

Observers Log

Vessel	Langseth
Client	Mutter – LDEO
Area	East Pacific Rise
Job Number	MSL0812

Party Chief	R Steinhau
Ch. Observer	R Steinhau
Sen. Observer	
Observers	Bern McKernan

	SOL	EOL		
Tape #	0001	0007	FGSP	906
SP #	665	2445	LGSP	2444

Line	AXIS1
Sequence	001
Direction	346.5

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG				
Group Interval:				
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300 cu in
Work Pressure	2000
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	8s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/QCS n	EOL/QCS n
FSID		
Date dd/mm/yy	07/04/08	04/07/08
Time UTC	04:40	14:00
Volume (cu in.)	S1-3350in3 S2-2940in3	S1-3170in3 S2-2940in3
Streamer Depth (m)	7.5	7.5
Wind (kts)	L&V	22.5kts
Sea State (m)	3.5	3.5
Water Depth (m)	2500 M	2640m

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments

04:49 FGSP 705 of line AXIS1
04:52 Disable line trouble shooting Digishot
disabled/no signal
05:01Syntrak missing shot points due to seisnet/syntrak interface
05:42 FGSP 906 after reboot of Syntrak and replacement of seisnet File #1 New reel 0003
05:56 SP 959 misfire S2G6
06:13 SP 1025 misfire S2G6 & S2G4
06:22 SP 1061 misfire S2G4
06:32 SP 1099 misfire S2G4
06:33 SP 1105 misfire S2G4
06:38 SP 1121 misfire S2G4
06:39 SP 1127 misfire S2G5
06:48 Sp 1161, 1163, 1165 Misfire S2G4
07:00 Sp 1207, 1209, 1211 Misfire S2G4
07:04 SP 1223,1225 S2G4 Misfire Disabled @SP1227 New Source #1 Volume 3170 in3
07:08 SP 1239 New reel 0003
07:45 SP 1387 dog leg to right increased from 346.5 degrees to 351.6 degrees
08:18 SP 1513 S2G6 Misfire
08:31 SP 1567 file # 654 last file for reel 003
08:32 SP 1568 file # 655 first file for reel 004
08:42 SP 1609 Lost compressor down to single gun S2G3
08:50 SP 1639 Compressor returned full volume both sources
08:13 SP 1732 Change directions, 351.6 degrees - 22.8 degrees
09:22 sp 1758, turn completed, new heading 22.8 degrees
09:39 sp 1820, change directions, 22.8 to 354.6 degrees
09:48 SP 1855 Turn complete new heading 354.6
09:51 SP 1867 Lost compressor guns off one mammal gun firing S2G3
09:55 SP 1881 Compressor recovered full volume
10:00 SP 1899 Reel change 0004 last file 981
10:01 SP 1900 reel 0005 first file 982
10:33 Streamer 3 birds 14, 15, 16 came close to surface 2.9 meters set depth to 8.5
10:39 increase ships speed to 4.7 SOG
10:56 Streamer 3 birds achieving depth
11:22 SP 2204 Heading change 354.6 degrees to 346.1
11:28 SP 2224 reel change to 0006 Last file 1308 on reel file
11:29 SP 2225 first file #1309 reel 0006
12:26 SP 2440 LGSP Due to Compressor Failure.
12:27 SP 2445 Air pressure low, went to one gun
12:31 SP 2461 Full power after air pressure returns.
12:37 Digishot locked up reboot CIU
12:56 SP 2554 Begin to have ramp up
13:02 SP 2576 Compressor failure again shooting S4G3
13:08 SP 2600 End of Reel 6 last file 1635
13:09 SP 2601 Start of Reel 7 first file 1636
13:10 end cycle of SYNTRAK recording
13:20 Chief Engineer states 30 minutes min for compressor
13:35 SP 2689 went to internal cycle of gun controls to 60 second interval to minimize air loss on gun
14:00 end Of Line
14:02 Cycled Digishot off no triggers.

Line Status:

Observers Log

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Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	Mike Tatro / Bern McKiernan

	SOL	EOL		
Tape #	0008		FGSP	3511
SP #	3820		LGSP	915

Line	AXIS3
Sequence	002
Direction	174.3

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300 cu in
Work Pressure	2000
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
Date dd/mm/yy	16/07/08	17/07/08
Time UTC	2322	0:00
Volume (cu in.)		
Streamer Depth (m)	7.5	7.5
Wind (kts)	15	15
Sea State (m)	3-6ft	3-6ft
Water Depth (m)	2553.47	2652

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments	
	between sp 3820 and 3751 had multiple errors due to gun controller
Line Status:	

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
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Job Number	MGL0812

