

Observers Log

Date MM/DD/YY: 07/03/2011

Vessel	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1110

Line	MGL1110-OBS03
Sequence	001
Direction	150.2

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	12m
Source Separation	8m
Delta Error Spec	2mS
Cycle (Dist/Time)	Distance 310

Description	SOL/First Shotpoint	EOL/Last Shotpoint
Time (UTC)	11:17	0346
Volume (cu in.)	6600	6470
Description	FGSP	LGSP
Time (UTC)	11:17	0346
Volume (cu in.)	6600	
Weather	Start of Line	End of Line
Wind (kts)		N @ 5
Sea State (m)		1m
Water Depth (m)		4166

Chief Science Officer	Robert Steinhaus	
Science Officer		
Acquisition Leader		Ryan Eaton 12:00-24:00
Navigation Leader	Mike Martello 00:00-12:00	

Auxiliaries	Status
Aux 1-8	Empty
Aux 9 Gun Hydrophone	Empty
Aux 10 Gun Hydrophone	Empty
Aux 11 Gun Hydrophone	Empty
Aux 12 Gun Hydrophone	Empty
Aux 13-16	Empty

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 - Internal Time Break
NDR - No Data Recorded	DNP - Do Not Process
<i>N.T.B.P. - Not To Be Processed</i>	

General / Line Comments
1004 FGSP / FSP
2166 LGSP / LSP - EOL S2G03 DISABLED, S2G06 DISABLED, S3G10 weak signature, S4G10 weak signature

Abbreviations	
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<i>N.T.B.P. - Not To Be Processed</i>	

Line Status:

Time UTC	FILE	SP	Tape	Description
11:17		1004		FSP of Line -S2G03-comms error
11:19		1005		S2G03-comms error
11:23		1007		S2G03-comms error
11:25		1008		S2G03-comms error
11:27		1009		S2G03- S2G06 - comms error
11:31		1011		S2G03 & S2G06 Disabled - New Volume 6470 cui
11:33		1012		S1G05 -4.2ms misfire
11:41		1016		S1G01 3.9ms misfire
11:45		1018		S1G01 -2.2ms misfire
12:48		1049		S1G01 2.1ms misfire
12:52		1051		S1G01 2.5ms misfire
12:54		1052		S1G01 -3.5ms misfire
13:02		1056		S1G01 4.2ms misfire
13:10		1060		S1G01 -3.3ms misfire
13:49		1079		S1G01 -2.1ms misfire
13:51		1080		S1G01 3.8ms misfire
13:52		1083		S1G01 -3.3ms misfire
15:00		1114		S3G06 comm error
15:14		1121		power down for mammal * First shot with 40cu inches
16:06		1140		Start ramp-up
16:37		1150		Ramp-up complete
16:40		1151		Fsp volume 6560 cu in.
16:45		1153		S2G06 no fire
16:47		1154		S2G06 no fire
16:49		1155		S2G06 comm error
16:51		1156		S2G06 comm error
16:53		1157		Gun S2G06 Disabled New Volume 6470 in3
17:58		1189		S1G01 3.9ms misfire
18:00		1190		S1G01 -3.1ms misfire
19:08		1222		S1G01 2.6ms misfire
19:14		1225		S1G01 -3.3ms misfire
19:14		1255		S1G05 3.8ms misfire
19:17		1226		S2G01 comm error
20:16		1254		S3G10 -2.1ms timing error
22:59		1324		S3G06 comm error
23:54		1346		S3G09 comm error
02:25		1415		S3G06 comm error
05:07		1495		S3G06 comm error
07:14		1573		S3G07 comm error
10:41		1663		S3G10 comm error
13:37		1751		S3G10 comm error
23:59		2058		power down for mammal * First shot with 40cu inches
00:08		2061		Resume Shooting Full Volume 6470 cu inches
00:09		2062		power down for mammal * First shot with 40cu inches
00:17		2064		Resume Shooting Full Volume 6470 cu inches

Observers Log

Date MM/DD/YY: 07/08/2011

Vessel	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1110

Line	MGL1110-OBS05T
Sequence	002
Direction	39

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	12m
Source Separation	8m
Delta Error Spec	2mS
Cycle (Dist/Time)	Distance 310

Description	SOL/First Shotpoint	EOL/Last Shotpoint
Time (UTC)	20:56 / 1010	21:58 / 1039
Volume (cu in.)	4950	6600
Description	FGSP	LGSP
Time (UTC)	1016	2158
Volume (cu in.)	6600	6600
Weather	Start of Line	End of Line
Wind (kts)	S @5-10 kts	S @ 20 kts
Sea State (m)	1m	1m
Water Depth (m)	67.5	57.2

Chief Science Officer	Robert Steinhaus		
Science Officer			
Acquisition Leader		Ryan Eaton	12:00-24:00
Navigation Leader	Mike Martello	00:00-12:00	

Auxiliaries	Status
Aux 1-8	Empty
Aux 9 Gun Hydrophone	Empty
Aux 10 Gun Hydrophone	Empty
Aux 11 Gun Hydrophone	Empty
Aux 12 Gun Hydrophone	Empty
Aux 13-16	Empty

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
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BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Internal Time Break
NDR - No Data Recorded	DNP - Do Not Process
N.T.B.P. - Not To Be Processed	

General / Line Comments
SOL FSP 1010 - String 3 being deployed, vol 4950 cu in
EOL LGSP 1039
Line Status:

Abbreviations	
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Observers Log

Date MM/DD/YY: 07/08/2011

Vessel	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1110

Chief Science Officer	Robert Steinhaus	
Science Officer		
Acquisition Leader		Ryan Eaton 12:00-24:00
Navigation Leader	Mike Martello 00:00-12:00	

Line	MGL1110-OBS05
Sequence	003
Direction	157

Auxiliaries	Status
Aux 1-8	Empty
Aux 9 Gun Hydrophone	Empty
Aux 10 Gun Hydrophone	Empty
Aux 11 Gun Hydrophone	Empty
Aux 12 Gun Hydrophone	Empty
Aux 13-16	Empty

Source Parameters	
Total Volume	6600/in3
Work Pressure	2000psi +/- 100psi
Dual Source	no
Depth	12m
Source Separation	8m
Delta Error Spec	2mS
Cycle (Dist/Time)	Distance 310

Abbreviations	
<i>SOL/EOL - Start/End of Line</i>	<i>LGSP - Last Good SP</i>
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<i>BOT/EOT - Begin/End of Tape</i>	<i>SI - Seismic Interference</i>
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<i>NDR - No Data Recorded</i>	<i>DNP - Do Not Process</i>
<i>N.T.B.P. - Not To Be Processed</i>	

Description	SOL/First Shotpoint	EOL/Last Shotpoint
Time (UTC)	21:59 / 992	08:37 / 1985
Volume (cu in.)	6600	6600
Description	FGSP	LGSP
Time (UTC)	21:59 / 992	08:37 / 1985
Volume (cu in.)	6600	6600
Weather		End of Line
Wind (kts)	SE @ 24.7	SW 13.9
Sea State (m)	1m	1m
Water Depth (m)	74	4669

General / Line Comments
SOL/ FGSP 992
EOL/ LGSP 1985

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<i>FOLSP - First Overlap SP</i>	<i>Fa - Feather Angle</i>
<i>BOT/EOT - Begin/End of Tape</i>	<i>SI - Seismic Interference</i>
<i>NDR - No Data Recorded</i>	<i>ITB - Internal Time Break</i>
<i>NDR - No Data Recorded</i>	<i>ITB - Internal Time Break</i>
<i>N.T.B.P. - Not To Be Processed</i>	

Line Status:

Observers Log

Vessel	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1111

Chief Science Officer	Robert Steinhaus		
Science Officer	David Martinson		
Acquisition Leader	Gram Erwin - 00:00-12:00	Ryan Eaton 12:00-24:00	
Navigation Leader	David Martinson 00:00-12:00	Mike Martello 12:00-24:00	

	SOL	EOL		
Tape #			FGSP	
SP #			LGSP	

Line	MGL1110_MCS05
Sequence	004
Direction	

Streamer Parameters				
	1	2	3	4
Length (m)	8100	8100		
Auxiliaries				
Shotpoint Interval: (m)	62.5	62.5		
Offset CS - CNG (m)	???	???		
Group Interval: (m)	12.5	12.5		
Number of channels	636	636		
Streamer Depth (m)	9m	12m		
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	12m
Source Separation	8m
COS to COS	

Recording Parameters	
Record Length	22sec
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY		
Time UTC		
Volume (cu in.)		
Wind (kts)		
Sea State (ft)		
Water Depth (m)		

