

# Observers Log      Source only

Vessel	Marcus G. Langseth
Client	James Gaherty
Area	Line Islands
Job Number	MGL1115

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

	SOL	EOL		
Tape #	NA	NA	FGSP	9957
SP #	9957	10019	LGSP	10019

Line	MGL1115test
Sequence	001
Direction	258

Streamer Parameters				
	1	2	3	4
Length (m)	N/A	N/A	N/A	N/A
Auxiliaries	N/A			
Shotpoint Interval: (m)	25 m			
Offset CS - CNG (m)	N/A			
Group Interval: (m)	N/A			
Number of channels	N/A			
Streamer Depth (m)	N/A			
SOL Cable Noise, µB	N/A			
EOL Cable Noise, µB	N/A			

Source Parameters	
Total Volume	6600/in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	9m
Source Separation	8m
COS to COS	

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

Description	SOL/FQCSP	EOL/LQCSP
Date MM/DD/YY	12/07/11	12/07/11
Time UTC	0902	0916
Volume (cu in.)	3300in3	3300in3
Wind (kts)	8-9 NE	10 NE
Sea State (m)	1-2m	2m
Water Depth (m)	5080m	5193m

Cable	EOL High Noise Channels (in u-bar)
1	N/A
2	N/A
3	N/A
4	N/A

ProMax - QC the above channels

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

General / Line Comments
Line being shot on 25 meter shot spacing
SOL SP9957
EOL SP10019
Test line for deploying and troubleshooting source array. Gun string 4 gun 2 had a solenoid failure 9 and 10 had comm errors.

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

Source only

Vessel

Client

Area

Job Number

Marcus G. Langseth

James Gaherty

Line Islands

MGL1115

Chief Science Officer

Science Officer

Acquisition Leader

Navigation Leader

Robert Steinhaus

David Martinson

Ryan Eaton 12:00-24:00

David Martinson 12:00-24:00

Bern McKiernan 00:00-12:00

Mike Martello 00:00-12:00

SOL

EOL

NA

NA

10020

10460

FGSP

LGSP

10020

10460

Line

Sequence

Direction

TEST-2

002

272

Streamer Parameters

1

2

3

4

Length (m)

Auxiliaries

Shotpoint Interval: (m)

Offset CS - CNG (m)

Group Interval: (m)

Number of channels

Streamer Depth (m)

SOL Cable Noise, µB

EOL Cable Noise, µB

N/A

N/A

25

N/A

N/A

N/A

N/A

N/A

N/A

Source Parameters

Total Volume

Work Pressure

Dual Source

Depth

Source Separation

COS to COS

6600/in3

1950psi +/- 100psi

no

9m

8m

Recording Parameters

Record Length

Total recording delay

Sample Rate

Polarity

Low-Cut

Hi-Cut

Tape Format

N/A

N/A

N/A

N/A

N/A

N/A

N/A

Description

SOL/FQCSP

EOL/LQCSP

12/07/11

12/07/11

Time UTC

0916

1059

Volume (cu in.)

3300in3

6560in3

Wind (kts)

10

10

Sea State (m)

2m

2m

Water Depth (m)

5128m

5117m

Cable

EOL High Noise Channels (in u-bar)

1

2

3

4

N/A

N/A

N/A

N/A

ProMax - QC the above channels

Auxiliaries

Aux. 1-8

Aux. 13-16

Aux 9 Gun hydrophone

Aux 10 Gun hydrophone

Aux 11 Gun hydrophone

Aux 12 Gun hydrophone

Empty

Empty

Empty

Empty

Empty

Empty

General / Line Comments

SOL SP 10020

EOL SP10460

Troubleshooting of source array. Gun String 4 had a solenoid on gun 2 replaced and a GCM on gubn 9/10. S4G02 unable to time adjust