Party Chief	R Steinhilber
Ch. Observer	R Steinhilber
Sen. Observer	
Observers	Bern McKiernan

	SOL	EOL		
Tape #	17	21	FGSP	1001
SP #	1001	2025	LGSP	2025

Line	axis2
Sequence	003
Direction	348.9

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	8s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	17/07/08	17/07/2008
Time UTC	14:42	20:26
Volume (cu in.)	S#1 3030 S#2 2720	s#1 3030
Streamer Depth (m)	7.5	7.5
Wind (kts)	15	15
Sea State (m)	2	2
Water Depth (m)	2652	2651

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments	
1442 SOL First file 59 REEL 17 FGSP 1001 S#1 Guns 6,12,14 disabled Guns 5&15 enabled total volume 3030	
SOL Source #2 Guns 1,2 &13 disabled Guns 5 &15 enabled Total Volume 2900	
SOL Position 8 50.07.49N 104 10.05.33W	
Line Status:	

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

[illegible]

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Ch. Observer	R Steinhilber
Sen. Observer	mike tatro
Observers	lance conrad,

	SOL	EOL		
Tape #	22		FGSP	921
SP #			LGSP	4471

Line	Axis2R1
Sequence	004
Direction	359.259

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	17/07/2008	18/072008
Time UTC	0353	22:21
Volume (cu in.)	s1740 p3080	s3210 p3080
Streamer Depth (m)	7.5	7.5
Wind (kts)	w20	sw25
Sea State (m)	6-8ft	6-8ft
Water Depth (m)	2650	2620.30

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
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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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Party Chief	R Steinhilber
Ch. Observer	R Steinhilber
Sen. Observer	
Observers	Bern McKiernan

	SOL	EOL		
Tape #	0029	30	FGSP	1028
SP #	1028	1610	LGSP	1610

Line	Transit1
Sequence	005
Direction	189

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	8s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	18/07/2008	18/07/2008
Time UTC	0052	3:39
Volume (cu in.)	s3210 p2940	s3210 p2940
Streamer Depth (m)	15 MTS	15 MTS
Wind (kts)	N15	N15
Sea State (m)	8-10ft	8-10ft
Water Depth (m)	2896.40	1753.91

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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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Vessel	Langseth
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Job Number	MGL0812

Party Chief	R Steinhilber
Ch. Observer	R Steinhilber
Sen. Observer	
Observers	Bern McKiernan

	SOL	EOL		
Tape #	31	0031	FGSP	1001
SP #	875	1539	LGSP	1539

Line	EPR3D2132P
Sequence	006
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	18/07/2008	18/07/2008
Time UTC	05:04	7:59
Volume (cu in.)	S1(3210) S2(2940)	S1(3210) S2(2940)
Streamer Depth (m)	10	10
Wind (kts)	17	17
Sea State (m)	2-3	2-3
Water Depth (m)	2832	2892

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	Bern McKiernan

	SOL	EOL		
Tape #	32	32	FGSP	1432
SP #	1539		LGSP	894

Line	EPR3D1940P
Sequence	007
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10 s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	18/07/2008	18/07/2008
Time UTC		
Volume (cu in.)	S1(3210) S2(2940)	S1(3210) S2(2940)
Streamer Depth (m)	10.0	10.0
Wind (kts)	20	20
Sea State (m)	2-3	2-3
Water Depth (m)	2852	2932

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
0926 raise birds to 10 Meters after turn
0930 SOL Position 09' 50' 07.850N 104' 32'.086W
1007 FGSP position 09' 49' 49'.302N 104'12' 42.527W
1310 LGSP 894, EOL pos: 09'48'17"809N, 104'23'38.355W
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	Bern McKiernan/Kori Newman

	SOL	EOL		
Tape #	33	33	FGSP	895
SP #	894	1539	LGSP	1539

Line	EPR3D2124P
Sequence	008
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	19/07/2008	19/07/2008
Time UTC	14:41	17:19
Volume (cu in.)	S1(3210) S2(2940)	S1(3210) S2(2940)
Streamer Depth (m)	10	10
Wind (kts)	13	15
Sea State (m)	2	5-7
Water Depth (m)	2676	2897

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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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Vessel	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinha
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	Mike Tatro

	SOL	EOL		
Tape #	34	34	FGSP	1537
SP #	1537	894	LGSP	952

Line	EPR3D1932P
Sequence	009
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	8s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	19/07/2008	19/07/08
Time UTC	18:48	22:17
Volume (cu in.)	3210	S1-3210 S2-3300
Streamer Depth (m)	10	10
Wind (kts)	WSW 15	WSW-15kts
Sea State (m)	5-7ft	5-7ft
Water Depth (m)	2864.01	2874.02