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
EOL SP
SOL NOISY CHANNELS
EOL NOISY CHANNELS

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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	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1111

Chief Science Officer	Robert Steinhaus		
Science Officer	David Martinson		
Acquisition Leader	Gram Erwin - 00:00-12:00	Ryan Eaton 12:00-24:00	
Navigation Leader	David Martinson 00:00-12:00	Mike Martello 12:00-24:00	

	SOL	EOL		
Tape #			FGSP	
SP #			LGSP	

Line	MGL1110_MCSHOPE
Sequence	006
Direction	340

Streamer Parameters				
	1	2	3	4
Length (m)	8100	8100		
Auxiliaries				
Shotpoint Interval: (m)	62.5	62.5		
Offset CS - CNG (m)	???	???		
Group Interval: (m)	12.5	12.5		
Number of channels	636	636		
Streamer Depth (m)	9m	12m		
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	12m
Source Separation	8m
COS to COS	

Recording Parameters	
Record Length	22sec
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY		
Time UTC		
Volume (cu in.)		
Wind (kts)		
Sea State (ft)		
Water Depth (m)		

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
EOL SP
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
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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	

Observers Log

Vessel	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1110

Chief Science Officer	Robert Steinhaus		
Science Officer	David Martinson		
Acquisition Leader	Gram Erwin - 00:00-12:00	Ryan Eaton 12:00-24:00	
Navigation Leader	David Martinson 00:00-12:00	Mike Martello 12:00-24:00	

	SOL	EOL		
Tape #	03	04	FGSP	985
SP #	985	1178	LGSP	1178

Line	MGL1110_MCS05R
Sequence	007
Direction	

Streamer Parameters				
	1	2	3	4
Length (m)	8100	8100		
Auxiliaries				
Shotpoint Interval: (m)	62.5	62.5		
Offset CS - CNG (m)	???	???		
Group Interval: (m)	12.5	12.5		
Number of channels	636	636		
Streamer Depth (m)	9m	12m		
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	12m
Source Separation	8m
COS to COS	

Recording Parameters	
Record Length	22sec
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	07/16/11	07/16/11
Time UTC	0242	0403
Volume (cu in.)	6600	40
Wind (kts)	NW @ 15	NW 12
Sea State (ft)	1m	1m
Water Depth (m)	75	91

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 985
EOL SP 1178 - Line ended early, circling around to MGL1110_MCS05B
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Abbreviations	
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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	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1110

Chief Science Officer	Robert Steinhaus		
Science Officer	David Martinson		
Acquisition Leader	Gram Erwin - 00:00-12:00	Ryan Eaton 12:00-24:00	
Navigation Leader	David Martinson 00:00-12:00	Mike Martello 12:00-24:00	

	SOL	EOL		
Tape #	05	31	FGSP	983
SP #	983	5613	LGSP	5613

Line	MGL1110_MCS05B
Sequence	008
Direction	163.6

Streamer Parameters				
	1	2	3	4
Length (m)	8100	8100		
Auxiliaries				
Shotpoint Interval: (m)	62.5	62.5		
Offset CS - CNG (m)	???	???		
Group Interval: (m)	12.5	12.5		
Number of channels	636	636		
Streamer Depth (m)	9m	12m		
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	12m
Source Separation	8m
COS to COS	

Recording Parameters	
Record Length	22sec
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	07/16/11	7/17/11
Time UTC	0722	2057
Volume (cu in.)	6600	6600
Wind (kts)	w 8	sw 14
Sea State (ft)	1	3
Water Depth (m)	85	4671

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 893
EOL SP 5613
SOL NOISY CHANNELS
NOT RECORDED DUE TO IMMEDIATE TURN ONTO LINE
EOL NOISY CHANNELS
NOT RECORDED DUE TO IMMEDIATE TURN ONTO LINE

Abbreviations	
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BOT/EOT - Begin/End of Tape	SI - Seismic Interference
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Time UTC	FILE	SP	Tape	Description
0722	1	983	05	SOL Stmr1 - AB23-27 below depth spec (down to 20m)
0741	40	1022	05	Streamer 2 set to 12meters
0758	78	1060	05	Streamer 1 - All birds at spec depth
0817	118	1100	05	Turn noise off streamers
0835	154	1136	05	Gun S3G09 - Comm Error
0845	176	1158	06	Tape Change
0845	176	1158	06	Gun S3G06 - Comm Error
0920	247	1229	06	Gun S3G06 - Comm Error
0950	307	1289	06	Gun S3G09 - Comm Error
1004	338	1320	06	Gun S3G09 - Comm Error
1016	351	1333	07	Tape Change
1103	463	1445	07	Gun S3G09 - Comm Error
1132	526	1508	08	Tape change
1148	560	1542	08	Gun S3G09 - Comm Error
1149	561	1543	08	Streamer 1- AB 23,24 below spec depth (12m)
1155	576	1558	08	Streamer 1- AB 23,24 back to spec depth
1201	589	1571	08	Gun S3G09 - Comm Error
1252	701	1683	09	Tape change
1317	758	1740	09	Sreamer 2 -BB 10,11,12,13 below spec (14m)
1334	799	1781	09	Streamer 2 all birds back in spec
1337	806	1788	09	Streamer 1 - AB 23,24 blow spec (11m)
1338	807	1789	09	Gun S3G09 - Comm Error
1353	843	1825	09	Streamr 2 - AB 25 @ 11m
1357	850	1832	09	Gun S3 G09 - Comm error
1408	876	1858	10	Tape change
1410	881	1863	10	Streamer1 AB 23,24 & 25 back to spec depth
1448	968	1950	10	streamer1 AB23,24 below spec depth (11m)
1454	982	1965	10	streamer1 AB 24 back to spec depth
1459	992	1974	10	streamer1 AB23 back to spec depth
1518	1036	2017	10	GunS3G09 - Comm error
1522	1045	2027	10	Gun S3G09 - Comm Error
1524	1051	2033	11	Tape change
1545	1100	2082	11	streamer 1 AB04 at 7.6 m
1547	1105	2087	11	streamer 1 AB04 back within 8-10 m, but staying higher than others
1547	1105	2087	11	streamer 1 AB09 hovering near base of 8-10 m range
1623	1189	2171	11	Gun S3G09 - Comm Error
1635	1218	2200	11	Gun S3G09 - Comm Error
1638	1226	2208	12	Tape change
1649	1252	2234	12	Gun S3G09 - Comm Error
1756	1401	2383	13	Tape change
1834	1482	2465	13	streamer1 AB09 below spec depth (10.4m) for a while
1903	1544	2526	13	Gun S3G09 - Comm Error
1910	1557	2539	13	Gun S3G09 - Comm Error
1919	1576	2558	14	Tape change
1921	1581	2563	14	Streamer 2 BB05 above spec depth (9.5m - 10.7m)
1926	1591	2573	14	Gun S3G09 - Comm Error
1939	1617	2599	14	Streamer 2 BB05 back to spec depths

2002	1664	2645	14	S3G09 - Comm Error
2011	1681	2662	14	S3G09 - Comm Error
2050	1751	2733	15	Reel Change
2051	1776	2758	15	S3G09 - Comm Error
2228	1926	2908	16	Reel Change
23:18	2011	2993	16	S3G09 - Comm Error
23:29	2028	3010	16	S3G09 - Comm Error
23:38	2044	3026	16	S3G09 - Comm Error
0014	2101	3083	17	Reel Change
0016	2106	3088	17	S3G09 - Comm Error
0107	2191	3172	17	Power down for porpoise
0126	2225	3205	17	Start Ramp Up
0146	2256	3238	17	Ramp up complete
0159	2276	3258	18	Reel Change
0248	2364	3346	18	S3G09 - Comm Error
0335	2451	3433	19	Reel Change
0430	2573	3555	19	S3G09 - Comm Error
0454	2626	3608	20	Reel Change
0607	2801	3783	21	Reel Change
0723	2976	3958	22	Reel Change
0725	2983	3965	22	S3G09 - Comm Error
0745	3028	4010	22	S3G09 - Comm Error
0842	3151	4133	23	Reel Change
0852	3170	4154	23	Streamer 2 BB05 above spec depth (9.5m)
0856	3178	4162	23	Streamer 2 BB05 riding 10.5-11.0 m
0904	3196	4128	23	Strm 1 AB 04 above spec depth (7m)
0906	3200	4182	23	Strm 2 BB 05 maintaining spec depth
0909	3206	4188	23	Strm 1 AB 04 back to spec depth
0943	3278	4260	23	Strm 2 BB 05 riding 9.5-11.0 m
0952	3293	4275	23	Strm 2 BB 05 maintaining spec depth
1009	3326	4308	24	Reel change
1058	3428	4410	24	Strm 2 BB 05 riding 9.5-11.0 m
1112	3455	4437	24	Strm 2 BB 05 riding 9.5-12.0 m
1120	3471	4453	24	Intermittent sea noise on records
1137	3501	4483	25	Reel Change
1137	3504	4486	25	Strm 2 BB 04 riding about 10.5 m
1139	3508	4490	25	Strm 2 BB 04 maintaining spec depth
1141	3512	4494	25	Strm 2 BB 05 maintaining spec depth
1156	3542	4524	25	S2G03 Delta timing err. 4.1 ms
1157	3543	4525	25	S2G03 Delta timing err. -3.1 ms
1215	3578	4560	25	Strm 1 AB 19 riding at 7.0-7.9m
1223	3594	4576	25	Strm 1 AB 19 back to spec depths
1231	3611	4593	25	Strm 2 BB 05 9.9-10.9m
1235	3619	4601	25	Strm 2 BB 05 in spec
1239	3626	4608	25	Strm 1 AB23 10.0-10.7m
1247	3643	4625	25	Strm 1 AB 04, Strm2 BB 05 1-2m shallow
1305	3676	4658	26	Reel Change
1319	3705	4689	26	Strm 1 AB 04, Strm 2 BB 05 at spec dpths