Secured GS4G02.GS4G03. Enabled GS4G05 GS3G05 new volume 6560 in3

Abbreviations

SOL/EOL - Start/End of Line

FGSP- First Good SP

FCSP - First Chargable SP

FOLSP - First Overlap SP

BOT/EOT - Begin/End of Tape

NDR - No Data Recorded

NDR - No Data Recorded

N.T.B.P. - Not To Be Processed

LGSP - Last Good SP

LCSP - Last Chargable SP

LFFSP - Last Full Fold SP

Fa - Feather Angle

SI - Seismic Interference

ITB - Imitation Time Break

ITB - Internal Time Break

Printed - 3/1/2012 1:43 PM

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Vessel	Marcus G. Langseth
Client	James Gaherty
Area	Line Islands
Job Number	MGL1115

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

	SOL	EOL		
Tape #	NA	NA	FGSP	1399
SP #	1399	998	LGSP	998

Line	MGL1115001
Sequence	003
Direction	78.7

Streamer Parameters				
	1	2	3	4
Length (m)	N/A	N/A	N/A	N/A
Auxiliaries	N/A			
Shotpoint Interval: (m)	600			
Offset CS - CNG (m)	N/A			
Group Interval: (m)	N/A			
Number of channels	N/A			
Streamer Depth (m)	N/A			
SOL Cable Noise, µB	N/A			
EOL Cable Noise, µB	N/A			

Source Parameters	
Total Volume	6600/in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	9m
Source Separation	8m
COS to COS	

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

Description	SOL/FQCSP	EOL/LQCSP
Date MM/DD/YY	12/07/11	12/08/11
Time UTC	1156	1715
Volume (cu in.)	6560in3	6520in3in3
Wind (kts)	18NE	10E
Sea State (m)	2m	2m
Water Depth (m)	5110m	5187m

Cable	EOL High Noise Channels (in u-bar)
1	N/A
2	N/A
3	N/A
4	N/A

ProMax - QC the above channels

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

General / Line Comments
SOL SP 1399 S4G02, S4G03 disabled. S4G05, S3G05 enabled total volume 6560 in3
EOL SP 998
SP 1259 Disabled S3g01 due to no fire condition S3G4 only to allow the additional spares to fire ENABLED S2G5 S1G5 new volume to 6520
SP1175 Disabled entire gun string 2 due to parted separation line, reduced volume to 4690 in3
SP1169 Enabled entire gun string after repair to separation line, max volume at 6520 in3

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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	Jame Gaherty
Area	Line Islands
Job Number	MGL1115

Chief Science Officer			
Science Officer			
Acquisition Leader			
Navigation Leader			

	SOL	EOL		
Tape #	001	001	FGSP	984
SP #	984	1007	LGSP	1007

Line	MGL1115002
Sequence	004
Direction	259

Streamer Parameters				
	1	2	3	4
Length (m)	6000			
Auxiliaries				
Shotpoint Interval: (m)	600			
Offset CS - CNG (m)				
Group Interval: (m)	12.5			
Number of channels	468			
Streamer Depth (m)	9m			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	6m
Source Separation	n/a
COS to COS	

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

Description	SOL/FQCSP	EOL/LQCSP
Date MM/DD/YY	12/09/11	12/09/11
Time UTC	1401	1533
Volume (cu in.)	6560in3	6560in3
Wind (kts)	0	0
Sea State (m)	1m	1m
Water Depth (m)	4997m	5221.2m

Cable	EOL High Noise Channels (in u-bar)
1	
2	
3	
4	

ProMax - QC the above channels

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

General / Line Comments
SOL SP984
Disabled S4G02.S4G03 due to gun errors on S4G02, Enabled S4G05, S3G05 new volume 6560 in3
Bird 07 has bad depth fin set to -5 fin angle
Sea noise in record
SP991 triggered internal timing on digishot to prevent missed shot
1533 ABORTED line due to spectra processing nav issues
DO NOT PROCESS

Abbreviations	
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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]



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Job Number	MGL1115

Chief Science Officer			
Science Officer			
Acquisition Leader			
Navigation Leader			

	SOL	EOL		
Tape #	002	002	FGSP	975
SP #	975	1350	LGSP	1340

Line	MGL1115002A
Sequence	005
Direction	259

Streamer Parameters				
	1	2	3	4
Length (m)	6000			
Auxiliaries				
Shotpoint Interval: (m)	600			
Offset CS - CNG (m)				
Group Interval: (m)	12.5			
Number of channels	468			
Streamer Depth (m)	9m			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