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
1537 SOL Intermittent swell noise seen on records
SP 951 S1 G16 Autofire till EOL
EOL LGSP 952 Last file643 POS 09 48.07'.874"n 104 23"36.953w Seas 5-8ft
Line Status:

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	Bern McKiernan

	SOL	EOL		
Tape #	35	35	FGSP	859
SP #	859	1539	LGSP	1539

Line	EPR3D2316P
Sequence	010
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	20/07/2008	20/07/2008
Time UTC	0205	5:22
Volume (cu in.)	s3300 p3300	s3300 p3300
Streamer Depth (m)	10	10
Wind (kts)	22.15	5.7
Sea State (m)	4-6ft	4-6ft
Water Depth (m)	2422	2839

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhilber
Ch. Observer	R Steinhilber
Sen. Observer	
Observers	Bern McKiernan

	SOL	EOL		
Tape #	36	36	FGSP	1432
SP #	1539	894	LGSP	894

Line	EPR3D2116P
Sequence	011
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	20/07/2008	20/07/2008
Time UTC	0644	9:40
Volume (cu in.)	S1 (3330) S2 (3330)	S1 (3330) S2 (3330)
Streamer Depth (m)	10	10
Wind (kts)	15	9.5
Sea State (m)	1 meter	1 meter
Water Depth (m)	2901	2769

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	Bern McKiernan

	SOL	EOL		
Tape #	37	37	FGSP	1001
SP #	894	1539	LGSP	1539

Line	EPR3D2308P
Sequence	012
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	20/07/08	20/07/08
Time UTC	11:10	14:31
Volume (cu in.)	S1(3300) S2(3300)	S1(3300) S2(3300)
Streamer Depth (m)	10	10
Wind (kts)	6	7
Sea State (m)	1	1
Water Depth (m)	2415	2788

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL pos 09'55' 42.739N 104'24'40.333W
FGSP 1001 pos 09'55'57.267N 104'22'30.58
EOL pos 09'57'28.510N 104'11'34.459
Line Status:

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	Bern McKiernan

	SOL	EOL		
Tape #	0038	0038	FGSP	1432
SP #	1539	894	LGSP	894

Line	EPR3RD2108P
Sequence	013
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	20/07/08	20/07/08
Time UTC	1558	18:43
Volume (cu in.)	S3300 P3300	S3300 P3300
Streamer Depth (m)	10	10
Wind (kts)	12	8
Sea State (ft)	2-5	2-5
Water Depth (m)	2901	2832

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhilber
Ch. Observer	R Steinhilber
Sen. Observer	
Observers	Bern McKiernan

	SOL	EOL		
Tape #	39	39	FGSP	896
SP #	894	1539	LGSP	1539

Line	EPR3D2300P
Sequence	014
Direction	82deg

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID	deg	deg
Date dd/mm/yy	20/07/2008	20/07/2008
Time UTC	2009	23:27
Volume (cu in.)	p3300 s3300	p3300 s3300
Streamer Depth (m)	10	10
Wind (kts)	10s	10s
Sea State (ft)	2-5	2-5
Water Depth (m)	2187	2826

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	40	40	FGSP	1539
SP #	1539	40	LGSP	894

Line	EPR3D2100P
Sequence	015
Direction	262DEG

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID	deg	
Date dd/mm/yy	20?07/2008	20/07/08
Time UTC	0058	3:32
Volume (cu in.)	P3300 S3300	P3300 S3300
Streamer Depth (m)	10	10
Wind (kts)	s10kts	12
Sea State (ft)	2-5	4-6
Water Depth (m)	2904.88	2857

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
String 1 has air leak source gun 9 misfired-turned off gun port volume 3080-STB 3300
port volume 3080-STB 3300
EOL pos 09'51.30.049N 104'24.05.675W
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhau
Ch. Observer	R Steinhau
Sen. Observer	
Observers	Bern McKiernan

	SOL	EOL		
Tape #	40	40	FGSP	1539
SP #	1539		LGSP	

Line	EPR3D2100P
Sequence	015
Direction	262DEG

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID	deg	
Date dd/mm/yy	20?07/2008	
Time UTC	0058	
Volume (cu in.)	P3300 S3300	
Streamer Depth (m)	10	10
Wind (kts)	s10kts	
Sea State (ft)	2-5	
Water Depth (m)	2904.88	

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhilber
Ch. Observer	R Steinhilber
Sen. Observer	
Observers	Bern McKiernan

