

# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	01	2
SP #	863	5161

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	950	5161
Date MM/DD/YY	06/02/15	06/03/15
Time UTC	20:30	02:48
Volume (cu in.)	700in3	700in3
Wind (kts)	NE 26	NE 18
Sea State (m)	2m	1.5m
Water Depth (m)	52m	26m

Cable	Dead Channels
1	
1	
2	
3	
3	
4	

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102860
Sequence	01
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5 ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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
Not To Be Processed for P-Cable
FGSP for P-Cable is 1811
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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	3	5
SP #	5089	864

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	SOL/FGSP	EOL/LGSP
SP	4986	864
Date MM/DD/YY	06/03/15	06/03/15
Time UTC	04:04	10:17
Volume (cu in.)	700in3	700in3
Wind (kts)	NE 20	NE 22.5
Sea State (m)	1.5m	1.5m
Water Depth (m)	27m	58m

Cable	Dead Channels
1	
1	
2	
3	
3	
4	

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101924
Sequence	02
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5 ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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
Not To Be Processed for P-Cable
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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	6	7
SP #	876	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	SOL/FGSP	EOL/LGSP
SP	876	5137
Date MM/DD/YY	06/03/15	06/04/15
Time UTC	19:34	01:48
Volume (cu in.)	700in3	700in3
Wind (kts)	E 18	E 15
Sea State (m)	2m	1m
Water Depth (m)	53m	28m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102836
Sequence	03
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	8	8
SP #	5108	3828

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	SOL/FGSP	EOL/LGSP
SP	5108	3989
Date MM/DD/YY	06/04/15	06/04/15
Time UTC	02:59	04:37
Volume (cu in.)	700in3	700in3
Wind (kts)	E 20	E 18
Sea State (m)	1m	1mm
Water Depth (m)	24m	29.7m

General / Line Comments
Line ended early due to issues with P-Cable GSP failures
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101900
Sequence	04
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	9	10
SP #	851	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	SOL/FGSP	EOL/LGSP
SP	851	5137
Date MM/DD/YY	06/04/15	6/04/15
Time UTC	17:40	23:58
Volume (cu in.)	700in3	700in3
Wind (kts)	NE 25	NE 20
Sea State (m)	2m	2m
Water Depth (m)	56m	28m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102812
Sequence	05
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	11	12
SP #	5110	864

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	SOL/FGSP	EOL/LGSP
SP	5110	864
Date MM/DD/YY	06/05/15	06/05/15
Time UTC	01:07	07:29
Volume (cu in.)	700in3	700in3
Wind (kts)	ENE 24	ENE 19.5
Sea State (m)	1.5m	2m
Water Depth (m)	24.4m	53.2m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101900R
Sequence	06
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	13	14
SP #	1001	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	SOL/FGSP	EOL/LGSP
SP	1001	5137
Date MM/DD/YY	06/05/15	06/05/15
Time UTC	08:38	14:53
Volume (cu in.)	700in3	700in3
Wind (kts)	ENE 18.4	ENE 15.3
Sea State (m)	1.5m	1m
Water Depth (m)	49.61m	27.7m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102788
Sequence	07
Direction	312

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	15	16
SP #	5109	865

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	213.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	SOL/FGSP	EOL/LGSP
SP	5109	865
Date MM/DD/YY	06/05/15	6/05/15
Time UTC	16:03	22:28
Volume (cu in.)	700in3	700in3
Wind (kts)	NE 18	NE 17
Sea State (m)	1m	1m
Water Depth (m)	23.1m	52.8m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101876
Sequence	08
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	





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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	17	17
SP #	884	3312

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	SOL/FGSP	EOL/LGSP
SP	884	2924
Date MM/DD/YY	06/05/15	06/06/15
Time UTC	23:36	02:33
Volume (cu in.)	700in3	700in3
Wind (kts)	NE 13	N 9
Sea State (m)	1m	1m
Water Depth (m)	53.4m	28.3m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102764
Sequence	09
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	18	19
SP #	5123	865

