

Observers Log

Vessel	Marcus G. Langseth
Client	Jun Korenaga - PI
Area	Shatsky Rise
Job Number	MGL1206

Chief Science Officer	Robert Steinhaus		
Science Officer	Megan Meyer		
Acquisition Leader	Bern Mckiernan 12:00-24:00	Megan Meyer 00:00-12:00	
Navigation Leader	David Ng 12:00-24:00	Mike Martello 00:00-12:00	

	SOL	EOL		
Tape #	001	003	FGSP	28228
SP #	28224	29701	LGSP	29701

Line	MGL1206T1
Sequence	001
Direction	34.5

Streamer Parameters				
	1	2	3	4
Length (m)	6000			
Auxiliaries				
Shotpoint Interval: (m)	50			
Offset CS - CNG (m)	152.7			
Group Interval: (m)	12.5			
Number of channels	468			
Streamer Depth (m)	9m			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	9m
Source Separation	n/a
COS to COS	

Recording Parameters	
Record Length	16
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	103Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
Date MM/DD/YY	03/29/12	03/30/12
Time UTC	20:42	0623
Volume (cu in.)	6600in3	6600in3
Wind (kts)	N5-10	N30
Sea State (m)	1-2m	3-4m
Water Depth (m)	4805m	5157.6m

Cable	EOL High Noise Channels (in u-bar)
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

General / Line Comments
SOL SP 28228
EOL SP
SOL NOISY CHANNELS
7, 9, 10, 29, 40, 138, 141, 141, 143, 206, 337, 359
SP29214 moved the strmr to 10 meter depth due to sea swell
SP29363 moved the strmr to 11 meter depth due to sea swell
EOL NOISY CHANNELS
No EOL channel test sea noise and turn noise on cable

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	FFSP - 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
20:41	1	28224	1	First Shot Point
20:42	3	28228	1	FGSP
20:49	19	28244	1	S3G06 - comm error
20:55	34	28259	1	S3G06 - comm error
22:03	201	28426	1	S3G07 - comm error
23:12	376	28601	1	S3G01 - comm error
23:12	376	28601	1	S3G02 - comm error
23:12	376	28601	1	S3G03 - comm error
23:12	376	28601	1	S3G05 - comm error
23:12	376	28601	1	S3G06 - comm error
23:12	376	28601	1	S3G07 - comm error
23:12	376	28601	1	S3G08 - comm error
23:12	376	28601	1	S3G09 - comm error
23:12	376	28601	1	S3G10 - comm error
23:23	404	28629	1	S3G10 - comm error
00:37	582	28807	1	S1G02 - delta timing error at -2.1 ms
00:36	597	28822	1	S3G08 - comm error
00:42	613	28838	1	S3G08 - comm error
00:52	638	28864	1	S3G10 - comm error
0059	657	28882	2	Reel change
0104	671	28896	2	S3G06 comm error
0109	685	28910	2	S3G06 comm error
0110	688	28913	2	S1G2 dleta -2.7 ms
0200	823	29048	2	S3G09 comm error
0303	987	29212	2	Yellow flag
0303		29213	2	S1G01 - dropped shot & delta timing error at 5.4 ms - observed sea noise
0304	988	29214	2	S1G01 - delta timing error at -3.9 ms - observed sea noise
0322	1037	29260	2	2 shots - observed sea noise
0322	1037	29260	2	S1G09 - Comm error - observed sea noise
0322	1037	29260	2	S2G09 - Comm error - observed sea noise
0322	1037	29260	2	S4G09 - Comm error - observed sea noise
0322	1037	29260	2	S4G10 - Comm error - observed sea noise
0324	1042	29265	2	S4G01 - Delta timing at 3.0 ms - observed sea noise
0324	1043	29266	2	S4G02 - No fire - observed sea noise
0325	1042	29267	2	S4G01 Delta timing at -3.3 ms - observed sea noise
0347	1098	29323	2	S3G08 - comm error - observed sea noise
0347	1099	29324	2	S1G02 - delta timing error at 2.3 ms - observed sea noise
0439	1233	29458	2	S1G02 - delta timing error at 2.1 ms
0453	1266	29491	2	S3G09 - comm error
0511	1314	29536	3	Reel change
0545	1396	2621	3	shot - delta timing error
0545	1396	29621	3	S1G02 - Delta timing at 2.1ms
617	1476	2701	3	EOL

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Acquisition Leader	Bern Mckiernan 12:00-24:00	Megan Meyer 00:00-12:00	
Navigation Leader	David Ng 12:00-24:00	Mike Martello 00:00-12:00	

	SOL	EOL		
Tape #	4	11	FGSP	1029
SP #	1029	5898	LGSP	5898

Line	MGL1206mcs01
Sequence	002
Direction	304.6

Streamer Parameters				
	1	2	3	4
Length (m)	6000			
Auxiliaries				
Shotpoint Interval: (m)	50			
Offset CS - CNG (m)	152.7			
Group Interval: (m)	12.5			
Number of channels	468			
Streamer Depth (m)	9m			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	9m
Source Separation	n/a
COS to COS	

Recording Parameters	
Record Length	16
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	103Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
Date MM/DD/YY	03/30/12	03/31/2012
Time UTC	0634	1549
Volume (cu in.)	6600in3	6420in3
Wind (kts)	NE25	S15
Sea State (m)	3-4m	2-3m
Water Depth (m)	4581.18m	4818.4m

Cable	EOL High Noise Channels (in u-bar)
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

General / Line Comments
SOL SP102 turn noise in record
EOL SP 5898
SOL NOISY CHANNELS
EOL NOISY CHANNELS
SP1810 cable surfaced due to sea swell
SP1926 move strmr to 12 meter depth due to sea swell.
SP4437 reduced volume 3660in3 gun string 4 maint.
SP4561 volume restored to 6420in3 - 4 strings firing

Abbreviations	
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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
0634	1	102	4	SOL MGL1206MCS01 Birds set to 11 meters guns at 9m full volume turn noise in record
0649	58	1086	4	Moved strmer to 10 meter depth
0656	78	1106	4	S1G02 -2.1 ms
0656	79	1107	4	S1G02 2.1 ms
0659	88	1116	4	moved streamer to 9.5 meter depth
0709	119	1147	4	S3G09 - Comm Error
0734	191	1219	4	streamer straight
0753	244	1273	4	Streamer set to 10 meter
0835	369	1397	4	S3G03 comm error
0843	393	1421	4	S3G06- comm error
0859	442	1470	4	S3G02 - autofire at 140.7ms
0859	442	1470	4	S3G02 - DT (Delta Timing) at 7.7ms
0859	443	1471	4	S3G02 - no fire
0859	444	1472	4	S3G02 -DT at -4.6ms
900	445	1473	4	S3G02 - DT at -4.5ms
900	446	1474	4	S3G05 on / S3G02 spared new volume 6420in3
900	446	1474	4	S3G05 - no fire
900	447	1475	4	S3G05 - DT at -5.4ms
901	448	1476	4	S3G05 - DT at -7.9ms
901	449	1477	4	S3G05 - DT at -8.4ms
901	450	1478	4	S3G05 - DT at -2.2ms
908	471	1499	4	S3G08 - comm error
1010	657	1685	5	real change
1052	786	1810	5	Streamer caught sea swell and is going to surface
1117	856	1884	5	S3G10 comm error
1122	868	1896	5	2/3 of streamer set to 12 meters and holding
1132	898	1926	5	All of streamer at 12 meters and holding depth
1134	905	1933	5	S3G06 - comm error
1138	917	1945	5	S2G04 - comm error
1139	918	1946	5	S2G04 to S2G10 - comm error
1140	921	1949	5	S2G04 to S2G06 - comm error
1158	976	2004	5	S2G07 - comm error
1159	980	2008	5	S2G06 - comm error
1204	996	2024	5	S1G02 - DT at -2.5ms
1204	996	2024	5	S2G09 - comm error
1205	997	2025	5	S1G02 - DT at 2.4ms
1211	1017	2045	5	S3G03 to S3G10 - comm error
1223	1053	2081	5	S2G01 - DT at 2.3ms
1251	2163	1135	5	S1G02 - DT at 2.3ms
1305	1171	2200	5	S1G02 - DT at 2.6ms
1308	1187	2216	5	S1G02 - DT at 2.2 ms
1309	1189	2218	5	S1G02 - DT at -2.3ms
1318	1216	2245	5	S1G02 - DT at 2.2ms
1325	1239	2268	5	S1G01 - DT at 2.4ms
1336	1272	2301	5	S3G06 - comm error
1346	1303	2332	5	S3G06 - comm error
1352	1322	2351	5	S3G07 - comm error
1354	1328	2357	5	S3G06 - comm error
1355	1331	2360	6	Reel Change 5-6
1411	1381	2410	6	S3G06 - comm error
1432	1445	2474	6	S3G06 - comm error
1435	1454	2483	6	S1G02 - DT error -2.5ms
1435	1455	2484	6	S3G07 - comm error
1457	1522	2551	6	S3G09 - Comm Error
1613	1743	2770	6	S1G02 - DT error at 2.3ms
1630	1794	2823	6	S1G02 DT error -2.2ms

1725	1953	2982	6	S1G02 DT error 2.3ms
1729	1969	2998	6	Last File Tape 6
1730	1970	2999	7	First File Tape 7
1734	1978	3007	7	S1G02 DT error 2.9ms
1744	2007	3036	7	S3G03 - comm error
1749	2022	3051	7	S1G02 - DT error 2.2ms
1801	2055	3084	7	S3G03 comm error
1802	2058	3197	7	S3G06 comm error
1843	2168	3197	7	S3G06 comm error
1856	2205	3234	7	S1G02 - DT error 2.1ms
1951	2348	3377	7	S3G10 comm error
2011	2400	3429	7	S3G06 comm error
2015	2411	3440	7	S3G06 comm error
2134	2602	3631	7	S3G05 comm error
2143	2624	3653	7	Last File Tape 7
2144	2645	3654	8	First File Tape 8
2253-56		3822-3826	8	Bad Shot NCC - lock up
2328-29	2868	3901-3903	8	Bad Shot NCC - lock up
2359	2936	3971	8	Last Shot D090
0033	3011	4046	8	S3G07 comm error
0058	3070	4104	8	S3G07 comm error
0232	3281	4315	9	Reel Change 8-9
0324-30		4421-4436	9	S4G05-S4G10 not firing
0332		4428-4436	9	String 4 shut down - new volume 5710
0332	3403	4437	9	String 3 on spare; String 1 and 2 operating - new volume 3660
0332	3403	4437	9	S2G05 - delta error at 3.0 ms
0333	3404	4438	9	S2G05 - delta error at -2.1 ms
0501	3525	4560	9	All strings firing - new volume 6420
0502	3526	4561	9	S3G01 Delta Timing at 3.1ms
0502	3526	4561	9	S3G03 Delta Timing at 2.3ms
0502	3526	4561	9	S3G05 No Fire
0502	3526	4561	9	S3G06 Delta Timing at 2.4ms
0502	3527	4562	9	S3G01 Delta Timing at -2.3ms
0502	3527	4562	9	S3G05 Delta Timing at 6.0ms
0503	3528	4563	9	S3G05 Delta Timing at -3.6ms
0832	3822	4857	9	S3G05 Comm Error
0831		4849-4850	9	Restarted Main on SPECTRA lost SP 4849-4850
0927	3901	4935	9	S2G04 no fire
0927	3902	4936	9	S2G04 no fire
0928	3903	4937	9	S2G05 timing 4.6 ms
0928	3904	4938	9	S2G05 timing -3.0 ms
0948	3937	4971	10	reel change
1016	3997	5031	10	S3G06 comm error
1130	4183	5217	10	S3G09 - Comm Error
1138	4203	5237	10	S3G04,05,06,07,08,09,10 comm error
1302	4425	5459	10	S3G10 comm error
1303	4427	4561	10	S3G08 - comm error
1324	4483	5518	10	S2G03 - comm error
1326	4488	5523	10	S2G04 - comm error
1329	4495	5530	10	S2G04 - comm error
1329	4495	5530	10	S2G08 - comm error
1331	4500	5535	10	S2G03, 06, 07, 08, 09 - comm error
1131	4502	5537	10	S2G06, 09, 10 - comm error
1134	4508	5571	10	S2G03 - comm error
1405	4593	5628	11	First File Tape 11
1453	4720	5755	11	S3G09 - Comm Error
1549	4864	5898	11	EOL MGL1206MCS01 - SEQ2
				END OF LINE

