	1789	060031	S4G2 no fire
06:18	803	1790	060031	S2G9,10 no fire S4G2 no fire
06:20	804	1791	060031	S2G9,10 no fire
06:21	805	1792	060031	S2G10, S4G2, no fire
06:24	807	1794	060031	S4G2 no fire
06:27	809	1796	060031	Current past, all birds back in spec except 18
06:27	809	1796	060031	S4G2 no fire
06:28	810	1797	060031	S4G2 no fire
06:31	812	1799	060031	S2G10, S4G2, no fire

06:32	813	1800	060031	S2G4, S4G2, no fire
06:33	814	1801	060031	S2G10, no fire
06:34	815	1802	060031	OBS crossing T4e_03
06:36	816	1803	060031	S2G10, no fire
06:38	818	1805	060031	S4G2 no fire
06:40	819	1806	060031	S3G3 no fire
06:41	820	1807	060031	S4G2 no fire
06:41	820	1807	060031	All birds in spec
06:46	824	1811	060031	S2G1,2,8,9,10 S4G2, no fire
06:47	825	1812	060031	S2G9,10, S4G2, no fire
06:49	827	1814	060031	S2G10, S3G3, S4G2, no fire
06:51	828	1815	060031	S4G2 no fire
06:54	831	1818	060031	S4G2 no fire
06:57	833	1820	060031	S4G2 no fire
06:58	834	1821	060031	S4G2 no fire
06:59	835	1822	060031	S2G10, no fire
07:00	836	1823	060031	S4G2 no fire
07:01	837	1824	060031	S4G2 no fire
07:03	838	1825	060031	S2G9,10 no fire
07:04	839	1826	060031	Gun String 2 / S4G2 no fire
07:05	840	1827	060031	S2G2,9 no fire
07:06	841	1828	060031	S2G9 no fire
07:07	842	1829	060031	S2G 1,2,3,8,9,10 /S4G2 no fire
07:10	844	1831	060031	S4G2 no fire
07:11	845	1832	060031	S2G8 ,9 no fire, S2G2 delta -2.1ms
07:14	848	1834	060031	S2G9,10 no fire
07:16	850	1836	060031	S2G1,8,9,10 no fire S2G2 delta -2.4ms
07:18	852	1838	060031	S2G9 no fire
07:19	853	1839	060031	S2G9 no fire
07:23	856	1842	060031	S2G1, 2 ,4 ,6 ,7 ,8 ,9 ,10 no fire
07:24	857	1843	060031	S4G2 no fire
07:25	858	1844	060031	S4G2 no fire
07:26	859	1845	060031	S4G2 no fire
07:27	860	1846	060031	S4G2 no fire
07:28	861	1847	060031	S2G9 ,10 no fire
07:30	862	1848	060031	S4G2 no fire
07:31	863	1849	060031	S3G3 no fire
07:34	865	1851	060031	S2G3 no fire
07:35	866	1852	060031	S4G2 no fire
07:36	867	1853	060031	S2G10 no fire
07:37	868	1853	060031	S2G9 no fire

07:39	869	1855	060031	S3G3 no fire
07:40	870	1856	060031	S4G2 no fire
07:41	871	1857	060031	S2G10 no fire
07:46	875	1861	060031	S2G1,8,9,10 no fire , S4G2 no fire
07:50	877	1864	060031	S3G3 S4G2 no fire
07:51	878	1865	060031	S4G2 no fire
07:54	880	1867	060031	S2G7 S4G2 no fire
07:55	881	1868	060031	S4G2 no fire
07:57	883	1870	060031	S4G2 no fire
07:58	884	1871	060031	S2G10 no fire
08:00	885	1872	060031	S4G3 no fire
08:02	887	1874	060031	S2G 08 09 10 no fire
08:03	888	1875	060031	S4G2 no fire
08:04	889	1876	060031	S4G2 no fire
08:06	890	1877	060031	S3G8 09 no fire
08:09	893	1880	060031	S4G2 no fire
08:11	895	1882	060031	S2G9 10, S4G3 no fire
08:15	898	1885	060031	S3G6 no fire
08:17	900	1887	060031	S4G2 no fire
08:18	901	1888	060031	S4G2 no fire
08:19	902	1889	060031	S4G2 no fire
08:21	903	1890	060031	S4G2 no fire
08:23	905	1892	060031	S4G2 no fire
08:26	908	1895	060031	S2G9,10, S4G2 no fire
08:29	910	1897	060031	S2G2 delta Timing -2.1 ms/S4G4 no fire
08:30	911	1898	060031	S4G2 no fire
08:31	912	1899	060031	S2G2 delta Timing 2.6 ms
08:32	913	1900	060031	S4G2 no fire
08:33	914	1901	060031	S4G2 no fire
08:34	915	1902	060031	S4G2 no fire
08:35	916	1903	060031	S2G10/S4G2 no fire
08:37	918	1905	060031	S4G2 no fire
08:40	920	1907	060031	S4G2 no fire
08:44	924	1911	060031	S3G3/S4G2 no fire
08:45	925	1912	060031	S4G1/S4G2 no fire
08:46	926	1913	060031	S2G10/S4G2 no fire
08:47	927	1914	060031	S4G2 no fire
08:49	929	1916	060031	S4G2 no fire
08:50	930	1917	060031	S2G3/S4G2 no fire
08:52	931	1918	060031	S2G10/S4G2 no fire
08:56	935	1922	060031	OBS crossing OBS_T4e_04 SP 1922

08:57	936	1923	060031	S4G2 no fire
09:00	939	1926	060031	S4G2 no fire
09:03	942	1929	060031	S2G2 delta Timing -2.2 ms/S3G9 no fire
09:07	945	1932	060031	S3G5 out of fire
09:08	946	1933	060031	S4G2 no fire
09:14	952	1939	060031	S4G2 no fire
09:18	956	1943	060031	S2G10 no fire
09:19	957	1944	060031	S2G10 no fire
09:21	958	1945	060031	S2G9/S2G10 no fire
09:22	959	1946	060031	S4G2 no fire
09:23	960	1947	060031	S2G10 no fire/S4G2 Delat Timing -3.8 ms
09:24	961	1948	060031	S2G10 no fire/S4G2 Delat Timing 2.6 ms
09:25	962	1949	060031	S3G8/S3G9 no fire
09:32	969	1956	060031	S3G8,9 no fire
09:36	972	1959	060031	S2G3 delta timing -2.6 ms
09:39	975	1962	060031	S3G3 no fire
09:41	977	1964	060031	S3G4, S4G2, no fire
09:42	978	1965	060031	S4G2 no fire
09:43	979	1966	060031	S3G9,10 no fire
09:45	981	1968	060031	S2G10, S3G3,4,S4G2 no fire
09:46	982	1969	060031	S4G2 no fire
09:47	983	1970	060031	S3G3,7 no fire
09:51	986	1973	060031	S4G2 no fire
09:53	988	1975	060031	S2G10 no fire
09:58	993	1980	060031	S3G8 no fire
09:59	994	1981	060031	S2G2 no fire
10:00	995	1982	060031	S4G2 delta timing 4.1 ms
10:01	996	1983	060031	S3G3 S4G2, no fire
10:02	997	1984	060031	S4G2 delta timing -3.6 ms,
10:03	998	1985	060031	S4G2 no fire
10:11	1005	1992	060031	S3G3 no fire
10:16	1010	1997	060031	S4G2 no fire
10:20	1013	2000	060031	S4G2 no fire
10:22	1015	2002	060031	S4G2 no fire
10:25	1018	2005	060031	S3G3 no fire
10:29	1022	2009	060031	S4G2 no fire
10:39	1031	2018	060031	S2G10 no fire
10:40	1033	2020	060031	S3G4 no fire
10:41	1034	2021	060031	S2G9 10 no fire
10:43	1036	2023	060031	S4G2 no fire
10:44	1037	2024	060031	S2G10 no fire

10:45	1038	2025	060031	S3G5 Auto Fire at 344.0 ms
10:48	1041	2028	060031	S4G2 no fire
10:51	1044	2031	060031	S2G10 no fire
10:54	1046	2033	060031	S3G3 no fire
10:55	1047	2034	060031	S3G3 no fire
10:56	1048	2035	060031	S3G4 no fire
10:57	1049	2036	060031	S3G3,4 no fire
10:58	1050	2037	060031	S3G5 Auto Fire at 372.0 ms
11:02	1054	2041	060031	S4G2 no fire
11:03	1055	2042	060031	S3G4 no fire,OBS crossing OBS T4e_05
11:06	1058	2045	060031	S2G10 no fire
11:11	1063	2050	060031	S2G10 no fire
11:16	1067	2054	060031	S4G2 no fire
11:19	1070	2057	060031	S4G2 no fire
11:20	1071	2058	060031	S2G10 no fire
11:22	1073	2060	060031	S3G3,G4 no fire
11:26	1077	2064	060031	S2G10 no fire
11:31	1082	2069	060031	S4G2 no fire
11:34	1085	2072	060031	S3G4 no fire
11:41	1091	2078	060031	S2G9 10 no fire
11:43	1093	2080	060031	S2G10 no fire
11:51	1100	2087	060031	S3G3 no fire
11:54	1102	2089	060031	S4G2 no fire
11:56	1104	2091	060031	S4G2 no fire
11:59	1107	2094	060031	S4G2 no fire
12:02	1110	2097	060031	S2G10 no fire
12:06	1113	2100	060031	S3G4 no fire
12:07	1114	2101	060031	S4G2 no fire
12:09	1116	2103	060031	Auto fire at 374.4ms
12:15	1121	2108	060031	S4G2 no fire
12:16	1122	2109	060031	Auto fire at 371.2ms
12:18	1124	2111	060031	S4G2 no fire
12:29	1135	2122	060031	S2G4 no fire
12:38	1143	2130	060031	S2G10 no fire
12:50	1155	2142	060031	S2G10 no fire
12:54	1159	2146	060031	S2G10 no fire
12:59	1164	2151	060031	S4G2 no fire
13:03	1168	2155	060031	S3G3 no fire
13:10	1175	2162	060031	S4G2 no fire,obs crossing OBS T4e_06
13:13	1178	2165	060031	S4G2 no fire
13:15	1180	2167	060031	S4G2 no fire

13:29	1194	2181	060031	S2G10 no fire
13:31	1196	2183	060031	S2G7 no fire
13:32	1197	2184	060031	S2G9,G10 no fire
13:37	1201	2188	060031	S4G4 no fire
13:39	1203	2190	060031	S4G2 no fire
13:45	1209	2196	060031	S3G4 no fire
13:47	1211	2198	060031	S2G2 delta timing 2.2ms,S3G4 no fire
13:53	1217	2204	060031	S2G9 no fire
13:57	1221	2208	060031	S4G2 no fire
13:59	1223	2210	060031	S2G10 no fire
14:04	1227	2214	060031	S2G2 delta timing -2.1m
14:08	1231	2218	060031	S2G7 no fire
14:17	1240	2227	060031	S2G3 no fire
14:25	1247	2234	060031	S3G5 Auto fire at 368.8ms
14:31	1252	2239	060031	S2G4 no fire
14:32	1253	2240	060031	S3G5 Auto fire at 368.0ms
14:39	1260	2247	060031	S2G10 no fire
14:43	1263	2250	060031	S2G9,G10 no fire
14:45	1265	2252	060031	S2G8,G10 no fire,S2G2 delta timing 2.2m,S2G9 delta timing -7.2m
14:46	1266	2253	060031	S2G9 delta timing 6.2m
14:47	1267	2254	060031	S2G9,G10 no fire
14:51	1270	2257	060031	S2G2 delta timing 2.1m
14:58	1276	2263	060031	S4G2 no fire
15:03	1280	2267	060031	S4G2 no fire
15:10	1286	2273	060031	S2G2 delta timing -2.2m
15:19	1293	2280	060031	S2G10 no fire
15:22	1295	2282	060031	Obs crossing OBS T4e_07,S4G3 no fire
15:30	1301	2288	060031	S2G10,S4G2 no fire
15:35	1305	2292	060031	S2G10 no fire
15:55	1320	2307	060031	S2G9 no fire
15:58	1322	2309	060031	S2G3 no fire
15:59	1323	2310	060031	S4G2 no fire
16:17	1336	2323	060031	S4G2 no fire
16:22	1340	2327	060031	S4G3 no fire
16:25	1342	2329	060031	S2G7 no fire
16:43	1355	2342	060031	S2G10 no fire
16:49	1359	2346	060031	S2G4 no fire
16:52	1361	2348	060031	S2G10 no fire
16:53	1362	2349	060031	S4G2 no fire
16:56	1364	2351	060031	S2G7,10 no fire
17:07	1372	2359	060031	S2G9,10 no fire

17:10	1375	2362	060031	S4G2 no fire
17:14	1378	2365	060031	S2G10 no fire
17:18	1381	2368	060031	S3G5 AUTO FIRE AT 370.4ms
17:23	1385	2372	060031	S3G2 delta TIMING 2.1ms
17:31	1391	2378	060031	S2G9,10 no fire
17:42	1400	2387	060031	REEL CHANGE 060032
17:46	1404	2391	060032	S2G10 no fire
17:52	1409	2396	060032	S2G9/S2G10 no fire
18:00	1416	2403	060032	OBS crossing OBS_T4E_08
18:02	1418	2405	060032	S2G10 no fire
18:09	1425	2412	060032	S2G2 delta -2.2 ms
18:13	1428	2415	060032	S2G10 no fire
18:18	1433	2420	060032	S2G10 no fire
18:19	1434	2421	060032	S4G2 no fire
18:20	1435	2422	060032	S4G2 no fire
18:25	1439	2426	060032	S2G9,10 no fire
18:46	1460	2446	060032	S2G9 S2G10 no fire
18:49	1463	2449	060032	S4G2 no fire
18:58	1472	2458	060032	S3G5 auto fire 380.ms
19:04	1478	2464	060032	S4G2 no fire
19:17	1491	2477	060032	S3G5 auto fire 372.ms
19:25	1499	2485	060032	S2G10 no fire
19:33	1507	2493	060032	S2G10 no fire
19:34	1508	2494	060032	S3G5 auto fire at 360.8ms
20:01	1536	2523	060032	OBS crossing OBS_T4E_09 SP 2523
20:20	1557	2544	060032	S2G4 no fire
20:34	1573	2560	060032	S2G10 no fire
20:33	1572	2559	060032	OBS crossing OBS_BBOBS26 SP 2559
20:55	1595	2582	060032	S2G7 no fire
21:01	1602	2589	060032	S4G2 no fire
21:24	1627	2614	060032	S2G2 delta 2.3 ms
21:42	1647	2634	060032	S2G3 no fire
21:50	1656	2643	060032	OBS crossing OBS_T4E_10 SP2643
21:53		~2646	060032	digishot controller fails
23:20	1749	2736	060032	configuration issue resolved
23:31	1760	2747	060032	S2G2 delta -2.2 ms
23:32	1761	2748	060032	S4G2 no fire
23:47	1776	2763	060032	OBS crossing OBS_T4E_11 SP 2763
00:17	1808	2795	060032	S2G2 delta Timing 2.3ms
00:20	1812	2799	060032	S2G2 delta Timing -2.5ms
00:35	1829	2816	060032	S4G2 no fire

00:43	1837	2824	060032	S4G2 no fire
00:49	1843	2830	060032	S4G2 no fire
00:54	1849	2836	060032	S4G3 no fire
00:55	1850	2837	060032	S4G4 no fire
01:19	1871	2858	060032	S4G4 no fire
01:24	1875	2862	060032	S4G2 no fire
01:27	1878	2865	060032	S4G2 no fire
01:28	1879	2866	060032	S4G2 no fire
02:25	1920	2907	060032	S4G4 no fire
03:45	1977	2964	060032	OBS CROSSING OBS_T4E_13 SP2964
03:51	1982	2969	060032	S4G2 no fire
04:54	2043	3030	060032	S4G2 no fire
05:00	2050	3037	060032	Turning off line for fishing gear
05:07	2057	3044	060032	OBS CROSSING OBS_T4E_12 SP3044
05:09	2058	3045	060032	Noise at head, due to turn.
05:24	2067	3054	060032	S4G2 no fire EOL Lat 22d 42.3795 N 121d 15.1263 E

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #	060033	060038	FGSP	1428
SP #	1123	5032	LGSP	5032

Line	MGL0906_017
Sequence	029
Direction	90

Streamer Parameters				
	1	2	3	4
Length			6000	
Auxiliaries				
Shotpoint Interval:			50	
Offset CS - CFG			161	
Group Interval:			12.5	
Number of channels			468	
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	15s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/23/09	05/24/09
Time UTC	05:39	08:02
Volume (cu in.)	6600	6600
Streamer Depth (m)	9	9
Wind (kts)	6	5
Sea State (ft)	1-2	1-3
Water Depth (m)	1160	5792

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments	
05:39 SOL SP1123 File 0001 Lat 22d 41.6377N Lon 12115.5749 E	
05:45 SSG6 Auto firing. Trouble shooting and then repairing. Manuvering to bring onboard Strings 3 and 4 off. Rejoining line.	
05:50 low air pressure on S4 to try and stop autofire on G6.	
06:00 Strings 3 and 4 off	
06:30 Crossed over line while bringing on string 4.	
07:04 Strings 3 and 4 on testing	
07:17 S3&4 off G1,2,3 comm errors.	
07:30 found cut jumper!	
08:07 SP 1428 all guns working	
09:01 OBS crossing T4e_14 SP1533	
11:20 Reel Change 060033 to 060034 SP 1823	
11:25 OBS crossing T4e_11 SP1835	
13:24 OBS crossing T4e_10 SP2135	
15:20 OBS crossing T4e_09 SP2435	
15: 51Reel Change 060034 to 060035 SP 2523	
17:16OBS CROSSING OBS_T4E_08 SP 2735	
19:25 OBS CROSSING OBS_T4E_07 SP 3037	
21:25 OBS CROSSING OBS_T4E_06 SP3337	
22:20 POWERED DOWN TO SINGLE GUN S1G03 40 IN3 MAMMAL MITIGATION	
22:35 RAMP UP SP 3514	
23:10 RAMP UP COMPLETE SP3604	
23:24 OBS CROSSING OBS_T4e_05 SP3637	
01:16 REEL CHANGE 060036-060037 SP3922	
01:22 OBS CROSSING OBS_T4E_04 SP 3934	
Line Status:	
02:21 BIRD 13 @11 METERS	
02:56 S4G02 consistant no fires was removed as active and spared. S4G05 is now active new volume is 6420 in3	
03:09 Air leak string 4, S 3 and S4 off to recover and repair S4, SP 4205	
04:49 Powering up S3 and S4 SP 4431	
05:30 OBS crossing T4e-02 SP4539	
07:04 OBS crossing T4e-01 SP4839	
07:49 Start turn to port. SP 4993	
08:02 EOL SP 5032 File 3910 LAT 22 43.8886 N LONG 123 09.7180 E	

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
05:39	0001	1123	060033	05:39 SOL SP1123 File 0001 Lat 22d 41.6377N Lon 12115.5749 E
05:56	0043	1165	060033	many missed shot errors due to autofire on S4G6
06:41	151	1272	060033	S2G02 delta at 2.2ms
07:04	192	1314	060033	Strings 3 and 4 on
07:06	194	1316	060033	Power Cycle string 4 S4 No fire S4 G1,2,3, no fire
07:07	197	1319	060033	Power Cycle string 4 S4 No fire S4 G1,2,3, no fire
28.7 SRV	198	1320	060033	S4 G1,2,3, no fire
	199	1321	060033	S4 G1,2,3, no fire
	200	1322	060033	S4 G1,2,3, no fire
	201	1323	060033	S4 G1,2,3, no fire
	202	1324	060033	S4 G1,2,3, no fire
	203	1325	060033	S4 G1,2,3, no fire
07:11	204	1326	060033	Power Cycle string 4 S4 No fire S4 G1,2,3, no fire
	205	1327	060033	S4G1,2,3,4,6,8,9,10 no fire
	206	1328	060033	S4 G1,2,3, no fire
	207	1329	060033	S4 G1,2,3, no fire
	208	1330	060033	S4 G1,2,3, no fire
	209	1331	060033	S4 G1,2,3, no fire
	210	1332	060033	S4 G1,2,3, no fire OBS crossing T4e_13
	211	1333	060033	S4 G1,2,3, no fire
	212	1334	060033	S4 G1,2,3, no fire
SRV 27.8	213	1335	060033	S4 G1,2,3, no fire
07:17	214	1336	060033	Strings 3 and 4 off.
07:39	260	1382	060033	Missed shot on S1 and 2 changing mode on S3and 4
07:41	264	1386	060033	Missed shot on S1 and 2 changing mode on S3and 4
08:05	303	1425	060033	Powered up all 4 strings
08:07	306	1428	060033	All guns working!
09:01	411	1533	060033	OBS crossing T4e_14

09:09	429	1551	060033	S3G2 delta timing 2.1 ms
09:15	442	1564	060033	S4G2 no fire
09:39	497	1619	060033	noise first 1/2 of streamer, current shift FTH -30deg.
09:56	540	1662	060033	S2G02 delta at 2.1ms
10:02	552	1674	060033	noise first 1/8 of streamer, current shift back FTH -5.6 deg.
10:27	603	1725	060033	noise mid streamer, current shift back FTH 4.1 deg.
10:28	604	1726	060033	S4G3 no fire
11:03	667	1789	060033	S4G04 no fire
11:12	688	1810	060033	Noise cleared FTH -20 deg.
11:20	701	1823	060034	Reel Change 060033 to 060034
11:23	709	1831	060034	S4G04 no fire
11:25	713	1835	060034	S4G04 no fire, OBS crossing T4e_11
11:57	787	1909	060034	S4G01 Delta Timing at -2.2 ms
12:00	795	1917	060034	S4G02 no fire
12:37	889	2011	060034	S4G2 no fire
12:51	925	2047	060034	S4G2 no fire
12:53	930	2052	060034	S4G2 no fire
13:01	952	2074	060034	S4G2 no fire
13:05	961	2083	060034	S4G4 no fire
13:24	1013	2135	060034	S4G2 no fire, OBS Crossing T4e_10
13:31	1032	2154	060034	S4G2 no fire
13:32	1035	2157	060034	S4G2 no fire
13:33	1037	2159	060034	S4G2 no fire
14:11	1138	2260	060034	S4G2 no fire
14:42	1222	2344	060034	S2G2 Delta Timing at -2.2 ms
15:10	1395	2517	060034	S2G2 Delta Timing at -2.4 ms
15:17	1313	2535	060034	OBS crossing T4e_09
15:20	1321	2543	060034	S2G2 Delta Timing at -2.2 ms
15:49	1395	2517	060034	S4G2 no fire
15:49	1398	2520	060034	S4G2 no fire
15:50	1399	2521	060034	S4G2 no fire
15:51	1399	2521	060034	S2G2 Delta Timing at -2.1 ms
15:51	1401	2523	060035	Reel Change 060034 to 060035
16:19	1472	2594	060035	string 2 NO FIRE
17:08	1593	2715	060035	S3G02 DELTA 2.1 ms
17:13	1605	2727	060035	S4G02
17:16	1613	2735	060035	OBS CROSSING OBS_T4E_08 SP 2735
17:20	1622	1744	060035	S4G03 NO FIRE
17:27	1640	2762	060035	S3G02 DELTA 2.2 ms
17:52	1701	2823	060035	S3G02 DELTA -2.2ms
18:04	1731	2853	060035	S4G02 no fire
18:20	1771	2892	060035	S4G02 no fire
18:59	1857	2978	060035	S4G02 no fire
19:05	1870	2991	060035	S2G02 DELTA 2.2ms
19:14	1889	3011	060035	S4G02 NO FIRE
19:15	1891	3013	060035	S4G02 no fire
19:20	1903	3025	060035	S4G02 no fire

19:23	1909	3031	060035	S2G07/S2G08/S2G09 NO FIRE
19:30	1925	3047	060035	S4G02 no fire
19:30	1926	3048	060035	S4G02 no fire
19:25	1915	3037	060035	OBS CROSSING OBS_T4E_07 SP 3037
20:56	2138	3260	060036	S4G04 NO FIRE
20:42	2100	3222	060035	REEL CHANGE 060036
21:04	2157	3279	060036	S4G02 NO FIRE
21:15	2188	3310	060036	S4G02 NO FIRE
21:25	2215	3337	060036	OBS CROSSING OBS_T4E_06 SP3337
21:29	2225	3347	060036	S4G02 no fire
21:32	2233	3355	060036	S2G02 DELTA 2.1 ms
21:37	2245	3367	060036	S3G02 DELTA -2.1 ms
22:20	2354	3476	060036	POWERED DOWN
22:20	2655	3477	060036	SHOOTING SECURED
22:21	2356	3478	060036	SHOOTING SECURED
22:21	2357	3479	060036	SINGLE GUN
22:35	2392	3514	060036	RAMP UP
23:10	2482	3604	060036	RAMP UP COMPLETE FULL VOLUME
23:13	2485	3607	060036	S4G02 NO FIRE
23:15	2492	3614	060036	S4G02 no fire
23:19	2503	3625	060036	S2G02 DELTA TIMING 2.1 ms
23:20	2504	3626	060036	S4G02 NO FIRE
23:23	2513	3635	060036	S4G02 NO FIRE
23:24	2515	3637	060036	OBS CROSSING OBS_T4e_05 SP3637
23:25	2518	2640	060036	S4G02 NO FIRE
23:29	2527	3649	060036	S4G02 NO FIRE
23:32	2535	3657	060036	S4G02 NO FIRE
23:34	2539	3661	060036	S4G02 NO FIRE
23:35	2542	3664	060036	S4G02 no fire
00:53	2739	3861	060036	S4G1 delta timing -2.3ms
01:16	2800	3922	060036	REEL CHANGE 060036-060037
01:22	2812	3934	060037	OBS CROSSING OBS_T4E_04 SP 3934
01:29	2832	3954	060037	S4G02 NO FIRE
01:40	2860	3982	060037	S4G02 no fire
01:44	2869	3991	060037	S4G02 NO FIRE

02:17	2955	4077	060037	S2G02 DELTA 2.2 ms
02:23	2970	4092	060037	S4G02 no fire
02:24	2972	4094	060037	S4G02 no fire
02:35	3000	4122	060037	S4G02 no fire
02:38	3008	4130	060037	S4G02 no fire
02:50	3037	4159	060037	S4G04 no fire
02:52	3041	4163	060037	S4G01 no fire
02:52	3043	4165	060037	S4G02 no fire
02:53	3044	4166	060037	S4G02 no fire
02:53	3045	4167	060037	S4G04 no fire
02:54	3046	4168	060037	S4G02 no fire
02:54	3047	4169	060037	S4G02 no fire
02:54	3048	4170	060037	S4G02 no fire
02:55	3050	4172	060037	S4G01 no fire
02:56	3051	4173	060037	S4G05 DELTA -2.9 ms
03:02	3067	4189	060037	S4G04 no fire
03:03	3068	4190	060037	S4G05 no fire
03:03	3070	4192	060037	S4G04 no fire
03:09	3183	4205	060037	S4G05 no fire
03:09	3183	4205	060037	Airleak detected S4, switched off S3, S4
04:51	3309	4431	060037	no fire Strings 3 and 4 powering after repairs
04:53	3313	4435	060037	S3G1,2 no fire
04:53	3314	4436	060037	S3G1,2 no fire
04:53	3315	4437	060037	S3G1,2 no fire
04:54	3316	4438	060037	S3G1,2 no fire
04:54	3317	4439	060037	S3G1,2 no fire
04:55	3318	4440	060037	S3G1,2 no fire
04:56	3320	4442	060037	Power cycle S3 No fire
04:56	3321	4443	060037	S2G3 delta timing 2.7 ms.
05:19	3393	4515	060037	Bird 13 out of spec 10.2 meters, adjusted fin angle to bring it in spec.
05:30	3417	4539	060037	OBS crossing T4e_02
05:33	3425	4547	060037	S4G02 no fire
05:40	3449	4571	060037	S4G02 no fire
05:57	3501	4623	060038	Reel Change 060037 to 060038
06:01	3514	4636	060038	S4G04 no fire
06:03	3519	4641	060038	S4G02 no fire
06:06	3527	4649	060038	S4G04 no fire
06:10	3541	4663	060038	S4G3 no fire
06:21	3575	4697	060038	Bird 13 out of spec 10.2 meters, adjusted fin angle to bring it in spec.now @-5 degrees.
06:38	3631	4753	060038	S2G2 delta timing 2.2 ms.
06:40	3636	4758	060038	Bird 13 out of spec 10. meters, adjusted fin angle to bring it in spec.now @-8 degrees.
07:04	3717	4839	060038	OBS crossing T4e_01
07:42	3847	4969	060038	S2G2 Delta timing -2.3 ms.
07:45	3854	4976	060038	S2G2 no fire.
07:47	3863	4985	060038	Bird 13 out of spec 10. meters, adjusted depth to 9 m.
07:49	3871	4993	060038	Start turn to Port.

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #	060039	060042	FGSP	1032
SP #	1032	3542	LGSP	3542

Line	MGL0906_18N
Sequence	030
Direction	000

Streamer Parameters				
	1	2	3	4
Length			6000	
Auxiliaries				
Shotpoint Interval:			50	
Offset CS - CFG			161	
Group Interval:			12.5	
Number of channels			468	
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	15s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/24/09	05/24:
Time UTC	08:06	22:53
Volume (cu in.)	6600	6420
Streamer Depth (m)	9	9
Wind (kts)	5	18
Sea State (ft)	1-3	5-7
Water Depth (m)	5785	3374

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments
08:06 SOL MGL09_06_18N Seq 030 BIRD 13 difficult to maintan depth LAT 22 44.1598 N LONG 123 09.7180 E
11:45 Reel Change 060039 to 060040 @SP 1732
1626 REEL CHANGE 060040-060041
16:00SP2463 Power cycle string 4, still random failures
19:01 source behaving best after SP2864 S4G02 SPARED, S4G04 SPARED S1G05 ACTIVE S2G05 ACTIVE VOLUME IS 6420 IN3
22:46 start of turn SP3525
22:53LAT 023 52.15263N LONG 123 10.16964 E
LAST REEL 060042 LAST FILE 2511
Line Status:

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
08:06	0001	1032	060039	SOL MGL09_06-18N Seq 030
08:34	102	1134	060039	Noise at center of streamer, (turn)
08:36	114	1146	060039	Bird 13 at 10.5 meters, set fin angle to -5 deg.
09:13	231	1263	060039	S2G02 Delta Timing at -2.2 ms
09:43	333	1365	060039	S2G02 Delta Timing at 2.5 ms
10:21	457	1489	060039	S4G02 No Fire
10:29	482	1514	060039	Bird 15 rose to 7.2 m, set back to depth keeping 9m. Then 0 fin angle.
10:31	486	1518	060039	S4G03 No Fire
10:31	488	1520	060039	S4G02 No Fire
10:34	496	1528	060039	S4G04 No Fire
10:39	511	1543	060039	S4G02 No Fire
10:45	530	1562	060039	S4G02 No Fire
10:47	536	1568	060039	S4G02 No Fire
10:48	539	1571	060039	S4G02 No Fire
10:49	540	1572	060039	S4G02,4 No Fire
10:50	544	1576	060039	S2G3,4 no fire
10:52	550	1582	060039	S4G02 No Fire
10:52	551	1583	060039	S4G02 No Fire
10:55	559	1591	060039	S4G02 No Fire
10:58	566	1598	060039	S4G04 No Fire
11:01	576	1608	060039	S4G02 No Fire
11:01	577	1609	060039	S4G02 No Fire
11:02	579	1611	060039	S4G04 No Fire
11:03	583	1615	060039	S4G04 No Fire
11:04	585	1617	060039	S4G02,3 No Fire
11:05	587	1619	060039	S4G04 No Fire
11:07	593	1625	060039	S4G02 No Fire
11:07	594	1626	060039	S4G04 No Fire
11:11	605	1637	060039	S4G02 No Fire
11:12	607	1639	060039	S4G02,3 No Fire
11:13	611	1643	060039	S4G04 No Fire
11:14	613	1645	060039	S4G02 No Fire
11:15	616	1648	060039	S4G02 No Fire
11:15	618	1650	060039	S4G3 no fire
11:17	623	1655	060039	S4G04 No Fire
11:20	631	1663	060039	S4G04 No Fire
11:20	632	1664	060039	S4G04 No Fire
11:21	634	1666	060039	S4G02 No Fire
11:24	641	1673	060039	S4G04 No Fire

11:24	643	1675	060039	S4G02 No Fire
11:25	644	1676	060039	S2G02 Delta Timing at 2.1 ms
11:25	646	1678	060039	S4G04 No Fire
11:27	650	1682	060039	S4G04 No Fire
11:28	653	1685	060039	S4G04 No Fire
11:30	658	1690	060039	S4G03 No Fire
11:31	661	1693	060039	S4G02 04 No Fire
11:33	667	1699	060039	S4G02 No Fire
11:34	671	1703	060039	S4G02 No Fire
11:37	677	1709	060039	S4G04 No Fire
11:38	682	1714	060039	S4G03 No Fire
11:39	684	1716	060039	S4G03 No Fire
11:39	685	1717	060039	S4G02 No Fire
11:43	695	1727	060039	S4G04 No Fire
11:43	696	1728	060039	S4G04 No Fire
11:44	697	1729	060039	S4G03 No Fire
11:44	698	1730	060039	S4G3 no fire
11:45	700	1732	060039	S4G3 no fire Change Reel 060039 to 060040
11:45	701	1733	060040	S4G4 no fire
11:46	704	1736	060040	S4G3 no fire
11:46	705	1737	060040	S4G2 no fire
11:48	710	1742	060040	S4G2 no fire
11:50	715	1747	060040	S4G2 no fire
11:51	717	1749	060040	S4G4 no fire
12:00	742	1774	060040	S4G2 no fire
12:05	755	1787	060040	S4G2 no fire
12:11	771	1803	060040	S3G08 Delta Timing at -2.3 ms
12:14	780	1812	060040	S4G4 no fire
12:15	781	1813	060040	S4G2 no fire
12:16	785	1817	060040	S4G2 no fire
12:18	790	1822	060040	S4G2 no fire
12:21	798	1830	060040	S4G2 no fire
12:23	802	1834	060040	S4G2 no fire
12:26	811	1843	060040	S4G2 no fire
12:30	821	1853	060040	S4G2 no fire
12:31	823	1855	060040	S4G2 no fire
15:34	833	1865	060040	S4G4 no fire
15:35	834	1866	060040	S4G4 no fire
12:36	838	1870	060040	S4G2 no fire
12:38	843	1875	060040	S4G2 no fire
12:43	854	1886	060040	S4G2 no fire

12:43	855	1887	060040	S4G2 no fire
12:54	882	1914	060040	Noise at head of streamer, Bridge note freighter 4.2 nm. Astern. Noise NMO!
12:53	879	1911	060040	S4G2 no fire
12:55	884	1916	060040	S4G2 no fire
12:55	885	1917	060040	S4G3 no fire
12:58	895	1926	060040	S4G2 no fire
13:07	915	1947	060040	S4G2 no fire
13:12	928	1960	060040	S4G4 no fire
13:13	931	1963	060040	S4G3 no fire
13:17	941	1973	060040	Noise stopped ~ mid streamer.
13:21	952	1984	060040	S4G4 no fire
13:29	971	2003	060040	S4G2 no fire
13:30	973	2005	060040	S4G4 no fire
13:38	993	2025	060040	S4G2 no fire
13:38	994	2026	060040	S4G2 no fire
13:55	1038	2070	060040	S4G4 no fire
13:56	1041	2073	060040	S4G2 no fire
14:02	1054	2086	060040	S4G3 no fire
14:03	1058	2090	060040	S4G4 no fire
14:06	1065	2097	060040	S4G4 no fire
14:12	1080	2112	060040	S4G2 no fire
14:15	1089	2121	060040	S4G4 no fire
14:17	1094	2126	060040	S4G2 no fire
14:23	1108	2140	060040	S4G4 no fire
14:24	1110	2142	060040	S4G2 no fire
14:27	1117	2149	060040	S4G2 no fire
14:27	1118	2150	060040	S4G2 no fire
14:28	1120	2152	060040	S4G2 no fire
14:30	1126	2158	060040	S4G2 no fire
14:31	1127	2159	060040	S4G2 no fire
14:32	1130	2162	060040	S4G2 no fire
14:35	1137	2169	060040	S4G2 no fire
14:39	1147	2179	060040	S4G3 no fire
14:41	1152	2184	060040	S4G4 no fire
14:44	1157	2189	060040	S2G4 no fire

14:45	1160	2192	060040	S4G2,G4 no fire
14:47	1166	2198	060040	S4G4 no fire
14:48	1168	2200	060040	S4G2 no fire
14:50	1172	2204	060040	S4G2 no fire
14:50	1173	2205	060040	S4G2 no fire
14:54	1181	2213	060040	S4G2 no fire
14:57	1189	2221	060040	S4G4 no fire
14:58	1192	2224	060040	S4G4 no fire
15:00	1196	2228	060040	S4G2 no fire
15:02	1201	2233	060040	S4G2 no fire
15:03	1203	2235	060040	S4G4 no fire
15:04	1205	2237	060040	S4G4 no fire
15:05	1207	2239	060040	S4G4 no fire
15:05	1208	2240	060040	S4G4 no fire
15:08	1214	2246	060040	S4G4 no fire
15:13	1226	2258	060040	S4G2 no fire
15:13	1227	2259	060040	S4G4 no fire
15:14	1230	2262	060040	S4G2 no fire
15:20	1244	2276	060040	S4G2 no fire
15:25	1255	2287	060040	S4G2 no fire
15:27	1261	2293	060040	S2G02 Delta Timing at -2.1 ms,S4G4 no fire
15:29	1265	2297	060040	S4G2 no fire
15:31	1269	2301	060040	S4G4 no fire
15:31	1270	2302	060040	S4G4 no fire
15:33	1275	2307	060040	S4G2 no fire
15:34	1277	2309	060040	S4G2 no fire
15:34	1278	2310	060040	S4G4 no fire
15:35	1279	2311	060040	S4G4 no fire
15:36	1281	2313	060040	S4G4 no fire
15:36	1283	2315	060040	S4G4 no fire
15:38	1286	2318	060040	S4G2 no fire
15:39	1288	2320	060040	S4G2 no fire
15:39	1290	2322	060040	S4G4 no fire
15:40	1291	2323	060040	S2G4 no fire
15:41	1293	2325	060040	S4G2,G4 no fire
15:42	1296	2328	060040	S4G2,G4 no fire
15:43	1297	2329	060040	S2G3 no fire
15:43	1299	2331	060040	S4G2,G4 no fire
15:45	1302	2334	060040	S4G2 no fire
15:50	1313	2345	060040	S4G04 No Fire
15:52	1319	2351	060040	S2G01 No Fire

15:53	1320	2352	060040	S2G01 No Fire
15:54	1323	2355	060040	S4G02 No Fire
15:56	1328	2360	060040	S4G04 No Fire
15:57	1330	2362	060040	S4G02 No Fire
15:59	1334	2366	060040	S4G02 No Fire
15:59	1336	2368	060040	S2G03 No Fire
16:00	1337	2369	060040	S2G04 No Fire
16:01	1340	2372	060040	S4G04 No Fire
16:02	1343	2375	060040	S4G04 No Fire
16:03	1344	2376	060040	S4G2,G4 no fire
16:03	1346	2378	060040	S4G2,G4 no fire
16:04	1348	2380	060040	S4G02 No Fire
16:05	1350	2382	060040	S4G02 No Fire
1606	1353	2385	060040	S4G04 No Fire
1607	1354	2386	060040	S4G02 No Fire
1607	1355	2387	060040	S4G02 No Fire
1608	1356	2388	060040	S3G10 DELTA
1608	1359	2391	060040	S4G2,G4 no fire
1608	1360	2392	060040	S3G10 DELTA
1609	1361	2393	060040	S2G01 NO FIRE
1609	1362	2394	060040	S4G02 No Fire
1610	1363	2395	060040	S4G2,G4 no fire
1610	1366	2398	060040	S4G2,G4 no fire
1611	1367	2399	060040	S4G2,G4 no fire
1611	1368	2400	060040	S4G2,G4 no fire
1612	1370	2402	060040	S4G2,G4 no fire
1612	1371	2403	060040	S4G2,G4 no fire
1613	1372	2404	060040	S4G2,G4 no fire
1615	1374	2406	060040	S4G03 No Fire
1615	1375	2407	060040	S4G04 No Fire
1617	1379	2411	060040	S4G04 No Fire
1618	1383	2415	060040	S4G04 No Fire
1622	1390	2423	060040	S4G04 No Fire
1623	1394	2426	060040	S4G04 No Fire
1623	1395	2427	060040	S4G04 No Fire
1624	1396	2428	060040	S4G04 No Fire
1624	1397	2429	060040	S4G03,04 No Fire
1626	1400	2432	060040	REEL CHANGE 060040-060041
1628	1406	2438	060041	S4G02,04 No Fire S3G10 DELTA TIMING -2.3ms
1629	1408	2440	060041	S2G01, S4G02 No Fire
1630	1411	2443	060041	S4G02,04 No Fire

1630	1412	2444	060041	S4G04 No Fire
1631	1416	2446	060041	S4G02 No Fire
1632	1419	2449	060041	S2G01, S4G02 No Fire
1633	1420	2450	060041	S4G02 No Fire
1634	1421	2453	060041	S4G04 No Fire
1635	1424	2456	060041	S4G04 No Fire
1636	1426	2458	060041	S3G10 DELTA TIMIMG 2.1ms
1637	1428	2460	060041	S4G02,04 No Fire
1638		2463	060041	S4 POWER CYCLE
1638		2464	060041	S4 Comon Error
1639		2465	060041	S2G3 No Fire
1640		2467	060041	S4G4 No fFire
1640		2468	060041	S4G4 No fFire
1641		2470	060041	S4G02,04 No Fire
1641		2472	060041	S4G4 No fFire
1642		2473	060041	S4G02 No Fire
		2475	060041	S4 POWER CYCLE S2G01 No Fire
		2476	060041	S4G04,08 No Fire
		2477	060041	S4G1-7 Common Error S4G8-10 No Fire
		2478	060041	
		2479	060041	
		2480	060041	
		2481	060041	
		2482	060041	
		2483	060041	
		2484	060041	
		2485	060041	
		24872488	060041	
		2489	060041	
		2490	060041	
		2491	060041	S4G4 No fFire
		2493	060041	S4G2, 3, 4 No Fire
1650		2494	060041	S4G2, 4 No Fire
1651		2496	060041	S4G2 No Fire
1651		2497	060041	S4G4 No Fire
1651		2498	060041	S4G2, 3, 4 No Fire
1652		2501	060041	S4G4 No fFire
1653		2502	060041	S4G2, 4 No Fire
1653		2503	060041	S4G2, 4 No Fire
1654		2504	060041	S4G2, 4 No Fire
1654		2505	060041	S3G5, S4G5 No Fire

1654		2506	060041	S3G5, S4G5 No Fire
1655		2507	060041	S4G1
		2508	060041	S4G2 No Fire
		2509	060041	S4G2,4 No Fire
		2510	060041	S2G1, S4G2 No Fire
		2511	060041	S4G2,4 No Fire
		2512	060041	S4G2 No Fire
		2513	060041	S4G2 No Fire
		2514	060041	S2G1, S4G2 No Fire
		2516	060041	S4G2,3 No Fire
		2517	060041	S2G3, S4G2,4 No Fire
		2518	060041	S4G3 No Fire
		2519	060041	S4G4 No Fire
		2520	060041	S2G6, S4G2,4 No Fire
		2522	060041	s4g02 no fire
		2523	060041	S4G2,4 No Fire
		2524	060041	S4G2 No Fire
		2525	060041	S4G2 No Fire
		2526	060041	S4G2,4 No Fire
		2527	060041	S4G2,4 No Fire
		2528	060041	S4G2 No Fire
		2529	060041	S4G2,4 No Fire
		2530	060041	S4G4 No Fire
		2531	060041	S4G2 No Fire
		2532	060041	S4G4 No Fire
		2534	060041	S4G2 No Fire
		2536	060041	S4G2 No Fire
		2537	060041	S2G3 S4G2 No Fire
		2538	060041	S4G2 No Fire
		2539	060041	S4G2,4 No Fire
		2541	060041	S4G3,4 No Fire
1708		2543	060041	S2G1 No Fire
1709		2544	060041	S4G2,4 No Fire
1709		2545	060041	S4G4 No Fire
1709		2546	060041	S4G2 No Fire
1710		2547	060041	S2G6 No Fire
1710	1518	2548	060041	S4G4 No Fire
1711		2551	060041	S4G3,4 No Fire
	1524	2555	060041	S4G2 No Fire
	1526	2557	060041	S4G2,4 No Fire
		2558	060041	S4G2 No Fire

		2561	060041	S4G4 No Fire
		2562	060041	S4G4 No Fire
		2563	060041	S4G2,4 No Fire
		2565	060041	S2G1 No Fire
		2567	060041	S4G3,4 No Fire
		2568	060041	S4G2 No Fire
		2569	060041	S4G2,4 No Fire
		2570	060041	S4G2 No Fire S4G4 -6.9ms
		2570	060041	S4G2,4 No Fire
		2571	060041	
		2572	060041	
		2573	060041	S2G1,S4G2 No Fire
		2574	060041	S2G1,S4G2 No Fire
		2575	060041	reboot DigiSHOT
			060041	
			060041	
			060041	
			060041	
			060041	
			060041	
			060041	
			060041	
			060041	
			060041	
			060041	
			060041	
			060041	
		2591	060041	S4G2,4 No Fire
		2592	060041	S4G2, No Fire
		2593	060041	S4G2 No Fire
		2594	060041	S4G4 No Fire
		2595	060041	S2G1 No Fire
		2597	060041	S4G2,4 No Fire
		2598	060041	S2G4 S4G2 No Fire
		2599	060041	S4G2 No Fire
		2600	060041	S3G1 No Fire
		2601	060041	S4G2,3 No Fire
		2602	060041	S2G4 S4G2 No Fire
		2603	060041	S4G2,3,4 No Fire
		2605	060041	S3G1 S4G2 No Fire
		2606	060041	S2G2 No Fire
		2607	060041	S4G1,2,4 No Fire
		2608	060041	S4G4 No Fire

		2610	060041	S4G2 No Fire
		2612	060041	S4G2,4 No Fire
		2614	060041	S4G2,4 No Fire
		2616	060041	S2G4 No Fire
		2617	060041	S4G2 No Fire
		2618	060041	S4G4 No Fire
		2621	060041	S4G2,4 No Fire
		2622	060041	S3G1 S4G2 No Fire
		2623	060041	S4G2,3,4 No Fire
		2624	060041	S4G4 No Fire
		2625	060041	S4G4 No Fire
		2626	060041	S4G3,4 No Fire
		2627	060041	S4G2 No Fire
		2628	060041	S4G4 No Fire
		2629	060041	S4G2 No Fire
		2630	060041	S4G4 No Fire
		2631	060041	S2G3 No Fire
		2632	060041	S4G1 No Fire
		2633	060041	S4G6 No Fire
		2634	060041	S4G4 No Fire
		2636	060041	S4G4 No Fire
		2637	060041	S4G2 No Fire
		2638	060041	S4G2 No Fire
		2639	060041	S2G3,6 S4G6 No Fire
		2643	060041	S3G3, S4G2 No Fire
		2645	060041	S2G2 No Fire
		2646	060041	S4G2 No Fire
		2647	060041	S4G2 No Fire
		2649	060041	S4G2 No Fire
		2651	060041	S4G2 No Fire
		2652	060041	S4G2 No Fire
		2653	060041	S4G4 No Fire
		2654	060041	S4G2,4 No Fire
		2656	060041	S4G2 No Fire
		2658	060041	S4G3,4 No Fire
		2659	060041	S2G3 No Fire
		2660	060041	S4G2,3 No Fire
		2661	060041	S4G2,4 No Fire
		2662	060041	S4G2 No Fire
		2663	060041	S2G1,2,3 S4 G2 No Fire
		2665	060041	S2G3 S4G2,4 No Fire

		2666	060041	S2G3 S4G3 S4G2,3 No Fire
		2667	060041	S2G2 S4G2,4 No Fire
		2668	060041	S2G1 S4G4 No Fire
		2670	060041	S2G1 S3G3 No Fire
		2671	060041	S4G2 No Fire
		2672	060041	S4G2,4 No Fire
		2675	060041	S4G2, No Fire
		2676	060041	S4G4 No Fire
		2677	060041	S2G1,6 S4G2,4 No Fire
		2679	060041	S4G2, No Fire
		2680	060041	S4G4, No Fire
		2681	060041	S4G2,4 No Fire
		2684	060041	S4G3, No Fire
		2685	060041	S4G2, No Fire
		2688	060041	S4G4, No Fire
		2689	060041	S4G2, No Fire
		2690	060041	S2G6 S4G2,4 No Fire
		2692	060041	S4G2, 4No Fire
		2693	060041	S3G1, S4G2, No Fire
		2696	060041	S2G3 S4G4, No Fire
		2697	060041	S2G3,4 S4G4, No Fire
		2698	060041	S3G1, S4G4, No Fire
		2699	060041	S4G2 No Fire
		2700	060041	S4G4 No Fire
		2701	060041	S4G2,3 No Fire
		2704	060041	S2G3, S4G2,4, No Fire
		2705	060041	S3G2 No Fire
		2706	060041	S3G2, S2G1,3,4, No Fire
	1679	2709	060041	S4G2 No Fire
	1680	2710	060041	S21,3,4 S3G2 S4G2 No Fire
	1681	2711	060041	S2G6, S4G2 No Fire
	1682	2712	060041	S4G2 No Fire
	1683	2713	060041	S4G2, S2G4 No Fire
	1684	2714	060041	S4G2,4 S2G4 No Fire
	1686	2716	060041	S4G2,4 S2G4 No Fire
	1687	2717	060041	S4G2 No Fire
	1688	2718	060041	S4G2 No Fire
	1689	2719	060041	S3G1, S4G1 No Fire
	1690	2720	060041	S4G5 No Fire
	1691	2721	060041	S2G3 S4G1 No Fire
	1692	2722	060041	S2G3 S4G5 No Fire

18:13	1695	2725	060041	S2G03 No Fire
18:13	1697	2727	060041	S3G3 S4G1 no fire
18:14	1699	2729	060041	S4G1 No Fire
18:15	1701	2731	060041	S4G2 delta 3.7ms
18:15	1702	2732	060041	S2G1 2 no fire S4G1 delta 3.7
18:15	1703	2733	060041	S4G01 delta -2.4ms
18:16	1704	2734	060041	S4G01no fire
18:16	1705	2735	060041	S4G01 no fire S2G02 delta 2.3ms
18:16	1706	2736	060041	S2G03 No Fire
18:17	1707	2737	060041	S2G03 S3G02 S4G03 05 no fire
18:17	1708	2738	060041	S4G02 no fire
18:19	1713	2743	060041	S2?G 01 03 06 S4G03 05 no fire
	1714	2744	060041	S4G04 no fire
	1719	2749	060041	S4G02 no fire
	1720	2750	060041	S3G01 no fire
	1722	2752	060041	S3G02 S4G04 no fire
	1727	2757	060041	S4G04 no fire
	1728	2758	060041	S3G03 nofire
	1729	2759	060041	S4G 01 02 no fire
	1730	2760	060041	S2G01 no fire
	1731	2761	060041	S2G01 S4G02 no fire
	1732	2762	060041	S2G01 S4G02 03 nofire
	1733	2763	060041	S2G01 03 S3G03 S4G02 no fire
	1734	2764	060041	S2G01 02 03 S4G02 no fire
	1735	2765	060041	S2G06 gun string 4 no fire
	1736	2766	060041	S4G01 02 04 no fire
	1737	2767	060041	S2G01 06 gun string 4 nofire
	1738	2768	060041	gun string 4 nofire
	1739	2769	060041	S4G04 no fire
	1740	2770	060041	S4G02 no fire
	1741	2771	060041	S2G06 S3G01 S4G04 no fire
	1743	2773	060041	S2G03 06 no fire
	1744	2774	060041	S2G03 S4G02 04 no fire
	1745	2775	060041	gun string 2 nofire
	1746	2776	060041	S2G0102030408 no fire
	1748	2778	060041	S4G02 no fire
	1750	2780	060041	S4G0 no fire
	1752	2782	060041	S4G03 No Fire
	1753	2783	060041	S3G02 S4G02 nofire
	1756	2786	060041	S3G02 no fire
	1758	2788	060041	S4G04 no fire

	1760	2790	060041	S2G10 no fire
	1761	2791	060041	S4G04 no fire
	1762	2792	060041	S4G02 no fire
	1764	2794	060041	S2G09 no fire
	1765	2795	060041	S4G02 no fire
	1767	2797	060041	S4G04 no fire
	1768	2798	060041	S2G08 no fire
	1769	2799	060041	S2G04 No Fire
	1771	2801	060041	S4G02 no fire
	1774	2804	060041	S3G02 S4G04 no fire
	1777	2807	060041	S4G02 no fire
	1778	2808	060041	S3G02 03 S4G03 no fire
	1779	2809	060041	S4G02 no fire
	1780	2810	060041	S1G05 no fire
	1781	2811	060041	S1G05 delta 7.2 ms S4G01 delta -2.3ms
	1784	2814	060041	S4G04 no fire
	1786	2816	060041	S3G2 No Fire
	1793	2823	060041	S3G03 nofire
	1796	2826	060041	S4G04 no fire
	1797	2827	060041	S4G04 no fire
	1800	2830	060041	S4G04 no fire
	1801	2831	060041	S4G04 no fire
	1801	2831	060041	S4G04 no fire
	1802	2832	060041	S4G04 no fire
	1806	2836	060041	S4G01 no fire
	1807	2837	060041	S3G02 no fire
	1809	2839	060041	S3G01 02 S4G04 no fire
	1816	2846	060041	S4G04 no fire
	1820	2850	060041	S4G04 no fire
	1821	2851	060041	S3G02 no fire
	1825	2855	060041	S4G04 no fire
	1827	2857	060041	S4G4 no fire
	1828	2858	060041	S4G04 no fire
	1830	2860	060041	S4G04 no fire
	1831	2861	060041	S4G04 no fire
	1832	2862	060041	S2G05 no fire
	1833	2863	060041	S3G02 no fire
	1834	2864	060041	S3G02 no fire
19:06	1849	2879	060041	S3G02 no fire
19:07	1852	2882	060041	S2G02 no fire
19:09	1857	2887	060041	S3G02 no fire

19:09	1859	2889	060041	S2G02 no fire
19:14	1874	2904	060041	S3G01 no fire
19:26	1905	2935	060041	S2G5 no fire
19:26	1906	2936	060041	S3G03 nofire
19:27	1908	2938	060041	S3G01 no fire
19:33	1927	2957	060041	S3G01 no fire
19:36	1935	2965	060041	S3G01 no fire
19:36	1936	2966	060041	S3G01 no fire
19:39	1944	2974	060041	S3G02 no fire
19:40	1947	2977	060041	S3G01 03 no fire
19:43	1955	2985	060041	S3G02 no fire
19:43	1957	2987	060041	S2G05 no fire
19:46	1963	2993	060041	S2G05 no fire
19:48	1968	3000	060041	S3G01 no fire
19:50	1975	3007	060041	S3G03 nofire
19:52	1978	3010	060041	S3G02 no fire
19:55	1987	3019	060041	S3G01 no fire
19:57	1992	3024	060041	S3G02 no fire
19:57	1993	3025	060041	S3G01 03 no fire
19:59	1999	3031	060041	S3G01 no fire
20:02	2006	3038	060041	S3G01 no fire
20:02	2008	3040	060041	S3G03 nofire
20:06	2018	3050	060041	S3G02 03 no fire
20:11	2031	3063	060041	S3G02 no fire
20:11	2032	3064	060041	S3G01 no fire
20:12	2034	3066	060041	S3G03 nofire
20:18	2051	3083	060041	S3G02 no fire
20:20	2058	3090	060041	S3G02 no fire
20:22	2062	3094	060041	S3G03 nofire
20:26	2074	3106	060041	S3G01 no fire
20:30	2085	3117	060041	S2G02 Delta 2.2 ms
20:30	2086	3118	060041	S3G01 no fire
20:31	2087	3119	060041	S3G01 no fire
20:31	2089	3121	060041	S3G02 no fire
20:33	2094	3126	060041	S3G02 03 no fire
20:33	2095	3127	060041	S3G02 no fire
20:35	2100	3132	060042	REEL CHANGE 060041-060042
20:41	2117	3149	060042	S3G02 no fire
20:42	2119	3151	060042	S3G01 no fire
20:44	2124	3156	060042	S3G02 no fire
20:49	2140	3172	060042	S3G02 no fire