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	SOL/FGSP	EOL/LGSP
SP	5000	865
Date MM/DD/YY	06/06/15	06/06/15
Time UTC	14:31	20:35
Volume (cu in.)	700in3	700in3
Wind (kts)	W 4.6	NE 17
Sea State (m)	<1m	0.5m
Water Depth (m)	26.62m	52.7m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101852
Sequence	010
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	20	21
SP #	885	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	SOL/FGSP	EOL/LGSP
SP	885	5137
Date MM/DD/YY	06/06/15	06/07/15
Time UTC	21:43	3:56
Volume (cu in.)	700in3	700in3
Wind (kts)	NE 11	E 11
Sea State (m)	0.5m	0.5m
Water Depth (m)	53.7m	27.8m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102740
Sequence	011
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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

[illegible]




# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	22	23
SP #	5128	865

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	SOL/FGSP	EOL/LGSP
SP	5125	865
Date MM/DD/YY	06/07/15	06/07/15
Time UTC	05:04	11:26
Volume (cu in.)	700in3	700in3
Wind (kts)	NE 9.4	NE 9.6
Sea State (m)	0m	0m
Water Depth (m)	23.3m	53.0m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101828
Sequence	012
Direction	122

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	24	25
SP #	857	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	857	5137
Date MM/DD/YY	06/07/15	06/07/15
Time UTC	13:07	19:40
Volume (cu in.)	700in3	700in3
Wind (kts)	NE 6.8	S 5
Sea State (m)	0m	0m
Water Depth (m)	52.64m	27m

Cable	Dead Channels
1	
1	
2	
3	
3	
4	

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102716
Sequence	013
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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
Changed Gun String #1 to have guns on G3 - 40in3, G4 -180in3 (spared), G5 & 6 - 180in3, G7 - 120in3, G9&10 (spared 10) - 220in3
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	



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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	26	27
SP #	5110	865

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	5110	865
Date MM/DD/YY	06/07/15	06/08/15
Time UTC	20:44	03:30
Volume (cu in.)	700in3	700in3
Wind (kts)	SE 3	SE8
Sea State (m)	0m	1m
Water Depth (m)	22m	55m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101924R
Sequence	014
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	28	28
SP #	866	2986

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	866	2986
Date MM/DD/YY	06/08/15	06/08/15
Time UTC	04:31	07:52
Volume (cu in.)	700in3	700in3
Wind (kts)	SE 5.0	SE 12.2
Sea State (m)	0.5m	0.5m
Water Depth (m)	53.6m	27.47m

Cable	Dead Channels
1	
1	
2	
3	
3	
4	

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102692
Sequence	015
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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	

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Observers Log	
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<b>Vessel</b>	<b>Marcus G. Langseth</b>
<b>Client</b>	<b>Greg Mountain</b>
<b>Area</b>	<b>NJ Margin 3D</b>
<b>Job Number</b>	<b>MGL1510</b>

<b>Chief Science Officer</b>	<b>Robert Steinhaus</b>		
<b>Science Officer</b>	<b>Dave Martinson</b>		
<b>Acquisition Leader</b>	<b>Klayton Curtis 12:00-24:00</b>	<b>Robert Koprowski 00:00-12:00</b>	
<b>Navigation Leader</b>	<b>Alan Thompson 12:00-24:00</b>	<b>Shane Traceski 00:00-12:00</b>	

	SOL	EOL
<b>Tape #</b>	<b>29</b>	<b>30</b>
<b>SP #</b>	<b>876</b>	<b>5137</b>

<b>Line</b>	<b>MGL15102668</b>
<b>Sequence</b>	<b>016</b>
<b>Direction</b>	<b>304</b>

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, $\mu$ B				
EOL Cable Noise, $\mu$ B				

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz / 12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

Description	FGSP	LGSP
SP	876	5137
Date MM/DD/YY	06/08/15	06/09/15
Time UTC	20:30	03:01
Volume (cu in.)	700in3	700in3
Wind (kts)	S 20	S 23
Sea State (m)	1m	2m
Water Depth (m)	53m	26m

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

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	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	31	32
SP #	5028	865