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

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

Description	SOL/FQCSP	EOL/LQCSP
Date MM/DD/YY	12/09/11	12/10/11
Time UTC	1956	2307
Volume (cu in.)	6600in3	6600in3
Wind (kts)	8-10	0
Sea State (m)	1m	1m
Water Depth (m)	5001.2m	5216m

Cable	EOL High Noise Channels (in u-bar)
1	Unable to measure due to quick line change
2	
3	
4	

ProMax - QC the above channels

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

General / Line Comments
SOL SP 975 full volume shot 6600 in3
Dropped shot 976 after RTNU reboot, file 2 is SP 977
Bird 07 no depth indicator wing set to -5 fixed angled.
EOL SP 1350, Syntrak not receiving headers, restarting as MGL1115002B

Abbreviations	
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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

<b>Vessel</b>	<b>Marcus G. Langseth</b>
<b>Client</b>	<b>Jame Gaherty</b>
<b>Area</b>	<b>Line Islands</b>
<b>Job Number</b>	<b>MGL1115</b>

<b>Chief Science Officer</b>			
<b>Science Officer</b>			
<b>Acquisition Leader</b>			
<b>Navigation Leader</b>			

	SOL	EOL		
<b>Tape #</b>	<b>003</b>	<b>008</b>	<b>FGSP</b>	<b>1351</b>
<b>SP #</b>	<b>1351</b>	<b>2008</b>	<b>LGSP</b>	<b>2008</b>

Line	MGL1115002B
Sequence	006
Direction	259

Streamer Parameters				
	1	2	3	4
Length (m)	6000			
Auxiliaries				
Shotpoint Interval: (m)	600m			
Offset CS - CNG (m)	167.10m			
Group Interval: (m)	12.5			
Number of channels	468			
Streamer Depth (m)	9m			
SOL Cable Noise, $\mu$ B				
EOL Cable Noise, $\mu$ B				

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

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

Description	SOL/FQCSP	EOL/LQCSP
Date MM/DD/YY	12/10/11	12/12/11
Time UTC	2311	0229
Volume (cu in.)	6600in3	6560in3
Wind (kts)	0	E 5-7
Sea State (m)	1m	1m
Water Depth (m)	5216m	5141m

Cable	EOL High Noise Channels (in u-bar)
1	
2	
3	
4	

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

[illegible]

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

[illegible]

# Observers Log

<b>Vessel</b>	<b>Marcus G. Langseth</b>
<b>Client</b>	<b>Jame Gaherty</b>
<b>Area</b>	<b>Line Islands</b>
<b>Job Number</b>	<b>MGL1115</b>

Chief Science Officer			
Science Officer			
Acquisition Leader			
Navigation Leader			

	SOL	EOL		
<b>Tape #</b>	<b>009</b>	<b>009</b>	<b>FGSP</b>	<b>976</b>
<b>SP #</b>	<b>976</b>	<b>1267</b>	<b>LGSP</b>	<b>1267</b>

Line	MGL1115003
Sequence	007
Direction	78

Streamer Parameters				
	1	2	3	4
Length (m)	6000			
Auxiliaries				
Shotpoint Interval: (m)	600			
Offset CS - CNG (m)	167.10			
Group Interval: (m)	12.5			
Number of channels	468			
Streamer Depth (m)	9m			
SOL Cable Noise, $\mu$ B				
EOL Cable Noise, $\mu$ B				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	6m
Source Separation	n/a
COS to COS	

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

Description	SOL/FQCSP	EOL/LQCSP
Date MM/DD/YY	12/13/11	12/14/11
Time UTC	0454	0248
Volume (cu in.)	6600in3	6600in3
Wind (kts)	NE 27	NE 20
Sea State (m)	2m	2m
Water Depth (m)	5208m	5192m

Cable	EOL High Noise Channels (in u-bar)
1	
2	
3	
4	

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

[illegible]

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

[illegible]



Observers Log	
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<b>Vessel</b>	<b>Marcus G. Langseth</b>
<b>Client</b>	<b>Jame Gaherty</b>
<b>Area</b>	<b>Line Islands</b>
<b>Job Number</b>	<b>MGL1115</b>