21:01	2175	3207	060042	S3G01 no fire
21:03	2180	3212	060042	S3G02 no fire
21:04	2183	3215	060042	S3G03 nofire
21:06	2188	3220	060042	S3G03 nofire
21:08	2196	3228	060042	S3G01 no fire
21:16	2217	3249	060042	S3G02 03 no fire
21:19	2227	3259	060042	S2G02 no fire
21:24	2242	3274	060042	S3G02 no fire
21:27	2249	3281	060042	S2G02 no fire
21:28	2253	3285	060042	S3G03 nofire
21:29	2257	3289	060042	S3G02 no fire
21:30	2259	3291	060042	S3G01 no fire
21:33	2268	3300	060042	S3G03 nofire
21:34	2270	3302	060042	S2G03 No Fire
21:26	2275	3307	060042	S2G02 no fire
21:36	2277	3309	060042	S3G02 no fire
21:37	2279	3311	060042	S2G02 no fire
21:37	2280	3312	060042	S3G01 no fire
21:39	2287	3319	060042	S2G02 no fire
21:41	2292	3324	060042	S3G01 no fire
21:44	2299	3331	060042	S3G02 no fire
21:50	2318	3350	060042	S3G02 no fire
21:51	2321	3353	060042	S3G01 no fire
21:52	2323	3355	060042	S2G02 no fire
21:56	2336	3368	060042	S3G01 no fire
21:58	2342	3374	060042	S3G01 no fire
21:58	2344	3376	060042	S3G01 03 no fire
21:59	2345	3377	060042	S3G02 no fire
22:00	2348	3380	060042	S3G01 no fire
22:00	2349	3381	060042	S3G02 no fire
22:01	2351	3383	060042	S3G02 no fire
22:05	2363	3395	060042	S2G02 DELta 2.1 ms
22:08	2373	3405	060042	S3G02 no fire
22:14	2392	3424	060042	S3G03 nofire
22:24	2424	3456	060042	S3G01 no fire
22:26	2430	3462	060042	S3G01 no fire
22:29	2437	3469	060042	S3G02 no fire
22:33	2450	3482	060042	S3G01,S3G03 NO FIRE
22:37	2464	3496	060042	S3G02 no fire
22:38	2466	3498	060042	S2G05 NO
22:39	2468	3500	060042	S3G01 no fire

[illegible]

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczyński
Observers	

	SOL	EOL		
Tape #	060043	060043	FGSP	1111
SP #	1111	1400	LGSP	1400

Line	MGL0906_18A
Sequence	031
Direction	123

Streamer Parameters				
	1	2	3	4
Length			6000	
Auxiliaries				
Shotpoint Interval:			50	
Offset CS - CFG			161	
Group Interval:			12.5	
Number of channels			468	
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	15s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/24/09	05/24/09
Time UTC	23:29	01:23
Volume (cu in.)	4410	3300
Streamer Depth (m)	9	9
Wind (kts)	17	15
Sea State (ft)	5-7	5
Water Depth (m)	3315	4226

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL LAT 023 52.37614 N LONG 123 12.71656 E
SOL 3 strings 1,2,4 S4G02, S4G04 SPARED STRING 3 ONBOARD FOR REPAIRS
SOL BIRD 13 unable to maintain trim depth requires constant attention and adjustment.
01:08 STRING 4 RECOVERY maintenance and repairs new volume is 3300 in3
EOL LAT023 47.98658 N LONG 123 19.76509 E
Line Status:

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

[illegible]

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #	060044	060044	FGSP	1011
SP #	1011	1241	LGSP	1241

Line	MGL0906_18B
Sequence	032
Direction	180

Streamer Parameters				
	1	2	3	4
Length			6000	
Auxiliaries				
Shotpoint Interval:			50	
Offset CS - CFG			161	
Group Interval:			12.5	
Number of channels			468	
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	15s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/25/09	05/25/09
Time UTC	01:27	02:46
Volume (cu in.)	3300	3300
Streamer Depth (m)	9	9
Wind (kts)	15	15
Sea State (ft)	5	7
Water Depth (m)	4240	4557

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL LAT 023 47.72893 N LONG 123 19.90279 E
01:38 string 3 in position and firing sp 1044
01:41 string 3 dialed in volume is 5130 in3 SP1050
02:39 SECURED GUN STRING 3 FOR GUN STRING 4 DEPLOYMENT. SP 1221
02:46 EOL LAT 023 41.49934 N LONG 123 19.98851 E
Line Status:

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

[illegible]

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #	060045	060049	FGSP	1105
SP #	1104	4521	LGSP	4521

Line	MGL0906_22N
Sequence	033
Direction	301

Streamer Parameters				
	1	2	3	4
Length			6000	
Auxiliaries				
Shotpoint Interval:			50	
Offset CS - CFG			161	
Group Interval:			12.5	
Number of channels			468	
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	15s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/25/09	05/26/09
Time UTC	03:51	00:33
Volume (cu in.)	6600	6420
Streamer Depth (m)	9	9
Wind (kts)	15	10
Sea State (ft)	7	7
Water Depth (m)	4534	233

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments

03:51 SOL Lat 23d 38.90256 N lon 123d 17.38166 E SP 1104 File0001 Reel 060045
 07:36 Change reel 060045 to 060046 SP 180
 08:17 String 3 power cycle whole string no fire
 11:26 SP 2504 Reel change 060046 to 060047
 11:39 SP 2542 Lost compressors, sw to internal 20 sec. S1G3
 11:41 SP 2551 Restored compressor digishot display hung. But full array shooting on external.
 11:52 Restart Digishot
 11:57 SP 2592 Restored full power Digishot up. SP 2546 to 2585 questionable and 2586 to 2591 not fired or ?
 15:43 SP 3204 reel change 060047 to 060048
 20:19 REEL CHANGE SP3903 060048-060049
 21:10 NOISE ON CABLE FROM CURRENTS SP 4020
 NEW NOISE ON STREAMER SP4207 CHANNELS 370 FISHING GEAR SPOTTED
 valved closed on gun string 2 low pressure shots for SP4230,4231,4232

Line Status:

BIRD 13 out of spec at 11.3 meters SP 4288
 OBS CROSSING OBS T6 .01 SP 4314
 EOL LAT 024 25.79761 N LONG 121 50.49851 E
 LAST FILE 3418 REEL 060049

Abbreviations

SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Initiation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
03:51	1	1104	060045	SOL
03:51	1	1104	060045	S3G1, 2 NO FIRE
03:53	6	1109	060045	S3G3 no fire
03:55	10	1113	060045	S3G2 no fire
03:58	19	1122	060045	S2G3 no fire
03:59	22	1125	060045	S3G2 delta timing-2.3 ms.
04:01	28	1131	060045	S3G1 no fire
04:04	38	1141	060045	S2G3 no fire
04:04	39	1142	060045	S2G3 no fire
04:05	40	1143	060045	S3G3 no fire
04:07	47	1150	060045	S3G1 no fire
04:08	48	1151	060045	S3G1 no fire
04:09	53	1156	060045	S3G2 no fire
04:12	60	1163	060045	S3G1 no fire
04:12	61	1164	060045	S3G2 delta timing -3.5 ms.
04:13	62	1165	060045	S3G2 delta timing 2.2 ms.
04:14	67	1170	060045	S3G2 no fire
04:16	73	1176	060045	S3G1 no fire
04:18	77	1180	060045	S3G2 no fire
04:25	97	1200	060045	S2G3 no fire
04:25	99	1202	060045	S2G2 delta timing -2.1 ms.
04:26	102	1205	060045	S2G4 no fire
04:32	118	1221	060045	S3G4 no fire
04:38	134	1237	060045	S3G1 no fire
04:38	136	1239	060045	S3G4 no fire
04:42	147	1250	060045	S3G1,G3 no fire
04:43	150	1253	060045	S3G1 no fire
04:46	158	1261	060045	S3G1 no fire
04:49	167	1270	060045	S2G2 delta timing 2.4 ms.
04:51	173	1276	060045	S3G3 no fire
04:55	186	1289	060045	S3G3 no fire
04:58	195	1298	060045	S3G3 no fire
04:58	196	1299	060045	S3G2 no fire
05:00	203	1306	060045	S3G2 no fire
05:04	213	1316	060045	S3G1 no fire
05:06	220	1323	060045	S2G2 no fire
05:08	227	1330	060045	S2G2 delta timing 2.4 ms.
05:10	233	1336	060045	S2G2 no fire
05:11	235	1338	060045	S3G1 no fire
05:13	241	1344	060045	S3G4 no fire
05:13	242	1345	060045	S3G3 no fire
05:14	245	1348	060045	S2G3 no fire
05:15	247	1350	060045	S2G2,3,4 no fire
05:15	248	1351	060045	S3G4 no fire
05:17	256	1359	060045	S2G4 no fire
05:18	259	1362	060045	S3G3 no fire
05:19	262	1365	060045	S2G3 no fire
05:24	276	1379	060045	S2G3 no fire
05:26	282	1385	060045	S3G1 no fire
05:26	283	1386	060045	S3G3 no fire

05:27	288	1391	060045	S3G3 no fire
05:28	291	1394	060045	S3G1,3,4 no fire
05:32	303	1406	060045	S3G2 delta timing 2.2 ms.
05:40	330	1433	060045	S3G3 no fire
05:41	332	1435	060045	S2G1,S3G1 no fire
05:42	336	1439	060045	S3G2 delta timing -2.4 ms.
05:44	341	1444	060045	S3G1 no fire
05:45	345	1448	060045	S3G3 no fire
05:46	346	1449	060045	S3G2 no fire
05:49	356	1459	060045	S3G03 no fire
05:53	368	1471	060045	S3G02 no fire
05:53	370	1473	060045	S3G02 no fire
05:55	376	1479	060045	S3G02 no fire
05:55	377	1480	060045	S3G02 no fire
05:56	380	1483	060045	S3G04 no fire
05:57	382	1485	060045	S3G03 no fire
05:57	383	1486	060045	S3G01 no fire
05:58	384	1487	060045	S3G04 no fire
05:59	388	1491	060045	S2G04 no fire
05:59	389	1492	060045	S3G01 no fire
06:00	392	1495	060045	S3G02 no fire
06:01	394	1497	060045	S3G04 no fire
06:08	419	1522	060045	S3G04 no fire
06:09	421	1524	060045	S3G01 no fire
06:12	432	1535	060045	S3G02 no fire
06:13	433	1536	060045	S3G04 no fire
06:13	435	1538	060045	S3G01 no fire
06:15	441	1544	060045	S3G02 no fire
06:15	442	1545	060045	S3G02 no fire
06:16	444	1547	060045	S3G01 no fire
06:20	456	1559	060045	S3G01 no fire
06:25	471	1574	060045	S3G02 no fire
06:27	480	1583	060045	S3G04 no fire
06:33	498	1601	060045	S3G04 no fire
06:39	519	1622	060045	S3G03 no fire
06:41	524	1627	060045	S3G02 no fire
06:43	531	1634	060045	S2G03 no fire
06:44	535	1638	060045	S2G02 delta 2.1ms
06:46	542	1645	060045	S2G02 delta -2.2ms
06:57	576	1679	060045	S3G02 no fire
07:01	589	1692	060045	S3G03 no fire
07:03	597	1700	060045	S3G01 no fire
07:04	598	1701	060045	S3G01 no fire
07:04	599	1703	060045	S3G02 no fire
07:13	629	1732	060045	S3G04 no fire
07:15	633	1736	060045	S3G01 no fire
07:19	647	1750	060045	S3G03 no fire
07:20	649	1752	060045	S3G01 no fire
07:24	662	1765	060045	S3G02 no fire
07:28	673	1776	060045	S3G03 no fire
07:34	693	1796	060045	S3G02 no fire
07:36	701	1804	060046	Change reel 060045 to 060046

07:39	707	1810	060046	S3G01 no fire
07:39	709	1812	060046	S3G01 no fire
07:41	713	1816	060046	S3G02 no fire
07:43	721	1824	060046	S3G03 no fire
07:45	728	1831	060046	S3G01 no fire
07:47	733	1836	060046	S3G03 no fire
07:50	743	1846	060046	S3G01 no fire
07:51	746	1849	060046	S3G02 no fire
07:53	753	1856	060046	S3G03 no fire
07:55	758	1861	060046	S3G01 03 no fire
07:55	759	1862	060046	S3G01 no fire
07:56	762	1865	060046	S3G01 no fire
07:58	766	1869	060046	S3G02 03 no fire
07:59	771	1874	060046	S2G02 no fire
08:00	773	1876	060046	S3G01 no fire
08:03	783	1886	060046	S3G03 no fire
08:04	785	1888	060046	S3G02/S3G03/S3G04 no fire
08:06	790	1893	060046	S3G04 no fire
08:08	794	1894	060046	S2G02/S3G01 NO FIRE
08:10	803	1906	060046	S3G03 no fire
08:11	806	1909	060046	S3G01/S3G02 NO FIRE
08:12	808	1911	060046	S3G01/S3G03 NO FIRE
08:14	811	1914	060046	S3G01 NO FIRE
08:14	816	1919	060046	S3G01 no fire
08:15	818	1921	060046	Delta Timing -2.6ms
08:17	823	1926	060046	Power cycle whole string no fire String 3
08:22	839	1942	060046	S2G04 no fire
08:24	847	1950	060046	S3G02 Delta Timing 2.2 ms
08:25	848	1951	060046	S3G02 delta Timing -2.1 ms
08:55	945	2048	060046	S2G03 no fire
10:42	1275	2378	060046	S3G2 delta timing -2.3 ms.
10:50	1298	2401	060046	S2G03 no fire
10:58	1321	2424	060046	S2G02 delta 2.1ms
11:26	1401	2504	060047	Change reels 060046 to 060047
11:33	1421	2524	060047	S3G2 delta timing -2.1 ms.
11:39	1441	2544	060047	Lost compressor down to 1 gun S1G3
11:41	1455	2550	060047	compressor on digishot display locked but shooting full array!
11:52	~1472	~2575	060047	Restart Digishot
11:57	1489	2592	060047	Full power after Digishot restart.
13:05	1679	2782	060047	S2G4 no fire
13:08	1686	2789	060047	S2G2 delta timing 2.1ms
13:08	1687	2790	060047	S2G2 delta timing -2.1ms
13:56	1814	2917	060047	S2G2 delta timing 2.1ms
14:06	1839	2942	060047	S2G2 delta timing -2.2ms
14:29	1900	3003	060047	S3G2 delta timing -2.4ms
14:31	1906	3009	060047	S3G2 delta timing -2.1ms
14:43	1936	3039	060047	S2G4 no fire
15:04	1994	3097	060047	S2G4 no fire
15:08	2005	3108	060047	S2G2 delta timing 2.2ms
15:21	2042	3145	060047	S4G1 no fire
15:41	2097	3200	060047	S2G4 no fire
15:43	2101	3204	060048	Reel Change SP3204 060047 to 060048

15:45	2109	3212	060048	S2G4 no fire
16:18	2202	3305	060048	S3G2 delta timing -2.2ms
16:32	2240	3343	060048	S4G3 No Fire
16:41	2265	3368	060048	S4G1 No Fire
16:46	2277	3380	060048	S4G01, S4G03 NO FIRE
16:48	2284	3387	060048	S3G2 No Fire
16:59	2315	3418	060048	S4G3 No Fire
17:02	2325	3428	060048	S3G2 delta timing -2.2ms
17:10	2346	3449	060048	S4G3 No Fire
17:12	2351	3454	060048	S4G3 No Fire
17:18	2368	3471	060048	S4G3 No Fire
17:19	2372	3475	060048	S4G3 No Fire
17:24	2386	3489	060048	S4G01 NO FIRE
17:30	2401	3504	060048	bird 13 out of spec
17:35	2415	3518	060048	S4G2 No Fire
17:38	2425	3528	060048	S4G3 No Fire
17:39	2428	3531	060048	S4G2 No Fire
17:44	2441	3544	060048	S4G3 No Fire
17:54	2467	3570	060048	S4G3 No Fire
17:54	2468	3571	060048	S4G3 No Fire
17:55	2472	3575	060048	S4G3 No Fire
17:57	2477	3580	060048	S4G4 No Fire
17:58	2478	3581	060048	S4G3 No Fire
17:59	2480	3583	060048	S4G3 No Fire
18:00	2485	3588	060048	S4G4 No Fire
18:01	2487	3590	060048	S4G3 No Fire
18:02	2488	3591	060048	S4G1 No Fire
18:02	2489	3592	060048	S4G3 No Fire
18:04	2494	3597	060048	S4G03 No fire
18:07	2501	3604	060048	S4G03 no fire
18:07	2503	3606	060048	S4G03 no fire
18:08	2506	3609	060048	S4G03 no fire
18:10	2509	3612	060048	S4G03 no fire
18:11	2514	3617	060048	S4G01 03 no fire
18:12	2515	3618	060048	S4G03 no fire
18:17	2527	3630	060048	S4G01 no fire
18:18	2530	3633	060048	S4G04 no fire
18:20	2536	3639	060048	S4G01 02 no fire
18:27	2553	3656	060048	S4G03 No fire
18:31	2563	3666	060048	S4G03 no fire
18:35	2572	3675	060048	S4G02 04 no fire
18:36	2574	3677	060048	S4G02 no fire
18:37	2576	3679	060048	S4G02 no fire
18:42	2589	3691	060048	S4G02 no fire
18:44	2593	3696	060048	S4G02 no fire
18:47	2600	3703	060048	S3G02 delta -2.6ms
18:48	2603	3706	060048	S4G03 No fire
18:49	2606	3709	060048	S4G02 no fire
18:54	2617	3720	060048	gun string2 no fire
18:59	2629	3732	060048	S4G02 no fire
19:03	2637	3740	060048	S4G03 No fire
19:04	2640	3743	060048	S4G03 No fire

19:22	2676	3779	060048	S4G01 NO FIRE
19:37	2704	3807	060048	S4G03 No fire
19:37	2705	3808	060048	S3G02 delta 2.1ms
19:38	2706	3809	060048	S4G01 no fire
19:40	2711	3814	060048	S4G03 No fire
19:41	2713	3816	060048	S3G02 delta -2.2ms
19:42	2716	3819	060048	S3G02 delta 2.4ms S4G03 no fire
19:43	2718	3821	060048	S4G03 No fire
19:45	2722	3825	060048	S4G03 No fire
19:52	2737	3840	060048	S4G03 No fire
19:57	2749	3852	060048	S4G03 no fire
19:59	2753	3856	060048	S4G03 No fire
20:03	2762	3865	060048	S4G03 No fire
20:05	2767	3870	060048	S4G03 No fire
20:12	2771	3886	060048	S3G02 no fire
20:19	2800	3903	060048	S4G03 No fire
20:19	2800	3903	066648	REEL CHANGE SP3903 060048-060049
20:21	2793	3908	060049	S4G03 No fire
20:30	2824	3927	060049	S4G03 No fire
20:34	2834	3937	060049	S4G04 no fire
20:38	2843	3946	060049	S4G02,S4G03 NO FIRE
20:44:	2858	3961	060049	S4G03 No fire
20:44	2862	3965	060049	S4G04 no fire
20:47	2864	3967	060049	S4G01, S4G03 NO FIRE
20:51	2872	3975	060049	S4G01, S4G03 NO FIRE
20:52	2875	3978	060049	S4G01 NO FIRE
20:55	2881	3984	060049	S4G03 No fire
20:55	2882	3985	060049	S4G03 No fire
20:55	2883	3986	060049	S4G01 NO FIRE
20:58	2888	3991	060049	S4G02 no fire
20:59	2890	3993	060049	S4G02,S4G03 NO FIRE
21:00	2893	3996	060049	S4G03 No fire
21:02	2897	4000	060049	S4G04 no fire
21:03	2899	4002	060049	S4G03 No fire
21:03	2900	4003	060049	S4G02 no fire
21:03	2901	4004	060049	S4G03,S4G04 NO FIRE
21:06	2906	4009	060049	S4G01, S4G03 NO FIRE
21:06	2907	4010	060049	S4G03 No fire
21:08	2911	4014	060049	S4G04 no fire
21:15	2928	4031	060049	S4G01 NO FIRE
21:17	2933	4036	060049	S4G03 No fire
21:19	2938	4041	060049	S4G03 No fire
21:21	2942	4045	060049	S4G02 no fire
21:22	2945	4048	060049	S4G03 No fire
21:24	2950	4053	060049	S4G02 no fire
21:33	2972	4075	060049	S4G02 no fire
21:35	2976	4079	060049	S4G03 No fire
21:36	2978	4081	060049	S4G03 No fire
21:36	2979	4082	060049	S4G01 NO FIRE
21:37	2981	4084	060049	S4G02 no fire
21:40	2988	4091	060049	S4G03,S4G04 NO FIRE
21:41	2989	4092	060049	S4G03,S4G04 NO FIRE

21:42	2992	4095	060049	S2G02 DELTA 2.3 ms
21:10	2917	4020	060049	NOISE ON CABLE FROM CURRENTS
21:46	3002	4105	060049	S4G03 No fire
21:48	3007	4110	060049	S4G03 No fire
21:55	3024	4127	060049	S4G02 no fire
21:55	3025	4128	060049	S4G04 no fire
21:58	3030	4133	060049	S4G03 No fire
21:58	3031	4134	060049	S4G02 no fire
22:00	3037	4140	060049	S4G04 no fire
22:03	3043	4146	060049	S4G03 No fire
22:03	3044	4147	060049	S4G01 no fire
22:04	3045	4148	060049	S4G02 no fire
22:04	3046	4149	060049	S4G04 no fire
22:05	3049	4152	060049	S4G02,S4G03 NO FIRE
22:06	3050	4153	060049	S4G01,02,03,04 NO FIRE
22:06	3051	4154	060049	S4G02,03,04 NO FIRE
22:08	3056	4159	060049	S4G4 No Fire
22:08	3057	4160	060049	S4G4 No Fire
22:09	3058	4161	060049	S3G2 NO FIRE
22:09	3059	4162	060049	S2G4 NO FIRE
22:09	3060	4163	060049	S2G2 no fire
22:10	3061	4164	060049	S3G2,S4G2 NO FIRE
22:10	3062	4165	060049	S3G2 NO FIRE
22:11	3063	4166	060049	S4G1,2,3,4 NO FIRE
22:11	3064	4167	060049	S3G5 NO FIRE
22:12	3066	4169	060049	S4G3 No Fire
22:12	3067	4170	060049	S4G2 No Fire
22:13	3068	4171	060049	S4G3 No Fire
22:16	3076	4179	060049	S4G3 No Fire
22:18	3081	4184	060049	S4G4 No Fire
22:18	3082	4185	060049	S4G3 No Fire
22:20	3085	4188	060049	S4G03,S4G04 NO FIRE
22:20	3087	4190	060049	S4G03 No fire
22:21	3089	4192	060049	S4G03 No fire
22:22	3090	4193	060049	S2G04 no fire
22:22	3092	4195	060049	S4G01 NO FIRE
22:24	3095	4198	060049	S4G03 No fire
22:29	3107	4210	060049	S4G03 No fire
22:29	3108	4211	060049	S4G02,S4G03 NO FIRE
22:30	3112	4215	060049	S4G03 No fire
22:31	3113	4216	060049	S4G02 no fire
22:32	3116	4219	060049	S4G02 no fire
22:33	3118	4221	060049	S4G02 no fire
22:35	3123	4226	060049	S4G02 no fire
22:36	3125	4228	060049	S4G03 No fire
22:36	3126	4229	060049	S4G03 No fire
22:36	3127	4230	060049	S2G04,08,10 NO FIREvalved closed on gun string 2 low pressure shots for SP4230,4231,4232
22:37	3128	4231	060049	S2G02,04,08,10 NO FIRE
22:38	3130	4233	060049	S2G02 DELTA 2.2 ms
22:38	3132	4235	060049	S4G01,S4G03 NO FIRE
22:43	3144	4247	060049	S4G03 No fire

22:49	3158	4261	060049	S2G04 no fire
22:53	3167	4270	060049	S4G03 No fire
22:57	3177	4280	060049	S4G03 No fire
22:58	3179	4282	060049	S4G03 No fire
23:00	3185	4288	060049	S4G03 No fire
23:02	3188	4291	060049	S4G02 no fire
23:04	3194	4297	060049	S4G02 no fire
23:05	3197	4300	060049	S4G03 No fire
23:06	3199	4302	060049	S4G02 no fire
23:08	3204	4307	060049	S4G02 no fire
23:11	3211	4314	060049	OBS CROSSING OBS_T6_01
23:11	3212	4315	060049	S4G03 No fire
23:13	3217	4320	060049	S4G04 no fire
23:14	3218	4321	060049	S4G02 no fire
23:14	3219	4322	060049	S4G04 no fire
23:15	3221	4324	060049	S4G03 No fire

23:16	3224	4327	060049	S4G01,S4G03 NO FIRE
23:18	3227	4330	060049	S4G02 no fire
23:21	3238	4339	060049	S4G02 no fire
23:22	3240	4341	060049	S4G01 NO FIRE
23:24	3244	4345	060049	S4G02 no fire
23:26	3249	4350	060049	S4G03 No fire
23:27	3251	4352	060049	S4G02 no fire
23:30	3258	4359	060049	S4G02 no fire
23:30	3259	4360	060049	S4G03 No fire
23:31	3260	4361	060049	S4G03 No fire
23:33	3266	4367	060049	S4G02 no fire
23:34	3268	4369	060049	S4G02 no fire
23:35	3270	4371	060049	S4G02 no fire
23:36	3272	4373	060049	S4G02 no fire
23:37	3274	4375	060049	S4G02 no fire
23:37	3276	4377	060049	S4G03 No fire
23:39	3279	4380	060049	S4G02 no fire
23:40	3280	4383	060049	POWER CYCLE STRING 4 NO FIRE
23:39	3280	4381	060049	S4G03,S4G04 NO FIRE
23:40	3284	4385	060049	S4G02 no fire
23:41	3285	4386	060049	S4G02 no fire
23:42	3287	4388	060049	S4G02 no fire
23:48	3301	4404	060049	S4G03 No fire
23:50	3308	4411	060049	S4G03 No fire
23:53	3315	4418	060049	S4G02 no fire
23:54	3317	4420	060049	S4G02 no fire
23:56	3322	4425	060049	S4G03 No fire
00:01	3335	4438	060049	S4G03 NO FIRE
00:05	3345	4448	060049	S4G3 No Fire
00:06	3347	4450	060049	S4G3 No Fire
00:07	3348	4451	060049	S4G2 No Fire
00:08	3352	4454	060049	S4G3 No Fire
00:09	3355	4457	060049	S4G2 No Fire
00:10	3358	4460	060049	S4G3 No Fire
00:11	3359	4461	060049	S4G2,G3 NO FIRE
00:11	3361	4463	060049	S4G3 No Fire
00:14	3369	4471	060049	S4G3 No Fire
00:15	3370	4472	060049	S4G1,G2,G3 NO FIRE
00:18	3379	4481	060049	S4G2 No Fire
00:19	3380	4482	060049	S4G3 No Fire
00:20	3383	4485	060049	S4G2 No Fire
00:23	3390	4492	060049	S4G2,G3,G4 NO FIRE
00:23	3391	4493	060049	S4G2 No Fire
00:24	3395	4497	060049	S4G2,G4 NO FIRE
00:26	3399	4501	060049	S4G2,G3 NO FIRE
00:26	3400	4502	060049	S4G3,G4 NO FIRE
00:27	3402	4504	060049	S4G2,G3 NO FIRE
00:27	3403	4505	060049	S4G2 No Fire START OF TURN
00:31	3412	4514	060049	S4G3 No Fire
00:31	3414	4516	060049	S4G2 NO FIRE
00:33	3418	4520	060049	S4G2 NO FIRE
00:33	3418	4521	060049	S4G3 No Fire EOL LAT 024 25.79761 N LONG 121 50.49851 E

Observers Log

Vessel	Langseth
Client	Talger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #	060050	060053	FGSP	1073
SP #	1073	2808	LGSP	2808

Line	MGL0906_23
Sequence	034
Direction	120

Streamer Parameters				
	1	2	3	4
Length			6000	
Auxiliaries				
Shotpoint Interval:			50	
Offset CS - CFG			161	
Group Interval:			12.5	
Number of channels			468	
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	20s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/26/09	05/27/09
Time UTC	02:07	05:41
Volume (cu in.)	6600	6600
Streamer Depth (m)	9	9
Wind (kts)	13	20
Sea State (ft)	5	3-6
Water Depth (m)	1905	4009

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16 Port Outer hydrophone	

General / Line Comments
SOL LAT 024 23.40499 N LONG 121 54.83130 E
BIRD 13, BIRD 14 OUT OF SPEC TO 11.2 METERS SP1123
BIRD 13, BIRD 14 IN SPEC TO 9.8 METERS SP1139
04:21 OBS crossing T6_14 SP1207
06:32 OBS crossing T6_13 SP1327
08:43 OBS crossing T6_12 SP1447
10:44 OBS crossing T6_11 SP1567
11:15 Reel change 060050 to 060051 File 525 and SP 1597
12:03 Compressor fail, down to 1 gun.SP 1645
12:08 ER called just alarms, back to full lower1 SP649
12:09 Missed shot full array SP 1650
12:11 Full power SP 1651
Line Status:

12:45 OBS crossing T6_10 SP1687
14:29 OBS crossing T6_09 SP1808
16:17 OBS CROSSING OBS_T6_08
18:03 OBS CROSSING OBS_T6_07 SP2048
19:15 REEL CHANGE 060051-060052 SP2122
19:30 BIRD 14 MISSING PULSE ERROR AND MOTOR FAILURE
19:57 OBS CROSSING T6_06 SP 2168
22:46 OBS CROSSING T6_05 SP 2287
22:37 OBS CROSSING T6_04 SP2408
00:46 Bird 18 out of spec at 11.3 meters. PJ indicates OBS survey line so 1 bird out of spec is acceptable
01:25 OBS CROSSING OBS_T6_03 SP 2527
03:14 OBS CROSSING OBS_T6_02 SP 2648
03:13 REEL CHANGE 060052-060053 2647
05:04 OBS CROSSING OBS_T6_0 SP 2768
05:41 EOL SP 2808 File 1736 Reel 060053 Lat 23d23.103456N 123d 45.119797 E

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	LFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
02:07	1	1073	060050	LAT 024 23.40499 N LONG 121 54.83130 E
02:14	9	1081	060050	S4G2 no fire
02:17	12	1084	060050	S4G2 no fire
02:28	23	1095	060050	S4G3 no fire
02:31	27	1099	060050	S4G2 no fire
02:38	34	1106	060050	S4G3 no fire
02:39	35	1107	060050	S4G2 no fire
02:40	36	1108	060050	S4G2 no fire
02:43	39	1111	060050	S4G2 no fire
02:44	40	1112	060050	S4G2 no fire
02:48	44	1116	060050	S4G2 no fire
03:22	77	1149	060050	S4G2 no fire
03:27	82	1154	060050	S4G2 no fire
03:37	92	1164	060050	S4G2 no fire
03:40	94	1166	060050	S4G2 no fire
03:42	96	1168	060050	S4G4 no fire
03:44	98	1170	060050	S4G2 no fire
03:53	107	1179	060050	S4G4,G2 no fire
03:55	109	1181	060050	S4G2 no fire
04:00	114	1186	060050	S4G4,6,7,8, no fire
04:05	119	1191	060050	S4G2 no fire
04:07	121	1193	060050	S4G2 no fire
04:10	124	1196	060050	S4G2 no fire
04:11	125	1197	060050	S4G3 no fire
04:14	128	1200	060050	S4G2 no fire
04:16	130	1202	060050	S4G2 no fire
04:18	132	1204	060050	S4G2 no fire
04:19	133	1205	060050	S4G2 no fire
04:20	134	1206	060050	S4G2 no fire
04:21	135	1207	060050	S4G2,4 no fire OBS Crossing T6_14
04:22	136	1208	060050	S4G2 no fire
04:23	137	1209	060050	S4G2 no fire
04:28	142	1214	060050	S4G2 no fire
04:29	143	1215	060050	S4G2 no fire
04:30	144	1216	060050	S4G3 no fire
04:50	164	1236	060050	S2G3,4 no fire
05:09	182	1254	060050	S2G,4 no fire
05:14	186	1258	060050	S2G3,4 no fire
05:24	195	1267	060050	S2G4,no fire

05:31	201	1273	060050	S2G2,3,4,no fire
05:35	203	1275	060050	S2G4,no fire
05:36	204	1276	060050	S4G2,no fire
05:37	207	1279	060050	S2G2,3,4,no fire
05:41	210	1282	060050	S2G2 delta timing 2.5 ms
05:43	212	1284	060050	S2G3,4,no fire
05:51	219	1291	060050	S2G2,4,no fire
05:58	225	1297	060050	S2G3,4,no fire
05:59	226	1298	060050	S2G4,no fire
06:00	227	1299	060050	S2G4,no fire
06:01	228	1300	060050	S2G5 delta timing 2.2 ms
06:03	230	1302	060050	S2G5 ,no fire
06:04	231	1303	060050	S2G3,5 ,no fire
06:05	232	1304	060050	S2G2 ,no fire
06:08	234	1306	060050	S2G5 ,no fire
06:11	237	1309	060050	S2G3,5 ,no fire
06:13	239	1311	060050	S2G2,3,5 ,no fire
06:15	241	1313	060050	S2G3 ,no fire
06:17	243	1315	060050	S2G5 ,no fire
06:18	244	1316	060050	S2G2,3,5 ,no fire
06:20	246	1318	060050	S2G3,5 ,S4G2,no fire
06:21	247	1319	060050	S2G3,5 ,no fire
06:24	250	1321	060050	S2G2,3,5 ,no fire
06:25	251	1322	060050	S2G2,3,5 ,no fire
06:26	252	1323	060050	S2G2,3,5 ,no fire
06:27	253	1324	060050	S2G2,3,5 ,no fire
06:29	255	1326	060050	S2G4 ,delta timing 6.1 ms
06:32	256	1327	060050	OBS Crossing T6_13
06:33	257	1329	060050	S2G2,3,4 ,no fire
06:34	258	1330	060050	S2G3,no fire
06:36	260	1332	060050	S2G4,no fire
06:39	262	1334	060050	S2G3,4 ,no fire
06:40	263	1335	060050	S2G4,no fire
06:41	264	1336	060050	S2G4 no fire
06:42	265	1337	060050	S2G3,4 no fire
06:43	266	1338	060050	S2G3 no fire
06:44	267	1339	060050	S2G4 no fire
06:45	268	1340	060050	S2G2,4 S4G4 no fire
06:47	269	1341	060050	S2G2,3,4 no fire
06:48	270	1342	060050	S2G4 no fire
06:49	271	1343	060050	S4G2 no fire

06:50	272	1344	060050	S4G2 no fire
06:51	273	1345	060050	S2G2,3,4 no fire
06:52	274	1346	060050	S2G2,3,4 no fire
06:54	275	1347	060050	S2G3,4 no fire
06:57	278	1350	060050	S2G2,3,4 no fire
06:58	279	1351	060050	S2G3,4 no fire
06:59	280	1352	060050	S2G3,4 no fire
07:00	281	1353	060050	S2G2,3,4 no fire
07:02	282	1354	060050	S2G3,4 no fire
07:03	283	1355	060050	S2G3,4 no fire
07:04	284	1356	060050	S2G3,4 no fire
07:06	286	1358	060050	S2G3,4 no fire
07:07	287	1359	060050	S2G3,4 no fire
07:08	288	1360	060050	S2G3,4 no fire
07:13	292	1364	060050	S2G2,3,4,no fire
07:15	294	1366	060050	S4G2 no fire
07:19	298	1370	060050	S2G2 03 04 no fire
0721	299	1371	060050	S2G2 03 04 no fire
07:23	301	1373	060050	S2G2 03 04 no fire
07:24	302	1374	060050	S2G4 no fire
07:25	303	1375	060050	S2G2 03 04 no fire
07:26	304	1376	060050	Power cycle S2 no fire whole string
07:56	331	1403	060050	S2G3 no fire
07:59	333	1405	060050	S2G9 no fire
08:01	335	1407	060050	S2G2 03 04 no fire
08:10	344	1416	060050	S2G3 no fire
08:30	362	1434	060050	S2G8 no fire
08:37	369	1441	060050	S2G3,4 no fire
08:43	375	1447	060050	OBS Crossing T6_12
09:08	400	1472	060050	S4G2 no fire
09:15	407	1479	060050	S2G3/S2G4 no fire
09:44	436	1508	060050	S2G2 Delta Timing 2.1 ms
10:42	493	1565	060050	S2G3,4 no fire
10:44	495	1567	060050	OBS Crossing T6_11
11:15	525	1597	060051	Change Reel 060050 to 060051
11:30	540	1612	060051	S2G8 no fire
11:33	543	1615	060051	S2G10 no fire
11:36	546	1618	060051	S3G2 Delta Timing 2.2 ms
11:57	566	1638	060051	S2G3 no fire
12:03	573	1645	060051	Comprssor failure down to 1 gun 20 sec internal alarms going off.
12:06	575	1647	060051	Back to external triggers

12:08	577	1649	060051	Back to full power
12:09	578	1650	060051	no fire whole array
12:11	579	1651	060051	Back to full power
12:11	580	1652	060051	S3G2 Delta Timing 2.6 ms
12:41	611	1683	060051	S2G2,G4 no fire
12:45	615	1687	060051	OBS Crossing T6_10
12:52	622	1694	060051	S2G3,G10 no fire
13:21	656	1728	060051	S2G3 no fire
13:29	665	1737	060051	S2G3 no fire
13:29	666	1738	060051	S2G4 no fire
13:32	669	1741	060051	S2G2,G3 no fire
13:36	674	1746	060051	S2,G3 no fire
13:37	675	1747	060051	S2,G3 no fire
13:38	676	1748	060051	S2G2,3,4,10 no fire
14:03	706	1778	060051	S2G2 no fire
14:08	713	1785	060051	S2G1,2,3 no fire
14:15	720	1792	060051	S2G3,4 no fire
14:29	736	1808	060051	OBS T6_09 crossing
14:31	738	1810	060051	S3G2 Delta Timing -2.3 ms
15:17	789	1861	060051	S2G2,3,4 no fire
15:18	790	1862	060051	S2G2,3 no fire

15:44	819	1891	060051	S2G2,3 no fire
15:45	821	1893	060051	S2G2,3,4 no fire
15:46	822	1894	060051	S2G2,3,4 no fire
15:50	816	1888	060051	S2G3,4 no fire
15:56	833	1905	060051	S2G2,3,4 no fire
15:57	834	1906	060051	S4G1 no fire
16:04	841	1913	060051	S2G2,G3,G4 no fire
16:17	856	1928	060051	OBS CROSSING OBS_T6_08
16:21	860	1932	060051	S2G2 no fire
16:25	864	1936	060051	S2G2 no fire
16:31	871	1943	060051	S2G2,G3,G4 no fire
16:35	875	1947	060051	S2G3 no fire
16:37	877	1949	060051	S2G3 no fire
16:42	883	1955	060051	S2G4 no fire
16:43	884	1956	060051	S2G2,3 no fire
16:50	892	1964	060051	S2G2,G3,G4 no fire
16:52	894	1966	060051	S2G2,3 no fire
16:59	901	1973	060051	S2G2,G3,G4 no fire
17:00	902	1974	060051	S2G3 no fire
17:19	923	1995	060051	S2G4 NO FIRE
17:36	941	2013	060051	S2G1,2,3,4 NO FIRE
17:41	946	2018	060051	S2G3,4 NO FIRE
17:53	960	2032	060051	S2G2,3,4 NO FIRE
17:55	962	2034	060051	S2G3,4 NO FIRE
17:57	964	2036	060051	S2G2,3,4 NO FIRE
17:58	965	2037	060051	S2G2 no fire
18:01	969	2041	060051	S2G2,3,4 NO FIRE
18:02	970	2042	060051	S2 power cycle
18:03	976	2048	060051	OBS CROSSING OBS_T6_07 SP2048
18:20	989	2061	060051	S2G01 09 no fire
18:22	991	2063	060051	S2G09 no fire
18:25	995	2067	060051	S2G03 no fire
18:30	1000	2072	060051	S2G03 04 no fire
18:37	1008	2080	060051	S2G03 04 09 no fire
18:40	1012	2084	060051	S2G02030410 no fire
18:56	1029	2101	060051	S4G09 no fire
18:57	1030	2102	060051	S2G02 03 04 no fire
19:06	1040	2112	060051	S2G02 no fire
19:12	1047	2119	060051	S2G02 03 no fire
19:15	1050	2122	060051	S2G 02 03 04 no fire REEL CHANGE 060051-060052
19:18	1053	2125	060052	S2G 02 03 04 no fire

19:21	1057	2129	060052	S2G03 04 no fire
19:35	1072	2144	060052	S2G10 no fire
19:50	1088	2160	060052	S2G03 04 no fire
19:59	1099	2171	060052	S2G03 04 no fire
19:57	1096	2168	060052	OBS CROSSING T6_06 SP 2168
20:14	1115	2187	060052	S2G02 no fire
20:22	1124	2196	060052	S2G01,02,03,04 no fire
20:29	1131	2203	060052	S2G03 no fire
20:30	1133	2205	060052	S2G09 no fire
20:31	1134	2206	060052	S2G01,02,03,04 no fire
20:33	1136	2208	060052	S2G03,04 no fire
20:35	1138	2210	060052	S2G02,04 no fire
20:36	1139	2211	060052	S2 power cycle, no fire
20:37	1140	2212	060052	S2G02 no fire
20:44	1148	2220	060052	S2G06 no fire
20:59	1164	2236	060052	S2G03 no fire
21:01	1166	2238	060052	S2G03,04 no fire
21:05	1171	2243	060052	S2G02,03,04 no fire
21:11	1177	2249	060052	S2G10 no fire
21:13	1179	2251	060052	S2 no fire
21:16	1183	2255	060052	S2G04,09 no fire
21:28	1196	2268	060052	S2G10 no fire
21:34	1202	2274	060052	S2G10 no fire
21:43	1211	2283	060052	S2G04 no fire
21:44	1213	2285	060052	S3G02 delta -2.2 ms
21:46	1215	2287	060052	OBS CROSSING T6_05 SP 2287
21:47	1216	2288	060052	S2G04 no fire
21:49	1218	2290	060052	S2G04 no fire
22:05	1235	2307	060052	S3G02 delta -2.6 ms
22:07	1237	2309	060052	S2G10 no fire
22:17	1248	2320	060052	S3G02 delta -2.3 ms
22:20	1252	2324	060052	S3G02 delta -2.2 ms
22:22	1254	2326	060052	S2G04 no fire
22:38	1271	2343	060052	S2G04 no fire
22:43	1277	2349	060052	S3G02 delta -2.6 ms
22:47	1281	2353	060052	S3G02 delta -2.3 ms
22:49	1283	2355	060052	S2G02 delta -2.5 ms
23:17	1314	2386	060052	S2G04 no fire
23:28	1326	2398	060052	S2G03 no fire
23:49	1349	2421	060052	S2G02/S2G03/G2G04 NO FIRE
23:56	1356	2428	060052	S4G01 no fire

00:13	1375	2447	060052	S4G1 no fire
00:15	1377	2449	060052	S3G2 Delta Timing 2.6 ms
00:38	1403	2475	060052	S4G1 no fire
00:44	1409	2481	060052	S2G2,G3,G4 no fire
00:49	1415	2487	060052	S2G2,G3,G4 no fire
01:05	1432	2504	060052	S2G3 no fire
01:25	1455	2527	060052	OBS CROSSING OBS_T6_04 SP 2527
01:34	1465	2537	060052	S2G10 no fire
01:35	1466	2538	060052	S2G4 no fire
01:37	1468	2540	060052	S2G3,G4 no fire
01:50	1483	2555	060052	S2G3,G4 no fire
01:53	1486	2558	060052	S2G2 no fire
01:56	1489	2561	060052	S2G4 no fire
01:57	1490	2562	060052	STRING2 NO FIRE
02:01	1495	2567	060052	S2G2,G3,G4 no fire
02:23	1519	2591	060052	S2G4 no fire
02:33	1530	2602	060052	S2G3 no fire
02:36	1534	2606	060052	S2G3 no fire
02:38	1536	2608	060052	S2G2,G3 no fire
02:41	1539	2611	060052	S2G2,G3,G4,G9 no fire
02:43	1542	2614	060052	S2G7 no fire
02:49	1548	2620	060052	S2G02 delta 2.3 ms
02:53	1553	2625	060052	S2G3,G4 no fire
02:57	1557	2629	060052	S2G2,G3,G4 no fire
02:58	1558	2630	060052	S2G10 no fire
03:00	1561	2633	060052	S2G4 no fire
03:01	1562	2634	060052	S2G4 no fire
03:14	1576	2648	060053	S2G2,G3,G4 no fire reel change
03:15	2577	3649	060053	S2G4 no fire
03:17	1579	2651	060053	S2G4 no fire
03:20	1583	2655	060053	S2G2 no fire
03:21	1584	2656	060053	S2G2,3 no fire
03:31	1595	2667	060053	S2G3 no fire
03:33	1597	2669	060053	S2G2,G3,G4 no fire
03:39	1604	2676	060053	S2G3 no fire
03:46	1611	2683	060053	S2G3,G4 no fire
03:53	1619	2691	060053	S2G3,G4 no fire
03:56	1623	2695	060053	S2G2 no fire
04:02	1629	2701	060053	S2G2,G3,G4 no fire
04:05	1632	2704	060053	S2G3,G4 no fire
04:12	1640	2712	060053	S2G2,G3,G4,G7 no fire

04:16	1644	2716	060053	S2G3,G4 no fire
04:18	1646	2718	060053	S2G3,G4 no fire
04:22	1650	2722	060053	S2G3,G4 no fire
04:23	1652	2724	060053	S2G2,G3,G4 no fire
04:26	1655	2727	060053	S2G4 no fire
04:27	1656	2728	060053	S2G2,G3,G4 no fire
04:34	1663	2735	060053	S2G3 no fire
04:35	1664	2736	060053	S2G2,G3,G4 no fire
04:36	1665	2737	060053	S2G4 no fire
04:37	1667	2739	060053	S2G2 no fire
04:42	1672	2744	060053	S2G4 no fire
04:45	1675	2747	060053	S2G2,G3,G4 no fire
04:48	1678	2750	060053	S2G3,G4 no fire
04:52	1683	2755	060053	S2G2,G3,G4 no fire
04:55	1686	2758	060053	S2G2,G3,G4 no fire
04:56	1687	2759	060053	S2G4 no fire
05:04	1696	2768	060053	S2G2,3,4 No Fire OBS crossing T6_01
05:09	1702	2774	060053	S2G1,4 no fire
05:14	1707	2779	060053	S2G2,4 no fire
05:17	1711	2783	060053	S2G2,4 no fire
05:24	1718	2790	060053	S2G2,3,4 No Fire
05:25	1719	2791	060053	S2G2,3,4 No Fire
05:26	1720	2792	060053	S2G2,3,4 No Fire
05:28	1723	2795	060053	S2G3,4 no fire
05:41	1736	2808	060053	EOL MGL09_06_023_S034
	-1072		060053	

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #	060054	060060	FGSP	942
SP #	942	5546	LGSP	5546

Line	MGL0906_24
Sequence	035
Direction	180

Streamer Parameters				
	1	2	3	4
Length			6000	
Auxiliaries				
Shotpoint Interval:			50	
Offset CS - CFG			161	
Group Interval:			12.5	
Number of channels			468	
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	15s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/27/09	05/28/09
Time UTC	08:34	11:
Volume (cu in.)	6600	6600
Streamer Depth (m)	9	9
Wind (kts)	20	13
Sea State (ft)	3-6	3-6
Water Depth (m)	4432	5406

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments
08:22 All 4 strings powered up
08:34 SOL SP942 File 0003 Lat 23d25.5378 N 123d45.0095E
13:29 sp 1639 Reel Change 060054 to 060055 File # 701
16:09 DIGISHOT FAILURE/SHUTDOWN SP2019
16:28 S1G02 SPARED DUE TO FAILURE SPARED S1G05 ACTIVE /S2G03 FAILURE SPARED/ S2G05 ACTIVE
S2G05 FAILURE S3G05 ACTIVE NEW VOLUME 6560
17:49REEL CHANGE 060055-060056 SP02338
18:50 SPARED S204 ACTIVE S4G05 SP2683
21:52 reel change 060056-060057 SP2039
01:06 String 1 and string 2 powered down for recoery and reapi SP3680 New Volume 3660
03:20 String 1 deployed and in position SP4052 VOLUME is 5420 in3
03:41 String 2 deployed and in position SP4102 Volume 6600
Line Status:

03:43 Streamer in position SP4109
01:25 Reel Change 060057 to 060058 File 2801 SP 3740
05:27 Reel Change 060058 to 060059 File 3501 SP 4440
09:03 Reel Change 060059 to 060060 File 4201 SP 5140
11:06 EOL LAT 21D20.785 N LON 123D 44.244 E Seas 3-6 ft. Wind 10 kts.Depth 5406 Hdt 180 SMG5.2 kts.Fth -3.6 degrees

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	LFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Initiation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
08:42	0003	942	060054	SOL MGL09_06_024_Seq_035
08:37	11	949	060054	S2G10 no fire
08:39	16	954	060054	S2G9,G10 no fire
08:41	22	960	060054	S2G10 no fire
08:42	24	962	060054	S2G9 no fire
08:43	25	963	060054	S2G2 no fire
08:47	35	973	060054	S2G1 no fire
08:48	38	976	060054	S2G9 no fire
08:51	45	983	060054	S2G3,G6 no fire
08:53	50	988	060054	S2G2,G3,G9 no fire
08:53	52	990	060054	S2G6 no fire
08:54	54	992	060054	S2G9,G10 no fire
08:56	58	996	060054	S2G10 no fire
08:57	61	999	060054	S2G6 no fire
08:58	63	1001	060054	String 2 Power cycle no fire
09:01	70	1008	060054	S2G8 no fire
09:01	71	1009	060054	S2G6 no fire
09:02	72	1010	060054	S1G2 no fire
09:03	75	1013	060054	S2G9 no fire
09:04	77	1015	060054	S2G3,G8 no fire
09:04	78	1016	060054	S2G3 no fire
09:06	82	1020	060054	S2G3 no fire
09:06	83	1021	060054	S2G3 no fire
09:07	86	1024	060054	S2G7 no fire
09:08	87	1025	060054	S2G7,G8 no fire
09:08	88	1026	060054	S2G3,G8 no fire
09:10	91	1029	060054	S2G3,G9 no fire
09:10	93	1031	060054	S2G3 no fire
09:11	95	1033	060054	S2G3,G9 no fire
09:12	98	1036	060054	S2G3
09:13	100	1038	060054	S2G8 no fire
09:15	106	1044	060054	S2G2 no fire
09:17	109	1047	060054	S2G8,G9 no fire
09:18	112	1050	060054	S1G2 delta 7.3 ms
09:18	113	1051	060054	S1G2, S2G3 no fire
09:19	114	1052	060054	S1G2 no fire
09:19	116	1054	060054	S1G2, S2G9 no fire
09:20	117	1055	060054	S1G2 no fire
09:20	118	1056	060054	S1G2 no fire

09:21	119	1057	060054	S1G2, S2G2,G3 no fire
09:21	120	1058	060054	S1G2 no fire
09:21	121	1059	060054	S1G2 no fire
09:22	122	1060	060054	S1G2;S2G3 no fire
09:22	123	1061	060054	S1G2 no fire
09:22	124	1062	060054	S1G2 no fire
09:23	125	1063	060054	S1G2;S2G2,G6,G9 no fire
09:24	126	1064	060054	S1G2 no fire
09:24	127	1065	060054	S1G2;S2G6 no fire
09:24	128	1066	060054	S1G2 no fire
09:24	129	1067	060054	S1G2 no fire
09:25	130	1068	060054	S1G2 no fire
09:25	131	1069	060054	S1G2 no fire
09:26	132	1070	060054	S1G2; S2G3 no fire
09:26	133	1071	060054	S1G2 no fire
09:26	134	1072	060054	S1G2; S2G2 no fire
09:27	135	1073	060054	S1G2 no fire
09:27	136	1074	060054	S1G5; S2G5 no fire
09:27	137	1075	060054	S1G5 Delta -2.9 ms
09:28	139	1077	060054	S2G5 no fire
09:29	142	1080	060054	S2G10 no fire
09:30	143	1081	060054	S2G5,06,10 no fire
09:31	146	1084	060054	S2G1,06 no fire
09:32	148	1086	060054	S2G5 no fire
09:33	152	1090	060054	S2G5 no fire
09:34	154	1092	060054	S2G4,05,09 no fire
09:35	157	1095	060054	S2G9 no fire
09:36	159	1097	060054	S2G5,08 no fire
09:38	163	1101	060054	S2G5 no fire; S3G2 Delta 2.1ms
09:39	167	1105	060054	S2G5,09 no fire
09:41	170	1108	060054	S2G5,08 no fire
09:41	171	1109	060054	S2G5 no fire
09:41	172	1110	060054	S2G5 no fire
09:43	176	1114	060054	S2G4 no fire
09:44	179	1117	060054	S2G5 no fire
09:46	184	1122	060054	S2G9 no fire
09:47	186	1124	060054	S2G5/S2G9 no fire
09:48	189	1127	060054	S2G8 no fire
09:50	192	1130	060054	S2G9/S2G5/S2G10 no fire
09:52	194	1132	060054	S2G9/S2G5/S2G10 no fire
09:53	197	1135	060054	S2G5/06/07 no fire

09:53	199	1137	060054	S2G5/06/09 no fire
09:54	202	1140	060054	S2G5 no fire
09:56	206	1144	060054	S2G5 no fire
09:57	209	1147	060054	S2G6 no fire
09:59	213	1151	060054	S2G6 no fire
10:00	216	1154	060054	S2G2 no fire
10:01	217	1155	060054	S2G2,5,8,9 no fire
10:01	218	1156	060054	S2G5,9 no fire
10:04	227	1165	060054	S2G8,9 no fire
10:08	237	1175	060054	S2G8 no fire
10:09	238	1176	060054	S2G8 no fire
10:12	246	1184	060054	S2G2 no fire
10:14	250	1188	060054	S2G10 no fire
10:16	256	1194	060054	S2G8 no fire
10:17	258	1196	060054	S2G4 no fire
10:22	269	1207	060054	S3G2 no fire
10:22	270	1208	060054	S2G2/9 no fire
10:23	272	1210	060054	S2G6/9 no fire
10:24	273	1211	060054	S2G2/8/9 no fire
10:25	277	1215	060054	S2G5 no fire
10:26	279	1217	060054	S2G5 no fire
10:28	283	1221	060054	s2g5/6 no fire
10:28	284	1222	060054	S2G9 no fire
10:36	300	1238	060054	S2G9 no fire
10:36	302	1240	060054	S2G5 no fire
10:37	303	1241	060054	S2G8 no fire
10:38	305	1243	060054	s2G7
10:39	307	1245	060054	S2G5 no fire
10:39	308	1246	060054	s2g5/6/7/8/9 no fire
10:40	310	1248	060054	S2G5,8,10 no fire
10:41	311	1249	060054	S2G8
10:42	314	1252	060054	S2G4,5,8 no fire
10:43	316	1254	060054	S2G9 no fire
10:43	317	1255	060054	s2g5/6 no fire
10:44	319	1257	060054	s2g8/9 no fire
10:46	321	1259	060054	S2G5 no fire
10:46	322	1260	060054	S2G4,5,8 no fire
10:47	326	1264	060054	S2G7,9 no fire
10:48	327	1265	060054	S2G10 no fire
10:49	330	1268	060054	S2G5 no fire
10:50	331	1269	060054	S2G9 no fire