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	5028	865
Date MM/DD/YY	06/09/15	06/09/15
Time UTC	4:17	10:40
Volume (cu in.)	700in3	700in3
Wind (kts)	W 12.4	SW 23.1
Sea State (m)	1-2m	1-2m
Water Depth (m)	28.4m	53.4m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101804
Sequence	017
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	33	34
SP #	890	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	890	5137
Date MM/DD/YY	06/09/15	06/09/15
Time UTC	11:47	18:12
Volume (cu in.)	700in3	700in3
Wind (kts)	S 18.7	S 20
Sea State (m)	1-2m	2m
Water Depth (m)	54.3m	26.6m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102644
Sequence	018
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	35	36
SP #	4529	960

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	4529	960
Date MM/DD/YY	06/09/15	06/09/15
Time UTC	20:17	01:34
Volume (cu in.)	700in3	700in3
Wind (kts)	SE 18	SW 15
Sea State (m)	2m	2m
Water Depth (m)	26.4m	55m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101780
Sequence	019
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	37	38
SP #	878	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	878	5137
Date MM/DD/YY	06/10/15	06/10/15
Time UTC	02:48	9:24
Volume (cu in.)	700in3	700in3
Wind (kts)	SW 18	W 6
Sea State (m)	2m	0.5m
Water Depth (m)	53m	26.5m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102620
Sequence	020
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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



[illegible]


# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	39	40
SP #	5106	865

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	236			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	5106	865
Date MM/DD/YY	06/10/15	06/10/15
Time UTC	10:30	17:15
Volume (cu in.)	700in3	700in3
Wind (kts)	NW 5.1	W 4
Sea State (m)	0.5m	0.5m
Water Depth (m)	23.4m	54.9m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101780R
Sequence	021
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	41	42
SP #	879	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	879	5137
Date MM/DD/YY	06/10/15	06/11/15
Time UTC	18:21	01:06
Volume (cu in.)	700in3	700in3
Wind (kts)	SW 7	SW 18
Sea State (m)	0.5m	0.5m
Water Depth (m)	56.1m	25.7m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102596
Sequence	022
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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



[illegible]

[illegible]

# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	43	44
SP #	5129	865

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	5129	865
Date MM/DD/YY	06/11/15	06/11/15
Time UTC	02:12	9:01
Volume (cu in.)	700in3	700in3
Wind (kts)	SW 10	SW 13.9
Sea State (m)	0.5m	0.5m
Water Depth (m)	22.9m	53.9m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101756
Sequence	023
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	45	46
SP #	1503	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	1503	5137
Date MM/DD/YY	06/11/15	06/11/15
Time UTC	14:51	20:14
Volume (cu in.)	700in3	700in3
Wind (kts)	S 16.4	S 20
Sea State (m)	0m	1m
Water Depth (m)	37.1m	28m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102668R
Sequence	024
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	47	48
SP #	5125	865

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	5125	865
Date MM/DD/YY	06/11/15	06/11/15
Time UTC	21:30	3:45
Volume (cu in.)	700in3	700in3
Wind (kts)	S 15	SW 19
Sea State (m)	1m	1m
Water Depth (m)	23.5m	52.7m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101732
Sequence	025
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	49	50
SP #	854	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	854	5137
Date MM/DD/YY	06/12/15	06/12/15
Time UTC	5:48	12:17
Volume (cu in.)	700in3	700in3
Wind (kts)	SW 14.7	SW 2
Sea State (m)	1m	.5-1m
Water Depth (m)	58.3m	27.2m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102860R
Sequence	026
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	51	52
SP #	5147	865

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	5147	865
Date MM/DD/YY	06/12/15	06/12/15
Time UTC	13:42	20:18
Volume (cu in.)	700in3	700in3
Wind (kts)	SW 4.3	SW 12
Sea State (m)	.5-1m	0.5m
Water Depth (m)	21.4m	54.6m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101708
Sequence	027
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	53	54
SP #	875	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	875	5137
Date MM/DD/YY	06/12/15	06/13/15
Time UTC	21:25	4:08
Volume (cu in.)	700in3	700in3
Wind (kts)	SW 20	SSW 21.3
Sea State (m)	0.5m	0.5m
Water Depth (m)	54.1m	25.1m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102572
Sequence	028
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	55	56
SP #	5129	1944