Observers Log

Vessel	Marcus G. Langseth
Client	Jun Korenaga - PI
Area	Shatsky Rise
Job Number	MGL1206

Chief Science Officer	Robert Steinhaus		
Science Officer	Megan Meyer		
Acquisition Leader	Bern Mckiernan 12:00-24:00	Megan Meyer 00:00-12:00	
Navigation Leader	David Ng 12:00-24:00	Mike Martello 00:00-12:00	

	SOL	EOL		
Tape #	012	018	FGSP	1005
SP #	1005	5421	LGSP	5421

Line	MGL1206MCS02
Sequence	003
Direction	316.8

Streamer Parameters				
	1	2	3	4
Length (m)	6000			
Auxiliaries				
Shotpoint Interval: (m)	50			
Offset CS - CNG (m)	152.7			
Group Interval: (m)	12.5			
Number of channels	468			
Streamer Depth (m)	12m			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	9m
Source Separation	n/a
COS to COS	

Recording Parameters	
Record Length	16
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	103Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
Date MM/DD/YY	03/31/2012	04/02/2012
Time UTC	15:51	03:46
Volume (cu in.)	6420in3	6420in3
Wind (kts)	S15	S10
Sea State (m)	2-3m	1-2m
Water Depth (m)	4818.4m	5086.9m

Cable	EOL High Noise Channels (in u-bar)
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

General / Line Comments
SOL SP 1005
EOL SP 5421
SOL NOISY CHANNELS
Streamer to remain 12m for MGL1206MCS02 - Seq 3
Sea noise on record
Streamer moved to 16m at SP 2978
Streamer moved to 12m at SP 4379
EOL NOISY CHANNELS
Streamer should remain at 12m for MGL1206MCS03

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	FFSP - 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
1515	001	1005	12	FGSP MGL1206MCS02 SEQ003
1733	216	1221	12	S3G07 comm error
1735	220	1225	12	S3G08 comm error
1816	319	1324	12	S3G08 comm error
1858	420	1425	12	S3G07 comm error
1949	519	1524	12	S3G06 comm error
1959	536	1541	12	send birds to 12.5m
2024	578	1582	12	S3G06 comm error
2027	581	1588	12	S3G06 comm error
2043	609	1614	12	S3G06 comm error
2117	656	1661	12	End of Reel #12
2142	696	1700	13	Intermittent Sea Noise on Records (Winds S @ 30-35 Kts. Gust to 43 Kts. Seas 3-4 m)
2324	857	1861	13	S3G10 comm error
0121	1035	2039	13	S3G06 comm error
0144	1069	2073	13	Set birds to 12.8 m
0150	1078	2082	13	Set birds to 13.8 m
0415	1307	2311	13	S3G04-S3G10 - comm error
0419	1313	2317	13	End of Reel #13
0455	1375	2379	14	S1G02 - DT 2.5ms
0532	1440	2444	14	S3G06 - comm error
0540	1453	2457	14	S1G02 - DT 2.1ms
0625	1531	2535	14	S1G02 - DT 2.4 ms
0625	1532	2536	14	streamer set to 15m
0659	1589	2593	14	S2G06 no fire
0734	1645	2649	14	power down seal
0738	1648	2652	14	S3G03 - comm error
0752	1674-1675	2678-2679	14	no shot fired
0752	1676	2680	14	start rampup
0811	1706	2710	14	S3G06 - comm error
0813	1710	2714	14	S3G05 - DT 2.2ms
0814	1712	2716	14	S3G10 - comm error
0826	1730	2734	14	S2G09 - DT 3.9ms
0827	1731	2735	14	S2G09 - DT -2.6ms
0827	1732	2736	14	S1G10 - DT 2.5 ms
0827	1732	2736	14	S2G09 - DT -2.6ms
0829	1734	2738	14	S1G09 - DT 2.5 ms
0831	1738	2742	14	S4G01 -DT 2.2 ms
0835	1744	2748	14	S2G01 - DT 2.6 ms
0836	1745	2749	14	S2G01 - DT -2.2 ms
0836	1746	2750	14	S2G01 - DT -2.6ms/rampup complete
0840	1752	2756	14	S3G06 - comm error
0908	1796	2800	14	S3G08 - comm error
0940	1849	2853	14	S1G02 - 2.5 ms
1039	1953	2957	14	S3G06 - comm error
1048	1969	2973	15	reel change
1050	1974	2978	15	streamer set to 16m
1106	2003	3007	15	S1G02 - 2.2ms

1131	2053	3057	15	S3G06 - comm error
1207	2126	3130	15	S3G04 to S3G10 - comm error
1314	2272	3277	15	S1G02 DT error -2.2ms
1408	2396	3401	15	Send birds to 14m
1423	2434	3439	15	S3G10 - comm error
1426	2441	3446	15	S3G06 - comm error
1452	2508	3513	15	S3G08 - comm error
1507	2547	3552	15	S1G02 DT error 2.6ms
1508	2549	3554	15	S3G08 comm error
1510	2553	3558	15	S3G09 - comm error
1536	2624	3629	15	Last file tape 15
1536	2625	3630	16	First file tape 16
1550	2663	3668	16	S3G09 - comm error
1644	2800	3805	16	S3G02, G03, G04, G05, G06, G07, G08, G09, G10 - comm error
1647	2808	3813	16	S3G10 - comm error
1654	2824	3829	16	S3G06 - comm error
1711	2864	3869	16	S3G06 - comm error
1754	2969	3974	16	S3G03 - comm error
1820	3034	4039	16	S3G09 - comm error
1828	3053	4058	16	S3G10 - comm error
1921	3179	4183	16	S1G02 Delta Timing at -2.2ms
2001	3280	4283	16	Last File Tape 16
2001	3281	4284	17	First File Tape 17
2038	3374	4379	17	Send Birds to 12m
2202	3575	4580	17	S3G10 - comm error
2242	3673	4677	17	S3G09 - comm error
2243	3675	4679	17	S1G02 - delta timing error at 2.2 ms
2245	3679	4683	17	S1G02 - delta timing error at 2.1 ms
2248	3686	4690	17	S3G03 - comm error
2249	3690	4694	17	S1G02 - delta timing error at -2.1 ms
2302	3721	4726	17	S1G02 - DT 3.7ms
2304	3724	4729	17	S1G02 - DT -2.2ms
2310	3739	4744	17	S1G09 - comm error
2310	3740	4745	17	S1G02 - DT 2.2ms
2317	3756	4761	17	S1G02 - delta timing error at -2.4 ms
2321	3766	4771	17	S1G02 - DT -2.4ms
2325	3776	4781	17	S1G02 - DT -2.1ms
2326	3777	4782	17	S1G02 - DT 2.3ms
2326	3779	4784	17	S1G02 - DT -2.3ms
2330	3788	4793	17	S1G02 - DT -2.2ms
2339	3810	4815	17	S1G02 - DT 2.8ms
2346	3828	4833	17	S1G02 - DT -2.1ms
2350	3838	4843	17	S1G02 - DT 2.4ms
2356	3852	4857	17	S1G02 - DT -2.3ms
2357	3855	4860	17	S1G02 - DT -2.1ms
0029	3936	4940	17	Last File Tape 17
0030	3937	4941	18	First File Tape 18
0106	4030	5034	18	S3G06 - comm error
0126	4080	5084	18	S3G05 - comm error
0335	4390	5394	18	Start of turn
0338	4398	5402	18	S3G03 - comm error
0346	4417	5421	18	Last shot - end of line

Observers Log

Vessel	Marcus G. Langseth
Client	Jun Korenaga - PI
Area	Shatski Rise
Job Number	MGL1206

Chief Science Officer	Robert Steinhaus		
Science Officer	Megan Meyer		
Acquisition Leader	Bern Mckiernan 12:00-24:00	Megan Meyer 00:00-12:00	
Navigation Leader	David Ng 12:00-24:00	Mike Martello 00:00-12:00	

	SOL	EOL		
Tape #	19	27	FGSP	1168
SP #	1168	6498	LGSP	6498

Line	MGL1206MCS03
Sequence	004
Direction	91.4

Streamer Parameters				
	1	2	3	4
Length (m)	6000			
Auxiliaries				
Shotpoint Interval: (m)	50			
Offset CS - CNG (m)	152.7			
Group Interval: (m)	12.5			
Number of channels	468			
Streamer Depth (m)	12M			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	9m
Source Separation	n/a
COS to COS	

Recording Parameters	
Record Length	16
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	103Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
Date MM/DD/YY	04/02/12	04/03/2012
Time UTC	0427	1055
Volume (cu in.)	6420in3	6380in3in3
Wind (kts)	E5	E17
Sea State (m)	0-1m	1-2m
Water Depth (m)	5034.4m	4702.4m

Cable	EOL High Noise Channels (in u-bar)
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

General / Line Comments
SOL SP1168
EOL SP6498
SOL NOISY CHANNELS ot performed due to turn noise in record
EOL NOISY CHANNELS - (>15 uBar) 7,9,10,29,30,141,143,170,230,233,236,278,279,337,396, & 457