10:55	343	1281	060054	S2G8,09 no fire
10:56	344	1282	060054	S2G9,G10 no fire
10:56	346	1284	060054	S2G9 no fire
10:57	348	1286	060054	S2G5,08 no fire
10:58	350	1288	060054	S2G4,G5,G7,G8,G9 no fire
10:59	352	1290	060054	S3G2 Delta 2.2 ms
11:00	354	1292	060054	S2G5 no fire
11:02	358	1296	060054	S2G5 no fire
11:03	360	1298	060054	S2G5,G6,10 no fire
11:04	362	1300	060054	S2G2,G4,G5,G6 no fire
11:04	363	1301	060054	S2G5,06 no fire
11:05	366	1304	060054	S2G5,G10 no fire
11:06	367	1305	060054	S2G9 no fire
11:07	371	1309	060054	S2g4,5 no fire
11:08	372	1310	060054	S2G2,G4,G5 no fire
11:08	373	1311	060054	S2G2,G4,G5 no fire
11:10	376	1314	060054	S2G5,9 no fire
11:10	377	1315	060054	S2G4,5,8 no fire
11:11	380	1318	060054	S2G4,05 no fire
11:12	381	1319	060054	S2G2,04,05 no fire
11:13	383	1321	060054	S2G2,04,05 no fire
11:13	385	1323	060054	S2G2,04,05 no fire
11:14	387	1325	060054	S2G4,05,08 no fire
11:15	388	1326	060054	S2G5 no fire
11:15	389	1327	060054	S2G5,08,09 no fire
11:16	390	1328	060054	S2G5,G9,G10 no fire
11:16	391	1329	060054	S2G4,G5,G6,G9 no fire
11:16	392	1330	060054	S2G4,G5 no fire
11:18	395	1333	060054	S2G4,G10 no fire
11:18	396	1334	060054	S2G5 no fire
11:19	398	1336	060054	S2G5 no fire
11:20	401	1339	060054	S2G5,G9 no fire; S3G2 delat -2.4 ms
11:21	402	1340	060054	S2G4,G5 no fire
11:22	404	1342	060054	S2G4,G5 no fire
11:22	405	1343	060054	S2G5 no fire
11:23	407	1345	060054	S2G5 no fire
11:23	408	1346	060054	S2G5 no fire
11:24	409	1347	060054	S2G2,G4,G5,G8,G10 no fire
11:24	410	1348	060054	S2G5 no fire
11:25	411	1349	060054	S2G4,G10 no fire
11:25	412	1350	060054	S2G5,G10 no fire

11:27	417	1355	060054	S2G5 no fire
11:32	427	1365	060054	S2G5 no fire
11:34	433	1371	060054	S2G5 no fire
11:35	434	1372	060054	S2G4 no fire
11:37	439	1377	060054	S2G5 no fire
11:38	441	1379	060054	S2G5 no fire
11:39	445	1383	060054	S2G5 no fire
11:40	446	1384	060054	S2G5 no fire
11:41	449	1387	060054	S2G9 no fire
11:42	450	1388	060054	S2G5 no fire
11:43	453	1391	060054	S2G8,G10 no fire
11:44	455	1393	060054	S2G6 no fire
11:45	458	1396	060054	S2G5 no fire
11:46	460	1398	060054	S2G1 no fire
11:48	464	1402	060054	S2G5 no fire
11:50	468	1406	060054	S2G2,G5 no fire
11:50	469	1407	060054	S2G4,G9 no fire
11:51	472	1410	060054	S2G5 no fire
11:52	474	1412	060054	S2G5,G6 no fire
11:53	475	1413	060054	S2G5 no fire
11:54	479	1417	060054	S2G5,G6 no fire
11:55	481	1419	060054	S2G5,G6 no fire
11:56	483	1421	060054	S2G5 no fire
11:56	484	1422	060054	S2G5,08,09 no fire
11:58	487	1425	060054	S2G8 no fire
11:58	488	1426	060054	S2G5,G8 no fire
11:59	490	1428	060054	S2G5 no fire
11:59	491	1429	060054	S2G5 no fire
12:02	496	1434	060054	S2G5,G6,G8,G9 no fire
12:02	497	1435	060054	S2G5 no fire
12:02	498	1436	060054	S2G8,G9,G10 no fire
12:04	501	1439	060054	S2G9 no fire
12:06	507	1445	060054	S2G5,G9 no fire
12:07	508	1446	060054	S2G5,G6 no fire
12:08	512	1450	060054	S2G5 no fire
12:09	514	1452	060054	S2G2 no fire
12:10	515	1453	060054	S2G8 no fire
12:10	517	1455	060054	S2G5 no fire
12:11	519	1457	060054	S2G8,G9,G10 no fire
12:12	521	1459	060054	S2G2 no fire
12:13	522	1460	060054	S2G5,G7,G8 no fire

12:13	523	1461	060054	S2G5,G6,G7 no fire
12:14	525	1463	060054	S2G4,G5 no fire
12:15	526	1464	060054	S2G5,G8,G9 no fire
12:15	527	1465	060054	S2G5,G8,G9 no fire
12:15	528	1466	060054	S2G5 no fire
12:16	529	1467	060054	S2G9 no fire
12:16	530	1468	060054	S2G5,G8 no fire
12:17	531	1469	060054	S2G9 no fire
12:17	532	1470	060054	S2G4,G9 no fire
12:18	534	1472	060054	S2G2,G8,G9,G10 no fire
12:19	536	1474	060054	S2G2,G5,G8 no fire
12:20	538	1476	060054	S2G8,G9 no fire
12:20	539	1477	060054	S2G5,G8 no fire
12:22	542	1480	060054	S2G2 no fire
12:22	543	1481	060054	S2G2 delta timing 7.3ms,S2G8 no fire
12:22	544	1482	060054	S2G2 delta timing -5.2ms
12:23	545	1483	060054	S2G5 no fire
12:23	546	1484	060054	S2G9 no fire
12:24	547	1485	060054	S2G2,G4 no fire
12:24	548	1486	060054	S2G8,G9 no fire
12:25	550	1488	060054	S2G5,G8,G9,G10 no fire
12:26	551	1489	060054	S2G5,G9 no fire
12:26	552	1490	060054	S2G1,G5 no fire
12:26	553	1491	060054	S2G5 no fire
12:27	555	1493	060054	S2G5,G8,G9 no fire
12:28	557	1495	060054	S2G5,G10 no fire
12:29	559	1497	060054	S2G6 no fire
12:31	564	1502	060054	S2G9 no fire
12:33	567	1505	060054	S2G8,G10 no fire
12:34	569	1507	060054	S2G5,G9 no fire
12:34	571	1509	060054	S2G8 no fire
12:35	572	1510	060054	S2G5,G8,G9,G10 no fire
12:35	573	1511	060054	S2G9,G10 no fire
12:36	575	1513	060054	S2G9 no fire
12:39	580	1518	060054	S2G2,G8 no fire
12:39	581	1519	060054	S2G8 no fire
12:43	589	1527	060054	S2G5,G9 no fire
12:43	590	1528	060054	S2G5,G6 no fire
12:44	592	1530	060054	S2G4 no fire
12:44	593	1531	060054	S2G3,G8,G9,G10 no fire
12:46	598	1536	060054	S2G5 no fire

12:47	599	1537	060054	S2G8,G9 no fire
12:52	612	1550	060054	S2G8 no fire
12:54	617	1555	060054	S2G5 no fire
12:58	627	1565	060054	S2G4 no fire
12:59	628	1566	060054	S2G4 no fire
13:01	633	1571	060054	S2G5 no fire
13:02	637	1575	060054	S2G5,G8 no fire
13:03	639	1577	060054	S2G5 no fire
13:04	641	1579	060054	S2G5,G8 no fire
13:05	644	1582	060054	S2G5 no fire
13:06	646	1584	060054	S2G6,G8 no fire
13:07	649	1587	060054	S2G4 no fire
13:08	651	1589	060054	S2G9 no fire
13:09	653	1591	060054	S2G5 no fire
13:09	654	1592	060054	S2G8,G9 no fire
13:10	655	1593	060054	S2G2 no fire
13:10	657	1595	060054	S2G8 no fire
13:12	660	1598	060054	S2G5 no fire
13:13	664	1602	060054	S2G10 no fire
13:14	665	1603	060054	S2G5 no fire
13:14	667	1605	060054	S2G8 no fire
13:15	669	1607	060054	S2G5 no fire
13:17	672	1610	060054	S2G4 no fire
13:18	676	1614	060054	S2G8 no fire
13:19	677	1615	060054	S2G5,G8,G9 no fire
13:19	679	1617	060054	S2G9 no fire
13:20	681	1619	060054	S2G5 no fire
13:21	682	1620	060054	S2G5 no fire,S3G2 delta timing -2.8ms
13:22	685	1623	060054	S2G2,G9 no fire
13:23	687	1625	060054	S2G5,G8,G9 no fire
13:23	689	1627	060054	S2G2,G5,G6 no fire
13:25	692	1630	060054	S2G10 no fire
13:25	694	1632	060054	S2G8,G9 no fire
13:26	696	1634	060054	S2G5 no fire
13:27	697	1635	060054	S2G4,G5 no fire
13:27	698	1636	060054	S2G5 no fire
13:29	701	1639	060055	Reel Change 060054 to 060055
13:29	702	1640	060055	S2G5,G6,G8,G9,G10 no fire
13:29	703	1641	060055	S2G5 no fire
13:29	704	1642	060055	S2G5 no fire
13:30	705	1643	060055	S2G5 no fire

13:30	706	1644	060055	S2G4 no fire
13:31	709	1647	060055	S2G5 no fire
13:35	718	1656	060055	S2G9 no fire
13:35	719	1657	060055	S2G5 no fire
13:36	721	1659	060055	S2G5 no fire
13:37	724	1662	060055	S2G4 no fire
13:38	726	1664	060055	S2G8 no fire
13:42	735	1673	060055	S2G5 no fire
13:43	739	1677	060055	S2G4 no fire
13:44	741	1679	060055	S2G5,G6 no fire
13:44	742	1680	060055	S2G6 no fire
13:45	745	1683	060055	S2G5 no fire
13:46	746	1684	060055	S2G5,6 no fire
13:48	752	1690	060055	S2G2 no fire
13:50	756	1694	060055	S2G8 no fire
13:50	757	1695	060055	S2G8 no fire,S2G9 delta timing -6.3ms
13:51	758	1696	060055	S2G9 delta timing 4.6ms
13:53	763	1701	060055	S2G6 no fire
13:55	769	1707	060055	S2G5 no fire
13:55	770	1708	060055	S2G5 no fire
13:56	771	1709	060055	S2G4,G5 no fire
13:57	775	1713	060055	S2G5 no fire
13:58	777	1715	060055	S2G5 no fire
13:59	779	1717	060055	S2G5,G6 no fire
14:00	781	1719	060055	S2G8 no fire
14:04	792	1730	060055	S3G2 delta timing -2.3 ms
14:05	794	1732	060055	S2G5,G8,G9 no fire
14:05	795	1733	060055	S2G5,G8,G10 no fire
14:06	796	1734	060055	S2G5 no fire
14:06	797	1735	060055	S2G10 no fire
14:06	798	1736	060055	S2G4 no fire
14:07	799	1737	060055	S2G5,G6 no fire
14:08	801	1739	060055	S2G10 no fire
14:11	810	1748	060055	S2G5 no fire
14:11	811	1749	060055	S2G5 no fire
14:13	816	1754	060055	S3G2 delta timing 2.3 ms
14:14	817	1755	060055	S3G2 delta timing -3.0 ms
14:16	823	1761	060055	S2G4,G5 no fire
14:18	827	1765	060055	S2G5 no fire
14:19	830	1768	060055	S2G5 no fire
14:19	831	1769	060055	S2G5 no fire

14:20	832	1770	060055	S3G2 delta timing -2.2 ms
14:20	834	1772	060055	S2G4 no fire
14:21	836	1774	060055	S2G2 no fire
14:24	843	1781	060055	S2G5 no fire
14:24	844	1782	060055	S2G5 no fire
14:27	850	1788	060055	S2G5 no fire
14:27	851	1789	060055	S2G5 no fire
14:27	852	1790	060055	S2G9,G10 no fire
14:28	853	1791	060055	S2G9 no fire
14:28	854	1792	060055	S2G8 no fire
14:29	855	1793	060055	S2G5 no fire
14:29	856	1794	060055	S2G5 no fire
14:31	862	1800	060055	S2G6 no fire
14:34	868	1806	060055	S2G8 no fire
14:35	870	1808	060055	S2G5 no fire
14:35	871	1809	060055	S2G5 no fire
14:36	875	1813	060055	S2G5 no fire
14:39	881	1819	060055	S2G2 no fire
14:40	883	1821	060055	S2G3,G5 no fire
14:40	885	1823	060055	S3G2 delta timing -2.2 ms,S2G5 no fire
14:41	886	1824	060055	S2G1 no fire
14:42	888	1826	060055	S2G4 no fire
14:42	889	1827	060055	S2G6,G10 no fire,S3G2 delta timing -2.9 ms
14:44	894	1832	060055	S2G4 no fire,S3G2 delta timing -2.1 ms
14:46	899	1837	060055	S2G3,G5,G6 comm errors
14:46	900	1838	060055	S2G3,G5,G6 comm errors
14:47	903	1841	060055	S2G3,G5,G6 comm errors
14:48	904	1842	060055	S2G3 comm errors
14:50	909	1847	060055	Power cycle String 2
14:52	915	1853	060055	S2G5 no fire
14:53	917	1855	060055	S2G5 no fire
14:53	918	1856	060055	S2G5 no fire
14:54	921	1859	060055	S2G5 no fire
14:55	922	1860	060055	S3G2 delta timing -2.4 ms
14:55	924	1862	060055	S2G5 no fire
14:57	929	1867	060055	S3G2 delta timing -2.1 ms
15:03	943	1881	060055	S3G2 delta timing -2.6 ms
15:03	944	1882	060055	S2G6 no fire
15:04	946	1884	060055	S2G5,G6 no fire
15:04	947	1885	060055	S2G5 no fire
15:06	951	1889	060055	S2G5,G6 no fire

15:11	964	1902	060055	S2G5 no fire
15:19	985	1923	060055	S2G5 no fire
15:22	992	1930	060055	S3G2 delta timing -3.1 ms
15:30	1014	1952	060055	S2G5 no fire
15:34	1023	1961	060055	S3G2 delta timing -2.2 ms
15:37	1032	1970	060055	S2G8 no fire
15:40	1038	1976	060055	S2G5 no fire
15:40	1039	1977	060055	S2G5 no fire
15:43	1046	1984	060055	S1G8 delta timing -4.5 ms
15:43	1047	1985	060055	S1G8 delta timing -3.4 ms
15:56	1081	2019	060055	Digishot Blue Screen of death
16:06	1108	2046	060055	Restart CIU
16:07	1109	2047	060055	missed whole array
16:07	1110	2048	060055	missed whole array
16:08	1111	2049	060055	missed whole array
16:08	1112	2050	060055	missed whole array
16:08	1113	2051	060055	missed whole string 2
16:09	1114	2052	060055	missed whole string 2
16:09	1118	2056	060055	pretty good shot
16:11	1122	2060	060055	S2G8 No Fire
16:12	1124	2062	060055	S2G5 Delta Error -5.3ms
16:12	1125	2063	060055	S2G5 Delta Timing 4.0ms
16:13	1127	2065	060055	S2G9 no fire
16:13	1129	2067	060055	S2G2 No fire
16:14	1130	2068	060055	S2G5 No Fire
16:14	1132	2070	060055	S2 Power Cycle
16:17	1139	2077	060055	S3G02 -2.7ms
16:18	1142	2080	060055	S2G08 no fire
16:19	1145	2083	060055	S3G02 delta -2.7ms
16:21	1149	2087	060055	S2G09 no fire
16:21	1151	2089	060055	S2G02 S2G08 no fire
16:23	1155	2093	060055	S2G08 no fire
16:25	1160	2098	060055	S2G04 05 10 no fire
16:25	1161	2099	060055	S2G06 07 08 no fire
16:26	1165	2103	060055	S2G05 no fire
16:27	1166	2104	060055	S2G05 no fire
16:27	1167	2105	060055	S2G05 no fire
16:28	1168	2106	060055	S3G05 delta 2.8ms
16:33	1184	2122	060055	S2G09 no fire
16:36	1191	2129	060055	S2G04 no fire
16:37	1194	2132	060055	S3G02 no fire

16:40	1203	2141	060055	S3G02 delta -2.3ms
16:41	1204	2142	060055	S3G02 delta 2.2ms
16:41	1206	2144	060055	S2G02no fire
16:44	1212	2150	060055	S3G02 delta -2.1ms
16:50	1229	2167	060055	S3G02 delta -2.6ms
16:50	1231	2169	060055	S3G02 delta -2.3ms
16:51	1232	2170	060055	S3G02 delta 2.3ms
16:52	1236	2174	060055	S2G10 no fire
16:53	1237	2175	060055	S2G09 no fire
16:56	1246	2184	060055	S3G02 delta -2.3ms
16:57	1250	2188	060055	s3g02 delta 2.1ms
17:02	1265	2203	060055	S2G02 09 no fire
17:08	1281	2219	060055	S2G09 10 no fire
17:08	1282	2220	060055	S3G02 delta 2.2ms
17:10	1286	2224	060055	s3g02 delta 2.1ms
17:11	1288	2226	060055	S3G02 delta -2.2ms
17:11	1289	2227	060055	S3G02 delta 2.5ms
17:14	1299	2237	060055	S3G02 delta -2.2ms
17:20	1314	2252	060055	S2G8 No Fire
17:24	1328	2266	060055	S2G10 no fire
17:24	1330	2268	060055	S2G2,10 No Fire
17:25	1331	2269	060055	S2G7 No Fire
17:28	1338	2276	060055	S3G02 delta -2.2ms
17:28	1339	2277	060055	S1G08 delta 5.1ms
17:29	1340	2278	060055	S1G08 delta -3.7ms
17:29	1342	2280	060055	S2G4 No Fire, S3G2 delta -2.4ms
17:33	1353	2291	060055	S2G4 No Fire
17:37	1364	2302	060055	S2G8,9 No Fire
17:37	1366	2304	060055	S3G2 -2.1ms
17:38	1367	2305	060055	S2G6 No Fire
17:39	1371	2309	060055	S2G2,4 No Fire
17:40	1373	2311	060055	S2G2,4 No Fire
17:41	1378	2316	060055	S2G6 No Fire
17:42	1380	2318	060055	S2G2,4 No Fire
17:43	1383	2321	060055	S2G2,8,9 No Fire
17:44	1385	2323	060055	S2 Power Cycle S3G2 Delta -2.2ms
17:44	1386	2324	060055	S2G4 No Fire
17:44	1388	2326	060055	S2G2 No Fire
17:45	1389	2327	060055	S2G4,9,10 No Fire
17:46	1392	2330	060055	S2G4 No Fire
17:47	1395	2333	060055	s2g08,s2g10 no fire

17:48	1396	2334	060055	s2g08,s2g09 no fire
17:48	1397	2335	060055	s2g06 no fire
17:51	1405	2343	060056	s2g09 no fire
17:51	1406	2344	060056	S2G8,9,10 No Fire
17:52	1408	2346	060056	S2G2,4 No Fire
17:53	1413	2351	060056	S2G8 No Fire
17:54	1414	2352	060056	S2G8 No Fire
17:55	1418	2356	060056	S2G8,9,10 No Fire S3G2 Delta -2.2ms
17:56	1421	2359	060056	All gun no Fire and config 0507
17:59	1429	2367	060056	config dialed in
18:01	1435	2373	060056	S2G2 No fire
18:03	1441	2379	060056	S2G6,8 No Fire
18:10	1461	2399	060056	S2G4 No Fire
18:10	1462	2400	060056	S2G2,4 No Fire
18:11	1464	2402	060056	S2G2,4 No Fire
18:15	1476	2414	060056	S2G4 No Fire
18:18	1484	2422	060056	S2G4 No Fire
18:25	1495	2433	060056	S2G2 No Fire
18:26	1506	2444	060056	S2G9 No Fire
18:27	1510	2448	060056	S2G2,4 No Fire
18:29	1514	2452	060056	S2G4 No Fire
18:30	1518	2456	060056	S2G8,9 No Fire
18:32	1525	2463	060056	S2G4 No Fire
18:35	1533	2471	060056	S2G9 S3G2 No Fire
18:39	1542	2480	060056	S2G2 No Fire
18:39	1543	2481	060056	S2G2 No Fire
18:43	1553	2491	060056	S2G04 no fire
18:48	1567	2505	060056	S2G2,4 no fire
18:49	1570	2508	060056	S2G8,9 No Fire
18:50	1574	2512	060056	S2G2 No Fire
18:50	1575	2513	060056	S2G4 No Fire
18:51	1576	2514	060056	S1G10 Delta -2.3ms S2G2,4 No fire S3G2 Delta -2.5ms
18:54	1584	2522	060056	S2G02,S2G04 NO FIRE
18:55	1588	2526	060056	S2G10 No Fire
18:56	1592	2530	060056	S2G9 No Fire
19:00	1602	2540	060056	S2G2 No Fire
19:02	1606	2544	060056	S2G2,4,9 No Fire
19:02	1607	2545	060056	S1G10 Delta -3.0ms S2G4,6 No fire
19:03	1610	2548	060056	S2G2,4 No Fire
19:07	1621	2559	060056	s2g06 no fire
19:07	1622	2560	060056	s2g06 no fire

19:08	1625	2563	060056	s2g06 no fire
19:10	1628	2566	060056	S2G02 NO FIRE
19:11	1632	2570	060056	S2G02 NO FIRE
19:16	1645	2583	060056	s2g09 no fire
19:17	1650	2588	060056	S2G04 no fire
19:18	1651	2589	060056	S2G02 NO FIRE
19:19	1653	2591	060056	S2G02 04 NO FIRE
19:22	1664	2602	060056	S2G02 08 NO FIRE
19:24	1668	2606	060056	S2G04 NO FIRE
19:25	1672	2610	060056	S2G02 04 NO FIRE
19:26	1674	2612	060056	S2G08 no fire
19:26	1675	2613	060056	S3G02 DELTA -2.5MS
19:27	1676	2614	060056	S2G02 04 NO FIRE
19:28	1679	2617	060056	S2G04 no fire
19:28	1681	2619	060056	S2G04 NO FIRE
19:29	1684	2622	060056	S2G02 NO FIRE
19:30	1685	2623	060056	S2G02 04 NO FIRE
19:31	1690	2628	060056	S2G02 NO FIRE
19:33	1694	2632	060056	S2G02 NO FIRE
19:34	1698	2636	060056	S2G02 NO FIRE
19:35	1699	2637	060056	S2G08 no fire
19:37	1708	2646	060056	S2G02 NO FIRE
19:40	1714	2652	060056	S2G02 04 NO FIRE
19:42	1720	2658	060056	S2G09 NO FIRE
19:42	1722	2660	060056	S2G04 NO FIRE
19:43	1723	2661	060056	S1G10 DELTA -2.3MS
19:45	1728	2666	060056	S2G09 NO FIRE
19:45	1730	2668	060056	S2G02 04 NO FIRE
19:47	1736	2674	060056	s2g09 no fire
19:48	1737	2675	060056	S2G04 no fire
19:49	1740	2678	060056	S2G02 NO FIRE
19:50	1742	2680	060056	S2G04 NO FIRE
19:50	1744	2682	060056	S2G04 NO FIRE
19:51	1745	2683	060056	S4G05 DELTA 7.3MS
19:51	1746	2684	060056	S4G05 DELTA -2.9MS
19:51	1747	2685	060056	S2G02 NO FIRE
19:53	1751	2689	060056	S2G09 NO FIRE
19:54	1756	2694	060056	S2G08 no fire
19:56	1759	2697	060056	S2G02 NO FIRE
19:58	1765	2703	060056	S2G02 NO FIRE
19:59	1768	2706	060056	S2G09 NO FIRE

19:59	1769	2707	060056	S2G02 NO FIRE
20:00	1771	2709	060056	s2g09 no fire
20:06	1790	2728	060056	S2G10 No Fire
20:07	1792	2730	060056	S2G02,08 NO FIRE
20:08	1793	2731	060056	S2G02 NO FIRE
20:08	1795	2733	060056	S2G02 NO FIRE
20:09	1796	2734	060056	S2G02 NO FIRE
20:10	1800	2738	060056	S2G02 NO FIRE
20:11	1802	2740	060056	S2G02 NO FIRE
20:11	1804	2742	060056	S2G02 NO FIRE
20:12	1807	2745	060056	S2 power cycle
20:14	1810	2748	060056	s2g06 no fire
20:19	1825	2763	060056	S1G08 Delta 4.2 ms; S2G09 No fire
20:19	1826	2764	060056	S1G08 Delta -3.3 ms
20:20	1828	2766	060056	S2G02 NO FIRE
20:21	1832	2770	060056	S2G09,10 No fire
20:25	1842	2780	060056	s2g09 no fire
20:26	1845	2783	060056	s2g09 no fire
20:27	1848	2786	060056	S1G10 Delta 2.1 ms
20:27	1849	2787	060056	S2G02 NO FIRE
20:28	1850	2788	060056	S2G02 NO FIRE
20:29	1853	2791	060056	S1G10 Delta 2.4 ms
20:30	1857	2795	060056	S1G10 Delta -3.2 ms
20:31	1859	2797	060056	S2G02 NO FIRE
20:32	1861	2799	060056	S2G09 NO FIRE
20:33	1864	2802	060056	S2G09 NO FIRE
20:33	1866	2804	060056	S2G02 NO FIRE
20:35	1871	2809	060056	S2G02 NO FIRE
20:35	1872	2810	060056	S2G02 NO FIRE
20:36	1873	2811	060056	S2G02,10 No fire
20:36	1874	2812	060056	S2G02,09 No fire
20:37	1878	2816	060056	S1G10 Delta ?? ms
20:38	1881	2819	060056	S2G06,10 No fire
20:39	1884	2822	060056	S2G06,08 No fire
20:40	1887	2825	060056	S1G10 Delta 2.9 ms
20:41	1888	2826	060056	S1G10 Delta 2.4 ms; S2G09 No fire
20:41	1890	2828	060056	S2G09 NO FIRE
20:42	1891	2829	060056	S2G10 No Fire
20:42	1892	2830	060056	S1G10 Delta -2.8 ms
20:43	1895	2833	060056	S2G02, 09 No fire
20:44	1899	2837	060056	s2g06 no fire

20:45	1901	2839	060056	S2G02,06,08,09,10 No fire
20:46	1904	2842	060056	S2G09 NO FIRE
20:47	1907	2845	060056	S2G02,10 No fire
20:47	1908	2846	060056	S2G08 no fire
20:49	1912	2850	060056	s2g06 no fire
20:52	1920	2858	060056	S2G06,10 No fire
20:52	1922	2860	060056	s2g06 no fire
20:53	1923	2861	060056	S2G10 No Fire
20:53	1924	2862	060056	S2G10 No Fire
20:54	1927	2865	060056	s2g06 no fire
20:55	1930	2868	060056	s2g06 no fire
20:58	1937	2875	060056	S2G08 no fire
20:59	1942	2880	060056	s2g06 no fire
21:00	1945	2883	060056	s2g06 no fire
21:00	1946	2884	060056	S2G09 NO FIRE
21:02	1950	2888	060056	S2G09 NO FIRE
21:04	1957	2895	060056	S2G08 no fire
21:07	1967	2905	060056	S2G09 NO FIRE
21:08	1968	2906	060056	S2G02,09 No fire
21:11	1977	2915	060056	S2G10 No Fire
21:14	1986	2924	060056	S2G02 NO FIRE
21:14	1988	2926	060056	S2G09 NO FIRE
21:15	1991	2929	060056	S2G02 NO FIRE
21:16	1994	2932	060056	S2G08,09 No fire
21:21	2007	2945	060056	S2G09 NO FIRE
21:23	2013	2951	060056	S2G10 No Fire
21:24	2016	2954	060056	S2G10 No Fire
21:24	2017	2955	060056	S2G09 NO FIRE
21:24	2018	2956	060056	S2G09 NO FIRE
21:27	2026	2964	060056	S2G09 NO FIRE
21:28	2028	2966	060056	S2G09 NO FIRE
21:28	2030	2968	060056	S2G02 NO FIRE
21:29	2031	2969	060056	S2G02 NO FIRE
21:29	2032	2970	060056	s2g06 no fire
21:32	2041	2979	060056	S2G09 NO FIRE
21:33	2045	2983	060056	S2G02,10 No fire
21:34	2046	2984	060056	S2G06,10 No fire
21:36	2054	2992	060056	S2G09 NO FIRE
21:38	2060	2998	060056	s2g06 no fire
21:39	2062	3000	060056	S2G09 NO FIRE
21:39	2063	3001	060056	S2G09 NO FIRE

21:40	2065	3003	060056	S2G09 NO FIRE
21:43	2074	3012	060056	S2G09,10 No fire
21:45	2080	3018	060056	S2G09 NO FIRE
21:46	2082	3020	060056	S2G10 No Fire
21:46	2083	3021	060056	S2G09,10 No fire
21:48	2088	3026	060056	S2G09 NO FIRE
21:48	2089	3027	060056	S2G09 NO FIRE
21:48	2090	3028	060056	S2G09 NO FIRE
21:49	2092	3030	060056	S2G10 No Fire
21:49	2093	3031	060056	S1G08 Delta 4.7 ms
21:50	2094	3032	060056	S1G08 Delta -3.7 ms
21:51	2097	3035	060056	S2G06,09 No fire
21:51	2098	3036	060056	S2G06,07 No fire
21:52	2100	3039	060057	Reel Change 060056 to 060057
21:53	2103	3042	060057	S2G10 No Fire
21:55	2109	3048	060057	S2G07 NO FIRE
21:55	2110	3049	060057	s2g09 no fire
21:56	2112	3051	060057	S2G02 NO FIRE
21:56	2113	3052	060057	S2G08 no fire
21:57	2115	3054	060057	s2g09 no fire
22:01	2127	3066	060057	S2G08,10 NO FIRE
22:02	2130	3069	060057	S2G09 NO FIRE
22:04	2136	3075	060057	S2G09 NO FIRE
22:04	2137	3076	060057	S2G01,06,09 No fire
22:04	2138	3077	060057	S2G09,10 No fire
22:05	2140	3079	060057	S2G09 NO FIRE
22:06	2142	3081	060057	S1G10 Delta 2.1 ms
22:06	2143	3082	060057	S1G10 Delta 2.7 ms
22:06	2144	3083	060057	S1G10 Delta -3.9 ms
22:08	2150	3089	060057	S2G09 NO FIRE
22:09	2151	3090	060057	S1G10 Delta -2.1 ms
22:10	2154	3093	060057	S1G10 Delta -2.6 ms; S2G10 No fire
22:10	2156	3095	060057	S2G09 No fire
22:14	2166	3105	060057	S1G10 Delta 2.3 ms; S2G02 Delta -3.6 ms; S2G09 No fire
22:14	2168	3107	060057	S2G02 Delta 2.8 ms
22:18	2179	3118	060057	S1G10 Delta 2.5 ms; S2G02,09 No fire
22:19	2183	3122	060057	S1G10 Delta -4.0 ms
22:20	2185	3124	060057	S2G06 No fire
22:20	2187	3126	060057	S2G09 NO FIRE
22:21	2188	3127	060057	S2G02 NO FIRE
22:23	2195	3134	060057	S2G09 NO FIRE

22:25	2200	3139	060057	S2G09 NO FIRE
22:25	2201	3140	060057	S2G02 NO FIRE
22:27	2208	3147	060057	S2G10 No Fire
22:28	2210	3149	060057	S2G09 NO FIRE
22:31	2219	3158	060057	S2G10 No Fire
22:32	2224	3163	060057	S2G02 NO FIRE
22:35	2233	3172	060057	S1G10 Delta 3.0 ms
22:36	2234	3173	060057	S2G01,10 No fire
22:38	2241	3180	060057	S2G10 No Fire
22:40	2248	3187	060057	S2G02,10 No fire
22:44	2260	3199	060057	S2G09 NO FIRE
22:45	2264	3203	060057	S1G10 Delta -2.4 ms
22:46	2265	3204	060057	S2G10 No Fire
22:46	2266	3205	060057	S2G02 NO FIRE
22:46	2267	3206	060057	S2G09 NO FIRE
22:47	2269	3208	060057	S1G10 Delta 2.2 ms
22:48	2272	3211	060057	S2G09 NO FIRE
22:49	2274	3213	060057	S1G10 Delta -2.7 ms
22:49	2275	3214	060057	S2G02 Delta -2.1 ms; S2G09 No fire
22:50	2279	3218	060057	S2G02 NO FIRE
22:51	2281	3220	060057	S2G09 NO FIRE
22:52	2285	3224	060057	S2G06 No fire
22:54	2290	3229	060057	S2G02 NO FIRE
22:55	2293	3232	060057	S1G10 Delta 2.3 ms
22:56	2297	3236	060057	S2G02 NO FIRE
22:57	2299	3238	060057	S1G10 Delta -2.3 ms
22:57	2300	3239	060057	S2G10 No Fire
23:00	2310	3249	060057	S2G06 No fire
23:02	2317	3256	060057	S1G10 Delta 2.2 ms
23:03	2319	3258	060057	S2G02,09 No fire
23:03	2320	3259	060057	S2G09 NO FIRE
23:04	2322	3261	060057	S1G10 Delta -2.3 ms
23:04	2323	3262	060057	S2G09 NO FIRE
23:06	2327	3266	060057	S2G02 NO FIRE
23:06	2329	3268	060057	S2G02 NO FIRE
23:09	2338	3277	060057	S1G10 Delta -2.7 ms
23:11	2343	3282	060057	S2G02/06 NO FIRE
23:11	2345	3284	060057	S1G10 Delta -2.5 ms
23:13	2349	3288	060057	S2G09 NO FIRE
23:16	2359	3298	060057	S1G10 Delta -2.3 ms
23:17	2364	3303	060057	S2G9/S2G10 no fire

23:19	2371	3310	060057	S2G06 No fire
23:22	2379	3318	060057	S2G09 No fire
23:26	2392	3331	060057	S2G09 No fire
23:30	2405	3344	060057	S1G10 Delta -2.1 ms
22:30	2407	3346	060057	S1G10 Delta 2.2 ms
23:32	2412	3351	060057	S2G10 No fire
23:33	2414	3353	060057	S2G08 No fire
23:34	2419	3358	060057	S2G09 No fire
22:35	2421	3360	060057	S2G10 No fire
22:35	2422	3361	060057	S1G10 Delta 2.1 ms
22:36	2426	3365	060057	S2G02,07 No fire
22:37	2428	3367	060057	S2G08 No fire
23:40	2438	3377	060057	S2G02 NO FIRE
23:41	2443	3382	060057	S2G09/S2G10 NO FIRE
23:42	2444	3383	060057	S2G09 NO FIRE
23:45	2454	3393	060057	S2G10 No Fire
23:45	2456	3395	060057	S2G02 NO FIRE
23:47	2461	3400	060057	S2G02/10 NO FIRE
23:50	2473	3412	060057	S2G02/09 NO FIRE
23:52	2477	3416	060057	S2G01 NO FIRE
23:53	2481	3420	060057	S2G06 No fire
23:54	2485	3424	060057	S1G10 Deta -2.1 ms
23:57	2496	3435	060057	S2G09 NO FIRE
23:58	2508	3447	060057	S1G10 Deta 2.2 ms
00:01	2509	3448	060057	S2G01 NO FIRE
00:04	2516	3455	060057	S2G02/10/08 NO FIRE
00:04	2518	3457	060057	S2G9/2/10 No Fire
00:05	2522	3461	060057	S2G10 No Fire
00:09	2537	3476	060057	S2G09 NO FIRE
00:11	2543	3482	060057	S2G02 NO FIRE
00:12	2545	3484	060057	S2G09 NO FIRE
00:13	2551	3490	060057	S2G09 NO FIRE
00:15	2556	3495	060057	S1G10 Delta -2.5 ms
00:15	2557	3496	060057	S2G02 NO FIRE
00:16	2559	3498	060057	S2G02 NO FIRE
00:17	2561	3500	060057	S2G02 NO FIRE
00:18	2563	3502	060057	S2G09 NO FIRE
00:20	2572	3511	060057	S2G10 NO FIRE
00:21	2576	3515	060057	S2G10 NO FIRE
00:24	2586	3525	060057	S2G10 NO FIRE
00:25	2589	3528	060057	S1G10 DELTA TIMING -2.5 MS,S2G9 NO FIRE

00:25	2592	3531	060057	S2G10 NO FIRE
00:30	2607	3546	060057	S1G10 DELTA TIMING 2.2MS
00:30	2608	3547	060057	S2G8 NO FIRE
00:32	2616	3555	060057	S2G10 No Fire
00:34	2621	3560	060057	S1G10 DELTA TIMING -2.4 MS
00:39	2639	3578	060057	S2G2 DELTA TIMING 2.3 MS
00:41	2647	3586	060057	S3G2 DELTA TIMING 2.1 MS
00:43	2652	3591	060057	S1G10 DELTA TIMING 2.2MS
00:43	2653	3592	060057	S2G1 No Fire
00:43	2654	3593	060057	S2G09 NO FIRE
00:44	2656	3595	060057	S2G09 NO FIRE
00:44	2657	3596	060057	S1G10 DELTA TIMING 2.1 MS, S2G6 NO FIRE
00:45	2659	3598	060057	S2G9 No Fire
00:45	2662	3601	060057	S1G10 DELTA TIMING -2.3 MS
00:46	2665	3604	060057	S2G2,G9 NO FIRE
00:47	2669	3608	060057	S2G9 No Fire
00:48	2671	3610	060057	S2G10 No Fire
00:49	2673	3612	060057	S1G10 DELTA TIMING -2.2 MS
00:51	2682	3621	060057	S2G1 No Fire
00:52	2684	3623	060057	S1G10 NO FIRE
00:53	2687	3626	060057	S2G10 No Fire
00:53	2688	3627	060057	S2G1,G10 NO FIRE
00:53	2689	3628	060057	S2G9 No Fire
00:54	2694	3633	060057	S2G9 No Fire
00:55	2695	3634	060057	S1G10 DELTA TIMING -2.3 MS
00:57	2703	3642	060057	S2G9 No Fire
00:58	2708	3647	060057	S2G2 No Fire
00:59	2709	3648	060057	S2G10 No fire
01:00	2713	3652	060057	S2G2 No Fire
01:02	2720	3659	060057	S2G2 No Fire
01:04	2727	3666	060057	S2G1,G2 No fire
01:04	2728	3667	060057	S2G2 No Fire
01:05	2731	3670	060057	S2G10 No Fire
01:06	2741	3680	060057	String 1 and 2 powered down for recovery and repair new volume 3660
01:14	2762	3701	060057	S3G2 delta timing -2.3 ms
01:25	2801	3740	060058	Change reel 060057 to 060058
01:31	2817	3756	060058	S4G1 NO FIRE
01:33	2823	3762	060058	S4G1 NO FIRE
01:39	2840	3779	060058	S4G1 NO FIRE
01:47	2860	3799	060058	S4G1 NO FIRE
01:55	2882	3821	060058	S4G1 NO FIRE

01:57	2887	3826	060058	S4G1 NO FIRE
02:08	2917	3856	060058	S4G1 NO FIRE
02:31	2977	3916	060058	S4G1 NO FIRE
02:31	2978	3917	060058	S4G1 NO FIRE
02:32	2980	3919	060058	S4G1 NO FIRE
02:32	2981	3920	060058	S4G1 NO FIRE
02:42	3006	3945	060058	S4G1 NO FIRE
02:46	3018	3957	060058	S4G1 NO FIRE
02:47	3022	3961	060058	S4G1 NO FIRE
02:56	3044	3983	060058	S4G1 NO FIRE
03:04	3068	4007	060058	S4G1 NO FIRE
03:06	3072	4011	060058	S4G1 NO FIRE
03:17	3100	4039	060058	S4G1 NO FIRE
03:17	3102	4041	060058	S4G1 NO FIRE
03:22	3115	4054	060058	S4G1 NO FIRE
03:20	3113	4052	060058	String 1 deployed and in position
03:22	3116	4055	060058	String 1 dialed in Volume 5490
03:25	3122	4061	060058	S4G01 NO FIRE
03:27	3128	4067	060058	S4G1 NO FIRE
03:33	3142	4081	060058	S4G1 NO FIRE
03:33	3143	4082	060058	S4G1 NO FIRE
03:35	3147	4086	060058	S4G1 NO FIRE
03:38	3155	4094	060058	S4G1 NO FIRE
03:38	3156	4095	060058	S4G1 NO FIRE
03:40	3160	4099	060058	S4G1 NO FIRE
03:42	3167	4106	060058	S1G10 delta timing -2.1 ms
03:45	3175	4114	060058	S2G2 delta timing 2.2 ms
03:47	3178	4117	060058	S4G1 NO FIRE
03:48	3182	4121	060058	S2G2 delta timing 2.2 ms
03:50	3186	4125	060058	S2G2 delta timing -2.4 ms
03:50	3188	4127	060058	S4G1 NO FIRE
03:52	3193	4132	060058	S1G10 delta timing -2.4 ms
03:54	3200	4139	060058	S2G3 NO FIRE
03:56	3206	4145	060058	S2G2 delta timing -2.3 ms
03:58	3211	4150	060058	S1G10 delta timing 2.4 ms
04:00	3217	4156	060058	S1G10 delta timing 2.1 ms
04:01	3223	4162	060058	S1G10 delta timing -2.2 ms
04:02	3224	4163	060058	S1G10 delta timing 2.4 ms
04:04	3232	4171	060058	S2G2 delta timing -2.4 ms
04:04	3234	4173	060058	S2G2 delta timing -2.2 ms
04:05	3236	4175	060058	S2G2 delta timing 2.6 ms

04:08	3247	4186	060058	S2G2 delta timing 2.4 ms
04:21	3289	4228	060058	S1G10 delta timing -2.2 ms
04:23	3296	4235	060058	S1G10 delta timing -2.1 ms
04:26	3303	4242	060058	S1G10 delta timing -2.7 ms,S3G2 delta timing 2.1 ms
04:27	3309	4248	060058	S2G2 delta timing -2.2 ms
04:32	3325	4264	060058	S2G2 delta timing 2.1 ms
04:34	3331	4270	060058	S2G2 delta timing -2.1 ms
04:38	3345	4284	060058	S1G10 delta timing 2.1 ms
04:40	3350	4289	060058	S2G2 delta timing 2.2 ms
04:47	3371	4310	060058	S3G2 delta timing -2.1 ms
04:48	3374	4313	060058	S3G2 delta timing -2.3 ms
04:48	3376	4315	060058	S3G2 delta timing 2.3 ms
04:54	3393	4332	060058	S3G2 delta timing -2.5 ms
04:59	3410	4349	060058	S2G2 delta timing 2.1 ms
05:03	3425	4364	060058	S1G10 delta timing -2.4 ms
05:04	3426	4365	060058	S1G10 delta timing -2.3 ms, S2G2 delta timing 2.3 ms
05:04	3427	4366	060058	S1G10 delta timing 3.0 ms
05:07	3437	4376	060058	S1G10 delta timing -2.5 ms
05:12	3452	4391	060058	S1G10 delta timing -2.7 ms
05:18	3471	4410	060058	S2G2 delta timing -2.2 ms
05:24	3490	4429	060058	S4G1 NO FIRE
05:27	3499	4438	060058	S2G2 delta timing -2.4 ms
05:27	3501	4440	060059	Reel Change 060058 to 060059
05:53	3583	4522	060059	S2G3 NO FIRE
06:02	3612	4551	060059	S1G10 delta timing -2.3ms
06:08	3631	4570	060059	S2G4 No Fire
06:12	3645	4584	060059	S1G10 delta timing -3.1ms
06:13	3648	4587	060059	S1G10 delta timing 2.2ms
06:19	3668	4607	060059	S1G10 delta timing 2.2ms
06:20	3671	4610	060059	S1G10 delta timing 2.1ms
06:22	3678	4617	060059	S1G10 delta timing -2.7ms
06:23	3681	4620	060059	S1G10 delta timing 2.4ms
06:25	3686	4625	060059	S1G10 delta timing -2.9ms
06:27	3695	4634	060059	S1G10 delta timing -2.3ms
06:34	3716	4655	060059	S3G10 deata timing -2.1ms
06:48	3762	4701	060059	S3G10 deata timing -2.4ms
07:03	3808	4747	060059	S2G02 delta -2.1ms
07:04	3813	4752	060059	S1G10 delta -2.4ms
07:07	3820	4759	060059	S1G10 delta -2.3ms
07:08	3824	4763	060059	S2G02 delta 2.2ms
07:09	3828	4767	060059	S1G10 delta -2.4ms

07:10	3830	4769	060059	S1G10 delta 2.3ms
07:10	3832	4771	060059	S2G02 delta 2.2ms
07:16	3849	4788	060059	S1G10 delta -2.8ms
07:18	3855	4794	060059	S1G10 delta -2.6ms
07:18	3857	4796	060059	S1G10 Delta 2.1 ms
07:20	3864	4803	060059	S1G10 Delta 2.1 ms
07:22	3868	4807	060059	S1G10 delta -2.4ms
07:24	3874	4813	060059	S1G10 delta -2.4ms
07:30	3893	4832	060059	S1G10 Delta -2.1 ms
07:31	3897	4836	060059	S1G10 Delta -2.9 ms
07:35	3909	4848	060059	Bird 13 and 14 out of spec 11 meters. Up fin on B14 to +8.8 degrees
07:37	3916	4855	060059	S1G10 delta -2.3ms
07:38	3919	4858	060059	S2G02 delta 2.2ms
07:38	3921	4860	060059	S2G02 delta 2.2ms
07:47	3948	4887	060059	S1G10 delta 2.7ms
07:48	3953	4892	060059	S1G10 delta -2.3ms
07:53	3970	4909	060059	S1G10 delta 2.1ms
07:55	3980	4919	060059	S1G10 delta 2.9ms
07:58	3985	4924	060059	S1G10 Delta -2.1 ms
07:58	3986	4925	060059	S1G10 delta 2.3ms
07:59	3990	4929	060059	S1G10 delta -2.3ms
08:04	4005	4944	060059	S1G10 Delta -3 ms
08:05	4007	4946	060059	S1G10 Delta 2.3 ms
08:06	4011	4950	060059	S1G10 Delta 2.5 ms
08:06	4013	4952	060059	S1G10 Delta -2.7 ms
08:08	4017	4956	060059	S1G10 Delta -2.2 ms
08:12	4031	4970	060059	S1G10 Delta -2.4 ms
08:13	4034	4973	060059	S1G10 Delta 3.0 ms
08:16	4045	4984	060059	S1G10 Delta -2.9 ms
08:18	4053	4992	060059	S1G10 Delta -2.4 ms
08:19	4056	4995	060059	S1G10 Delta 2.5 ms
08:21	4061	5000	060059	S1G10 Delta -3.0 ms
08:23	4069	5008	060059	S1G10 Delta -2.1 ms
08:24	4071	5010	060059	S1G10 Delta 2.2 ms
08:25	4075	5014	060059	S1G10 Delta -2.3 ms
08:27	4081	5020	060059	S1G10 Delta -2.2 ms
08:32	4098	5037	060059	S1G10 Delta -2.5 ms
08:34	4103	5042	060059	S1G10 Delta 2.5 ms
08:37	4116	5055	060059	S1G10 Delta 2.3 ms
08:38	4118	5057	060059	S1G10 Delta -2.3 ms
08:41	4129	5068	060059	S1G10 Delta 2.3 ms

08:42	4131	5070	060059	S1G10 Delta -2.9 ms
08:45	4142	5081	060059	S1G10 Delta 2.1 ms
08:46	4143	5082	060059	S3G02 Delta -2.3 ms
09:03	4201	5140	060060	Reel Change 060059 to 060060
09:06	4210	5149	060060	B13 out of spec, 10.2m
09:09	4223	5162	060060	B13 back in spec, max depth 10.2
09:11	4229	5168	060060	S2G02 Delta -2.1 ms
09:23	4269	5208	060060	S2G01 NO FIRE
10:33	4501	5440	060060	S2G02 Delta -2.3
10:57	4581	5520	060060	B13 out of spec, 10.2m
11:00	4591	5530	060060	B13 back in spec, max depth 10.2
11:06	4607	5546	060060	EOL LAT 21D20.785 N LON 123D 44.244 E Seas 3-6 ft. Wind 10 kts.Depth 5406 Hdt 180 SMG5.2 kts.Fth -3.6 degree

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #	060054	060060	FGSP	942
SP #	942	5546	LGSP	5546

Line	MGL0906_24
Sequence	035
Direction	180

Streamer Parameters				
	1	2	3	4
Length			6000	
Auxiliaries				
Shotpoint Interval:			50	
Offset CS - CFG			161	
Group Interval:			12.5	
Number of channels			468	
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	15s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/27/09	05/28/09
Time UTC	08:34	11:06
Volume (cu in.)	6600	6600
Streamer Depth (m)	9	9
Wind (kts)	20	13
Sea State (ft)	3-6	3-6
Water Depth (m)	4432	5406

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments SOL
08:22 All 4 strings powered up SOL LAT 23 25.5378 N LONG 123 45.0095 E
08:34 SOL SP942 File 0003 Lat 23d25.5378 N 123d45.0095E
13:29 sp 1639 Reel Change 060054 to 060055 File # 701
16:09 DIGISHOT FAILURE/SHUTDOWN SP2019
16:28 S1G02 SPARED DUE TO FAILURE SPARED S1G05 ACTIVE /S2G03 FAILURE SPARED/ S2G05 ACTIVE
S2G05 FAILURE S3G05 ACTIVE NEW VOLUME 6560
17:49REEL CHANGE 060055-060056 SP02338
18:50 SPARED S204 ACTIVE S4G05 SP2683
21:52 reel change 060056-060057 SP2039
01:06 String 1 and string 2 powered down for recoery and reapi SP3680 New Volume 3660
03:20 String 1 deployed and in position SP4052 VOLUME is 5420 in3
03:41 String 2 deployed and in position SP4102 Volume 6600

Line Status:
03:43 Streamer in position SP4109
01:25 Reel Change 060057 to 060058 File 2801 SP 3740
05:27 Reel Change 060058 to 060059 File 3501 SP 4440
09:03 Reel Change 060059 to 060060 File 4201 SP 5140
11:06 EOL LAT 21D20.785 N LON 123D 44.244 E Seas 3-6 ft. Wind 10 kts.Depth 5406 Hdt 180 SMG5.2 kts.Fth -3.6 degrees

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	LFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Initiation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
08:42	0003	942	060054	SOL MGL09_06_024_Seq_035
08:37	11	949	060054	S2G10 no fire
08:39	16	954	060054	S2G9,G10 no fire
08:41	22	960	060054	S2G10 no fire
08:42	24	962	060054	S2G9 no fire
08:43	25	963	060054	S2G2 no fire
08:47	35	973	060054	S2G1 no fire
08:48	38	976	060054	S2G9 no fire
08:51	45	983	060054	S2G3,G6 no fire
08:53	50	988	060054	S2G2,G3,G9 no fire
08:53	52	990	060054	S2G6 no fire
08:54	54	992	060054	S2G9,G10 no fire
08:56	58	996	060054	S2G10 no fire
08:57	61	999	060054	S2G6 no fire
08:58	63	1001	060054	String 2 Power cycle no fire
09:01	70	1008	060054	S2G8 no fire
09:01	71	1009	060054	S2G6 no fire
09:02	72	1010	060054	S1G2 no fire
09:03	75	1013	060054	S2G9 no fire
09:04	77	1015	060054	S2G3,G8 no fire
09:04	78	1016	060054	S2G3 no fire
09:06	82	1020	060054	S2G3 no fire
09:06	83	1021	060054	S2G3 no fire
09:07	86	1024	060054	S2G7 no fire
09:08	87	1025	060054	S2G7,G8 no fire
09:08	88	1026	060054	S2G3,G8 no fire
09:10	91	1029	060054	S2G3,G9 no fire
09:10	93	1031	060054	S2G3 no fire
09:11	95	1033	060054	S2G3,G9 no fire
09:12	98	1036	060054	S2G3
09:13	100	1038	060054	S2G8 no fire
09:15	106	1044	060054	S2G2 no fire
09:17	109	1047	060054	S2G8,G9 no fire
09:18	112	1050	060054	S1G2 delta 7.3 ms
09:18	113	1051	060054	S1G2, S2G3 no fire
09:19	114	1052	060054	S1G2 no fire
09:19	116	1054	060054	S1G2, S2G9 no fire
09:20	117	1055	060054	S1G2 no fire
09:20	118	1056	060054	S1G2 no fire

09:21	119	1057	060054	S1G2, S2G2,G3 no fire
09:21	120	1058	060054	S1G2 no fire
09:21	121	1059	060054	S1G2 no fire
09:22	122	1060	060054	S1G2;S2G3 no fire
09:22	123	1061	060054	S1G2 no fire
09:22	124	1062	060054	S1G2 no fire
09:23	125	1063	060054	S1G2;S2G2,G6,G9 no fire
09:24	126	1064	060054	S1G2 no fire
09:24	127	1065	060054	S1G2;S2G6 no fire
09:24	128	1066	060054	S1G2 no fire
09:24	129	1067	060054	S1G2 no fire
09:25	130	1068	060054	S1G2 no fire
09:25	131	1069	060054	S1G2 no fire
09:26	132	1070	060054	S1G2; S2G3 no fire
09:26	133	1071	060054	S1G2 no fire
09:26	134	1072	060054	S1G2; S2G2 no fire
09:27	135	1073	060054	S1G2 no fire
09:27	136	1074	060054	S1G5; S2G5 no fire
09:27	137	1075	060054	S1G5 Delta -2.9 ms
09:28	139	1077	060054	S2G5 no fire
09:29	142	1080	060054	S2G10 no fire
09:30	143	1081	060054	S2G5,06,10 no fire
09:31	146	1084	060054	S2G1,06 no fire
09:32	148	1086	060054	S2G5 no fire
09:33	152	1090	060054	S2G5 no fire
09:34	154	1092	060054	S2G4,05,09 no fire
09:35	157	1095	060054	S2G9 no fire
09:36	159	1097	060054	S2G5,08 no fire
09:38	163	1101	060054	S2G5 no fire; S3G2 Delta 2.1ms
09:39	167	1105	060054	S2G5,09 no fire
09:41	170	1108	060054	S2G5,08 no fire
09:41	171	1109	060054	S2G5 no fire
09:41	172	1110	060054	S2G5 no fire
09:43	176	1114	060054	S2G4 no fire
09:44	179	1117	060054	S2G5 no fire
09:46	184	1122	060054	S2G9 no fire
09:47	186	1124	060054	S2G5/S2G9 no fire
09:48	189	1127	060054	S2G8 no fire
09:50	192	1130	060054	S2G9/S2G5/S2G10 no fire
09:52	194	1132	060054	S2G9/S2G5/S2G10 no fire
09:53	197	1135	060054	S2G5/06/07 no fire

09:53	199	1137	060054	S2G5/06/09 no fire
09:54	202	1140	060054	S2G5 no fire
09:56	206	1144	060054	S2G5 no fire
09:57	209	1147	060054	S2G6 no fire
09:59	213	1151	060054	S2G6 no fire
10:00	216	1154	060054	S2G2 no fire
10:01	217	1155	060054	S2G2,5,8,9 no fire
10:01	218	1156	060054	S2G5,9 no fire
10:04	227	1165	060054	S2G8,9 no fire
10:08	237	1175	060054	S2G8 no fire
10:09	238	1176	060054	S2G8 no fire
10:12	246	1184	060054	S2G2 no fire
10:14	250	1188	060054	S2G10 no fire
10:16	256	1194	060054	S2G8 no fire
10:17	258	1196	060054	S2G4 no fire
10:22	269	1207	060054	S3G2 no fire
10:22	270	1208	060054	S2G2/9 no fire
10:23	272	1210	060054	S2G6/9 no fire
10:24	273	1211	060054	S2G2/8/9 no fire
10:25	277	1215	060054	S2G5 no fire
10:26	279	1217	060054	S2G5 no fire
10:28	283	1221	060054	s2g5/6 no fire
10:28	284	1222	060054	S2G9 no fire
10:36	300	1238	060054	S2G9 no fire
10:36	302	1240	060054	S2G5 no fire
10:37	303	1241	060054	S2G8 no fire
10:38	305	1243	060054	s2G7
10:39	307	1245	060054	S2G5 no fire
10:39	308	1246	060054	s2g5/6/7/8/9 no fire
10:40	310	1248	060054	S2G5,8,10 no fire
10:41	311	1249	060054	S2G8
10:42	314	1252	060054	S2G4,5,8 no fire
10:43	316	1254	060054	S2G9 no fire
10:43	317	1255	060054	s2g5/6 no fire
10:44	319	1257	060054	s2g8/9 no fire
10:46	321	1259	060054	S2G5 no fire
10:46	322	1260	060054	S2G4,5,8 no fire
10:47	326	1264	060054	S2G7,9 no fire
10:48	327	1265	060054	S2G10 no fire
10:49	330	1268	060054	S2G5 no fire
10:50	331	1269	060054	S2G9 no fire

