

Observers Log

Vessel	Marcus G. Langseth
Client	NSF - Abers/Becel
Area	AACSE Kodiak Alaska
Job Number	MGL1903

Shift	12:00-24:00	00:00-12:00	06:00-18:00
Science Officer			David Martinson
Acquisition Leader			
Navigation Leader	Alan Thompson	Chris Abdouch	

	SOL	EOL
Tape #	1	1
SP #	990	1393

Line	MGL1903MC01
Sequence	01
Direction	155

Streamer Parameters				
	1	2	3	4
Length (m)	4050			
Auxiliaries	n/a			
Shotpoint Interval: (m)	400			
Offset CS - CNG (m)	191.7			
Group Interval: (m)	12.5			
Number of channels	324			
Streamer Depth (m)	12.0			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	No
Depth	12
Sub-array Separation	6 m
COS to COS	Single Source

Recording Parameters	
Record Length	25
Total recording delay	0ms
Sample Rate	2ms
Polarity	SEGD standard
Low-Cut	3Hz digital, 4.5Hz total
Hi-Cut	200Hz, 370dB/octave
File Format	SEGD

Description	SOL/FGSP	EOL/LGSP
SP	990	1393
Date MM/DD/YY	06/08/19	6/9/19
Time UTC	20:21	15:01
Volume (cu in.)	6600in3	6600in3
Wind (kts)	13kts	17kts
Sea State (m)	0.5m	1.5m
Water Depth (m)	81m	5248m

Cable	Dead Channels
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

General / Line Comments
Bird data not being recorded at SOL due to long shot spacing, issue solved SP 1018
RTCN trigger malfunction caused multiple shots to be recorded in file 307, 308, 309
DEAD CHANNELS: 1, 81
SOL NOISY CHANNELS:
EOL NOISY CHANNELS

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

Observers Log

Vessel	Marcus G. Langseth
Client	NSF - Abers/Becel
Area	AACSE Kodiak Alaska
Job Number	MGL1903

Shift	12:00-24:00	00:00-12:00	06:00-18:00
Science Officer			David Martinson
Acquisition Leader			
Navigation Leader	Alan Thompson	Chris Abdouch	

	SOL	EOL
Tape #	2	2
SP #	2004	2251

Line	MGL1903MT01
Sequence	02
Direction	205

Streamer Parameters				
	1	2	3	4
Length (m)	4050			
Auxiliaries	n/a			
Shotpoint Interval: (m)	400			
Offset CS - CNG (m)	191.7			
Group Interval: (m)	12.5			
Number of channels	324			
Streamer Depth (m)	12.0			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	No
Depth	12
Sub-array Separation	6 m
COS to COS	Single Source

Recording Parameters	
Record Length	25
Total recording delay	0ms
Sample Rate	2ms
Polarity	SEGD standard
Low-Cut	3Hz digital, 4.5Hz total
Hi-Cut	200Hz, 370dB/octave
File Format	SEGD

Description	SOL/FGSP	EOL/LGSP
SP	2004	2251
Date MM/DD/YY	6/9/19	6/10/19
Time UTC	15:08	02:13
Volume (cu in.)	6600in3	6600in3
Wind (kts)	18kts	NE 23kts
Sea State (m)	1.5m	1.5m
Water Depth (m)	5248m	

Cable	Dead Channels
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

General / Line Comments
Streamer in turn at SOL and EOL.
DEAD CHANNELS: 1, 81, 279
SOL NOISY CHANNELS:
EOL NOISY CHANNELS

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

Observers Log

Vessel	Marcus G. Langseth
Client	NSF - Abers/Becel
Area	AACSE Kodiak Alaska
Job Number	MGL1903

Shift	12:00-24:00	00:00-12:00	06:00-18:00
Science Officer			David Martinson
Acquisition Leader			
Navigation Leader	Alan Thompson	Chris Abdouch	

	SOL	EOL
Tape #	5	5
SP #	5004	5491

Line	MGL1903MC03
Sequence	05
Direction	177

Streamer Parameters				
	1	2	3	4
Length (m)	4050			
Auxiliaries	n/a			
Shotpoint Interval: (m)	400			
Offset CS - CNG (m)	191.7			
Group Interval: (m)	12.5			
Number of channels	324			
Streamer Depth (m)	12.0			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	No
Depth	12
Sub-array Separation	6 m
COS to COS	Single Source