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	FFSP - 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
0427	1	1168	19	SOL MGL1206_MCS03 SEQ004 turn noise in record
0431	14	1181	19	S1G02 no fire
0431	15	1182	19	S1G02 no fire
0431	16	1183	19	S1G02 no fire
0431	17	1184	19	S1G02 no fire
0432	18	1185	19	S1G02 no fire
0433	21	1187	19	disable S1G02 enable S1G05 enable S4G05 new volume 6380 in3
0433	22	1188	19	delta timing errors
0447	68	1236	19	Dropped SP 1235 due to vessel SOG exceeding 5.5 KTS
0518	168	1336	19	Turn noise abated
0535	223	1391	19	S3G05 - No fire
0535	224	1392	19	S3G05 - No fire
0549	271	1439	19	S3G05 - 2.5ms
0551	277	1445	19	S3G05 - -2.7ms
0552	279	1447	19	S3G05 - 2.1ms
0553	283	1451	19	S3G05 - -2.3ms
0554	286	1454	19	S3G05 - 2.1ms
0555	287	1455	19	S3G05 - -2.5ms
0555	288	1456	19	S3G05 - 6ms
0555	291	1459	19	S3G05 - -4.4ms
0556	292	1460	19	S3G05 - 2.3ms
0557	295	1463	19	S3G05 - -3.4ms
0557	296	1464	19	S3G05 - -3.9ms
0557	297	1465	19	S3G05 - -2.6ms
0558	298	1466	19	S3G05 - 2.5ms
0558	299	1467	19	S3G05 - 5.1ms
0558	300	1468	19	S3G05 - 11.9ms
0559	301	1469	19	S3G05 - -10.1ms
0559	302	1470	19	S3G05 - 7.5ms
0559	303	1471	19	S3G05 - 5.9ms
0559	304	1472	19	S3G05 - 10.5ms
0601	308	1476	19	S3G05 - -2.1ms
0601	311	1479	19	S3G05 - -3.3ms
0603	317	1485	19	S3G05 --7.1ms
0613	344	1517	19	Dropped shot
0634	417	1587	19	S3G06 comm error
0641	439	1609	19	S3G03 comm error
0711	533	1703	19	S3G06 - comm error
0749	658	1826	20	tape change
0752	665	1835	20	S3G04 to S3G10 - comm error
0759	686	1856	20	S3G09 - comm error
0812	728	1898	20	S3G06 - comm error
0905	898	2068	20	S3G06 - comm error
1049	1231	2401	20	S3G02 to S3G10 - comm error
1108	1293	2463	20	S3G06 - Comm error
1111	1304	2472	21	tape change
1130	1363	2533	21	S3G06 - comm error
1219	1524	2694	21	S3G10 - Comm Error
1319	2890	2889	21	Bad Shot
1352	1825	2997	21	S3G03 comm error
1412	1891	3063	21	S3G06 comm error
1436	1968	3141	21	Last File Tape 21
1436	1969	3142	22	First File Tape 22
1517	2100	3272	22	S3G03 comm error
1622	2307	3479	22	S3G02, 03, 04, 05, 06, 07, 08, 09, 10 - comm error
1625	2319	3490	22	S3G05 comm error
1629	2329	3501	22	S3G06 comm error
1649	2394	3566	22	S3G09 comm error
1710	2456	3628	22	S3G03 comm error
1808	2624	3795	22	Last File Tape 22
1808	2625	3796	23	First File Tape 23
1812	2637	3809	23	S3G10 comm error

1905	2778	3948	23	Ship noise in record
1906	2781	3953	23	S3G03 comm error
1959	2916	4088	23	S3G03 comm error
2000	2918	4090	23	S3G08 comm error
2117	3109	4281	23	S4G01 delta timing error at -2.7 ms
2127	3133	4305	23	S3G07 comm error
2137	3157	4329	23	S4G01 delta timing error at 2.2 ms
2141	3167	4339	23	S4G01 delta timing error at -2.2 ms
2144	3174	4346	23	S4G01 delta timing error at 2.5 ms
2155	3202	4374	23	S3G05 comm error
2202	3221	4393	23	S3G05 delta timing error at 2.4 ms
2203	3222	4394	23	S3G03 comm error; S3G05 delta timing error at -2.1 ms
2205	3227	4399	23	S4G01 delta timing error at 2.2 ms
2208	3234	4406	23	S3G09 comm error
2208	3235	4407	23	S4G01 delta timing error at 2.2 ms
2209	3236	4408	23	S4G01 delta timing error at -4.4 ms
2211	3243	4415	23	S4G01 delta timing error at -2.3 ms
2217	3257	4429	23	S4G01 delta timing error at 2.1 ms
2224	3275	4447	23	S4G01 delta timing error at -2.4 ms
2226	3280	4451	23	Last file tape 23
2226	3281	4452	24	First file tape 24
2310	3392	4563	24	S4G01 delta timing error at -2.1 ms
2321	3419	4590	24	S3G03 comm error
2327	3434	4605	24	S4G01 delta timing error at -2.5 ms
2330	3441	4612	24	S4G01 delta timing error at -2.1 ms
2339	3464	4635	24	S3G05 comm error
2343	3473	4644	24	S3G09 comm error
2352	3496	4667	24	S4G01 delta timing error at -2.5 ms
0043	3624	4796	24	S4G01 delta timing error at 11.7 ms
0044	3626	4798	24	S4G01 delta timing error at -5.8 ms
0044	3627	4799	24	S4G01 delta timing error at 5.3 ms
0045	3630	4802	24	S4G01 delta timing error at -7.4 ms
0046	3631	4803	24	S4G01 delta timing error at 2.6 ms
0046	3633	4805	24	S4G01 delta timing error at -4.6 ms
0047	3634	4806	24	S4G01 delta timing error at -4.1 ms
0050	3642	4814	24	S4G01 delta timing error at -10.6 ms
0050	3643	4815	24	S4G01 delta timing error at -2.1 ms
0055	3656	4828	24	S4G01 delta timing error at 2.7 ms
0057	3660	4832	24	S4G01 delta timing error at -6.9 ms
0102	3673	4845	24	S4G01 delta timing error at 9.1 ms
0103	3676	4848	24	S3G10 comm error
0110	3695	4866	24	S4G01 delta timing error at -10.6 ms
0118	3714	4885	24	S4G01 delta timing error at -2.3 ms
0118	3715	4886	24	S4G01 delta timing error at 3.3
0122	3725	4896	24	S4G01 delta timing error at 2.2 ms
0124	3729	4900	24	S4G01 delta timing error at 2.2 ms
0124	3730	4901	24	S4G01 delta timing error at 2.3 ms
0125	3732	4903	24	S4G01 delta timing error at 2.2 ms
0128	3741	4912	24	S4G01 delta timing error at 3.1 ms
0129	3743	4914	24	Changed S4G01 sensitivity to 3.0 ms
0140	3772	4943	24	S4G01 delta timing error at 3.2 ms
0143	3780	4951	24	S4G01 delta timing error at 4.1 ms
0143	3781	4952	24	S4G01 delta timing error at 3.9 ms
0144	3782	4953	24	S4G01 delta timing error at 3.7 ms
0148	3793	4964	24	S4G01 delta timing error at 3.3 ms
0148	3794	4965	24	S4G01 delta timing error at 3.6 ms
0151	3802	4973	24	S4G01 delta timing error at 3.1 ms
0155	3812	4983	24	S4G01 delta timing error at 5.3 ms
0156	3815	4986	24	S4G01 delta timing error at 3.3 ms
0202	3830	5001	24	S4G01 delta timing error at 3.2 ms
0203	3833	5004	24	S4G01 delta timing error at 3.9 ms
0205	3839	5010	24	S4G01 delta timing error at 3.2 ms
0206	3840	5011	24	S3G05 - S3G10 comm error
0207	3844	5015	24	S4G01 delta timing error at 4.3 ms

0207	3845	5016	24	S4G01 delta timing error at 3.6 ms
0209	3848	5019	24	S4G01 delta timing error at 3.3 ms
0211	3854	5025	24	S4G01 delta timing error at 3.1 ms
0213	3860	5031	24	S4G01 delta timing error at 3.1 ms
0217	3871	5042	24	S4G01 delta timing error at 3.2 ms
0218	3873	5044	24	S4G01 delta timing error at 3.3 ms
0219	3877	5048	24	S4G01 delta timing error at 3.1 ms
0223	3887	5058	24	S4G01 delta timing error at 3.4 ms
0224	3890	5061	24	S4G01 delta timing error at 3.1 ms
0227	3896	5067	24	S4G01 delta timing error at 3.2 ms
0228	3900	5071	24	S4G01 delta timing error at 4.3 ms
0235	3918	5089	24	S4G01 delta timing error at 3.9 ms
0237	3924	5095	24	S4G01 delta timing error at 3.2 ms
0240	3931	5102	24	S4G01 delta timing error at 3.3 ms
0242	3936	5107	24	Last file tape 24
0243	3937	5108	25	First file tape 25
0246	3948	5119	25	S4G01 delta timing error at 4.0 ms
0247	3949	5120	25	S4G01 delta timing error at 3.7 ms
0247	3950	5121	25	S4G01 delta timing error at 3.9 ms
0249	3956	5127	25	S4G01 delta timing error at 3.3 ms
0253	3967	5138	25	S4G01 delta timing error at 3.4 ms
0313	4021	5192	25	S4G01 delta timing error at 3.4 ms
0318	4033	5204	25	S4G01 delta timing error at 3.1 ms
0323	4049	5220	25	S4G01 delta timing error at 4.1 ms
0324	4051	5222	25	S4G01 delta timing error at 4.3 ms
0324	4052	5223	25	S4G01 delta timing error at 3.7 ms
0325	4053	5224	25	S4G01 delta timing error at 4.1 ms
0325	4054	5225	25	S4G01 delta timing error at -8.7 ms
0326	4055	5226	25	S4G01 delta timing error at -12.7 ms
0326	4056	5227	25	S4G01 delta timing error at 4.7 ms
0335	4081	5252	25	S4G01 delta timing error at 3.1 ms
0338	4090	5261	25	S4G01 delta timing error at 5.3 ms
0339	4091	5262	25	S4G01 delta timing error at 3.6 ms
0339	4092	5263	25	S4G01 delta timing error at 4.6 ms
0339	4093	5264	25	S4G01 delta timing error at 3.5 ms
0340	4094	5265	25	S4G01 delta timing error at 3.2 ms
0340	4095	5266	25	S4G01 delta timing error at 3.3 ms
0341	4096	5267	25	S4G01 delta timing error at 3.4 ms
0354	4131	5302	25	S4G01 delta timing error at 3.2 ms
0354	4132	5303	25	S4G01 delta timing error at 3.2 ms
0354	4133	5304	25	S4G01 delta timing error at 3.6 ms
0359	4147	5318	25	S3G06 comm error
0401	4151	5322	25	S4G01 delta timing error at 4.0 ms
0402	4152	5323	25	S4G01 delta timing error at 3.1 ms
0402	4153	5324	25	S4G01 delta timing error at 3.9 ms
0422	4211	5382	25	S4G01 delta timing error at 3.1 ms
0424	4216	5387	25	S4G01 delta timing error at 3.4 ms
0425	4217	5388	25	S4G01 delta timing error at 3.8 ms
0425	4218	5389	25	S4G01 delta timing error at 3.6 ms
0425	4219	5390	25	S4G01 delta timing error at 3.3 ms
0426	4220	5391	25	S4G01 delta timing error at 3.1 ms
0448	4282	5453	25	S4G01 delta timing error at 3.4 ms
0458	4310	5481	25	S4G01 - 3.2ms
0519	4369	5540	25	S4G01 - 3.4ms
0519	4370	5541	25	S4G01 - 3.6ms
0520	4371	5542	25	S4G01 - 4.1 ms
0520	4372	5543	25	S4G01 - 3.1ms
0525	4385	5556	25	S4G01 - 3.7ms
0525	4386	5557	25	S4G01 - 3.4ms
0526	4388	5559	25	S4G01 - 3.7ms
0532	4406	5577	25	S4G01 - 3.4 ms
0533	4408	5579	25	S4G01 - 3.1ms
0534	4409	5580	25	S4G01 - 3.3 ms
0545	4441	5611	25	S4G01 - 3.4 ms