10:55	343	1281	060054	S2G8,09 no fire
10:56	344	1282	060054	S2G9,G10 no fire
10:56	346	1284	060054	S2G9 no fire
10:57	348	1286	060054	S2G5,08 no fire
10:58	350	1288	060054	S2G4,G5,G7,G8,G9 no fire
10:59	352	1290	060054	S3G2 Delta 2.2 ms
11:00	354	1292	060054	S2G5 no fire
11:02	358	1296	060054	S2G5 no fire
11:03	360	1298	060054	S2G5,G6,10 no fire
11:04	362	1300	060054	S2G2,G4,G5,G6 no fire
11:04	363	1301	060054	S2G5,06 no fire
11:05	366	1304	060054	S2G5,G10 no fire
11:06	367	1305	060054	S2G9 no fire
11:07	371	1309	060054	S2g4,5 no fire
11:08	372	1310	060054	S2G2,G4,G5 no fire
11:08	373	1311	060054	S2G2,G4,G5 no fire
11:10	376	1314	060054	S2G5,9 no fire
11:10	377	1315	060054	S2G4,5,8 no fire
11:11	380	1318	060054	S2G4,05 no fire
11:12	381	1319	060054	S2G2,04,05 no fire
11:13	383	1321	060054	S2G2,04,05 no fire
11:13	385	1323	060054	S2G2,04,05 no fire
11:14	387	1325	060054	S2G4,05,08 no fire
11:15	388	1326	060054	S2G5 no fire
11:15	389	1327	060054	S2G5,08,09 no fire
11:16	390	1328	060054	S2G5,G9,G10 no fire
11:16	391	1329	060054	S2G4,G5,G6,G9 no fire
11:16	392	1330	060054	S2G4,G5 no fire
11:18	395	1333	060054	S2G4,G10 no fire
11:18	396	1334	060054	S2G5 no fire
11:19	398	1336	060054	S2G5 no fire
11:20	401	1339	060054	S2G5,G9 no fire; S3G2 delat -2.4 ms
11:21	402	1340	060054	S2G4,G5 no fire
11:22	404	1342	060054	S2G4,G5 no fire
11:22	405	1343	060054	S2G5 no fire
11:23	407	1345	060054	S2G5 no fire
11:23	408	1346	060054	S2G5 no fire
11:24	409	1347	060054	S2G2,G4,G5,G8,G10 no fire
11:24	410	1348	060054	S2G5 no fire
11:25	411	1349	060054	S2G4,G10 no fire
11:25	412	1350	060054	S2G5,G10 no fire

11:27	417	1355	060054	S2G5 no fire
11:32	427	1365	060054	S2G5 no fire
11:34	433	1371	060054	S2G5 no fire
11:35	434	1372	060054	S2G4 no fire
11:37	439	1377	060054	S2G5 no fire
11:38	441	1379	060054	S2G5 no fire
11:39	445	1383	060054	S2G5 no fire
11:40	446	1384	060054	S2G5 no fire
11:41	449	1387	060054	S2G9 no fire
11:42	450	1388	060054	S2G5 no fire
11:43	453	1391	060054	S2G8,G10 no fire
11:44	455	1393	060054	S2G6 no fire
11:45	458	1396	060054	S2G5 no fire
11:46	460	1398	060054	S2G1 no fire
11:48	464	1402	060054	S2G5 no fire
11:50	468	1406	060054	S2G2,G5 no fire
11:50	469	1407	060054	S2G4,G9 no fire
11:51	472	1410	060054	S2G5 no fire
11:52	474	1412	060054	S2G5,G6 no fire
11:53	475	1413	060054	S2G5 no fire
11:54	479	1417	060054	S2G5,G6 no fire
11:55	481	1419	060054	S2G5,G6 no fire
11:56	483	1421	060054	S2G5 no fire
11:56	484	1422	060054	S2G5,08,09 no fire
11:58	487	1425	060054	S2G8 no fire
11:58	488	1426	060054	S2G5,G8 no fire
11:59	490	1428	060054	S2G5 no fire
11:59	491	1429	060054	S2G5 no fire
12:02	496	1434	060054	S2G5,G6,G8,G9 no fire
12:02	497	1435	060054	S2G5 no fire
12:02	498	1436	060054	S2G8,G9,G10 no fire
12:04	501	1439	060054	S2G9 no fire
12:06	507	1445	060054	S2G5,G9 no fire
12:07	508	1446	060054	S2G5,G6 no fire
12:08	512	1450	060054	S2G5 no fire
12:09	514	1452	060054	S2G2 no fire
12:10	515	1453	060054	S2G8 no fire
12:10	517	1455	060054	S2G5 no fire
12:11	519	1457	060054	S2G8,G9,G10 no fire
12:12	521	1459	060054	S2G2 no fire
12:13	522	1460	060054	S2G5,G7,G8 no fire

12:13	523	1461	060054	S2G5,G6,G7 no fire
12:14	525	1463	060054	S2G4,G5 no fire
12:15	526	1464	060054	S2G5,G8,G9 no fire
12:15	527	1465	060054	S2G5,G8,G9 no fire
12:15	528	1466	060054	S2G5 no fire
12:16	529	1467	060054	S2G9 no fire
12:16	530	1468	060054	S2G5,G8 no fire
12:17	531	1469	060054	S2G9 no fire
12:17	532	1470	060054	S2G4,G9 no fire
12:18	534	1472	060054	S2G2,G8,G9,G10 no fire
12:19	536	1474	060054	S2G2,G5,G8 no fire
12:20	538	1476	060054	S2G8,G9 no fire
12:20	539	1477	060054	S2G5,G8 no fire
12:22	542	1480	060054	S2G2 no fire
12:22	543	1481	060054	S2G2 delta timing 7.3ms,S2G8 no fire
12:22	544	1482	060054	S2G2 delta timing -5.2ms
12:23	545	1483	060054	S2G5 no fire
12:23	546	1484	060054	S2G9 no fire
12:24	547	1485	060054	S2G2,G4 no fire
12:24	548	1486	060054	S2G8,G9 no fire
12:25	550	1488	060054	S2G5,G8,G9,G10 no fire
12:26	551	1489	060054	S2G5,G9 no fire
12:26	552	1490	060054	S2G1,G5 no fire
12:26	553	1491	060054	S2G5 no fire
12:27	555	1493	060054	S2G5,G8,G9 no fire
12:28	557	1495	060054	S2G5,G10 no fire
12:29	559	1497	060054	S2G6 no fire
12:31	564	1502	060054	S2G9 no fire
12:33	567	1505	060054	S2G8,G10 no fire
12:34	569	1507	060054	S2G5,G9 no fire
12:34	571	1509	060054	S2G8 no fire
12:35	572	1510	060054	S2G5,G8,G9,G10 no fire
12:35	573	1511	060054	S2G9,G10 no fire
12:36	575	1513	060054	S2G9 no fire
12:39	580	1518	060054	S2G2,G8 no fire
12:39	581	1519	060054	S2G8 no fire
12:43	589	1527	060054	S2G5,G9 no fire
12:43	590	1528	060054	S2G5,G6 no fire
12:44	592	1530	060054	S2G4 no fire
12:44	593	1531	060054	S2G3,G8,G9,G10 no fire
12:46	598	1536	060054	S2G5 no fire

12:47	599	1537	060054	S2G8,G9 no fire
12:52	612	1550	060054	S2G8 no fire
12:54	617	1555	060054	S2G5 no fire
12:58	627	1565	060054	S2G4 no fire
12:59	628	1566	060054	S2G4 no fire
13:01	633	1571	060054	S2G5 no fire
13:02	637	1575	060054	S2G5,G8 no fire
13:03	639	1577	060054	S2G5 no fire
13:04	641	1579	060054	S2G5,G8 no fire
13:05	644	1582	060054	S2G5 no fire
13:06	646	1584	060054	S2G6,G8 no fire
13:07	649	1587	060054	S2G4 no fire
13:08	651	1589	060054	S2G9 no fire
13:09	653	1591	060054	S2G5 no fire
13:09	654	1592	060054	S2G8,G9 no fire
13:10	655	1593	060054	S2G2 no fire
13:10	657	1595	060054	S2G8 no fire
13:12	660	1598	060054	S2G5 no fire
13:13	664	1602	060054	S2G10 no fire
13:14	665	1603	060054	S2G5 no fire
13:14	667	1605	060054	S2G8 no fire
13:15	669	1607	060054	S2G5 no fire
13:17	672	1610	060054	S2G4 no fire
13:18	676	1614	060054	S2G8 no fire
13:19	677	1615	060054	S2G5,G8,G9 no fire
13:19	679	1617	060054	S2G9 no fire
13:20	681	1619	060054	S2G5 no fire
13:21	682	1620	060054	S2G5 no fire,S3G2 delta timing -2.8ms
13:22	685	1623	060054	S2G2,G9 no fire
13:23	687	1625	060054	S2G5,G8,G9 no fire
13:23	689	1627	060054	S2G2,G5,G6 no fire
13:25	692	1630	060054	S2G10 no fire
13:25	694	1632	060054	S2G8,G9 no fire
13:26	696	1634	060054	S2G5 no fire
13:27	697	1635	060054	S2G4,G5 no fire
13:27	698	1636	060054	S2G5 no fire
13:29	701	1639	060055	Reel Change 060054 to 060055
13:29	702	1640	060055	S2G5,G6,G8,G9,G10 no fire
13:29	703	1641	060055	S2G5 no fire
13:29	704	1642	060055	S2G5 no fire
13:30	705	1643	060055	S2G5 no fire

13:30	706	1644	060055	S2G4 no fire
13:31	709	1647	060055	S2G5 no fire
13:35	718	1656	060055	S2G9 no fire
13:35	719	1657	060055	S2G5 no fire
13:36	721	1659	060055	S2G5 no fire
13:37	724	1662	060055	S2G4 no fire
13:38	726	1664	060055	S2G8 no fire
13:42	735	1673	060055	S2G5 no fire
13:43	739	1677	060055	S2G4 no fire
13:44	741	1679	060055	S2G5,G6 no fire
13:44	742	1680	060055	S2G6 no fire
13:45	745	1683	060055	S2G5 no fire
13:46	746	1684	060055	S2G5,6 no fire
13:48	752	1690	060055	S2G2 no fire
13:50	756	1694	060055	S2G8 no fire
13:50	757	1695	060055	S2G8 no fire,S2G9 delta timing -6.3ms
13:51	758	1696	060055	S2G9 delta timing 4.6ms
13:53	763	1701	060055	S2G6 no fire
13:55	769	1707	060055	S2G5 no fire
13:55	770	1708	060055	S2G5 no fire
13:56	771	1709	060055	S2G4,G5 no fire
13:57	775	1713	060055	S2G5 no fire
13:58	777	1715	060055	S2G5 no fire
13:59	779	1717	060055	S2G5,G6 no fire
14:00	781	1719	060055	S2G8 no fire
14:04	792	1730	060055	S3G2 delta timing -2.3 ms
14:05	794	1732	060055	S2G5,G8,G9 no fire
14:05	795	1733	060055	S2G5,G8,G10 no fire
14:06	796	1734	060055	S2G5 no fire
14:06	797	1735	060055	S2G10 no fire
14:06	798	1736	060055	S2G4 no fire
14:07	799	1737	060055	S2G5,G6 no fire
14:08	801	1739	060055	S2G10 no fire
14:11	810	1748	060055	S2G5 no fire
14:11	811	1749	060055	S2G5 no fire
14:13	816	1754	060055	S3G2 delta timing 2.3 ms
14:14	817	1755	060055	S3G2 delta timing -3.0 ms
14:16	823	1761	060055	S2G4,G5 no fire
14:18	827	1765	060055	S2G5 no fire
14:19	830	1768	060055	S2G5 no fire
14:19	831	1769	060055	S2G5 no fire

14:20	832	1770	060055	S3G2 delta timing -2.2 ms
14:20	834	1772	060055	S2G4 no fire
14:21	836	1774	060055	S2G2 no fire
14:24	843	1781	060055	S2G5 no fire
14:24	844	1782	060055	S2G5 no fire
14:27	850	1788	060055	S2G5 no fire
14:27	851	1789	060055	S2G5 no fire
14:27	852	1790	060055	S2G9,G10 no fire
14:28	853	1791	060055	S2G9 no fire
14:28	854	1792	060055	S2G8 no fire
14:29	855	1793	060055	S2G5 no fire
14:29	856	1794	060055	S2G5 no fire
14:31	862	1800	060055	S2G6 no fire
14:34	868	1806	060055	S2G8 no fire
14:35	870	1808	060055	S2G5 no fire
14:35	871	1809	060055	S2G5 no fire
14:36	875	1813	060055	S2G5 no fire
14:39	881	1819	060055	S2G2 no fire
14:40	883	1821	060055	S2G3,G5 no fire
14:40	885	1823	060055	S3G2 delta timing -2.2 ms,S2G5 no fire
14:41	886	1824	060055	S2G1 no fire
14:42	888	1826	060055	S2G4 no fire
14:42	889	1827	060055	S2G6,G10 no fire,S3G2 delta timing -2.9 ms
14:44	894	1832	060055	S2G4 no fire,S3G2 delta timing -2.1 ms
14:46	899	1837	060055	S2G3,G5,G6 comm errors
14:46	900	1838	060055	S2G3,G5,G6 comm errors
14:47	903	1841	060055	S2G3,G5,G6 comm errors
14:48	904	1842	060055	S2G3 comm errors
14:50	909	1847	060055	Power cycle String 2
14:52	915	1853	060055	S2G5 no fire
14:53	917	1855	060055	S2G5 no fire
14:53	918	1856	060055	S2G5 no fire
14:54	921	1859	060055	S2G5 no fire
14:55	922	1860	060055	S3G2 delta timing -2.4 ms
14:55	924	1862	060055	S2G5 no fire
14:57	929	1867	060055	S3G2 delta timing -2.1 ms
15:03	943	1881	060055	S3G2 delta timing -2.6 ms
15:03	944	1882	060055	S2G6 no fire
15:04	946	1884	060055	S2G5,G6 no fire
15:04	947	1885	060055	S2G5 no fire
15:06	951	1889	060055	S2G5,G6 no fire

15:11	964	1902	060055	S2G5 no fire
15:19	985	1923	060055	S2G5 no fire
15:22	992	1930	060055	S3G2 delta timing -3.1 ms
15:30	1014	1952	060055	S2G5 no fire
15:34	1023	1961	060055	S3G2 delta timing -2.2 ms
15:37	1032	1970	060055	S2G8 no fire
15:40	1038	1976	060055	S2G5 no fire
15:40	1039	1977	060055	S2G5 no fire
15:43	1046	1984	060055	S1G8 delta timing -4.5 ms
15:43	1047	1985	060055	S1G8 delta timing -3.4 ms
15:56	1081	2019	060055	Digishot Blue Screen of death
16:06	1108	2046	060055	Restart CIU
16:07	1109	2047	060055	missed whole array
16:07	1110	2048	060055	missed whole array
16:08	1111	2049	060055	missed whole array
16:08	1112	2050	060055	missed whole array
16:08	1113	2051	060055	missed whole string 2
16:09	1114	2052	060055	missed whole string 2
16:09	1118	2056	060055	pretty good shot
16:11	1122	2060	060055	S2G8 No Fire
16:12	1124	2062	060055	S2G5 Delta Error -5.3ms
16:12	1125	2063	060055	S2G5 Delta Timing 4.0ms
16:13	1127	2065	060055	S2G9 no fire
16:13	1129	2067	060055	S2G2 No fire
16:14	1130	2068	060055	S2G5 No Fire
16:14	1132	2070	060055	S2 Power Cycle
16:17	1139	2077	060055	S3G02 -2.7ms
16:18	1142	2080	060055	S2G08 no fire
16:19	1145	2083	060055	S3G02 delta -2.7ms
16:21	1149	2087	060055	S2G09 no fire
16:21	1151	2089	060055	S2G02 S2G08 no fire
16:23	1155	2093	060055	S2G08 no fire
16:25	1160	2098	060055	S2G04 05 10 no fire
16:25	1161	2099	060055	S2G06 07 08 no fire
16:26	1165	2103	060055	S2G05 no fire
16:27	1166	2104	060055	S2G05 no fire
16:27	1167	2105	060055	S2G05 no fire
16:28	1168	2106	060055	S3G05 delta 2.8ms
16:33	1184	2122	060055	S2G09 no fire
16:36	1191	2129	060055	S2G04 no fire
16:37	1194	2132	060055	S3G02 no fire

16:40	1203	2141	060055	S3G02 delta -2.3ms
16:41	1204	2142	060055	S3G02 delta 2.2ms
16:41	1206	2144	060055	S2G02no fire
16:44	1212	2150	060055	S3G02 delta -2.1ms
16:50	1229	2167	060055	S3G02 delta -2.6ms
16:50	1231	2169	060055	S3G02 delta -2.3ms
16:51	1232	2170	060055	S3G02 delta 2.3ms
16:52	1236	2174	060055	S2G10 no fire
16:53	1237	2175	060055	S2G09 no fire
16:56	1246	2184	060055	S3G02 delta -2.3ms
16:57	1250	2188	060055	s3g02 delta 2.1ms
17:02	1265	2203	060055	S2G02 09 no fire
17:08	1281	2219	060055	S2G09 10 no fire
17:08	1282	2220	060055	S3G02 delta 2.2ms
17:10	1286	2224	060055	s3g02 delta 2.1ms
17:11	1288	2226	060055	S3G02 delta -2.2ms
17:11	1289	2227	060055	S3G02 delta 2.5ms
17:14	1299	2237	060055	S3G02 delta -2.2ms
17:20	1314	2252	060055	S2G8 No Fire
17:24	1328	2266	060055	S2G10 no fire
17:24	1330	2268	060055	S2G2,10 No Fire
17:25	1331	2269	060055	S2G7 No Fire
17:28	1338	2276	060055	S3G02 delta -2.2ms
17:28	1339	2277	060055	S1G08 delta 5.1ms
17:29	1340	2278	060055	S1G08 delta -3.7ms
17:29	1342	2280	060055	S2G4 No Fire, S3G2 delta -2.4ms
17:33	1353	2291	060055	S2G4 No Fire
17:37	1364	2302	060055	S2G8,9 No Fire
17:37	1366	2304	060055	S3G2 -2.1ms
17:38	1367	2305	060055	S2G6 No Fire
17:39	1371	2309	060055	S2G2,4 No Fire
17:40	1373	2311	060055	S2G2,4 No Fire
17:41	1378	2316	060055	S2G6 No Fire
17:42	1380	2318	060055	S2G2,4 No Fire
17:43	1383	2321	060055	S2G2,8,9 No Fire
17:44	1385	2323	060055	S2 Power Cycle S3G2 Delta -2.2ms
17:44	1386	2324	060055	S2G4 No Fire
17:44	1388	2326	060055	S2G2 No Fire
17:45	1389	2327	060055	S2G4,9,10 No Fire
17:46	1392	2330	060055	S2G4 No Fire
17:47	1395	2333	060055	s2g08,s2g10 no fire

17:48	1396	2334	060055	s2g08,s2g09 no fire
17:48	1397	2335	060055	s2g06 no fire
17:51	1405	2343	060056	s2g09 no fire
17:51	1406	2344	060056	S2G8,9,10 No Fire
17:52	1408	2346	060056	S2G2,4 No Fire
17:53	1413	2351	060056	S2G8 No Fire
17:54	1414	2352	060056	S2G8 No Fire
17:55	1418	2356	060056	S2G8,9,10 No Fire S3G2 Delta -2.2ms
17:56	1421	2359	060056	All gun no Fire and config 0507
17:59	1429	2367	060056	config dialed in
18:01	1435	2373	060056	S2G2 No fire
18:03	1441	2379	060056	S2G6,8 No Fire
18:10	1461	2399	060056	S2G4 No Fire
18:10	1462	2400	060056	S2G2,4 No Fire
18:11	1464	2402	060056	S2G2,4 No Fire
18:15	1476	2414	060056	S2G4 No Fire
18:18	1484	2422	060056	S2G4 No Fire
18:25	1495	2433	060056	S2G2 No Fire
18:26	1506	2444	060056	S2G9 No Fire
18:27	1510	2448	060056	S2G2,4 No Fire
18:29	1514	2452	060056	S2G4 No Fire
18:30	1518	2456	060056	S2G8,9 No Fire
18:32	1525	2463	060056	S2G4 No Fire
18:35	1533	2471	060056	S2G9 S3G2 No Fire
18:39	1542	2480	060056	S2G2 No Fire
18:39	1543	2481	060056	S2G2 No Fire
18:43	1553	2491	060056	S2G04 no fire
18:48	1567	2505	060056	S2G2,4 no fire
18:49	1570	2508	060056	S2G8,9 No Fire
18:50	1574	2512	060056	S2G2 No Fire
18:50	1575	2513	060056	S2G4 No Fire
18:51	1576	2514	060056	S1G10 Delta -2.3ms S2G2,4 No fire S3G2 Delta -2.5ms
18:54	1584	2522	060056	S2G02,S2G04 NO FIRE
18:55	1588	2526	060056	S2G10 No Fire
18:56	1592	2530	060056	S2G9 No Fire
19:00	1602	2540	060056	S2G2 No Fire
19:02	1606	2544	060056	S2G2,4,9 No Fire
19:02	1607	2545	060056	S1G10 Delta -3.0ms S2G4,6 No fire
19:03	1610	2548	060056	S2G2,4 No Fire
19:07	1621	2559	060056	s2g06 no fire
19:07	1622	2560	060056	s2g06 no fire

19:08	1625	2563	060056	s2g06 no fire
19:10	1628	2566	060056	S2G02 NO FIRE
19:11	1632	2570	060056	S2G02 NO FIRE
19:16	1645	2583	060056	s2g09 no fire
19:17	1650	2588	060056	S2G04 no fire
19:18	1651	2589	060056	S2G02 NO FIRE
19:19	1653	2591	060056	S2G02 04 NO FIRE
19:22	1664	2602	060056	S2G02 08 NO FIRE
19:24	1668	2606	060056	S2G04 NO FIRE
19:25	1672	2610	060056	S2G02 04 NO FIRE
19:26	1674	2612	060056	S2G08 no fire
19:26	1675	2613	060056	S3G02 DELTA -2.5MS
19:27	1676	2614	060056	S2G02 04 NO FIRE
19:28	1679	2617	060056	S2G04 no fire
19:28	1681	2619	060056	S2G04 NO FIRE
19:29	1684	2622	060056	S2G02 NO FIRE
19:30	1685	2623	060056	S2G02 04 NO FIRE
19:31	1690	2628	060056	S2G02 NO FIRE
19:33	1694	2632	060056	S2G02 NO FIRE
19:34	1698	2636	060056	S2G02 NO FIRE
19:35	1699	2637	060056	S2G08 no fire
19:37	1708	2646	060056	S2G02 NO FIRE
19:40	1714	2652	060056	S2G02 04 NO FIRE
19:42	1720	2658	060056	S2G09 NO FIRE
19:42	1722	2660	060056	S2G04 NO FIRE
19:43	1723	2661	060056	S1G10 DELTA -2.3MS
19:45	1728	2666	060056	S2G09 NO FIRE
19:45	1730	2668	060056	S2G02 04 NO FIRE
19:47	1736	2674	060056	s2g09 no fire
19:48	1737	2675	060056	S2G04 no fire
19:49	1740	2678	060056	S2G02 NO FIRE
19:50	1742	2680	060056	S2G04 NO FIRE
19:50	1744	2682	060056	S2G04 NO FIRE
19:51	1745	2683	060056	S4G05 DELTA 7.3MS
19:51	1746	2684	060056	S4G05 DELTA -2.9MS
19:51	1747	2685	060056	S2G02 NO FIRE
19:53	1751	2689	060056	S2G09 NO FIRE
19:54	1756	2694	060056	S2G08 no fire
19:56	1759	2697	060056	S2G02 NO FIRE
19:58	1765	2703	060056	S2G02 NO FIRE
19:59	1768	2706	060056	S2G09 NO FIRE

19:59	1769	2707	060056	S2G02 NO FIRE
20:00	1771	2709	060056	s2g09 no fire
20:06	1790	2728	060056	S2G10 No Fire
20:07	1792	2730	060056	S2G02,08 NO FIRE
20:08	1793	2731	060056	S2G02 NO FIRE
20:08	1795	2733	060056	S2G02 NO FIRE
20:09	1796	2734	060056	S2G02 NO FIRE
20:10	1800	2738	060056	S2G02 NO FIRE
20:11	1802	2740	060056	S2G02 NO FIRE
20:11	1804	2742	060056	S2G02 NO FIRE
20:12	1807	2745	060056	S2 power cycle
20:14	1810	2748	060056	s2g06 no fire
20:19	1825	2763	060056	S1G08 Delta 4.2 ms; S2G09 No fire
20:19	1826	2764	060056	S1G08 Delta -3.3 ms
20:20	1828	2766	060056	S2G02 NO FIRE
20:21	1832	2770	060056	S2G09,10 No fire
20:25	1842	2780	060056	s2g09 no fire
20:26	1845	2783	060056	s2g09 no fire
20:27	1848	2786	060056	S1G10 Delta 2.1 ms
20:27	1849	2787	060056	S2G02 NO FIRE
20:28	1850	2788	060056	S2G02 NO FIRE
20:29	1853	2791	060056	S1G10 Delta 2.4 ms
20:30	1857	2795	060056	S1G10 Delta -3.2 ms
20:31	1859	2797	060056	S2G02 NO FIRE
20:32	1861	2799	060056	S2G09 NO FIRE
20:33	1864	2802	060056	S2G09 NO FIRE
20:33	1866	2804	060056	S2G02 NO FIRE
20:35	1871	2809	060056	S2G02 NO FIRE
20:35	1872	2810	060056	S2G02 NO FIRE
20:36	1873	2811	060056	S2G02,10 No fire
20:36	1874	2812	060056	S2G02,09 No fire
20:37	1878	2816	060056	S1G10 Delta ?? ms
20:38	1881	2819	060056	S2G06,10 No fire
20:39	1884	2822	060056	S2G06,08 No fire
20:40	1887	2825	060056	S1G10 Delta 2.9 ms
20:41	1888	2826	060056	S1G10 Delta 2.4 ms; S2G09 No fire
20:41	1890	2828	060056	S2G09 NO FIRE
20:42	1891	2829	060056	S2G10 No Fire
20:42	1892	2830	060056	S1G10 Delta -2.8 ms
20:43	1895	2833	060056	S2G02, 09 No fire
20:44	1899	2837	060056	s2g06 no fire

20:45	1901	2839	060056	S2G02,06,08,09,10 No fire
20:46	1904	2842	060056	S2G09 NO FIRE
20:47	1907	2845	060056	S2G02,10 No fire
20:47	1908	2846	060056	S2G08 no fire
20:49	1912	2850	060056	s2g06 no fire
20:52	1920	2858	060056	S2G06,10 No fire
20:52	1922	2860	060056	s2g06 no fire
20:53	1923	2861	060056	S2G10 No Fire
20:53	1924	2862	060056	S2G10 No Fire
20:54	1927	2865	060056	s2g06 no fire
20:55	1930	2868	060056	s2g06 no fire
20:58	1937	2875	060056	S2G08 no fire
20:59	1942	2880	060056	s2g06 no fire
21:00	1945	2883	060056	s2g06 no fire
21:00	1946	2884	060056	S2G09 NO FIRE
21:02	1950	2888	060056	S2G09 NO FIRE
21:04	1957	2895	060056	S2G08 no fire
21:07	1967	2905	060056	S2G09 NO FIRE
21:08	1968	2906	060056	S2G02,09 No fire
21:11	1977	2915	060056	S2G10 No Fire
21:14	1986	2924	060056	S2G02 NO FIRE
21:14	1988	2926	060056	S2G09 NO FIRE
21:15	1991	2929	060056	S2G02 NO FIRE
21:16	1994	2932	060056	S2G08,09 No fire
21:21	2007	2945	060056	S2G09 NO FIRE
21:23	2013	2951	060056	S2G10 No Fire
21:24	2016	2954	060056	S2G10 No Fire
21:24	2017	2955	060056	S2G09 NO FIRE
21:24	2018	2956	060056	S2G09 NO FIRE
21:27	2026	2964	060056	S2G09 NO FIRE
21:28	2028	2966	060056	S2G09 NO FIRE
21:28	2030	2968	060056	S2G02 NO FIRE
21:29	2031	2969	060056	S2G02 NO FIRE
21:29	2032	2970	060056	s2g06 no fire
21:32	2041	2979	060056	S2G09 NO FIRE
21:33	2045	2983	060056	S2G02,10 No fire
21:34	2046	2984	060056	S2G06,10 No fire
21:36	2054	2992	060056	S2G09 NO FIRE
21:38	2060	2998	060056	s2g06 no fire
21:39	2062	3000	060056	S2G09 NO FIRE
21:39	2063	3001	060056	S2G09 NO FIRE

21:40	2065	3003	060056	S2G09 NO FIRE
21:43	2074	3012	060056	S2G09,10 No fire
21:45	2080	3018	060056	S2G09 NO FIRE
21:46	2082	3020	060056	S2G10 No Fire
21:46	2083	3021	060056	S2G09,10 No fire
21:48	2088	3026	060056	S2G09 NO FIRE
21:48	2089	3027	060056	S2G09 NO FIRE
21:48	2090	3028	060056	S2G09 NO FIRE
21:49	2092	3030	060056	S2G10 No Fire
21:49	2093	3031	060056	S1G08 Delta 4.7 ms
21:50	2094	3032	060056	S1G08 Delta -3.7 ms
21:51	2097	3035	060056	S2G06,09 No fire
21:51	2098	3036	060056	S2G06,07 No fire
21:52	2100	3039	060057	Reel Change 060056 to 060057
21:53	2103	3042	060057	S2G10 No Fire
21:55	2109	3048	060057	S2G07 NO FIRE
21:55	2110	3049	060057	s2g09 no fire
21:56	2112	3051	060057	S2G02 NO FIRE
21:56	2113	3052	060057	S2G08 no fire
21:57	2115	3054	060057	s2g09 no fire
22:01	2127	3066	060057	S2G08,10 NO FIRE
22:02	2130	3069	060057	S2G09 NO FIRE
22:04	2136	3075	060057	S2G09 NO FIRE
22:04	2137	3076	060057	S2G01,06,09 No fire
22:04	2138	3077	060057	S2G09,10 No fire
22:05	2140	3079	060057	S2G09 NO FIRE
22:06	2142	3081	060057	S1G10 Delta 2.1 ms
22:06	2143	3082	060057	S1G10 Delta 2.7 ms
22:06	2144	3083	060057	S1G10 Delta -3.9 ms
22:08	2150	3089	060057	S2G09 NO FIRE
22:09	2151	3090	060057	S1G10 Delta -2.1 ms
22:10	2154	3093	060057	S1G10 Delta -2.6 ms; S2G10 No fire
22:10	2156	3095	060057	S2G09 No fire
22:14	2166	3105	060057	S1G10 Delta 2.3 ms; S2G02 Delta -3.6 ms; S2G09 No fire
22:14	2168	3107	060057	S2G02 Delta 2.8 ms
22:18	2179	3118	060057	S1G10 Delta 2.5 ms; S2G02,09 No fire
22:19	2183	3122	060057	S1G10 Delta -4.0 ms
22:20	2185	3124	060057	S2G06 No fire
22:20	2187	3126	060057	S2G09 NO FIRE
22:21	2188	3127	060057	S2G02 NO FIRE
22:23	2195	3134	060057	S2G09 NO FIRE

22:25	2200	3139	060057	S2G09 NO FIRE
22:25	2201	3140	060057	S2G02 NO FIRE
22:27	2208	3147	060057	S2G10 No Fire
22:28	2210	3149	060057	S2G09 NO FIRE
22:31	2219	3158	060057	S2G10 No Fire
22:32	2224	3163	060057	S2G02 NO FIRE
22:35	2233	3172	060057	S1G10 Delta 3.0 ms
22:36	2234	3173	060057	S2G01,10 No fire
22:38	2241	3180	060057	S2G10 No Fire
22:40	2248	3187	060057	S2G02,10 No fire
22:44	2260	3199	060057	S2G09 NO FIRE
22:45	2264	3203	060057	S1G10 Delta -2.4 ms
22:46	2265	3204	060057	S2G10 No Fire
22:46	2266	3205	060057	S2G02 NO FIRE
22:46	2267	3206	060057	S2G09 NO FIRE
22:47	2269	3208	060057	S1G10 Delta 2.2 ms
22:48	2272	3211	060057	S2G09 NO FIRE
22:49	2274	3213	060057	S1G10 Delta -2.7 ms
22:49	2275	3214	060057	S2G02 Delta -2.1 ms; S2G09 No fire
22:50	2279	3218	060057	S2G02 NO FIRE
22:51	2281	3220	060057	S2G09 NO FIRE
22:52	2285	3224	060057	S2G06 No fire
22:54	2290	3229	060057	S2G02 NO FIRE
22:55	2293	3232	060057	S1G10 Delta 2.3 ms
22:56	2297	3236	060057	S2G02 NO FIRE
22:57	2299	3238	060057	S1G10 Delta -2.3 ms
22:57	2300	3239	060057	S2G10 No Fire
23:00	2310	3249	060057	S2G06 No fire
23:02	2317	3256	060057	S1G10 Delta 2.2 ms
23:03	2319	3258	060057	S2G02,09 No fire
23:03	2320	3259	060057	S2G09 NO FIRE
23:04	2322	3261	060057	S1G10 Delta -2.3 ms
23:04	2323	3262	060057	S2G09 NO FIRE
23:06	2327	3266	060057	S2G02 NO FIRE
23:06	2329	3268	060057	S2G02 NO FIRE
23:09	2338	3277	060057	S1G10 Delta -2.7 ms
23:11	2343	3282	060057	S2G02/06 NO FIRE
23:11	2345	3284	060057	S1G10 Delta -2.5 ms
23:13	2349	3288	060057	S2G09 NO FIRE
23:16	2359	3298	060057	S1G10 Delta -2.3 ms
23:17	2364	3303	060057	S2G9/S2G10 no fire

23:19	2371	3310	060057	S2G06 No fire
23:22	2379	3318	060057	S2G09 No fire
23:26	2392	3331	060057	S2G09 No fire
23:30	2405	3344	060057	S1G10 Delta -2.1 ms
22:30	2407	3346	060057	S1G10 Delta 2.2 ms
23:32	2412	3351	060057	S2G10 No fire
23:33	2414	3353	060057	S2G08 No fire
23:34	2419	3358	060057	S2G09 No fire
22:35	2421	3360	060057	S2G10 No fire
22:35	2422	3361	060057	S1G10 Delta 2.1 ms
22:36	2426	3365	060057	S2G02,07 No fire
22:37	2428	3367	060057	S2G08 No fire
23:40	2438	3377	060057	S2G02 NO FIRE
23:41	2443	3382	060057	S2G09/S2G10 NO FIRE
23:42	2444	3383	060057	S2G09 NO FIRE
23:45	2454	3393	060057	S2G10 No Fire
23:45	2456	3395	060057	S2G02 NO FIRE
23:47	2461	3400	060057	S2G02/10 NO FIRE
23:50	2473	3412	060057	S2G02/09 NO FIRE
23:52	2477	3416	060057	S2G01 NO FIRE
23:53	2481	3420	060057	S2G06 No fire
23:54	2485	3424	060057	S1G10 Deta -2.1 ms
23:57	2496	3435	060057	S2G09 NO FIRE
23:58	2508	3447	060057	S1G10 Deta 2.2 ms
00:01	2509	3448	060057	S2G01 NO FIRE
00:04	2516	3455	060057	S2G02/10/08 NO FIRE
00:04	2518	3457	060057	S2G9/2/10 No Fire
00:05	2522	3461	060057	S2G10 No Fire
00:09	2537	3476	060057	S2G09 NO FIRE
00:11	2543	3482	060057	S2G02 NO FIRE
00:12	2545	3484	060057	S2G09 NO FIRE
00:13	2551	3490	060057	S2G09 NO FIRE
00:15	2556	3495	060057	S1G10 Delta -2.5 ms
00:15	2557	3496	060057	S2G02 NO FIRE
00:16	2559	3498	060057	S2G02 NO FIRE
00:17	2561	3500	060057	S2G02 NO FIRE
00:18	2563	3502	060057	S2G09 NO FIRE
00:20	2572	3511	060057	S2G10 NO FIRE
00:21	2576	3515	060057	S2G10 NO FIRE
00:24	2586	3525	060057	S2G10 NO FIRE
00:25	2589	3528	060057	S1G10 DELTA TIMING -2.5 MS,S2G9 NO FIRE

00:25	2592	3531	060057	S2G10 NO FIRE
00:30	2607	3546	060057	S1G10 DELTA TIMING 2.2MS
00:30	2608	3547	060057	S2G8 NO FIRE
00:32	2616	3555	060057	S2G10 No Fire
00:34	2621	3560	060057	S1G10 DELTA TIMING -2.4 MS
00:39	2639	3578	060057	S2G2 DELTA TIMING 2.3 MS
00:41	2647	3586	060057	S3G2 DELTA TIMING 2.1 MS
00:43	2652	3591	060057	S1G10 DELTA TIMING 2.2MS
00:43	2653	3592	060057	S2G1 No Fire
00:43	2654	3593	060057	S2G09 NO FIRE
00:44	2656	3595	060057	S2G09 NO FIRE
00:44	2657	3596	060057	S1G10 DELTA TIMING 2.1 MS, S2G6 NO FIRE
00:45	2659	3598	060057	S2G9 No Fire
00:45	2662	3601	060057	S1G10 DELTA TIMING -2.3 MS
00:46	2665	3604	060057	S2G2,G9 NO FIRE
00:47	2669	3608	060057	S2G9 No Fire
00:48	2671	3610	060057	S2G10 No Fire
00:49	2673	3612	060057	S1G10 DELTA TIMING -2.2 MS
00:51	2682	3621	060057	S2G1 No Fire
00:52	2684	3623	060057	S1G10 NO FIRE
00:53	2687	3626	060057	S2G10 No Fire
00:53	2688	3627	060057	S2G1,G10 NO FIRE
00:53	2689	3628	060057	S2G9 No Fire
00:54	2694	3633	060057	S2G9 No Fire
00:55	2695	3634	060057	S1G10 DELTA TIMING -2.3 MS
00:57	2703	3642	060057	S2G9 No Fire
00:58	2708	3647	060057	S2G2 No Fire
00:59	2709	3648	060057	S2G10 No fire
01:00	2713	3652	060057	S2G2 No Fire
01:02	2720	3659	060057	S2G2 No Fire
01:04	2727	3666	060057	S2G1,G2 No fire
01:04	2728	3667	060057	S2G2 No Fire
01:05	2731	3670	060057	S2G10 No Fire
01:06	2741	3680	060057	String 1 and 2 powered down for recovery and repair new volume 3660
01:14	2762	3701	060057	S3G2 delta timing -2.3 ms
01:25	2801	3740	060058	Change reel 060057 to 060058
01:31	2817	3756	060058	S4G1 NO FIRE
01:33	2823	3762	060058	S4G1 NO FIRE
01:39	2840	3779	060058	S4G1 NO FIRE
01:47	2860	3799	060058	S4G1 NO FIRE
01:55	2882	3821	060058	S4G1 NO FIRE

01:57	2887	3826	060058	S4G1 NO FIRE
02:08	2917	3856	060058	S4G1 NO FIRE
02:31	2977	3916	060058	S4G1 NO FIRE
02:31	2978	3917	060058	S4G1 NO FIRE
02:32	2980	3919	060058	S4G1 NO FIRE
02:32	2981	3920	060058	S4G1 NO FIRE
02:42	3006	3945	060058	S4G1 NO FIRE
02:46	3018	3957	060058	S4G1 NO FIRE
02:47	3022	3961	060058	S4G1 NO FIRE
02:56	3044	3983	060058	S4G1 NO FIRE
03:04	3068	4007	060058	S4G1 NO FIRE
03:06	3072	4011	060058	S4G1 NO FIRE
03:17	3100	4039	060058	S4G1 NO FIRE
03:17	3102	4041	060058	S4G1 NO FIRE
03:22	3115	4054	060058	S4G1 NO FIRE
03:20	3113	4052	060058	String 1 deployed and in position
03:22	3116	4055	060058	String 1 dialed in Volume 5490
03:25	3122	4061	060058	S4G01 NO FIRE
03:27	3128	4067	060058	S4G1 NO FIRE
03:33	3142	4081	060058	S4G1 NO FIRE
03:33	3143	4082	060058	S4G1 NO FIRE
03:35	3147	4086	060058	S4G1 NO FIRE
03:38	3155	4094	060058	S4G1 NO FIRE
03:38	3156	4095	060058	S4G1 NO FIRE
03:40	3160	4099	060058	S4G1 NO FIRE
03:42	3167	4106	060058	S1G10 delta timing -2.1 ms
03:45	3175	4114	060058	S2G2 delta timing 2.2 ms
03:47	3178	4117	060058	S4G1 NO FIRE
03:48	3182	4121	060058	S2G2 delta timing 2.2 ms
03:50	3186	4125	060058	S2G2 delta timing -2.4 ms
03:50	3188	4127	060058	S4G1 NO FIRE
03:52	3193	4132	060058	S1G10 delta timing -2.4 ms
03:54	3200	4139	060058	S2G3 NO FIRE
03:56	3206	4145	060058	S2G2 delta timing -2.3 ms
03:58	3211	4150	060058	S1G10 delta timing 2.4 ms
04:00	3217	4156	060058	S1G10 delta timing 2.1 ms
04:01	3223	4162	060058	S1G10 delta timing -2.2 ms
04:02	3224	4163	060058	S1G10 delta timing 2.4 ms
04:04	3232	4171	060058	S2G2 delta timing -2.4 ms
04:04	3234	4173	060058	S2G2 delta timing -2.2 ms
04:05	3236	4175	060058	S2G2 delta timing 2.6 ms

04:08	3247	4186	060058	S2G2 delta timing 2.4 ms
04:21	3289	4228	060058	S1G10 delta timing -2.2 ms
04:23	3296	4235	060058	S1G10 delta timing -2.1 ms
04:26	3303	4242	060058	S1G10 delta timing -2.7 ms,S3G2 delta timing 2.1 ms
04:27	3309	4248	060058	S2G2 delta timing -2.2 ms
04:32	3325	4264	060058	S2G2 delta timing 2.1 ms
04:34	3331	4270	060058	S2G2 delta timing -2.1 ms
04:38	3345	4284	060058	S1G10 delta timing 2.1 ms
04:40	3350	4289	060058	S2G2 delta timing 2.2 ms
04:47	3371	4310	060058	S3G2 delta timing -2.1 ms
04:48	3374	4313	060058	S3G2 delta timing -2.3 ms
04:48	3376	4315	060058	S3G2 delta timing 2.3 ms
04:54	3393	4332	060058	S3G2 delta timing -2.5 ms
04:59	3410	4349	060058	S2G2 delta timing 2.1 ms
05:03	3425	4364	060058	S1G10 delta timing -2.4 ms
05:04	3426	4365	060058	S1G10 delta timing -2.3 ms, S2G2 delta timing 2.3 ms
05:04	3427	4366	060058	S1G10 delta timing 3.0 ms
05:07	3437	4376	060058	S1G10 delta timing -2.5 ms
05:12	3452	4391	060058	S1G10 delta timing -2.7 ms
05:18	3471	4410	060058	S2G2 delta timing -2.2 ms
05:24	3490	4429	060058	S4G1 NO FIRE
05:27	3499	4438	060058	S2G2 delta timing -2.4 ms
05:27	3501	4440	060059	Reel Change 060058 to 060059
05:53	3583	4522	060059	S2G3 NO FIRE
06:02	3612	4551	060059	S1G10 delta timing -2.3ms
06:08	3631	4570	060059	S2G4 No Fire
06:12	3645	4584	060059	S1G10 delta timing -3.1ms
06:13	3648	4587	060059	S1G10 delta timing 2.2ms
06:19	3668	4607	060059	S1G10 delta timing 2.2ms
06:20	3671	4610	060059	S1G10 delta timing 2.1ms
06:22	3678	4617	060059	S1G10 delta timing -2.7ms
06:23	3681	4620	060059	S1G10 delta timing 2.4ms
06:25	3686	4625	060059	S1G10 delta timing -2.9ms
06:27	3695	4634	060059	S1G10 delta timing -2.3ms
06:34	3716	4655	060059	S3G10 deata timing -2.1ms
06:48	3762	4701	060059	S3G10 deata timing -2.4ms
07:03	3808	4747	060059	S2G02 delta -2.1ms
07:04	3813	4752	060059	S1G10 delta -2.4ms
07:07	3820	4759	060059	S1G10 delta -2.3ms
07:08	3824	4763	060059	S2G02 delta 2.2ms
07:09	3828	4767	060059	S1G10 delta -2.4ms

07:10	3830	4769	060059	S1G10 delta 2.3ms
07:10	3832	4771	060059	S2G02 delta 2.2ms
07:16	3849	4788	060059	S1G10 delta -2.8ms
07:18	3855	4794	060059	S1G10 delta -2.6ms
07:18	3857	4796	060059	S1G10 Delta 2.1 ms
07:20	3864	4803	060059	S1G10 Delta 2.1 ms
07:22	3868	4807	060059	S1G10 delta -2.4ms
07:24	3874	4813	060059	S1G10 delta -2.4ms
07:30	3893	4832	060059	S1G10 Delta -2.1 ms
07:31	3897	4836	060059	S1G10 Delta -2.9 ms
07:35	3909	4848	060059	Bird 13 and 14 out of spec 11 meters. Up fin on B14 to +8.8 degrees
07:37	3916	4855	060059	S1G10 delta -2.3ms
07:38	3919	4858	060059	S2G02 delta 2.2ms
07:38	3921	4860	060059	S2G02 delta 2.2ms
07:47	3948	4887	060059	S1G10 delta 2.7ms
07:48	3953	4892	060059	S1G10 delta -2.3ms
07:53	3970	4909	060059	S1G10 delta 2.1ms
07:55	3980	4919	060059	S1G10 delta 2.9ms
07:58	3985	4924	060059	S1G10 Delta -2.1 ms
07:58	3986	4925	060059	S1G10 delta 2.3ms
07:59	3990	4929	060059	S1G10 delta -2.3ms
08:04	4005	4944	060059	S1G10 Delta -3 ms
08:05	4007	4946	060059	S1G10 Delta 2.3 ms
08:06	4011	4950	060059	S1G10 Delta 2.5 ms
08:06	4013	4952	060059	S1G10 Delta -2.7 ms
08:08	4017	4956	060059	S1G10 Delta -2.2 ms
08:12	4031	4970	060059	S1G10 Delta -2.4 ms
08:13	4034	4973	060059	S1G10 Delta 3.0 ms
08:16	4045	4984	060059	S1G10 Delta -2.9 ms
08:18	4053	4992	060059	S1G10 Delta -2.4 ms
08:19	4056	4995	060059	S1G10 Delta 2.5 ms
08:21	4061	5000	060059	S1G10 Delta -3.0 ms
08:23	4069	5008	060059	S1G10 Delta -2.1 ms
08:24	4071	5010	060059	S1G10 Delta 2.2 ms
08:25	4075	5014	060059	S1G10 Delta -2.3 ms
08:27	4081	5020	060059	S1G10 Delta -2.2 ms
08:32	4098	5037	060059	S1G10 Delta -2.5 ms
08:34	4103	5042	060059	S1G10 Delta 2.5 ms
08:37	4116	5055	060059	S1G10 Delta 2.3 ms
08:38	4118	5057	060059	S1G10 Delta -2.3 ms
08:41	4129	5068	060059	S1G10 Delta 2.3 ms

08:42	4131	5070	060059	S1G10 Delta -2.9 ms
08:45	4142	5081	060059	S1G10 Delta 2.1 ms
08:46	4143	5082	060059	S3G02 Delta -2.3 ms
09:03	4201	5140	060060	Reel Change 060059 to 060060
09:06	4210	5149	060060	B13 out of spec, 10.2m
09:09	4223	5162	060060	B13 back in spec, max depth 10.2
09:11	4229	5168	060060	S2G02 Delta -2.1 ms
09:23	4269	5208	060060	S2G01 NO FIRE
10:33	4501	5440	060060	S2G02 Delta -2.3
10:57	4581	5520	060060	B13 out of spec, 10.2m
11:00	4591	5530	060060	B13 back in spec, max depth 10.2
11:06	4607	5546	060060	EOL LAT 21D20.785 N LON 123D 44.244 E Seas 3-6 ft. Wind 10 kts.Depth 5406 Hdt 180 SMG5.2 kts.Fth -3.6 degree

Observers Log	
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Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczyński
Observers	

Line	MGL0906_25
Sequence	036
Direction	297 DEG.