Recording Parameters	
Record Length	25
Total recording delay	0ms
Sample Rate	2ms
Polarity	SEGD standard
Low-Cut	3Hz digital, 4.5Hz total
Hi-Cut	200Hz, 370dB/octave
File Format	SEGD

Description	SOL/FGSP	EOL/LGSP
SP	5004	5491
Date MM/DD/YY	06/11/19	6/11/19
Time UTC	02:56	22:48
Volume (cu in.)	6600in3	6600in3
Wind (kts)	NE 28.9kts	NE 12.5kts
Sea State (m)	1.5m	1.5m
Water Depth (m)	126.2m	3109.7m

Cable	Dead Channels
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

General / Line Comments
DEAD CHANNELS: 1, 81, 279
SOL NOISY CHANNELS:
EOL NOISY CHANNELS

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

Observers Log

Vessel	Marcus G. Langseth
Client	NSF - Abers/Becel
Area	AACSE Kodiak Alaska
Job Number	MGL1903

Shift	12:00-24:00	00:00-12:00	06:00-18:00
Science Officer			David Martinson
Acquisition Leader			
Navigation Leader	Alan Thompson	Chris Abdouch	

	SOL	EOL
Tape #	9	9
SP #	9009	9477

Line	MGL1903MC05
Sequence	09
Direction	153

Streamer Parameters				
	1	2	3	4
Length (m)	4050			
Auxiliaries	n/a			
Shotpoint Interval: (m)	400			
Offset CS - CNG (m)	191.7			
Group Interval: (m)	12.5			
Number of channels	324			
Streamer Depth (m)	12.0			
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	No
Depth	12
Sub-array Separation	6 m
COS to COS	Single Source

Recording Parameters	
Record Length	25
Total recording delay	0ms
Sample Rate	2ms
Polarity	SEGD standard
Low-Cut	3Hz digital, 4.5Hz total
Hi-Cut	200Hz, 370dB/octave
File Format	SEGD

Description	SOL/FGSP	EOL/LGSP
SP	9009	9477
Date MM/DD/YY	6/13/2019	6/13/2019
Time UTC	00:32	20:08
Volume (cu in.)	6600in3	6600in3
Wind (kts)	SE 6.5kts	SE 16.6kts
Sea State (m)	0.5m	0.5m
Water Depth (m)	87.6m	4358.2m

Cable	Dead Channels
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

General / Line Comments
DEAD CHANNELS: 1, 81, 279
SOL NOISY CHANNELS:
EOL NOISY CHANNELS

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

Observers Log

Vessel	Marcus G. Langseth
Client	NSF - Abers/Becel
Area	AACSE Kodiak Alaska
Job Number	MGL1903

Shift	12:00-24:00	00:00-12:00	06:00-18:00
Science Officer			David Martinson
Acquisition Leader			
Navigation Leader	Alan Thompson	Chris Abdouch	

	SOL	EOL
Tape #	12	12
SP #	12007	12083

Line	MGL1903MT06
Sequence	012
Direction	242

Streamer Parameters				
	1	2	3	4
Length (m)	4050			
Auxiliaries	n/a			
Shotpoint Interval: (m)	400			
Offset CS - CNG (m)	191.7			
Group Interval: (m)	12.5			
Number of channels	324			
Streamer Depth (m)	12.0			
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	No
Depth	12
Sub-array Separation	6 m
COS to COS	Single Source

Recording Parameters	
Record Length	25
Total recording delay	0ms
Sample Rate	2ms
Polarity	SEGD standard
Low-Cut	3Hz digital, 4.5Hz total
Hi-Cut	200Hz, 370dB/octave
File Format	SEGD

Description	SOL/FGSP	EOL/LGSP
SP	12007	12083
Date MM/DD/YY	06/15/19	6/15/19
Time UTC	01:25	04:42
Volume (cu in.)	6600in3	6600in3
Wind (kts)	20.5kts	SE 18.0kts
Sea State (m)	2m	2.m
Water Depth (m)	244.1m	281.7m

Cable	Dead Channels
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

General / Line Comments
DEAD CHANNELS: 1, 81, 279
SOL NOISY CHANNELS:
EOL NOISY CHANNELS