0545	4442	5612	25	S4G01 - 3.7 ms
0555	4469	5640	25	S4G01 - 3.8 ms
0605	4497	5668	25	S4G01 - Comm error
0622	4544	5715	25	S4G01 - 3.6ms
0625	4552	5723	25	S4G01 - 3.2 ms
0630	4566	5737	25	S4G01 - 3.2 ms
0632	4571	5742	25	S4G01 - Comm error
0635	4578	5749	25	S4G01 - 4.1 ms
0635	4579	5750	25	S4G01 - 3.7 ms
0635	4580	5751	25	S4G01 - 4.3 ms
0641	4591	5762	25	Last File Tape 25
0641	4592	5763	26	First File Tape 26
0643	4601	5773	26	S3G08 Comm Error
0710	4675	5847	26	S4G01 - 3.1ms
0711	4677	5849	26	S4G01 - 3.5 ms
0712	4678	5850	26	S4G01 - 3.2 ms
0713	4683	5855	26	S4G01 - 3.5 ms
0716	4690	5862	26	S4G01 - 3.3 ms
0716	4691	5863	26	S4G01 - 4.1 ms
0717	4693	5865	26	S4G01 - 3.6ms
0726	4718	5890	26	S3G10 Comm Error
0732	4738	5909	26	S4G01 - 3.3 ms
0734	4742	5913	26	S4G01 - 3.8 ms
0734	4743	5914	26	S4G01 - 3.2
0735	4744	5915	26	S4G01 - 3.7 ms
0816	4862	6033	26	S4G01 - 4.0 ms
0817	4864	6035	26	S4G01 - 3.9 ms
0819	4869	6040	26	S4G01 - 3.1 ms
0820	4873	6044	26	S4G01 - 3.4 ms
0821	4876	6047	26	S4G01 - 4.2 ms
0821	4877	6048	26	S4G01 - 3.6 ms
0823	4881	6052	26	S4G01 - 4.1 ms
0830	4901	6072	26	S4G01 - 3.1 ms
0841	4934	6105	26	S4G01 - 3.2 ms
0843	4939	6110	26	S4G01 - 3.1 ms
0844	4941	6112	26	S4G01 - 3.3 ms
0846	4947	6118	26	S4G01 - 3.1 ms
0846	4948	6119	26	S4G01 - 3.1 ms
0851	4963	6134	26	S4G01 - 3.1 ms
0854	4971	6142	26	S4G01 - 3.6 ms
0908	5011	6182	26	S4G01 - 3.9 ms
0909	5014	6185	26	S4G01 - 3.6 ms
0909	5015	6186	26	S4G01 - 4.2 ms
0913	5028	6199	26	S4G01 - 3.4 ms
0916	5037	6208	26	S4G01 - 3.8 ms
0919	5045	6216	26	S4G01 - 3.2 ms
0920	5048	6219	26	S4G01 - 3.1 ms
0921	5051	6222	26	S4G01 - 3.1 ms
0946	5124	6295	26	S4G01 - 3.2 ms
1028	5248	6420	26	Last File Tape 26
1028	5249	6421	27	First File Tape 27
1034	5267	6439	27	S4G01 - 3.6 ms
1035	5268	6440	27	S4G01 - 3.6 ms
1035	5269	6441	27	S4G01 - 3.1 ms
1036	5271	6443	27	S4G01 - 3.5 ms
1036	5272	6444	27	S4G01 - 3.3 ms
1036	5273	6445	27	S4G01 - 4.1 ms
1037	5276	6448	27	S4G01 - 3.1 ms
1038	5278	6450	27	S4G01 - 3.2 ms
1039	5281	6453	27	S4G01 - 3.4 ms
1040	5283	6455	27	S3G03 Comm Error
1052	5318	6490	27	S4G01 - 3.2 ms
1055	5326	6498	27	EOL

Observers Log

20

Vessel	Marcus G. Langseth
Client	Jun Korenaga - PI
Area	Shatsky Rise
Job Number	MGL1206

Chief Science Officer	Robert Steinhaus		
Science Officer	Megan Meyer		
Acquisition Leader	Bern Mckiernan 12:00-24:00	Megan Meyer 00:00-12:00	
Navigation Leader	David Ng 12:00-24:00	Mike Martello 00:00-12:00	

	SOL	EOL		
Tape #	28	36	FGSP	943
SP #	916	6841	LGSP	6841

Line	MGL1206MCS04
Sequence	005
Direction	198.9

Streamer Parameters				
	1	2	3	4
Length (m)	6000			
Auxiliaries				
Shotpoint Interval: (m)	50			
Offset CS - CNG (m)	152.7			
Group Interval: (m)	12.5			
Number of channels	468			
Streamer Depth (m)	12m			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	9m
Source Separation	n/a
COS to COS	

Recording Parameters	
Record Length	16
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	103Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
Date MM/DD/YY	04/03/2012	04/04/2012
Time UTC	13:18	23:45
Volume (cu in.)	6560in3	6140in3
Wind (kts)	E15-20	SSW 6
Sea State (m)	1-3m	1-3 m
Water Depth (m)	4697m	2902m

Cable	EOL High Noise Channels (in u-bar)
1	See Comments Below
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

General / Line Comments
SOL SP - 916
EOL SP - 6841
SOL NOISY CHANNELS - (>15 uBar) 7,9,10,29,30,141,143,170,230,233,236,278,279,337,396, & 457
EOL NOISY CHANNELS - (>15 uBar) 7, 9, 10, 13, 14, 20, 24, 29, 30, 141, 143, 186, 233, 236, 333, 337, 406, 407, 429, 456, 457

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	FFSP - 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
1318	001	916	28	First Shot MGL1206MCS04
1325	027	943	28	FGSP - MGL1206MCS04
1325	027	943	28	Turn Noise in Record
1326	029	945	28	Dropped Shot
1353	099	1029	28	S4G1 - DT6.3ms
1354	100	1060	28	S4G1 - DT4.9ms
1354	101	1031	28	S4G01 - DT4.3ms
1354	102	1032	28	S4G01 - DT4.2ms
1355	104	1034	28	S4G01 - DT3.1ms
1357	111	1041	28	S4G01 - DT3.4ms
1357	112	1042	28	S4G01 - DT3.8ms
1423	136	1066	28	S3G06 - comm error
1424	197	1127	28	S4G01 - DT3.4ms
1425	198	1128	28	S4G01 - DT3.1ms
1425	203	1133	28	S4G01 - DT4.1ms
1425	204	1134	28	S4G01 - DT 3.5ms
1426	205	1135	28	S4G01 - DT4.2ms
1427	209	1139	28	S4G01 - DT3.4ms
1430	219	1149	28	S4G01 - DT3.1ms
1433	228	1158	28	S4G01 - DT3.5ms
1434	231	1161	28	S4G01 - DT3.6ms
1438	244	1174	28	S3G06 - comm error
1440	251	1181	28	S3G06 - comm error
1451	286	1216	28	S4G01 - DT3.1ms
1516	269	1299	28	S3G07 - comm error
1530	415	1345	28	S4G01 - DT 3.6ms
1545	162	1392	28	S3G09 - comm error
1608	536	1466	28	S4G01 - DT3.2ms
1626	595	1525	28	S4G01 - DT3.4ms
1637	631	1531	28	S4G01 - DT4.1ms
1642	647	1577	28	S4G01 - DT 3.6ms
1645	656	1585	28	Last File Tape 28
1645	657	1586	29	First File Tape 29
1648	668	1598	29	S4G01 DT4.6ms
1649	669	1599	29	S4G01 DT3.6ms
1625	695	1625	29	S4G01 - DT3.6ms
1700	705	1635	29	S4G01 - DT3.4ms
1701	707	1637	29	S4G01 - DT3.3ms
1709	734	1664	29	S4G01 - DT 3.1ms
1713	744	1674	29	S4G01 - DT3.1ms
1717	759	1689	29	S3G09 - comm error
1719	764	1694	29	S4G01 - DT3.2ms
1753	875	1805	29	S3G03, 04, 05, 06, 07, 08, 09, 10 - comm error
1843	1038	1968	29	S3G08 - comm error
1951	1253	2183	29	S4G01 - Delta Timing at 4.0ms
2009	1312	2242	29	EOR
2010	1313	2243	30	SOR
2014	1329	2259	30	S3G07 - comm error
2044	1424	2353	30	S4G01 - DT3.3ms
2057	1465	2394	30	S3G06 - comm error
2124	1549	2478	30	S3G09 - comm error
2131	1571	2500	30	S3G03 - comm error
2142	1607	2536	30	S4G04 - no fire
2143	1608	2537	30	S4G04 - no fire
2143	1609	2538	30	S4G04 - no fire
2143	1610	2539	30	S4G04 - no fire
2144	1611	2540	30	S4G04 - delta timing error at 9.4 ms
2144	1612	2541	30	S4G04 - delta timing error at 9.4 ms

2144	1613	2542	30	S4G04 - delta timing error at -4.1 ms
2149	1628	2557	30	S3G09 - comm error
2158	1656	2585	30	S4G04 - no fire
2158	1657	2586	30	S4G04 - delta timing error at -10.7 ms
2159	1658	2587	30	S4G04 - delta timing error at 5.4 ms
2204	1674	2603	30	S4G04 - auto fire
2204	1675	2604	30	S4G04 - auto fire
2204	1676	2605	30	S4G04 - auto fire
2204	1677	2606	30	S4G04 - auto fire
2205	1678	2607	30	S4G04 - auto fire
2205	1678	2607	30	S4G04 - delta timing error at 8.8 ms
2205	1679	2608	30	S4G04 - delta timing error at -4.2 ms
2206	1681	2610	30	S4G04 - auto fire
2219	1721	2650	30	S4G01 - delta timing error at 3.1 ms
2230	1753	2683	30	S3G06 - comm error
2235	1768	2697	30	S4G01 - delta timing error at 3.1 ms
2238	1777	2706	30	S4G01 - delta timing error at 3.3 ms
2251	1816	2745	30	S4G04 - delta timing error at 3.9 ms
2304	1854	2783	30	S4G04 - delta timing error at 4.6 ms
2304	1855	2784	30	S4G04 - delta timing error at -3.3 ms
2343	1968	2897	30	End of Tape 30
2344	1969	2898	31	Start of Tape 31
0024	2082	3011	31	S3G08 - comm error
0211	2373	3302	31	S3G06 - comm error
0344	2624	3553	31	End of Tape 31
0344	2625	3554	32	Start of Tape 32
0503	2851	3780	32	S3G03 - Comm Error
0511	2874	3803	32	S3G03 - Comm error
0530	2927	3856	32	S3G06 - comm error
0532	2934	3863	32	S4G04 - -6.2ms sea noise in records
0539	2954	3883	32	S3G10 - Comm Error
0604	2025	3954	32	S3G06 - comm error
0611	3042	3971	32	S3G09 - comm error
		3995	32	drop shot
0632	3102	4032	32	S3G04,5,6,7,8,9,10 comm error
0632	3103	4033	32	S3G07 comm error
0733	3281	4211	33	reel change