Observers Log

Vessel	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1110

Chief Science Officer	Robert Steinhaus		
Science Officer	David Martinson		
Acquisition Leader	Gram Erwin - 00:00-12:00	Ryan Eaton 12:00-24:00	
Navigation Leader	David Martinson 00:00-12:00	Mike Martello 12:00-24:00	

	SOL	EOL		
Tape #	32	44	FGSP	1031
SP #	1031	3180	LGSP	3180

Line	MGL1110_MCS45
Sequence	009
Direction	69.6

Streamer Parameters				
	1	2	3	4
Length (m)	8100	8100		
Auxiliaries				
Shotpoint Interval: (m)	62.5	62.5		
Offset CS - CNG (m)	???	???		
Group Interval: (m)	12.5	12.5		
Number of channels	636	636		
Streamer Depth (m)	9m	12m		
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	12m
Source Separation	8m
COS to COS	

Recording Parameters	
Record Length	22sec
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	7/17/11	07/18/11
Time UTC	2101	1428
Volume (cu in.)	6600	6560
Wind (kts)	SW 10	SW 8
Sea State (ft)	8-10	6
Water Depth (m)	4676	4645

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 1031
EOL SP 3180
SOL NOISY CHANNELS
EOL NOISY CHANNELS: Streamer 1 : 46,63,65,100,167,181,182,197,198,265,301,303,305,309,361,362,366,373,375,401
Streamer2 : 23,41,80,89,140,141,282,355,356,360,381,411,436

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	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1110

Chief Science Officer	Robert Steinhaus		
Science Officer	David Martinson		
Acquisition Leader	Gram Erwin - 00:00-12:00	Ryan Eaton 12:00-24:00	
Navigation Leader	David Martinson 00:00-12:00	Mike Martello 12:00-24:00	

	SOL	EOL		
Tape #	45		FGSP	857
SP #	857		LGSP	

Line	MGL1110_MCS04
Sequence	010
Direction	341.9

Streamer Parameters				
	1	2	3	4
Length (m)	8100	8100		
Auxiliaries				
Shotpoint Interval: (m)	62.5	62.5		
Offset CS - CNG (m)	???	???		
Group Interval: (m)	12.5	12.5		
Number of channels	636	636		
Streamer Depth (m)	9m	12m		
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	12m
Source Separation	8m
COS to COS	

Recording Parameters	
Record Length	22sec
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	07/18/11	
Time UTC	1733	
Volume (cu in.)	6600	
Wind (kts)	SW 10	
Sea State (ft)	6-8	
Water Depth (m)	4649	

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
EOL SP
SOL NOISY CHANNELS Streamer 1 : 46,63,65,100,167,181,182,197,198,265,301,303,305,309,361,362,366,373,375,401 Streamer2 : 23,41,80,89,140,141,282,355,356,360,381,411,436
EOL NOISY CHANNELS: Streamer 1 : Streamer2 :

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
1733	1	857	45	SOL - Turn noise on streamers
1739	11	867	45	Noise record
1739	12	868	45	Noise record
1802	55	911	45	Strm 1 AB 23,24,25 below spec, 11m
1810	70	926	45	Turn noise off streamers
1812	75	931	45	Strm 1 AB 24,25 in spec, 10m
1821	93	949	45	Strm 1 AB 23 in spec, 10m
1900	176	1032	46	Reel change
2025	351	1207	47	Reel change
2143	526	1382	48	Reel change
2304	701	1557	49	Reel change
0024	876	1732	50	Reel change
0146	1051	1907	51	Reel change
0214	1114	1970	51	Shots firing - No data recording
0231	1115	2009	51	Digishot spams errors, data recording begins again
0330	1226	2057	52	Reel change File - SP diff 831
0443	1401	2232	53	Reel change
0602	1576	2407	54	Reel change
0726	1751	2582	55	Reel change
0810	1840	2733	55	File - SP diff now 893
0843	1905	2798	55	Spectra missed SP
0843	1906	2799	55	Spectra missed SP
0844	1907	2800	55	Spectra missed SP
0845	1908	2801	55	Spectra missed SP
0854	1926	2819	56	Reel change
1019	2101	2994	57	Reel change
1156	2276	3169	58	Reel change
1337	2451	3344	59	Reel change
1430	2551	3444	59	Gun strings 3 and 4 offline d/t tangle with PAM cable, vol 3300
1435	2561	3454	59	Ship speed slowing to pick up port guns
1438	2567	3460	59	Strm 2 BB 8-14 deep down to 16.5 m
1446	2582	3475	59	Strm 2 BB 8-14 deep ,down to 18 m
1501	2609	3502	59	Strm 2 BB 8-14 back to spec depths
1510	2626	3519	60	Reel change
1520	2646	3539	60	Strm 2 BB 8-14 deep, down to 18m
1539	2682	3575	60	PAM onboard,going back out with port guns
1546	2696	5489	60	Port guns on line, full vol firing 6600, S3G09 Delta err 2.1ms
1554	2713	3607	60	Strm 1 AB 19 at 6m , Strm 2 all birds in spec
1635	2801	3694	61	Reel change
1640	2813	3706	61	Strm 1 AB 19 at 6m , 23,24,25 at 11m
1650	2832	3725	61	Strm 1 AB 19 at 6m , , all others in spec
170	2866	3759	61	Strm 1 AB 19 in spec
1719	2886	3779	61	S3G02 Delta err. 2.2ms
1809	2976	3869	62	Tape change
1825	3003	3896	62	Spectra locked up, last good shot
1837	3005	3916	62	Spectra back on line File - SP diff 911
1929	3094	4005	62	Strm 1 AB 23,24,25 down to 11.5 m
1940	3114	4024	62	Strm 1 AB 23,24,25 in spec
2002	3151	4062	63	Reel Change

Observers Log

Vessel	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1110

Chief Science Officer	Robert Steinhaus		
Science Officer	David Martinson		
Acquisition Leader	Gram Erwin - 00:00-12:00	Ryan Eaton 12:00-24:00	
Navigation Leader	David Martinson 00:00-12:00	Mike Martello 12:00-24:00	

	SOL	EOL		
Tape #	75	77	FGSP	1846
SP #	1846	2302	LGSP	2302

Line	MGL1110_MCS34
Sequence	011
Direction	52.5

Streamer Parameters				
	1	2	3	4
Length (m)	8100	8100		
Auxiliaries				
Shotpoint Interval: (m)	62.5	62.5		
Offset CS - CNG (m)	???	???		
Group Interval: (m)	12.5	12.5		
Number of channels	636	636		
Streamer Depth (m)	9m	12m		
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	12m
Source Separation	8m
COS to COS	

Recording Parameters	
Record Length	22sec
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
FSID	na	
Date MM/DD/YY	07/20/11	07/21/11
Time UTC	2344	0309
Volume (cu in.)	4950	4950
Wind (kts)	13.1	5.7
Sea State (ft)	3	1
Water Depth (m)	100	162.6

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
SOL NOISY CHANNELS Streamer 1 : 46,63,65,100,167,181,182,197,198,265,301,303,305,309,361,362,366,373,375,401 Streamer2 : 23,41,80,89,140,141,282,355,356,360,381,411,436
EOL NOISY CHANNELS: Streamer 1 : not performed due to turn noise Streamer2 :