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

Observers Log

Vessel	Marcus G. Langseth
Client	NSF - Abers/Becel
Area	AACSE Kodiak Alaska
Job Number	MGL1903

Shift	12:00-24:00	00:00-12:00	06:00-18:00
Science Officer			David Martinson
Acquisition Leader			
Navigation Leader	Alan Thompson	Chris Abdouch	

	SOL	EOL
Tape #	NA	NA
SP #	13998	14084

Line	MGL1903OT07
Sequence	014
Direction	244

Streamer Parameters				
	1	2	3	4
Length (m)	N/A			
Auxiliaries	N/A			
Shotpoint Interval: (m)	400			
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	12
Sub-array Separation	6 m
COS to COS	Single Source

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
File Format	N/A

Description	SOL/FGSP	EOL/LGSP
SP	13998	14084
Date MM/DD/YY	06/16/2019	6/16/2019
Time UTC	17:07	20:37
Volume (cu in.)	6600 in3	6600in3
Wind (kts)	15.5kts	NE 12.7kts
Sea State (m)	2m	1m
Water Depth (m)	4576.4m	4724.3m

Cable	Dead Channels
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

General / Line Comments
First shot not in obsip file

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

Time UTC	SP	Description
17:07	13998	SOL MGL1903OT07 S1-4G5 spared - Volume 6600 in3 - 36 guns
20:37	14084	EOL MGL1903OT07 S1-4G5 spared - Volume 6600 in3 - 36 guns

Observers Log

Vessel	Marcus G. Langseth
Client	NSF - Abers/Becel
Area	AACSE Kodiak Alaska
Job Number	MGL1903

	SOL	EOL
Tape #	NA	NA
SP #	15005	15685

Streamer Parameters				
	1	2	3	4
Length (m)	N/A			
Auxiliaries	N/A			
Shotpoint Interval: (m)	400			
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			

Description	SOL/FGSP	EOL/LGSP
SP	15005	15685
Date MM/DD/YY	06/16/19	6/18/2019
Time UTC	20:45	00:27
Volume (cu in.)	6600 in3	6600in3
Wind (kts)	NE 13.1kts	NW 10kts
Sea State (m)	1.0m	1.0m
Water Depth (m)	4729.9m	197.9m

Cable	Dead Channels
1	
2	
3	
4	

General / Line Comments
First shot not in obsip file

Shift	12:00-24:00	00:00-12:00	06:00-18:00
Science Officer			David Martinson
Acquisition Leader			
Navigation Leader	Alan Thompson	Chris Abdouch	

Line	MGL1903OB08
Sequence	015
Direction	333

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	No
Depth	12
Sub-array Separation	6 m
COS to COS	Single Source

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
File Format	N/A

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	

Time UTC	SP	Description
20:45	15005	SOL MGL1903OB08 S1-4G5 spared - Volume 6600 in3 - 36 guns
00:01	15087	First shot of the day 17 June 2019
07:22	15272	Last shot before shutdown
07:24	none	Shutdown for marine mammal sighting
07:45	15282	Begin ramp up
08:05	15290	Ramp up complete
08:06	15291	first good shot at full volume - 6600 in3
18:19	15530	Autofires started, guns 9 and 10 string 2
18:27	15533	Spare out string 2 and begin recovery, firing 4950 cubic inches 27 guns
19:18		string 2 on board
21:59	15623	string 2 fully deployed, first shot 36 guns 6600 cubic inches
00:00	15674	First shot of the day 18 June 2019
00:27	15685	EOL MGL1903OB08 S1-4G5 spared - Volume 6600 in3 - 36 guns

Observers Log

Vessel	Marcus G. Langseth
Client	NSF - Abers/Becel
Area	AACSE Kodiak Alaska
Job Number	MGL1903

	SOL	EOL
Tape #	NA	NA
SP #	16010	16175

Streamer Parameters				
	1	2	3	4
Length (m)	N/A			
Auxiliaries	N/A			
Shotpoint Interval: (m)	400			
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			

Description	SOL/FGSP	EOL/LGSP
SP	16010	16175
Date MM/DD/YY	06/18/2019	6/18/2019
Time UTC	01:05	07:48
Volume (cu in.)	6600 in3	6600in3
Wind (kts)	W 7.0kts	NW 14.4kts
Sea State (m)	1.0m	0.5m
Water Depth (m)	163.3m	226.9m

