

# Observers Log

Vessel	Marcus G. Langseth
Client	USGS - Hutchinson
Area	Extended Continental Shelf - North Carolina
Job Number	MGL1407

Chief Science Officer	David Martinson		
Science Officer			
Acquisition Leader	Klayton Curtis 12:00-24:00	Bobby Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Mike Martello 00:00-12:00	

	SOL	EOL
Tape #	2	67
SP #	546	11415

Line	MGL1407MCS01
Sequence	01
Direction	135

Streamer Parameters				
	1	2	3	4
Length (m)	6000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	25			
Offset CS - CNG (m)	182			
Group Interval: (m)	12.5			
Number of channels	468			
Streamer Depth (m)	9.0			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	No
Depth	9.0
Sub-array Separation	8 m
COS to COS	Single Source

Recording Parameters	
Record Length	9.5
Total recording delay	0
Sample Rate	1.0ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FGSP	EOL/LGSP
SP	546	11415
Date MM/DD/YY	08/23/14	8/25/2014
Time UTC	14:07	01:29
Volume (cu in.)	6600in3	6520in3
Wind (kts)	19	25
Sea State (m)	1.5m	2.0m
Water Depth (m)	1667m	4240m

Cable	Dead Channels
1	
1	
2	
3	
3	
4	

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

General / Line Comments
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	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Initiation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
14:07	5	546	2	SOL MGL1407 6600in3 (Guns 2-4, 2-6, 3-6 out, Guns 2-5 and 3-5 in)
		558		Missed shot due to high speed over ground
		574		Missed shot due to high speed over ground
		576		Missed shot due to high speed over ground
14:23	118		2	EOT
14:23	119		3	BOT
14:38	197		3	EOT
14:38	198		4	BOT
15:06	347	861	4	EOT
15:06	348	862	5	BOT
15:11	378	892	5	EOT
15:17	408	922	6	BOT
15:17	411	925	6	EOT
15:18	412	926	7	BOT
15:24	446	960	7	EOT
15:24	447	961	8	BOT
		1034	8	Missed shot due to high speed over ground
		1056	8	Missed shot due to high speed over ground
		1058	8	Missed shot due to high speed over ground
16:25		1285	8	Missed shot due to high speed over ground
16:25		1292	8	Missed shot due to high speed over ground
16:28		1307	8	Missed shot due to high speed over ground
16:29		1314	8	Missed shot due to high speed over ground
16:43	861	1389	8	EOT
16:43	862	1390	9	BOT
16:53	911	1439	9	EOT
16:53	912	1440	10	BOT
16:54	922	1450	10	EOT
16:54	923	1451	11	BOT
16:59	949	1477	11	EOT
16:59	950	1478	12	BOT
17:55	1247	1775	12	EOT
17:55	1248	1776	13	BOT
18:05	1304	1834	13	EOT
18:05	1305	1834	14	BOT
		1851	14	Missed shot due to high speed over ground
		1853	14	Missed shot due to high speed over ground
		1855	14	Missed shot due to high speed over ground
18:32	1444	1978	14	EOT
18:32	1445	1979	15	BOT
18:44		2046		Move streamer from outboard starboard side to inboard side to reduce strain on tow cable
18:52	1548	2082	15	EOT
18:52	1549	2083	16	BOT
19:01	1595	2129	16	EOT
19:01	1596	2130	17	BOT
19:05	1616	2150	17	EOT
19:05	1617	2151	18	BOT
19:29	1745	2279	18	EOT
19:29	1746	2280	19	BOT