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	5129	1944
Date MM/DD/YY	06/13/15	06/13/15
Time UTC	5:09	10:17
Volume (cu in.)	700in3	700in3
Wind (kts)	SSW 17.1	WSW 13.4
Sea State (m)	1m	1m
Water Depth (m)	21.2m	27.9m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101852I
Sequence	029
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	57	58
SP #	1913	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	1913	5137
Date MM/DD/YY	06/13/15	06/13/15
Time UTC	11:22	16:35
Volume (cu in.)	700in3	700in3
Wind (kts)	W 13.9	N 13
Sea State (m)	1m	1m
Water Depth (m)	36.7m	26.5m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102692R
Sequence	030
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	59	60
SP #	5125	865

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	5125	865
Date MM/DD/YY	06/13/15	06/14/15
Time UTC	17:48	00:19
Volume (cu in.)	700in3	700in3
Wind (kts)	N 12	E 8
Sea State (m)	1m	0m
Water Depth (m)	23m	53m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101684
Sequence	031
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	61	62
SP #	885	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	885	5137
Date MM/DD/YY	06/14/15	06/14/15
Time UTC	01:26	7:46
Volume (cu in.)	700in3	700in3
Wind (kts)	E 8	SSW 4.1
Sea State (m)	0m	0.5m
Water Depth (m)	52m	25.6m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102548
Sequence	032
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	63	64
SP #	5145	911

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	5145	911
Date MM/DD/YY	06/14/15	06/14/15
Time UTC	8:54	15:18
Volume (cu in.)	700in3	700in3
Wind (kts)	SW 2.5	NE 5.5
Sea State (m)	0.5m	0m
Water Depth (m)	22.7m	52.2m

Cable	Dead Channels
1	
1	
2	
3	
3	
4	

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101660
Sequence	033
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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
Due to multiple powerdowns all data from 1690 to EOL is Not To Be Processed
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	

[illegible]

# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	65	66
SP #	961	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	961	5137
Date MM/DD/YY	06/14/15	22:52
Time UTC	16:45	22:52
Volume (cu in.)	700in3	700in3
Wind (kts)	E 3	S 12
Sea State (m)	calm	0.5m
Water Depth (m)	52m	27m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102572R
Sequence	034
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	67	68
SP #	5130	865

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	5130	865
Date MM/DD/YY	06/15/15	06/15/15
Time UTC	00:08	6:25
Volume (cu in.)	700in3	700in3
Wind (kts)	SE 10	SE 8.5
Sea State (m)	0.5m	0m
Water Depth (m)	25m	53.9m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101636
Sequence	035
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5 ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	69	70
SP #	860	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	860	5137
Date MM/DD/YY	06/15/15	06/15/15
Time UTC	7:32	14:02
Volume (cu in.)	700in3	700in3
Wind (kts)	SE 5.3	SSW 18.3
Sea State (m)	0m	0.5m
Water Depth (m)	54.5m	25.4m

Cable	Dead Channels
1	
1	
2	
3	
3	
4	

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102524
Sequence	036
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5 ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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	

[illegible]

[illegible]

# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	71	72
SP #	5142	865

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	5142	865
Date MM/DD/YY	06/15/15	06/15/15
Time UTC	15:10	22:08
Volume (cu in.)	700in3	700in3
Wind (kts)	SSw 12.6	SW 10
Sea State (m)	0.5m	1m
Water Depth (m)	22.4m	54.4m

Cable	Dead Channels
1	
1	
2	
3	
3	
4	

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101612
Sequence	037
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5 ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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	



[illegible]




# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	73	74
SP #	872	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	872	5137
Date MM/DD/YY	06/15/15	06/16/2015
Time UTC	23:17	6:25
Volume (cu in.)	700in3	700in3
Wind (kts)	S 7	NNE 9.3
Sea State (m)	1m	0m
Water Depth (m)	53.7m	24.8m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102500
Sequence	038
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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

[illegible]



# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	75	76
SP #	5147	865

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	5147	865
Date MM/DD/YY	06/16/15	06/16/2015
Time UTC	7:33	14:08
Volume (cu in.)	700in3	700in3
Wind (kts)	NNE 14.8	0
Sea State (m)	0.5m	0.5m
Water Depth (m)	22.0m	53.5m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101588
Sequence	039
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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

[illegible]





# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	77	78
SP #	858	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	858	5137
Date MM/DD/YY	06/16/15	06/16/2015
Time UTC	15:57	22:13
Volume (cu in.)	700in3	700in3
Wind (kts)	SW 9	SW 22
Sea State (m)	0.5m	0.5m
Water Depth (m)	53.4m	26.0m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102476
Sequence	040
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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

[illegible]



# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	79	80
SP #	5102	864

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	5102	864
Date MM/DD/YY	06/16/15	06/17/15
Time UTC	23:23	5:32
Volume (cu in.)	700in3	700in3
Wind (kts)	NE 1.5	NW 8.8
Sea State (m)	0.5m	0.5m
Water Depth (m)	25.0m	54.7m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101564
Sequence	041
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth	Chief Science Officer	Robert Steinhaus		
Client	Greg Mountain	Science Officer	Dave Martinson		
Area	NJ Margin 3D	Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Job Number	MGL1510	Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

<b>Chief Science Officer</b>	<b>Robert Steinhaus</b>		
<b>Science Officer</b>	<b>Dave Martinson</b>		
<b>Acquisition Leader</b>	<b>Klayton Curtis 12:00-24:00</b>	<b>Robert Koprowski 00:00-12:00</b>	
<b>Navigation Leader</b>	<b>Alan Thompson 12:00-24:00</b>	<b>Shane Traceski 00:00-12:00</b>	

	SOL	EOL
Tape #	81	82
SP #	857	5137

<b>Line</b>	<b>MGL15102452</b>
<b>Sequence</b>	<b>042</b>
<b>Direction</b>	<b>304</b>

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz / 12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

Description	FGSP	LGSP
SP	857	5137
Date MM/DD/YY	06/17/15	06/17/15
Time UTC	6:40	13:01
Volume (cu in.)	700in3	700in3
Wind (kts)	NW 11.5	NNE 12.2
Sea State (m)	0.5m	0.5m
Water Depth (m)	53.8m	25.5m

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

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

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	

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



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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	83	84
SP #	5140	865

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	5140	1290
Date MM/DD/YY	06/17/15	06/17/15
Time UTC	14:09	19:49
Volume (cu in.)	700in3	700in3
Wind (kts)	20.1	NE 17
Sea State (m)	1.5m	0.5m
Water Depth (m)	23.2m	54.4m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101540
Sequence	043
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	85	86
SP #	866	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	866	5137
Date MM/DD/YY	06/17/15	06/18/15
Time UTC	21:41	4:06
Volume (cu in.)	700in3	700in3
Wind (kts)	E 12	ESE 9.2
Sea State (m)	1m	0.5m
Water Depth (m)	53.6m	25.4m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102428
Sequence	044
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	87	88
SP #	5147	865

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	5147	865
Date MM/DD/YY	06/18/15	06/18/15
Time UTC	5:24	12:10
Volume (cu in.)	700in3	700in3
Wind (kts)	ESE 8.2	SE 6.8
Sea State (m)	0.5m	0.5-1m
Water Depth (m)	22.6m	55.2m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101516
Sequence	045
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	89	90
SP #	858	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	858	5137
Date MM/DD/YY	06/18/15	06/18/15
Time UTC	13:16	20:09
Volume (cu in.)	700in3	700in3
Wind (kts)	E 4.8	SE 8
Sea State (m)	0.5-1m	0.5-1m
Water Depth (m)	54.6m	24.7m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102404
Sequence	046
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	91	92
SP #	5136	4830

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	5136	4830
Date MM/DD/YY	06/18/15	06/18/15
Time UTC	22:01	22:32
Volume (cu in.)	700in3	700in3
Wind (kts)	SE 11.7	SE 11.7
Sea State (m)	1m	1m
Water Depth (m)	21.5m	28.3m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101756I
Sequence	047
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	92	92
SP #	1651	865

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	210			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	1651	865
Date MM/DD/YY	06/18/15	06/19/15
Time UTC	4:06	5:15
Volume (cu in.)	700in3	700in3
Wind (kts)	SE 9.2	SE 7.5
Sea State (m)	0.5m	0.5m
Water Depth (m)	37.9m	55.5m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101756J
Sequence	048
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	93	94
SP #	860	3701