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	15s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments	
11:30 SOL SP1104 File 0001 Lat 21d 21.2467 N Lon123d 42.3985 E	
14:11 Spared S4G2 Brought on S4G5	
15:46 Change reel 060061 to 060062 at SP 1804	
19:56 REEL CHANGE 060062-060063 SP 2503	
00:25 reel change 060063-060064 SP3203	
02:56bird 16 out of spec 3.5 meters SP 3650	
04:21 SP3099 B13,14,16,17, out of spec>7m,(B16 @1.7m)	
10:37 EOL MGL09_06_025-Seq 036 SP5065 Lat 22d00.2717 N Lon 122d00.1344 E3962	
Line Status:	Complete

Abbreviations	
SOLEOL - Start/End of Line	LGSP - Last Good SP
FSOP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	Si - Seismic Interference
NDR - No Data Recorded	ITB - Initiation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
11:30	1	1104	060061	SOL MGL09_06_025-S036
11:32	5	1108	060061	S2G02 Delta Timing at -2.6 ms
11:41	29	1132	060061	S2G02 Delta Timing at -2.6 ms
12:29	161	1264	060061	S2G02 Delta Timing at -2.2 ms
12:46	206	1309	060061	S2G02 Delta Timing at -2.2 ms
12:56	233	1336	060061	B13,+10 fin ,14,+14.5,15 +15, out of spec 10.2 m.
13:00	243	1346	060061	S1G10 DELTA TIMING 4.0MS
13:00	245	1348	060061	S1G10 DELTA TIMING -2.4MS
13:01	246	1349	060061	S2G2 DELTA TIMING -2.1MS
13:07	262	1365	060061	B13,14,15, in spec.
13:16	287	1390	060061	S2G2 DELTA TIMING 2.5MS
13:19	294	1397	060061	S2G2 DELTA TIMING -2.5MS
13:21	299	1402	060061	S2G2 DELTA TIMING 2.3MS
13:21	301	1404	060061	S1G10 DELTA TIMING 3.2MS
13:24	307	1410	060061	S1G10 DELTA TIMING 3.0MS
13:26	315	1418	060061	S2G2 DELTA TIMING -2.6MS
13:29	322	1425	060061	S1G10 DELTA TIMING 2.8MS
13:29	323	1426	060061	S2G2 DELTA TIMING -3.0MS
13:30	324	1427	060061	S1G10 DELTA TIMING -2.3MS
13:32	330	1433	060061	S1G10 DELTA TIMING 3.0MS
13:36	340	1443	060061	S2G2 DELTA TIMING -2.1MS
13:38	346	1449	060061	S1G10 DELTA TIMING -2.3MS
13:39	349	1452	060061	S1G10 DELTA TIMING -2.3MS
13:44	363	1466	060061	S1G10 DELTA TIMING 2.5MS
13:44	364	1467	060061	S1G10 DELTA TIMING -2.4MS
13:45	365	1468	060061	S1G10 DELTA TIMING 2.4MS
13:45	366	1469	060061	S2G2 DELTA TIMING -2.1MS

13:46	367	1470	060061	S1G10 DELTA TIMING -2.1MS
13:48	373	1476	060061	S2G2 DELTA TIMING 2.3MS
13:50	378	1481	060061	S2G2 DELTA TIMING -2.5MS
13:51	382	1485	060061	S2G2 DELTA TIMING -2.1MS
13:55	392	1495	060061	S1G10 DELTA TIMING -2.2MS
13:57	398	1501	060061	S1G10 DELTA TIMING 2.5MS
13:59	405	1508	060061	S2G2 DELTA TIMING -2.6MS
14:02	413	1516	060061	S1G10 DELTA TIMING 2.1 MS
14:02	414	1517	060061	S1G10 DELTA TIMING 2.1 MS
14:03	415	1518	060061	S1G10 DELTA TIMING -2.6 MS
14:05	423	1526	060061	S4G2 NO FIRE
14:06	424	1527	060061	S4G2 NO FIRE
14:06	425	1528	060061	S4G2 NO FIRE
14:07	426	1529	060061	S4G2 NO FIRE,S2G2 DELTA TIMING 2.1MS
14:07	427	1530	060061	S4G2 NO FIRE
14:08	428	1531	060061	S4G2 NO FIRE
14:08	429	1532	060061	S2G2 DELTA TIMING 2.2MS
14:08	430	1533	060061	S4G2 NO FIRE
14:09	433	1536	060061	S4G2 NO FIRE
14:09	434	1537	060061	S4G2 NO FIRE
14:10	435	1538	060061	S4G2 NO FIRE
14:10	436	1539	060061	S4G2 NO FIRE,S2G2 DELTA TIMING 2.1MS
14:10	437	1540	060061	S4G2 NO FIRE
14:11	439	1542	060061	S4G2 NO FIRE
14:11	440	1543	060061	S4G2 NO FIRE S4G2 spared and S4G5 brought on line
14:12	442	1545	060061	S4G5 DELTA TIMING 3.6 MS
14:12	443	1546	060061	S4G5 DELTA TIMING -2.2 MS
14:13	445	1548	060061	S2G2 DELTA TIMING -2.6 MS
14:14	448	1551	060061	S1G10 DELTA TIMING -2.2 MS
14:16	452	1555	060061	S2G2 DELTA TIMING 2.7MS
14:18	458	1561	060061	S1G10 DELTA TIMING 3.1 MS
14:20	463	1566	060061	S2G2 DELTA TIMING 2.2 MS
14:21	467	1570	060061	S1G10 DELTA TIMING 3.3 MS
14:26	481	1584	060061	S1G10 DELTA TIMING 2.8 MS
14:27	483	1586	060061	S1G10 DELTA TIMING -2.2 MS
14:30	492	1595	060061	S2G2 DELTA TIMING 2.2 MS
14:31	494	1597	060061	S1G10 DELTA TIMING 3.5 MS
14:33	501	1604	060061	S1G10 DELTA TIMING 3.1 MS
14:35	505	1608	060061	S1G10 DELTA TIMING -2.7 MS
14:36	507	1610	060061	S2G2 DELTA TIMING 2.5 MS
14:36	509	1612	060061	S2G2 DELTA TIMING -2.2 MS

14:38	515	1618	060061	S1G10 DELTA TIMING 3.4 MS
14:39	517	1620	060061	S1G10 DELTA TIMING -2.5 MS
14:40	519	1622	060061	S2G2 DELTA TIMING 2.2 MS
14:42	525	1628	060061	S1G10 DELTA TIMING 4.1 MS,S2G2 DELTA TIMING -2.1 MS
14:43	528	1631	060061	S1G10 DELTA TIMING 2.2 MS
14:44	530	1633	060061	S1G10 DELTA TIMING -3.1 MS
14:44	531	1634	060061	S1G10 DELTA TIMING 2.5 MS
14:45	533	1636	060061	S1G10 DELTA TIMING -2.1 MS
14:46	536	1639	060061	S2G2 DELTA TIMING -2.4 MS
14:46	537	1640	060061	S1G10 DELTA TIMING -2.6 MS
14:47	540	1643	060061	S1G10 DELTA TIMING -2.5 MS
14:47	541	1644	060061	S1G10 DELTA TIMING 2.7 MS
14:48	543	1646	060061	S1G10 DELTA TIMING -2.4 MS
14:50	547	1650	060061	S1G10 DELTA TIMING -3.6 MS
14:50	549	1652	060061	S1G10 DELTA TIMING 2.8 MS
14:51	562	1665	060061	S1G10 DELTA TIMING -2.8 MS
14:52	553	1656	060061	S1G10 DELTA TIMING 2.3MS
14:53	556	1659	060061	S1G10 DELTA TIMING -3.1 MS
14:54	558	1661	060061	S1G10 DELTA TIMING 2.7MS
14:54	560	1663	060061	S1G10 DELTA TIMING 2.2 MS
14:56	564	1667	060061	S1G10 DELTA TIMING 2.1 MS
14:56	565	1668	060061	S1G10 DELTA TIMING -2.9 MS
14:59	572	1675	060061	S2G2 DELTA TIMING 3.2 MS
14:59	574	1677	060061	S2G2 DELTA TIMING -2.1 MS
15:00	576	1679	060061	S1G10 DELTA TIMING 4.6 MS
15:01	580	1683	060061	S1G10 DELTA TIMING 2.3 MS
15:03	585	1688	060061	S1G10 DELTA TIMING 2.8 MS
15:05	589	1692	060061	S1G10 DELTA TIMING 2.8 MS
15:06	591	1694	060061	S1G10 DELTA TIMING -2.5 MS
15:08	597	1700	060061	S1G10 DELTA TIMING 3.7 MS
15:09	601	1704	060061	S1G10 DELTA TIMING -4.1 MS
15:14	614	1717	060061	S1G10 DELTA TIMING 3.6 MS
15:15	616	1719	060061	S1G10 DELTA TIMING -2.5 MS
15:46	701	1804	060062	Reel Change 060061 to 060062
16:10	763	1866	060062	S3G02 delta -2.9 ms
16:13	772	1875	060062	S3G2 delta 2.1ms
16:22	796	1899	060062	S3G2 delta 2.3ms
16:41	846	1949	060062	S1G10 delta 3.2ms
16:42	849	1952	060062	S1G10 delta -2.9ms
16:43	853	1956	060062	S3G2 delta -2.6ms
16:48	865	1968	060062	S1G10 delta 2.6ms

16:52	876	1979	060062	S1G10 delta 2.7ms
16:54	882	1985	060062	S1G10 delta -2.5ms
16:58	892	1995	060062	S1G10 delta 2.9ms
16:58	893	1996	060062	S1G10 delta -2.5ms
16:59	896	1999	060062	S1G10 delta 2.5ms
17:02	903	2006	060062	S1G10 delta 3.5ms
17:02	904	2007	060062	S1G10 delta -2.6ms
17:05	912	2015	060062	S1G10 delta 3.9ms
17:06	915	2018	060062	S1G10 delta -2.4ms
17:07	917	2020	060062	S1G10 delta 3.2ms
17:08	919	2022	060062	S1G10 delta -3.1ms
17:09	922	2025	060062	S1G10 delta 2.6ms
17:09	924	2027	060062	S1G10 delta -2.3ms
17:11	928	2031	060062	S1G10 delta -2.6ms
17:12	931	2034	060062	S1G10 delta -2.6ms
17:13	934	2037	060062	S1G10 delta 2.3ms
17:14	937	2040	060062	S1G10 delta -3.2ms
17:16	942	2045	060062	S1G10 delta -2.5ms
17:17	947	2050	060062	S1G10 delta -2.4ms
17:18	948	2051	060062	S1G10 delta 2.1ms
17:18	949	2052	060062	S1G10 delta 6.3ms
17:19	952	2055	060062	S1G10 delta -2.2ms
17:20	956	2059	060062	S1G10 delta -3.2ms
17:21	957	2060	060062	S1G10 delta -3.6ms
17:24	965	2068	060062	S1G10 delta -2.3ms
17:25	968	2071	060062	S3G2 delta -3.2ms
17:26	969	2072	060062	S3G2 delta -2.3ms
17:27	972	2075	060062	S1G10 delta -2.3ms
17:28	975	2078	060062	S1G10 delta -2.1ms
17:32	984	2087	060062	S1G10 delta -2.6ms
17:33	987	2090	060062	S1G10 delta -2.9ms
17:33	989	2092	060062	S1G10 delta 2.7ms
17:35	994	2097	060062	S1G10 delta -2.6ms
17:36	996	2099	060062	S1G10 delta -2.4ms
17:36	997	2100	060062	S1G10 delta -2.6ms
17:37	999	2102	060062	S1G10 delta -3.0ms
17:38	1001	2104	060062	S1G10 delta 2.6ms
17:38	1003	2106	060062	S1G10 delta -2.8ms
17:44	1018	2121	060062	S1G10 delta -2.6ms
17:45	1022	2125	060062	S1G10 delta -2.6ms
17:46	1024	2127	060062	S1G10 delta 2.2ms

17:46	1026	2129	060062	S1G10 delta -3.0ms
17:48	1031	2134	060062	S1G10 delta 2.6ms
17:50	1036	2139	060062	S1G10 delta -2.2ms
17:52	1041	2144	060062	S1G10 delta -2.2ms
17:55	1049	2152	060062	S1G10 delta -2.8ms
17:55	1051	2154	060062	S1G10 delta 2.1ms
17:56	1054	2157	060062	S1G10 delta -3.1ms
18:01	1066	2169	060062	S1G10 delta -2.4ms
18:03	1073	2176	060062	S1G10 delta -3.3ms
18:06	1080	2183	060062	S1G10 delta 2.6ms
18:07	1083	2186	060062	S1G10 delta -2.9ms
18:09	1091	2194	060062	S1G10 delta -3.0 ms
18:10	1093	2196	060062	S1G10 2.6ms
18:14	1103	2206	060062	S1G10delta 2.2ms
18:14	1104	2207	060062	S1G10 delta -2.4ms
18:17	1113	2216	060062	S1G10 delta -2.3ms
18:18	1116	2219	060062	S1G10 delta -2.1ms
18:19	1118	2221	060062	S1G10 delta 2.3ms
18:20	1121	2224	060062	S1G10 delta -3.1ms
18:22	1124	2227	060062	S1G10 delta 2.3ms
18:28	1144	2247	060062	S1G10 delta 2.3ms
18:30	1149	2252	060062	S1G10 delta -2.5ms
18:32	1154	2257	060062	S1G10 delta -3ms
18:34	1160	2263	060062	S1G10 delta -2.7ms
18:40	1178	2281	060062	S1G10 delta -2.3ms
19:23	1302	2405	060062	S2G2 delta 2.3ms
19:58	1406	2509	060062	s1g10 DELTA 3.3MS
19:56	1400	2503	060063	Reel Change 060062 to 060063
20:18	1461	2564	060063	S1G10 delta 2.9ms
20:20	1465	2568	060063	S1G10 delta -2.5ms
20:21	1467	2570	060063	S1G10 delta 2.2ms
20:25	1480	2583	060063	S1G10 delta -2.3ms
20:32	1500	2603	060063	s1g10 DELTA 3.3MS
20:38	1517	2620	060063	S1G10 delta 2.9ms
20:39	1520	2623	060063	S1G10 delta -2.6ms
20:48	1545	2648	060063	S1G10 DELTA 2.8ms
20:49	1547	2650	060063	S1G10 delta -2.4ms
21:00	1576	2679	060063	S1G10 delta 2.2ms
21:01	1578	2681	060063	S2G2 DELTA -2.3 ms
21:15	1615	2718	060063	S2G02 DELTA 2.2ms
21:16	1616	2719	060063	S2G02 DELTA 2.2ms

21:24	1638	2741	060063	S2G02 DELTA -2.2ms
21:25	1639	2742	060063	S2G02 DELTA 2.1ms
21:35	1664	2767	060063	S2G02 DELTA -2.2ms
21:36	1667	2770	060063	S2G02 DELTA 2.2ms
21:59	1720	2823	060063	S2G02 DELTA -2.2ms
22:02	1727	2830	060063	S2G02 DELTA 2.8ms
22:11	1749	2852	060063	S2G02 DELTA -2.6ms
22:18	1765	2868	060063	S2G02 DELTA -2.8ms
22:27	1786	2889	060063	S2G02 DELTA -2.1ms
22:34	1804	2907	060063	S2G02 DELTA 2.2ms
22:39	1814	2917	060063	S2G02 DELTA 2.2ms
22:52	1846	2949	060063	S2G02 DELTA 2.5ms
22:53	1850	2953	060063	S2G02 DELTA 2.3ms
23:02	1874	2977	060063	S2G02 DELTA 2.2ms
23:05	1882	2985	060063	S2G02 DELTA 2.3ms
23:10	1894	2997	060063	S2G02 DELTA 2.2ms
23:10	1895	2998	060063	S2G02 DELTA -2.1ms
23:13	1902	3005	060063	S2G02 DELTA 2.7ms
23:24	1930	3033	060063	S2G02 DELTA 2.1ms
23:35	1960	3063	060063	S2G02 DELTA 2.3ms
23:42	1980	3083	060063	S2G02 DELTA -2.2ms
23:44	1986	3089	060063	S2G02 DELTA 3.0ms
00:25	2100	3203	060064	Reel Change 060063 to 060064
00:40	2146	3249	060064	S2G2 DELTA -2.1ms
00:52	2183	3286	060064	S3G2 DELTA -2.9ms
00:53	2184	3287	060064	S3G2 DELTA 2.2ms
01:04	2217	3320	060064	S2G02 DELTA 2.2ms
01:13	2248	3351	060064	S2G02 DELTA 2.1ms
01:14	2250	3353	060064	S2G02 DELTA 2.1ms
01:30	2298	3401	060064	S2G02 DELTA 2.3ms
01:31	2302	3405	060064	S2G1 NO FIRE
01:39	2326	3429	060064	S2G02 DELTA 2.7ms
02:16	2434	3537	060064	S2G02 DELTA 3.5ms
02:16	2435	3538	060064	S2G02 DELTA -2.2ms
02:38	2500	3603	060064	S2G02 DELTA -2.2 ms
02:56	2552	3655	060064	S1G10 delta 3.7ms
02:57	2553	3656	060064	S1G10 delta -2.5ms
02:58	2556	3659	060064	S2G02 DELTA 2.1 ms
03:01	2564	3667	060064	S2G02 DELTA -2.4 ms
03:02	2567	3670	060064	S2G02 DELTA 2.2 ms
03:03	2569	3672	060064	S2G02 DELTA -2.3 ms

03:15	2605	3708	060064	S2G02 DELTA 2.4 ms
03:18	2613	3716	060064	S2G02 DELTA 2.3 ms
03:19	2618	3721	060064	S2G02 DELTA 2.9 ms
03:41	2679	3782	060064	S2G02 DELTA 2.1 ms
03:51	2709	3812	060064	S2G02 DELTA 2.4 ms
03:57	2727	3830	060064	S1G10 delta 4.0ms
04:02	2740	3843	060064	S2G02 DELTA -2.2 ms
04:10	2563	3666	060064	s3g02 DELTA -2.4MS
04:21	2797	3900	060064	Birds 13,14,16,and 17 out of spec>7 meters. (16 at1.7m).
04:22	2801	3904	060065	Change reels
04:35	2833	3937	060065	Bird 15 at 7.8m, Birds 16-19 at ~2m, Bird 20 at 7m
04:44	2860	3964	060065	Birds 13,14,15 set to 10.5-12m
04:52	2881	3984	060065	S2G02 DELTA 2.3 ms
04:57	2897	4000	060065	S2G02 DELTA -2.2 ms
05:09	2931	4035	060065	B13-15 at 10m, B16 at 2.8m, B17 at 7.5m, B18-21 at 9.8m
05:17	2953	4056	060065	S3G02 DELTA -2.1 ms
05:45	3029	4132	060065	S2G02 DELTA 2.3 ms
05:55	3056	4159	060065	B16-20 ~2m
06:15	3119	4223	060065	B18,19,20 set to 10.5 m. B16 at 3m. All others in spec.
06:26	3153	4256	060065	S1G10 delta 2.9ms
06:53	3240	4343	060065	S1G10 delta 2.8ms
06:53	3242	4345	060065	S1G10 delta 3.0ms
06:54	3244	4347	060065	S1G10 delta 3.5ms
06:54	3245	4348	060065	S1G10 delta -3.3ms
06:55	3247	4350	060065	S1G10 delta -2.2ms
06:55	3249	4352	060065	S1G10 delta -2.3ms
06:56	3252	4355	060065	S1G10 delta -3.1ms
07:15	3316	4419	060065	S1G10 delta 2.5ms
07:17	3320	4423	060065	S1G10 delta -3.5ms
07:17	3321	4424	060065	S1G10 delta -3.1ms
07:18	3325	4428	060065	S1G10 delta -3.2ms
07:37	3389	4492	060065	S1G10 delta 2.1ms
07:38	3392	4495	060065	S1G10 delta 3.6ms
07:38	3393	4496	060065	S1G10 delta -2.4ms
07:45	3414	4517	060065	S1G10 delta 2.1ms
08:11	3501	3604	060066	Change reels 060065 to 060066
08:44	3613	4716	060066	S2G01 No fire
09:32	3768	4871	060065	S3G02 Delta 2.1 ms
09:34	3774	4877	060066	S3G02 Delta 2.1 ms
09:37	3784	4887	060066	S3G02 Delta 2.6 ms
10:00	3853	4956	060066	S1G10 delta 2.5ms

10:02	3858	4961	060066	S1G10 delta -2.8ms
10:03	3863	4966	060066	S1G10 delta 3.4ms
10:04	3864	4967	060066	S1G10 delta 3.9ms
10:11	3884	4987	060066	S1G10 delta 3.9ms
10:11	3886	4989	060065	S1G10 delta 2.4ms
10:12	3887	4990	060066	S1G10 delta 2.4ms
10:13	3891	4994	060066	S1G10 delta 3.2ms
10:13	3892	4995	060066	S1G10 delta -2.1ms
10:14	3893	4996	060066	S1G10 delta -2.4ms
10:14	3894	4997	060066	S1G10 delta -2.3ms
10:14	3895	4998	060066	S1G10 delta -2.7ms
10:15	3896	4999	060066	S1G10 delta 2.9ms
10:19	3908	5011	060065	S1G10 delta -2.1ms
10:28	3936	5039	060066	S1G10 delta -2.4ms
10:29	3939	5042	060066	S1G10 delta 2.3ms
10:29	3939	5042	060066	S4G2 on to test and on thru EOL SP 5065, S4G5 off.
10:37	3962	5065	060066	EOL Lat 22d10.2717 N Lon 122.00.1344 E

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #	060067	060069	FGSP	1044
SP #	1139	2730	LGSP	2730

Line	MGL0906_26
Sequence	037
Direction	0 DEG.

Streamer Parameters				
	1	2	3	4
Length			6000	
Auxiliaries				
Shotpoint Interval:			75	
Offset CS - CFG			161	
Group Interval:			12.5	
Number of channels			468	
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	16s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/29/09	05/29/09
Time UTC	10:49	22:54
Volume (cu in.)	6600	5130
Streamer Depth (m)	9	9
Wind (kts)	11 kts	16
Sea State (ft)	4-7 ft.	7-9
Water Depth (m)	4500	4847

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments:

10:49 SOL MGL09_06_026_Seq037 SP1039 Lat 22d11.5677 N Lon 122d00.0022 E
12:16 After looking at file and SP it looks like SOL SP was 1041, see note at SP1200 in events log.
12:02Spared S4G2 brought on S4G5 SP1237
21:58 String 2 secured S1G05.S3G05 Active SP2589 New Volume 5130
22:32 Gun string 2 recovery for repairs
Last reel 060069 last file 1690
22:54 EOL LAT 023 20.25985 N LONG 121 59.98413 E

Line Status:

Abbreviations

SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Initiation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
10:49	1	1041	060067	SOL MGL09_06_026_S037 Lat 22d11.5677 N Lon 122d00.0022 E
10:49	1	1041	060067	Strings 3 and 4 off
10:52	4	1044	060067	FGSP
11:23	90	1130	060067	B16 thru 21 out of spec > 3m. B19@ .8m
11:45	150	1190	060067	B16,17,18 Out of spec but 17 and 18 is coming in after turn guns S3&S4being deployed.
11:49	160	1200	060067	test=file 160
11:51	166	1206	060067	Array 4 online
11:54	175	1215	060067	Array 3 online all 4 strings firing
11:56	180	1220	060067	S1G10 delta timing 2.5 ms, S2G4 nofire
11:56	181	1221	060067	S4G2 no fire
11:57	182	1222	060067	S4G2 no fire
11:57	183	1223	060067	S4G2 no fire
11:58	184	1224	060067	S4G2 no fire
11:58	185	1225	060067	S4G2 no fire
11:58	186	1226	060067	S4G2 no fire
11:58	187	1227	060067	S4G2 no fire
11:59	188	1228	060067	S4G2 no fire
11:59	189	1229	060067	S4G2 no fire
11:59	190	1230	060067	S4G2 no fire
12:00	191	1231	060067	S4G2 no fire
12:00	192	1232	060067	S4G2 no fire
12:01	193	1233	060067	S4G2 no fire
12:01	194	1234	060067	S4G2 no fire
12:01	195	1235	060067	S4G2 no fire
12:02	196	1236	060067	S4G2 no fire
12:02	197	1237	060067	Spared S4G2 brought on S4G5
12:02	198	1238	060067	S4G5 delta timing 2.8 ms

12:03	199	1239	060067	S4G5 delta timing -2.1 ms
12:40	303	1343	060067	S3G3 delta timing -2.3 ms.
12:40	305	1345	060067	S3G3 delta timing 2.1 ms.
12:42	311	1351	060067	S1G10 delta timing -2.1 ms.
12:53	343	1383	060067	S1G10 delta timing 2.9 ms.
12:55	348	1388	060067	S1G10 delta timing 2.6 ms.
12:57	354	1394	060067	S1G10 delta timing -2.9 ms.
13:04	372	1412	060067	S1G10 delta timing 3.7 ms.
13:04	373	1413	060067	S1G10 delta timing -2.6 ms.
13:08	385	1425	060067	S1G10 delta timing 2.5 ms.
13:13	398	1438	060067	S1G10 delta timing 3.2 ms.
13:13	399	1439	060067	S1G10 delta timing -2.1 ms.
13:20	418	1458	060067	S1G10 delta timing 2.3 ms.
13:23	424	1464	060067	S1G10 delta timing 3.4 ms.
13:24	426	1466	060067	S1G10 delta timing -2.9 ms.
13:26	434	1474	060067	S1G10 delta timing -2.7 ms. S3G2 delta timing -2.2 ms.
13:31	447	1487	060067	S1G10 delta timing 3.4 ms.
13:32	448	1488	060067	S1G10 delta timing -2.2 ms.
13:45	483	1523	060067	S1G10 delta timing 2.5 ms.
13:50	496	1536	060067	S1G10 delta timing 3.2 ms.
13:51	498	1538	060067	S1G10 delta timing -2.7 ms.
13:53	504	1544	060067	S1G10 delta timing 3.3 ms.
13:53	505	1545	060067	S1G10 delta timing -2.4 ms.
14:17	563	1603	060067	S2G1 no fire
14:19	569	1609	060067	S2G1,G3 no fire
14:20	571	1611	060067	S2G1,G6 no fire
14:37	610	1650	060067	S1G10 delta timing 3.0 ms.
14:37	611	1651	060067	S1G10 delta timing -3.7 ms.
14:43	625	1665	060067	S2G6 no fire
14:43	626	1666	060067	S2G6 no fire
14:46	632	1672	060067	S2G1,G6 no fire
14:48	638	1678	060067	S2G2,G4 no fire
14:54	650	1690	060067	S2G2,G4 no fire
14:57	657	1697	060068	change reel 060067 to 060068
15:00	665	1705	060068	S2G4 no fire
15:02	670	1710	060068	S2G2,G4 no fire
15:03	672	1712	060068	S2G2,G4 no fire
15:04	674	1714	060068	S2G1,G2 no fire
15:05	675	1715	060068	S2G2 no fire
15:05	676	1716	060068	S2G1G4,G10 no fire
15:07	682	1722	060068	S2G1,G2,G3,G4,G5,G6,G7,G8 no fire
15:08	683	1723	060068	S2G3 no fire
15:08	684	1724	060068	S2G8,G10 no fire
15:09	685	1725	060068	S2G2 no fire,S3G2 delta timing -2.1 ms.
15:10	688	1728	060068	S2G8 no fire
15:12	692	1732	060068	S2G4 no fire
15:13	695	1735	060068	S2G6 no fire
15:14	696	1736	060068	S3G2 delta timing 3.2 ms.
15:15	700	1740	060068	S2G4 no fire
15:16	701	1741	060068	S2G1,G2,G4 no fire
15:16	702	1742	060068	S2G4,G9 no fire
15:17	705	1745	060068	S2G6 no fire
15:19	708	1748	060068	S2G1 no fire
15:20	710	1750	060068	S2G1,G2,G3,G8 no fire

15:20	711	1751	060068	S2G2,G4 no fire
15:21	533	1573	060068	S2G2,G4 no fire
15:24	721	1761	060068	S2G3,G6,G8 G10 no fire
15:27	728	1768	060068	S2G1,G2,G3,G4,G8,G10 no fire,S3G2 delta timing -2.2 ms.
15:28	729	1769	060068	S2G1,G2,G3,G8 no fireS3G2 delta timing 2.3 ms.
15:32	739	1779	060068	S2G1,G3,G8,G9 no fire
15:35	745	1785	060068	S2G1,G9 no fire
15:35	746	1786	060068	S2G4 no fire
15:36	747	1787	060068	S2G1,G3 no fire
15:48	773	1813	060068	S2G1,G3 no fire
15:48	775	1815	060068	S2G1,G4,G6,G8,G9 no fire
15:48	776	1816	060068	S2G1,G3,G4,G10 no fire
15:49	777	1817	060068	S2G10 no fire
15:53	785	1825	060068	S2G1,G2,G8,G9,G10 no fire
15:53	786	1826	060068	S2G1,G2,G4,G10 no fire
15:54	787	1827	060068	S2G1,G4,G9 no fire
15:54	788	1828	060068	S2G1,G2,G3,G4,G10 no fire
15:55	789	1829	060068	S2G4 no fire
15:55	791	1831	060068	S2G1,G2,G10 no fire
15:56	792	1832	060068	S2G1,G2,G6 no fire
15:56	793	1833	060068	S2G1,G2 no fire
15:57	794	1834	060068	S2G1,G4 no fire
15:57	795	1835	060068	power cvcle String 2
15:58	796	1836	060068	S2G1,G2,G3,G4 no fire
15:59	799	1839	060068	S2G1,G3,G4 no fire
16:01	803	1843	060068	S2G1,G6 no fire
16:01	804	1844	060068	S2G1 no fire
16:02	805	1845	060068	s1g1,3,4,6,7,8,9, NO FIRE
16:02	806	1846	060068	S2G02 NO FIRE
16:03	807	1847	060068	S2G01 03 04 NO FIRE
16:03	808	1848	060068	S2G01 NO FIRE
16:04	809	1849	060068	S2G04 NO FIRE
16:04	810	1850	060068	S2G 01 04 06 NO FIRE
16:07	816	1856	060068	S2G01 03 NO FIRE
16:08	817	1857	060068	S2G06 NO FIRE
16:08	818	1858	060068	S2G01 04 NO FIRE
16:08	819	1859	060068	S2G04 NO FIRE
16:11	825	1865	060068	S4G01 delta 2.5ms
16:11	826	1866	060068	S2G03 no fire
16:13	829	1869	060068	S2G01 02 no fire
16:14	831	1871	060068	s2g06 08 09 10 no fire
16:14	832	1872	060068	S2G04 NO FIRE
16:16	836	1876	060068	S2G07 08 09 no fire
16:17	838	1878	060068	S2G01 02 03 06 09 no fire
16:18	839	1879	060068	S2G01 02 03 06 09 no fire
16:18	840	1880	060068	S2G01 02 04 06 08 no fire
16:21	846	1886	060068	S1G10 delta 2.8ms
16:23	847	1887	060068	S1G10 delta -3.2ms
16:24	851	1891	060068	S2G06 09 no fire
16:24	852	1892	060068	S1G10 delta 2.7ms
16:25	853	1893	060068	S1G10 delta -2.2ms
16:28	860	1900	060068	S2G01 02 03 04 06 no fire
16:29	861	1901	060068	S2G04 no fire S1G10 delta -2.3ms
16:29	862	1902	060068	S2G06 no fire

16:31	865	1905	060068	S1G10 delta 2.6ms
16:32	868	1908	060068	S2G04 no fire
16:34	871	1911	060068	S1G10 delta -2.3ms
16:35	874	1914	060068	S2G10 no fire
16:37	877	1917	060068	S1G10 delta 2.8 ms S2G09 10 no fire
16:39	880	1920	060068	S2G04 no fire
16:39	881	1921	060068	S2G03 no fire
16:40	883	1923	060068	S1G10 delta 3.2ms
16:41	884	1924	060068	S1G10 delta -2.4ms S2G09 no fire
16:42	887	1927	060068	S2G01 no fire
16:43	888	1928	060068	S1G10 delta 2.2ms
16:43	889	1929	060068	S1G10 delta -2.8ms
16:53	908	1948	060068	S1G10 delta 2.6ms
16:54	909	1949	060068	S1G10 DELTA -2.3MS
16:55	911	1951	060068	S1G10 delta -2.8ms
16:56	913	1953	060068	S1G10 delta -2.1ms
16:56	914	1954	060068	S1G10 delta 3.1ms
16:57	916	1956	060068	S1G10 delta 2.1ms
16:59	920	1960	060068	S1G10 delta -3.1ms
17:01	924	1964	060068	S1G10 delta -2.3ms
17:04	928	1968	060068	S2G01 no fire
17:04	929	1969	060068	S1G10 delta 3.1ms S2G01 delta 5.2ms
17:06	932	1972	060068	S1G10 delta -2.9ms
17:07	934	1974	060068	S2G06 no fire S2G02 signature corrupted
17:08	936	1976	060068	S2G04 no fire
17:10	939	1979	060068	S2G01 02 no fire
17:10	940	1980	060068	S1G10 delta 2.7ms S2G06 no fire
17:13	945	1985	060068	S2G06 no fire
17:14	947	1987	060068	S1G10 delta 2.3ms
17:14	948	1988	060068	S1G10 delta -3ms
17:15	949	1989	060068	S2G06 G07 no fire
17:15	950	1990	060068	S1G10 delta 2.3ms
17:17	954	1994	060068	S2G06 no fire
17:18	956	1996	060068	S2G06 no fire
17:20	958	1998	060068	S2G06 no fire
17:21	960	2000	060068	S2G04 no fire
17:21	961	2001	060068	S1G10 delta 2.5ms S2G06 no fire
17:22	962	2002	060068	S1G10 -3.0ms
17:23	964	2004	060068	S1G10 delta 2.6ms
17:24	967	2007	060068	S1G10 delta 2.5ms
17:26	970	2010	060068	S2G02 04 06 no fire
17:26	971	2011	060068	S1G10 delta2.3ms
17:27	972	2012	060068	S1G10 delta -2.8ms
17:29	977	2017	060068	S2G06 no fire
17:30	978	2018	060068	S2G06 07 no fire
17:32	981	2021	060068	S1G10 delta2.8ms
17:32	982	2022	060068	S1G10 delta -2.4ms S2G06 no fire
17:33	983	2023	060068	S1G10 delta -2.4ms
17:36	989	2029	060068	S2G0607 no fire
17:36	990	2030	060068	S2G01 no fire
17:38	993	2033	060068	S3g02 delta 2.9ms
17:38	994	2034	060068	S3g02 delta -2.8ms
17:39	995	2035	060068	S3G02 delta 2.8ms
17:40	996	2036	060068	S3G02 delta -2.7ms

17:41	998	2038	060068	S2G04 no fire
17:42	1001	2041	060068	S1G10 delta 2.7ms
17:43	1002	2042	060068	S1G10 delta -2.3ms
17:43	1003	2043	060068	S2G04 06 08 no fire
17:45	1006	2046	060068	S1G10 delta 2.1ms
17:48	1012	2052	060068	S2G06 07 no fire
17:51	1017	2057	060068	S2G01 02 04 06 07 no fire
17:55	1025	2065	060068	S1G10 delta 2.1ms
17:55	1026	2066	060068	S1G10 delta -3.0ms
17:57	1029	2069	060068	S2G6,7 No Fire
17:57	1030	2070	060068	S2G6 no fire
17:58	1031	2071	060068	S1G10 delta -2.1ms
17:59	1032	2072	060068	S1G10 delta -2.3ms
18:04	1042	2082	060068	S2G06 no fire
18:05	1043	2083	060068	S2G2,3,7 No Fire
18:06	1045	2085	060068	S2G1,2,3,4,6,7,8 No Fire
18:06	1046	2086	060068	S1G10 delta 2.8ms
18:07	1047	2087	060068	S1G10 delta -3.1ms
18:08	1049	2089	060068	S1G10 delta 3.0ms
18:08	1050	2090	060068	S1G10 delta -2.1ms
18:09	1052	2092	060068	S2G1,3,6,7 No Fire
18:11	1054	2094	060068	S2G1,2,4,6 No Fire
18:11	1055	2095	060068	S1G10 delta 3.4ms
18:13	1059	2099	060068	S2G1,2 No Fire
18:14	1060	2100	060068	S2G1,4,6,7,8,9 No Fire
18:14	1061	2101	060068	S2G1,7 No Fire
18:16	1064	2104	060068	S1G10 delta -2.3ms
18:16	1065	2105	060068	S1G10 delta 3.4ms
18:17	1066	2106	060068	S2G1 No Fire
18:21	1073	2113	060068	S2G1,2 No Fire
18:22	1075	2115	060068	S1G10 delta 2.7ms S2G1,4,8 No Fire
18:22	1076	2116	060068	S1G10 delta -3.1ms
18:23	1077	2117	060068	S2G1,3,4,6,8 No Fire
18:24	1078	2118	060068	S2G1,6 No Fire
18:25	1081	2121	060068	S1G10 delta -3.5ms S2G6,7 No Fire
18:28	1086	2126	060068	S2G1,2,3,8,9 No Fire
18:29	1088	2128	060068	S1G10 delta 2.2ms
18:31	1092	2132	060068	S2G1,2,3,7 No Fire
18:32	1094	2134	060068	S2G1,2,4,7 No Fire
18:33	1095	2135	060068	S2G6,7,8 No Fire
18:34	1098	2138	060068	S2G1,2,6,7,8,9 No Fire
18:35	1099	2139	060068	S2G1,6,7,8,9 No Fire
18:35	1100	2140	060068	S2G1,2,3,4,6,7,8 No Fire
18:36	1101	2141	060068	S1G10 delta 2.3ms
18:36	1102	2142	060068	S3G2 delta -2.1ms
18:37	1103	2143	060068	S2G2,3,4,6,7,8 No Fire
18:37	1104	2144	060068	S2G1,2,3,4 S4G2,10 No Fire
18:38	1105	2145	060068	S2G1 S4G2 No Fire S2G4 delta -2.7ms
18:38	1106	2146	060068	S2G1 No fire
18:39	1107	2147	060068	S2G6,7,8 No fire S2G1 delta 7.0ms
18:39	1108	2148	060068	S2G1 delta 3.9ms
18:40	1110	2150	060068	S2G1,6,7 No Fire
18:42	1112	2152	060068	S2 No Fire
18:42	1113	2153	060068	S2G2,3,4,6,10 No fire S3G2 delta -2.1ms

18:43	1115	2155	060068	S1G10 delta 2.7ms
18:44	1116	2156	060068	S2G8 No Fire
18:44	1117	2157	060068	S2G1 No Fire
18:45	1118	2158	060068	S2 No Fire
18:45	1119	2159	060068	S2 Power Cycle
18:46	1120	2160	060068	S2G3,4 No Fire
18:46	1121	2161	060068	S2G1,2,3,4,6 No Fire
18:47	1122	2162	060068	S2G1,8 No Fire
18:47	1123	2163	060068	S1G10 delta 2.7ms
18:48	1124	2164	060068	S1G10 delta -3.2ms
18:49	1127	2167	060068	S2G1 No Fire
18:50	1128	2168	060068	S2G6,7 No Fire
18:50	1129	2169	060068	S2G8 No Fire
18:52	1131	2171	060068	S2G8,10 No Fire
18:53	1133	2173	060068	S2G1,2,3 No Fire
18:54	1135	2175	060068	S2G10 No Fire
18:54	1136	2176	060068	S2g3 No fFire
18:55	1137	2177	060068	S2G1,4,6,7,8 No Fire
18:56	1139	2179	060068	S2G8,10 No fire
18:56	1140	2180	060068	S2G1,4,7,8
18:57	1141	2181	060068	S2G1 No fire
18:57	1142	2182	060068	S1G10 delta 3.2ms
18:58	1144	2184	060068	S1G10 delta -2.8ms
18:59	1146	2186	060068	S1G10 delta -2.3 S2G4 No Fire
19:00	1147	2187	060068	S1G10 delta -2.5ms S2G4,9 No Fire
19:00	1148	2188	060068	S1G10 -2.6ms S2G9 No Fire
19:01	1149	2189	060068	S2G3 No Fire
19:02	1151	2191	060068	S2G6 No fire
19:02	1152	2192	060068	S1G10 delta 2.6ms
19:04	1155	2195	060068	S1G10 delta 2.2ms
19:04	1156	2196	060068	S2G4 No Fire
19:05	1158	2198	060068	S2G1,8 No Fire
19:06	1159	2199	060068	S1G10 delta -2.4ms S2G3,9,10 No Fire
19:06	1160	2200	060068	S1G10 delta -3.1ms S2G4,9,10 No Fire
19:07	1161	2201	060068	S1G10 delta -3.1ms S2G3,9,10 No Fire
19:07	1162	2202	060068	S1G10 delta -3.1ms S2G4,7,8,10 No Fire
19:08	1163	2203	060068	S2G6 No Fire
19:08	1164	2204	060068	S2G1 No Fire
19:09	1165	2205	060068	S2G1,2,4 No Fire
19:09	1166	2206	060068	S2G,6,7,10 No Fire
19:10	1167	2207	060068	S2G1,4 No Fire
19:10	1168	2208	060068	S2G6 No Fire
19:11	1169	2209	060068	S2G7 No Fire
19:11	1170	2210	060068	S2G3 No Fire
19:12	1171	2211	060068	S2G1,2,8 No fire
19:12	1172	2212	060068	S2G6 No Fire
19:13	1173	2213	060068	S2G9 No Fire
19:13	1174	2214	060068	S2G4,6,7 No Fire
19:14	1175	2215	060068	S2G1,6 No Fire
19:14	1176	2216	060068	S2G7 No fire
19:14	1177	2217	060068	S2G1 No Fire
19:15	1178	2218	060068	S2G1,2,3, No fire
19:15	1179	2219	060068	S2G3,4,6 No fire
19:16	1180	2220	060068	S2G1,9 No fire

	1181	2221	060068	s2g2 7 10 no fire
	1182	2222	060068	S1G10 delta 2.5ms S2G6 No Fire
	1183	2223	060068	S2G01,6 No Fire
	1184	2224	060068	S2G1,7,8,9,10 No fire
	1185	2225	060068	S2G6,9,10 No Fire
	1186	2226	060068	S2G1,4,7,8 No Fore
	1187	2227	060068	S2G1,2,,6,7,10 No Fire
	1188	2228	060068	S2G1,4,5,6,7,8,9,10 No Fire
	1189	2229	060068	S2G1,2,4,6,7,8,9 No Fire
	1190	2230	060068	S2G1,2,3,4,5,6,7,8,9,10 No Fire
	1191	2231	060068	S2G1,2,3,4,6,7,8,9,10 No Fire
	1192	2232	060068	S2G1,2,3,4,6,7,8,9,10 No Fire
	1193	2233	060068	S2G1,2,3,4,6,7,8,9,10 No Fire
	1194	2234	060068	S2G1,2,6,7,8,9 No Fire
	1195	2235	060068	S2G2,4 No Fire
	1196	2236	060068	S2G1,2,4 NO Fire
	1197	2237	060068	S2G9,10 No Fire
	1198	2238	060068	S2G4 No Fire
	1199	2239	060068	S2G6 No fire
	1200	2240	060068	S2G6 No fire
	1201	2241	060068	S2G1,2 No Fire
	1202	2242	060068	S2G6,8 No Fire
19:28	1203	2243	060068	S2G9,10 No Fire
	1204	2244	060068	S2G10 No Fire
	1205	2245	060068	s2g07 no fire
	1207	2247	060068	S2G6 No Fire
19:31	1209	2249	060068	S2G3,9,10 No Fire
19:31	1210	2250	060068	S2G1,2,3,4,6,7 No Fire
19:32	1211	2251	060068	S2G3,4,6,9,10 No Fire
19:32	1212	2252	060068	S2G1,2,3,4,8 No Fire
19:33	1213	2253	060068	S2G2,4,10 No Fire
19:34	1214	2254	060068	S2G1,8,9,10 No Fire
19:35	1216	2256	060068	S2G3 No Fire
19:35	1217	2257	060068	S1G10 delta 2.1ms
19:36	1219	2259	060068	S1G10 delta -2.8ms S2G1,2,3 No Fire
19:36	1220	2260	060068	S2G6 No Fire
19:37	1221	2261	060068	S2G6 No Fire
19:37	1223	2263	060068	S2G4 No Fire
19:38	1225	2265	060068	S2G9,10 No Fire
19:39	1226	2266	060068	S2G6 No Fire
19:40	1228	2268	060068	S2G1,2,6,9,10 No Fire
19:40	1229	2269	060068	S2G1,2,3,8 No Fire
19:41	1230	2270	060068	S2G1,8 No Fire
19:42	1231	2271	060068	S2G1,2,3,4,5,8,9,10 No Fire
19:42	1232	2272	060068	S2G4,9 No Fire
19:43	1234	2274	060068	S2G1,2,6,9,10 No Fire
19:43	1235	2275	060068	S2G17,8,9,10 No Fire
19:44	1236	2276	060068	S2G1,4,9,10 No Fire
19:45	1240	2280	060068	S2G2,3,4,8 No Fire
19:46	1241	2281	060068	S2G9 No Fire
19:46	1242	2282	060068	S2G2,3,4,9 No Fire
19:47	1243	2283	060068	S2G1,2,10 No Fire
19:47	1244	2284	060068	S2G1,4 No Fire
19:48	1245	2285	060068	S2G1,10 No fire

19:48	1246	2286	060068	S2G10 No fire
19:49	1247	2287	060068	S2G1,3,4,9 No fire
19:49	1248	2288	060068	S2G10 No Fire
19:50	1249	2289	060068	S2G3,4,8,9 No Fire
19:50	1250	2290	060068	S2G1,3,9 No Fire
19:51	1251	2291	060068	S2G9,10 No Fire
19:51	1252	2292	060068	S2G7 No Fire
19:52	1253	2293	060068	S2G1,2,8 No Fire
19:53	1256	2296	060068	S2G4,10 No Fire
19:53	1257	2297	060068	S2G1,2,3,4, No fire
19:54	1258	2298	060068	S2G1,4 No Fire
19:55	1260	2300	060068	S2G4,10 No Fire
19:55	1261	2301	060068	S2G10 No Fire
19:56	1263	2303	060068	S2G4,6,9,10 No Fire
19:57	1264	2304	060068	S2G1,8 No Fire
19:57	1265	2305	060068	S2G10 No Fire
19:58	1266	2306	060068	S2G1,3 No Fire
19:58	1267	2307	060068	S2G1,3,4,9,10 No Fire
19:59	1268	2308	060068	S2G1,3,7,9,10 No Fire
19:59	1269	2309	060068	S2G4,9 No Fire
20:00	1270	2310	060068	S2G1,3,7, No Fire
20:00	1271	2311	060068	S2G1,2,3,8,10 No Fire
20:01	1272	2312	060068	S2G01,03,04,07 No fire
20:01	1273	2313	060068	S2G04,10 No fire
20:01	1274	2314	060068	S2G01,02,10 No fire
20:02	1275	2315	060068	S2G01,03,06,08,09 No fire
20:02	1276	2316	060068	S2G01,02,07,10 No fire
20:03	1278	2318	060068	S2G01,04,10 No fire
20:04	1280	2320	060068	S2G01,04 No fire
20:04	1281	2321	060068	S2G01,07 No fire
20:05	1282	2322	060068	S2G01 No fire
20:05	1283	2323	060068	S2G01,04,08,09 No fire
20:06	1284	2324	060068	S2G01,07 No fire
20:06	1285	2325	060068	S2G03,09 No fire
20:07	1286	2326	060068	S2G01,09 No fire
20:07	1287	2327	060068	S2G03,04,08,09 No fire
20:07	1288	2328	060068	S2G01,02,03,08 No fire
20:08	1289	2329	060068	S2G01,03,10 No fire
20:09	1291	2331	060068	S2G02,03,04,07,10 No fire
20:09	1292	2332	060068	S2G09 No fire
20:10	1293	2333	060068	S2G04 No fire
20:10	1294	2334	060068	S2G02,10 No fire
20:10	1295	2335	060068	S2G04,09 No fire
20:11	1297	2337	060068	S2G01,03 No fire
20:12	1298	2338	060068	S2G01,02 No fire
20:12	1299	2339	060068	S2G01,02,09,10 No fire
20:13	1301	2341	060068	S2G01,02 No fire
20:13	1302	2342	060068	S2G01,02,03,08 No fire
20:14	1303	2343	060068	S2G02,08,09,10 No fire
20:14	1304	2344	060068	S2G01,02,03,04,08,09,10 No fire
20:15	1305	2345	060068	S2G10 No Fire
20:15	1306	2346	060068	S2G01,02,03 NO FIRE
20:16	1307	2347	060068	S2G01,03,08 No fire
20:16	1308	2348	060068	S2G01,02,03,08 No fire

20:16	1309	2349	060068	S2G01,02,03,04,10 No fire
20:17	1310	2350	060068	S2G03,10 No fire
20:17	1311	2351	060068	S2G02 NO FIRE
20:18	1312	2352	060068	S2G01,02,03,04,09 No fire
20:18	1313	2353	060069	change reel 060068 to 060069
20:18	1313	2353	060069	S2G02,04,10 No fire
20:19	1314	2354	060069	S2G01,02,04,06,08,09,10 No fire
20:19	1316	2356	060069	S2G01,02,03,04,06,07,08,09,10 No fire
20:20	1317	2357	060069	S2G01,04,08 No fire
20:20	1318	2358	060069	S2G01,08,09 No fire
20:21	1319	2359	060069	S2G01,02,03,06,07,08 No fire
20:21	1320	2360	060069	S2G01,04 No fire
20:22	1322	2362	060069	S2G07,08 No fire
20:22	1323	2363	060069	S2G01,02 No fire
20:23	1324	2364	060069	S2G01,03,06,08,09 No fire
20:23	1325	2365	060069	S2G01,06,07,08,09,10 No fire
20:24	1326	2366	060069	S2G01,04 No fire
20:24	1327	2367	060069	S2G01,03,04,06,10 No fire
20:24	1328	2368	060069	S2G01,02,06,07,08 No fire
20:25	1330	2370	060069	S2G09 No fire
20:26	1331	2371	060069	S2G01,03,04 No fire
20:26	1332	2372	060069	S2G03,06 No fire
20:27	1333	2373	060069	S2G06 No fire
20:27	1334	2374	060069	S2G01,02 No fire
20:27	1335	2375	060069	S2G06,08 No fire
20:28	1336	2376	060069	S2G06,08,09 No fire
20:28	1337	2377	060069	S2G01,08 No fire
20:30	1340	2380	060069	S2G01,03,06,08,10 No fire
20:30	1341	2381	060069	S2G01,04,09 No fire
20:30	1342	2382	060069	S2G01,04,07,10 No fire
20:31	1343	2383	060069	S2G01,02,03,04,08,09,10 No fire
20:31	1344	2384	060069	S2G01,02,06,07,08 No fire
20:32	1345	2385	060069	S2G01,02,06 No fire
20:32	1346	2386	060069	S2G01 No fire
20:32	1347	2387	060069	S2G01 No fire
20:33	1349	2389	060069	S2G01,02,03,04,06,08,09 No fire
20:34	1350	2390	060069	S2G01,07,08,09 No fire
20:34	1351	2391	060069	S2G01,03,08 No fire
20:34	1352	2392	060069	S2G02,06 No fire
20:35	1353	2393	060069	S2G01,03,08,09 No fire
20:35	1354	2394	060069	S2G03 no fire
20:36	1355	2395	060069	S2G01,03,08,09,10 No fire
20:36	1356	2396	060069	S2G01,02,03,04,08,09 No fire
20:37	1357	2397	060069	S2G01,02,03,04,07,08,10 No fire
20:37	1358	2398	060069	S2G02,06,07 No fire
20:37	1359	2399	060069	S2G04 No fire
20:38	1361	2401	060069	S2G02,04,07,09,10 No fire
20:39	1362	2402	060069	S2G01,02,03,04,09 No fire
20:39	1363	2403	060069	S2G01,03,08,09 No fire
20:39	1364	2404	060069	S2G08 No fire
20:40	1365	2405	060069	S2G02 NO FIRE
20:41	1369	2409	060069	S2G03 No fire
20:42	1370	2410	060069	S2G01,02,06,07 No fire
20:43	1372	2412	060069	S2G02 No fire

20:43	1373	2413	060069	S2G01,02,06,07 No fire
20:44	1375	2415	060069	S2G04,07,10 No fire
20:44	1376	2416	060069	S2G01 No fire
20:45	1377	2417	060069	S2G01,02,03,04,06,10 No fire
20:45	1378	2418	060069	S2G01,02,08 No fire
20:45	1379	2419	060069	S2G01,02,08,09,10 No fire
20:46	1380	2420	060069	S2G02,03 No fire
20:47	1382	2422	060069	S2G03 No fire
20:47	1284	2324	060069	S2G10 No Fire
20:48	1285	2325	060069	S1G10 delta 2.1ms
20:49	1287	2327	060069	S2G01,02 No fire
20:49	1389	2429	060069	S2G07 No fire
20:50	1390	2430	060069	S2G04 No fre
20:51	1393	2433	060069	S2G01,02,08 No fire
20:54	1399	2439	060069	S2G04,08 No fire
20:54	1400	2440	060069	S2G10 No Fire
20:55	1403	2443	060069	S2G03 No fire
20:56	1405	2445	060069	S2G08 No fire
20:57	1407	2447	060069	S2G08 No fire
20:57	1408	2448	060069	S2G08,09 No fire
20:58	1409	2449	060069	S2G07 No fire
20:58	1410	2450	060069	S2G06 No fure
20:59	1411	2451	060069	S2G04,09 No fire
20:59	1412	2452	060069	S2G09 No fire
21:00	1414	2454	060069	S2G04,06,07,08,09 No fire
21:01	1415	2455	060069	S2G08 No fire
21:01	1416	2456	060069	S2G02 No fire
21:01	1417	2457	060069	S2G03 No fire
21:02	1418	2458	060069	S2G06 No fire
21:03	1420	2460	060069	S2 No fire
21:03	1421	2461	060069	S2G01,08 No fire
21:03	1422	2462	060069	S2G03,04,10 No fire
21:04	1423	2463	060069	S2G03,10 No fire
21:04	1424	2464	060069	S2G01,02,04,08,09 No fire
21:05	1425	2465	060069	S2G01,02,03,07,09,10 No fire
21:05	1426	2466	060069	S2G01,03,04,08,09,10 No fire
21:05	1427	2467	060069	S2G02,07,10 No fire
21:06	1428	2468	060069	S2G02,03 No fire
21:06	1429	2469	060069	S2G01,02,03,04,06,09 No fire
21:07	1430	2470	060069	S2G01,02,03,04,07 No fire
21:07	1431	2471	060069	S2G03,06,07 No fire
21:07	1432	2472	060069	S2G01,02,03,06,07,08,09 No fire
21:08	1433	2473	060069	S2G01,02,03,04,06,07 No fire
21:08	1434	2474	060069	S2 No fire
21:09	1435	2475	060069	S2G01,02,03,06,07,08 No fire
21:09	1436	2476	060069	S2G03,04,10 No fire
21:09	1437	2477	060069	S2G01,03 No fire
21:10	1438	2478	060069	S2G01,02,03 No fire
21:10	1439	2479	060069	S2G04,06,10 No fire
21:11	1440	2480	060069	S2G01,04,06,08,10 No fire
21:11	1441	2481	060069	S2G01,02,03,04,07,08,09,10 No fire
21:12	1442	2482	060069	S2G04,06,09 No fire
21:12	1444	2484	060069	S2G04,06,10 No fire
21:13	1445	2485	060069	S2G02,03,09 No fire

21:13	1446	2486	060069	S2G01 No fire
21:14	1447	2487	060069	S2G01,02,10 No fire
21:14	1448	2488	060069	S2G04,06 No fire
21:15	1450	2490	060069	S2G10 No fire
21:15	1451	2491	060069	S2G01,04,06 No fire
21:16	1452	2492	060069	S2G10 No fire
21:16	1453	2493	060069	S2G01,02,10 No fire
21:16	1454	2494	060069	S2G10 No Fire
21:17	1455	2495	060069	S2 No fire
21:17	1456	2496	060069	S2G01,02,03,04 No fire
21:18	1457	2497	060069	S2G02,03,04,06 No fire
21:19	1459	2499	060069	S2G06,10 No fire
21:19	1460	2500	060069	S2G01 No fire
21:19	1461	2501	060069	S2G01,02,07,08,10 No fire
21:20	1463	2503	060069	S2G04 No fire
21:21	1464	2504	060069	S2G03,04 No fire
21:21	1465	2505	060069	S2G01,02,03,07,08 No fire
21:22	1467	2507	060069	S2G01,02,03,04,08,10 No fire
21:22	1468	2508	060069	S2G01 No fire
21:23	1469	2509	060069	S2G01,02,03,04,10 No fire; S3G02 Delta 2.7ms
21:24	1471	2511	060069	S2G03,04 No fire
21:24	1472	2512	060069	S2G02 No fire
21:24	1473	2513	060069	S2G01,02 No fire
21:25	1474	2514	060069	S2 No fire
21:25	1475	2515	060069	S2 No fire
21:26	1476	2516	060069	S2G03,04,09,10 No fire
21:27	1478	2518	060069	S2G01,04 No fire
21:28	1481	2521	060069	S2G06 No fire
21:28	1482	2522	060069	S2G06,07 No fire
21:29	1483	2523	060069	S2G01,04 No fire
21:29	1484	2524	060069	S2G01,04 No fire
21:30	1485	2525	060069	S2G01,03,08 No fire
21:30	1486	2526	060069	S2G01,08 No fire
21:30	1487	2527	060069	S2G01,02,03,04,08,09 No fire
21:31	1488	2528	060069	S2 No fire
21:31	1489	2529	060069	S2G01,02,03,07,08 No fire
21:32	1490	2530	060069	S2G01,08 No fire
21:32	1491	2531	060069	S2G01,10 No fire
21:33	1492	2532	060069	S2G04,06 No fire
21:33	1493	2533	060069	S2G01,02,03,04 No fire
21:33	1494	2534	060069	S2G01,04 No fire
21:34	1495	2535	060069	S2G01 No fire
21:34	1496	2536	060069	S2G01,02,08 No fire
21:35	1497	2537	060069	S2G01,07 No fire
21:35	1498	2538	060069	S2G01,04,08 No fire
21:36	1499	2539	060069	S2G01,02,03,07,08,09 No fire
21:36	1500	2540	060069	S2G01,02,03,04,07,08 No fire

21:36	1501	2541	060069	S2G07 No fire
21:37	1502	2542	060069	S2G03,06 No fire
21:37	1503	2543	060069	S2G01,02,07 No fire
21:38	1504	2544	060069	S2G06,09,10 No fire
21:38	1505	2545	060069	S2G01,03,04,07,08,09 No fire
21:39	1506	2546	060069	S2G01,02,03,04,06,08,09 No fire
21:39	1508	2548	060069	S2G01,04,10 No fire
21:40	1509	2549	060069	S2G01,02,03,04,06,08 No fire
21:40	1510	2550	060069	S2G01,02,10 No fire
21:41	1511	2551	060069	S2G01,06,08,09,10 No fire
21:41	1512	2552	060069	S2G01,02,03,06 No fire
21:42	1513	2553	060069	S2G01,02,03,04,08,09,10 No fire
21:42	1514	2554	060069	S2G01,02,03,04,05,06,08,09,10 No fire
21:42	1515	2555	060069	S2 Common Error
21:43	1516	2556	060069	S2 Common Error
21:43	1517	2557	060069	S2 Common Error
21:44	1518	2558	060069	S2 Common Error
21:44	1519	2559	060069	S2G01,02,03,04,06,07,08,09,10 No fire
21:45	1520	2560	060069	S2G01,02,03,04,06,07,08,09 No fire
21:45	1521	2561	060069	S2G01,02,03,04,06,07,08 No fire
21:46	1522	2562	060069	S2G01,02,09 No fire
21:46	1523	2563	060069	S2G01,04 No fire
21:46	1524	2564	060069	S2G01,02,03,06,07,08 No fire
21:47	1525	2565	060069	S2G01,02,03,04,07,08 No fire
21:47	1526	2566	060069	S1G10 Delta 3.8 ms; S2G01,03,04,06,07,08,09 No fire
21:48	1527	2567	060069	S1G10 Delta -2.6 ms; S2G01,07,08 No fire
21:48	1528	2568	060069	S2G01,03,04,09,10 No fire
21:49	1529	2569	060069	S2G02,03,04,08,09 No fire
21:49	1530	2570	060069	S1G10 Delta 2.9 ms; S2G01,03,04 No fire
21:49	1531	2571	060069	S2G01,03,04,07,09 No fire
21:50	1532	2572	060069	S1G10 Delta 2.5 ms; S2G01,02,03,04,09 No fire
21:50	1533	2573	060069	S1G10 Delta -2.6 ms; S2G01,02,03,04,08,09,10 No fire
21:51	1534	2574	060069	S2G03,06,07,08,09 No fire
21:51	1535	2575	060069	S2G01 No fire
21:52	1536	2576	060069	S2G01,02,08 No fire
21:52	1537	2577	060069	S2G01,07 No fire
21:53	1538	2578	060069	S1G10 Delta 4.4 ms; S2G02,04,06,07,10 No fire
21:53	1539	2579	060069	S1G10 Delta -3.4 ms; S2G01,03,06 No fire
21:53	1540	2580	060069	S2G01,02,03,04,07 No fire
21:54	1541	2581	060069	S2G01,02,03,06,08 No fire
21:54	1542	2582	060069	S2G01,02,03,06,08,09,10 No fire
21:55	1543	2583	060069	S2G01,02,03,04,06,08 No fire
21:55	1544	2584	060069	S2G02,03,04,07,09,10 No fire
21:56	1545	2585	060069	S2 No fire
21:56	1546	2586	060069	S2G01,02,03,04,10 No fire
21:56	1547	2587	060069	S2 No fire
21:57	1548	2588	060069	S2G01,02,03,06,08,10 No fire
21:57	1549	2589	060069	S1G05 No fire; S3G05 Delta 4.2 ms; S2 Secured
21:58	1550	2590	060069	S1G05 Delta 6.5 ms; S3G05 Delta -2.7 ms
21:58	1551	2591	060069	S1G05 Delta -4.6 ms
22:26	1618	2658	060069	S1G10 DELTA 4.3 ms
22:27	1619	2659	060069	S1G10 Delta -3.4 ms
22:54	1690	2730	060069	22:54 EOL LAT 023 20.25985 N LONG 121 59.98413 E SP2730
			060069	

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #	060070	060073	FGSP	3190
SP #	3190	5635	LGSP	5635

Line	MGL0906_026A
Sequence	038
Direction	0 deg

Streamer Parameters				
	1	2	3	4
Length			6000	
Auxiliaries				
Shotpoint Interval:			50	
Offset CS - CFG			161	
Group Interval:			12.5	
Number of channels			468	
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	15s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/30/09	05/31/09
Time UTC	12:14	00:14
Volume (cu in.)	6600	6560
Streamer Depth (m)	9	9
Wind (kts)	4	12
Sea State (ft)	2-4 ft	5-7
Water Depth (m)	4255	2673

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments
12:14 SOL MGL0906_026A_S038 SP 3190 Lat 23D09.3505 N Lon122d 00.0033 E
15:50 spared S2G4 ACTIVE S2G05 due to excessiv failures
16:10 Spared S2G05 AND S2G05 ACTIVE S4G05 errors abated SP4010
16:33 spared S2G03 no active replacement new volume 6560 SP4040
15:49 reel change 060070-060071 SP 3889
1906: reel change 060071-060072 SP 4589
2056: bird 5,6 out of spec10.5 meters sp4970
2116: birds bac in spec SP5040
21:48: bird 17 out of spec at 7.7 meters
21:54:bird 17 back in spec SP5168
22:29reel change 060072-060073 SP 5289
2357: bird 16 out of spec 10.1 meters possible fishing gear

Line Status:
0000: bird 16 back in spec SP 5597
0014:EOL LAT 024 15.52961 N LONG 121 59.90107 E
LAST REEL 060073 LAST FILE 2445