19:30	1752	2286	19	EOT
19:31	1753	2287	20	BOT
20:08	1952	2487	20	EOT
20:08	1953	2488	21	BOT
		2490	21	Missed shot due to high speed over ground
		2561	21	Missed shot due to high speed over ground
		2563	21	Missed shot due to high speed over ground
		2576	21	Missed shot due to high speed over ground
		2651	21	Missed shot due to high speed over ground
		2657	21	Missed shot due to high speed over ground
		2667	21	Missed shot due to high speed over ground
		2669	21	Missed shot due to high speed over ground
		2700	21	Missed shot due to high speed over ground
		2707	21	Missed shot due to high speed over ground
		2797	21	Missed shot due to high speed over ground
21:14	2308	2854	21	EOT
21:14	2309	2855	22	BOT
21:49	2493	2939	22	EOT
21:49	2494	2940	23	BOT
21:55	2523	2969	23	EOT
21:55	2524	2970	24	BOT
		3101	24	Missed shot due to high speed over ground
		3103	24	Missed shot due to high speed over ground
		3105	24	Missed shot due to high speed over ground
		3107	24	Missed shot due to high speed over ground
23:01	2870	3420	24	EOT
23:01	2871	3421	25	BOT
23:15	2944	3494	25	EOT
23:15	2945	3495	26	BOT
23:18	2963	3513	26	EOT
23:19	2964	3514	27	BOT
23:24	2991	3541	27	EOT
23:24	2992	3542	28	BOT
23:49	3122	3672	28	EOT
23:49	3123	3673	29	BOT
23:54	3149	3699	29	EOT
23:54	3150	3700	30	BOT
01:02	3511	4061	30	EOT
01:02	3512	4062	31	BOT
01:28	3650	4200	31	EOT
01:28	3651	4201	32	BOT
03:16	4188	4738	32	EOT
03:16	4189	4739	33	BOT
04:02	4418	4968	33	EOT
04:02	4419	4969	34	BOT
04:43	4628	5178	34	Bad File
04:58	4706	5256	34	EOT
04:58	4707	5257	35	BOT
05:42	4937	5487	35	EOT
05:43	4938	5488	36	BOT
05:47	4963	5513	36	EOT

05:47	4964	5514	37	BOT
05:53	4994	5544	37	EOT
05:53	4995	5545	38	BOT
06:06	5065	5615	38	Bad File
06:16	5115	5665	38	EOT
06:16	5116	5666	39	BOT
06:27	5178	5728	39	EOT
06:28	5179	5729	40	BOT
06:42	5254	5804	40	EOT
06:42	5255	5805	41	BOT
07:00			41	Ship noise from port, ship 2 miles away
07:03	5366	5916	41	EOT
07:04	5367	5917	42	BOT
07:08	5392	5942	42	Bad File
07:25	5481	6031	42	EOL
07:26	5482	6032	43	BOT and EOT
07:26	5483	6033	44	BOT
07:43	5572	6122	44	EOT
07:43	5573	6123	45	BOT
08:37	5841	6391	45	Bad File
09:29	6095	6645	45	Gun 2-9 turned off due to timing errors, Gun 1-5 turned on, new volume 6560 cu in.
09:32	6110	6660	45	EOT
09:32	6111	6661	46	BOT
10:47	6467	7017	46	Bad File
11:13	6601	7151	46	EOT
11:13	6602	7152	47	BOT
		7371		Missed shot due to high speed over ground
		7374		Missed shot due to high speed over ground
		7376		Missed shot due to high speed over ground
		7378		Missed shot due to high speed over ground
		7380		Missed shot due to high speed over ground
		7382		Missed shot due to high speed over ground
		7384		Missed shot due to high speed over ground
11:58	6833	7390	47	EOT
11:58	6834	7391	48	BOT
08:20				Ship noise visible on tail of streamer at ~ 1hz
08:20				Swell noise over full streamer
12:54	7125	7682	48	EOT
12:54	7126	7683	49	BOT
13:04	7180	7737	49	EOT
13:04	7181	7738	50	BOT
13:43	7388	7895	50	Bad File
13:54	7443	8000	50	Bad File
13:58	7461	8018	50	EOT
13:58	7462	8019	51	BOT
14:23	7593	8150	51	Noise due to turning into and crabbing through the Gulf Stream
15:40	7950	8507	51	Noise due to swell from the port quarter (200 deg relative)
15:51	7999	8556	51	EOT
15:51	8000	8557	52	BOT
17:32	8455	9009	52	Streamer set to 12m depth due to sea state
17:46	8515	9071	52	Streamer set to 13m depth due to sea state