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	860	3701
Date MM/DD/YY	06/19/15	06/19/15
Time UTC	6:24	10:45
Volume (cu in.)	700in3	700in3
Wind (kts)	SE 9.0	W 3.7
Sea State (m)	1m	1m
Water Depth (m)	53.9m	32.1m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102572S
Sequence	049
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	95	96
SP #	3885	864

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	3885	864
Date MM/DD/YY	06/19/15	06/19/15
Time UTC	12:51	17:19
Volume (cu in.)	700in3	700in3
Wind (kts)	WSW 7.1	WNW 6.5
Sea State (m)	1m	1m
Water Depth (m)	31.2m	53.5m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101900I
Sequence	050
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	97	98
SP #	878	3503

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	878	3503
Date MM/DD/YY	06/19/15	06/19/15
Time UTC	18:22	22:19
Volume (cu in.)	700in3	700in3
Wind (kts)	W 6	SW 10
Sea State (m)	0m	1m
Water Depth (m)	52m	28.6m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102380
Sequence	051
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	99	101
SP #	2978	865

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	2978	865
Date MM/DD/YY	06/19/15	06/20/15
Time UTC	03:41	6:44
Volume (cu in.)	700in3	700in3
Wind (kts)	E 3	SE 4.1
Sea State (m)	0m	1m
Water Depth (m)	29m	54.7m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101660S
Sequence	052
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	102	103
SP #	860	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	860	5137
Date MM/DD/YY	06/20/15	06/20/15
Time UTC	7:46	14:09
Volume (cu in.)	700in3	700in3
Wind (kts)	ESE 5.3	ESE 13.1
Sea State (m)	1m	0.5m
Water Depth (m)	53.4m	25.8m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102356
Sequence	053
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	



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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	104	105
SP #	5148	865

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	5148	865
Date MM/DD/YY	06/20/15	06/20/15
Time UTC	15:14	21:28
Volume (cu in.)	700in3	700in3
Wind (kts)	E 11	SE 10
Sea State (m)	0.5-1m	1m
Water Depth (m)	23.1m	55.0m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101492
Sequence	054
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	106	107
SP #	871	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	871	5137
Date MM/DD/YY	06/20/15	06/21/15
Time UTC	22:35	4:51
Volume (cu in.)	700in3	700in3
Wind (kts)	SE 5	SE 5.5
Sea State (m)	0.5m	0.5m
Water Depth (m)	53.7m	25.5m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102332
Sequence	055
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	108	109
SP #	5138	865

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	5138	865
Date MM/DD/YY	06/21/15	06/21/15
Time UTC	5:57	12:26
Volume (cu in.)	700in3	700in3
Wind (kts)	SE 16.1	SE 14.0
Sea State (m)	1m	1.5m
Water Depth (m)	23.8m	56.7m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101468
Sequence	056
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	110	111
SP #	866	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	866	5137
Date MM/DD/YY	06/21/15	06/21/15
Time UTC	13:27	20:02
Volume (cu in.)	700in3	700in3
Wind (kts)	S 24.6	SW 12.5
Sea State (m)	1.5-2m	1-1.5m
Water Depth (m)	53.4m	24.7m

Cable	Dead Channels
1	
1	
2	
3	
3	
4	

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102308
Sequence	057
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	112	113
SP #	5129	

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	5129	
Date MM/DD/YY	06/21/15	
Time UTC	21:20	
Volume (cu in.)	700in3	700in3
Wind (kts)	SW 11	
Sea State (m)	1m	
Water Depth (m)	22m	

Cable	Dead Channels
1	
1	
2	
3	
3	
4	

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101444
Sequence	058
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	114	115
SP #	858	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	
SP	858	5137
Date MM/DD/YY	06/22/15	06/22/15
Time UTC	4:57	11:38
Volume (cu in.)	700in3	700in3
Wind (kts)	SW 16.4	NW 12.1
Sea State (m)	1m	1-1.5m
Water Depth (m)	54.3m	25.1m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102284
Sequence	059
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	116	117
SP #	5148	865

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	5148	865
Date MM/DD/YY	06/22/15	06/22/15
Time UTC	12:44	19:60
Volume (cu in.)	700in3	700in3
Wind (kts)	NW 4.3	W 12
Sea State (m)	1-1.5m	0.5m
Water Depth (m)	22.7m	55m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101420
Sequence	060
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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