0805	3370	4300	33	S4G04 - -3.1ms
0811	3387	4317	33	S4G04 - -7.4ms
0820	3411	4341	33	S4G04 - -10.9ms
0826	3428	4358	33	S2G08 - No Fire
0826	3429	4359	33	S2G08 - No Fire
0826	3430	4360	33	S2G08 - No Fire
0827	3431	4361	33	S2G08 - No Fire
0827	3432	4362	33	S2G08 - No Fire
0827	3433	4363	33	S2G08 - No Fire
0828	3434	4364	33	disable S2G08 (no fire)
0922	3586	4516	33	S3G08 - comm error
0941	3639	4569	33	S4G04 no fire
0941	3640	4570	33	s4g04 no fire
0942	3641	4571	33	s4g04 timing -10.8 ms
0942	3642	4572	33	s4g04 timing -11.3 ms
0943	3643	4573	33	S4G04 no fire
0943	3644	4574	33	S4G04 no fire disabled
0943	3645	4575	33	S1G05 enabled no fire
1038	3798	4728	33	S4G01 - -3.1ms
1104	3865	4795	33	S4G06 - comm error
1109	3876	4806	33	S1G02 - dt at 3.1 ms
1119	3900	4830	33	S3G06 - Comm Error
1128	3920	4850	33	Streamer set to 13m
1134	3937	4867	34	tape change
1155	3986	4916	34	S1G02 - dt at 3.2 ms
1202	4001	4937	34	set srtrmr to 14 m
1210	4022	4952	34	set srtrmr to 15 m
1304	4146	5077	34	S1G02- DT Error -3.4ms
1306	4150	5081	34	S2G03 - comm error
1357	4269	5200	34	S2G06 -comm error
1501	4418	5349	34	S3G08 - comm error
1610	4592	5523	34	Last File Tape 34
1638	4665	5524	35	First File Tape 35
1839	4977	5908	35	S1G01 DT 3.8ms
1920	5093	6024	35	S1G02 DT 3.5ms
1934	5133	6063	35	S4G02 DT 8ms
1957	5201	6132	35	S4G02 DT -11.4ms
2002	5215	6145	35	S4G02 - Next 10 shots NO FIRE
2005	5225	6155	35	S4G02 - Disable - new volume 6140 in3
2013	5248	6178	35	Last File Tape 35
2013	5249	6179	36	First File Tape 36
2023	5277	6208	36	S3G08 - comm error
2028	5294	6225	36	S1G02 - delta timing error at 3.1 ms
2049	5358	6289	36	Drop Shot
2057	5382	6314	36	S1G02 DT 3.4ms
	5434	6365	36	drop shot
2118		6317	36	Drop Shot 6371, 6373, 6377, - Speed Request Slow Down
2126	5468	6406	36	Drop Shot
2133	5490	6428	36	S3G07 - comm error
2145	5528	6466	36	Drop Shot
2146	5531	6470	36	S1G02 dt -3.2
2204	5586	6525	36	S1G02 dt -3.6ms
2215	5621	6560	36	Drop Shot
2226	5655	6594	36	S1G02 - delta timing error at 4.1 ms
2226	5657	6596	36	S1G02 - delta timing error at -3.3 ms
2244	5710	6650	36	S1G02 - delta timing error at 3.3 ms

Observers Log

20

Vessel	Marcus G. Langseth
Client	Jun Korenaga - PI
Area	Shatsky Rise
Job Number	MGL1206

Chief Science Officer	Robert Steinhaus		
Science Officer	Megan Meyer		
Acquisition Leader	Bern Mckiernan 12:00-24:00	Megan Meyer 00:00-12:00	
Navigation Leader	David Ng 12:00-24:00	Mike Martello 00:00-12:00	

	SOL	EOL		
Tape #	37	39	FGSP	846
SP #	834	2598	LGSP	2541

Line	MGL1206MCSD2
Sequence	006
Direction	92.5

Streamer Parameters				
	1	2	3	4
Length (m)	6000			
Auxiliaries				
Shotpoint Interval: (m)	50			
Offset CS - CNG (m)	152.7			
Group Interval: (m)	12.5			
Number of channels	468			
Streamer Depth (m)	9m			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	9m
Source Separation	n/a
COS to COS	

Recording Parameters	
Record Length	16
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	103Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
Date MM/DD/YY	04/05/2012	04/05/2012
Time UTC	0234	1155
Volume (cu in.)	6540in3	4590in3
Wind (kts)	SW 2	SE 15
Sea State (m)	1m	1m
Water Depth (m)	2897.0m	4196.2m

Cable	EOL High Noise Channels (in u-bar)
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

General / Line Comments
SOL SP - 834
EOL SP - 2598
SOL NOISY CHANNELS - (>15 uBar) 7, 9, 10, 13, 14, 20, 24, 29, 30, 141, 143, 186, 233, 236, 333, 337, 406, 407, 429, 456, 457
EOL NOISY CHANNELS

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	FFSP - 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
0234	1	834	37	S4G01 delta timing error at 3.4 ms
0234	1	834	37	S4G02 delta timing error at 3.3 ms
0234	2	835	37	S4G01 delta timing error at 3 ms
0234	2	835	37	S4G02 delta timing error at 3 ms
0235	3	836	37	S4G01 delta timing error at 4.2 ms
0235	4	837	37	S4G01 delta timing error at 3.8 ms
0235	5	838	37	S4G01 delta timing error at 3.7 ms
0236	6	839	37	S4G01 delta timing error at 4.6 ms
0236	7	840	37	S4G01 delta timing error at 4.4 ms
0237	11	844	37	S4G01 delta timing error at 4.5 ms
0237	12	845	37	S4G01 delta timing error at 4.3 ms
0238	13	846	37	First good shot
0241	22	855	37	S4G01 delta timing error at 5.5 ms
0241	22	855	37	S4G01 delta timing error at -5.0 ms
0242	25	858	37	S4G01 delta timing error at 4.1 ms
0243	29	862	37	S4G01 delta timing error at 10.3 ms
0243	29	862	37	S4G02 delta timing error at -5.0 ms
0243	30	863	37	S4G01 delta timing error at 5.4 ms
0243	31	864	37	S4G01 delta timing error at 6.7 ms
0244	32	865	37	S4G01 delta timing error at 10.7 ms
0244	33	866	37	S4G01 delta timing error at 5.9 ms
0244	34	867	37	S4G01 delta timing error at 12.2 ms
0245	35	868	37	S4G01 delta timing error at 10.4 ms
0245	36	869	37	S4G01 delta timing error at 12.6 ms
0245	37	870	37	S4G01 delta timing error at 5.9 ms
0246	38	871	37	S4G01 delta timing error at 6.9 ms
0246	39	872	37	S4G01 delta timing error at 5.3 ms
0247	40	873	37	S4G01 delta timing error at 6.6 ms
0247	41	874	37	S4G01 delta timing error at 5.5 ms
0247	42	875	37	S4G05 delta timing error at -3.3 ms
0248	46	879	37	S4G05 delta timing error at 8.0 ms
0250	51	884	37	S4G02 delta timing error at 4.6 ms
0251	56	889	37	S4G02 delta timing error at -4.5 ms
0252	58	891	37	S4G02 delta timing error at 6.2 ms
0307	105	938	37	S4G02 delta timing error at 4.2 ms
0311	117	950	37	S4G02 6.4 ms
0313	126	959	37	S4G02 delta timing error at -5.0 ms
0318	137	972	37	S4G02 delta timing error at 6.7 ms
0322	153	986	37	S4G02 delta timing error at 5.0 ms
0327	170	1003	37	S3G10 - comm error
0331	180	1013	37	S4G02 delta timing error at 7.7 ms
0334	190	1023	37	S4G02 delta timing error at -4.7 ms
0336	196	1029	37	S4G02 delta timing error at 6.1 ms
0337	201	1034	37	S4G02 delta timing error at 4.1 ms
0349	237	1070	37	S4G02 delta timing error at -4.2 ms
0349	238	1071	37	S4G02 delta timing error at 4.3 ms
0351	245	1078	37	S3G05 Auto fire 108.4 ms
0352	248	1081	37	S3G05 Auto fire 108.3 ms

0352	248	1081	37	S4G02 delta timing error at -5.6 ms
0352	249	1082	37	S3G05 Auto fire 108.3 ms
0352	249	1082	37	S4G02 delta timing error at 4.4 ms
0353	521	1084	37	S4G02 delta timing error at 5.2 ms
0354	253	1086	37	S4G02 delta timing error at -4.1 ms
0358	267	1100	37	S3G03 - comm error
0359	271	1104	37	S4G02 delta timing error at 6.4 ms
0400	272	1105	37	S4G02 delta timing error at -4.4 ms
0401	276	1109	37	S4G02 delta timing error at 4.7 ms
0402	278	1111	37	S4G02 delta timing error at -5.6 ms
0402	279	1112	37	S4G02 delta timing error at 5.1 ms
0411	308	1141	37	S4G02 delta timing error at -4.2 ms
0417	328	1161	37	S3G06 - comm error
0418	331	1164	37	S4G02 delta timing error at 5.2 ms
0425	353	1186	37	S4G02 delta timing error at 4.8 ms
0430	368	1201	37	S4G02 delta timing error at 8.0 ms
0430	369	1202	37	S4G02 delta timing error at -6.5 ms
0441	404	1237	37	S4G02 delta timing error at 8.8 ms
0442	407	1240	37	S4G02 delta timing error at 5.1 ms
0444	415	1248	37	S4G02 delta timing error at 7.8 ms
0447	423	1256	37	S4G02 delta timing error at 5.9 ms
0447	424	1257	37	S4G02 delta timing error at -4.9 ms
0455	448	1281	37	S4G02 - -4.4 ms
0500	465	1298	37	S3G01 - NO FIRE
0500	467	1299	37	S3G01 - NO FIRE
0501	468	1300	37	S3G01 - NO FIRE
0501	469	1301	37	S3G01 - 10.3 ms
0501	470	1302	37	S3G01 - 5.5 ms
0502	471	1303	37	S3G01 - NO FIRE
0502	472	1304	37	S2G05 - 8.8 ms
0502	472	1305	37	S2G05 - -6.3 ms
0502	472	1305	37	S3G02 - -6.5 ms
0502	472	1305	37	S3G02 - 122.7 ms
0503	473	1306	37	S3G02 - 122.7 ms
0503	473	1308	37	S4G02 - 8.9 ms
0513	504	1338	37	S4G02 - 4.5 ms
0514	509	1343	37	S4G02 - 4.5 ms
0520	526	1360	37	S4G02 - 5.3 ms
0526	548	1381	37	S4G02 - 4.6 ms
0538	583	1416	37	S4G02 - -5.4 ms
0538	584	1417	37	S4G02 - 4.8 ms
0539	586	1419	37	S4G02 - 4.1 ms
0542	598	1431	37	S4G02 - -5.0ms
0543	599	1432	37	S4G02 - 8.3 ms
0545	607	1440	37	S4G02 - 7.2ms
0549	619	1452	37	S4G02 - 5.1 ms
0551	625	1458	37	S4G02 - 5.9 ms
0555	635	1468	37	S4g02 - 5.5 ms
0556	639	1472	37	S4G02 - 4.8 ms
0557	641	1474	37	S4G02 - -5.9 ms
0557	643	1476	37	S4G02 - 5.2 ns