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	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1110

Chief Science Officer	Robert Steinhaus		
Science Officer	David Martinson		
Acquisition Leader	Gram Erwin - 00:00-12:00	Ryan Eaton 12:00-24:00	
Navigation Leader	David Martinson 00:00-12:00	Mike Martello 12:00-24:00	

	SOL	EOL		
Tape #	78	79	FGSP	1089
SP #	1089	1395	LGSP	1395

Line	MGL1110_03T
Sequence	012
Direction	338.5

Streamer Parameters				
	1	2	3	4
Length (m)	8100	8100		
Auxiliaries				
Shotpoint Interval: (m)	62.5	62.5		
Offset CS - CNG (m)	???	???		
Group Interval: (m)	12.5	12.5		
Number of channels	636	636		
Streamer Depth (m)	9m	12m		
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	12m
Source Separation	8m
COS to COS	

Recording Parameters	
Record Length	22sec
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	07/21/2011	07/21/2011
Time UTC	0340	0623
Volume (cu in.)	6600	6600
Wind (kts)	17.1	8.9
Sea State (ft)	1	1
Water Depth (m)	116.5	156

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 1089
EOL SP 1395
SOL NOISY CHANNELS
Not performed due to turn noise
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	

Observers Log

Vessel	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1110

Chief Science Officer	Robert Steinhaus		
Science Officer	David Martinson		
Acquisition Leader	Gram Erwin - 00:00-12:00	Ryan Eaton 12:00-24:00	
Navigation Leader	David Martinson 00:00-12:00	Mike Martello 12:00-24:00	

	SOL	EOL		
Tape #	80	113	FGSP	1110
SP #	1110	6478	LGSP	6478

Line	MGL1110_03
Sequence	013
Direction	

Streamer Parameters				
	1	2	3	4
Length (m)	8100	8100		
Auxiliaries				
Shotpoint Interval: (m)	62.5	62.5		
Offset CS - CNG (m)	???	???		
Group Interval: (m)	12.5	12.5		
Number of channels	636	636		
Streamer Depth (m)	9m	12m		
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	12m
Source Separation	8m
COS to COS	

Recording Parameters	
Record Length	22sec
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	07/21/11	07/23/11
Time UTC	0712	0232
Volume (cu in.)	6600	6600
Wind (kts)	10	12
Sea State (ft)	1	4
Water Depth (m)	229	4495

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 1110 - STMR 2 at 9m due to turn - turn noise present on cable
EOL SP 6478
SOL NOISY CHANNELS
Not performed due to turn noise
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
0712	1	1110	80	SOL - STMR 2 birds at 9m, Turn noise on cable
0726	35	1114	80	STMR 2 birds set to 12m
0801	111	1220	80	Turn noise off streamers
0805	120	1229	80	STMR 2 BB 10,11,12,13 down to 14.5 m
0807	126	1235	80	STRM 2 all birds at spec depths
0832	176	1285	81	Reel change
0951	351	1460	82	Reel change
1009	389	1498	82	S3G09 comm error
1019	409	1518	82	STRM 2 BB 10-13 down to 14.5 m
1022	416	1525	82	STRM 2 all birds back in spec
1032	437	1546	82	STRM 1 AB 23,24 down to 11.5m
1043	460	1569	82	STRM 1 all birds back in spec
1114	526	1635	83	Reel change
1144	592	1701	83	S1G03 Auto fire @ 6553.5 ms
1145	593	1702	83	S1G03 No fire
1146	594	1703	83	S1G03 No fire
1146	595	1704	83	S1G03 No fire
1147	596	1705	83	S1G03 No fire
1147	597	1706	83	S1G03 No fire
1147	598	1707	83	S1G03 Offline Gun vol 180 , total vol 6420
1148	599	1708	83	S1G05 On line, Delta err -4.0ms Gun vol 180, total vol 6600
1226	681	1790	83	S3G08 comm error
1235	701	1810	84	Reel change
1306	763	1872	84	STRM 1 AB 23,24 down to 10.1-11.0 m
1315	779	1888	84	STRM 1 AB 23,24,25 10.1 - 11 m
1325	801	1910	84	STRM 1 all birds in spec
1405	1876	1985	85	Reel change
1503	997	2106	85	S3G08 comm error
1529	1051	2160	86	Reel change
1649	1226	2335	87	Reel change
1745	1355	2464	87	STRM 2 BB 10-13 down to 13.5 -14.5 m
1753	1373	2482	87	STRM 2 all birds in spec
1806	1401	2510	88	Reel change
1836	1465	2575	88	Missed SP 2574 , did not receive TB
1836	1466	2577	88	Missed SP 2576 , did not receive TB File SP diff 1111
1927	1576	2687	89	Reel change
2046	1751	2862	90	Reel change
2205	1926	3037	91	Reel change
2235	1996	3107	91	S3G06 Comm Err
2320	2085	3200	91	Birds BB06,07,08 set to 11m to help offset sinking cable
2327	2101	3212	92	Reel change
0056	2276	3387	93	Reel change
0117	2322	3433	93	S3G09 comm error
0222	2451	3562	94	Reel change
0352	2626	3737	95	Reel change
0528	2801	3912	96	Reel change
0632	2921	4032	96	SYNTRAK crash! Not recording data

0640	1	4045	97	Recording started, TAPE JUMP
0641	2	4046	98	Recording as normal
0800	162	4206	98	STRM 2 BB 05 riding at 10.5 - 8.8m
0808	177	4221	99	Reel change
089	200	4244	99	STRM 1 AB 19 shallow, up to 5.6m
0820	202	4246	99	STRM 1 AB 19 wing reset, set to 10m, AB 18,20 depth set to 10m
0827	216	4260	99	STRM 1 AB 19 in spec
0828	219	4263	99	STRM 2 BB 04,06 depth set to 12.5m
0832	227	4271	99	STRM 2 BB 05 in spec
0906	299	4343	99	Intermittant sea noise on records
0933	352	4396	100	Tape change
1027	468	4512	100	STRM 2 BB 04, 05 at 10.5 - 8.8m
1035	484	4528	100	STRM 2 all birds in spec
1054	527	4571	101	Tape change
1110	559	4603	101	S3G06 Comm Err
1110	693	4637	101	STRM 1 : picking up ext. err. , not affecting data
1216	702	4746	102	Tape change
1230	733	4777	102	STRM 1 EXT ERR - lost data
1234	745	4789	102	STRM 1 EXT ERR - lost data
1247	751	4815	102	STRM 1 EXT ERR - lost data
1247	752	4816	102	STRM 1 EXT ERR - lost data
1249	756	4820	102	STRM 1 EXT ERR - lost data
1251	760	4824	102	STRM 1 EXT ERR - begin losing data every shot
1309	817	4861	102	S3G09 Autofire @ 133.4 ms
1339	877	4921	103	Tape change
1511	1052	5096	104	Tape change
1545	1114	5158	104	STRM 2 BB 05 at 9.5 m
1619	1177	5221	104	STRM 2 BB 05 in spec
1648	1227	5271	105	Tape change
1704	1262	5306	105	STRM 2 BB 05 @ 9-10m
1705	1263	5307	105	S3G10 comm err.
1809	1386	5430	105	Set streamer1 to 12meters
1821	1402	5446	106	Reel change
1930	1544	5591	106	Missed SP, no TB
1934	1551	5598	106	Missed SP , no TB
1938	1560	5607	106	S3G06 Comm Err
1943	1567	5614	106	Last header received in Spectra
1954	1577	5624	107	Tape Change
2024	1655	5702	107	SYNTRAK crash! Not recording data
2045	1	5741	108	First shot since restart, tape jump
2045	2	5742	109	Recording as normal
2210	177	5917	110	Reel change
0228	216	5956	110	Streamer 1 set to 9 m
2300	283	6023	110	S3G08 comm error
2334	352	6092	111	Reel change
0011	434	6174	111	S3G06 Comm Err
0054	527	6267	112	Reel change
0216	702	6643	113	Reel change
0216	702	6443	113	BB 06-86 changed to 11m
0232	738	6478	113	EOL

Observers Log

Vessel	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1110

Chief Science Officer	Robert Steinhaus		
Science Officer	David Martinson		
Acquisition Leader	Gram Erwin - 00:00-12:00	Ryan Eaton 12:00-24:00	
Navigation Leader	David Martinson 00:00-12:00	Mike Martello 12:00-24:00	