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Initiation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
12:14	1	3190	060070	SOL MGL09_06_026A_Seq 038 Lat 23d 09.3505 N Lon 122d 00.0033 E
12:16	8	3197	060070	S2G9 no fire
12:16	10	3199	060070	S2G8 no fire
12:17	12	3201	060070	S3G1, Auto fire @ 160 MSS4G1 S4G1 no fire
12:17	13	3202	060070	S2G10 No fire
12:18	17	3206	060070	S2G2 no fire
12:19	18	3207	060070	S3G1 no fire
12:19	19	3208	060070	S2G8 no fire
12:20	21	3210	060070	S3G1Auto fire 291 ms
12:20	23	3212	060070	S4G1 no fire
12:21	25	3214	060070	S3G1 auto fire at 167.2 ms,S4G1 no fire
12:22	27	3216	060070	S3G1 auto fire at 163.2 ms
12:22	28	3217	060070	S2G6,S3G1 auto fire
12:22	29	3218	060070	S2G8 no fire
12:22	30	3219	060070	S2G8,G10 no fire
12:24	34	3223	060070	S2G10 No fire
12:24	35	3224	060070	S3G1 auto fire
12:24	36	3225	060070	S3G1 auto fire
12:25	37	3226	060070	S3G1 auto fire
12:25	38	3227	060070	S3G1 auto fire
12:26	41	3230	060070	S2G9 no fire,S3G1 auto fire
12:27	44	3233	060070	S2G8 no fire
12:28	46	3235	060070	S4G1 no fire
12:28	47	3236	060070	S2G2 no fire
12:29	49	3238	060070	S2G8 no fire
12:30	53	3242	060070	S2G3 no fire
12:30	54	3243	060070	S4G1 no fire

12:33	62	3251	060070	S2G8,G10 no fire
12:33	63	3252	060070	S2G10 No fire
12:34	65	3254	060070	S2G8,G9,G10 no fire
12:35	68	3257	060070	S2G8,G9 no fire
12:35	69	3258	060070	S2G8,G9 ,S4G1 no fire
12:37	73	3262	060070	S2G8 no fire
12:37	75	3264	060070	S2G8,G9,G10 no fire
12:38	76	3265	060070	S2G10 No fire
12:38	77	3266	060070	S2G2 no fire
12:39	78	3267	060070	S2G4,G8 no fire
12:39	80	3269	060070	S2G2 no fire
12:40	83	3272	060070	S3G1 auto fire
12:42	89	3278	060070	S3G5 auto fire
12:44	94	3283	060070	S3G5 auto fire
12:44	95	3284	060070	S3G1 auto fire
12:45	97	3286	060070	S3G5 auto fire
12:45	98	3287	060070	S4G1 no fire
12:46	100	3289	060070	S2G9 no fire
12:48	106	3295	060070	S2G8,G9 no fire
12:49	109	3298	060070	S3G1 auto fire
12:52	117	3306	060070	S3G2 delta timing -2.1 ms
12:53	120	3309	060070	S3G1 auto fire
12:54	122	3311	060070	S2G10 No fire
12:55	125	3314	060070	S2G3,G8 no fire
12:58	133	3322	060070	S3G1 auto fire
12:58	134	3323	060070	S4G1 no fire
13:02	145	3334	060070	S4G1 no fire
13:04	150	3339	060070	S2G2 no fire
13:06	155	3344	060070	S1G10 auto fire
13:06	156	3345	060070	S2G8 no fire
13:07	159	3348	060070	S2G10 No fire
13:08	160	3349	060070	S3G1 auto fire
13:10	166	3355	060070	S2G9 no fire
13:11	171	3360	060070	S3G1 auto fire
13:15	181	3370	060070	S2G4,G9 no fire
13:16	184	3373	060070	S2G8 delta timing -6.8 ms
13:16	185	3374	060070	S2G8 delta timing 5.3 ms
13:17	188	3377	060070	S2G9,S4gG01 no fire
13:19	193	3382	060070	S2G4 no fire
13:20	197	3386	060070	S2G4 no fire
13:23	205	3394	060070	S3G1 auto fire
13:23	206	3395	060070	S3G1 auto fire
13:24	209	3398	060070	S4G1 no fire
13:24	210	3399	060070	S3G1 auto fire
13:25	212	3401	060070	S4G1 no fire
13:27	219	3408	060070	S3G1 auto fire
13:28	222	3411	060070	S4G1 no fire
13:29	223	3412	060070	S3G1 auto fire
13:30	226	3415	060070	S2G3,G4 no fire
13:30	227	3416	060070	S2G2 no fire

13:31	230	3419	060070	S3G2 delta timing -2.2 ms
13:32	232	3421	060070	S3G2 delta timing 2.1 ms
13:35	241	3430	060070	S2G9 no fire
13:35	242	3431	060070	S2G3,G4 no fire
13:37	248	3437	060070	S3G1 auto fire ,S4G1 no fire
13:38	250	3439	060070	S2G3,G4 no fire
13:39	254	3443	060070	S2G4 no fire
13:40	258	3447	060070	S2G4 no fire
13:41	259	3448	060070	S4G1 no fire
13:41	260	3449	060070	S2G3,G9,G10 no fire
13:42	263	3452	060070	S2G3,G4,S4G1 no fire
13:42	264	3453	060070	S3G1 auto fire
13:44	269	3458	060070	S3G2 delta timing -2.1 ms
13:45	274	3463	060070	S3G1 auto fire
13:46	276	3465	060070	S2G4 no fire
13:47	279	3468	060070	S2G4,G9 no fire
13:47	281	3470	060070	S4G1 no fire
13:49	285	3474	060070	S2G3 no fire
13:50	290	3479	060070	S2G8 no fire
13:51	292	3481	060070	S2G3 no fire
13:51	294	3483	060070	S2G4 no fire
13:52	296	3485	060070	S2G9 no fire
13:52	297	3486	060070	S3G1 auto fire
13:53	299	3488	060070	S2G2 no fire
13:54	303	3492	060070	S2G4 no fire
13:55	304	3493	060070	S4G1 no fire
13:55	306	3495	060070	S2G8 no fire
13:56	309	3498	060070	S3G1 auto fire ,S4G1 no fire
13:58	314	3503	060070	S2G3,G4 no fire
13:58	316	3505	060070	S2G4 no fire
13:59	317	3506	060070	S4G1 no fire
13:59	318	3507	060070	S3G1 auto fire ,S2G4 no fire
13:59	320	3509	060070	S3G1 auto fire
14:00	321	3510	060070	S2G3,G4 no fire
14:01	327	3516	060070	S3G1 auto fire
14:02	328	3517	060070	S2G8 no fire
14:03	331	3520	060070	S2G4 no fire
14:03	332	3521	060070	S2G3,G4 no fire
14:05	340	3529	060070	S2G4 no fire
14:06	341	3530	060070	S3G1 auto fire
14:06	342	3531	060070	S2G4 no fire
14:06	344	3533	060070	S2G4 no fire
14:07	345	3534	060070	S4G1 no fire
14:09	352	3541	060070	S3G1 auto fire
14:10	356	3545	060070	S2G4,S4G1 no fire
14:10	357	3546	060070	S3G1 auto fire
14:11	359	3548	060070	S3G1 auto fire
14:12	363	3552	060070	S3G1 auto fire,S2G4 no fire

14:13	366	3555	060070	S2G4,S4G1 no fire
14:17	381	3570	060070	S2G4,G3 no fire
14:20	393	3582	060070	S3G1 auto fire,S1G10 delta timing 2.1 ms
14:22	399	3588	060070	S3G1 auto fire
14:23	401	3590	060070	S3G1 auto fire
14:23	402	3591	060070	S2G4,G3,G2 no fire
14:24	406	3595	060070	S3G1 auto fire
14:25	410	3599	060070	S4G1 no fire
14:26	413	3602	060070	S2G4,G3 no fire
14:29	422	3611	060070	S2G8 no fire
14:30	425	3614	060070	S3G1 auto fire
14:31	429	3618	060070	S2G4 no fire
14:31	430	3619	060070	S2G4 no fire
14:32	434	3623	060070	S2G3 no fire,S3G2 delta timing -2.1 ms
14:33	335	3524	060070	S2G3 no fire
14:33	336	3525	060070	S3G1 auto fire
14:34	339	3528	060070	S2G4,G3 no fire
14:35	344	3533	060070	S2G4,G3 no fire
14:36	448	3637	060070	S2G4,G3 no fire
14:37	452	3641	060070	S4G1 no fire
14:39	457	3646	060070	S2G4 no fire
14:39	459	3648	060070	S2G4,G3 no fire
14:39	460	3649	060070	S3G1 auto fire
14:43	471	3660	060070	S2G4 no fire
14:43	473	3662	060070	S2G4,G3 no fire
14:44	475	3664	060070	S3G1 auto fire
14:44	477	3666	060070	S2G4 no fire,S3G1 auto fire
14:45	480	3669	060070	S3G1 auto fire
14:46	481	3670	060070	S3G1 auto fire
14:46	483	3672	060070	S2G4 no fire
14:46	484	3673	060070	S2G4 no fire
14:48	489	3678	060070	S2G8 no fire
14:49	492	3681	060070	S3G1 auto fire,S2G4,G3 no fire
14:49	494	3683	060070	S3G1 auto fire
14:50	495	3684	060070	S2G9 no fire
14:51	498	3687	060070	S3G1 auto fire
14:51	501	3690	060070	S3G1 auto fire
14:53	507	3696	060070	S2G4 no fire
14:54	511	3700	060070	S3G1 auto fire
14:56	518	3707	060070	S2G4,G3 no fire
14:57	520	3709	060070	S2G4 no fire
14:57	521	3710	060070	S4G1 no fire
14:58	525	3714	060070	S2G4,G3 no fire
14:59	526	3715	060070	S2G3 no fire
14:59	528	3717	060070	S3G1 auto fire
15:00	529	3718	060070	S3G1 auto fire
15:00	530	3719	060070	S2G4,G3 no fire
15:03	539	3728	060070	S4G1 no fire
15:03	542	3731	060070	S3G1 auto fire
15:04	543	3732	060070	S2G4 no fire

15:04	544	3733	060070	S2G4,G3 no fire,S3G1 auto fire
15:05	546	3735	060070	S2G4,G3,G8 no fire
15:06	549	3738	060070	S2G8 no fire
15:06	550	3739	060070	S2G4,G3,G10 no fire
15:06	551	3740	060070	S1G10 delta timing -2.1 ms,S2G3 no fire,S3G1 auto fire
15:08	556	3745	060070	S2G2 no fire
15:08	557	3746	060070	S2G10 no fire
15:08	558	3747	060070	S2G8,G10 no fire
15:09	560	3749	060070	S2G3,G8,G10 no fire
15:09	561	3750	060070	S3G1 auto fire
15:09	562	3751	060070	S2G8 no fire
15:10	563	3752	060070	S2G4 no fire
15:10	565	3754	060070	S2G4,G3 no fire,S3G1 auto fire
15:10	566	3755	060070	S2G3 no fire
15:12	569	3758	060070	S2G2 no fire
15:12	570	3759	060070	S3G1 auto fire
15:12	571	3760	060070	S3G1 auto fire
15:12	572	3761	060070	S2G8 no fire
15:13	575	3764	060070	S3G1 auto fire
15:14	577	3766	060070	S3G1 auto fire
15:14	580	3769	060070	S3G1 auto fire
15:15	581	3770	060070	S3G1 auto fire
15:15	583	3772	060070	S3G1 auto fire
15:16	585	3774	060070	S2G2,G3,G4 no fire
15:16	586	3775	060070	S3G1 auto fire
15:17	588	3777	060070	S2G9 no fire
15:17	590	3779	060070	S2G2,G3,G4 no fire
15:18	592	3781	060070	S4G1 no fire
15:19	594	3783	060070	S2G8,G9 no fire
15:19	595	3784	060070	S2G3 no fire
15:19	596	3785	060070	S4G1 no fire
15:19	597	3786	060070	S2G8 no fire
15:20	599	3788	060070	S2G3,S4G1 no fire
15:21	602	3791	060070	S2G3,G4 no fire
15:21	603	3792	060070	S4G1 no fire
15:22	607	3796	060070	S2G4 no fire
15:23	609	3798	060070	S2G3,G4 no fire
15:23	611	3800	060070	S2G4 no fire
15:24	612	3801	060070	S2G9 no fire
15:24	613	3802	060070	S2G4 no fire
15:27	623	3812	060070	S2G2,G4 no fire,S3G2 delta timing 2.4 ms
15:27	624	3813	060070	S2G4 no fire
15:28	626	3815	060070	S3G1 auto fire,S2G4 no fire
15:28	627	3816	060070	S2G4 no fire
15:29	629	3818	060070	S2G3,G4 no fire
15:29	630	3819	060070	S2G3,G9 no fire
15:30	633	3822	060070	S2G3,G4,G8 no fire
15:30	634	3823	060070	S2G3,G4,G8 no fire
15:30	635	3824	060070	S2G3,G4,G9 no fire
15:31	636	3825	060070	S2G4 no fire
15:31	637	3826	060070	S2G4 no fire

15:32	639	3828	060070	S2G4,G9,G10 no fire
15:32	640	3829	060070	S2G3,G4 no fire
15:35	650	3839	060070	power cycle String 2
15:36	644	3833	060070	S2G4 no fire
15:37	645	3834	060070	S2G3,G4 no fire
15:39	664	3853	060070	S2G5 no fire
15:40	667	3856	060070	S2G5 no fire
15:40	668	3857	060070	S2G5 no fire
15:40	669	3858	060070	S3G1 auto fire,S2G5 no fire
15:41	670	3859	060070	S2G5,G8 no fire
15:41	671	3860	060070	S3G1 auto fire
15:41	672	3861	060070	S2G5 no fire
15:43	678	3867	060070	S3G1 auto fire
15:44	681	3870	060070	S4G1 no fire
15:45	683	3872	060070	S2G5 no fire
15:45	686	3875	060070	S3G1 auto fire
15:46	687	3876	060070	S2G5 no fire
15:46	689	3878	060070	S3G1 auto fire
15:47	690	3879	060070	S4G1 no fire
15:48	694	3883	060070	S2G10,G8 no fire
15:48	696	3885	060070	S2G9,G8,G5 no fire
15:48	697	3886	060070	S3G1 auto fire
15:49	698	3887	060070	S2G5 no fire,S3G1 auto fire
15:49	700	3889	060071	S2G5 no fire,reel change 70 to 71
15:50	703	3892	060071	S2G5 no fire
15:51	705	3894	060071	S2G9,G8,G5 no fire
15:51	706	3895	060071	S2G5 no fire
15:52	708	3897	060071	S2G2,G5 no fire
15:52	709	3898	060071	S2G3,G5 no fire,S3G1 auto fire
15:52	710	3899	060071	S2G8,G5 no fire,S3G2 delta timing -2.1 ms
15:53	711	3900	060071	S2G5 no fire
15:53	712	3901	060071	S3G1 auto fire
15:53	714	3903	060071	S3G2 delta timing 2.1 ms
15:54	715	3904	060071	S3G1 auto fire
15:54	717	3906	060071	S2G3,G5 no fire
15:55	719	3908	060071	S2G2,G3,G5 no fire
15:55	720	3909	060071	S2G3,G5 no fire
15:55	721	3910	060071	S2G8,G3,G5 no fire
15:56	723	3912	060071	S2G3,G5 no fire,S3G1 auto fire
15:56	725	3914	060071	S2G5 no fire
15:57	327	3516	060071	S2G3,G5 no fire,S3G1 auto fire
15:58	330	3519	060071	S2G8 no fire
15:58	331	3520	060071	S2G5 no fire
15:58	332	3521	060071	S3G1 auto fire
15:59	333	3522	060071	
15:59	334	3523	060071	
16:00	336	3525	060071	
16:00	737	3926	060071	
16:00	738	3927	060071	
16:01	740	3929	060071	
16:01	741	3930	060071	

16:01	742	3931	060071	S2G5 no fire
16:02	743	3932	060071	S2G8,G10,G5 no fire
16:03	745	3934	060071	S2G5 no fire
16:03	747	3936	060071	S2G2,G3,G5 no fire
16:03	748	3937	060071	S2G5 no fire
16:03	749	3938	060071	S2G3,G5 no fire
	751	3940	060071	S2G2,G3,G5 no fire
	752	3941	060071	S2G9,G3,G5 no fire
	754	3943	060071	S2G3,G5 no fire
	755	3944	060071	S2G5 no fire
	756	3945	060071	S2G3,G5 no fire
	757	3946	060071	S2G3,G5 no fire
	758	3947	060071	S2G5 no fire
	759	3948	060071	S2G3,G5 no fire
	760	3949	060071	S2G3,G5 no fire
	761	3950	060071	S2G3,G5 no fire
	762	3951	060071	S2G3,G5 no fire
	763	3952	060071	S4G5 no fire
	764	3953	060071	S4G5 no fire
	765	3954	060071	S2G3,G5 no fire
16:12	778	3967	060071	S4G01 no fire
16:12	779	3968	060071	S2G03 no fire
16:13	783	3972	060071	S2G03 no fire
16:14	786	3975	060071	S2G03 no fire
16:14	787	3976	060071	S2G02 03 04
16:15	789	3978	060071	S2G03 no fire
16:15	790	3979	060071	S2G09 no fire
16:15	792	3981	060071	S2G02 03 no fire
16:16	793	3982	060071	S2G02 no fire
16:16	794	3983	060071	S2G02 03 no fire
16:17	796	3985	060071	S2G08 09 no fire
	797	3986	060071	S2G08 09 no fire
	798	3987	060071	S2G03 no fire
	802	3991	060071	S2G03 no fire
	805	3994	060071	S2G03 no fire
	806	3995	060071	S2G03 S4G01 no fire
	808	3997	060071	S2G03 07 08 no fire
	810	3999	060071	S2G03 no fire
16:21	813	4002	060071	S2G08 no fire
	814	4003	060071	S2G02 no fire
	815	4004	060071	S2G03 no fire
	818	4007	060071	S2G03 no fire
	820	4009	060071	S2G10 no fire
	825	4014	060071	S2G03 no fire
	826	4015	060071	S2G03 no fire
	828	4017	060071	S2G03 no fire
	829	4018	060071	S2G03 no fire
	830	4019	060071	S2G02 03 no fire
	832	4021	060071	S2G02 03 no fire
	833	4022	060071	S2G03 no fire
	834	4023	060071	S2G03 no fire

	836	4025	060071	S2G03 no fire
	839	4028	060071	S2G03 no fire
	843	4032	060071	S2G03 no fire
	844	4033	060071	S2G03 no fire
	845	4034	060071	S1G08 auto 352.8ms
16:31	847	4036	060071	S2G03 no fire
	850	4039	060071	S2G03 no fire
	852	4041	060071	S4G01 no fire
	859	4048	060071	S2G08 09 nofire
16:43	888	4077	060071	S4G01 no fire
16:44	891	4080	060071	S2G09 nofire
16:45	897	4086	060071	S2G08 no fire
16:52	919	4108	060071	S4G01 no fire
16:52	922	4111	060071	S4G01 no fire
16:54	928	4117	060071	S2G08 09 NO FIRE
16:55	932	4121	060071	S4G01 no fire
17:00	947	4136	060071	S2G10 no fire
17:02	955	4144	060071	S4G01 no fire
17:03	961	4150	060071	S2G10 no fire
17:05	966	4155	060071	s2g02 NO FIRE
17:08	976	4165	060071	S2G10 no fire
1708	978	4167	060071	S2G02 no fire
1709	979	4168	060071	S4G01 no fire
1710	983	4172	060071	S2G02 NO FIRE
1711	987	4176	060071	S4G01 no fire
1711	988	4177	060071	S2G09 S4G01 NOFIRE
1712	990	4179	060071	S2G09 NO FIRE
1712	991	4180	060071	S2G09 NO FIRE
1713	994	4183	060071	S3G07 NO FIRE
1713	995	4184	060071	S4G01 no fire
1713	996	4185	060071	S2G08 auto fire 102.4ms
1717	1011	4200	060071	S2G10 S4G01 NO FIRE
1719	1017	4206	060071	S1G08 auto fire 1220.8ms
1725	1039	4228	060071	S4G01 no fire
1728	1047	4236	060071	S2G10 NO FIRE
1733	1066	4255	060071	S3G02 delta 2.7ms
1735	1072	4261	060071	S4G01 no fire
17:39	1087	4276	060071	S4G01 no fire
17:40	1090	4279	060071	S4G01 no fire
1743	1102	4291	060071	S1G08 delta 3.4ms
1743	1103	4292	060071	S1G08 delta -2.6ms
1748	1120	4309	060071	S4G01 no fire
1749	1124	4313	060071	S4G01 no fire
1757	1151	4340	060071	S4G01 no fire
1801	1166	4355	060071	S2G10 No Fire
1811	1199	4388	060071	S4G01 no fire
1811	1200	4389	060071	S2G2 no fire
1811	1202	4391	060071	S2G2 no fire
1817	1216	4405	060071	S2G2 no fire
1817	1220	4409	060071	S2G2 no fire
1818	1226	4415	060071	S2G10 no fire

1820	1231	4420	060071	S2G2 no fire
1822	1239	4428	060071	S2G2,10 No Fire
1825	1251	4440	060071	S2G2 no fire
1827	1256	4445	060071	S3G2 Delta 2.1ms
1829	1264	4453	060071	S2G10 no fire
1829	1266	4455	060071	S2G10 no fire
1830	1267	4456	060071	S2G9,10 No Fire
1833	1280	4469	060071	S4G01 -2.1ms
1835	1287	4476	060071	S2G2 no fire
1836	1289	4478	060071	S4G01 no fire
1836	1291	4480	060071	S4G01 no fire
1838	1297	4486	060071	S4G01 no fire
1838	1297	4486	060071	S4G01 no fire
1848	1321	4510	060071	S4G1 No Fire
1845	1322	4511	060071	S2G9 No Fire
1846	1327	4516	060071	S2G10 No Fire
1847	1330	4519	060071	S2G10 No Fire
1854	1353	4542	060071	S2G2 no fire
1857	1366	4555	060071	S4G1 No Fire
1859	1372	4561	060071	S2G10 No Fire
1903	1386	4575	060071	S4G1 No Fire
1904	1390	4579	060071	S4G1 No Fire
1906	1398	4587	060071	S2G2 no fire
1906	1400	4589	060072	reel change 060071-060072
1907	1403	4592	060072	S2G10 No Fire
1908	1406	4595	060072	S2G2 No Fire S2G7 Auto Fire at 179.2ms
1909	1408	4597	060072	S2G2 No Fire
1910	1411	4600	060072	S2G2 No Fire
1910	1412	4601	060072	S2G2 No Fire
1912	1418	4607	060072	S1G8 Delta 3.6ms
1912	1419	4608	060072	S1G8 Delta -2.8ms S2G2 No Fire
1913	1424	4613	060072	S2G2 No Fire
1915	1428	4617	060072	S2G2 No Fire
1919	1445	4634	060072	S1G8 Auto Fire at 13164ms
1921	1450	4639	060072	S1G8 Delta 3.5ms
1921	1451	4640	060072	S1G8 Delta -2.8ms
1922	1455	4644	060072	S2G10 no fire
1925	1466	4655	060072	S1G8 Auto Fire at 10096ms
1926	1469	4658	060072	S2G9,10 No Fire
1927	1472	4661	060072	S2G10 no fire
1928	1477	4666	060072	S2G2 No Fire
1937	1508	4697	060072	S4G1 No Fire
1939	1515	4704	060072	S4G1 No Fire
1942	1527	4716	060072	S1G8 Delta 3.1ms
1943	1528	4717	060072	S1G8 Delta -2.1ms
1945	1535	4724	060072	S4G1 No Fire
1954	1570	4759	060072	S2G10 no fire
2005	1606	4795	060072	S2G02, S4G01 No fire
2005	1608	4797	060072	S2G10 No fire
2013	1635	4824	060072	S4G01 No fire
2014	1639	4828	060072	S2G10 no fire

2018	1652	4841	060072	S1G10 Delta 2.4 ms
2019	1654	4843	060072	S1G10 Delta -2.2 ms
2019	1655	4844	060072	S1G10 Delta 2.2 ms
2021	1663	4852	060072	S4G01 no fire
2024	1672	4861	060072	S1G10 Delta 2.1 ms
2025	1675	4864	060072	S2G02 NO FIRE
2028	1687	4876	060072	S1G10 Delta 2.4 ms
2028	1688	4877	060072	S1G10 Delta -2.5 ms
2030	1695	4884	060072	S4G01 no fire
2031	1698	4887	060072	S1G08 Delta 4.2 ms
2032	1699	4888	060072	S1G08 Delta -3.2 ms
2033	1705	4894	060072	S2G9 No fire
2035	1709	4898	060072	S2G10 NO FIRE
2035	1711	4900	060072	S4G01 no fire
2036	1715	4904	060072	S4G01 no fire
2037	1717	4906	060072	S1G10 Delta 2.2 ms
2037	1718	4907	060072	S1G10 Delta -2.6 ms
2041	1732	4921	060072	S1G10 Delta 2.2 ms
2042	1733	4922	060072	S1G10 Delta -2.1 ms
2042	1736	4925	060072	S1G08 Delta 3.5 ms; S2G02 No fire
2043	1737	4926	060072	S1G08 Delta -2.7 ms; S4G01 No fire
2103	1806	4995	060072	S3G01 Auto fire at 506.4 ms; S4G01 No fire
2103	1807	4996	060072	S2G02 NO FIRE
2107	1819	5008	060072	S2G09,10 No fire
2110	1831	5020	060072	S2G02 NO FIRE
2112	1838	5027	060072	S1G08 Delta 3.6 ms
2113	1839	5028	060072	S1G08 Delta -2.8 ms
2115	1849	5038	060072	S2G02 No fire
2116	1850	5039	060072	S4G01 no fire
2118	1858	5047	060072	S4G01 no fire
2124	1880	5069	060072	S4G01 no fire
2127	1890	5079	060072	S2G10 No Fire
2135	1914	5103	060072	S2G02 NO FIRE
2136	1920	5109	060072	S4G01 no fire
2139	1928	5117	060072	S2G08,10 No fire
2139	1929	5118	060072	S4G01 No fire
21:39	1930	5119	060072	S4G01 No fire
21:40	1931	5120	060072	S2G10 No fire
21:45	1950	5139	060072	S1G08 Delta 3.7 ms
21:45	1951	5140	060072	S1G08 Delta -2.8 ms
21:57	1990	5179	060072	S4G08 Delta 3.6 ms
21:57	1991	5180	060072	S1G08 Delta -2.9 ms
21:58	1993	5182	060072	S2G02,07 No fire
22:00	1999	5188	060072	S4G01 no fire
22:00	2000	5189	060072	S2G08 no fire
22:03	2008	5197	060072	S3G02 delta 2.2ms

2206	2020	5209	060072	S1G08 delta 3.4ms
2207	2021	5210	060072	S1G08 Delta -2.7 ms; S2G10 No fire
2210	2031	5220	060072	S2G02 NO FIRE
2216	2053	5242	060072	S2G02 NO FIRE
2216	2054	5243	060072	S4G01 No fire
2227	2089	5278	060072	S4G01S2G02 No fire
2227	2090	5279	060072	S4G01 NO FIRE
2227	2091	5280	060072	S4G01 No fire
2228	2093	5282	060072	S2G10 No Fire
2228	2095	5284	060072	S4G01 NO FIRE
2229	2100	5289	060073	REEL CHANGE 060072-060073
2231	2105	5294	060073	S4G01 No fire
2235	2119	5308	060073	S4G01 No fire
2238	2127	5316	060073	S2G02 NO FIRE
2246	2154	5343	060073	auto fire s3g01 136.8 ms
2249	2164	5353	060073	S2G10 no fire
2249	2166	5355	060073	S4G01 No fire
2251	2170	5359	060073	s2g02 s2g08 no fire
2256	2189	5378	060073	S4G01 No fire
2257	2192	5381	060073	S2G10 No fire
2259	2200	5389	060073	S4G01 No fire
2300	2203	5392	060073	S2G09 No fire
2301	2205	5394	060073	S2G09 No fire
2302	2209	5398	060073	S2G02 No fire
2305	2221	5410	060073	S4G01 No fire
2308	2231	5420	060073	S2G02 No fire
2308	2232	5421	060073	S4G01 No fire
2309	2233	5422	060073	S2G09,10 No fire
2311	2241	5430	060073	S2G02 No fire
2311	2242	5431	060073	S3G01 Auto fire at 132.8 ms
2312	2243	5432	060073	S2G02 No fire
2315	2255	5444	060073	S2G02,07 No fire
2317	2261	5450	060073	S2G02 No fire
2325	2288	5477	060073	S2G07 Auto fire at 26406.4 ms
2329	2300	5489	060073	S4G01 No fire
2329	2301	5490	060073	S4G01 No fire
2330	2303	5492	060073	S4G01 No fire
2331	2306	5495	060073	S4G01 No fire
2331	2307	5496	060073	S2G10 No fire
2333	2315	5504	060073	S2G08 No fire
2334	2316	5505	060073	S2G01 Nofire
2334	2317	5506	060073	S2G07,09 No fire
2341	2338	5527	060073	S4G01 No fire
2351	2372	5561	060073	S2G02 NO FIRE
2351	2373	5562	060073	S4G01 no fire
2352	2375	5564	060073	s2g09 s2g10 no fire
2353	2379	5568	060073	S4G01 no fire
0000	2400	5589	060073	S4G1 no fire
0005	2416	5605	060073	S4G1 no fire
0010	2443	5632	060073	S2G2 NO FIRE
0014	2446	5635	060073	EOL LAT 024 15.52961 N LONG 121 59.90107 E

Observers Log	
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Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

Line	MGL0906_27
Sequence	039
Direction	190

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	15s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

Abbreviations	
SOL/EOI - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BO/EOI - Begin/End of Tape	Si - Seismic Interference
NDR - No Data Recorded	ITB - Irradiation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
0035	1	987	060074	SOL LAT 024 15.59701 N LONG 121058.74361 E
0047	35	1021	060074	S4G01 NO FIRE
0048	36	1022	060074	S4G01 NO FIRE
0059	64	1050	060074	S3G01 AUTO FIRE 123.2 ms
0108	84	1070	060074	S4G01 NO FIRE
0119	87	1073	060074	S3G01 AUTO FIRE 176.0 ms
0136	154	1140	060074	S4G2 delta timing -3.4 ms string 2 deployed full volume 6600 in3
0140	163	1149	060074	S4G1 no fire
0143	171	1157	060074	S4G1 no fire
0144	174	1160	060074	S2G3,G4 no fire
0201	214	1200	060074	S4G1 no fire
0205	226	1212	060074	S4G1 no fire
0207	230	1216	060074	S2G3 no fire
0207	231	1217	060074	S2G3 no fire
0208	233	1219	060074	S2G3 no fire
0208	234	1220	060074	S2G3,G4 no fire
0209	235	1221	060074	S2G3,G4 no fire
0209	236	1222	060074	S2G2,G3,G4 no fire
0210	237	1223	060074	S4G1 no fire
0212	242	1228	060074	S4G1 no fire
0215	250	1236	060074	S2G3 no fire
0216	252	1238	060074	S2G2,G3 no fire
0216	253	1239	060074	S2G3 no fire
0225	274	1260	060074	S2G2,G3,G8 no fire
0228	281	1267	060074	S4G1 no fire
0231	289	1275	060074	S2G2,G3,G4 no fire
0231	290	1276	060074	S2G2,G3,G4 no fire
0232	291	1277	060074	S2G3 no fire
0233	292	1278	060074	S2G2,G3 no fire,S4G1 no fire
0233	293	1279	060074	S2G3 no fire
0233	294	1280	060074	S2G3 no fire
0233	295	1281	060074	S2G3 no fire
0234	296	1282	060074	S2G2,G3,G4 no fire
0234	297	1283	060074	S2G3 no fire
0234	298	1284	060074	S2G2 no fire
0235	299	1285	060074	S2G2 no fire
0235	300	1286	060074	S2G4 no fire
0236	301	1287	060074	S2G2 no fire
0239	279	1265	060074	S1G10 delta timing -2.3 ms
0239	310	1296	060074	S2G2,G4 no fire
0240	312	1298	060074	S4G1 no fire
0240	313	1299	060074	S4G1 no fire
0246	326	1312	060074	S4G1 no fire
0252	343	1329	060074	S2G2 no fire
0254	349	1335	060074	S4G1 no fire
0255	350	1336	060074	S2G2 no fire
0255	351	1337	060074	S2G4 no fire
0256	353	1339	060074	S4G1 no fire
0256	354	1340	060074	S4G1 no fire
0300	363	1349	060074	S4G1 no fire
0301	366	1352	060074	S4G1 no fire
0303	369	1355	060074	EOL LAT 024 06.02178 N LONG 121 55.42276 E
	-986		060074	

Observers Log	
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Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

Line	MGL0906_28
Sequence	040
Direction	103

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	15s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOI - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - Last Full Fold SP
FOLSP - First Overlap SP	FA - Feather Angle
BO/EOI - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
0317	1	939	060075	SOL LAT 024 05.32046 N LONG 121 56.20352 E
0319	7	945	060075	S3G1 auto fire at 176.0 ms
0320	9	947	060075	S2G2 no fire
0321	13	951	060075	S3G1 auto fire at 178.4 ms
0323	18	956	060075	S2G9,G10 no fire
0326	27	965	060075	S2G2 no fire
0327	31	969	060075	S4G1 no fire
0329	37	975	060075	S4G1 no fire
0331	44	982	060075	S4G1 no fire
0332	45	983	060075	S2G2 no fire
0332	47	985	060075	S2G2 no fire,S4G1 no fire
0334	51	989	060075	S2G10 no fire
0336	58	996	060075	S3G1 auto fire at 176.0 ms
0339	66	1004	060075	S4G1 no fire
0341	72	1010	060075	S2G10 auto fire at 179.2 ms
0341	74	1012	060075	S3G1 auto fire at 179.2 ms
0344	80	1018	060075	S2G10 no fire
0344	81	1019	060075	S2G9 no fire
0350	98	1036	060075	S3G1 auto fire at 173.6 ms,S2G2,G4 no fire
0351	102	1040	060075	S4G1 no fire
0351	103	1041	060075	S4G1 no fire
0356	117	1055	060075	S4G1 no fire
0357	119	1057	060075	S2G2 no fire
0400	129	1067	060075	S3G1 auto fire at 166.4 ms
0404	139	1077	060075	S4G1 no fire
0409	154	1092	060075	S3G1 auto fire at 158.4 ms
0412	163	1101	060075	S3G1 Auto Fire at 178.4ms
0413	166	1104	060075	S4G1 no fire
04:15	172	1110	060075	S3G1 Auto Fire at 181ms
0420	186	1124	060075	S3G1 Auto Fire at 173ms, S2G8 No Fire
0424	195	1133	060075	S2G2 no fire
0424	196	1134	060075	S2G2,4 no fire
0425	199	1137	060075	S2G9 no fire
0427	205	1143	060075	S2G8 no fire
0431	214	1152	060075	S3G1 Auto Fire at 168ms
0431	215	1153	060075	S4G1 no fire
0432	220	1158	060075	S4G1 no fire
0437	231	1169	060075	S2G8 no fire
0441	242	1180	060075	S2G8,10 no fire
0441	243	1181	060075	S3G2 delta timing @ -2.1ms
0447	257	1195	060075	S4G1 no fire
0450	264	1202	060075	S2G8 no fire
0450	266	1204	060075	S4G1 no fire
0452	271	1209	060075	S2G8 no fire

0453	272	1210	060075	S2G9 no fire
0455	277	1215	060075	S2G2,S4G1 no fire
0455	279	1217	060075	S2G8,9 no fire
0459	288	1226	060075	S2G8 no fire
0500	292	1230	060075	S2G2 no fire
0502	297	1235	060075	S2G8 no fire
0507	310	1248	060075	S2G9 no fire
0507	311	1249	060075	S2G2,4 S4G1 no fire
0508	314	1252	060075	S4G1 no fire
0510	319	1257	060075	S2G2 no fire
0511	322	1260	060075	S2G8 no fire
0513	326	1264	060075	S2G2 no fire
0513	327	1265	060075	S2G8 no fire
0514	329	1267	060075	S3G1 Auto Fire at 159ms
0515	333	1271	060075	S2G8 no fire
0519	343	1281	060075	S3G1 Auto Fire at 168ms
0519	344	1282	060075	S2G8,9 no fire
0520	345	1283	060075	S2G2,9 no fire
0521	347	1285	060075	S4G1 no fire
0521	348	1286	060075	S2G8 no fire
0525	359	1297	060075	S3G1 Auto Fire at 168ms
0526	362	1300	060075	S2G8 no fire
0529	369	1307	060075	S2G9 no fire
0531	373	1311	060075	S2G2 no fire
0534	381	1319	060075	S4G1 no fire
0534	382	1320	060075	S2G10 no fire
0535	383	1321	060075	S2G9 no fire
0537	390	1328	060075	S2G8 no fire
0543	404	1342	060075	S2G2 no fire
0543	405	1343	060075	S2G2,4,7 no fire
0544	407	1345	060075	S4G1 no fire
0545	409	1347	060075	S4G1 no fire
0546	412	1350	060075	S3G1 Auto Fire at 173ms, S2G2,4 No Fire
0547	414	1352	060075	S2G2,4 no fire
0549	419	1357	060075	S2G2 no fire
0551	424	1362	060075	S4G1 no fire
0551	425	1363	060075	S2G2 no fire
0555	435	1373	060075	S2G2 no fire
0556	436	1374	060075	S2G8 no fire
0557	438	1376	060075	S2G8 no fire
0557	440	1378	060075	S4G1 no fire
0558	442	1380	060075	S2G9 no fire
0603	455	1393	060075	S3G01 no fire
0611	474	1412	060075	S4G01 no fire
0612	477	1415	060075	S2G08 S2G10 no fire

0614	483	1421	060075	S3G01 auto fire 176.8ms
0615	486	1424	060075	S2G09 no fire
0620	498	1436	060075	S2G08 no fire
0622	504	1442	060075	S4G01 no fire

0623	507	1445	060075	S3G01 auto fire 162.4ms
0627	515	1453	060075	S2G02 no fire
0634	533	1471	060075	S2G02 04 07 no fire
0636	539	1477	060075	S2G02 no fire S3G02 delta 2.5ms
0638	544	1482	060075	S2G08 no fire
0639	546	1484	060075	S2G10 no fire
0640	549	1487	060075	SG02 no fire
0645	560	1498	060075	S4G01 no fire
0645	561	1499	060075	S3G01 auto fire 169.6ms
0646	562	1500	060075	S4G01 no fire
0647	565	1503	060075	S2G02 no fire
0648	568	1506	060075	S2G08 no fire
0650	573	1511	060075	S4G01 no fire
0652	577	1515	060075	S2G02 no fire
0653	579	1517	060075	S4G01 no fire
0653	581	1519	060075	S2G02 no fire
0656	588	1526	060075	S2G04 no fire
0656	589	1527	060075	S4G01 no fire
0703	607	1545	060075	S3G1 No Fire
0712	628	1566	060075	S3G1 Auto Fire 176.8ms
0713	632	1570	060075	S3G1 S4G1 No Fire
0718	644	1582	060075	S2G10 No Fire
0719	648	1586	060075	S2G8 No Fire S3G1 Auto Fire 175.2ms
0720	650	1588	060075	S2G2 No Fire
0723	657	1595	060075	S2G8 No Fire
0724	661	1599	060075	S3G1 Auto Fire at 173.6ms
0728	669	1607	060075	S2G4 No Fire
0730	674	1612	060075	S4G1 no fire
0731	678	1616	060075	S4G1 no fire
0732	679	1617	060075	S4G1 no fire
0734	685	1623	060075	S4G1 no fire
0737	694	1632	060075	S2G4 No Fire
0740	700	1638	060076	reel change 060075 -060076
0742	707	1645	060076	S4G1 no fire
0747	718	1656	060076	S4G1 no fire
0750	726	1664	060076	S2G8 No Fire
0750	727	1665	060076	S2G4 No Fire
0753	735	1673	060076	S4G1 no fire
0806	771	1709	060076	S2G10 No fire
0807	773	1711	060076	S2G02 No fire
0840	862	1800	060076	Steering off line for 'gear'

08:36	855	1793	060076	S2G08 No fire
08:37	858	1796	060076	S2G09 No fire
08:38	860	1798	060076	S4G01 No fire
08:40	866	1804	060076	S2G08,S4G01 No fire
08:42	870	1808	060076	S2G02,04 No fire
08:42	871	1809	060076	S2G08 No fire
08:43	872	1810	060076	S2G08 No fire
08:44	875	1813	060076	S2G02,04 No fire
08:44	876	1814	060076	S2G02,04 No fire
08:45	877	1815	060076	S2G02 No fire
08:45	878	1816	060076	S2G08 No fire
08:46	880	1818	060076	S2G09,10 No fire
08:46	881	1819	060076	S2G02,04,08,10 No fire
08:47	882	1820	060076	S2G02,04 No fire
08:48	885	1823	060076	S2G10 No fire
08:49	888	1826	060076	S2G02 No fire
08:49	890	1828	060076	S2G08 No fire
08:51	893	1831	060076	S2G08 No fire
08:51	894	1832	060076	S3G01 Auto fire at 177.6 ms
08:52	896	1834	060076	S2G02 No fire
08:52	898	1836	060076	S2G02,04 No fire
08:54	902	1840	060076	S2G08 No fire
08:54	903	1841	060076	S3G01 Auto fire at 177.6 ms
08:55	905	1843	060076	S2G02,04 No fire
08:55	906	1844	060076	S4G01 No fire
08:56	909	1847	060076	S2G04 No fire
08:57	910	1848	060076	S3G01 Auto fire at 185.6 ms
08:57	912	1850	060076	S2G02,04 No fire
08:58	914	1852	060076	S2G04 No fire
08:58	915	1853	060076	S2G02,04 No fire
08:59	917	1855	060076	S2G02,04; S4G01 No fire
09:00	919	1857	060076	S2G02,10 No fire
09:00	920	1858	060076	S3G01 Auto fire at 176.0 ms
09:00	921	1859	060076	S2G02,04 No fire
09:02	924	1862	060076	S2G08 No fire
09:02	925	1863	060076	S2G08, S4G01 No fire
09:02	926	1864	060076	S2G08, S4G01 No fire
09:03	928	1866	060076	S2G08 No fire
09:03	929	1867	060076	S2G04 No fire
09:04	930	1868	060076	S2G02 No fire
09:06	937	1875	060076	S2G02,04 No fire
09:07	939	1877	060076	EOL

Observers Log	
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Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

Line	MGL0906_029
Sequence	041
Direction	335deg

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	15s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOI - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BO/EOI - Begin/End of Tape	Si - Seismic Interference
NDR - No Data Recorded	ITB - Irradiation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
09:22	1	952	060077	SOL MGL0906-029_Seq041
09:22	1	952	060077	S2G02.04 No fire
09:23	3	954	060077	S2G02.04 No fire
09:24	6	957	060077	S2G02 No fire
09:25	8	959	060077	S2G02.04; S4G01 No fire
09:26	11	962	060077	S2G02.04.08 No fire
09:27	13	964	060077	S2G02.04; S4G01 No fire
09:27	14	965	060077	S2G08 No fire
09:27	15	966	060077	S2G02 No fire
09:29	19	970	060077	S2G02.04 No fire
09:29	20	971	060077	S4G01 No fire
09:29	21	972	060077	S3G01 Auto fire at 181.6 ms
09:31	28	979	060077	S3G01 Auto fire at 172.8 ms
09:33	32	983	060077	S3G01 Auto fire at 115.2 ms
09:42	61	1012	060077	S4G01 No fire
09:44	68	1019	060077	S3G01 Auto fire at 176.0 ms
09:45	71	1022	060077	S4G01 No fire
09:46	74	1025	060077	S2G02.08 No fire
09:47	78	1029	060077	S3G01 No fire
09:50	87	1038	060077	S3G01 AUTO FIRE 176.8 ms
09:52	91	1042	060077	S2G08 No fire
09:54	98	1049	060077	S2G09 NO fire
09:55	100	1051	060077	S2G02 No fire
09:56	104	1055	060077	S3G01/S4G01 NO FIRE
09:57	106	1057	060077	S1G08 Delta 3.2 ms
09:57	107	1058	060077	S1G08 Delta -2.3 ms
09:58	111	1062	060077	S2G08/10 S3G01 No fire
09:58	112	1063	060077	S2G04 NO FIRE
09:59	112	1063	060077	S2G04 NO FIRE
09:59	112	1063	060077	S2G08 Delta 4.2 ms
10:00	115	1066	060077	S2G02/S3G03 NO FIRE
10:02	120	1071	060077	S2G08 No fire
10:03	123	1074	060077	S2G08/S2G09 NO FIRE
10:03	124	1075	060077	S2G08/S4G01 NO FIRE
10:04	126	1077	060077	S2G02 No fire
10:05	128	1079	060077	S2G08 No fire
10:05	129	1080	060077	S2G02/S4G01 NO FIRE
10:06	131	1082	060077	S2G02/S4G01 NO FIRE
10:06	132	1083	060077	S2G02 No fire
10:07	133	1084	060077	S2G2 NO FIRE S3G1 AUTO FIRE
10:07	134	1085	060077	S2G2/4 NO FIRE
10:08	137	1088	060077	S2G6/8 NO FIRE
10:09	139	1090	060077	S2G02/4 NO FIRE
10:11	144	1095	060077	S3G03 NO FIRE
10:12	145	1096	060077	S2G02 NO FIRE
10:13	147	1098	060077	S3G01 AUTO FIRE 164 ms
10:14	149	1100	060077	s2g02/04 no fire
10:14	150	1101	060077	S2G02 No fire
10:15	152	1103	060077	S2G02 No fire
10:16	154	1105	060077	s2g08/09 no fire
10:16	155	1106	060077	s2g08/s3g01 no fire
10:18	159	1110	060077	s2g02/09 no fire
10:19	161	1112	060077	s2g02 no fire
10:20	164	1115	060077	s2g08 no fire
10:21	166	1117	060077	S4G01 No fire
10:22	167	1118	060077	S2G02 No fire
10:22	169	1120	060077	s2g08 s4g01 no fire
10:23	170	1121	060077	s3g01 auto fire 167.2 ms
10:24	173	1124	060077	s2g02/04 no fire
10:25	175	1126	060077	s2g02/04 s4g01 no fire
10:26	178	1129	060077	s2g02/04/08 no fire
10:27	180	1131	060077	s2g01/2/8/9/10 no fire s3g01 auto fire 178.4 ms
10:28	182	1133	060077	s2g08/09/2 no fire
10:29	183	1134	060077	S2G2 NO FIRE
10:29	184	1135	060077	s2g02/09 no fire
10:31	188	1139	060077	s2g2 no fire
10:34	191	1142	060077	s2g2 no fire
10:35	192	1143	060077	S2G08 No fire
10:36	193	1144	060077	s2g04/8/9 NO FIRE
10:37	193	1144	060077	EOL Lat 24d04.3259 N Lon 122d21.0750 I

Observers Log	
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Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

Line	MGL0906_29
Sequence	041
Direction	335deg

Recording Parameters	
Record Length	15s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGd rev. 1

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

Abbreviations	
SOL/EOI - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - Last Full Fold SP
FOISP - First Overlap SP	Fa - Feather Angle
BOE/OE - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - In-lamination Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
09:22	1	952	060077	SOL MGL0906-029_Seq041
09:22	1	952	060077	S2G02.04 No fire
09:23	3	954	060077	S2G02.04 No fire
09:24	6	957	060077	S2G02 No fire
09:25	8	959	060077	S2G02.04; S4G01 No fire
09:26	11	962	060077	S2G02.04.08 No fire
09:27	13	964	060077	S2G02.04; S4G01 No fire
09:27	14	965	060077	S2G08 No fire
09:27	15	966	060077	S2G02 No fire
09:29	19	970	060077	S2G02.04 No fire
09:29	20	971	060077	S4G01 No fire
09:29	21	972	060077	S3G01 Auto fire at 181.6 ms
09:31	28	979	060077	S3G01 Auto fire at 172.8 ms
09:33	32	983	060077	S3G01 Auto fire at 115.2 ms
09:42	61	1012	060077	S4G01 No fire
09:44	68	1019	060077	S3G01 Auto fire at 176.0 ms
09:45	71	1022	060077	S4G01 No fire
09:46	74	1025	060077	S2G02.08 No fire
09:47	78	1029	060077	S3G01 No fire
09:50	87	1038	060077	S3G01 AUTO FIRE 176.8 ms
09:52	91	1042	060077	S2G08 No fire
09:54	98	1049	060077	S2G09 NO fire
09:55	100	1051	060077	S2G02 No fire
09:56	104	1055	060077	S3G01/S4G01 NO FIRE
09:57	106	1057	060077	S1G08 Delta 3.2 ms
09:57	107	1058	060077	S1G08 Delta -2.3 ms
09:58	111	1062	060077	S2G08/10 S3G01 No fire
09:58	112	1063	060077	S2G04 NO FIRE
09:59	112	1063	060077	S2G04 NO FIRE
09:59	112	1063	060077	S2G08 Delta 4.2 ms
10:00	115	1066	060077	S2G02/S3G03 NO FIRE
10:02	120	1071	060077	S2G08 No fire
10:03	123	1074	060077	S2G08/S2G09 NO FIRE
10:03	124	1075	060077	S2G08/S4G01 NO FIRE
10:04	126	1077	060077	S2G02 No fire
10:05	128	1079	060077	S2G08 No fire
10:05	129	1080	060077	S2G02/S4G01 NO FIRE
10:06	131	1082	060077	S2G02/S4G01 NO FIRE
10:06	132	1083	060077	S2G02 No fire
10:07	133	1084	060077	S2G2 NO FIRE S3G1 AUTO FIRE
10:07	134	1085	060077	S2G2/4 NO FIRE
10:08	137	1088	060077	S2G6/8 NO FIRE
10:09	139	1090	060077	S2G02/4 NO FIRE
10:11	144	1095	060077	S3G03 NO FIRE
10:12	145	1096	060077	S2G02 NO FIRE
10:13	147	1098	060077	S3G01 AUTO FIRE 164 ms
10:14	149	1100	060077	s2g02/04 no fire
10:14	150	1101	060077	S2G02 No fire
10:15	152	1103	060077	S2G02 No fire
10:16	154	1105	060077	s2g08/09 no fire
10:16	155	1106	060077	s2g08/s3g01 no fire
10:18	159	1110	060077	s2g02/09 no fire
10:19	161	1112	060077	s2g02 no fire
10:20	164	1115	060077	s2g08 no fire
10:21	166	1117	060077	S4G01 No fire
10:22	167	1118	060077	S2G02 No fire
10:22	169	1120	060077	s2g08 s4g01 no fire
10:23	170	1121	060077	s3g01 auto fire 167.2 ms
10:24	173	1124	060077	s2g02/04 no fire
10:25	175	1126	060077	s2g02/04 s4g01 no fire
10:26	178	1129	060077	s2g02/04/08 no fire
10:27	180	1131	060077	s2g01/2/8/9/10 no fire s3g01 auto fire 178.4 ms
10:28	182	1133	060077	s2g08/09/2 no fire
10:29	183	1134	060077	S2G2 NO FIRE
10:29	184	1135	060077	s2g02/09 no fire
10:31	188	1139	060077	s2g2 no fire
10:34	191	1142	060077	s2g2 no fire
10:35	192	1143	060077	S2G08 No fire
10:36	193	1144	060077	s2g04/8/9 NO FIRE
10:37	193	1144	060077	EOL Lat 24d04.3259 N Lon 122d21.0750 I

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #	060078	060078	FGSP	937
SP #	937	945	LGSP	945

Line	MGL0906_30
Sequence	042
Direction	180

Streamer Parameters				
	1	2	3	4
Length			6000	
Auxiliaries				
Shotpoint Interval:			50	
Offset CS - CFG			161	
Group Interval:			12.5	
Number of channels			468	
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	15s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/31/09	05/31/09
Time UTC	11:05	11:10
Volume (cu in.)	6560	6560
Streamer Depth (m)	9	9
Wind (kts)	8.6	6.3
Sea State (ft)	1-3	1-3
Water Depth (m)	3441	3517

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL 24 03.73303 N 122 20.04883 E
EOL 24 03.51652 N 122 20.02296 E

Ended line early due to external trigger problems
observer log edited by Bern McKiernan, info was derived from Nav logs

Line Status:

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Observers Log	
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Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

Line	MGL0906_30
Sequence	043
Direction	180 deg.