<b>Chief Science Officer</b>			
<b>Science Officer</b>			
<b>Acquisition Leader</b>			
<b>Navigation Leader</b>			

	SOL	EOL		
<b>Tape #</b>	<b>010</b>	<b>010</b>	<b>FGSP</b>	<b>1260</b>
<b>SP #</b>	<b>1260</b>	<b>1374</b>	<b>LGSP</b>	<b>1374</b>

<b>Line</b>	<b>MGL1115003A</b>
<b>Sequence</b>	<b>008</b>
<b>Direction</b>	<b>78</b>

Streamer Parameters				
	1	2	3	4
Length (m)	6000			
Auxiliaries				
Shotpoint Interval: (m)	600			
Offset CS - CNG (m)	167.10			
Group Interval: (m)	12.5			
Number of channels	468			
Streamer Depth (m)	9m			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	6m
Source Separation	n/a
COS to COS	

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

Description	SOL/FQCSP	EOL/LQCSP
Date MM/DD/YY	12/14/2011	12/14/11
Time UTC	0537	1353
Volume (cu in.)	6600in3	6600in3
Wind (kts)	E21	NE12
Sea State (m)	2-3m	2-3m
Water Depth (m)	5186.9m	4921.7m

Cable	EOL High Noise Channels (in u-bar)
1	
2	
3	
4	

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

[illegible]

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

<b>Vessel</b>	<b>Marcus G. Langseth</b>
<b>Client</b>	<b>Jame Gaherty</b>
<b>Area</b>	<b>Line Islands</b>
<b>Job Number</b>	<b>MGL1115</b>

<b>Chief Science Officer</b>			
<b>Science Officer</b>			
<b>Acquisition Leader</b>			
<b>Navigation Leader</b>			

	SOL	EOL		
<b>Tape #</b>	<b>011</b>	<b>011</b>	<b>FGSP</b>	<b>1003</b>
<b>SP #</b>	<b>1003</b>	<b>1176</b>	<b>LGSP</b>	<b>1172</b>

<b>Line</b>	<b>MGL1115_004</b>
<b>Sequence</b>	<b>009</b>
<b>Direction</b>	<b>ARC</b>

Streamer Parameters				
	1	2	3	4
Length (m)	6000			
Auxiliaries				
Shotpoint Interval: (m)	600			
Offset CS - CNG (m)	167.1			
Group Interval: (m)	12.5			
Number of channels	468			
Streamer Depth (m)	9m			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	6m
Source Separation	n/a
COS to COS	

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

Description	SOL/FQCSP	EOL/LQCSP
Date MM/DD/YY	12/14/11	12/15/11
Time UTC	1404	0237
Volume (cu in.)	6600in3	40in3
Wind (kts)	SSE6.5	E 21
Sea State (m)	2-3m	2m
Water Depth (m)	5015m	5150m

Cable	EOL High Noise Channels (in u-bar)
1	
2	
3	
4	

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

[illegible]

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

<b>Chief Science Officer</b>	<b>Robert Steinhaus</b>		
<b>Science Officer</b>	<b>Dave Martinson</b>		
<b>Acquisition Leader</b>	<b>Bern McKiernan</b>		
<b>Navigation Leader</b>	<b>Mike Martello</b>		

<b>Line</b>	<b>MGL1115_004A</b>
<b>Sequence</b>	<b>010</b>
<b>Direction</b>	<b>ARC</b>

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	6m
Source Separation	n/a
COS to COS	

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

Cable	EOL High Noise Channels (in u-bar)
1	
2	
3	
4	

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

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	
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<b>Chief Science Officer</b>	<b>Robert Steinhaus</b>		
<b>Science Officer</b>	<b>David Martinson</b>		
<b>Acquisition Leader</b>	<b>Bern McKiernan</b>		
<b>Navigation Leader</b>	<b>Mike Martello</b>		

Line	MGL1115_005
Sequence	011
Direction	272

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	6m
Source Separation	n/a
COS to COS	

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

Cable	EOL High Noise Channels (in u-bar)
1	
2	
3	
4	

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

Abbreviations	
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NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

[illegible]