	658	1492	38	tape change
0613	689	1522	38	S4G02 - -5.1 ms
0613	690	1523	38	S4G02 - 6.9 ms
0613	691	1524	38	S4G02 - 5.6 ms
0616	699	1532	38	S4G02 - -4.6ms
0616	700	1533	38	S4G02 - 6.4 ms
0617	701	1534	38	S4G02 - 7.4 ms
0623	720	1553	38	S4G02 - 4.8 ms
0626	729	1562	38	S4G02 - -5.9 ms
0627	730	1563	38	S4G02 - 5.2 ns
0633	732	1565	38	S4G02 - -5.1 ms
0634	755	1588	38	S4G02 - -5.1 ms
0636	763	1596	38	S4G02 - 6.9 ms
0636	764	1597	38	S4G02 - 5.6 ms
0638	768	1601	38	S4G02 - -4.6ms
0639	771	1602	38	S4G02 - 6.4 ms
0639	772	1603	38	S4G02 - 7.4 ms
0639	773	1605	38	S4G02 - 8.3 ms
0641	778	1610	38	S4G02 - 7.2ms
0644	788	1620	38	S4G02 5.2 ms
0645	790	1622	38	S4G02 4.7 ms
0646	795	1627	38	S4G02 4.2 ms
0647	797	1629	38	S4G02 5.0 ms
0647	798	1630	38	S4G02 4.2 ms
0648	801	1633	38	S4G02 4.6 ms
0649	803	1635	38	S4G02 8.1
0650	806	1639	38	S4G02 6.0
0650	807	1640	38	S4G02 7.9
0551	808	1641	38	S4G02 4.2
0651	809	1642	38	S4G02 4.8
0651	810	1643	38	S4G02 4.9
0653	811	1644	38	S4G02 6.4
0654	817	1650	38	S4G02 7.2
0654	820	1653	38	S4G02 5.2
0655	821	1654	38	S4G02 4.9
0655	822	1655	38	S4G02 6.2
0655	823	1656	38	S4G02 5.8
0656	824	1657	38	S4G02 -4.2
0656	825	1658	38	S4G02 6.3
0657	827	1660	38	S4G02 5.0
0658	830	1663	38	S4G02 4.9
0658	832	1665	38	S4G02 4.9
0659	835	1668	38	S4G02 6.8
0659	837	1670	38	S4G02 8.3
0700	838	1671	38	S4G02 6.4
0701	841	1674	38	S4G02 5.1
0701	842	1675	38	S4G02 7.0
0701	843	1676	38	S4G02 6.9
0702	845	1678	38	S4G02 8.1
0702	846	1679	38	S4G02 7.7
0703	847	1680	38	S4G02 6.7

0703	848	1681	38	S4G02 11.7
0703	850	1683	38	S4G02 6.1
0704	852	1685	38	S4G02 6.1
0705	854	1687	38	S4G02 4.1
0705	856	1689	38	S4G02 8.3
0706	857	1690	38	S4G02 10.0
0706	858	1691	38	S4G02 5.6
0707	860	1693	38	S4G02 6.3
0707	861	1694	38	S4G02 5.2
0707	862	1695	38	S4G02 5.0
0708	863	1696	38	S4G02 5.9
0708	864	1697	38	S4G02 6.6
0709	868	1701	38	S4G02 -9.8
0710	869	1702	38	S4G02 4.2
0710	870	1703	38	S4G02 5.5
0711	873	1706	38	S4G02 7.2
0712	875	1708	38	S4G02 7.7
0712	876	1709	38	S4G02 7.0
0712	877	1710	38	S4G02 5.4
0713	878	1711	38	S4G02 -11.0
0713	879	1712	38	S4G02 6.9
0713	880	1713	38	S4G02 5.0
0715	884	1717	38	S4G02 4.1
0716	887	1720	38	S4G02 8.0
0716	888	1721	38	S4G02 6.5
0716	889	1722	38	S4G02 6.2
0716	890	1723	38	S4G02 7.5
0717	891	1724	38	S4G02 9.5
0717	892	1725	38	S4G02 6.6
0718	895	1728	38	S4G02 6.8
0718	896	1729	38	S4G02 5.6
0719	897	1730	38	S4G02 8.2
0719	899	1732	38	S4G02 9.6
0720	900	1733	38	S4G02 -9.5
0720	901	1734	38	S4G02 -6.6
0720	902	1735	38	S4G02 7.7
0721	903	1736	38	S4G02 8.6
0721	904	1737	38	S4G02 -6.9
0721	905	1738	38	S4G02 -4.7
0722	906	1739	38	S4G02 -7.8
0722	907	1740	38	S4G02 -6.7
0722	908	1741	38	S4G02 -8.5
0723	909	1742	38	S4G02 7.6
0723	910	1743	38	S4G02 -9.3
0724	913	1746	38	S4G02 5.3
0732	937	1770	38	S4G02 -4.6
0748	988	1821	38	S4G02 -4.5
0749	989	1822	38	S4G02 5.1
0754	1005	1838	38	S3G05 no fire
0754	1007	1840	38	S3G05 no fire
0755	1011	1843	38	S3G05 no fire

0756	1012	1845	38	S3G05 no fire
0756	1013	1846	38	S3G05 no fire
0757	1014	1847	38	S3G05 no fire
0757	1015	1848	38	S3G05 no fire
0759	1021	1854	38	S3G05 no fire
0759	1022	1855	38	S3G05 no fire
0802	1031	1864	38	S3G05 - no fire
0802	1033	1866	38	S3G05 - no fire
0806	1043	1876	38	S3G05 - no fire
0807	1047	1880	38	S4G02 4.2
0809	1052	1885	38	S3G05 - no fire
0811	1061	1894	38	S3G05 - no fire
0812	1063	1896	38	S3G05 - no fire
0813	1065	1898	38	S3G05 - no fire
0816	1077	1910	38	S3G05 - no fire
0817	1078	1911	38	S3G05 - no fire
0817	1079	1912	38	S3G05 - no fire
0818	1081	1914	38	S3G05 - no fire
0818	1082	1915	38	S3G05 - no fire
0818	1083	1916	38	S3G05 - no fire
0819	1084	1917	38	S3G05 - no fire
0821	1091	1924	38	S4G02 4.3
0824	1103	1936	38	S4G02 -4.3
0830	1120	1953	38	S3G05 - no fire
0830	1121	1954	38	S3G05 - no fire
0831	1123	1956	38	S3G05 - no fire
0831	1124	1957	38	S3G05 - no fire
0832	1126	1959	38	S3G05 - no fire
0832	1128	1961	38	S3G05 - no fire
0832	1129	1962	38	S3G05 - no fire
0833	1130	1963	38	S3G05 - no fire
0833	1131	1964	38	S3G05 - no fire
0834	1133	1966	38	S3G05 - no fire
0834	1134	1967	38	S3G05 - no fire
0834	1135	1968	38	S3G05 - no fire
0835	1136	1969	38	S3G05 - no fire
0835	1137	1970	38	S3G05 - no fire
0836	1141	1974	38	S3G05 - no fire
0836	1142	1975	38	S3G05 - no fire
0837	1144	1977	38	S3G05 - no fire
0838	1146	1979	38	S3G05 - no fire
0838	1147	1980	38	S3G05 - no fire
0839	1150	1983	38	S3G05 - no fire
0840	1154	1987	38	S3G05 - no fire
0841	1156	1989	38	S3G05 - no fire
0841	1157	1990	38	S3G05 - no fire
0841	1158	1991	38	S3G05 - no fire
0842	1159	1992	38	S3G05 - no fire
0842	1160	1993	38	S3G05 - no fire
0842	1161	1994	38	S3G05 - no fire
0843	1162	1995	38	S3G05 - no fire

0843	1163	1996	38	S3G05 - no fire
0843	1164	1997	38	S3G05 - no fire
0844	1166	1999	38	S3G05 - no fire
0853	1196	2029	38	S3G05 - no fire
0855	1201	2034	38	S3G05 - no fire
0856	1204	2037	38	S3G05 - no fire
0856	1205	2038	38	S3G05 - no fire
0857	1209	2042	38	S3G05 6.2
0900	1219	2052	38	S3G05 -11.5
0901	1220	2053	38	S3G05 7.3
0901	1221	2054	38	S3G05 10.1
0902	1222	2055	38	S3G05 10.6
0902	1223	2056	38	S3G05 5.7
0902	1224	2057	38	S3G05 5.7
0903	1226	2059	38	S3G05 4.4
0905	1234	2067	38	S3G05 No fire
0906	1235	2068	38	S3G05 No fire
0907	1240	2073	38	S3G05 No fire
0908	1242	2075	38	S3G05 No fire
0908	1243	2076	38	S3G05 No fire
0909	1244	2077	38	S3G05 No fire
0909	1246	2079	38	S3G05 No fire
0910	1248	2081	38	S3G05 No fire
0911	1250	2083	38	S3G05 No fire
0911	1251	2084	38	S3G05 No fire
0912	1253	2086	38	S3G05 No fire
0912	1254	2087	38	S3G05 No fire
0912	1255	2088	38	S3G05 No fire
0913	1257	2090	38	S3G05 No fire
0913	1258	2091	38	S3G05 No fire
0917	1271	2104	38	S3G05 7.4
0918	1273	2106	38	S3G05 4.2
0921	1283	2116	38	S3G05 7.5
0922	1284	2117	38	S3G05 -12.3
0926	1297	2130	38	S3G05 No fire
0928	1304	2137	38	S3G05 No fire
0929	1306	2139	38	S3G10 - comm error
0930	1310	2143	38	S3G05 No fire
0931	1313	2146	39	reel change
0937	1331	2164	39	S3G05 No fire
0938	1335	2168	39	S3G05 -12.6
0938	1336	2169	39	S3G05 1.5
0939	1338	2171	39	S3G05 1.4
0941	1345	2178	39	S3G05 2.9
0944	1352	2185	39	S3G05 No fire
0945	1357	2190	39	S3G05 5.3
0947	1363	2196	39	S3G05 No fire
0951	1375	2208	39	S3G05 3.5
0953	1381	2214	39	S3G05 6.4
0957	1393	2226	39	S3G05 No fire
1007	1426	2259	39	S3G05 No fire