	SOL	EOL		
Tape #	114	120	FGSP	1121
SP #	1121	2265	LGSP	2265

Line	MGL1110_23A
Sequence	014
Direction	243

Streamer Parameters				
	1	2	3	4
Length (m)	8100	8100		
Auxiliaries				
Shotpoint Interval: (m)	62.5	62.5		
Offset CS - CNG (m)	???	???		
Group Interval: (m)	12.5	12.5		
Number of channels	636	636		
Streamer Depth (m)	9m	12m		
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	12m
Source Separation	8m
COS to COS	

Recording Parameters	
Record Length	22sec
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	07/23/11	07/23/11
Time UTC	0339	1314
Volume (cu in.)	40	6600
Wind (kts)	17.7	SW 21
Sea State (ft)	6-9	9
Water Depth (m)	4521	4532

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 1121
EOL SP
SOL NOISY CHANNELS
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	

Observers Log

Vessel	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1110

Chief Science Officer	Robert Steinhaus		
Science Officer	David Martinson		
Acquisition Leader	Gram Erwin - 00:00-12:00	Ryan Eaton 12:00-24:00	
Navigation Leader	David Martinson 00:00-12:00	Mike Martello 12:00-24:00	

	SOL	EOL		
Tape #	121	126	FGSP	1066
SP #	1066	2029	LGSP	2029

Line	MGL1110_23B
Sequence	015
Direction	360

Streamer Parameters				
	1	2	3	4
Length (m)	8100	8100		
Auxiliaries				
Shotpoint Interval: (m)	62.5	62.5		
Offset CS - CNG (m)	???	???		
Group Interval: (m)	12.5	12.5		
Number of channels	636	636		
Streamer Depth (m)	9m	12m		
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	12m
Source Separation	8m
COS to COS	

Recording Parameters	
Record Length	22sec
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	07/23/11	07/23/11
Time UTC	1345	2221
Volume (cu in.)	6600	6600
Wind (kts)	SW 18	W 14
Sea State (ft)	9	9-11
Water Depth (m)	3526	4810

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 1066
EOL SP 2029 - Telemetry errors present towards EOL
SOL NOISY CHANNELS
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	

Observers Log

Vessel	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1110

Chief Science Officer	Robert Steinhaus		
Science Officer	David Martinson		
Acquisition Leader	Gram Erwin - 00:00-12:00	Ryan Eaton 12:00-24:00	
Navigation Leader	David Martinson 00:00-12:00	Mike Martello 12:00-24:00	

	SOL	EOL		
Tape #	127	145	FGSP	1015
SP #	1015	4280	LGSP	4280

Line	MGL1110_23C
Sequence	016
Direction	88.7

Streamer Parameters				
	1	2	3	4
Length (m)	8100	8100		
Auxiliaries				
Shotpoint Interval: (m)	62.5	62.5		
Offset CS - CNG (m)	???	???		
Group Interval: (m)	12.5	12.5		
Number of channels	636	636		
Streamer Depth (m)	9m	12m		
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	12m
Source Separation	8m
COS to COS	

Recording Parameters	
Record Length	22sec
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	07/23/11	07/25/11
Time UTC	2216	0045
Volume (cu in.)	6600	4950
Wind (kts)	w 14	sw 20
Sea State (ft)	9-11	12-15
Water Depth (m)	4810	4634

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 1015
EOL SP 4280
SOL NOISY CHANNELS
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
2216	1	1015	127	SOL - in turn
2224	16	1030	127	S3G08 Comm err
2227	21	1035	127	S3G10 Comm err
2328	145	1160	127	Telemetry error - Bad shot Streamer 1- noise present on streamer 1 from weather
2329	146	1161	127	Streamer 1 set to 13m to offset swell lifting birds
2335	157	1172	127	Telemetry error - Bad Shot Streamer 1
2336	158	1173	127	Telemetry error - Bad Shot Streamer 1
2339	167	1181	127	Streamer 2 set to 14m to offset swell lifting birds
2341	172	1186	127	Telemetry error - Bad Shot Streamer 1
2343	175	1189	127	Telemetry error - Bad Shot Streamer 1
2344	176	1190	128	Tape Change
2344	177	1191	128	Telemetry errors from this shot point on
0013	240	1256	128	Both streamers set to 12m, telemetry drops still in effect from Stmr 1
0105	351	1365	129	Reel Change
0132	413	1427	129	SHUT DOWN for dead whale
0135	418	1432	129	Resume shooting, full vol 6600 cu
0147	450	1464	129	Streamer 1 set to 9m
0204	486	1500	129	Streamer 1 set back to 12m
0205	490	1504	129	S3G09 Auto fire +108.1ms
0221	526	1540	130	Reel Change
0222	528	1542	130	Streamer 2 tail set to 14m, rising to swell
0305	633	1648	130	String 1 - comm err
0309	643	1658	130	S1 G03,G06,G09 comm err
0314	654	1669	130	S1 G04-10 comm err
0317	661	1675	130	String 1 shorting out - SP 1675 TO 1697 String 1 comm err /no fire
0328	683	1697	130	Strings 1 and 2 disabled, new volume 3300 cu in
0331	696	1710	130	Streamer 1 back online at 12m
0336	701	1715	131	Reel Change
0407	776	1792	131	String 2 online and in position, new volume 4950 cu in
0451	876	1892	132	Reel Change Lost 2 shots on reel 131, File-SP diff now 1016
0530	968	1984	132	Streamer 2 tail set to 12m
0607	1051	2067	133	Reel Change
0716	1226	2242	134	Reel change
0802	1307	2323	134	STRM 1 AB 10,11,19 pop up to 9m
0806	1315	2331	134	STRM 1 AB 10,11,19 back to 12m
0832	1367	2883	134	STRM 1 AB 19 depths erratic, occasionally rising to 9m for a few shots
0848	1401	2417	135	Reel change
0914	1452	2468	135	S3G09 Auto fire +4278.3 ms
1016	1576	2592	136	Reel change
1040	1623	2639	136	STRM 1 - AB 19 @ 8.5m , AB 25 @ 15m
1044	1632	2648	136	STRM 1 - AB 19 , 25 back in spec ranges
1045	1634	2650	136	S3G09 Autofire + 3476.9 ms
1109	1679	2695	136	STRM 1 - AB 12 @ 8m, STRM 2 BB 5 @ 7.5m
1112	1689	2701	136	STRM 1 - AB 12 back to spec range
1116	1692	2708	136	STRM 2 - BB 05 back to spec range
1132	1723	2739	136	STRM 1 AB 10 @10m , AB 19 @ 9m
1135	1729	2745	136	S3G09 Autofire +4366.6 ms
1136	1730	2746	136	STRM 1 - AB 10 back in spec ranges
1147	1751	2767	137	Reel change

Observers Log

Vessel	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1110

Chief Science Officer	Robert Steinhaus		
Science Officer	David Martinson		
Acquisition Leader	Gram Erwin - 00:00-12:00	Ryan Eaton 12:00-24:00	
Navigation Leader	David Martinson 00:00-12:00	Mike Martello 12:00-24:00	

	SOL	EOL		
Tape #	146	150	FGSP	1534
SP #	1534	2258	LGSP	2258

Line	MGL1110_MCS23D
Sequence	017
Direction	360

Streamer Parameters				
	1	2	3	4
Length (m)	8100	8100		
Auxiliaries				
Shotpoint Interval: (m)	62.5	62.5		
Offset CS - CNG (m)	???	???		
Group Interval: (m)	12.5	12.5		
Number of channels	636	636		
Streamer Depth (m)	9m	12m		
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	12m
Source Separation	8m
COS to COS	

Recording Parameters	
Record Length	22sec
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	07/25/11	07/25/11
Time UTC	0523	1115
Volume (cu in.)	6600	6600
Wind (kts)	17 w	W 28
Sea State (ft)	12-15	12
Water Depth (m)	4558	4250

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 1534
EOL SP 2258
SOL NOISY CHANNELS
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	

Observers Log

Vessel	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1110

Chief Science Officer	Robert Steinhaus		
Science Officer	David Martinson		
Acquisition Leader	Gram Erwin - 00:00-12:00	Ryan Eaton 12:00-24:00	
Navigation Leader	David Martinson 00:00-12:00	Mike Martello 12:00-24:00	

	SOL	EOL		
Tape #	151	173	FGSP	1018
SP #	1018	5005	LGSP	4925

Line	MGL1110_MCS02
Sequence	018
Direction	325

Streamer Parameters				
	1	2	3	4
Length (m)	8100	8100		
Auxiliaries				
Shotpoint Interval: (m)	62.5	62.5		
Offset CS - CNG (m)	???	???		
Group Interval: (m)	12.5	12.5		
Number of channels	636	636		
Streamer Depth (m)	9m	12m		
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	12m
Source Separation	8m
COS to COS	