17:51	8537	9094	52	EOT
17:51	8538	9095	53	BOT
18:00	8585	9142	53	EOT
18:00	8586	9143	54	BOT
18:56	8869	9426	54	EOT
18:56	8870	9427	55	BOT
19:34	9062	9619	55	EOT
19:34	9063	9620	56	BOT
19:47	9132	9689	56	EOT
19:47	9133	9690	57	BOT
19:49	9142	9699	57	EOT
19:49	9143	9700	58	BOT
19:50	9146	9703	58	EOT
19:50	9147	9704	59	BOT
20:13	9261	9818	59	EOT
20:13	9262	9819	60	BOT
21:05	9526	10083	60	EOT
21:06	9527	10084	61	BOT
21:26	9628	10185	61	Streamer set to 11m depth
21:50	9746	10303	62	EOT
21:50	9747	10304	63	BOT
22:24	9925	10482	63	Gun 1-10 turned off due to timing errors, Gun 4-5 turned on, new volume 6520 cu in.
22:40	10001	10558	63	EOT
22:40	10002	10559	64	BOT
22:57	10089	10644	64	EOT
22:57	10090	10645	65	BOT
22:58	10098	10655	65	Slowed Vessel temporarily for Low Pressure Compressor Alarm
23:29	10254	10811	65	EOT
23:29	10255	10812	66	BOT
01:17	10792	11349	66	EOT
01:17	10793	11350	67	BOT
01:29	10858	11415	67	EOL

# Observers Log

Vessel	Marcus G. Langseth
Client	USGS - Hutchinson
Area	Extended Continental Shelf - North Carolina
Job Number	MGL1407

Chief Science Officer	David Martinson		
Science Officer			
Acquisition Leader	Klayton Curtis 12:00-24:00	Bobby Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Mike Martello 00:00-12:00	

	SOL	EOL
Tape #	68	70
SP #	20040	21995

Line	MGL1407MCS02
Sequence	02
Direction	148

Streamer Parameters				
	1	2	3	4
Length (m)	8000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	50			
Offset CS - CNG (m)	182			
Group Interval: (m)	12.5			
Number of channels	636			
Streamer Depth (m)	9.0			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	No
Depth	9.0
Sub-array Separation	8 m
COS to COS	Single Source

Recording Parameters	
Record Length	20s
Total recording delay	0
Sample Rate	2.0ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FGSP	EOL/LGSP
SP	20040	21995
Date MM/DD/YY	08/25/14	08/25/14
Time UTC	01:36	14:49
Volume (cu in.)	6520in3	6520in3
Wind (kts)	25 NE	26
Sea State (m)	2.0m	2m
Water Depth (m)	4240m	4468m

Cable	Dead Channels
1	
1	
2	
3	
3	
4	

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

General / Line Comments
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	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	USGS - Hutchinson
Area	Extended Continental Shelf - North Carolina
Job Number	MGL1407

Chief Science Officer	David Martinson		
Science Officer			
Acquisition Leader	Klayton Curtis 12:00-24:00	Bobby Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Mike Martello 00:00-12:00	

	SOL	EOL
Tape #	71	73
SP #	24991	26628

Line	MGL1407MCS03
Sequence	03
Direction	129

Streamer Parameters				
	1	2	3	4
Length (m)	8000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	50			
Offset CS - CNG (m)	182			
Group Interval: (m)	12.5			
Number of channels	636			
Streamer Depth (m)	9.0			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	No
Depth	9.0
Sub-array Separation	8 m
COS to COS	Single Source

Recording Parameters	
Record Length	20s
Total recording delay	0
Sample Rate	2.0ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FGSP	EOL/LGSP
SP	24991	26628
Date MM/DD/YY	08/25/14	08/26/2014
Time UTC	14:53	02:52
Volume (cu in.)	6520in3	6520in3
Wind (kts)	26	21.7
Sea State (m)	2m	2m
Water Depth (m)	4468m	4643m

Cable	Dead Channels
1	
1	
2	
3	
3	
4	

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

General / Line Comments
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	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Initiation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	