Cable	Dead Channels
1	
2	
3	
4	

General / Line Comments
First shot not in obsip file

Shift	12:00-24:00	00:00-12:00	06:00-18:00
Science Officer			David Martinson
Acquisition Leader			
Navigation Leader	Alan Thompson	Chris Abdouch	

Line	MGL1903OT08
Sequence	016
Direction	181

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	No
Depth	12
Sub-array Separation	6 m
COS to COS	Single Source

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
File Format	N/A

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	

Time UTC	SP	Description
01:05	16010	SOL MGL1903OT08 S1-4G5 spared - Volume 6600 in3 - 36 guns
07:48	16175	EOL MGL1903OT08 S1-4G5 spared - Volume 6600 in3 - 36 guns

Observers Log

Vessel	Marcus G. Langseth
Client	NSF - Abers/Becel
Area	AACSE Kodiak Alaska
Job Number	MGL1903

Shift	12:00-24:00	00:00-12:00	06:00-18:00
Science Officer			David Martinson
Acquisition Leader			
Navigation Leader	Alan Thompson	Chris Abdouch	

	SOL	EOL
Tape #	NA	NA
SP #	17154	17685

Line	MGL1903OB09
Sequence	017
Direction	151

Streamer Parameters				
	1	2	3	4
Length (m)	N/A			
Auxiliaries	N/A			
Shotpoint Interval: (m)	400			
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	12
Sub-array Separation	6 m
COS to COS	Single Source

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
File Format	N/A

Description	SOL/FGSP	EOL/LGSP
SP	17154	17685
Date MM/DD/YY	06/18/2019	6/19/2019
Time UTC	07:51	05:40
Volume (cu in.)	6600 in3	6600in3
Wind (kts)	NW 14.4kts	W 17.6kts
Sea State (m)	0.5m	1m
Water Depth (m)	226.9m	4650.4m

Cable	Dead Channels
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

General / Line Comments
First shot not in obsip file

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

Time UTC	SP	Description
07:51	17154	SOL MGL1903OB09 S1-4G5 spared - Volume 6600 in3 - 36 guns
00:00	17545	First shot of the day 19 June 2019
05:40	17685	EOL MGL1903OB09 S1-4G5 spared - Volume 6600 in3 - 36 guns

Observers Log

Vessel	Marcus G. Langseth
Client	NSF - Abers/Becel
Area	AACSE Kodiak Alaska
Job Number	MGL1903

Shift	12:00-24:00	00:00-12:00	06:00-18:00
Science Officer			David Martinson
Acquisition Leader			
Navigation Leader	Alan Thompson	Chris Abdouch	

	SOL	EOL
Tape #	NA	NA
SP #	18003	18084

Line	MGL1903OT09
Sequence	018
Direction	242

Streamer Parameters				
	1	2	3	4
Length (m)	N/A			
Auxiliaries	N/A			
Shotpoint Interval: (m)	400			
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	12
Sub-array Separation	6 m
COS to COS	Single Source

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
File Format	N/A

Description	SOL/FGSP	EOL/LGSP
SP	18003	18084
Date MM/DD/YY	06/19/2019	06/19/2019
Time UTC	05:44	09:05
Volume (cu in.)	6600 in3	6600in3
Wind (kts)	W 17.6kts	W 18kts
Sea State (m)	1m	1m
Water Depth (m)	4651.6m	4607.8m

Cable	Dead Channels
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

General / Line Comments
First shot not in obsip file

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

Time UTC	SP	Description
05:44	18003	SOL MGL1903OT09 S1-4G5 spared - Volume 6600 in3 - 36 guns
09:05	18084	EOL MGL1903OT09 S1-4G5 spared - Volume 6600 in3 - 36 guns

Observers Log

Vessel	Marcus G. Langseth
Client	NSF - Abers/Becel
Area	AACSE Kodiak Alaska
Job Number	MGL1903

Shift	12:00-24:00	00:00-12:00	06:00-18:00
Science Officer			David Martinson
Acquisition Leader			
Navigation Leader	Alan Thompson	Chris Abdouch	