[illegible]





# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	118	119
SP #	871	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	871	5137
Date MM/DD/YY	06/22/15	06/23/15
Time UTC	20:19	02:49
Volume (cu in.)	700in3	700in3
Wind (kts)	SW 10	SW 17
Sea State (m)	0.5m	1m
Water Depth (m)	53m	26m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102260
Sequence	061
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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

[illegible]



# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	120	121
SP #	5135	865

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	5135	865
Date MM/DD/YY	06/23/15	06/23/15
Time UTC	3:55	10:28
Volume (cu in.)	700in3	700in3
Wind (kts)	SW 15.4	SW 4.5
Sea State (m)	1.0m	1m
Water Depth (m)	22.1m	54.5m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101396
Sequence	062
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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

[illegible]



# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	122	123
SP #	858	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	858	5137
Date MM/DD/YY	06/23/15	06/23/15
Time UTC	11:31	17:57
Volume (cu in.)	700in3	700in3
Wind (kts)	SSW 13.1	SSW 18.3
Sea State (m)	1m	1m
Water Depth (m)	52.9m	25.1m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102236
Sequence	063
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	124	125
SP #	5130	865

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	5130	865
Date MM/DD/YY	06/23/15	06/24/15
Time UTC	19:05	1:35
Volume (cu in.)	700in3	700in3
Wind (kts)	SW 20	SW 17.5
Sea State (m)	1.5m	1.5m
Water Depth (m)	22m	55.3m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101372
Sequence	064
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	126	127
SP #	875	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	875	5137
Date MM/DD/YY	06/23/2015	06/24/2015
Time UTC	02:42	09:14
Volume (cu in.)	700in3	700in3
Wind (kts)	SW 35	NNW 12.1
Sea State (m)	1.5m	1m
Water Depth (m)	53.1m	24.0m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102212
Sequence	065
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	128	129
SP #	5147	865

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	5147	865
Date MM/DD/YY	06/24/2015	06/24/2015
Time UTC	10:30	16:52
Volume (cu in.)	700in3	700in3
Wind (kts)	NNW 10.4	NW 6
Sea State (m)	1m	0.5m
Water Depth (m)	24.1m	56.3m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101348
Sequence	066
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	



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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	130	131
SP #	873	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	873	5137
Date MM/DD/YY	06/24/15	06/25/15
Time UTC	17:57	0:24
Volume (cu in.)	700in3	700in3
Wind (kts)	NW 6.5	S 10.3
Sea State (m)	1m	1m
Water Depth (m)	53.8m	23.6m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102164
Sequence	067
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	132	133
SP #	5131	865

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	5131	865
Date MM/DD/YY	06/25/15	06/25/15
Time UTC	01:30	7:58
Volume (cu in.)	700in3	700in3
Wind (kts)	SSW 10	NW 4.4
Sea State (m)	0.5m	0.5m
Water Depth (m)	20.9m	57.5m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101324
Sequence	068
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	134	135
SP #	885	4667

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	885	4667
Date MM/DD/YY	06/25/15	06/25/15
Time UTC	9:02	14:57
Volume (cu in.)	700in3	700in3
Wind (kts)	NNW 8.8	NE 4.7
Sea State (m)	0.5m	0.5m
Water Depth (m)	53.8m	27.4m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102116
Sequence	069
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	136	137
SP #	872	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	872	5137
Date MM/DD/YY	06/26/15	06/26/15
Time UTC	1:06	7:32
Volume (cu in.)	700in3	700in3
Wind (kts)	S 8.6	ESE 5.8
Sea State (m)	0.5m	0.5m
Water Depth (m)	53.1m	23.2m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102068
Sequence	070
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	138	139
SP #	5134	865

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	5134	865
Date MM/DD/YY	06/26/15	06/26/15
Time UTC	8:45	15:16
Volume (cu in.)	700in3	700in3
Wind (kts)	ESE 7.8	NE 14.8
Sea State (m)	0.5m	0.5m
Water Depth (m)	22.5m	55.5m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101300
Sequence	071
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	140	140
SP #	872	1636