1008	1429	2262	39	S3G05 No fire
1010	1436	2269	39	S3G05 No fire
1011	1438	2271	39	S3G05 No fire
1011	1439	2272	39	S3G05 No fire
1012	1442	2275	39	S3G05 No fire
1013	1443	2776	39	S3G05 No fire
1013	1444	2777	39	S3G05 -5.0
1014	1448	2281	39	S3G05 No fire
1018	1459	2292	39	Dropped shot
1018	1462	2294	39	S3G05 No fire
1020	1469	2301	39	S3G05 No fire
1021	1470	2302	39	S3G05 No fire
1022	1471	2305	39	S3G05 No fire
1022	1472	2306	39	S3G05 No fire
1023	1474	2308	39	S3G05 No fire
1024	1478	2312	39	S3G05 No fire
1024	1479	2313	39	S3G05 No fire
1026	1484	2318	39	S3G05 No fire
1027	1487	2321	39	S3G05 No fire
1027	1488	2322	39	S3G05 No fire
1033	1507	2341	39	S3G05 No fire
1037	1519	2353	39	S3G05 No fire
1038	1523	2357	39	S3G05 No fire
1039	1524	2358	39	S3G05 No fire
1040	1529	2363	39	S3G05 No fire
1042	1534	2368	39	S3G05 No fire
1043	1536	2370	39	S3G05 No fire
1045	1543	2377	39	S3G05 No fire
1045	1544	2378	39	S3G05 No fire
1045	1545	2379	39	S3G05 No fire
1046	1546	2380	39	S3G05 No fire
1047	1550	2384	39	S3G05 No fire
1047	1551	2385	39	S3G05 No fire
1048	1554	2388	39	S3G05 No fire
1049	1556	2390	39	S3G05 No fire
1049	1557	2391	39	S3G05 No fire
1050	1558	2392	39	S3G05 No fire
1050	1559	2393	39	S3G05 No fire
1051	1563	2397	39	S3G05 No fire
1051	1564	2398	39	S3G05 No fire
1054	1571	2405	39	S3G05 No fire
1054	1572	2406	39	S3G05 No fire
1054	1573	2407	39	S3G05 No fire
1055	1574	2408	39	S3G05 No fire
1055	1575	2409	39	S3G05 No fire
1055	1576	2410	39	S3G05 No fire
1056	1577	2411	39	S3G05 No fire
1056	1579	2413	39	S3G05 No fire
1058	1584	2418	39	S3G05 -9.0
1058	1585	2419	39	S3G05 No fire
1058	1586	2420	39	S3G05 No fire

1059	1587	2421	39	S3G05 No fire
1059	1588	2422	39	S3G05 No fire
1059	1589	2423	39	S3G05 No fire
1100	1590	2424	39	S3G05 No fire
1102	1596	2430	39	S3G05 No fire
1102	1597	2431	39	S3G05 No fire
1102	1598	2432	39	S3G05 No fire
1103	1600	2434	39	S3G05 No fire
1104	1603	2437	39	S3G05 No fire
1105	1607	2441	39	S3G05 No fire
1105	1608	2442	39	S3G05 No fire
1106	1610	2444	39	S3G05 No fire
1107	1613	2447	39	S3G05 No fire
1107	1614	2448	39	S3G05 No fire
1108	1615	2449	39	S3G05 No fire
1108	1617	2451	39	S3G05 No fire
1109	1618	2452	39	S3G05 No fire
1109	1619	2453	39	S3G05 4.3
1110	1622	2456	39	S3G05 No fire
1111	1624	2458	39	S3G05 No fire
1111	1625	2459	39	S3G05 No fire
1112	1628	2462	39	S4G02 4.7
1112	1629	2463	39	S3G05 No fire
1112	1630	2464	39	S3G05 No fire
1113	1631	2465	39	S3G05 No fire
1113	1632	2466	39	S3G05 No fire
1113	1633	2467	39	S3G05 No fire
1114	1634	2468	39	S3G05 No fire
1115	1638	2472	39	S3G05 No fire
1115	1639	2473	39	S3G05 No fire
1116	1641	2475	39	S3G05 No fire
1116	1642	2476	39	S3G05 No fire
1117	1644	2478	39	S3G05 No fire
1117	1645	2479	39	S3G05 No fire
1118	1646	2480	39	S3G05 No fire
1119	1650	2484	39	S3G05 No fire
1120	1653	2487	39	S3G05 No fire
1120	1654	2488	39	S3G05 No fire
1121	1655	2489	39	S3G05 No fire
1121	1656	2490	39	S3G05 No fire
1121	1657	2491	39	S3G05 No fire
1122	1659	2493	39	S3G05 No fire
1122	1661	2495	39	S3G05 No fire
1123	1663	2497	39	S3G05 No fire
1124	1665	2499	39	S3G05 No fire
1124	1665	2499	39	Disable S3G05 New vol=6180
1137	1707	2541	39	LGSP Due to S2G04 through S2G10 Comm Error
		2542-2598	39	S2G04 through S2G10 Comm Error
1155	1764	2598	39	LSP of Line Circling due to S2G04 through S2G10 Comm Error

Observers Log

Vessel	Marcus G. Langseth
Client	Jun Korenaga - PI
Area	Shatsky Rise
Job Number	MGL1206

Chief Science Officer	Robert Steinhaus		
Science Officer	Megan Meyer		
Acquisition Leader	Bern Mckiernan 12:00-24:00	Megan Meyer 00:00-12:00	
Navigation Leader	David Ng 12:00-24:00	Mike Martello 00:00-12:00	

	SOL	EOL		
Tape #	40	46	FGSP	2413
SP #	2412	6689	LGSP	6689

Line	MGL1206MCSD2A
Sequence	007
Direction	92.5

Streamer Parameters				
	1	2	3	4
Length (m)	6000			
Auxiliaries				
Shotpoint Interval: (m)	50			
Offset CS - CNG (m)	152.7			
Group Interval: (m)	12.5			
Number of channels	468			
Streamer Depth (m)	9m			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	9m
Source Separation	n/a
COS to COS	

Recording Parameters	
Record Length	16
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	103Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
Date MM/DD/YY	4/5/2012	04/06/2012
Time UTC	1544	1559
Volume (cu in.)	6560in3	6380in3
Wind (kts)	S14	S13
Sea State (m)	1m	1m
Water Depth (m)	4147m	5842m

Cable	EOL High Noise Channels (in u-bar)
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

General / Line Comments
SOL SP 2412
EOL SP 6689 Cable at 11m
SOL NOISY CHANNELS
EOL NOISY CHANNELS
1642 UTC First Shot Prime SP 2599
1642 UTC Last Reshoot Shot SP 2598
1624 Reshoot FS SP 2542

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargable SP
FCSP - First Chargable SP	FFSP - 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
1544	001	2413	40	S4G02 DT5.5ms
1605	67	2479	40	S3G06 comm error
1615	99	2511	40	S4G02 DT4.5ms
1624	129	2541	40	Last Infill Shot
1626	134	2546	40	S3G09 comm error
1628	142	2554	40	S4G02 DT-4.7ms
1634	160	2572	40	S4G02 DT-5.1ms
1639	176	2588	40	S4G02 DT4.8ms
1645	196	2608	40	S4G02 DT-5.0ms
1645	196	2608	40	breakout noise in the record
1710	277	2689	40	S4G02 DT 4.9ms
1723	320	2732	40	S4G02 DT -4.2ms
1738	370	2781	40	S4G02 DT -4.2ms
1815	488	2900	40	S3G04, 05, 06, 07, 08, 09, 10 comm error
1823	514	2926	40	S3G07 - comm error
1842	575	2987	40	S4G02 dt-4.3ms
1844	583	2995	40	S4G02 dt-4.3ms
1907	656	3067	40	Last File Tape 40
1931	732	3144	41	S3G06 DT-4.7ms
1934	742	3154	41	S4G02 DT4.7ms
1950	1083	3495	41	D4G02 DT-4.5ms
2144	1159	3572	41	S3G01 Auto Fire
2144	1160	3573	41	S3G01 Auto Fire
2145	1161	3574	41	S3G01 Auto Fire
2145	1162	3575	41	S3G01 Auto Fire
2145	1163	3576	41	S3G01 Auto Fire
2146	1164	3577	41	S3G01 Auto Fire
2146	1166	3579	41	S3G01 Auto Fire
2146	1166	3579	41	S4G02 DT-4.3ms
2146	1169	3580	41	S3G01 Auto Fire
2146	1170	3581	41	S3G01 Auto Fire
2147	1171	3582	41	S3G01 Auto Fire
2147	1172	3583	41	S3G01 Auto Fire
2147	1172	3583	41	S3G06 comm error
2147	1173	3584	41	S3G01 Auto Fire
2148	1174	3585	41	S3G01 Auto Fire
2155	1198	3609	41	S3G08 comm error
2232	1312	3723	41	End of Tape 41
2232	1313	3724	42	Start of Tape 42
2244	1351	3762	42	S4G02 dt -4.6 ms
2300	1404	3815	42	S4G02 dt at 6.6 ms
2308	1429	3840	42	S3G10 comm error
2314	1448	3859	42	S3G03 comm error
2322	1474	3885	42	S4G02 dt -4.1 ms
2335	1514	3925	42	S4G02 dt 4.8 ms
2337	1520	3931	42	S4G02 dt -4.6 ms
2344	1542	3953	42	S3G06 comm error
2346	1550	3961	42	S4G02 dt -4.1 ms
2352	1567	3978 - 3983	42	S3G09 no shot
2355	1577	3988	42	S3G05 dt 6.2 ms
2355	1579	3990	42	S3G05 dt -8.3 ms
0001	1596 - 1597	4007 - 4008	42	S3G05 no shot
0002	1599 - 1600	4010 - 4011	42	S3G05 no shot
0003	1602 - 1603	4013 - 4014	42	S3G05 no shot
0004 - 0006	1605 - 1611	4016 - 4022	42	S3G05 no shot
0004	1606	4017	42	S3G05 dt -10.9 ms
0006	1611	4022	42	S3G05 dt -8.6 ms
0020	1657	4068	42	S4G02 dt 4.2 ms
0035	1703	4114	42	S4G02 dt -4.8 ms
0101	1787	4198	42	S4G02 dt 4.5 ms
0112	1823	4234	42	S4G02 dt -4.1 ms
0121	1851	4262	42	S4G02 dt -5.1 ms
0138	1904	4315	42	S4G02 dt -5.1 ms
0143	1919	4330	42	S3G01 dt -5.1 ms
0145	1925	4336	42	sea noise in cable
0153	1951	4362	42	S4G02 dt -4.7 ms