	SOL	EOL
Tape #	NA	NA
SP #	19004	19686

Line	MGL1903OB10
Sequence	019
Direction	332

Streamer Parameters				
	1	2	3	4
Length (m)	N/A			
Auxiliaries	N/A			
Shotpoint Interval: (m)	400			
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	12
Sub-array Separation	6 m
COS to COS	Single Source

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
File Format	N/A

Description	SOL/FGSP	EOL/LGSP
SP	19004	19686
Date MM/DD/YY	06/19/2019	06/20/2019
Time UTC	09:09	13:35
Volume (cu in.)	6600 in3	6600in3
Wind (kts)	W 18kts	E 12kts
Sea State (m)	1m	0m
Water Depth (m)	4620.6m	120m

Cable	Dead Channels
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

General / Line Comments
First shot not in obsip file

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

Time UTC	SP	Description
09:09	19004	SOL MGL1903OB10 S1-4G5 spared - Volume 6600 in3 - 36 guns
00:00	19369	Midnight 20June19, First shot of the day
04:12	19462	Last good shot before whale shutdown
04:14		Whale sighting in exclusion zone, source shut down
04:53		Begin soft start
05:13		soft start complete
05:14	19481	First good shot
13:35	19686	EOL MGL1903OB10 S1-4G5 spared - Volume 6600 in3 - 36 guns

Observers Log

Vessel	Marcus G. Langseth
Client	NSF - Abers/Becel
Area	AACSE Kodiak Alaska
Job Number	MGL1903

Shift	12:00-24:00	00:00-12:00	06:00-18:00
Science Officer			David Martinson
Acquisition Leader			
Navigation Leader	Alan Thompson	Chris Abdouch	

	SOL	EOL
Tape #	NA	NA
SP #	20004	20103

Line	MGL1903OT10
Sequence	020
Direction	188

Streamer Parameters				
	1	2	3	4
Length (m)	N/A			
Auxiliaries	N/A			
Shotpoint Interval: (m)	400			
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	12
Sub-array Separation	6 m
COS to COS	Single Source

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
File Format	N/A

Description	SOL/FGSP	EOL/LGSP
SP	20004	20103
Date MM/DD/YY	06/20/2019	06/20/2019
Time UTC	13:40	17:32
Volume (cu in.)	6600 in3	6600in3
Wind (kts)	E 12kts	NE 14kts
Sea State (m)	0m	0m
Water Depth (m)	115.6m	97.5m

Cable	Dead Channels
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

General / Line Comments
First shot not in obsip file

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

Time UTC	SP	Description
13:40	20004	SOL MGL1903OT10 S1-4G5 spared - Volume 6600 in3 - 36 guns
17:32	20103	EOL MGL1903OT10 S1-4G5 spared - Volume 6600 in3 - 36 guns

Observers Log

Vessel	Marcus G. Langseth
Client	NSF - Abers/Becel
Area	AACSE Kodiak Alaska
Job Number	MGL1903

Shift	12:00-24:00	00:00-12:00	06:00-18:00
Science Officer			David Martinson
Acquisition Leader			
Navigation Leader	Alan Thompson	Chris Abdouch	

	SOL	EOL
Tape #	NA	NA
SP #	21002	21649

Line	MGL1903OB11
Sequence	021
Direction	144

Streamer Parameters				
	1	2	3	4
Length (m)	N/A			
Auxiliaries	N/A			
Shotpoint Interval: (m)	400			
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	12
Sub-array Separation	6 m
COS to COS	Single Source

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
File Format	N/A

Description	SOL/FGSP	EOL/LGSP
SP	21002	21649
Date MM/DD/YY	06/20/2019	06/21/2019
Time UTC	17:34	22:35
Volume (cu in.)	6600 in3	6600in3
Wind (kts)	NE 14.2kts	NW 21.9kts
Sea State (m)	0m	2m
Water Depth (m)	98.3m	4088.4m

Cable	Dead Channels
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

General / Line Comments
First shot not in obsip file

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

Time UTC	SP	Description
17:34	21002	SOL MGL1903OB11 S1-4G5 spared - Volume 6600 in3 - 36 guns
00:00	21152	First shot of the day 6/21/2019
06:54	21315	Last good shot, shutdown for marine mammal sighting
07:10		Begin soft start
07:30		Soft start complete
07:32	21331	First good shot
08:07	21345	Last good shot, shutdown for PAM entanglement
14:42		Begin soft start
15:02		Soft start complete, Gun 1-8 failed d/t air leak
15:06	21472	First good shot
22:36	21649	EOL MGL1903OB11 S1-4G5&S1G8 spared - Volume 6540 in3 - 35 guns