Time UTC	FILE	SP	Tape	Description
02:59	1	30023	74	SOL MGL1407MCS06 6520in3 (Guns 1-10, 2-4, 2-6, 2-9, 3-6 out, All others IN)
04:26	182	30204	74	Bad File
09:49	773	30795	74	EOT
09:49	774	30796	75	BOT
12:51	1200	31222	75	EOT
12:52	1201	31223	76	BOT
		31270	76	Missed shot due to high speed over ground
		31272	76	Missed shot due to high speed over ground
		31279	76	Missed shot due to high speed over ground
13:51	1350	31375	76	Bad File
		31451	76	Missed shot due to high speed over ground
14:47	1497	31523	76	EOT
14:47	1498	31524	77	BOT
		31538	77	Missed shot due to high speed over ground
		31621	77	Missed shot
		31623	77	Missed shot
17:21	1903	31932	77	EOT
17:22	1904	31933	78	BOT
17:44	1961	31990	78	Bad File
		32212	78	Missed shot due to high speed over ground
		32120	78	Missed shot due to high speed over ground
		32139	78	Missed shot due to high speed over ground
		32143	78	Missed shot due to high speed over ground
		32145	78	Missed shot due to high speed over ground
		32147	78	Missed shot due to high speed over ground
		32150	78	Missed shot due to high speed over ground
18:56	2143	32179	78	Bad File
20:29		32421	78	Missed shot
20:37		32441	78	Missed shot
20:59	2463	32501	78	EOT
21:00	2464	32502	79	BOT
21:01	2466	32504	79	Bad File
21:32		32587	79	Missed shot
21:32		32589	79	Missed shot
21:38		32604	79	Missed shot
21:39		32606	79	Missed shot
21:39		32608	79	Missed shot
21:41		32613	79	Missed shot
22:00	2606	32650	79	EOT/EOL MGL1407MCS06







Time UTC	PRED FILE	FILE	SP	Tape	Description
12:11		2	34518	80	SOL MGL1407MCS03A 6600in3 (Guns 1-5, 2-4, 2-6, 3-6, 4-5 out, All others IN)
	-34516				

# Observers Log

Vessel	Marcus G. Langseth
Client	USGS - Hutchinson
Area	Extended Continental Shelf - North Carolina
Job Number	MGL1407

Chief Science Officer	David Martinson		
Science Officer			
Acquisition Leader	Klayton Curtis 12:00-24:00	Bobby Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Mike Martello 00:00-12:00	

	SOL	EOL
Tape #	81	83
SP #	35480	37367

Line	MGL1407MCS03B
Sequence	06
Direction	129

Streamer Parameters				
	1	2	3	4
Length (m)	8000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	50			
Offset CS - CNG (m)	182			
Group Interval: (m)	12.5			
Number of channels	636			
Streamer Depth (m)	9.0			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	No
Depth	9.0
Sub-array Separation	8 m
COS to COS	Single Source

Recording Parameters	
Record Length	20s
Total recording delay	0
Sample Rate	2.0ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FGSP	EOL/LGSP
SP	35480	37367
Date MM/DD/YY	08/31/2014	09/01/2014
Time UTC	11:15	03:30
Volume (cu in.)	6560in3	6520in3
Wind (kts)	S 10.5kts	S 11.7kts
Sea State (m)	0.5m	1m
Water Depth (m)	4521.7m	4937m

Cable	Dead Channels
1	
1	
2	
3	
3	
4	

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

General / Line Comments
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	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	USGS - Hutchinson
Area	Extended Continental Shelf - North Carolina
Job Number	MGL1407

Chief Science Officer	David Martinson		
Science Officer			
Acquisition Leader	Klayton Curtis 12:00-24:00	Bobby Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Mike Martello 00:00-12:00	

	SOL	EOL
Tape #	84	92
SP #	40019	46548

Line	MGL1407MCS07
Sequence	07
Direction	048

Streamer Parameters				
	1	2	3	4
Length (m)	8000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	50			
Offset CS - CNG (m)	182			
Group Interval: (m)	12.5			
Number of channels	636			
Streamer Depth (m)	9.0			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	No
Depth	9.0
Sub-array Separation	8 m
COS to COS	Single Source

Recording Parameters	
Record Length	20s
Total recording delay	0
Sample Rate	2.0ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FGSP	EOL/LGSP
SP	40019	46548
Date MM/DD/YY	09/01/2014	09/02/2014
Time UTC	03:35	22:02
Volume (cu in.)	6520in3	6520in3
Wind (kts)	11.9kts	19.5kts
Sea State (m)	1m	1-2m
Water Depth (m)	4937m	4917.3m