0159	1969	4380	42	End of Tape 42
0159	1970	4381	43	Start of Tape 43
0201	1978	4389	43	S3G06 Comm error
0201	1979	4390	43	S4G02 dt -4.7 ms
0206	1995	4406	43	S4G02 dt -4.4 ms
0208	1999	4410	43	S4G02 dt 4.3 ms
0217	2028	4439	43	S4G02 dt -4.8 ms
0221	2042	4453	43	S4G02 de -4.2 ms
0225	2054	4465	43	S3G01 de 7.3 ms
0226	2057	4468	43	S3G01 dt -6.5 ms
0226	2057	4468	43	S4G02 dt -4.3 ms
0226	2058	4469	43	S3G01 dt 4.8 ms
0227	2059	4470	43	S3G01 dt -4.8 ms
0227	2061	4472	43	S3G01 dt -5.0 ms
0228	2062	4473	43	S4G02 dt 4.7 ms
0228	2064	4475	43	S4G02 dt -4.6 ms
0229	2065	4478	43	S3G01 dt 6.5 ms
0230	2066	4479	43	S3G01 dt -5.8 ms
0234	2081	4492	43	S3G01 dt 6.8 ms
0234	2082	4493	43	S3G01 dt -4.9 ms
0234	2083	4494	43	S3G01 dt 5.3 ms
0234	2083	4494	43	S4G02 dt 4.5 ms
0235	2084	4495	43	S3G01 dt -5.8 ms
0235	2085	4496	43	S3G01 dt 5.4 ms
0235	2086	4497	43	S3G01 dt -5.1 ms
0236	2088	4499	43	S3G01 dt 6.1 ms
0236	2089	4500	43	S3G01 dt -4.8 ms
0237	2090	4501	43	S3G01 dt -6.4 ms
0237	2092	4503	43	S3G01 dt -5.1 ms
0238	2094	4505	43	S3G01 dt 8.2 ms
0239	2097	4508	43	S3G01 dt -6.3 ms
0239	2099	4510	43	S3G01 dt 4.6 ms
0240	2102	4513	43	S3G01 dt -6.9 ms
0241	2105	4516	43	S3G01 dt 6.0 ms
0242	2106	4517	43	S3G01 dt -4.4 ms
0242	2107	4519	43	S3G01 dt 6.2 ms
0242	2018	4519	43	S3G01 dt -4.7 ms
0243	2111	4522	43	S3G01 dt 5.9 ms
0248	2125	4536	43	S3G01 dt -4.8 ms
0248	2126	4537	43	S3G01 dt -5.1 ms
0256	2150	4561	43	S4G02 dt -4.7 ms
0259	2160	4571	43	S3G01 dt 7.8 ms
0259	2161	4572	43	S3G01 dt 8.0 ms
0300	2164	4575	43	S3G01 dt -11.8 ms
0301	2167	4578	43	S3G01 dt 11.4 ms
0301	2168	4579	43	S3G01 dt -6.3 ms
0302	2169	4580	43	S3G01 dt 7.7 ms
0303	2172	4583	43	S3G01 dt -12.7 ms
0313	2205	4616	43	S4G02 dt -4.8 ms
0313	2206	4617	43	S4G02 dt 4.4 ms
0315	2212	4623	43	S3G01 dt 4.2 ms
0316	2213	4624	43	S3G01 dt -4.5 ms
0316	2215	4626	43	S3G01 dt -4.6 ms
0323	2234	4645	43	S4G02 -4.9 ms
0337	2277	4688	43	S4G02 -5.0 ms
0340	2288	4699	43	S4G02 -5.0 ms
0341	2291	4702	43	S3G01 -5.3 ms
0343	2296	4707	43	S3G01 6.9 ms
0345	2303	4714	43	S3G01 -6.6 ms
0346	2304	4715	43	S3G01 5.3 ms
0348	2310	4721	43	S4G02 4.5 ms
0348	2312	4723	43	S3G01 -7.1 ms
0353	2326	4737	43	S3G01 6.7 ms
0357	2337	4748	43	S3G01 7.5 ms
0401	2351	4762	43	S3G01 -4.9 ms
0403	2355	4766	43	S3G01 -6.5 ms
0403	2356	4767	43	S3G01 5.3 ms
0404	2358	4769	43	S3G01 -5.7 ms

0407	2369	4780	43	S3G01 -8.8 ms
0408	2371	4782	43	S3G01 -4.9 ms
0408	2372	4783	43	S3G01 6.1 ms
0417	2398	4809	43	S3G01 -6.9 ms
0418	2399	4810	43	S3G01 6.1 ms
0418	2401	4812	43	S3G01 -6.0 ms
0426	2425	4836	43	S3G01 -7.4 ms
0427	2426	4837	43	S3G01 4.7 ms
0427	2428	4839	43	S3G01 -5.8 ms
0428	2830	4841	43	S3G01 -4.2 ms
0429	2832	4843	43	S3G01 6.0 ms
0429	2833	4844	43	S3G01 -4.8 ms
0430	2835	4846	43	S3G01 5.7 ms
0432	2840	4851	43	S3G01 - S3G10 comm error
0432	2841	4852	43	S3G08 no fire
0433	2845	4856	43	S3G01 -6.6 ms
0434	2846	4857	43	S3G01 5.8 ms
0435 - 0436	2851 - 2854	4862 - 4865	43	S3G01 - S3G10 comm error
0437	2855	4866	43	S3G08 no fire
0439	2463	4874	43	S3G01 9.1 ms
0440	2464	4875	43	S3G01 - 6.9 ms
0441	2469	4880	43	S4G01 5.6 ms
0443	2473	4884	43	S3G06 Comm error
0448	2489	4900	43	S3G01 7.9 ms
0449	2491	4902	43	S3G01 -4.8 ms
0449	2492	4903	43	S3G01 -4.5 ms
0450	2495	4906	43	S3G01 9.5 ms
0457	2516	4927	43	S3G01 -8.9ms
0457	2518	4929	43	S3G01 8.5ms
0458	2520	4931	43	S3G01 -11.9ms
0458	2521	4932	43	S3G01 7.6ms
0459	2522	4933	43	S4G02 -5.4ms
0500	2526	4937	43	S3G06 Comm Error
0507	2548	4959	43	S3G01 -6.1ms
0508	2549	4960	43	S3G01 8.5ms
0511	2560	4971	43	S4G02 -4.3ms
0525	2603	5014	43	S4G02 -4.1ms
0533	2625	5036	44	tape change
0535	2631	5042	44	S4G02 -5.5ms
0539	2646	5057	44	S4G02 4.9ms
0543	2657	5068	44	S4G02 4.3ms
0554	2691	5102	44	S4G02 4.2ms
0559	2704	5115	44	S4G02 4.3ms
0616	2755	5166	44	S4G04 -4.2ms
0711	2913	5324	44	S4G02 -4.7ms
0727	2957	5368	44	S3G03 Comm Error
0727	2958	5369	44	S3G08 comm error
0747	3012	5423	44	S4G02 4.7ms
0759	3045	5456	44	S3G01 11.1ms
0818	3097	5508	44	S4G02 5.4ms
0824	3113	5524	44	S4G02 -4.7ms
0843	3163	5574	44	S3G01 -11.3ms
0844	3164	5575	44	S3G01 4.7ms
0855	3194	5604	44	S3G10 comm error
0916	3248	5659	44	S3G01 11.5ms
0916	3249	5660	44	S3G01 11.3ms
0918	3254	5665	44	S4G02 -5.8ms

0929	3281	5692	45	tape change
0931	3286	5697	45	S2G01 11.3ms
0931	3287	5698	45	S3G01 10.5ms
0931	3288	5699	45	S3G01 5.1ms
0933	3292	5703	45	S4G02 -4.1ms
0934	3294	5705	45	S3G01 11.7ms
0934	3295	5706	45	S3G01 10.1ms
0952	3341	5752	45	S4G02 4.4ms
1022	3419	5830	45	S4G02 4.4 ms
1029	3438	5849	45	S3G01 11.1ms
1029	3439	5850	45	S3G01 10.2ms
1031	3444	5855	45	S4G02 4.1ms
1034	3451	5861	45	S4G02 -5.2ms
1044	3477	5888	45	S4G02 -4.2ms
1044	3478	5889	45	S4G02 5.1ms
1045	3480	5891	45	S4G02 -5.0ms
1046	3483	5894	45	S4G02 4.7ms
1055	3508	5919	45	S4G02 4.1ms
1115	3561	5972	45	S4G02 -5.9ms
1117	3567	5978	45	S4G02 -5.2ms
1145	3642	6053	45	S3G01 9.9ms
1150	3654	6065	45	S3G01 -11.9ms
1150	3655	6066	45	S3G01 4.2ms
1151	3658	6069	45	S3G01 12.1ms
1153	3664	6075	45	S3G01 -9.5ms
1154	3665	6076	45	S3G01 5.2ms
1154	3666	6077	45	S3G01 10ms
1155	3667	6078	45	S3G01 12.0ms
1155	3668	6079	45	S3G01 12.6ms
1155	3669	6080	45	S3G01 10.6ms
1158	3675	6086	45	S3G01 12.0ms
1158	3677	6088	45	S4G02 -4.9ms
1205	3694	6105	45	S4G02 -5.8ms
1210	3707	6118	45	S4G02 -4.2ms
1211	3710	6121	45	S3G01 1.4ms
1212	3711	6122	45	S3G01 1.4ms
1229	3754	6165	45	S3G01 -11.6ms
1246	3796	6208	45	S4G02 DT-5.6ms
1253	3814	6226	45	S4G02 DT4.5ms
1255	3819	6231	45	S4G02 DT4.5ms
1256	3822	6234	45	S4G02 DT4.6ms
1300	3832	6243	45	S3G01 DT9.4MS
1304	3841	6252	45	S4G02 DT-4.4ms
1305	3844	6255	45	S3G01 DT5.7ms
1329	3903	6314	45	S4G02 DT-5.7ms
1331	3980	6319	45	S4G02 DT-4.4ms
1342	3936	6348	45	Last File Tape 45
1343	3937	6349	46	S4G01 DT-4.4ms
1349	3953	6365	46	S4G01 DT 6.7ms
1354	3965	6377	46	S3G08 comm error
1415	4017	6429	46	S4G02 DT-5ms
1443	4086	6498	46	S4G02-4.8ms
1446	4093	6505	46	S4G02 DT4.5ms
1449	4099	6511	46	S4G02 DT4.1ms
1452	4108	6502	46	S4G02 DT4.7ms
1501	4130	6542	46	S4G02 DT-4.1ms
1507	4144	6556	46	S4G02 DT-6.4ms
1522	4182	6594	46	S4G02 DT5.6ms
1541	4230	6642	46	S3G01 1.4ms
1543	4235	6647	46	S4G02 -4.1ms
1544	4238	6650	46	S3G01 7.4ms
1545	4240	6652	46	S3G01 10.8 ms
1545	4242	6654	46	S3G01 1.4ms
1546	4243	6655	46	S3G01 2.2ms
1550	4254	6666	46	S4G02 -6.8ms
1553	4261	6673	46	S4G02 -5.2ms
1559				