	SOL	EOL		
Tape #	41	41	FGSP	1001
SP #	895	1539	LGSP	1539

Line	EPR3D2292P
Sequence	016
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	21/07/2008	21/07/2008
Time UTC	0659	9:56
Volume (cu in.)	3300	3300
Streamer Depth (m)	10	10
Wind (kts)	2.7 kts	8
Sea State (ft)	1 meter	1m
Water Depth (m)	2173	2840

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

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

Observers Log

Vessel	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhilber
Ch. Observer	R Steinhilber
Sen. Observer	
Observers	Bern McKiernan

	SOL	EOL		
Tape #	42	42	FGSP	1432
SP #	1539	894	LGSP	894

Line	EPR3D2092P
Sequence	017
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	21/12/2008	21/12/2008
Time UTC	1131	14:39
Volume (cu in.)	S1(3300) S2 (3300)	S1(3300) S2 (3300)
Streamer Depth (m)	10	10
Wind (kts)	16 kts	16
Sea State (ft)	2-3m	2 meter
Water Depth (m)	2904	2791

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL EPR3D2092P, POS 09 53' 08.150" N 104 10' 58.855" W
FGSP @ 1203, SHOT 1432, POS 09 52' 50.257" N 104 13' 08.121" W
Number of no fires both sources
EOL EPR3D2292P pos 09'51'20.072N 104'24' 04.206W LGSP 894
Line Status:

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

Time UTC	FILE	SP	Tape	Description
0957	n/a	n/a	n/a	S1G13, S1G17, no fire
1014	n/a	n/a	n/a	S2G19, no fire
1014	n/a	n/a	n/a	S2G11 timing error, S2G12, no fire
1015	n/a	n/a	n/a	S2G11 timing error, S2G16 no fire
1016	n/a	n/a	n/a	S2G11 timing error, S2G17 no fire
1020	n/a	n/a	n/a	S2G17, no fire
1021	n/a	n/a	n/a	S2G11, no fire
1023	n/a	n/a	n/a	S2G16, no fire
1024	n/a	n/a	n/a	S2G18, no fire
1024	n/a	n/a	n/a	S2G12, no fire
1025	n/a	n/a	n/a	S1G13, no fire
1028	n/a	n/a	n/a	S2G18, no fire
1033	n/a	n/a	n/a	S1G17, no fire
1034	n/a	n/a	n/a	S2G12, no fire
1052	n/a	n/a	n/a	S2G17, no fire
1056	n/a	n/a	n/a	S2G11, S2G12 no fire
1106	n/a	n/a	n/a	S2G20, no fire
1122	n/a	n/a	n/a	S2G20, no fire
1126	n/a	n/a	n/a	S2G19, no fire
1129	n/a	n/a	n/a	S2G17, no fire
1130	n/a	n/a	n/a	S2G16, no fire
1131	n/a	n/a	n/a	S2G18, S2G17, S2G11 no fire
1132	4	1536	42	S2G13, S218, no fire
1137	19	1520	42	S1G17, no fire
1140	30	1510	42	S2G18, S2G20 no fire
1141	32	1508	42	S2G14, no fire
1141	34	1506	42	S2G18, no fire
1142	36	1504	42	S2G17, no fire
1143	40	1500	42	S2G19, no fire
1144	43	1497	42	S2G20, no fire
1148	56	1484	42	S2G20, no fire
1150	62	1478	42	S2G20, no fire
1151	68	1472	42	S2G16, S2G17, S2G19, S2G20 no fire
1155	82	1458	42	S2G16 no fire
1156	83	1457	42	S1G17 no fire
1207	119	1421	42	S1G13 no fire
1208	123	1417	42	S1G13 no fire
1211	133	1407	42	S1G13 no fire
1222	172	1368	42	S2G14 no fire
1235	216	1324	42	S2G16, S2G17 no fire
1238	227	1313	42	S1G13 no fire
1243	243	1297	42	S1GUN13NO FIRE
1246	252	1288	42	S2G14 no fire
1305	320	1221	42	S1G13 NO FIRE
1308	329	1211	42	S1G13 NO FIRE
1314	349	1191	42	S1G17 NO FIRE
1322	375	1165	42	S1G17 NO FIRE
1326	389	1151	42	S1G13 no fire
1337	429	1111	42	S1G13 no fire

[illegible]

Observers Log

Vessel	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	Bern McKiernan/Mik Tantro

	SOL	EOL		
Tape #	43	43	FGSP	895
SP #	895	1539	LGSP	1385

Line	EPR3D2284P
Sequence	018
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	21/07/08	21/07/08
Time UTC	16:02	18:47
Volume (cu in.)	S1(3300) S2 (3300)	S1(3300) S2 (3300)
Streamer Depth (m)	10	10
Wind (kts)	4.2	25
Sea State (meter)	1 meter	2-4
Water Depth (m)	2091	2825