Cable	Dead Channels
1	
1	
2	
3	
3	
4	

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

General / Line Comments
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	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Initiation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
03:35	1	40019	84	SOL MGL1407MCS07 6520in3 (Guns 2-9,3-1,3-3,4-5 out, All others IN)
08:52	773	40791	84	EOT
08:53	774	40792	85	BOT
09:40	882	40900	85	Swell noise from ahead.
13:19	1412	41430	85	Tanker overtaking streamer, 5 miles out to port, 1/2 way up streamer now
14:11	1546	41564	85	EOT
14:11	1547	41565	86	BOT
		41639	86	Missed shot due to high speed over ground
		41665	86	Missed shot due to high speed over ground
		41669	86	Missed shot due to high speed over ground
		41673	86	Missed shot due to high speed over ground
		41676	86	Missed shot due to high speed over ground
		42264	86	Missed shot due to high speed over ground
		42266	86	Missed shot due to high speed over ground
		42268	86	Missed shot due to high speed over ground
		42271	86	Missed shot due to high speed over ground
		42273	86	Missed shot due to high speed over ground
		42275	86	Missed shot due to high speed over ground
		42281	86	Missed shot due to high speed over ground
		42283	86	Missed shot due to high speed over ground
		42285	86	Missed shot due to high speed over ground
		42287	86	Missed shot due to high speed over ground
		42289	86	Missed shot due to high speed over ground
		42291	86	Missed shot due to high speed over ground
19:08	2319	42354	86	EOT
19:09	2320	42355	87	BOT
		42629	87	Missed shot
23:52	3092	43128	87	EOT
23:52	3093	43129	88	BOT
04:53	3865	43901	88	EOT
04:53	3866	43902	89	BOT
05:53	4010	44046	89	Vessel overtaking streamer, 5.5 miles away
		44051	89	Missed shot
06:32	4100	44137	89	Noise from overtaking vessel visable in shot record.
08:53	4444	44481	89	Noise from overtaking vessel no longer visable in shot record.
10:06	4638	44675	89	EOT
10:07	4639	44676	90	BOT
		44756	90	Missed shot
15:02	5411	45449	90	EOT
15:03	5412	45450	91	BOT
19:58	6184	46222	91	EOT
19:59	6185	46223	92	BOT
		46524	92	Missed Shot
22:02	6509	46548	92	EOL MGL1407MCS07 6520in3 (Guns 2-9,3-1,3-3,4-5 Out, All others IN)



# Observers Log

Vessel	Marcus G. Langseth
Client	USGS - Hutchinson
Area	Extended Continental Shelf - North Carolina
Job Number	MGL1407

Chief Science Officer	David Martinson		
Science Officer			
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Mike Martello 00:00-12:00	

	SOL	EOL
Tape #	93	93
SP #	47026	47756

Line	MGL1407MCS08
Sequence	08
Direction	308

Streamer Parameters				
	1	2	3	4
Length (m)	8000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	50			
Offset CS - CNG (m)	182			
Group Interval: (m)	12.5			
Number of channels	636			
Streamer Depth (m)	9.0			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	No
Depth	9.0
Sub-array Separation	8 m
COS to COS	Single Source

Recording Parameters	
Record Length	18s
Total recording delay	0
Sample Rate	2.0ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FGSP	EOL/LGSP
SP	47026	47756
Date MM/DD/YY	09/02/2014	09/03/14
Time UTC	22:08	04:01
Volume (cu in.)	6520in3	6520in3
Wind (kts)	WSW 20kts	SW 20kts
Sea State (m)	2m	1-2m
Water Depth (m)	4907.1m	4865.5m

Cable	Dead Channels
1	
1	
2	
3	
3	
4	

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

General / Line Comments
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	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	USGS - Hutchinson
Area	Extended Continental Shelf - North Carolina
Job Number	MGL1407

Chief Science Officer	David Martinson		
Science Officer			
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Mike Martello 00:00-12:00	

	SOL	EOL
Tape #	94	98
SP #	55008	59073

Line	MGL1407MCS06A
Sequence	09
Direction	233

Streamer Parameters				
	1	2	3	4
Length (m)	8000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	50			
Offset CS - CNG (m)	182			
Group Interval: (m)	12.5			
Number of channels	636			
Streamer Depth (m)	9.0			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	No
Depth	9.0
Sub-array Separation	8 m
COS to COS	Single Source

Recording Parameters	
Record Length	18s
Total recording delay	0
Sample Rate	2.0ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FGSP	EOL/LGSP
SP	55008	59073
Date MM/DD/YY	09/03/14	09/04/14
Time UTC	04:03	11:52
Volume (cu in.)	6520in3	6600in3
Wind (kts)	SW 20kts	W 17kts
Sea State (m)	1-2m	2m
Water Depth (m)	4865.5m	4940m