Recording Parameters	
Record Length	15s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

Abbreviations	
SOL/OL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - Last Full Fold SP
FO/SP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	Si - Seismic Interference
NDR - No Data Recorded	ITB - Initiation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.E.P. - Not To Be Processed	

[illegible]

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #	060080	060083	FGSP	1739
SP #	1739	4515	LGSP	4515

Line	MGL0906_30A
Sequence	044
Direction	180

Streamer Parameters				
	1	2	3	4
Length			6000	
Auxiliaries				
Shotpoint Interval:			50	
Offset CS - CFG			161	
Group Interval:			12.5	
Number of channels			468	
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	15s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	05/31/09	06/01/09
Time UTC	21:29	19:54
Volume (cu in.)	3300	6520
Streamer Depth (m)	9	9
Wind (kts)	7.2	8
Sea State (ft)	3	3
Water Depth (m)	3156	4814

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL strings 1 and 2 powered down for PAM deployment volume 3300LAT 23 42.0368 N LONG 122 20.0055 E
22:00 POWER UP STRINGS 1 AND 2 AP 1783
22:07 FGSP FULL VOLUME 6560 S2G03 SPARED S2G04 SPARED S4G05 ACTIVE
23:55 SPARED S2G02 ACTIVE S1G05 S3G05 SP 1973
01:45 SPARED S1G08 DUE TO AUTO FIRES SP2167 NEW VOLUME 6500
01:57 S1G08 ACTIVE client informed of auto fire indications as a possible false indication and continued survey line
12:43 turned off auto fire detection S1G08 no indication of auto fires
17:57 spared s3g02 mulitple no fires new volume 6520 SP4182
19:54 EOL LAT 022 26.81023 N LONG 122 19.85000 E
LAST FILE 2777 LAST REEL 060083
Line Status:

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

	01	1739	060080	SOL strings 1 and 2 powered down for PAM deployment POST VESSEL POWER LOSS
2200	45	1783	060080	STRING 1 AND 2 ONLINE
2205	53	1791	060080	S2G02 NO FIRE
2206	54	1792	060080	S2G02 NO FIRE
2207	55	1793	060080	S2G02 NO FIRE
2209	58	1796	060080	S2G01,02 NO FIRE
2209	59	1797	060080	S2G02,09 NO FIRE
2211	62	1800	060080	S2G02 NO FIRE
2212	63	1801	060080	S2G02 NO FIRE
2214	66	1804	060080	S2G02 NO FIRE
2215	68	1806	060080	S2G02 NO FIRE
2216	69	1807	060080	S2G02 NO FIRE
2217	72	1810	060080	S2G02 NO FIRE
2218	73	1811	060080	S2G02 NO FIRE
2221	77	1815	060080	S2G02 NO FIRE
2232	95	1833	060080	S1G08 DELTA 3.5 ms
2232	96	1834	060080	S1G08 DELTA -2.5 ms
2234	98	1836	060080	S2G02,08,09,10 NO FIRE
2236	101	1839	060080	S3G01 NO FIRE
2237	104	1842	060080	S3G01 NO FIRE
2238	105	1843	060080	S2G08,10 NO FIRE
2241	110	1848	060080	S2G08,09 NO FIRE
2242	112	1850	060080	S2G02,10 NO FIRE
2243	113	1851	060080	S2G02,08 NO FIRE
2245	116	1854	060080	S2G02,08,09 NO FIRE
2245	117	1855	060080	S2G02,08,10 NO FIRE
2247	118	1856	060080	S2G10 NO FIRE; S2G09 DELTA 7 ms

2247	119	1857	060080	S1G08 DELTA -5.3 ms; S2G08,09 NO FIRE
2247	120	1858	060080	S2G08,10 NO FIRE
2249	123	1861	060080	S2G02,08,09,10 NO FIRE
2250	124	1862	060080	S2G08 NO FIRE
2252	128	1866	060080	S2G02 NO FIRE
2254	131	1869	060080	S2G02 NO FIRE
2255	132	1870	060080	S2G02 NO FIRE
2256	134	1872	060080	S2G02 NO FIRE
2258	138	1876	060080	S2G01,09 NO FIRE
2300	141	1879	060080	S2G02 NO FIRE
2300	143	1881	060080	S2G09 NO FIRE
2304	147	1885	060080	S2G02 NO FIRE
2305	149	1887	060080	S2G02 NO FIRE
2306	151	1889	060080	S2G10 NO FIRE
2307	152	1890	060080	S2G08 NO FIRE
2307	153	1891	060080	S2G08 NO FIRE
2310	157	1895	060080	S2G08 NO FIRE
2311	159	1897	060080	S2G02 NO FIRE
2311	160	1898	060080	S2G08 NO FIRE
2312	161	1899	060080	S2G02,09 NO FIRE
2313	162	1900	060080	S2G02,08 NO FIRE
2317	169	1907	060080	S2G08,09 NO FIRE
2319	173	1911	060080	S2G01,08,09,10 NO FIRE
2320	174	1912	060080	S2G02,08 NO FIRE
2322	177	1915	060080	S2G01,02 NO FIRE
2322	178	1916	060080	S2G08 NO FIRE
2326	184	1922	060080	S2G08,09 NO FIRE
2327	186	1924	060080	S2G02,08,10 NO FIRE
2328	188	1926	060080	S2G01 NO FIRE
2329	189	1927	060080	S2G02 NO FIRE
2330	192	1930	060080	S3G01 NO FIRE
2332	195	1933	060080	S2G09 NO\
2333	196	1934	060080	S2G02 NO FIRE
2334	197	1935	060080	S2G01 NO FIRE
2335	200	1938	060080	S2G02,07 NO FIRE
2336	202	1940	060080	S2G02,08,09 NO FIRE
2337	203	1941	060080	S2G02 NO FIRE
2338	205	1943	060080	S2G02 NO FIRE
2339	207	1945	060080	S2G02 ,08 NO FIRE
2340	208	1946	060080	S2G01,2,6,8,9 NO FIRE
2340	209	1947	060080	S2G08,09 NO FIRE

2341	210	1948	060080	S2G01,08,09 NO FIRE
2341	211	1949	060080	S2G02,08 NO FIRE
2342	212	1950	060080	S1G08 DELTA 7.1 ms
2342	213	1951	060080	S1G08 DELTA -5.5 ms S2G02 NO FIRE
2344	215	1953	060080	S2G02,08 NO FIRE
2344	216	1954	060080	S2G01 NO FIRE
2345	217	1955	060080	S2G02 NO FIRE
2346	219	1957	060080	S2G01 NO FIRE
2347	221	1959	060080	S2G02 NO FIRE
2348	223	1961	060080	S2G02 NO FIRE
2350	226	1964	060080	S2G02 NO FIRE
2351	227	1965	060080	S2G02 NO FIRE
2351	228	1966	060080	S2G02,08,10 NO FIRE
2352	229	1967	060080	S2G02 NO FIRE
2352	230	1968	060080	S2G02 NO FIRE
2353	231	1969	060080	S2G02 NO FIRE
2354	232	1970	060080	S2G02 NO FIRE
2354	233	1971	060080	S2G02 NO FIRE
2355	234	1972	060080	S2G02 08 NO FIRE
2355	235	1973	060080	S1G05 DELTA 3.4 MS S1G08 204 ms S3G05 NO FIRE
2356	236	1974	060080	S1G05 DELTA -3.1 ms
2358	240	1978	060080	S2G07 NO FIRE
0000	244	1982	060080	S1G08 AUTO FIRE 1058 ms
0001	246	1984	060080	S2G01 NO FIRE
0002	247	1985	060080	S2G06 NO FIRE
0007	255	1993	060080	S2G1 NO FIRE
0007	256	1994	060080	S1G8 AUTO FIRE
0008	257	1995	060080	S2G1,S2G6 NO FIRE
0009	259	1997	060080	S2G1 NO FIRE
0011	263	2001	060080	S1G8 AUTO FIRE
0012	264	2002	060080	S2G1 NO FIRE
0014	268	2006	060080	S1G8 AUTO FIRE
0015	271	2009	060080	S1G8 AUTO FIRE
0016	272	2010	060080	S1G8 AUTO FIRE
0018	275	2013	060080	S1G8 AUTO FIRE
0019	277	2015	060080	S1G8 AUTO FIRE
0019	278	2016	060080	S1G8 AUTO FIRE
0021	282	2020	060080	S1G8 AUTO FIRE,S2G1 NO FIRE
0025	288	2026	060080	S1G8 AUTO FIRE
0026	290	2028	060080	S1G8 AUTO FIRE,S2G1 NO FIRE
0030	296	2034	060080	S1G8 AUTO FIRE

0030	297	2035	060080	S2G1 NO FIRE
0032	300	2038	060080	S1G8 AUTO FIRE
0032	301	2039	060080	S1G8 AUTO FIRE
0034	303	2041	060080	S2G1 NO FIRE
0034	304	2042	060080	S1G8 AUTO FIRE 239.2 MS
0037	309	2047	060080	S2G7 NO FIRE
0039	312	2050	060080	S2G1 NO FIRE
0041	315	2053	060080	S1G8 AUTO FIRE 202.4 MS
0043	319	2057	060080	S1G8 AUTO FIRE 3688.8 MS
0044	320	2058	060080	S1G8 AUTO FIRE 228.0 MS
0044	321	2059	060080	S1G8 AUTO FIRE 199.2 MS
0047	326	2064	060080	S2G7 NO FIRE
0048	328	2066	060080	S1G8 AUTO FIRE 9212.8 MS
0052	335	2073	060080	S1G8 AUTO FIRE 201.6 MS
0102	352	2090	060080	S2G10 NO FIRE
0106	360	2098	060080	S3G2 DELTA TIMING 2.4 MS
0108	363	2101	060080	S2G1 NO FIRE
0108	364	2102	060080	S2G1 NO FIRE
0112	371	2109	060080	S1G8 AUTO FIRE 220.8 MS
0113	373	2111	060080	S1G8 AUTO FIRE 193.6 MS
0125	394	2132	060080	S2G1,G9,G10 NO FIRE
0127	397	2135	060080	S2G1 NO FIRE
0130	401	2139	060080	S1G8 AUTO FIRE 2017.2 MS
0130	402	2140	060080	S1G8 AUTO FIRE 5408.8,S2G1 NO FIRE
0131	405	2143	060080	S2G1,G7 NO FIRE
0135	412	2150	060080	S2G1 NO FIRE
0136	417	2155	060080	S2G1 NO FIRE
0139	419	2157	060080	S1G8 AUTO FIRE 197.6 MS
0139	420	2158	060080	S1G8 AUTO FIRE 14036.8 MS
0140	421	2159	060080	S1G8 AUTO FIRE 1119.2 MS
0141	424	2162	060080	S1G8 AUTO FIRE 210.4 MS
0144	429	2167	060080	S2G6 NO FIRE
0146	433	2171	060080	S2G8,G9,G10 NO FIRE
0147	434	2172	060080	S1G8 AUTO FIRE 215.2 MS
0147	435	2173	060080	S1G8 AUTO FIRE 220.0 MS
0149	438	2176	060080	S1G8 AUTO FIRE 1178.4 MS
0152	444	2182	060080	S1G8 AUTO FIRE 219.2 MS
0155	449	2187	060080	S2G1 NO FIRE
0156	452	2190	060080	S1G8 AUTO FIRE 308.8 MS,S2G1 NO FIRE
0157	454	2192	060080	S1G8 AUTO FIRE 217.6 MS
0158	455	2193	060080	S1G8 AUTO FIRE 205.6 MS,S2G1 NO FIRE

0158	456	2194	060080	S1G8 AUTO FIRE 200.8 MS,S2G1,G9 NO FIRE
0159	457	2195	060080	S2G9,G10 NO FIRE
0203	465	2203	060080	S1G8 AUTO FIRE 200.0 MS
0210	477	2215	060080	S1G8 AUTO FIRE 295.2 MS,S2G7,G9 NO FIRE
0212	482	2220	060080	S3G1 NO FIRE
0212	482	2220	060080	S1G8 AUTO FIRE 200.0 MS,S2G1 NO FIRE
0219	494	2232	060080	S1G8 AUTO FIRE 5570.4 MS
0221	498	2236	060080	S1G8 DELTA TIMING AT 5.9 MS
0221	499	2237	060080	S1G8 DELTA TIMING AT -4.3 MS
0223	502	2240	060080	S2G8,G9,G10 NO FIRE
0224	504	2242	060080	S1G8 AUTO FIRE 199.2 MS
0227	509	2247	060080	S2G8,G9,G10 NO FIRE
0229	513	2251	060080	S2G8,G9,G10 NO FIRE
0229	514	2252	060080	S2G9 DELTA TIMING AT 6.2 MS
0230	516	2254	060080	S3G1 AUTO FIRE 134.4 MS
0235	526	2264	060080	S1G8 AUTO FIRE 1270.4 MS,S2G1 NO FIRE
0238	532	2270	060080	S2G6 NO FIRE
0239	533	2271	060080	S2G1,G10 NO FIRE
0239	534	2272	060080	S2G10 NO FIRE
0242	539	2277	060080	S1G8 AUTO FIRE 1160.0 MS
0243	542	2280	060080	S2G10 NO FIRE
0245	545	2283	060080	S3G1 NO FIRE
0254	562	2300	060080	S2G10 NO FIRE
0255	564	2302	060080	S2G9 NO FIRE,S2G10 delta timing at -5.7
0255	565	2303	060080	S2G9,G10 NO FIRE
0256	566	2304	060080	S2G10 NO FIRE
0258	571	2309	060080	S1G8 AUTO FIRE 204.8 MS
0259	573	2311	060080	S2G8,G9,G10,S3G1 NO FIRE
0302	578	2316	060080	S1G8 AUTO FIRE 1228.0 MS
0304	582	2320	060080	S1G8 AUTO FIRE 210.4 MS,S2G9,G10 NO FIRE
0310	594	2332	060080	S2G10 NO FIRE
0311	596	2334	060080	S2G9,G10 NO FIRE
0312	598	2336	060080	S2G8,G9,G10 NO FIRE
0325	622	2360	060080	S2G8,G9,G10 NO FIRE
0327	627	2365	060080	S2G6 NO FIRE
0329	630	2368	060080	S2G2 NO FIRE
0329	631	2369	060080	S2G02,8,9 no fire
0330	632	2370	060080	S2G8,G9 NO FIRE
0330	633	2371	060080	S2G2 NO FIRE
0333	638	2376	060080	S2G8,G9,G10 NO FIRE
0334	640	2378	060080	S3G1 AUTO FIRE 102.4 MS

0336	645	2383	060080	S2G8,S3G2 NO FIRE
0338	648	2386	060080	S1G8 AUTO FIRE 203.2 MS
0343	657	2395	060080	S2G9,10 no fire
0343	658	2396	060080	S2G8,G9,G10 NO FIRE
0345	662	2400	060080	S2G8,G9,G10 NO FIRE
0346	664	2402	060080	power cycle String 2
0348	667	2405	060080	S2G10 no fire
0349	670	2408	060080	S3G2 delta timing at -2.2 ms
0352	675	2413	060080	S3G2 no fire
0359	690	2428	060080	S2G9,G10 NO FIRE
0400	692	2430	060080	S2G9,G10 NO FIRE
0401	693	2431	060080	S2G9,G10 NO FIRE
0403	696	2434	060080	S2G8,G9,G10 NO FIRE
0404	698	2436	060080	S2G9,G10 NO FIRE
0405	700	2438	060080	REEL CHANGE 060080 to 060081
0408	707	2445	060081	S2G9,G10 NO FIRE
0409	708	2446	060081	S2G9,G10 NO FIRE
0409	709	2447	060081	S2G8 NO FIRE
0412	715	2453	060081	S2G8,G9,G10 NO FIRE
0421	731	2469	060081	S1G8 AUTO FIRE 31337 MS
0422	734	2472	060081	S2G1 NO FIRE
0427	742	2480	060081	S1G8 AUTO FIRE 1135 MS
0427	743	2481	060081	S1G8 AUTO FIRE 204 MS, S2G9,10 No fire
0428	744	2482	060081	S3G2 NO FIRE
0428	744	2482	060081	S2G8,G9,G10 NO FIRE
0431	750	2488	060081	S2G9 NO FIRE
0432	751	2489	060081	S2G6 NO FIRE
0438	763	2501	060081	S2G1 NO FIRE
0439	765	2503	060081	S2G8,G9 NO FIRE
0446	779	2517	060081	S3G1 AUTO FIRE 113 MS
0446	780	2518	060081	S3G1 AUTO FIRE 104 MS
0447	781	2519	060081	S2G8,G9,G10 NO FIRE
0448	783	2521	060081	S2G10 NO FIRE
0451	788	2526	060081	S2G9,G10 NO FIRE
0451	789	2527	060081	S2G9 NO FIRE
0452	791	2529	060081	S1G8 delta timing at 3.9 ms
0453	792	2530	060081	S1G8 delta timing at -3.0 ms
0455	796	2534	060081	S2G9,G10 NO FIRE
0457	801	2539	060081	S2G8,G10 NO FIRE
0459	805	2543	060081	S3G1 NO FIRE
0501	808	2546	060081	S2G9,G10 NO FIRE

0502	810	2548	060081	S1G8 AUTO FIRE 20491 MS
0504	813	2551	060081	S2G8,G9,G10 NO FIRE
0504	814	2552	060081	S1G8 AUTO FIRE 210 MS
0507	819	2557	060081	S3G1 NO FIRE
0509	823	2561	060081	S2G9,G10 NO FIRE
0509	824	2562	060081	S3G1 NO FIRE
0511	827	2565	060081	S3G2 NO FIRE
0511	828	2566	060081	S3G1 NO FIRE
0515	835	2573	060081	S2G9,G10 NO FIRE
0515	836	2574	060081	S3G1 NO FIRE
0517	840	2578	060081	S2G1 no fire
0520	843	2581	060081	S2G9,G10 NO FIRE
0521	846	2584	060081	S3G1 NO FIRE
0523	849	2587	060081	S1G8 auto fire 204
0524	853	2591	060081	S2G8,G9,G10 NO FIRE
0525	855	2593	060081	S2G10 NO FIRE
0527	858	2596	060081	S2G8,G9,G10 NO FIRE
0528	859	2597	060081	S1G8 delta timing 3.7 MS S2G9 no fire
0528	860	2598	060081	S1G8 Delta timing -2.8 ms S2G9 no fire
0530	863	2601	060081	S2G8,G9,G10 NO FIRE
0531	866	2604	060081	S2G10 NO FIRE
0532	867	2605	060081	S2G8,G9,G10 NO FIRE
0533	869	2607	060081	S2G8 Auto FIRE 204 ms
0538	878	2616	060081	S1G8 Auto fire 204 ms,
0538	879	2617	060081	S2G1 no fire
0539	880	2618	060081	S2G9,G10 NO FIRE
0540	883	2621	060081	S2G9,G10 NO FIRE
0542	885	2623	060081	S2G10 NO FIRE
0542	886	2624	060081	S2G9 NO FIRE
0544	890	2628	060081	S2G9 NO FIRE
0548	895	2633	060081	S2G6,G7 NO FIRE
0551	900	2638	060081	S2G9,G10 NO FIRE
0552	902	2640	060081	S2G9,G10 NO FIRE
0557	910	2648	060081	S2G10 NO FIRE
0557	911	2649	060081	S2G9 NO FIRE
0600	916	2654	060081	S2G8,9,G10 No Fire
0602	919	2657	060081	S2G8,9,10 No Fire
0602	920	2658	060081	S3G1 Auto Fire at 187.2ms
0605	923	2661	060081	S2G9,10 no fire
0605	924	2662	060081	S2G9,10 no fire
0607	926	2664	060081	S2G9,10 no fire S3G1 Auto Fire at 101.6ms

0607	927	2665	060081	S2G9 No Fire
0608	928	2666	060081	S3G1 No Fire
0610	931	2669	060081	S2G9,10 No fire
0611	933	2671	060081	S2G8,9,G10 No Fire
0612	934	2672	060081	S2G10 No fire
0612	935	2673	060081	S1G8 Auto Fire at 208.8ms S2G9,10 No fire
0613	936	2674	060081	S2G10 No fire
0613	937	2675	060081	S2G9,10 No fire
0614	938	2676	060081	S1G8 Auto Fire at 210.4ms S2G10 No Fire
0615	939	2677	060081	S3G1 Auto Fire at 121.6ms
0615	940	2678	060081	S1G8 Auto Fire at 201ms
0616	941	2679	060081	S2G8,9,G10 No Fire
0616	922	2660	060081	S2G8delta -7.2ms, S2G9,G10 No Fire
0617	923	2661	060081	S2G8delta 5.6ms
0619	946	2684	060081	S3G1 Auto Fire at 115 ms
0619	947	2685	060081	S3G1 Auto Fire at 117 ms
0621	949	2687	060081	S1G8 delta 6.2ms
0621	950	2688	060081	S1G8 auto fire 207ms, delta -4.7ms
0622	951	2689	060081	S2G7 No fire
0623	952	2690	060081	S2G9,G10 No Fire
0623	953	2691	060081	S2G9 No Fire
0625	955	2693	060081	S2G10, S3G1 No Fire
0627	958	2696	060081	S1G8 Auto Fire at 197.6ms S2G9,10 No Fire
0627	959	2697	060081	S2G9,10 No Fire
0628	960	2698	060081	S210 No Fire, S3G1 nofire
0631	965	2703	060081	S1G8 Delta 3.6ms
0632	966	2704	060081	S1G8 Delta -2.8ms
0633	968	2706	060081	S2G9,10 No Fire
0635	969	2707	060081	S1G8 Auto Fire at 224.0ms
0635	972	2710	060081	S2G9,10 No Fire
0636	973	2711	060081	S2G8,9,10 No Fire
0637	974	2712	060081	S1G8 Auto Fire at 204.8ms S3G1 Auto Fire at 112.8ms
0638	976	2714	060081	S3G1 Auto Fire at 114.4ms S2G8,9,10 No Fire
0638	977	2715	060081	S3G1,2 No Fire
0639	978	2716	060081	S1G8 Auto fire at 204.8ms S2G9,10 No Fire
0639	979	2717	060081	S3G1 Auto Fire at 120.8ms
0640	980	2718	060081	S2G9 No fire
0642	982	2720	060081	S3G1 No Fire
0643	984	2722	060081	S2G9,10 No Fire
0644	985	2723	060081	S2G9,10 No Fire
0644	986	2724	060081	S3G1 Auto Fire at 113.6ms

0644	987	2725	060081	S2G9,10 No Fire S3G1 Auto Fire at 117.6ms
0646	990	2728	060081	S2G9,10 No Fire
0650	997	2735	060081	S2G9,10 No Fire
0651	999	2737	060081	S2G9,10 No Fire
0652	1001	2739	060081	S3G1 No Fire
0653	1002	2740	060081	S2G6 No Fire
0657	1009	2747	060081	S3G1 Auto Fire at 113.6ms
0659	1013	2751	060081	S2G10 No Fire
0700	1015	2753	060081	S2G9,10 S3G1,2 No Fire
0702	1018	2756	060081	S1G8 Auto Fire at 203.2ms
0703	1020	2758	060081	S2G8,9,10 No Fire
0705	1023	2761	060081	S2G09 10 no fire
0705	1024	2762	060081	S2G09 10 no fire
0708	1023	2761	060081	S2G09 no fire
0709	1030	2768	060081	S2G09 10 no fire
0710	1032	2770	060081	S2G08 09 10 no fire
0712	1035	2773	060081	S2G09 10 no fire
0713	1037	2775	060081	S2G09 no fire S2G10 delta -6.9ms
0713	1038	2776	060081	S2G10 no fire
0714	1039	2777	060081	S2G10 delta 5.6ms
0716	1042	2780	060081	S2G10 no fire
0718	1045	2783	060081	S2G09 10 no fire
0718	1046	2784	060081	S2G08 09 10 no fire S1G08 delta200ms
0719	1048	2786	060081	S2G10 no fire
0720	1050	2788	060081	S2G08 09 10 no fire
0723	1055	2793	060081	S1G08 delta 224.8ms
0724	1057	2795	060081	S2G09 10 no fire
0726	1059	2797	060081	S1G08 delta 3.9ms
0726	1060	2798	060081	S1G08 delta -2.9ms
0727	1062	2800	060081	S2G09 delta -5.1ms S2G10 no fire
0727	1063	2801	060081	S2G9 No Fire
0728	1064	2802	060081	S2G9 delta 4.2ms S3G1 Auto Fire at 113.6ms
0729	1065	2803	060081	S2G9,10 No Fire
0732	1070	2808	060081	S2G9 No Fire S3G2 delta2.1ms
0733	1071	2809	060081	S2G9,10 No Fire
0734	1073	2811	060081	S2G9,10 No Fire
0735	1076	2814	060081	S2G8,9,10 No Fire
0736	1077	2815	060081	S1G08 delta 3.2 S2G09 no fire
0736	1078	2816	060081	S1G08 delta -2.4ms
0738	1081	2819	060081	S2G8,9,10 No Fire
0739	1082	2820	060081	S2G9,10 No Fire

0739	1083	2821	060081	S1G08 delta4. 4ms S2G07080910no fire
0740	1084	2822	060081	S1G08 delta -3.3ms S3G01 no fire
0740	1085	2823	060081	S2G10 no fire
0741	1086	2824	060081	S1G08 auto fire 207.sms S3G01 auto fire 116.8ms
0744	1091	2829	060081	S2G08 09 10 no fire
0745	1092	2830	060081	S2G09 no fire
0746	1094	2832	060081	S1G08 delta 209.6 ms
0746	1095	2833	060081	S2G09 10 no fire
0747	1096	2834	060081	S2G10 no fire
0748	1097	2835	060081	S3G01 NO FIRE
0749	1099	2837	060081	S2G10 no fire
0749	1100	2838	060081	S3G01 NO FIRE
0750	1101	2839	060081	S1G08 auto fire 201.6
0751	1103	2841	060081	S1G08 auto fire 208.0ms S2G10 no fire S3G1 no fire
0754	1107	2845	060081	S2G09 no fire
0755	1109	2847	060081	S2G10 no fire S3G01 nofire
0757	1112	2850	060081	S3G01 auto fire 114.4ms
0759	1116	2854	060081	S2G09 10 no fire
0800	1117	2855	060081	S2G10 nofire
0801	1118	2856	060081	S1G08 auto fire 196.8ms
0806	1126	2864	060081	S2G9,10 No Fire
0807	1128	2866	060081	S2G9,10 No Fire
0816	1142	2880	060081	S2G08,09,10 o fire
0816	1143	2881	060081	S2G09,10 No fire
0817	1144	2882	060081	S1G08 Auto fire at 208.8 ms
0818	1146	2884	060081	S1G08 Auto fire at 209.6 ms
0822	1152	2890	060081	S2G09,10 No fire
0823	1154	2892	060081	S2G10 No fire
0828	1161	2899	060081	S2G10 No fire
0834	1171	2909	060081	S2G9 No fire
0836	1174	2912	060081	S2G10 No fire
0837	1176	2914	060081	S2G10 No fire
0837	1177	2915	060081	S2G09,10 No fire
0839	1180	2918	060081	S2G10 No fire
0840	1181	2919	060081	S2G10 No fire
0842	1184	2922	060081	S2G10 Delta -6.6 ms
0842	1185	2923	060081	S2G10, S3G1 No Fire
0843	1186	2924	060081	S2G07,08,09,10 No fire
0843	1187	2925	060081	S2G10 Delta 5.1 ms
0850	1198	2936	060081	S2G10 No fire
0851	1200	2938	060081	S2G09,10 No fire

0855	1207	2945	060081	S2G09 No fire
0856	1208	2946	060081	S3G01 No fire
0859	1213	2951	060081	S2G08,09,10 No fire
0900	1215	2953	060081	S1G08 Delta 6.3 ms
0900	1216	2954	060081	S1G08 Delta -4.8 ms; S2G08 No fire
0902	1219	2957	060081	S3G02 Delta -2.2 ms
0904	1222	2960	060081	S2G10 No fire
0905	1223	2961	060081	S2G10 No fire
0908	1228	2966	060081	S2G09,10 No fire
0910	1232	2970	060081	S2G09,10 No fire
0912	1236	2974	060081	S2G09,10 No fire
0921	1250	2988	060081	S2G10 Delta -6.7 ms
0921	1251	2989	060081	S2G10 Delta 5.0 ms
0922	1252	2990	060081	S3G01 No fire
0924	1255	2993	060081	S2G09,10 No fire
0925	1258	2996	060081	S2G08,09,10 No fire
0928	1262	3000	060081	S3G01 No fire
0928	1263	3001	060081	S2G09,10 No fire
0930	1266	3004	060081	S3G01 No fire
0931	1267	3005	060081	S2G09 Delta -5.3 ms; S2G10 No fire
0931	1268	3006	060081	S2G08,09,10; S3G03 No fire
0932	1269	3007	060081	S2G09 Delta 4.2 ms
0933	1272	3010	060081	S2G10 NO FIRE
0935	1275	3013	060081	S2G10 NO FIRE
0938	0939	3018	060081	S2G10 NO FIRE
0946	1295	3033	060081	S2G9 COMM ERROR
0952	1305	3043	060081	S3G01 NO FIRE
0955	1311	3049	060081	S2G09 NO FIRE
0956	1313	3051	060081	S2G09/10 NO FIRE
0957	1314	3052	060081	S2G08 NO FIRE
0958	1316	3054	060081	S2G07 AUTO FIRE 203.2ms
1002	1323	3061	060081	S2g08/09/10 no fire
1003	1326	3064	060081	S2G09/10 NO FIRE
1004	1328	3066	060081	s2g10 no fire
1005	1329	3067	060081	S2G09/10 NO FIRE
1005	1330	3068	060081	S2g08/09/10 no fire
1006	1332	3070	060081	S2G09/10 NO FIRE
1007	1334	3072	060081	S2g08/09/10 no fire
1009	1337	3075	060081	s2g07/08/09/10 no fire
1010	1338	3076	060081	S2g08/09/10 no fire
1010	1339	3077	060081	s2g9 no fire

1011	1341	3079	060081	s2g9 no fire
1012	1342	3080	060081	S2g08/09/10 no fire
1013	1344	3082	060081	s2g10 no fire
1014	1346	3084	060081	S2G09/10 NO FIRE
1015	1348	3086	060081	S2g08/09/10 no fire
1015	1349	3087	060081	S2G09/10 NO FIRE
1017	1353	3091	060081	S2G09/10 NO FIRE
1018	1354	3092	060081	s2g07/08/09/10 no fire
1019	1355	3093	060081	S2g08/09/10 no fire
1021	1359	3097	060081	S2G09/10 NO FIRE
1022	1360	3098	060081	S2G09/10 NO FIRE
1022	1361	3099	060081	S2G09/10 NO FIRE
1023	1363	3101	060081	s3g01 auto fire 337.6ms
1024	1366	3104	060081	S2G09/10 NO FIRE
1025	1370	3108	060081	s2g01/08/09/10 no fire
1027	1371	3109	060081	S2G09/10 NO FIRE
1028	1372	3110	060081	s2g10 no fire
1028	1373	3111	060081	S2G09/10 NO FIRE
1029	1374	3112	060081	S2G08 NO FIRE
1030	1376	3114	060081	S2G07,09,10 no fire
1031	1379	3117	060081	S1G08 Auto fire at 202.4 ms
1033	1382	3120	060081	S1G08 Auto fire at 2672.8 ms S2G09 no fire
1034	1384	3122	060081	S2G09,10 no fire
1035	1387	3125	060081	S2G08,09,10 no fire
1036	1389	3127	060081	S2G08,09,10 no fire
1037	1390	3128	060081	S2G10 no fire
1039	1395	3133	060081	S2G09 no fire
1040	1396	3134	060081	S2G09 no fire
1041	1397	3135	060081	S2G10 no fire
1041	1398	3136	060081	S2G10 no fire
1042	1400	3138	060081	S2G09,10 no fire Change reel 060081 to 060082
1043	1401	3139	060082	S2G09 no fire
1044	1404	3142	060082	S2G09,10 no fire
1045	1405	3143	060082	S2G10 no fire
1047	1409	3147	060082	S2G10 no fire
1048	1411	3149	060082	S2G08 no fire
1048	1412	3150	060082	S2G09 no fire
1049	1413	3151	060082	S2G07,08,09,10 no fire
1049	1414	3152	060082	S2G09 no fire
1050	1416	3154	060082	S2G08,09,10 no fire
1051	1418	3156	060082	S2G09,10 no fire

1053	1422	3160	060082	S2G09,10 no fire
1054	1424	3162	060082	S2G01,09,10 no fire
1058	1431	3169	060082	S2G08,09,10 no fire
1058	1432	3170	060082	S2G07,08,09,10 no fire
1059	1434	3172	060082	S2G07 auto fire
1059	1435	3173	060082	S2G9, delta timing -7 ms S2G10 no fire
1100	1436	3174	060082	S2G09 delta timing 5.8 ms
1101	1438	3176	060082	S2G09,10 no fire
1102	1439	3177	060082	S2G10 no fire
1104	1443	3181	060082	S2G8 auto fire
1104	1444	3182	060082	S2G09,10 no fire
1106	1447	3185	060082	S2G08,09,10 no fire
1108	1451	3189	060082	S2G09 no fire
1109	1454	3192	060082	S2G08,09,10 no fire
1110	1455	3193	060082	S1G8 auto fire S2G09 no fire
1110	1456	3194	060082	S1G8 auto fire S2G10 no fire
1112	1459	3197	060082	S2G08,09,10 no fire
1113	1461	3199	060082	S1G8 delta timing 3.7 ms
1113	1462	3200	060082	S1G8 delta timing -2.7 ms
1114	1463	3201	060082	S2G08,09,10 no fire
1114	1464	3202	060082	S2G8 auto fire S2G09,10 no fire
1115	1465	3203	060082	S2G10 no fire
1115	1466	3204	060082	S2G09,10 no fire
1116	1467	3205	060082	S2G08,09,10 no fire
1116	1468	3206	060082	S1G8 auto fire
1119	1474	3212	060082	S2G09,10 no fire
1120	1476	3214	060082	S2G07,09,10 no fire
1121	1479	3217	060082	S2G09,10 no fire
1122	1481	3219	060082	S2G09,10 no fire
1123	1483	3221	060082	S1G8 delta timing 3.8 ms
1124	1484	3222	060082	S1G8 delta timing -3.0 ms
1124	1485	3223	060082	S2G09,10 no fire
1125	1486	3224	060082	S2G08,09,10 no fire
1125	1487	3225	060082	S2G10 no fire
1126	1488	3226	060082	S2G08,09,10 no fire
1126	1489	3227	060082	S2G09 no fire
1127	1491	3229	060082	S2G08,09,10 no fire
1128	1492	3230	060082	S2G09,10 no fire
1129	1494	3232	060082	S2G08,09,10 no fire
1129	1495	3233	060082	S2G09,10 no fire
1130	1496	3234	060082	S3G1 delta timing -5.2 ms

1130	1497	3235	060082	S2G09,10 no fire S3G1 delta timing 3.6 ms
1132	1501	3239	060082	s2g8/9/10 no fire
1135	1506	3244	060082	s2g8/9/10 no fire
1137	1512	3250	060082	s2g8/9/10 s3g01 no fire
1138	1513	3251	060082	s2g8/9/10 no fire
1138	1514	3252	060082	s2g8/9/10 no fire
1139	1516	3254	060082	s2g10 no fire
1141	1519	3257	060082	s2g10 no fire
1142	1521	3259	060082	s2g9/10 no fire
1143	1524	3262	060082	s2g10 no fire
1147	1532	3270	060082	s2g9/10 no fire
1148	1535	3273	060082	s2g10 no fire
1149	1536	3274	060082	S3G01 NO FIRE
1153	1545	3283	060082	S3G01 NO FIRE
1157	1553	3291	060082	s1g08/s3g01 Delta 3.5 ms
1157	1554	3292	060082	s1g08 Delta -2.7 ms
1158	1556	3294	060082	S2g08/09/10 no fire
1159	1559	3297	060082	S2G09/10 NO FIRE
1200	1561	3299	060082	S2G09/10 NO FIRE
1202	1564	3302	060082	s2g10 no fire
1203	1567	3305	060082	s2g9/10 no fire
1204	1570	3308	060082	s2g9/10/s3gl no fire
1205	1571	3309	060082	s2g10 no fire
1206	1573	3311	060082	s2g9/10 no fire
1206	1574	3312	060082	s2g10 no fire
1207	1575	3313	060082	s2g9/10 no fire
1208	1577	3315	060082	s1g8 auto fire ,s2g10 no fire
1208	1578	3316	060082	S3G1 No Fire
1210	1582	3320	060082	s2g8/9/10 no fire
1211	1584	3322	060082	s1g8 delta 3.0 ms,s2g8/9/10 no fire
1211	1585	3323	060082	s1g8 delta -2.1 ms
1212	1586	3324	060082	S3G1 No Fire
1212	1587	3325	060082	S1G8 AUTO FIRE,S2G8/9/10 NO FIRE
1213	1588	3326	060082	s2g8/9/10 no fire
1213	1589	3327	060082	s2g7 auto fire,s2g9/10 no fire
1214	1591	3329	060082	S3G1 No Fire
1215	1593	3331	060082	S2G1 no fire
1215	1594	3332	060082	s2g1/9/10 no fire
1216	1596	3334	060082	s2g10 no fire
1217	1597	3335	060082	s2g9/10 no fire
1218	1600	3338	060082	s2g9/10,s3gl no fire

1219	1601	3339	060082	S2G8 NO FIRE
1219	1602	3340	060082	s3g1 no fire
1220	1603	3341	060082	s1g8 auto fire,s2g9/10 no fire
1220	1604	3342	060082	s2g9 no fire
1221	1606	3344	060082	s2g8/9/10 no fire
1222	1608	3346	060082	S1G8 AUTO FIRE,S2G1 NO FIRE
1223	1610	3348	060082	s2g9/10 no fire
1224	1613	3351	060082	s2g1/7 no fire
1225	1615	3353	060082	S2G1 no fire
1226	1616	3354	060082	s2g1/10 no fire
1226	1618	3356	060082	s2g1/9/10 no fire
1227	1620	3358	060082	S2G1 no fire
1228	1622	3360	060082	S1G8 AUTO FIRE,S2G1 NO FIRE
1229	1623	3361	060082	S2G1 no fire
1229	1624	3362	060082	S2G1 no fire
1233	1632	3370	060082	s1g8 auto fire,s2g9/10 no fire
1234	1635	3373	060082	s1g8 auto fire,s2g10 no fire
1235	1636	3374	060082	s1g8 auto fire
1235	1638	3376	060082	S2G1 no fire
1237	1641	3379	060082	S1G8 AUTO FIRE,S2G1 NO FIRE
1238	1643	3381	060082	S2G1 no fire
1238	1644	3382	060082	s1g8 auto fire,s2g9/10 no fire
1239	1645	3383	060082	s1g8 delta 3.5 ms
1239	1646	3384	060082	s1g8 delta -2.7 ms
1240	1648	3386	060082	S2G1 no fire
1240	1649	3387	060082	s2g8/9/10 no fire, turned off auto fire detection on S1G8, 33 out of 33 were OK.
1242	1653	3391	060082	S2G1 no fire
1243	1655	3393	060082	s2g9/10 no fire
1244	1657	3395	060082	s2g8/9/10 no fire
1246	1661	3399	060082	s3g3 no fire
1247	1663	3401	060082	s2g9/10 no fire
1247	1665	3403	060082	S2G1 no fire
1248	1667	3405	060082	s2g10 no fire
1249	1669	3407	060082	s2g10 no fire
1250	1671	3409	060082	s2g1/7/10 no fire
1252	1675	3413	060082	s2g9/10 no fire
1252	1676	3414	060082	s3g3 no fire
1253	1677	3415	060082	s2g8/9/10,s3g3 no fire
1254	1679	3417	060082	s2g10 no fire
1254	1680	3418	060082	s3g3 no fire
1255	1681	3419	060082	s2g8/9/10 no fire

1255	1682	3420	060082	S2G1 no fire
1256	1683	3421	060082	s2g1 no fire,s3g2 delta 2.1 ms
1257	1686	3424	060082	s3g4 no fire
1258	1688	3426	060082	s2g1 no fire
1258	1689	3427	060082	s2g6/9/10 no fire
1300	1692	3430	060082	s3g3 no fire
1300	1693	3431	060082	s1g8 delta 3.7 ms,s2g7/8/9/10 no fire
1300	1694	3432	060082	s1g8 delta -2.8 ms
1301	1695	3433	060082	s3g3/4 no fire
1301	1696	3434	060082	s2g1/7/9/10,s3g3 no fire
1302	1698	3436	060082	s2g9/10,s3g3/4 no fire
1303	1699	3437	060082	s2g8/9/10,s3g3/10 no fire
1303	1700	3438	060082	s2g10,s3g3 no fire
1303	1701	3439	060082	s3g3/7 no fire
1304	1703	3441	060082	s2g9 no fire
1305	1704	3442	060082	s2g10 no fire
1305	1705	3443	060082	s3g3 no fire
1306	1707	3445	060082	s3g3 no fire
1306	1708	3446	060082	s3g3/4 no fire
1307	1709	3447	060082	s2g8 auto fire
1307	1710	3448	060082	s2g10,s3g3 no fire
1308	1711	3449	060082	s2g9/10,s3g3 no fire
1308	1712	3450	060082	s3g3 no fire
1309	1713	3451	060082	s3g3/4,s3g8 no fire
1309	1714	3452	060082	s3g3/4 no fire
1309	1715	3453	060082	s2g9 no fire
1310	1716	3454	060082	s2g1/8/9/10 no fire
1311	1718	3456	060082	s3g3 no fire
1312	1721	3459	060082	s2g1/10 no fire
1312	1722	3460	060082	s2g10 delta -5.4 ms
1313	1723	3461	060082	s2g9/10 no fire
1313	1724	3462	060082	s2g9/10 no fire
1314	1725	3463	060082	s2g10 no fire
1314	1726	3464	060082	s2g10 delta 4.4 ms
1314	1727	3465	060082	s2g8 auto fire
1315	1729	3467	060082	s2g9,s3g3 no fire
1316	1730	3468	060082	s2g9/10,s3g3/4 no fire
1317	1732	3470	060082	s2g10 auto fire ,s3g3 no fire
1317	1733	3471	060082	s2g10 no fire
1317	1734	3472	060082	s2g1,s3g3 no fire
1318	1735	3473	060082	s2g9/10 no fire

1318	1736	3474	060082	s2g10 no fire
1319	1737	3475	060082	s2g10,s3g3 no fire
1319	1739	3477	060082	s2g8/9/10 no fire
1320	1740	3478	060082	s2g9/10,s3g8/9/10 no fire
1322	1744	3482	060082	s2g1/10 no fire
1322	1746	3484	060082	s3g3 no fire
1323	1747	3485	060082	s3g8 no fire
1323	1748	3486	060082	s2g9/10,s3g3 no fire
1324	1751	3489	060082	s2g10 no fire
1325	1753	3491	060082	s2g9/10,s3g4 no fire
1326	1754	3492	060082	s2g9 no fire
1326	1755	3493	060082	s3g3/4 no fire
1328	1759	3497	060082	s2g8/9/10 no fire
1329	1763	3501	060082	S2G8 NO FIRE
1330	1765	3503	060082	s2g10 no fire
1331	1766	3504	060082	s2g9/10 no fire
1331	1767	3505	060082	s2g10 no fire
1332	1769	3507	060082	s2g8/9/10 no fire
1332	1770	3508	060082	s3g4/5 no fire
1334	1774	3512	060082	s3g3 no fire
1334	1775	3513	060082	s2g9/10 no fire
1335	1776	3514	060082	s3g4 no fire
1335	1777	3515	060082	s1g8 delta 3.5 ms,s3g3/4 no fire
1335	1778	3516	060082	s1g8 delta -2.6 ms
1337	1781	3519	060082	s2g10 no fire
1337	1782	3520	060082	s1g8 delta 6.4 ms
1338	1783	3521	060082	s1g8 delta -4.7 ms,s2g10 no fire
1340	1789	3527	060082	s2g9/10 no fire
1341	1791	3529	060082	s2g9/10 no fire
1343	1795	3533	060082	s2g9/10 no fire
1344	1798	3536	060082	s2g9/10 no fire
1344	1799	3537	060082	s1g8 delta 3.8 ms,s2g9/10,s3g3 no fire
1345	1800	3538	060082	s1g8 delta -3.0 ms,s2g7 auto fire,s3g3 no fire
1345	1801	3539	060082	s2g9/10 no fire
1346	1802	3540	060082	s2g9/10,s3g3/4 no fire
1346	1803	3541	060082	s2g9/10 no fire
1346	1804	3542	060082	s2g9/10 no fire
1347	1806	3544	060082	s2g1 no fire
1348	1808	3546	060082	s2g10 auto fire
1348	1809	3547	060082	s1g8 delta 4.0 ms,s2g9/10 no fire
1349	1810	3548	060082	s1g8 delta -3.1 ms,s2g8/9/10 no fire

1349	1811	3549	060082	s2g9/10 no fire
1350	1813	3551	060082	s2g9/10 no fire
1352	1819	3557	060082	s2g1 no fire
1353	1820	3558	060082	s2g8/9/10 no fire
1354	1823	3561	060082	s2g9/10 no fire
1354	1824	3562	060082	s2g8/9 no fire
1355	1825	3563	060082	s2g9/10 no fire
1355	1826	3564	060082	s2g7/8/9/10 no fire
1356	1828	3566	060082	s2g8/9/10 no fire
1356	1829	3567	060082	s2g8/9/10 no fire
1357	1830	3568	060082	s3g3 no fire
1357	1831	3569	060082	s1g8 delta 3.8 ms,s3g3/4 no fire
1358	1832	3570	060082	s1g8 delta -2.9 ms
1358	1833	3571	060082	s2g8/9/10 no fire
1359	1834	3572	060082	s2g7/8/9/10 no fire
1359	1835	3573	060082	s2g8/9/10 no fire
1400	1837	3575	060082	s2g8/9/10,s3g1 no fire
1400	1838	3576	060082	s2g9/10,s3g1 no fire
1401	1839	3577	060082	s2g10 no fire
1401	1841	3579	060082	s2g9 no fire
1403	1844	3582	060082	s2g8/9/10 no fire
1403	1846	3584	060082	s2g1 no fire
1404	1847	3585	060082	s2g1 no fire
1404	1848	3586	060082	s2g1 no fire
1405	1849	3587	060082	s2g8/1 no fire
1405	1850	3588	060082	s2g9/10 no fire
1406	1851	3589	060082	S2G9 DELTA TIMING AT 5.6 MS
1407	1854	3592	060082	s2g9/10 no fire
1407	1855	3593	060082	s2g9/10 no fire
1408	1857	3595	060082	s2g9/10 no fire
1408	1858	3596	060082	s3g4 no fire
1410	1861	3599	060082	S1G8 DELTA TIMING AT 3.7 MS
1411	1862	3600	060082	S1G8 DELTA TIMING AT -2.7 MS
1411	1863	3601	060082	S1G8 DELTA TIMING AT -2.7 MS
1411	1864	3602	060082	S1G8 DELTA TIMING AT -2.7 MS,s2g10 no fire
1411	1865	3603	060082	s2g7 no fire
1412	1866	3604	060082	s2g10 no fire
1413	1869	3607	060082	s2g1/9/10 no fire
1415	1873	3611	060082	s2g1/9 no fire
1416	1875	3613	060082	s2g1 no fire
1416	1876	3614	060082	s2g1 no fire

1416	1877	3615	060082	s2g9/10 no fire
1417	1878	3616	060082	s2g1 no fire
1419	1882	3620	060082	s2g8 no fire
1419	1883	3621	060082	s2g9/10 s3g3 no fire
1420	1885	3623	060082	s2g9/10 no fire
1420	1886	3624	060082	s3g3 no fire
1421	1887	3625	060082	s3g3/4 no fire,S1G8 DELTA TIMING AT 3.7 MS
1421	1888	3626	060082	S1G8 DELTA TIMING AT -2.7 MS
1422	1890	3628	060082	s2g10 no fire
1422	1891	3629	060082	s3g3 no fire
1423	1893	3631	060082	s2g10 no fire
1424	1894	3632	060082	s2g8/9/10 no fire
1425	1896	3634	060082	s2g9/10 no fire
1426	1899	3637	060082	s2g9 no fire
1427	1901	3639	060082	s2g1 no fire
1428	1903	3641	060082	s2g10 no fire
1428	1904	3642	060082	s2g10 no fire
1428	1905	3643	060082	s2g8 no fire
1429	1906	3644	060082	s2g9 no fire
1430	1910	3648	060082	s2g7/9/10 no fire
1431	1911	3649	060082	s2g1 no fire
1431	1912	3650	060082	s2g10 no fire
1433	1915	3653	060082	s2g8/9/10 no fire
1433	1917	3655	060082	s2g9/10 no fire
1434	1918	3656	060082	s2g9/10 no fire
1435	1922	3660	060082	S1G8 DELTA TIMING AT 3.2 MS
1436	1923	3661	060082	S1G8 DELTA TIMING AT -2.3 MS
1436	1924	3662	060082	s2g1/9/10 no fire
1438	1928	3666	060082	s2g8/9/10 no fire
1439	1930	3668	060082	s2g10 no fire
1439	1932	3670	060082	s2g1 no fire
1440	1934	3672	060082	s3g3 no fire
1441	1937	3675	060082	s2g8/9/10 no fire
1443	1940	3678	060082	s2g10 no fire
1443	1942	3680	060082	s2g1/10 no fire
1446	1948	3686	060082	s3g3 no fire
1447	1950	3688	060082	s2g1 no fire
1448	1953	3691	060082	s2g1 no fire
1448	1954	3692	060082	s2g1 no fire
1453	1966	3704	060082	s2g9 no fire
1453	1967	3705	060082	s2g8/9/10 no fire

1454	1968	3706	060082	s2g9/10 no fire
1454	1970	3708	060082	s2g10 s3g3 no fire
1455	1971	3709	060082	s2g8/9/10 no fire
1455	1972	3710	060082	s2g8/9/10 no fire
1456	1974	3712	060082	s2g9/10 no fire
1456	1975	3713	060082	s2g8/9/10 no fire
1457	1978	3716	060082	s2g1/9/10 no fire
1458	1980	3718	060082	s2g9/10 no fire
1459	1981	3719	060082	s2g8/9/10 no fire
1459	1982	3720	060082	s2g8/9/10 no fire
1500	1984	3722	060082	s2g8/9/10 no fire
1501	1986	3724	060082	s2g1 no fire
1501	1987	3725	060082	s2g8/9/10,s3g1 no fire
1502	1989	3727	060082	s2g10,s3g4 no fire
1502	1990	3728	060082	s2g9 no fire
1503	1992	3730	060082	s3g1/3 no fire
1503	1993	3731	060082	s2g9/10 no fire
1504	1994	3732	060082	s3g3 no fire
1504	1995	3733	060082	s2g1,s3g3 no fire
1504	1996	3734	060082	s3g3 no fire
1505	1997	3735	060082	s2g1,s3g3/4 no fire
1505	1998	3736	060082	s2g8/9/10 no fire
1506	2000	3738	060082	s2g9,s3g4 no fire
1507	2002	3740	060082	s2g9 no fire
1507	2003	3741	060082	s3g2 no fire
1507	2004	3742	060082	s3g1 no fire
1508	2005	3743	060082	s2g8 no fire
1508	2006	3744	060082	S1G8 DELTA TIMING AT 3.6 MS
1509	2007	3745	060082	S1G8 DELTA TIMING AT -2.6 MS
1509	2009	3747	060082	s2g8/9/10,s3g3 no fire
1510	2011	3749	060082	s2g10 no fire
1512	2015	3753	060082	s2g10 no fire
1513	2019	3757	060082	s2g9/10 no fire
1514	2020	3758	060082	s3g3 no fire
1514	2022	3760	060082	s2g9/10 no fire
1516	2027	3765	060082	s2g9/10 no fire
1516	2028	3766	060082	s2g1 no fire
1517	2029	3767	060082	s2g9/10 no fire
1518	2032	3770	060082	s2g10 no fire
1518	2033	3771	060082	s1g8,s2g8/9/10,s3g3/g4 no fire
1519	2034	3772	060082	s2g8/9/10 no fire

1519	2035	3773	060082	s2g10 no fire
1519	2036	3774	060082	s2g8 no fire
1520	2037	3775	060082	s2g1,s3g3 no fire
1520	2038	3776	060082	s2g10 no fire
1521	2039	3777	060082	s2g8/9/10 no fire
1521	2041	3779	060082	s2g8/9/10 no fire
1522	2044	3782	060082	S1G8 DELTA TIMING AT 3.5 MS
1523	2045	3783	060082	S1G8 DELTA TIMING AT -2.3 MS
1525	2050	3788	060082	s3g3 no fire
1525	2051	3789	060082	s2g9/10 no fire
1525	2052	3790	060082	s2g9/10 no fire
1526	2054	3792	060082	s2g10DELTA TIMING AT -5.6 MS,s3g3 no fire
1527	2055	3793	060082	s2g10DELTA TIMING AT 4.5 MS,s3g3 no fire
1527	2056	3794	060082	s2g9/10 no fire
1527	2057	3795	060082	s2g9/10 no fire
1528	2058	3796	060082	s3g3 no fire
1528	2059	3797	060082	s2g8/10,s3g2/3 no fire
1528	2060	3798	060082	s3g3 no fire
1529	2061	3799	060082	s3g3 no fire
1529	2062	3800	060082	s2g7/8/9/10 no fire
1530	2063	3801	060082	s1g8 DELTA TIMING AT 4.1 MS,s2g10 no fire
1530	2064	3802	060082	s1g8 DELTA TIMING AT -3.1 MS
1531	2068	3806	060082	s3g3 no fire
1532	2069	3807	060082	s2g1/10 no fire
1532	2070	3808	060082	s2g1,s3g4/5 no fire
1533	2071	3809	060082	s3g3 no fire
1533	2073	3811	060082	s2g10 no fire
1534	2076	3814	060082	s2g10 no fire
1536	2079	3817	060082	s2g9/10 no fire
1536	2080	3818	060082	s2g9/10 no fire
1538	2084	3822	060082	s3g3 no fire
1539	2088	3826	060082	s2g8/9/10 no fire
1539	2089	3827	060082	s2g9/10 no fire
1540	2090	3828	060082	s2g10 no fire
1540	2091	3829	060082	s1g8 DELTA TIMING AT 4.1 MS
1541	2092	3830	060082	s1g8 DELTA TIMING AT -3.1 MS
1541	2094	3832	060082	s2g1,s3g4/3 no fire
1542	2095	3833	060082	s2g7/9/10,s3g7/8 no fire
1542	2096	3834	060082	s2g1/10,s3g1/3 no fire
1542	2097	3835	060082	s2g8/9/10,s3g4/5 no fire
1543	2098	3836	060082	s3g4 no fire

1544	2101		060083	REEL CHANGE 060082 to 060083
1545	2104	3842	060083	s2g10 no fire
1545	2105	3843	060083	s2g7/8/9/10,s3g3/5/6 no fire
1547	2108	3846	060083	s1g8 DELTA TIMING AT 7.2 MS
1547	2109	3847	060083	s1g8 DELTA TIMING AT -5.2 MS
1547	2110	3848	060083	s2g9/10 no fire
1548	2111	3849	060083	s2g9/10,s3g3 no fire
1549	2115	3853	060083	s3g3/4 no fire
1550	2117	3855	060083	s3g3/4/5 no fire
1550	2118	3856	060083	s2g10 no fire
1551	2119	3857	060083	s3g3 no fire
1551	2120	3858	060083	s3g3/4 no fire
1551	2121	3859	060083	s2g9/10,s3g3 no fire
1552	2122	3860	060083	s2g10 no fire
1553	2124	3862	060083	s3g3 no fire
1553	2126	3864	060083	s3g3 no fire
1554	2127	3865	060083	s2g9/10 no fire
1554	2128	3866	060083	s3g4 no fire
1555	2129	3867	060083	s3g3 no fire
1555	2130	3868	060083	s2g9/10 no fire
1555	2131	3869	060083	s2g10,s3g3 no fire
1556	2132	3870	060083	s3g3/4 no fire
1557	2135	3873	060083	s3g3/4 no fire
1557	2136	3874	060083	s2g8/9/10,s3g3 no fire,s3g2 DELTA TIMING AT -2.1 MS
1559	2139	3877	060083	s3g3/4/6 no fire,s1g8 DELTA TIMING AT 3.7 MS
1559	2140	3878	060083	s1g8 DELTA TIMING AT -2.9 MS
1600	2142	3880	060083	s3g3/4 no fire
1600	2143	3881	060083	s3g3/4 no fire
1601	2145	3883	060083	s3g03 no fire
1602	2147	3885	060083	s2g9/10 no fire
1602	2148	3886	060083	s3g3/4 no fire
1603	2149	3887	060083	s3g3 no fire
1604	2153	3891	060083	s2g01 no fire
1606	2156	3894	060083	s3g03 04 10 no fire
1606	2157	3895	060083	s3g03 04 no fire
1606	2158	3896	060083	S3g01 04 no fire
1608	2161	3899	060083	s3g03 no fire
1609	2163	3901	060083	s2g10 s3g3 no fire
1609	2164	3902	060083	s3g03 no fire
1609	2165	3903	060083	s3g03 no fire
1610	2166	3904	060083	S2g09 s2g10 s3g03 s3g04 no fire

1611	2170	3908	060083	s2g1 s3g1 no fire
1612	2172	3910	060083	s2g10 no fire
1613	2174	3912	060083	s2g8 9 10 no fire
1616	2180	3918	060083	s2g9 no fire
1618	2185	3923	060083	s2g8 9 10 no fire
1619	2188	3926	060083	s2g07 no fire
1620	2190	3928	060083	s2g01 no fire
1623	2198	3936	060083	s2g01 no fire
1623	2199	3937	060083	s2g01 no fire
1623	2200	3938	060083	s2g9 g10 no fire
1627	2210	3948	060083	s3g3 no fire
1628	2211	3949	060083	s3g1 no fire
1629	2212	3950	060083	s3g3 no fire
1630	2217	3955	060083	s2g9 10 no fire
1632	2222	3960	060083	s3g7 no fire
1632	2232	3970	060083	s2g7 8 9 10 no fire
1637	2234	3972	060083	s2g9 10 comm error
1637	2236	3974	060083	s2g9 10 no fire
1638	2237	3975	060083	s2g10 no fire
1640	2242	3980	060083	s2g9 10 no fire
1640	2243	3981	060083	s2g8 g10 no fire
1640	2244	3982	060083	s2g9 10 no fire
1641	2246	3984	060083	s2g10 no fire
1642	2247	3985	060083	s2g9 no fire
1642	2248	3986	060083	s2g9 10 s3g8 no fire
1643	2251	3989	060083	s1g8 delta 6.ms
1644	2252	3990	060083	S1G08 delta -4.3ms s3g3 no fire
1646	2257	3995	060083	s2g8 9 10 no fire
1649	2265	4003	060083	s2g10 s3g3 no fire
1649	2266	4004	060083	s3g3 no fire
1650	2268	4006	060083	s3g3 4 no fire
1650	2269	4007	060083	s2g1 no fire
1651	2270	4008	060083	s3g3 s3g4 no fire
1651	2271	4009	060083	s2g9 10 s3g3 4 no fire
1651	2272	4010	060083	s3g3 no fire
1652	2273	4011	060083	s3g7 no fire
1652	2274	4012	060083	s3g4 no fire
1652	2275	4013	060083	s2g9 g10 no fire
1653	2276	4014	060083	s2g9 10 s3g3 4 no fire
1654	2278	4016	060083	s3g4 no fire
1654	2279	4017	060083	s2g10 s3g3 no fire