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[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

Vessel	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	44	44	FGSP	
SP #	1539		LGSP	

Line	EPR3D2084P
Sequence	019
Direction	262 deg

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID	DEG	
Date dd/mm/yy	21/07/08	
Time UTC	20:37	
Volume (cu in.)	P3300 S3300	
Streamer Depth (m)	10	10
Wind (kts)	SSW10	
Sea State (ft)	4-6	
Water Depth (m)	2918	

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinha
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	47	47	FGSP	1001
SP #	895	1539	LGSP	1539

Line	EPR3D2268P
Sequence	022
Direction	82 °

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	22/07/08	22/07/08
Time UTC	11:39	14:50
Volume (cu in.)	3300	s1 3300 s2 3300
Streamer Depth (m)	10	10
Wind (kts)	2.0	3.2
Sea State (ft)	1.0	1.0
Water Depth (m)	1988	2839

Cable	Erased Channels	Noisy/Weak Channels
1		378-390
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL EPR3D2268R Pos 09 54' 33.527N : 104 24' 33.354W
File 1 is Spurious
FGSP 1001 POS: 09 55'12.069N 104 22'24.195W
EOL EPR3D2268R pos 09 56'44.985N : 104 11'28.196W

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	48	48	FGSP	1432
SP #	1538	894	LGSP	894

Line	EPR3D2068P
Sequence	023
Direction	262 °

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	22/07/08	22/07/08
Time UTC	16:10	18:55
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	8	8.5
Sea State (ft)	1-3	3 ft.
Water Depth (m)	2912.5	2884

Cable	Erased Channels	Noisy/Weak Channels
1		378-390
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL - POS 9 52'41.555N : 104 10'55.098W
FGSP - POS 9 52'24.959N : 104 13'04.558W
PAM being retrieved at 18:36; speed reduced to 3.8 kts
EOL POS 9 50'55.127 N, 104 24'0.718 W
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinha
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	49	49	FGSP	1001
SP #	896	1539	LGSP	1539

Line	EPR3D2260P
Sequence	024
Direction	82°

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID	deg	deg
Date dd/mm/yy	22/07/08	22/07/08
Time UTC	20:24	0:00
Volume (cu in.)	p3300 s3300	p3300 s3300
Streamer Depth (m)	10	10
Wind (kts)	3	1
Sea State (ft)	1-3	1-3
Water Depth (m)	1891	6861

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhilber
Ch. Observer	R Steinhilber
Sen. Observer	Mike tatro
Observers	

	SOL	EOL		
Tape #	50	50	FGSP	1432
SP #	1432	894	LGSP	894

Line	EPR3D2060P
Sequence	025
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID	DEG	
Date dd/mm/yy	22/07/2008	22/07/2008
Time UTC	01:08	3:55
Volume (cu in.)	P3300 S3300	P3300 S3300
Streamer Depth (m)	10	10
Wind (kts)	S1	S10
Sea State (ft)	1-3	1-3
Water Depth (m)	2891.92	2896.06

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments	
SOL POS LAT 09 52.494N LON 104 35.9025 W	
EOL POS LAT 09 50.43686 N LON 104 35.9025 W	
Line Status:	

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinha
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	51	51	FGSP	1001
SP #	895	1539	LGSP	1539

Line	EPR3D2252
Sequence	026
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	23/07/08	23/07/08
Time UTC	0516	0:00
Volume (cu in.)	s1 3300 s2 3300	s1 3300 s2 3300
Streamer Depth (m)	10	10
Wind (kts)	3 SW	1 S
Sea State (ft)	calm	calm
Water Depth (m)	1906	2863.4

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinha
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	52	52	FGSP	1432
SP #	1537	894	LGSP	894

Line	EPR3D2052P
Sequence	027
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	23/07/08	23/07/08
Time UTC		
Volume (cu in.)	s1 3300 s2 3300	s1 3300 s2 3300
Streamer Depth (m)	10	10
Wind (kts)	14.5 SSW	17.2 SE
Sea State (ft)	calm	1m
Water Depth (m)	2887	2927

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments	
Start of line 9 52'22.314N 104 10'53.625W FSP 1537	
FGSP 1432 9 52'22.314N 104 10'53.625W	
EOL 09'50'32.948N	104' 23' 57.568W
Line Status:	

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinha
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	53	53	FGSP	894
SP #	895	1445	LGSP	1026

Line	EPR3D2244P
Sequence	028
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	23/07/08	23/07/08
Time UTC	14:07	
Volume (cu in.)	S1(3300) S2 (3300)	s1 0 s2 0
Streamer Depth (m)	10	10
Wind (kts)	4.8	7.1
Sea State (ft)	1 meter	1m
Water Depth (m)	1944	2933