Cable	Dead Channels
1	
1	
2	
3	
3	
4	

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

General / Line Comments
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	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Initiation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

Time UTC	FILE	SP	Tape	Description
04:03	1	55008	94	SOL MGL1407MCS06A 6520in3 (Guns 2-9,3-1,3-3,4-5 out, All others IN)
08:16	410	55417	94	Swell noise visable on shot record, swell from the east.
08:56	483	55490	94	Swell noise no longer visable on shot record.
09:44	570	55577	94	Enabled gun S4G5, Disabled gun S3G8
09:49	573	55580	94	Disabled gun S4G5, Enabled gun S3G8
11:55	823	55830	94	Disabled guns S3G8 and S4G3, Enabled gun S4G5, Volume 6600 cu in
12:12	859	55866	94	EOT
12:13	860	55867	95	BOT
18:28	1584	56591	95	Missed Header transfer (SP 0)
19:34	1718	56725	95	EOT
19:35	1719	56726	96	BOT
02:26	2577	57584	96	EOT
02:27	2578	57585	97	BOT
08:02	3436	58443	97	EOT
08:02	3437	58444	98	BOT
11:52	4066	59073	98	EOL MGL1407MCS06A

# Observers Log

Vessel	Marcus G. Langseth
Client	USGS - Hutchinson
Area	Extended Continental Shelf - North Carolina
Job Number	MGL1407

Chief Science Officer	David Martinson		
Science Officer			
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Mike Martello 00:00-12:00	

	SOL	EOL
Tape #	99	101
SP #	60007	62472

Line	MGL1407MCS09
Sequence	010
Direction	259

Streamer Parameters				
	1	2	3	4
Length (m)	8000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	50			
Offset CS - CNG (m)	182			
Group Interval: (m)	12.5			
Number of channels	636			
Streamer Depth (m)	9.0			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	No
Depth	9.0
Sub-array Separation	8 m
COS to COS	Single Source

Recording Parameters	
Record Length	18s
Total recording delay	0
Sample Rate	2.0ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FGSP	EOL/LGSP
SP	60007	62472
Date MM/DD/YY	09/04/2014	09/05/2014
Time UTC	11:55	02:05
Volume (cu in.)	6600in3	6600in3
Wind (kts)	W 17kts	NW 11.5kts
Sea State (m)	2m	1.5m
Water Depth (m)	4938.7m	4487.1m

Cable	Dead Channels
1	
1	
2	
3	
3	
4	

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

General / Line Comments
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	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Initiation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	



# Observers Log

Vessel	Marcus G. Langseth
Client	USGS - Hutchinson
Area	Extended Continental Shelf - North Carolina
Job Number	MGL1407

Chief Science Officer	David Martinson		
Science Officer			
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Mike Martello 00:00-12:00	

	SOL	EOL
Tape #	102	104
SP #	65032	67111

Line	MGL1407MCS10A
Sequence	011
Direction	223

Streamer Parameters				
	1	2	3	4
Length (m)	8000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	50			
Offset CS - CNG (m)	182			
Group Interval: (m)	12.5			
Number of channels	636			
Streamer Depth (m)	9.0			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	No
Depth	9.0
Sub-array Separation	8 m
COS to COS	Single Source

Recording Parameters	
Record Length	18s
Total recording delay	0
Sample Rate	2.0ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FGSP	EOL/LGSP
SP	65032	67111
Date MM/DD/YY	09/05/2014	09/05/2014
Time UTC	02:18	16:49
Volume (cu in.)	6600in3	6600in3
Wind (kts)	NW 11.5kts	SW 2.7kts
Sea State (m)	1.5m	0m
Water Depth (m)	4493.1m	4503.2m

Cable	Dead Channels
1	
1	
2	
3	
3	
4	

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

General / Line Comments
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	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Initiation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	



# Observers Log

Vessel	Marcus G. Langseth
Client	USGS - Hutchinson
Area	Extended Continental Shelf - North Carolina
Job Number	MGL1407

Chief Science Officer	David Martinson		
Science Officer			
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Mike Martello 00:00-12:00	