1654	2280	4018	060083	s2g9 10 no fire
1656	2284	4022	060083	s3g3 s3g4 no fire
1656	2285	4023	060083	s3g3 4 no fire
1657	2287	4025	060083	s2g8 9 10 s3g 3 9 no fire
1658	2289	4027	060083	s3g 3 4 no fire
1658	2290	4028	060083	s2g10 no fire
1659	2292	4030	060083	s3g 3 4 no fire
1700	2293	4031	060083	s2g8 10 s3g3 no fire s2g9 delta -5.6ms
1700	2294	4032	060083	s2g9 delta 4.4ms
1700	2295	4033	060083	s2g9 10 no fire
1700	2296	4034	060083	s2g9 10 no fire
1701	2297	4035	060083	s2g9 10 no fire s3g8 no fire
1701	2298	4036	060083	s2g9 no fire
1702	2299	4037	060083	s2g9 10 no fire
1702	2300	4038	060083	S2G9,10 No Fire
1702	2301	4039	060083	S2G8,9,10 S3G3 No Fire
1703	2302	4040	060083	S2G9 No Fire
1703	2304	4042	060083	s3g7 no fire
1704	2305	4043	060083	S3G3 No Fire
1704	2306	4044	060083	S2G9,10 No Fire
1704	2307	4045	060083	S2G9,10 No Fire
1705	2308	4046	060083	S2G8,9,10 No Fire
1705	2309	4047	060083	S2G9,10 No Fire
1706	2310	4048	060083	S2G8,9,10 No Fire
1707	2315	4053	060083	S2G9,10 No Fire
1708	2316	4054	060083	S3G3,4 No Fire
1708	2317	4055	060083	S2G10 No fire
1709	2319	4057	060083	S2G8,9,10 No Fire
1709	2321	4059	060083	S3G4 No Fire
1710	2322	4060	060083	S2G10 S3G3 No Fire
1711	2324	4062	060083	S2G8,9,10 No Fire
1711	2325	4063	060083	S2G9 S3G3 No Fire
1712	2328	4066	060083	S2G1,6 No Fire
1713	2329	4067	060083	S2G9,10 No Fire S3G2 Delta -2.3ms
1713	2330	4068	060083	S2G7,8,9,10 No fire
1714	2332	4070	060083	S3G3 No Fire
1714	2333	4071	060083	S2G10 S3G2 No Fire
1715	2334	4072	060083	S2G10 No fire
1715	2336	4074	060083	S3G2 No Fire
1716	2337	4075	060083	S2G10 No Fire
1716	2338	4076	060083	S3G7 No fire

1717	2339	4077	060083	S3G3,8 No fire
1717	2340	4078	060083	S3G2,7,8,9 No Fire
1718	2342	4080	060083	S3G3,4 No Fire
1718	2343	4081	060083	S3G3 No Fire
1719	2344	4082	060083	S2G8,9,10 S3G4,5 No fire
1719	2345	4083	060083	s2g10 s3g3 no fire
1719	2346	4084	060083	S3G2,3,4 No Fire
1720	2347	4085	060083	S3G3 No Fire
1720	2348	4086	060083	S3G3 No Fire
1721	2349	4087	060083	S3G3,4,7,8 No Fire
1721	2350	4088	060083	S3G3,4 No Fire
1722	2351	4089	060083	S2G8 S2G3 No Fire
1722	2352	4090	060083	S3G3,4 No Fire
1722	2353	4091	060083	S3G3,4 No Fire
1723	2354	4092	060083	S2G10 S3G3 No Fire
1723	2355	4093	060083	S2G8,9,10 S3G2,3 No Fire
1724	2356	4094	060083	S3G1,3 No Fire
1724	2357	4095	060083	S3G3 No Fire
1724	2358	4096	060083	S3G1,2,3 No Fire
1725	2359	4097	060083	S2G9,10 S3G3,4 No Fire
1725	2360	4098	060083	S3G1,3 No Fire
1726	2361	4099	060083	S3G3 No Fire
1726	2362	4100	060083	S3G2,3 No Fire
1726	2363	4101	060083	S3G3,4 No Fire
1727	2364	4102	060083	S2G9,10 S3G3,4,5 No Fire
1727	2365	4103	060083	S3G3 No Fire
1728	2366	4104	060083	S3G3,4 9 No Fire
1728	2367	4105	060083	S3G2,4,5 No Fire
1728	2368	4106	060083	S3G3 No fire
1729	2369	4107	060083	S2G9,10 S3G1,2 No Fire
1730	2372	4110	060083	S2G8,9,10 S3G2,3 No fire
1730	2373	4111	060083	S2G8,9,10 S3G2,3 No fire
1731	2374	4112	060083	S3G4 No Fire
1731	2375	4113	060083	S3G3 No fire
1732	2376	4114	060083	S2G9,10 S3G2,3 No fire
1732	2377	4115	060083	S3G3,4,6 No fire
1732	2378	4116	060083	S2G9,10 S3G1,3,4 No fire
1733	2379	4117	060083	S2G10 S3G2,3,4,5 No fire
1733	2380	4118	060083	S3G3,4 No fire S3G2 Delta 2.1ms
1733	2381	4119	060083	S3G4,5 No Fire
1734	2382	4120	060083	S3G3 No fire

1734	2383	4121	060083	S3G3,4 No fire
1735	2384	4122	060083	S3G3,4 No fire
1735	2385	4123	060083	S3G2,3,4 No Fire
1735	2386	4124	060083	S3G3,4,5 No Fire
1736	2387	4125	060083	S2G9,10 S3G2,3 No fire
1736	2388	4126	060083	s2g10 s3g3 no fire
1736	2389	4127	060083	S3G3,4,7,10 No Fire
1737	2390	4128	060083	S3G3 No Fire
1737	2391	4129	060083	S3G2,3,7 No fire
1738	2392	4130	060083	S2G8,10 No fire
1738	2393	4131	060083	S2G9,10 S3G3,4 No fire
1738	2394	4132	060083	S3G3,4,5,8,9,10 No Fire
1739	2395	4133	060083	S3G3 No fire
1739	2396	4134	060083	S2G8,9,10 S3G3,4 No fire
1739	2397	4135	060083	S2G2,3,4,6 No fire
1740	2398	4136	060083	S3G3,4,8 No Fire
1740	2399	4137	060083	S2G9 S3G34 No Fire
1741	2400	4138	060083	S3G3,4 No Fire
1741	2401	4139	060083	S3G2,3 No Fire
1741	2402	4140	060083	S3G3,4 No Fire
1742	2403	4141	060083	S3G3,4 No Fire
1742	2404	4142	060083	S3G3 No Fire
1742	2405	4143	060083	S3G3,4 No Fire
1743	2406	4144	060083	S3G3,4,5,9 No fire
1743	2407	4145	060083	S2G10 S3G3,4 No Fire
1744	2408	4146	060083	S2G8,9,10 S3G3 No Fire
1744	2409	4147	060083	S3G3,4 No Fire
1744	2410	4148	060083	S3G3,8 No fire
1745	2411	4149	060083	S3G3 No Fire
1745	2413	4151	060083	S3G3,4 No Fire
1746	2414	4152	060083	S3G3 Fire
1746	2415	4153	060083	S2G9,10 S3G3,5,6 No Fire
1747	2416	4154	060083	S3G3 No Fire
1747	2417	4155	060083	S3G3 No Fire
1747	2418	4156	060083	S3G3 No Fire
1748	2419	4157	060083	S3G4 No Fire
1748	2420	4158	060083	S3G3 No Fire
1748	2421	4159	060083	S3G4 No Fire
1749	2422	4160	060083	S3G3,4,8 No fire
1749	2423	4161	060083	S3G3,4 No Fire
1750	2424	4162	060083	S2G10 S3G3,4,9 No Fire

1750	2425	4163	060083	S3G3,7,8,9,10 No Fire
1750	2426	4164	060083	S2G6 S3G3,4 No Fire
1751	2427	4165	060083	S3G8 No Fire
1751	2428	4166	060083	S3G3 No Fire
1751	2429	4167	060083	S2G9,10 S3G3,4 No fire
1752	2430	4168	060083	S3G3,4 No Fire
1752	2431	4169	060083	S3 Power Cycle
1752	2432	4170	060083	S2G1,10 S3 No Fire
1754	2435	4173	060083	S2G8,9,10 S3G3,4 No fire
1754	2436	4174	060083	S2G7 S3G3,4 No Fire
1754	2437	4175	060083	S2G8,9,10 S3G3,4 No fire
1755	2438	4176	060083	S3G3 No Fire
1755	2440	4178	060083	S2G9 S3G4 No Fire
1756	2441	4179	060083	S3G3,4,5 No Fire
1756	2442	4180	060083	S3G4 No Fire
1756	2443	4181	060083	S3G3,4,5 No Fire S1G8 delta 3.5ms
1757	2444	4182	060083	S1G8 delta -2.6ms
1758	2448	4186	060083	S3G4 No Fire
1759	2450	4188	060083	S2G10 No Fire
1800	2452	4190	060083	S3G8 No Fire
1801	2455	4193	060083	S2G10 No Fire
1801	2456	4194	060083	S2G6,10 S3G4 No Fire
1801	2457	4195	060083	S3G8 No Fire
1802	2458	4196	060083	S3G4,7 No Fire
1802	2459	4197	060083	S2G9,10 S3G4 No Fire
1803	2462	4200	060083	S3G8 No Fire
1804	2463	4201	060083	S3G4,7 No Fire
1804	2464	4202	060083	S3G4 No Fire
1805	2466	4204	060083	S3G4,5 No Fire
1805	2467	4205	060083	S2G1 S3G8 No Fire
1807	2473	4211	060083	S2G10 No Fire
1808	2474	4212	060083	S3G2 Delta 2.2ms
1808	2475	4213	060083	S2G10 S3G5 No Fire
1809	2477	4215	060083	S2G9,10 No Fire
1809	2478	4216	060083	S2G8,9,10 No Fire
1809	2479	4217	060083	S3G1 No Fire
1810	2480	4218	060083	S2G9,10 No Fire
1811	2484	4222	060083	S2G9,10 No Fire
1812	2485	4223	060083	S2G6 No Fire
1812	2486	4224	060083	S2G10 S3G10 No Fire
1812	2487	4225	060083	S2G9,10 No Fire

1815	2495	4233	060083	S2G9,10 S3G1,8 No Fire
1816	2498	4236	060083	S2G1 No Fire
1817	2500	4238	060083	S2G9,10 S3G3,4,8,9 No Fire
1817	2501	4239	060083	S1G8 delta 3.4ms S3G1 No Fire
1818	2502	4240	060083	S1G8 Delta -2.6ms S3G8,9 No Fire
1818	2503	4241	060083	S3G1 No Fire
1819	2505	4243	060083	S2G10 S3G8 No Fire
1819	2506	4244	060083	S3G1 S3G2 No Fire
1821	2510	4248	060083	S3G6,8 No Fire
1822	2514	4252	060083	S2G10 No Fire
1822	2515	4253	060083	S3G6No Fire
1823	2517	4255	060083	S1G8 Delta 4.3ms S3G7 No Fire
1823	2518	4256	060083	S1G8 Delta -3.3ms S3G5 No Fire
1824	2519	4257	060083	S3G2 Delta 2.1ms
1825	2522	4260	060083	S3G4 No Fire
1825	2523	4261	060083	S2G10 S3G9 No Fire
1825	2524	4262	060083	S3G4,5,7,8 No Fire
1827	2528	4266	060083	S2G9,10 S3G1 No Fire
1827	2529	4267	060083	S3G5,6,10 No Fire
1828	2532	4270	060083	S2G9,10 S3G4 No Fire
1830	2536	4274	060083	S3G7,8 No Fire
1830	2537	4275	060083	S2G4 Auto Fire 614.4ms S3G10 No Fire
1830	2538	4276	060083	S2G1 S3G4 No Fire
1832	2541	4279	060083	S3G1 No Fire
1832	2544	4282	060083	S3G6 No Fire
1833	2545	4283	060083	S2G10 S3G5,6,7 No Fire
1834	2548	4286	060083	S3G7 No Fire
1834	2549	4287	060083	S3G1 No Fire
1835	2550	4288	060083	S2G1 No Fire
1835	2551	4289	060083	S3G7,8 No Fire
1836	2552	4290	060083	S3G1 No Fire
1837	2556	4294	060083	S3G9 No Fire
1837	2557	4295	060083	S3G4,6,7 No Fire
1839	2561	4299	060083	S2G9,10 S3G4 No Fire
1839	2563	4301	060083	S3G6,7 No Fire
1841	2567	4305	060083	S3G6 No Fire
1841	2568	4306	060083	S2G9,10 No Fire
1842	2569	4307	060083	S3G1,2 No Fire
1842	2570	4308	060083	S2G9 No Fire
1844	2575	4313	060083	S2G10 S3G5,6 No Fire
1848	2588	4326	060083	S3G1 No Fire

1849	2589	4327	060083	S3G4,6 No Fire
1849	2591	4329	060083	S1G8 Delta 4.2ms S2G9,10 No Fire
1850	2592	4330	060083	S1G8 Delta -2.8ms S3G4 No Fire
1850	2593	4331	060083	S3G8,9 No Fire
1851	2595	4333	060083	S3G4 No Fire
1851	2596	4334	060083	S3G4,6,7 No Fire
1851	2597	4335	060083	S3G1,4 No Fire
1853	2601	4339	060083	S2G10 No Fire
1854	2603	4341	060083	S2G10 No Fire
1854	2604	4342	060083	S2G10 No Fire
1856	2611	4349	060083	S1G8 Delta 3.6ms
1857	2612	4350	060083	S1G8 Delta -2.7ms
1859	2618	4356	060083	S2G10 No Fire
1900	2621	4359	060083	S2G10 No Fire
1901	2623	4361	060083	S2G9 Delta -7.2ms S2G10 No Fire
1901	2624	4362	060083	S2G9 Delta 6.2ms
1902	2626	4364	060083	S2G9,10 No Fire
1903	2629	4367	060083	S3G7 No Fire
1905	2634	4372	060083	S2G9,10 No Fire
1905	2635	4373	060083	S2G9,10 No Fire
1906	2639	4377	060083	S2G9,10 No Fire
1907	2640	4378	060083	S2G10 No Fire
1907	2641	4379	060083	S2G8,9,10 No Fire
1908	2643	4381	060083	S3G4 No Fire
1910	2649	4387	060083	S2G7,8,9,10 No fire
1912	2656	4394	060083	S2G9 No Fire
1913	2659	4397	060083	S2G8,9,10 No fire
1914	2660	4398	060083	S2G8,9,10 No fire
1915	2662	4400	060083	S2G10 No Fire
1915	2664	4402	060083	S2G9 No Fire
1916	2667	4405	060083	S2G10 No Fire
1917	2668	4406	060083	S2G9,10 No Fire
1917	2669	4407	060083	S2G9,10 No Fire
1917	2670	4408	060083	S2G9,10 No Fire
1918	2672	4410	060083	S2G10 No Fire
1919	2674	4412	060083	S2G10 No Fire
1920	2677	4415	060083	S1G8 Delta 5.8ms
1920	2678	4416	060083	S2G7,8,9,10 No fire S1G8 Delta -3.9ms
1920	2679	4417	060083	S2G8,9,10 No Fire
1921	2681	4419	060083	S2G10 No Fire
1922	2683	4421	060083	S4G1 Delta -2.3ms

1922	2684	4422	060083	S2G8,9,10 No Fire
1922	2685	4423	060083	S2G8,9,10 No Fire
1924	2691	4429	060083	S2G1,10 S3 No Fire
1925	2694	4432	060083	S2G9,10 No Fire
1926	2696	4434	060083	S3G2 Delta 2.1ms
1927	2699	4437	060083	S2G9 No Fire
1927	2700	4438	060083	S2G10 No Fire
1928	2701	4439	060083	S2G10 No Fire
1929	2704	4442	060083	s2g09 10 no fire
1929	2705	4443	060083	s2g10 nofire
1930	2707	4445	060083	S2G10 No Fire
1930	2708	4446	060083	s2g09 10 no fire
1931	2710	4448	060083	s2g09 10 no fire
1931	2717	4455	060083	s2g09 no fire
1933	2721	4459	060083	s2g09 10 no fire
1935	2722	4460	060083	s2g09 no fire
1938	2730	4468	060083	s2g09,10 no fire
1938	2732	4470	060083	s2g09,10 no fire
1939	2733	4471	060083	s2g09 no fire
1939	2734	4472	060083	s2g09,10 no fire
1941	2739	4477	060083	s2g09 no fire
1942	2742	4480	060083	s2g06,09 10 s3g02 delta 2.5 ms
1942	2743	4481	060083	s2g09,10 no fire
1942	2744	4482	060083	s2g09,10 no fire
1944	2748	4486	060083	s2g06 no fire
1946	2754	4492	060083	s2g06 no fire
1950	2765	4503	060083	s2g10 no fire
1951	2768	4506	060083	s2g09 10 no fire
1951	2769	4507	060083	s2g07 no fire
1952	2771	4509	060083	s2g08 no fire
1954	2777	4515	060083	s2g07 09 10 no fire
1954	2777	4515	060083	EOL LAT 022 26.81023 N LONG 122 19.85000 E

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #	060084	060086	FGSP	1050
SP #	1050	2053	LGSP	2053

Line	MGL0906_30N
Sequence	045
Direction	214

Streamer Parameters				
	1	2	3	4
Length			6000	
Auxiliaries				
Shotpoint Interval:			50	
Offset CS - CFG			161	
Group Interval:			12.5	
Number of channels			468	
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	15s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	06/01/09	06/02/09
Time UTC	20:08	10:39
Volume (cu in.)	6560	6560
Streamer Depth (m)	9	9
Wind (kts)	9.7	8
Sea State (ft)	3-5	3-6
Water Depth (m)	4801	1455

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL LAT 022 25.90329 N LONG 122 19.19450 E
S2G02.03.04.05 S3G03 SPARED FROM PREVIOUS LINE NO FIRE CONDITION VOLUME IS 6520 in3
2100 SP1192 noise on streamer -channels 280 bird 9 rose fin angle
21:22bird 18 rising depth 3.7 meters SP 1194
21:56 switched string 3 poer and comms to secondary source multiple failures abated
21:59 bird 18 2.9 m bird 19 6.3 m
22:01 S303 active new volume 6560 in3
22:56 noise on streamer from fishing vessel ch 360 SP1438
01:36 REEL CHANGE 060084-060085
03:56 raise birds 1-6 to 6 meters, fishing gear. SP 2069
04:09 raise birds 7-12 to 6 meters, fishing gear. SP 2098
04:18 raise birds 13-17 to 6 meters, fishing gear. SP 2115
Line Status:

04:53 SP2197 Anthony done with adjusting birds, only B18 and19 out of spec.
06:36 REEL CHANGE 060085-060086
10:39 EOL MGL09_06_30N_Seq045 SP3102, Lat 21d40.0549N Lon 121d45.381E File 2053

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Imitation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
20:08	1	1050	060084	SOL LAT 022 25.90329 N LONG 122 19.19450 E
20:08	1	1050	060084	S2G08,09,10 No fire
20:08	2	1051	060084	S2G08,09,10 No fire
20:09	5	1054	060084	S2G09,10 No fire
20:14	19	1068	060084	S2G10 No fire
2015	23	1072	060084	S2G10 No fire
2016	24	1073	060084	S2G10 No fire
2019	32	1081	060084	S2G10 S3G04 NO FIRE
2020	36	1085	060084	S3G04 NO FIRE
2021	38	1087	060084	S3G04 NO FIRE
2023	44	1093	060084	S1G08 delta 3.7 ms
2023	45	1094	060084	S1G08 delta -2.8 ms
2024	46	1095	060084	S2G06 NO FIRE
2029	61	1110	060084	S2G06 NO FIRE
2031	66	1115	060084	S2G10 No fire
2032	68	1117	060084	S3G02 delta -2.8ms
2032	70	1119	060084	S2G06 NO FIRE
2033	71	1120	060084	S1G08 delta 3.4 ms
2033	72	1121	060084	S1G08 delta -2.4ms
2037	81	1130	060084	S2G09,10 No fire
2037	82	1131	060084	S2G09 No fire
2039	87	1136	060084	S2G05 507940.4 ms AUTO FIRE
2040	89	1138	060084	S2G01 NO FIRE
2040	90	1139	060084	S1G08 NO FIRE
2040	91	1140	060084	S1G08 DELTA
2041	94	1143	060084	S2G087 NO FIRE
2042	96	1145	060084	S2G09,10 No fire

2043	98	1147	060084	S2G09,10 No fire
2043	99	1148	060084	S2G09,10 No fire
2044	100	1149	060084	S2G10 No fire
2046	107	1156	060084	S2G09 NO FIRE
2051	119	1168	060084	S3G04,05 NO FIRE
2052	120	1169	060084	S3G08 NO FIRE
2052	121	1170	060084	S3G04 NO FIRE
2053	124	1173	060084	S3G04 NO FIRE
2054	125	1174	060084	S2G09,10 S3G10 NO FIRE
2054	126	1175	060084	S2G10 No fire
2056	131	1180	060084	S2G10 No fire
2056	132	1181	060084	S2G09,10 No fire
2057	133	1182	060084	S2G09,10 No fire
2058	136	1185	060084	S2G09,10 No fire
2059	139	1188	060084	S3G04 NO FIRE
2100	140	1189	060084	S1G08 NO FIRE
2100	141	1190	060084	S1G08 NO FIRE
2102	145	1194	060084	S3G04 NO FIRE
2102	148	1197	060084	S3G07 NO FIRE
2103	150	1199	060084	S3G04 NO FIRE
2104	151	1200	060084	S2G01 NO FIRE
2105	152	1201	060084	S3G04 NO FIRE
2104	153	1202	060084	S3G08 NO FIRE
2105	154	1203	060084	S3G07 NO FIRE
2108	161	1210	060084	S3G07 NO FIRE
2108	163	1212	060084	S2G09,S3G05 NO FIRE
2109	164	1213	060084	S3G08,09 NO FIRE
2109	165	1214	060084	S2G10,S3G04 NO FIRE
2111	169	1218	060084	S3G04 NO FIRE
2113	173	1222	060084	S3G04,08,09,10 NO FIRE
2113	174	1223	060084	S1G08 DELTA 3.8 ms
2113	175	1224	060084	S1G08 NO FIRE
2115	178	1227	060084	S3G07,08 NO FIRE
2115	179	1228	060084	S3G04,06 NO FIRE
2115	180	1229	060084	S3G04,05,07,08 NO FIRE
2116	182	1231	060084	S3G06 NO FIRE
2117	184	1233	060084	S3G04 NO FIRE
2117	185	1234	060084	S3G04,05,08,09 NO FIRE
2118	186	1235	060084	S3G04,05 NO FIRE
2119	189	1238	060084	S3G04,09 NO FIRE
2120	190	1239	060084	S3G08,09,10 NO FIRE

2120	191	1240	060084	S2G10 NO FIRE
2120	192	1241	060084	S3G04 NO FIRE
2121	193	1242	060084	S3G04,05 NO FIRE
2122	195	1244	060084	S3G04 NO FIRE
2122	196	1245	060084	S3G04 NO FIRE
2123	197	1246	060084	S3G04 NO FIRE
2123	198	1247	060084	S2G09,S3G04 NO FIRE
2124	201	1250	060084	S3G04 NO FIRE
2125	202	1251	060084	S3G07,08,09,10 NO FIRE
2125	203	1252	060084	S2G09,10 S3G04,08,09 NO FIRE
2126	204	1253	060084	S3G04,05,08,09,10 NO FIRE
2126	205	1254	060084	S3G04 NO FIRE
2127	206	1255	060084	S3G04 NO FIRE
2127	207	1256	060084	S3G04 NO FIRE
2128	208	1257	060084	S1G08 delta timing 7.4 ms S3G04 NO FIRE
2128	209	1258	060084	S1G08 delta timing -5.6 ms S3G04 NO FIRE
2129	211	1260	060084	S2G07,08 S3G04 NO FIRE
2130	213	1262	060084	S3G04 NO FIRE
2131	214	1263	060084	S2G08,10 S3G04 NO FIRE
2131	215	1264	060084	S3G09,10 NO FIRE
2132	216	1265	060084	S2G01 S3G04,05 NO FIRE
2132	217	1266	060084	S2G07-10 S3G06 NO FIRE
2133	220	1269	060084	S3G04,05 NO FIRE
2134	221	1270	060084	S2G07 NO FIRE
2134	222	1271	060084	S2G06,07,10;S3G04,05 NO FIRE
2135	223	1272	060084	S3G04,09 NO FIRE
2135	224	1273	060084	S2G10;S3G04 NO FIRE
2136	225	1274	060084	S3G04 NO FIRE
2137	226	1275	060084	S3G04,05,06 NO FIRE
2137	227	1276	060084	S3G04,05,06 NO FIRE
2137	228	1277	060084	S3G06,07 NO FIRE
2138	229	1278	060084	S3G04,05,06 NO FIRE
2139	232	1281	060084	S2G08;S3G04,05,06 NO FIRE
2141	235	1284	060084	S3G04,05,06,07 NO FIRE
2141	236	1285	060084	S3G04,06,07 NO FIRE
2142	238	1287	060084	S2G07;S3G04,05,06,07,08,09,10 NO FIRE
2143	239	1288	060084	S3G04,05,08,09,10 NO FIRE
2143	240	1289	060084	S3 POWER CYCLE
2144	241	1290	060084	S3G04,05,06,07,08,10 NO FIRE
2144	242	1291	060084	S3G04,05,06,09,10 NO FIRE
2145	243	1292	060084	S2G08,09,10;S3G04,05,07,08,09,10 NO FIRE

2145	244	1293	060084	S3G04,05,08,09 NO FIRE
2146	245	1294	060084	S2G06;S3G04,05,06,07,09,10 NO FIRE
2147	247	1296	060084	S3G04,05 NO FIRE
2147	248	1297	060084	S3G04,05 NO FIRE
2148	249	1298	060084	S1G08 DELTA -2.9 ms;S3 NO FIRE
2148	250	1299	060084	S3G04,05,08,09,10 NO FIRE
2148	251	1300	060084	S2G06 N FIRE;S3 NO FIRE
2149	252	1301	060084	S3G01,02,04,05 NO FIRE
2149	253	1302	060084	S1G08 DELTA 3.3 ms;S2G06,10 NO FIRE;S3G03,04,05,06,07,08,09,10 NO FIRE
2150	254	1303	060084	S1G08 DELTA -2.3 ms; S2G01,10 NO FIRE; S3G04,05,06,07,08,09,10 NO FIRE
2150	255	1304	060084	S3 NO FIRE
2151	256	1305	060084	S3G02,04,08 NO FIRE
2151	257	1306	060084	S3G03,04,06,07,08 NO FIRE
2152	258	1307	060084	S3G04,05,06,07,08,09,10 NO FIRE
2152	259	1308	060084	S3G01,04,05,06 NO FIRE
2152	260	1309	060084	S3G04,06,07,10 NO FIRE
2153	261	1310	060084	S3 COMMON ERROR
2153	262	1311	060084	S3 NO FIRE
2158	272	1321	060084	S2G09 DELTA -6.4 ms
2158	273	1322	060084	S2G09 DELTA 5.2 ms
2159	275	1324	060084	S2G10 NO FIRE
2200	276	1325	060084	S2G01 NO FIRE
2204	284	1333	060084	S3G02 DELTA -2.4 ms
2214	307	1356	060084	S2G06 NO FIRE
2221	322	1371	060084	S2G06 NO FIRE
2226	332	1381	060084	S2G06 NO FIE
2227	333	1382	060084	S2G08,09,10 No fire
2232	344	1393	060084	S2G05 52428 ms AUTO FIRE
2244	368	1417	060084	S1G08 DELTA 3.5 ms
2245	369	1418	060084	S1G08 DELTA -2.8 ms
2256	389	1438	060084	22:56 noise on streamer from fishing vessel ch 360 SP1438
2300	398	1447	060084	S2G10 NO FIRE
2301	400	1449	060084	S2G07 NO FIRE
2307	410	1459	060084	S2G09,10 NO FIRE
2316	426	1475	060084	S2G06 NO FIRE
2322	436	1485	060084	S2G07,10 NO FIRE
2335	460	1509	060084	S2G09 DELTA -6.6 ms
2336	461	1510	060084	S2G09 DELTA 5.6 ms
2337	464	1513	060084	S2G09,10 NO FIRE
2340	468	1517	060084	S2G06 NO FIRE
2340	469	1518	060084	S2G09,10 NO FIRE

23:46	480	1529	060084	S2G06 NO FIRE
23:48	484	1533	060084	S2G10 NO FIRE
23:56	499	1548	060084	S2G10 NO FIRE
23:56	500	1549	060084	S2G06 NO FIRE
23:57	502	1551	060084	S2G06 NO FIRE
0004	515	1564	060084	S2G09 NO FIRE
0007	521	1570	060084	S2G05 NO FIRE
0009	524	1573	060084	S2G10 NO FIRE
0010	525	1574	060084	S2G09,10 NO
0012	530	1579	060084	S2G8 NO FIRE
0013	531	1580	060084	S1G8 DELTA 3.2 MS,S2G9,10 NO FIRE
0013	532	1581	060084	S1G8 DELTA -2.3 MS
0014	533	1582	060084	S2G8,G9,G10 NO FIRE
0015	536	1585	060084	S2G6,G7 NO FIRE
0017	539	1588	060084	S2G10 NO FIRE
0020	545	1594	060084	S2G7 NO FIRE
0024	552	1601	060084	S2G10 NO FIRE
0027	559	1608	060084	S2G7 NO FIRE
0028	560	1609	060084	S2G7 NO FIRE
0029	562	1611	060084	S2G6,G10 NO FIRE
0038	580	1629	060084	S2G9,G10 NO FIRE
0039	581	1630	060084	S2G9 NO FIRE
0039	582	1631	060084	S2G6 NO FIRE
0042	588	1637	060084	S1G8 DELTA 3.7 MS
0043	589	1638	060084	S1G8 DELTA -2.7 MS
0045	593	1642	060084	S2G8,G9,G10 NO FIRE
0049	602	1651	060084	S2G8,G9,G10 NO FIRE
0053	609	1658	060084	S2G9,G10 NO FIRE
0053	610	1659	060084	S2G9,G10 NO FIRE
0054	612	1661	060084	S2G9,G10 NO FIRE
0055	614	1663	060084	S2G10 NO FIRE
0058	621	1670	060084	S2G2 AUTO FIRE 204.0 MS
0100	624	1673	060084	S2G9,G10 NO FIRE
0103	630	1679	060084	S2G6 NO FIRE
0104	632	1681	060084	S2G9,G10 NO FIRE
0108	641	1690	060084	S1G8 DELTA 3.2 MS
0109	642	1691	060084	S1G8 DELTA -2.2 MS
0110	646	1695	060084	S2G9 NO FIRE
0125	678	1727	060084	S2G1 NO FIRE
0127	682	1731	060084	S2G9,G10 NO FIRE
0132	692	1741	060084	S3G2 DELTA 2.5 MS

0136	700	1749	060085	reel change 060084-0600865
0136	701	1750	060085	S2G10 NO FIRE
0136	702	1751	060085	S1G8 DELTA 3.6 MS
0137	703	1752	060085	S1G8 DELTA -2.8 MS
0138	705	1754	060085	S2G9 AUTO FIRE 49356.0 MS
0140	710	1759	060085	S1G8 DELTA 3.4 MS
0140	711	1760	060085	S1G8 DELTA TIMING
0144	718	1767	060085	S1G8 DELTA 3.6 MS
0144	719	1768	060085	S1G8 DELTA -2.9 MS
0145	721	1770	060085	S2G10 NO FIRE
0145	722	1771	060085	S2G10 NO FIRE
0150	732	1781	060085	S2G9 NO FIRE
0151	733	1782	060085	S2G8,G9,G10 NO FIRE
0151	734	1783	060085	S2G7,G10 NO FIRE
0154	740	1789	060085	S2G10 NO FIRE
0200	752	1801	060085	S1G8 DELTA 3.7 MS
0200	753	1802	060085	S1G8 DELTA -2.7 MS
0203	759	1808	060085	S2G10 NO FIRE
0203	760	1809	060085	S3G5 AUTO FIRE 743.2 MS
0204	762	1811	060085	S2G7 AUTO FIRE 52428.0 MS
0208	770	1819	060085	S1G8 DELTA 3.5 MS
0208	771	1820	060085	S1G8 DELTA -2.7 MS
0211	777	1826	060085	S2G9 NO FIRE
0213	780	1829	060085	S2G10 NO FIRE
0217	790	1839	060085	S2G5 AUTO FIRE 52224.0 MS
0228	814	1863	060085	S1G8 DELTA 3.6 MS
0228	815	1864	060085	S1G8 DELTA -2.9 MS
0231	822	1871	060085	S2G10 NO FIRE
0233	-174	0875	060085	S1G8 DELTA 3.2 MS
0233	827	1876	060085	S1G8 DELTA -2.5 MS
0234	828	1877	060085	S2G9 NO FIRE
0238	839	1888	060085	S2G9,10 NO FIRE
0305	902	1951	060085	S2G6 NO FIRE
0309	912	1961	060085	S2G10 NO FIRE
0311	916	1965	060085	S2G4 NO FIRE
0312	919	1968	060085	S2G4 NO FIRE
0313	920	1969	060085	S2G5 NO FIRE
0313	921	1970	060085	S2G5,7 NO FIRE
0314	923	1972	060085	S2G5 NO FIRE
0317	929	1978	060085	S2G6 NO FIRE
0317	930	1979	060085	S2G9 NO FIRE

0318	932	1981	060085	S2G10 NO FIRE
0323	943	1992	060085	S2G8 NO FIRE
0323	944	1993	060085	S2G8 NO FIRE
0326	951	2000	060085	S2G7 NO FIRE
0326	952	2001	060085	S2G7 NO FIRE
0329	958	2007	060085	S1G8 DELTA 3.5 MS,S2G10 NO FIRE
0329	959	2008	060085	S1G8 DELTA -2.7 MS
0330	961	2010	060085	S2G10 NO FIRE
0331	963	2012	060085	S2G8 NO FIRE
0333	967	2016	060085	S2G6 NO FIRE
0333	968	2017	060085	S2G10 NO FIRE
0334	970	2019	060085	S2G7,8, 9,10 NO FIRE
0340	985	2034	060085	S2G9,10 NO FIRE
0344	994	2043	060085	S2G9,10 NO FIRE
0347	1000	2049	060085	S2G10 NO FIRE,S1G8 DELTA 3.6 MS
0347	1001	2050	060085	S2G10 NO FIRE,S1G8 DELTA 4.3 MS
0355	1018	2067	060085	S1G8 DELTA 4.0 MS
0355	1019	2068	060085	S1G8 DELTA -3.2 MS
0356	1020	2069	060085	Raise birds 1-6 to 6 meters
0409	1049	2098	060085	S2G10 NO FIRE Raise birds 6 thru 12 to 6 meters.
0412	1056	2105	060085	S1G8 DELTA 3.9 MS
0413	1057	2106	060085	S1G8 DELTA -3.0 MS
0418	1066	2115	060085	Raise birds 13 thru 17 to 6 meters.
04:18	1068	2117	060085	S1G8 delta timing 3.7 ms
04:18	1069	2118	060085	S1G8 delta timing -2.8 ms
04:23	1079	2128	060085	S1G8 delta timing 4.8 ms
04:23	1080	2129	060085	S1G8 delta timing -3.4 ms
04:27	1090	2139	060085	S1G8 delta timing -2.9 ms
04:28	1091	2140	060085	S1G8 delta timing -2.8 ms
04:35	1106	2155	060085	S1G8 delta timing 6.2 ms
04:36	1107	2156	060085	S1G8 delta timing -2.7 ms
04:36	1108	2157	060085	S1G8 delta timing 3.2 ms
04:37	1112	2161	060085	S3G2 DELTA 2.5 MS
04:44	1126	2175	060085	S2G10 no fire
0446	1132	2181	060085	S1G8 delta timing 5.6 ms
0447	1133	2182	060085	S1G8 delta timing -4.2 ms
0452	1145	2194	060085	S2G6 no fire
04:53	1146	2195	060085	Anthony done with adjusting birds, only B18 and19 out of spec.
0455	1153	2202	060085	S1G8 delta timing 4.2 ms
0456	1154	2203	060085	S1G8 delta timing 3.1 ms
0457	1156	2205	060085	S2G6 no fire

0508	1182	2231	060085	S1G8 delta timing 3.6 ms
0508	1183	2232	060085	S1G8 delta timing -2.8 ms
0510	1186	2235	060085	S1G8 delta timing 3.6 ms
0510	1187	2236	060085	S1G8 delta timing -3.0 ms
0512	1192	2241	060085	S2G10 no fire
0516	1200	2249	060085	S1G8 delta timing 3.6 ms
0516	1201	2250	060085	S1G8 delta timing -2.7 ms
0531	1236	2285	060085	S1G8 delta timing 3.6 ms
0531	1237	2286	060085	S1G8 delta timing -2.9 ms
0533	1241	2290	060085	S2G10 no fire
0534	1244	2293	060085	S2G6 no fire
0538	1254	2303	060085	S2G6 no fire
0546	1273	2322	060085	S2G6 no fire
0551	1285	2334	060085	S2G6,7 no fire
0555	1297	2346	060085	S1G8 delta timing 5.5 ms
0556	1298	2347	060085	S1G8 delta timing -3.7 ms
0557	1300	2349	060085	S3G1 136.8 ms AUTO FIRE
0604	1318	2367	060085	S1G08 delta 3.8ms
0604	1319	2368	060085	S1G08 delta -2.8ms
0614	1344	2393	060085	S1G08 delta 3.2ms
0614	1345	2394	060085	S1G08 delta -2.5ms
0624	1370	2419	060085	S1G08 delta 3.4ms
0624	1371	2420	060085	S1G08 delta -2.7ms
0626	1376	2425	060085	S2g7 8 9 10 no fire
0629	1383	2432	060085	s2g10 no fire
0632	1390	2439	060085	S1g08 delta 3.7ms
0632	1391	2440	060085	s1g08 delta -2.7ms
0633	1393	2442	060085	s3g02 delta 2.2ms
0636	1400	2449	060086	reel change 060085-060086
0638	1408	2457	060086	s1g08 delta 3.4ms
0639	1409	2458	060086	s1g08 delta -2.6ms
0702	1473	2522	060086	s2g6 NO FIRE
0716	1511	2560	060086	S1G8 Delta 5.1ms
0716	1512	2561	060086	S1G8 Delta -3.7ms
0727	1542	2591	060086	S1G8 Delta 4.2ms
0733	1562	2611	060086	S2G8 No Fire
0737	1574	2623	060086	S1G8 Delta 3.8ms
0738	1575	2624	060086	S1G8 Delta -2.9ms
0739	1578	2627	060086	S1G8 Delta 3.8ms
0739	1579	2628	060086	S1G8 Delta -3.0ms
0753	1621	2670	060086	S3G2 Delta -2.2ms

0754	1623	2672	060086	S3G2 Delta 2.9ms
0803	1650	2699	060086	S1G08 Delta 3.8 ms
0804	1651	2700	060086	S1G08 Delta -2.9 ms
0806	1659	2708	060086	S2G10 No fire
0819	1694	2743	060086	S1G08 Delta 3.4 ms
0819	1695	2744	060086	S1G08 Delta -2.6 ms
0827	1718	2767	060086	S1G08 Delta 3.5 ms
0828	1719	2768	060086	S1G08 Delta -2.8 ms
0836	1741	2790	060086	S1G08 Delta 3.5 ms
0836	1742	2791	060086	S1G08 Delta -2.5 ms
0839	1750	2799	060086	S1G08 Delta 3.7 ms
0839	1751	2800	060086	S1G08 Delta -2.8 ms
0840	1752	2801	060086	S1G8 Delta 3.3 ms
0840	1753	2802	060086	S1G08 Delta -3.1 ms
0851	1784	2833	060086	S1G08 Delta 3.4 ms
0851	1785	2834	060086	S1G08 Delta -2.5 ms
0912	1838	2887	060086	S1G08 Delta 3.5 ms
0912	1839	2888	060086	S1G08 Delta -2.8 ms
0916	1849	2898	060086	S1G08 Delta 2.9 ms
0916	1850	2899	060086	S1G08 Delta -2.1 ms
0927	1876	2925	060086	S1G08 Delta 3.6 ms
0927	1877	2926	060086	S1G08 Delta -2.8 ms; S3G02 Delta 2.6 ms
0934	1894	2943	060086	s1g8 Delta 3.6 ms
0935	1895	2944	060086	s1g8 Delta -2.8 ms
0935	1897	2946	060086	s2g10 no fire
0936	1898	2947	060086	s1g8 Delta 3.3 ms
0936	1899	2948	060086	s1g8 Delta -2.6 ms
0940	1908	2957	060086	s1g8 Delta 3.5 ms
0940	1909	2958	060086	s1g8 Delta -2.6 ms
0951	1935	2984	060086	s3g02 delta 2.2ms
0954	1944	2993	060086	s1g8 Delta 3.4 ms
0955	1945	2994	060086	s1g8 Delta -2.7 ms
1000	1958	3007	060086	s1g8 Delta 3.4 ms
1000	1959	3008	060086	s1g8 Delta -2.7 ms
10:11	1986	3035	060086	s1g8 Delta 5.6 ms
10:11	1987	3036	060086	s1g8 Delta -4.3 ms
10:27	2021	3070	060086	Start turn.
10:39	2053	3102	060086	EOL S2G2,3,4,5, spared all others firing.

Observers Log

Vessel	Langseth
Client	Taiger #2
Area	Taiwan
Job Number	MGL0906

Party Chief	Anthony Johnson
Ch. Observer	Bern McKiernan
Sen. Observer	Ted Koczynski
Observers	

	SOL	EOL		
Tape #	060087	060090	FGSP	1018
SP #	1018	3190	LGSP	3190

Line	MGL0906_31N
Sequence	046
Direction	271 deg.

Streamer Parameters				
	1	2	3	4
Length			6000	
Auxiliaries				
Shotpoint Interval:			50	
Offset CS - CFG			161	
Group Interval:			12.5	
Number of channels			468	
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	8m
Source Separation	6m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	15s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	06/02/09	06/03/09
Time UTC	10:41	05:39
Volume (cu in.)	6560	6560
Streamer Depth (m)	9	9
Wind (kts)	8	20
Sea State (ft)	3-6 ft.	4-7
Water Depth (m)	1462	712

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

Auxiliaries	
Aux. 1-8	Empty
Aux. 13-16	Empty
Aux 9 Gun hydrophone	Empty
Aux 10 Gun hydrophone	Empty
Aux 11 Gun hydrophone	Empty
Aux 12 Gun hydrophone	Empty
Aux. 16: Port Outer hydrophone	

General / Line Comments
10:41 SOL MGL09_06_31N_Seq046 SP1018 Reel060087 Lat 21d 40.029 N Lon 121d45.220 E Guns spared at start:
S2G2,3,4 and S4G5. B 18 @2.7M andB19 @ 6.1 meters, fishing gear.
11:55 S2G5 SPARED S4G5 ONLINE.
15:19 REEL CHANGE 060087-060088
20:38 REEL CHANGE 060088-060089
0152 MERCHANT COMMERCIAL VESSEL NOISE CROSSING BEHIND TAIL BUOY 5 MILES sp 2882
0500 Begin recovery
0539 EOL MGL09_06_31N_Seq046 SP 3190 File 2174
Lat21d40.325N Lon 120d42.210 E
Line Status:

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	LFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Initiation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
10:42	0001	1018	060087	SOL MGL_09_06_31N_S046
11:00	46	1062	060087	S2G02,04 no fire
11:00	47	1063	060087	S2G02,04 no fire
11:01	50	1066	060087	S2G04 no fire
11:02	51	1067	060087	S2G04 no fire
11:02	53	1069	060087	S2G04 no fire
11:03	54	1070	060087	S2G02,04 no fire
11:03	55	1071	060087	S2G04 no fire
11:04	58	1074	060087	S2G02 no fire
11:08	68	1084	060087	S2G08,09 no fire
11:09	70	1086	060087	S2G02,04 no fire
11:11	74	1090	060087	S2G04 no fire
11:21	100	1116	060087	S2G05 no fire
11:23	105	1121	060087	S2G05 no fire
11:27	114	1130	060087	S2G05 no fire
11:28	116	1132	060087	S2G05 no fire
11:28	117	1133	060087	S2G05 no fire
11:29	120	1136	060087	S2G05 no fire
11:31	125	1141	060087	S2G05 no fire
11:35	134	1150	060087	S2G05 no fire
11:39	146	1162	060087	S2G05 no fire
11:44	158	1174	060087	S2G05 no fire
11:55	185	1201	060087	S2G5 SPARED S2G5 ONLINE
11:55	186	1202	060087	S4G5 DELTA TIMING -3.2
12:28	269	1285	060087	S3G2 DELTA 2.1 MS
12:28	270	1286	060087	S1G8 DELTA 3.8 MS
12:29	271	1287	060087	S1G8 DELTA -2.9 MS

12:48	320	1336	060087	S1G8 DELTA 3.2 MS
12:48	321	1337	060087	S1G8 DELTA -2.5 MS
12:55	339	1355	060087	S1G8 DELTA 3.9 MS
12:56	340	1356	060087	S1G8 DELTA -2.8 MS
13:04	362	1378	060087	S1G8 DELTA 3.9 MS
13:05	363	1379	060087	S1G8 DELTA -3.0 MS
13:05	364	1380	060087	S1G8 DELTA 3.0 MS
13:06	365	1381	060087	S1G8 DELTA -3.0 MS
13:19	398	1414	060087	S1G8 DELTA 3.3 MS
13:19	399	1415	060087	S1G8 DELTA -2.4 MS
13:23	409	1425	060087	S3G1 AUTO FIRE 148.8 MS
13:29	426	1442	060087	S2G7 AUTO FIRE 179.2 MS
13:34	438	1454	060087	S1G8 DELTA 3.4 MS
13:35	439	1455	060087	S1G8 DELTA -2.5 MS
13:43	460	1476	060087	S1G8 DELTA 3.7 MS
13:44	461	1477	060087	S1G8 DELTA -2.9 MS
13:49	476	1492	060087	S1G8 DELTA 3.5 MS
13:50	477	1493	060087	S1G8 DELTA -2.7 MS
14:15	540	1556	060087	S3G1 DELTA 2.1 MS
14:31	581	1597	060087	S1G8 DELTA -2.9 MS
15:19	700	1716	060088	REEL CHANGE 060087-060088
15:21	706	1722	060088	S1G8 DELTA 3.5 MS
15:21	707	1723	060088	S1G8 DELTA -2.8 MS
15:36	740	1756	060088	S1G8 DELTA -2.7 MS
15:37	741	1757	060088	S1G8 DELTA 3.6 MS
15:40	748	1764	060088	S1G8 DELTA 3.5 MS
15:40	749	1765	060088	S1G8 DELTA -2.7 MS
15:50	772	1788	060088	S1G8 DELTA 3.8 MS
15:50	773	1789	060088	S1G8 DELTA -2.9 MS
15:53	737	1753	060088	S1G8 DELTA 3.8 MS
15:53	738	1754	060088	S1G8 DELTA -3.0 MS
16:03	802	1818	060088	s1g08 DELTA 3.7ms
16:03	803	1819	060088	s1g08 delta -2.9ms
16:33	870	1886	060088	s1g08 DELTA 3.7ms
16:33	871	1887	060088	s1g08 delta -2.8ms
17:01	932	1948	060088	s1g08 delta 4.3ms
17:02	933	1949	060088	s1g08 delta -3.4ms
17:06	942	1958	060088	s1g08 delta 3.8ms
17:07	943	1959	060088	s1g08 delta -2.9ms
17:26	984	2000	060088	s1g08 delat 3.7ms
17:26	985	2001	060088	s1g08 delta -2.8ms

17:33	1000	2016	060088	s1g08 delta 3.8ms
17:34	1001	2017	060088	s1g08 delta -2.9ms
17:39	1012	2028	060088	s1g08 delta 3.7ms
17:39	1013	2029	060088	s1g08 delta -2.7ms
17:57	1050	2066	060088	s1g08 delta 3.4ms
17:57	1051	2067	060088	s1g08 delta -2.6ms
18:29	1120	2136	060088	S3G1 No Fire
18:34	1130	2146	060088	s1g08 delta 3.5ms
18:34	1131	2147	060088	s1g08 delta -2.7ms
19:05	1197	2213	060088	S3G1 Auto Fire at 125.6ms
19:16	1221	2237	060088	S3G1 Auto Fire at 125.6ms
19:22	1235	2251	060088	S3G1 Auto Fire at 123.2ms
19:26	1242	2258	060088	s3g1 auto fire at 128.8ms
19:34	1262	2278	060088	s1g08 delta 3.7ms
19:35	1263	2279	060088	s1g8 delta -2.9ms
19:44	1285	2301	060088	s3g1 auto fire at 118.4ms
19:46	1289	2305	060088	s3g1 No Fore
1955	1308	2324	060088	s1g08 delta 3.2ms
1955	1309	2325	060088	s1g08 delta -2.5 ms, s2g09 no fire
1956	1310	2326	060088	s3g01 no fire
1957	1312	2328	060088	s3g01 auto fire 117.6 ms
2015	1353	2369	060088	s3g01 no fire
2017	1358	2374	060088	s3g02 -2.2 ms
2020	1364	2380	060088	s1g08 5.8 ms
2020	1365	2381	060088	s3g01 no fire s1g08 -4.4 ms
2022	1369	2385	060088	S3G01 No fire
2023	1370	2386	060088	S3G01 No fire
2026	1377	2393	060088	S3G01 No fire
2026	1378	2394	060088	S3G01 No fire
2027	1380	2396	060088	S3G01 No fire
2028	1382	2398	060088	S3G01 No fire
2028	1383	2399	060088	S3G01 No fire
2032	1391	2407	060088	S3G01 No fire
2033	1392	2408	060088	S3G01 No fire
2034	1396	2412	060088	S3G01 No fire
2036	1400	2416	060088	S3G01 No fire
2036	1400	2416	060089	REEL CHANGE 060088-060089
2037	1401	2417	060089	S3G01 No fire
2037	1402	2418	060089	S3G01 No fire
2038	1403	2419	060089	S3G01 No fire
2038	1404	2420	060089	S3G01 No fire

2039	1407	2423	060089	S3G01 No fire
2040	1408	2424	060089	S3G01 No fire
2041	1410	2426	060089	S3G01 No fire
2042	1413	2429	060089	S3G01 No fire
2047	1423	2439	060089	S3G01 No fire
2048	1425	2441	060089	S3G01 No fire
2049	1428	2444	060089	S3G01 No fire
2049	1429	2445	060089	S3G01 No fire
2050	1430	2446	060089	S3G01 No fire
2051	1433	2449	060089	S3G01 No fire
2052	1434	2450	060089	S3G01 No fire
2055	1442	2458	060089	S3G01 No fire
2101	1454	2470	060089	S3G01 No fire
2102	1457	2473	060089	S3G01 No fire
2103	1458	2474	060089	S3G01 No fire
2105	1463	2479	060089	S3G01 No fire
2107	1468	2484	060089	S3G01 No fire
2109	1471	2487	060089	S3G01 No fire
2109	1472	2488	060089	S3G01 No fire
2110	1473	2489	060089	S3G01 No fire
2113	1481	2497	060089	S3G01 No fire
2114	1482	2498	060089	S3G01 No fire
2115	1484	2500	060089	S3G01 No fire
2120	1494	2510	060089	S3G01 No fire
2122	1500	2516	060089	S3G01 No fire
2123	1501	2517	060089	S3G01 No fire
2125	1505	2521	060089	S3G01 No fire
2132	1521	2537	060089	S3G01 Auto fire at 132.8 ms
2133	1522	2538	060089	S3G01 No fire
2135	1526	2542	060089	S3G01 No fire
2138	1532	2548	060089	S3G01 No fire
2140	1536	2552	060089	S3G01 No fire
2140	1537	2553	060089	S2G06 No fire
2153	1560	2576	060089	S3G01 No fire
2156	1564	2580	060089	S2G10 NO FIRE
2201	1573	2589	060089	S3G01 No fire
2205	1579	2595	060089	S3G01 No fire
2209	1586	2602	060089	S3G01 No fire
2221	1605	2621	060089	S3G01 No fire
2225	1611	2627	060089	S3G01 No fire
2226	1612	2628	060089	S3G01 Auto fire at 157.6 ms

2256	1655	2671	060089	S3G01 Auto fire at 108.8 ms
2259	1658	2674	060089	S3G05 Auto fire at 622.4 ms
2301	1661	2677	060089	autofire s3g05 33335.2 ms
2303	1664	2680	060089	autofire s3g05 26567.2 ms
2304	1666	2682	060089	autofire s3g05 40223.2.2 ms
2308	1671	2687	060089	autofire s3g05 45421.2 ms
2312	1676	2692	060089	autofire s3g05 663.2.2 ms
2313	1677	2693	060089	S2G05 no fire
2320	1686	2702	060089	s3g01 auto 112ms
2327	1695	2711	060089	S3G01 Delta at 317.6 ms
2357	1730	2746	060089	S3G01 Delta at 101.6 ms
0027	1767	2783	060089	s3g1 auto fire 285.6 ms
0029	1769	2785	060089	s3g1 auto fire 307.2 ms
0043	1786	2802	060089	s3g1 auto fire 128.8 ms
0047	1791	2807	060089	s3g1 auto fire 130.4 ms
0105	1813	2829	060089	s3g1 auto fire 293.6 ms
0116	1825	2841	060089	s3g1 auto fire 129.6 ms
0124	1835	2851	060089	s3g1 auto fire 305.6 ms
0127	1838	2854	060089	s3g1 auto fire 151.2 ms
0130	1841	2857	060089	s3g1 auto fire 140.8 ms
0139	1852	2868	060089	s3g1 auto fire 136.0 ms
0148	1863	2879	060089	s3g2 DELTA -2.7 MS
0152	1868	2884	060089	s3g1 auto fire 301.6 ms,s1g8 delta 4.9 ms
0153	1869	2885	060089	s1g8 delta -3.7 ms
0219	1900	2916	060089	s1g8 delta 5.4 ms
0220	1901	2917	060089	s1g8 delta -4.1 ms
0231	1914	2930	060089	S2G10 no fire
0242	1928	2944	060089	s3g1 auto fire 288.8 ms
0249	1936	2952	060089	S2G9 no fire
0256	1945	2961	060089	s3g1 auto fire 313.6 ms
0314	1966	2982	060089	s3g1 auto fire 298.4 ms
0326	1980	2996	060089	s3g1 auto fire 171.2 ms
0331	1986	3002	060089	s3g1 auto fire 286.4 ms
0334	1990	3006	060089	s1g8 delta 3.6 ms
0335	1991	3007	060089	s1g8 delta -2.9 ms
0409	2032	3048	060089	s1g8 delta 3.2 ms
0410	2033	3049	060089	s1g8 delta -2.5 ms
0417	2043	3059	060089	S2G10 no fire
0435	2068	3084	060089	S2G9,10 no fire, s3g1 auto fire 163 ms
0437	2071	3087	060089	s3g1 auto fire 171.2 ms
0437	2072	3088	060089	S2G9,10 no fire

0448	2088	3104	060089	S3G2,3,4 no fire
0448	2089	3105	060089	S3G2,3,4 no fire
0449	2090	3106	060089	S1G8 delta timing 3.6ms, S3G1 comm error, S3G2,3,4 no fire
0450	2091	3107	060089	S1G8 delta timing -2.9ms, S3G1 comm error, S3G2,3,4 no fire
0450	2092	3108	060089	S3G1 comm error, S3G2,3,4 no fire
0451	2093	3109	060089	S3G1 comm error, S3G2,3,4 no fire
0452	2094	3110	060089	S3G1 comm error, S3G2,3,4 no fire
0452	2095	3111	060089	S3G1 comm error, S3G2,3,4 no fire
0453	2096	3112	060089	S3G1 comm error, S3G2,3,4 no fire
0454	2097	3113	060089	S3G1 comm error, S3G2,3,4 no fire
0454	2098	3114	060089	S3G1 comm error, S3G2,3,4 no fire
0455	2099	3115	060089	S3G1 comm error, S3G2,3,4 no fire
0456	2100	3116	060089	S3G1 comm error, S3G2,3,4 no fire
0456	2101	3117	060090	S3G1 comm error, S3G2,3,4 no fire
0457	2102	3118	060090	S3G1 comm error, S3G2,3,4 no fire
0458	2103	3119	060090	S3G1 comm error, S3G2,3,4 no fire
0458	2104	3120	060090	S3G1 comm error, S3G2,3,4 no fire
0459	2105	3121	060090	S3G1 comm error, S3G2,3,4 no fire
0459	2106	3122	060090	S3G1 comm error, S3G2,3,4 no fire
0500	2107	3123	060090	S3G1 comm error, S2G9, S3G2,3,4 no fire
0500	2108	3124	060090	S1 S2 off begin recovery S3 power cycle.
0503	2112	3128	060090	missed shot S3 and 4 on 20 guns.
0506	2118	3134	060090	S3G5 delta timing-2.5ms.
0535	2164	3180	060090	S1 and S2 on board
05:39	2174	3190	060090	Last Shot END shooting MGL09_06 EOL