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL pos 09'54'25.877N 104'24'29.429
Compressor Failure forces EOL
EOL pos 9 54'46.353N 104 21'49.442W LGSP 1007
Line Status:

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	Tatro
Observers	

	SOL	EOL		
Tape #	54	55	FGSP	1690
SP #	1690	894	LGSP	894

Line	EPR3D2044P
Sequence	029
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID	deg	deg
Date dd/mm/yy	23/07/2008	23/07/2008
Time UTC	00:04	3:47
Volume (cu in.)	p3300 s3300	p3300 s3300
Streamer Depth (m)	10	10
Wind (kts)	s3	s3
Sea State (ft)	3-5	3-5
Water Depth (m)	2928	2931

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinha
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	Eaton

	SOL	EOL		
Tape #	56	56	FGSP	1001
SP #	895	1539	LGSP	1539

Line	EPR3D2244R
Sequence	030
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	24/07/08	24/07/08
Time UTC	0509	0:00
Volume (cu in.)	s1 3300 s2 3300	s1 3300 s2 3300
Streamer Depth (m)	10	10
Wind (kts)	2	none
Sea State (ft)	calm	calm
Water Depth (m)	1905	2867

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinha
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	57	57	FGSP	1432
SP #	1538	894	LGSP	895

Line	EPR3D2036P
Sequence	031
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	24/07/07	24/07/08
Time UTC	09:38	12:45
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	11	10
Sea State (ft)	1m	1m
Water Depth (m)	2914	2948

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL pos 9 51'58.719N 104 10'49.049W
FGSP pos 9 51'50.110N 104 12'59.603W
EOL pos 9'50'15.463N 104'23'55.025W
Line Status:

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinha
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	Eaton

	SOL	EOL		
Tape #	58	58	FGSP	895
SP #	895	1539	LGSP	1380

Line	EPR3D2236P
Sequence	032
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	24/07/08	24/07/08
Time UTC	14:21	17:15
Volume (cu in.)	S1 3300 S2 3300	Power Down
Streamer Depth (m)	10	10
Wind (kts)	Light	Light
Sea State (ft)	2-4 Ft.	2-4 Ft
Water Depth (m)	1985	2882

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL pos 09'54'15.268N 104'24'27.914W FGSP 895
MMO sighting of turtle powered down to mammal gun on source 1 and source 2 from SP 1086-1106 (6 minutes)
MMO sighting of turtle powered down to mammal gun on source 1 and source 2 from SP 1381 EOL DNP
EOL pos 09 56.16N 104 11.26W SP 1539
Line Status: Incompletd due to Shutdown for turtles.

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinha
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	59	59	FGSP	1416
SP #	1480	894	LGSP	894

Line	EPR3D2028P
Sequence	033
Direction	282

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	24/07/08	24/07/08
Time UTC	1904	21:35
Volume (cu in.)	P3300 S3300	P3300 S3300
Streamer Depth (m)	10	10
Wind (kts)	S6	6
Sea State (ft)	1-3	1-3
Water Depth (m)	2768	2936

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinha
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	61	61	FGSP	1432
SP #	1432	894	LGSP	

Line	EPR3D2020P
Sequence	035
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	25/07/2008	25/07/08
Time UTC	04:08	6:19
Volume (cu in.)	p3300 s3300	p3300 s3300
Streamer Depth (m)	10	10
Wind (kts)	sw4	sw 9.1
Sea State (ft)	3-5	3
Water Depth (m)	2900	2950

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinha
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	60	60	FGSP	898
SP #	898	1539	LGSP	1539

Line	EPR3D2228P
Sequence	034
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	24/07/08	25/07/08
Time UTC	23:07	2:17
Volume (cu in.)	s1 3300 s2 3300	s1 3300 s2 3300
Streamer Depth (m)	10	10
Wind (kts)	sw 4	sw 1
Sea State (ft)	1-3	1-3
Water Depth (m)	1958	2883

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	61	61	FGSP	1432
SP #	1432	894	LGSP	

Line	EPR3D2020P
Sequence	035
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	25/07/2008	25/07/08
Time UTC	04:08	6:19
Volume (cu in.)	p3300 s3300	p3300 s3300
Streamer Depth (m)	10	10
Wind (kts)	sw4	sw 9.1
Sea State (ft)	3-5	3
Water Depth (m)	2900	2950

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

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

[illegible]

Observers Log

Vessel	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	62	62	FGSP	894
SP #	894	1539	LGSP	1539