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	872	1636
Date MM/DD/YY	06/26/15	06/26/15
Time UTC	16:15	17:33
Volume (cu in.)	700in3	700in3
Wind (kts)	NE 11	NE 7.5
Sea State (m)	0.5m	0.5m
Water Depth (m)	53.4m	33.77m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102020
Sequence	072
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	141	142
SP #	5105	865

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	5105	865
Date MM/DD/YY	06/27/15	06/27/15
Time UTC	01:05	7:51
Volume (cu in.)	700in3	700in3
Wind (kts)	SSE 2	ENE 13.4
Sea State (m)	0.5m	0.5m
Water Depth (m)	19.9m	55.9m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101276
Sequence	073
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	



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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	143	144
SP #	866	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	866	5137
Date MM/DD/YY	06/27/15	06/27/15
Time UTC	8:53	15:39
Volume (cu in.)	700in3	700in3
Wind (kts)	ENE 14.1	E 19.4
Sea State (m)	1.0m	1.5m
Water Depth (m)	53.9m	21.5m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102020R
Sequence	074
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	145	146
SP #	5130	865

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	5130	865
Date MM/DD/YY	06/27/15	06/27/15
Time UTC	16:43	23:22
Volume (cu in.)	700in3	700in3
Wind (kts)	SE 15	E 29.7
Sea State (m)	1m	2-3m
Water Depth (m)	20.8m	56m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101252
Sequence	075
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	147	148
SP #	873	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	873	5137
Date MM/DD/YY	06/28/15	06/28/15
Time UTC	00:23	6:48
Volume (cu in.)	700in3	700in3
Wind (kts)	E 23	SE 4.4
Sea State (m)	2-3m	2-3m
Water Depth (m)	53.6m	22.7m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101996
Sequence	076
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	149	150
SP #	5134	865

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	5134	865
Date MM/DD/YY	06/28/15	06/28/15
Time UTC	7:50	14:22
Volume (cu in.)	700in3	700in3
Wind (kts)	S 8	SW 17.8
Sea State (m)	2-2.5m	2m
Water Depth (m)	20m	55.1m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101228
Sequence	077
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	151	152
SP #	857	5137

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	857	5137
Date MM/DD/YY	06/28/15	06/28/15
Time UTC	15:33	21:59
Volume (cu in.)	700in3	700in3
Wind (kts)	SW 22.8	SW 14
Sea State (m)	2m	2m
Water Depth (m)	53.1m	24.6m

General / Line Comments
SOL NOISY CHANNELS
EOL NOISY CHANNELS

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15102188
Sequence	078
Direction	304

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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

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	

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# Observers Log

Vessel	Marcus G. Langseth
Client	Greg Mountain
Area	NJ Margin 3D
Job Number	MGL1510

	SOL	EOL
Tape #	153	154
SP #	5133	865

Streamer Parameters				
	1	2	3	4
Length (m)	3000			
Auxiliaries	n/a			
Shotpoint Interval: (m)	12.5			
Offset CS - CNG (m)	231.5			
Group Interval: (m)	12.5			
Number of channels	240			
Streamer Depth (m)	4.5			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Description	FGSP	LGSP
SP	5133	865
Date MM/DD/YY	06/28/15	06/29/15
Time UTC	23:12	5:44
Volume (cu in.)	700in3	700in3
Wind (kts)	SW 17	W 19.8
Sea State (m)	2m	1.5m
Water Depth (m)	20.8m	55.4m

Cable	Dead Channels
1	
1	
2	
3	
3	
4	

Chief Science Officer	Robert Steinhaus		
Science Officer	Dave Martinson		
Acquisition Leader	Klayton Curtis 12:00-24:00	Robert Koprowski 00:00-12:00	
Navigation Leader	Alan Thompson 12:00-24:00	Shane Traceski 00:00-12:00	

Line	MGL15101204
Sequence	079
Direction	124

Source Parameters	
Total Volume	700 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	4.5
Sub-array Separation	N/A
COS to COS	Single Source

Recording Parameters	
Record Length	4096
Total recording delay	0
Sample Rate	0.5ms
Polarity	N/A
Low-Cut	2Hz /12DB
Hi-Cut	824Hz / 276DB
Tape Format	SEGD rev. 2

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	

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