Recording Parameters	
Record Length	22sec
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	07/25/11	07/26/11
Time UTC	1123	1800
Volume (cu in.)	6600	40cc
Wind (kts)	W 28	<1
Sea State (ft)	12	3
Water Depth (m)	4254	69

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 1018
EOL SP 5005
SOL NOISY CHANNELS
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
1123	1	1018	151	SOL Turn noise on streamers Streamers 1 and 2 at 12 m
1205	92	1109	151	Turn noise off records, raising streamer 1 to 11 m
1210	103	1120	151	Streamer 1 to 10m
1222	128	1145	151	Streamer 1 at 9m , AB 19 at 7 m
1223	130	1147	151	Noise record
1223	131	1148	151	Noise rcord
1236	159	1176	151	Streamer 1 - AB 19 @ 8 m Intermittant breakout on streamers
1246	176	1193	152	Reel change
1411	351	1368	153	Reel change
1539	526	1543	154	Reel change
1655	617	1694	154	Anamoly on record
1707	701	1718	155	Reel change
1837	876	1893	156	Reel change
2002	1051	2068	157	Reel change
2118	1226	2243	158	Reel change
2234	1401	2418	159	Reel change
2253	1576	2593	160	Reel change
0111	1751	2768	161	Reel change
0228	1926	2943	162	Reel change
0344	2101	3118	163	Reel change
0500	2275	3292	163	Power Down for seal
0503	2276	3293	164	Reel change
0516	2309	3326	164	Ramp up started
0542	2354	3371	164	Ramp up completed
0627	2451	3477	165	Reel change RUNT reset - File - SP diff now 1026
0745	2626	3652	166	Reel change At SP 3692 File - SP diff was 1022
0858	2801	3823	167	Reel change
0925	2864	3886	167	Streamer 1 -Ext errors - lost data
0927	2869	3891	167	Streamer 1 -Ext errors - lost data
0930	2875	3897	167	Streamer 1 -Ext errors - lost data
0932	2879	3901	167	Streamer 1 -Ext errors - lost data
0933	2883	3905	167	Streamer 1 -Ext errors - lost data
0934	2884	3906	167	Streamer 1 -Ext errors - lost data
0936	2890	3912	167	Streamer 1 lead-in let out 1m
1015	2976	3998	168	Reel change
1141	3151	4173	169	Reel change
1316	3326	4348	170	Reel change
1435	3501	4523	171	Reel change
1542	3660	4683	171	Streamer 2 birds 10,11,12 @ 15 m File -SP diff now 1023
1548	3675	4698	171	Streamer 2 all birds in spec range
1549	3676	4699	172	Reel change
1702	3851	4874	173	Reel change
1703	3902	4925	173	LGSP
1724	3903	4926	173	Power Down for whale
1724	3904	4927	173	No guns fired
1724	3905	4928	173	Mitigation gun on, vol 40cc
1800	3982	5005	173	EOL

Observers Log

Vessel	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1110

Chief Science Officer	Robert Steinhaus		
Science Officer	David Martinson		
Acquisition Leader	Gram Erwin - 00:00-12:00	Ryan Eaton 12:00-24:00	
Navigation Leader	David Martinson 00:00-12:00	Mike Martello 12:00-24:00	

	SOL	EOL		
Tape #	174	183	FGSP	4756
SP #	4756	6385	LGSP	6385

Line	MGL1110_MCS02R
Sequence	019
Direction	325

Streamer Parameters				
	1	2	3	4
Length (m)	8100	8100		
Auxiliaries				
Shotpoint Interval: (m)	62.5	62.5		
Offset CS - CNG (m)	???	???		
Group Interval: (m)	12.5	12.5		
Number of channels	636	636		
Streamer Depth (m)	9m	12m		
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	12m
Source Separation	8m
COS to COS	

Recording Parameters	
Record Length	22sec
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	07/26/11	07/27/11
Time UTC	2205	1056
Volume (cu in.)	6600	6600
Wind (kts)	15	NW 5.5
Sea State (ft)	2	<3
Water Depth (m)	49.7	101

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 4756
EOL SP 6385
SOL NOISY CHANNELS
Not performed due to turn while coming onto line
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	

Observers Log

Vessel	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1110

Chief Science Officer	Robert Steinhaus		
Science Officer	David Martinson		
Acquisition Leader	Gram Erwin - 00:00-12:00	Ryan Eaton 12:00-24:00	
Navigation Leader	David Martinson 00:00-12:00	Mike Martello 12:00-24:00	

	SOL	EOL		
Tape #	184	189	FGSP	1036
SP #	1001	1972	LGSP	1972

Line	MGL1110_MCS12M
Sequence	020
Direction	44

Streamer Parameters				
	1	2	3	4
Length (m)	8100	8100		
Auxiliaries				
Shotpoint Interval: (m)	62.5	62.5		
Offset CS - CNG (m)	???	???		
Group Interval: (m)	12.5	12.5		
Number of channels	636	636		
Streamer Depth (m)	9m	12m		
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	12m
Source Separation	8m
COS to COS	

Recording Parameters	
Record Length	22sec
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	07/27/11	07/27/11
Time UTC	1116	1849
Volume (cu in.)	6600	6600
Wind (kts)	N 2	N 13
Sea State (ft)	<3	<3
Water Depth (m)	67	280

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 1036
EOL SP 1972
SOL NOISY CHANNELS
Not performed due to turn while coming onto line
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	

Observers Log

Vessel	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1110

Chief Science Officer	Robert Steinhaus		
Science Officer	David Martinson		
Acquisition Leader	Gram Erwin - 00:00-12:00	Ryan Eaton 12:00-24:00	
Navigation Leader	David Martinson 00:00-12:00	Mike Martello 12:00-24:00	

	SOL	EOL		
Tape #	190	193	FGSP	1034
SP #	1034	1613	LGSP	1581

Line	MGL1110_MCS01A
Sequence	021
Direction	144

Streamer Parameters				
	1	2	3	4
Length (m)	8100	8100		
Auxiliaries				
Shotpoint Interval: (m)	62.5	62.5		
Offset CS - CNG (m)	???	???		
Group Interval: (m)	12.5	12.5		
Number of channels	636	636		
Streamer Depth (m)	9m	12m		
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	12m
Source Separation	8m
COS to COS	

Recording Parameters	
Record Length	22sec
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	07/27/11	07/27/11
Time UTC	1909	2331
Volume (cu in.)	6600	6600
Wind (kts)	W 6	NW 6
Sea State (ft)	3	3
Water Depth (m)	294	250

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 1034
EOL SP 1581 - Line ended for decision to turn around due to mammel power down - IMMEDIATELY CANCELLED however, EOL was done
SOL NOISY CHANNELS
Not performed due to turn while coming onto line
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	

Observers Log

Vessel	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1110

Chief Science Officer	Robert Steinhaus		
Science Officer	David Martinson		
Acquisition Leader	Gram Erwin - 00:00-12:00	Ryan Eaton 12:00-24:00	
Navigation Leader	David Martinson 00:00-12:00	Mike Martello 12:00-24:00	

	SOL	EOL		
Tape #	194	198	FGSP	1659
SP #	1617	2388	LGSP	2388

Line	MGL1110_MCS01B
Sequence	022
Direction	144

Streamer Parameters				
	1	2	3	4
Length (m)	8100	8100		
Auxiliaries				
Shotpoint Interval: (m)	62.5	62.5		
Offset CS - CNG (m)	???	???		
Group Interval: (m)	12.5	12.5		
Number of channels	636	636		
Streamer Depth (m)	9m	12m		
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	12m
Source Separation	8m
COS to COS	

Recording Parameters	
Record Length	22sec
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	07/27/11	07/28/11
Time UTC	23:49	0538
Volume (cu in.)	40	6600
Wind (kts)	6 NW	11.2 NW
Sea State (ft)	3	3
Water Depth (m)	245	196

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 1617 - Ramping up from first shot
EOL SP 2388
SOL NOISY CHANNELS
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	

Observers Log

Vessel	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1110

Chief Science Officer	Robert Steinhaus		
Science Officer	David Martinson		
Acquisition Leader	Gram Erwin - 00:00-12:00	Ryan Eaton 12:00-24:00	
Navigation Leader	David Martinson 00:00-12:00	Mike Martello 12:00-24:00	