# Observers Log

<b>Vessel</b>	<b>Marcus G. Langseth</b>
<b>Client</b>	<b>James Gaherty</b>
<b>Area</b>	<b>Line Islands</b>
<b>Job Number</b>	<b>MGL1115</b>

<b>Chief Science Officer</b>	<b>Robert Steinhaus</b>		
<b>Science Officer</b>	<b>David Martinson</b>		
<b>Acquisition Leader</b>	<b>Bern McKiernan</b>		
<b>Navigation Leader</b>	<b>Mike Martello</b>		

	SOL	EOL		
<b>Tape #</b>	<b>014</b>	<b>014</b>	<b>FGSP</b>	<b>1003</b>
<b>SP #</b>	<b>1003</b>	<b>1351</b>	<b>LGSP</b>	<b>1351</b>

<b>Line</b>	<b>MGL1115_006</b>
<b>Sequence</b>	<b>012</b>
<b>Direction</b>	<b>168</b>

Streamer Parameters				
	1	2	3	4
Length (m)	6000			
Auxiliaries				
Shotpoint Interval: (m)	600			
Offset CS - CNG (m)	167.1			
Group Interval: (m)	12.5			
Number of channels	468			
Streamer Depth (m)	9m			
SOL Cable Noise, $\mu$ B				
EOL Cable Noise, $\mu$ B				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	6m
Source Separation	n/a
COS to COS	

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

Description	SOL/FQCSP	EOL/LQCSP
Date MM/DD/YY	12/16/11	12/17/11
Time UTC	0627	0727
Volume (cu in.)	6600in3	6600in3
Wind (kts)	ne 7-12	SE 15
Sea State (m)	1-2m	2m
Water Depth (m)	5291.6m	5050m

Cable	EOL High Noise Channels (in u-bar)
1	
2	
3	
4	

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

[illegible]

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

[illegible]



Observers Log	Source only
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<b>Vessel</b>	<b>Marcus G. Langseth</b>
<b>Client</b>	<b>James Gaherty</b>
<b>Area</b>	<b>Line Islands</b>
<b>Job Number</b>	<b>MGL1115</b>

<b>Chief Science Officer</b>	<b>Robert Steinhaus</b>		
<b>Science Officer</b>	<b>David Martinson</b>		
<b>Acquisition Leader</b>	<b>Ryan Eaton 12:00-24:00</b>	<b>Bern McKiernan 00:00-12:00</b>	
<b>Navigation Leader</b>	<b>David Martinson 12:00-24:00</b>	<b>Mike Martello 00:00-12:00</b>	

	SOL	EOL		
<b>Tape #</b>	<b>NA</b>	<b>NA</b>	<b>FGSP</b>	<b>1355</b>
<b>SP #</b>	<b>1355</b>	<b>1230</b>	<b>LGSP</b>	<b>1230</b>

Line	MGL1115OBS07
Sequence	013
Direction	348

Streamer Parameters				
	1	2	3	4
Length (m)	N/A	N/A	N/A	N/A
Auxiliaries	N/A			
Shotpoint Interval: (m)	600			
Offset CS - CNG (m)	N/A			
Group Interval: (m)	N/A			
Number of channels	N/A			
Streamer Depth (m)	N/A			
SOL Cable Noise, $\mu$ B	N/A			
EOL Cable Noise, $\mu$ B	N/A			

Source Parameters	
Total Volume	6600/in3
Work Pressure	1950psi +/- 100psi
Dual Source	no
Depth	9m
Source Separation	8m
COS to COS	

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

Description	SOL/FQCSP	EOL/LQCSP
Date MM/DD/YY	12/17/11	12/18/11
Time UTC	1632	0130
Volume (cu in.)	6600in3	6600in3
Wind (kts)	ENE 10	E 8
Sea State (m)	1 - 2 m	1-2m
Water Depth (m)	5070.5m	5192m

Cable	EOL High Noise Channels (in u-bar)
1	N/A
2	N/A
3	N/A
4	N/A

## ProMax - QC the above channels

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

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
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NDR - No Data Recorded	ITB - Internal Time Break
N.T.B.P. - Not To Be Processed	

[illegible]