	SOL	EOL
Tape #	105	106
SP #	68017	69515

Line	MGL1407MCS10B
Sequence	012
Direction	174

Streamer Parameters				
	1	2	3	4
Length (m)	8000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	50			
Offset CS - CNG (m)	182			
Group Interval: (m)	12.5			
Number of channels	636			
Streamer Depth (m)	9.0			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	No
Depth	9.0
Sub-array Separation	8 m
COS to COS	Single Source

Recording Parameters	
Record Length	18s
Total recording delay	0
Sample Rate	2.0ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FGSP	EOL/LGSP
SP	68017	69515
Date MM/DD/YY	09/05/14	09/06/14
Time UTC	16:54	01:23
Volume (cu in.)	6600in3	6600in3
Wind (kts)	SW 2.0kts	N 4.4kts
Sea State (m)	0m	0m
Water Depth (m)	4500.1m	4933.5m

Cable	Dead Channels
1	
1	
2	
3	
3	
4	

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

General / Line Comments
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	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	USGS - Hutchinson
Area	Extended Continental Shelf - North Carolina
Job Number	MGL1407

Chief Science Officer	David Martinson		
Science Officer			
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Mike Martello 00:00-12:00	

	SOL	EOL
Tape #	107	111
SP #	70012	73893

Line	MGL1407MCS10C
Sequence	013
Direction	211

Streamer Parameters				
	1	2	3	4
Length (m)	8000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	50			
Offset CS - CNG (m)	182			
Group Interval: (m)	12.5			
Number of channels	636			
Streamer Depth (m)	9.0			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	No
Depth	9.0
Sub-array Separation	8 m
COS to COS	Single Source

Recording Parameters	
Record Length	18s
Total recording delay	0
Sample Rate	2.0ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FGSP	EOL/LGSP
SP	70012	73893
Date MM/DD/YY	09/06/14	09/06/14
Time UTC	01:28	23:27
Volume (cu in.)	6600in3	6560in3
Wind (kts)	N 3.4kts	SSW 6.1kts
Sea State (m)	0m	1m
Water Depth (m)	4932.4m	5350.6m

Cable	Dead Channels
1	
1	
2	
3	
3	
4	

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

General / Line Comments
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	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Initiation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	







# Observers Log

Vessel	Marcus G. Langseth
Client	USGS - Hutchinson
Area	Extended Continental Shelf - North Carolina
Job Number	MGL1407

Chief Science Officer	David Martinson		
Science Officer			
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Mike Martello 00:00-12:00	

	SOL	EOL
Tape #	115	120
SP #	77014	80501

Line	MGL1407MCS12A
Sequence	015
Direction	189

Streamer Parameters				
	1	2	3	4
Length (m)	8000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	50			
Offset CS - CNG (m)	182			
Group Interval: (m)	12.5			
Number of channels	636			
Streamer Depth (m)	9.0			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	No
Depth	9.0
Sub-array Separation	8 m
COS to COS	Single Source

Recording Parameters	
Record Length	18s
Total recording delay	0
Sample Rate	2.0ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FGSP	EOL/LGSP
SP	77014	80501
Date MM/DD/YY	09/07/14	09/08/14
Time UTC	16:19	12:26
Volume (cu in.)	6560in3	6560in3
Wind (kts)	SSW 9kts	S 4kts
Sea State (m)	1m	0.5m
Water Depth (m)	5404.1m	5422.1m

Cable	Dead Channels
1	
1	
2	
3	
3	
4	

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

General / Line Comments
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	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Initiation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	



# Observers Log

Vessel	Marcus G. Langseth
Client	USGS - Hutchinson
Area	Extended Continental Shelf - North Carolina
Job Number	MGL1407

Chief Science Officer	David Martinson		
Science Officer			
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Mike Martello 00:00-12:00	

	SOL	EOL
Tape #	121	123
SP #	81022	83408

Line	MGL1407MCS12B
Sequence	016
Direction	227

Streamer Parameters				
	1	2	3	4
Length (m)	8000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	50			
Offset CS - CNG (m)	182			
Group Interval: (m)	12.5			
Number of channels	636			
Streamer Depth (m)	9.0			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	No
Depth	9.0
Sub-array Separation	8 m
COS to COS	Single Source