	SOL	EOL		
Tape #	199	203	FGSP	1047
SP #	1047	1790	LGSP	1790

Line	MGL1110_MCS12B
Sequence	023
Direction	214

Streamer Parameters				
	1	2	3	4
Length (m)	8100	8100		
Auxiliaries				
Shotpoint Interval: (m)	62.5	62.5		
Offset CS - CNG (m)	???	???		
Group Interval: (m)	12.5	12.5		
Number of channels	636	636		
Streamer Depth (m)	9m	12m		
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	12m
Source Separation	8m
COS to COS	

Recording Parameters	
Record Length	22sec
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	07/28/11	07/28/11
Time UTC	0557	1150
Volume (cu in.)	6600	6600
Wind (kts)	12.4 NW	W 13
Sea State (ft)	3	3
Water Depth (m)	33.5	33

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 1047	
EOL SP 1790	
SOL NOISY CHANNELS	
EOL NOISY CHANNELS	Streamer 1 - 19,55,60,62,63,65,100,154,175,178,180,181,182,186,187,197,198,265,268,295,300,303,305,309,311 341,359,360,361,362,363,366,373,375,398,401 Streamer 2 - 23,41,80,88,89,90,142,144,145,146,147,148,151,152,153,154,165,205,231,263,270,272,277,281,282 290,319,325,327,329,331,334,355,356,358,360,366,371,375,378,381,384,388,389,398,402,411,427 436,437,438,459

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	

Observers Log

Vessel	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1110

Chief Science Officer	Robert Steinhaus		
Science Officer	David Martinson		
Acquisition Leader	Gram Erwin - 00:00-12:00	Ryan Eaton 12:00-24:00	
Navigation Leader	David Martinson 00:00-12:00	Mike Martello 12:00-24:00	

	SOL	EOL		
Tape #	204	206	FGSP	1051
SP #	1051	1659	LGSP	1659

Line	MGL1110_MCS12C
Sequence	024
Direction	145

Streamer Parameters				
	1	2	3	4
Length (m)	8100	8100		
Auxiliaries				
Shotpoint Interval: (m)	62.5	62.5		
Offset CS - CNG (m)	???	???		
Group Interval: (m)	12.5	12.5		
Number of channels	636	636		
Streamer Depth (m)	9m	12m		
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	12m
Source Separation	8m
COS to COS	

Recording Parameters	
Record Length	18 sec
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	07/28/11	07/28/11
Time UTC	1431	2025
Volume (cu in.)	6600	6600
Wind (kts)	SW 7	SW 2
Sea State (ft)	3	3
Water Depth (m)	49	101

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 : Record length changed to 18 sec	
SOL SP 1051	
EOL SP 1659	
SOL NOISY CHANNELS Streamer 1 - 19,55,60,62,63,65,100,154,175,178,180,181,182,186,187,197,198,265,268,295,300,303,305,309,311 341,359,360,361,362,363,366,373,375,398,401	
Streamer 2 - 23,41,80,88,89,90,142,144,145,146,147,148,151,152,153,154,165,205,231,263,270,272,277,281,282 290,319,325,327,329,331,334,355,356,358,360,366,371,375,378,381,384,388,389,398,402,411,427 436,437,438,459	
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	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	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1110

Chief Science Officer	Robert Steinhaus		
Science Officer	David Martinson		
Acquisition Leader	Gram Erwin - 00:00-12:00	Ryan Eaton 12:00-24:00	
Navigation Leader	David Martinson 00:00-12:00	Mike Martello 12:00-24:00	

	SOL	EOL		
Tape #	207	213	FGSP	1065
SP #	1065	2118	LGSP	2118

Line	MGL1110_MCS12D
Sequence	025
Direction	44

Streamer Parameters				
	1	2	3	4
Length (m)	8100	8100		
Auxiliaries				
Shotpoint Interval: (m)	62.5	62.5		
Offset CS - CNG (m)	???	???		
Group Interval: (m)	12.5	12.5		
Number of channels	636	636		
Streamer Depth (m)	9m	12m		
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	12m
Source Separation	8m
COS to COS	

Recording Parameters	
Record Length	22sec
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	07/28/11	07/28
Time UTC	20:43	05:54
Volume (cu in.)	6600	4080
Wind (kts)	2 SW	10 NW
Sea State (ft)	3	3
Water Depth (m)	101	09

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 1065 - Record length restored to 22 seconds
EOL SP 2118 - EOL, ramp up in progress
SOL NOISY CHANNELS
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	

Observers Log

Vessel	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1110

Chief Science Officer	Robert Steinhaus		
Science Officer	David Martinson		
Acquisition Leader	Gram Erwin - 00:00-12:00	Ryan Eaton 12:00-24:00	
Navigation Leader	David Martinson 00:00-12:00	Mike Martello 12:00-24:00	

	SOL	EOL		
Tape #	213	229	FGSP	1025
SP #	1018	2951	LGSP	2951

Line	MGL1110_MCS01C
Sequence	026
Direction	147

Streamer Parameters				
	1	2	3	4
Length (m)	8100	8100		
Auxiliaries				
Shotpoint Interval: (m)	62.5	62.5		
Offset CS - CNG (m)	???	???		
Group Interval: (m)	12.5	12.5		
Number of channels	636	636		
Streamer Depth (m)	9m	12m		
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	12m
Source Separation	8m
COS to COS	

Recording Parameters	
Record Length	22sec
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	07/29/11	07/29/11
Time UTC	0557	2104
Volume (cu in.)	4080	6600
Wind (kts)	10 nw	18 NW
Sea State (ft)	1	1
Water Depth (m)	90	5385

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 1018 - Ramp up in progress
EOL SP 2951 - ONLY STREAMER 2 RECORDING
SOL NOISY CHANNELS
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	

Observers Log

Vessel	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1110

Chief Science Officer	Robert Steinhaus		
Science Officer	David Martinson		
Acquisition Leader	Gram Erwin - 00:00-12:00	Ryan Eaton 12:00-24:00	
Navigation Leader	David Martinson 00:00-12:00	Mike Martello 12:00-24:00	

	SOL	EOL		
Tape #	230	237	FGSP	1361
SP #	1062	3095	LGSP	3095

Line	MGL1110_MCS12E
Sequence	027
Direction	235

Streamer Parameters				
	1	2	3	4
Length (m)	8100	8100		
Auxiliaries				
Shotpoint Interval: (m)	62.5	62.5		
Offset CS - CNG (m)	???	???		
Group Interval: (m)	12.5	12.5		
Number of channels	636	636		
Streamer Depth (m)	9m	12m		
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600/in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	12m
Source Separation	8m
COS to COS	

Recording Parameters	
Record Length	22sec
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	07/29/11	07/30/11
Time UTC	2123	1244
Volume (cu in.)	3300	6420
Wind (kts)	17 N	SW 16
Sea State (ft)	6	6
Water Depth (m)	5397	5504

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 1062 - Only strings 1 and 2 in water, 3 and 4 undergoing maintenance, vol 3300 cu in
EOL SP 3095
SOL NOISY CHANNELS
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	

Observers Log

Vessel	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1110

Chief Science Officer	Robert Steinhaus		
Science Officer	David Martinson		
Acquisition Leader	Gram Erwin - 00:00-12:00	Ryan Eaton 12:00-24:00	
Navigation Leader	David Martinson 00:00-12:00	Mike Martello 12:00-24:00	

	SOL	EOL		
Tape #	238	243	FGSP	1050
SP #	1040	2885	LGSP	2883

Line	MGL1110_MCS12F
Sequence	028
Direction	328

Streamer Parameters				
	1	2	3	4
Length (m)	8100			
Auxiliaries				
Shotpoint Interval: (m)	62.5			
Offset CS - CNG (m)	183			
Group Interval: (m)	12.5			
Number of channels	636			
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	12m
Source Separation	8m
COS to COS	

Recording Parameters	
Record Length	22sec
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	07/30/11	07/31/11
Time UTC	1311	0249
Volume (cu in.)	6420	6420
Wind (kts)	W 15	W 15
Sea State (ft)	6	6
Water Depth (m)	5519	194.9

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 1040
EOL SP 2883 - Last 2 files are noise test files
SOL NOISY CHANNELS
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	

Observers Log

Vessel	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1110

Chief Science Officer	Robert Steinhaus		
Science Officer	David Martinson		
Acquisition Leader	Gram Erwin - 00:00-12:00	Ryan Eaton 12:00-24:00	
Navigation Leader	David Martinson 00:00-12:00	Mike Martello 12:00-24:00	