Line	EPR3D2228I
Sequence	036
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	25/07/08	25/07/08
Time UTC	07:49	11:12
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	SE 1.5	0
Sea State (ft)	3-5	1-3
Water Depth (m)	1948.9	2884

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhilber
Ch. Observer	R Steinhilber
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	63	64	FGSP	1538
SP #	1538	734	LGSP	734

Line	EPR3D2012P
Sequence	037
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	25/07/08	25/07/08
Time UTC	12:49	16:05
Volume (cu in.)	s1 3300 s2 3300	s1 3300 s2 3300
Streamer Depth (m)	10	10
Wind (kts)	10	7.8 SW
Sea State (ft)	1 m	1 m
Water Depth (m)	2923	2962

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinha
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	65	66	FGSP	735
SP #	735	1539	LGSP	1539

Line	EPR3D2220P
Sequence	038
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	25/07/08	25/07/08
Time UTC	17:31	21:11
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	SW 10	S 17
Sea State (ft)	1-3	1-3
Water Depth (m)	2636	2869

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL EPR3D2220P; Seq 038; Pos 09 53'29.313 N, 104 27' 43.319 W
FGSP 735; Time 17:31.
EOL EPR3D2220P; Seq 038; POS 09 55'36.343 N, 104 11'18.584 W.
LGSP 1539; Time 21:11
Line Status:

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	67	67	FGSP	1538
SP #	1538	894	LGSP	894

Line	EPR3D2004P
Sequence	039
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	25/07/08	26/07/08
Time UTC	23:02	1:53
Volume (cu in.)	P 2940 S 3300	S 2400 P3300
Streamer Depth (m)	10	10
Wind (kts)	s 2knts	s 2
Sea State (ft)	1-3	1-3
Water Depth (m)	2835	2963

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinha
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	68	68	FGSP	906
SP #	906	1539	LGSP	1539

Line	EPR3D2212P
Sequence	040
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	26/07/08	26/07/08
Time UTC	0331	0616
Volume (cu in.)	P3300 S3300	P3300 S3300
Streamer Depth (m)	10	10
Wind (kts)	S6	SW 14
Sea State (ft)	1-3	1-3
Water Depth (m)	1978	2882

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments	
03:31 pos Lat 09 53 46.403N LON 104 24 10.107W	
EOL 9 55'27.765 104 11'17.386W	
Line Status:	

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhilber
Ch. Observer	R Steinhilber
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	69	69	FGSP	1538
SP #	1538	894	LGSP	894

Line	EPR3D1996P
Sequence	041
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	26/07/08	26/07/08
Time UTC	0745	1045
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	8 N	10 SE
Sea State (ft)	1-3	3-5
Water Depth (m)	2928	2942

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	70	70	FGSP	
SP #	895	1504	LGSP	

Line	EPR3D2204P
Sequence	042
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	26/07/08	26/07/08
Time UTC	1208	1443
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	8.6 SW	14s
Sea State (ft)	2-4	2-4
Water Depth (m)	2008	2689

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL 9 53'35.397N 104 24'22.239W
Syntrak stopped writing headers SP 999
SP 1000 Only source 2 fires
EOL 9 53'50.216N 104 22'15.013W
DO NOT PROCESS DUE TO DIGISHOT SYSTEM MALFUNCTION
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	71	71	FGSP	1539
SP #	1539	894	LGSP	894

Line	EPR3D1988P
Sequence	043
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	26/07/08	26/07/08
Time UTC	16:23	19:19
Volume (cu in.)	s1 3300 s2 3300	s1 3300 s2 3300
Streamer Depth (m)	10	10
Wind (kts)	6.7 SSE	11 SE
Sea State (ft)	1-3	3-5
Water Depth (m)	2933	2942

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	ic

	SOL	EOL		
Tape #	72	72	FGSP	895
SP #	895	1539	LGSP	1539

Line	EPR3D2204R
Sequence	044
Direction	82deg

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	26/07/08	26/07/08
Time UTC	20:46	2321
Volume (cu in.)	S13300 S2 3300	S13300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	7 N	no data rec
Sea State (ft)	3-5	no data rec
Water Depth (m)	2005	2882

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	73	73	FGSP	1538
SP #	1539	894	LGSP	894

Line	EPR3D1988J
Sequence	045
Direction	262deg

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	27/07/2008	27/07/2008
Time UTC	00:46	03:36
Volume (cu in.)	s13300 s23300	s3300 p3300
Streamer Depth (m)	10	10
Wind (kts)	s15	s15
Sea State (ft)	2-4	2-4
Water Depth (m)	2784	2930

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[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

Vessel	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	74	74	FGSP	895
SP #	895	1539	LGSP	1539