Recording Parameters	
Record Length	18s
Total recording delay	0
Sample Rate	2.0ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FGSP	EOL/LGSP
SP	81022	83408
Date MM/DD/YY	09/08/14	09/09/14
Time UTC	12:33	02:22
Volume (cu in.)	6520in3	6600in3
Wind (kts)	S 4kts	E 4.7kts
Sea State (m)	0.5m	0.5m
Water Depth (m)	5420.6m	5423.3m

Cable	Dead Channels
1	
1	
2	
3	
3	
4	

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

General / Line Comments
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	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	USGS - Hutchinson
Area	Extended Continental Shelf - North Carolina
Job Number	MGL1407

Chief Science Officer	David Martinson		
Science Officer			
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Mike Martello 00:00-12:00	

	SOL	EOL
Tape #	124	127
SP #	84017	86665

Line	MGL1407MCS13
Sequence	017
Direction	309

Streamer Parameters				
	1	2	3	4
Length (m)	8000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	50			
Offset CS - CNG (m)	182			
Group Interval: (m)	12.5			
Number of channels	636			
Streamer Depth (m)	9.0			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	No
Depth	9.0
Sub-array Separation	8 m
COS to COS	Single Source

Recording Parameters	
Record Length	18s
Total recording delay	0
Sample Rate	2.0ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FGSP	EOL/LGSP
SP	84017	86665
Date MM/DD/YY	09/09/14	09/09/14
Time UTC	02:27	17:30
Volume (cu in.)	6600in3	6560in3
Wind (kts)	E 4.7kts	S 9.1kts
Sea State (m)	0.5m	0.5m
Water Depth (m)	5420.2m	5394.0m

Cable	Dead Channels
1	
1	
2	
3	
3	
4	

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

General / Line Comments
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	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Initiation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	



# Observers Log

Vessel	Marcus G. Langseth
Client	USGS - Hutchinson
Area	Extended Continental Shelf - North Carolina
Job Number	MGL1407

Chief Science Officer	David Martinson		
Science Officer			
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Mike Martello 00:00-12:00	

	SOL	EOL
Tape #	128	134
SP #	87023	90702

Line	MGL1407MCS14
Sequence	018
Direction	309

Streamer Parameters				
	1	2	3	4
Length (m)	6000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	50			
Offset CS - CNG (m)	182			
Group Interval: (m)	12.5			
Number of channels	468			
Streamer Depth (m)	9.0			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6560 in3
Work Pressure	1950psi +/- 100psi
Dual Source	No
Depth	9.0
Sub-array Separation	8 m
COS to COS	Single Source

Recording Parameters	
Record Length	18s
Total recording delay	0
Sample Rate	1.0ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FGSP	EOL/LGSP
SP	87023	90702
Date MM/DD/YY	09/09/14	09/10/14
Time UTC	17:37	14:48
Volume (cu in.)	6560in3	6560in3
Wind (kts)	S 9.1kts	SW 8kts
Sea State (m)	0.5m	1.5m
Water Depth (m)	5400.9m	5082.1m

Cable	Dead Channels
1	
1	
2	
3	
3	
4	

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

General / Line Comments
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	LFFSP - Last Full Fold SP
FOLSP - First Overlap SP	Fa - Feather Angle
BOT/EOT - Begin/End of Tape	SI - Seismic Interference
NDR - No Data Recorded	ITB - Initiation Time Break
NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

<b>Time UTC</b>	<b>FILE</b>	<b>SP</b>	<b>Tape</b>	<b>Description</b>
17:37	1	87023	128	SOL MGL1407MCS14 6560in3 (Guns 1-5, 2-5, 3-9, 4-5 out, All others IN)
20:51	569	87591	128	EOT
20:51	570	87592	129	BOT
22:34	873	87895	129	Power down instructed by PSO for Mammal sighting. Mitigation Gun ON.
22:47	907	87929	129	Power Down Complete, Back to full power
00:06	1138	88160	129	EOT
00:07	1139	88161	130	BOT
03:20	1707	88729	130	EOT
03:20	1708	88730	131	BOT
06:33	2276	89298	131	EOT
06:34	2277	89299	132	BOT
09:49	2845	89867	132	EOT
09:49	2846	89868	133	BOT
13:09	3414	90436	133	EOT
13:09	3415	90437	134	BOT
14:48	3680	90702	134	EOL MGL1407MCS14