	SOL	EOL		
Tape #	244	258	FGSP	1136
SP #	1136	6291	LGSP	6291

Line	MGL1110_MCS07
Sequence	029
Direction	244

Streamer Parameters				
	1	2	3	4
Length (m)	8100			
Auxiliaries				
Shotpoint Interval: (m)	62.5			
Offset CS - CNG (m)	183			
Group Interval: (m)	12.5			
Number of channels	636			
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	12m
Source Separation	8m
COS to COS	

Recording Parameters	
Record Length	18sec
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	07/31/11	08/01/11
Time UTC	0342	1721
Volume (cu in.)	6420	6560
Wind (kts)	W 15	W 21
Sea State (ft)	6	6
Water Depth (m)	5519	120

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 1136
EOL SP 6291
SOL NOISY CHANNELS
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
0342	1	1136	244	SOL Turning onto line Gun vol 6420
0629	430	1565	245	Reel change
0712	546	1680	245	S2G03 Timing +3.1ms
0714	551	1685	245	Power down for whales
0754	649	1783	245	Begin ramp-up
0805	1	1805	246	Reel change
0805	1	1805	246	Now recording with 22 sec record length
0824	49	1853	246	Ramp-up over, guns at full vol 6420
0840	83	1887	246	S2G03 Timing error 2.3 ms
0846	98	1902	246	S2G03 Timing error 2.2 ms
0849	105	1909	246	S2G03 Timing error 2.4 ms
0858	123	1927	246	S2G03 Timing error 2.9 ms
0858	124	1928	246	S2G03 Timing error -2.1 ms
0901	130	1934	246	S2G03 Timing error -2.1 ms
0902	132	1936	246	S2G03 Timing error 2.6 ms
0902	133	1937	246	S2G03 Timing error -2.1 ms
0902	134	1938	246	S2G03 Timing error 2.3 ms
0916	164	1968	246	S2G03 Timing error 2.6 ms
0917	165	1970	246	S2G03 Timing error -2.3 ms
0929	193	1997	246	S3G10 comm error
0934	203	2007	246	S2G03 Timing error 2.2 ms
0938	211	2015	246	S2G03 Timing error 2.8 ms
0938	212	2016	246	S2G03 Timing error -2.2 ms
0939	213	2017	246	S2G03 Disabled , S3G05 Enabled Timing err 4.3 ms New vol 6560
1051	352	2156	247	Reel change
1334	753	2507	248	Reel change
1615	1054	2858	249	Reel change
1712	1185	2989	249	Syntrak indicated no guns fired this shot,not otherwise noted (Nav problems)
1712	1186	2991	249	Missed SP 2990 d/t Nav
1736	1246	3051	249	Missed SP 3051 d/t Nav
1801	1305	3111	249	S3G05 comm error
1818	1384	3154	249	Streamer 2 - birds 10,11,12,13 @ 13-14m
1824	1362	3168	249	Last SP on 22 sec rec
1826	1363	3173	250	Reel change CHANGED TO 18 SEC RECORDS , missed SP 3169 - 3172
1830	1374	3184	250	Sreamer 2 - all birds in spec
1835	1385	3195	250	Powered down for whale
1836	1387	3197	250	Mitigation gun on
1851	1426	3236	250	Mitigation gun off
1853	1432	3242	250	Begin ramp-up
1905	1461	3271	250	Prop noise from abeam
1923	1506	3316	250	Prop noise gone
1934	1537	3347	250	Ramp-up over, guns at full vol 6560
1949	1574	3384	250	Power down for whales
2038	1685	3495	250	Begin ramp-up
2110	1757	3567	250	Ramp-up over Vol 6420
2126	1792	3602	251	Reel change
2140	1822	3632	251	S2G03 Delta error 2.9 ms
2141	1824	3634	251	S2G03 Delta error -2.4 ms
2142	1827	3637	251	S2G03 Delta error 2.2 ms

Observers Log

Vessel	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1110

Chief Science Officer	Robert Steinhaus		
Science Officer	David Martinson		
Acquisition Leader	Gram Erwin - 00:00-12:00	Ryan Eaton 12:00-24:00	
Navigation Leader	David Martinson 00:00-12:00	Mike Martello 12:00-24:00	

	SOL	EOL		
Tape #	259	262	FGSP	1029
SP #	1029	2132	LGSP	2132

Line	MGL1110_MCS56
Sequence	030
Direction	344

Streamer Parameters				
	1	2	3	4
Length (m)	8100			
Auxiliaries				
Shotpoint Interval: (m)	62.5			
Offset CS - CNG (m)	183			
Group Interval: (m)	12.5			
Number of channels	636			
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	12m
Source Separation	8m
COS to COS	

Recording Parameters	
Record Length	18sec
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	08/01/11	8/2/11
Time UTC	1737	0131
Volume (cu in.)	6560	40
Wind (kts)	W 16	w 3.2
Sea State (ft)	6	1
Water Depth (m)	128	110

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 1029
EOL SP 2132
SOL NOISY CHANNELS
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	

Observers Log

Vessel	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1110

Chief Science Officer	Robert Steinhaus		
Science Officer	David Martinson		
Acquisition Leader	Gram Erwin - 00:00-12:00	Ryan Eaton 12:00-24:00	
Navigation Leader	David Martinson 00:00-12:00	Mike Martello 12:00-24:00	

	SOL	EOL		
Tape #	263	275	FGSP	1386
SP #	1386	5629	LGSP	5629

Line	MGL1110_MCS06
Sequence	031
Direction	180

Streamer Parameters				
	1	2	3	4
Length (m)	8100			
Auxiliaries				
Shotpoint Interval: (m)	62.5			
Offset CS - CNG (m)	183			
Group Interval: (m)	12.5			
Number of channels	636			
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	12m
Source Separation	8m
COS to COS	

Recording Parameters	
Record Length	22
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	08/02/11	08/03/11
Time UTC	0502	1214
Volume (cu in.)	6560	6560
Wind (kts)	15.8	NW 16
Sea State (ft)	4	10
Water Depth (m)	71.8	4220

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 1386
EOL SP 5629
SOL NOISY CHANNELS
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	

Observers Log

Vessel	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1110

Chief Science Officer	Robert Steinhaus		
Science Officer	David Martinson		
Acquisition Leader	Gram Erwin - 00:00-12:00	Ryan Eaton 12:00-24:00	
Navigation Leader	David Martinson 00:00-12:00	Mike Martello 12:00-24:00	

	SOL	EOL		
Tape #	276	276	FGSP	1055
SP #	1055	1395	LGSP	1395

Line	MGL1110_MCS67A
Sequence	032
Direction	90

Streamer Parameters				
	1	2	3	4
Length (m)	8100			
Auxiliaries				
Shotpoint Interval: (m)	62.5			
Offset CS - CNG (m)	183			
Group Interval: (m)	12.5			
Number of channels	636			
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	12m
Source Separation	8m
COS to COS	

Recording Parameters	
Record Length	22
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	08/03/11	08/03/11
Time UTC	1239	1515
Volume (cu in.)	6560	6560
Wind (kts)	NW 16	NW 14
Sea State (ft)	10	10
Water Depth (m)	4589	4589

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 1055
EOL SP 1395
SOL NOISY CHANNELS
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	

Observers Log

Vessel	Marcus G. Langseth
Client	Shillington
Area	Gulf of Alaska, Northeast Pacific
Job Number	MGL1110

Chief Science Officer	Robert Steinhaus		
Science Officer	David Martinson		
Acquisition Leader	Gram Erwin - 00:00-12:00	Ryan Eaton 12:00-24:00	
Navigation Leader	David Martinson 00:00-12:00	Mike Martello 12:00-24:00	

	SOL	EOL		
Tape #	276	277	FGSP	1028
SP #	1028	1984	LGSP	1984

Line	MGL1110_MCS67B
Sequence	033
Direction	360

Streamer Parameters				
	1	2	3	4
Length (m)	8100			
Auxiliaries				
Shotpoint Interval: (m)	62.5			
Offset CS - CNG (m)	183			
Group Interval: (m)	12.5			
Number of channels	636			
Streamer Depth (m)	9m			
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	6600/in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	12m
Source Separation	8m
COS to COS	

Recording Parameters	
Record Length	22
Total recording delay	0
Sample Rate	2ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 2

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date MM/DD/YY	08/03/11	08/03/11
Time UTC	1530	1984
Volume (cu in.)	6560	6560
Wind (kts)	NW 15	NW 16
Sea State (ft)	10	10
Water Depth (m)	4578	4811

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 1028
EOL SP 1984
EOL NOISY CHANNELS 23-21.8uB, 41-20.8uB, 80-45.8uB, 355-24.4uB, 360-29.2uB,
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	