Observers Log

Vessel	Marcus G. Langseth
Client	NSF - Abers/Becel
Area	AACSE Kodiak Alaska
Job Number	MGL1903

Shift	12:00-24:00	00:00-12:00	06:00-18:00
Science Officer			David Martinson
Acquisition Leader			
Navigation Leader	Alan Thompson	Chris Abdouch	

	SOL	EOL
Tape #	NA	NA
SP #	22008	22084

Line	MGL1903OT11
Sequence	022
Direction	242

Streamer Parameters				
	1	2	3	4
Length (m)	N/A			
Auxiliaries	N/A			
Shotpoint Interval: (m)	400			
Offset CS - CNG (m)	N/A			
Group Interval: (m)	N/A			
Number of channels	N/A			
Streamer Depth (m)	N/A			
SOL Cable Noise, μ B	N/A			
EOL Cable Noise, μ B	N/A			

Source Parameters	
Total Volume	6600 in3
Work Pressure	1950psi +/- 100psi
Dual Source	No
Depth	12
Sub-array Separation	6 m
COS to COS	Single Source

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
File Format	N/A

Description	SOL/FGSP	EOL/LGSP
SP	22009	22084
Date MM/DD/YY	06/21/19	06/22/19
Time UTC	22:53	02:04
Volume (cu in.)	6540in3	6540in3
Wind (kts)	NW 24.2kts	NW 12.4kts
Sea State (m)	2m	1.5m
Water Depth (m)	4004.1m	4720.9m

Cable	Dead Channels
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

General / Line Comments
First shot not in obsip file

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

Time UTC	SP	Description
23:16	22008	SOL MGL1903OT11 S1-4G5&S1G8 spared - Volume 6540 in3 - 35 guns
00:02	22035	22 June 2019, First shot of the day
02:04	22084	EOL MGL1903OT11 S1-4G5&S1G8 spared - Volume 6540 in3 - 35 guns

Observers Log

Vessel	Marcus G. Langseth
Client	NSF - Abers/Becel
Area	AACSE Kodiak Alaska
Job Number	MGL1903

Shift	12:00-24:00	00:00-12:00	06:00-18:00
Science Officer			David Martinson
Acquisition Leader			
Navigation Leader	Alan Thompson	Chris Abdouch	

	SOL	EOL
Tape #	NA	NA
SP #	23004	23641

Line	MGL1903OB12
Sequence	023
Direction	332

Streamer Parameters				
	1	2	3	4
Length (m)	N/A			
Auxiliaries	N/A			
Shotpoint Interval: (m)	400			
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	12
Sub-array Separation	6 m
COS to COS	Single Source

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
File Format	N/A

Description	SOL/FGSP	EOL/LGSP
SP	23004	23641
Date MM/DD/YY	06/22/19	6/23/19
Time UTC	02:10	03:41
Volume (cu in.)	6540in3	6540in3
Wind (kts)	NW 12.4kts	W 11.1kts
Sea State (m)	1.5m	0.5m
Water Depth (m)	4715.8m	125.7m

Cable	Dead Channels
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

General / Line Comments
First shot not in obsip file

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

Time UTC	SP	Description
02:10	23004	SOL MGL1903OB12 S1-4G5&S1G8 spared - Volume 6540 in3 - 35 guns
00:02	23547	First shot of the day 23 June 2019
01:36	23586	LGSP before shutdown
01:36		Source shutdown d/t marine mammal sighting
01:51		Begin ramp up
01:53		Ramp up cancelled, another sighting of marine mammal
02:08		Begin ramp up
02:28		Ramp up complete, 6540cubic inches, 35 guns
02:29	23607	First good shot point
03:51	23641	LGSP before shutdown
03:53		Source shutdown d/t marine mammal sighting
04:26	23655	EOL MGL1903OB12 S1-4G5&S1G8 spared - Volume 6540 in3 - 35 guns
		Line terminated still shutdown for marine mammals, no sources fired since 23641