Line	EPR3D2196P
Sequence	046
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	27/07/08	27/07/08
Time UTC	0503	0800
Volume (cu in.)	p3300 s3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	10 NW	1 NW
Sea State (ft)	3-5	3-5
Water Depth (m)	2018	2893

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL 9 53'29.989N 104 24'21.086W
EOL 9 55'15.238N 104 11'15.246W
NO EVENTS
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	75	75	FGSP	1538
SP #	1538	894	LGSP	894

Line	EPR3D1980P
Sequence	047
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	27/07/08	27/07/08
Time UTC	0927	1214
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	8	3
Sea State (ft)	3	3
Water Depth (m)	2911	2936

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL 9 50'55.493N 104 10'40.096W
EOL 9 49'04.048N 104 23'44.867W
NO EVENTS
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	76	76	FGSP	895
SP #	895	1539	LGSP	1539

Line	EPR3D2188P
Sequence	048
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	27/07/08	27/07/08
Time UTC	1339	1633
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	7	9
Sea State (ft)	4-6	3-5
Water Depth (m)	2047	2889

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL 9 53'17.770N 104 24'19.751W
EOL 9 55'01.063N 104 11'13.595W
NO EVENTS
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	77	77	FGSP	1460
SP #	1460	894	LGSP	894

Line	EPR3D1972P
Sequence	049
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	27/07/08	27/07/08
Time UTC	20:19	22:42
Volume (cu in.)	S1 3300 S2 3300	S13300 S13300
Streamer Depth (m)	10	10
Wind (kts)	SE 7	S5kts
Sea State (ft)	1-3	1-3
Water Depth (m)	2808	2900

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL EPR3D1972P @ 20:19; POS 09 50'27.846 N, 104 12'13.166 W.
EOL LAT 09 48' 53.761n LON 104 23' 43.468w
NO EVENTS
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	78	78	FGSP	895
SP #	895	1539	LGSP	1539

Line	EPR3D2180P
Sequence	SEQ#50
Direction	82deg

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	28/07/2008	28/07/2008
Time UTC	0007	0259
Volume (cu in.)	S13300 S23300	S13300 S23300
Streamer Depth (m)	10	10
Wind (kts)	S3	S3
Sea State (ft)	1-3FT	1-3FT
Water Depth (m)	2088	2888.5

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 09 53 07.266W 104 24 18.258W
EOL POS 09 54 52.663N 104 11 12.458W
NO EVENTS
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhilber
Ch. Observer	R Steinhilber
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	79	79	FGSP	1539
SP #	1539	894	LGSP	894

Line	EPR3D1964P
Sequence	051
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	28/07/2008	28/07/08
Time UTC	0425	0701
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	W1	S 1
Sea State (ft)	1-3	1-3
Water Depth (m)	2884	2934

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	80	80	FGSP	895
SP #	895	1539	LGSP	1539

Line	EPR3D2172P
Sequence	052
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	28/07/08	28/07/08
Time UTC	0826	1125
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	9 N	7 SSW
Sea State (ft)	3	3
Water Depth (m)	2140	2902

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL 9 52'57.048N 104 24'16.810W
EOL 9 53'55.705N 104 11'04.378W

SP 1420 - FORCED to deviate from line due to fishing vessel
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	81	81	FGSP	1538
SP #	1538	894	LGSP	894

Line	EPR3D1956P
Sequence	053
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	28/07/08	28/07/08
Time UTC	1338	1624
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	0	2
Sea State (ft)	1-3	3
Water Depth (m)	2878	2934

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL 9 50'23.120N 104 10'35.507W
EOL 9 48'33.606N 104 23'40.636W
NO EVENTS
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhilber
Ch. Observer	R Steinhilber
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	83	83	FGSP	889
SP #	889	1539	LGSP	1539

Line	EPR3D2156P
Sequence	055
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	29/07/08	29/07/08
Time UTC	1429	17:42
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	15	18
Sea State (ft)	1-3	1-3
Water Depth (m)	2300	2890

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	84	84	FGSP	1538
SP #	1538	894	LGSP	894

Line	EPR3D1948P
Sequence	056
Direction	262°

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	29/07/08	29/07/08
Time UTC	19:09	21:35
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	NW 10	N 8
Sea State (ft)	2-4	1-3
Water Depth (m)	2888	2940

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS LAT 09 59' 15.670 N, LON 104 10'34.536 W
EOL POS LAT 09 48'23.362 N, LON 104 23'39.163 W
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	85	85	FGSP	894
SP #	894		LGSP	

Line	EPR3D2148P
Sequence	057
Direction	82°

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	29/07/08	30/07/08
Time UTC	2254	01:50
Volume (cu in.)	S1 3300 S2 33000	S3300 P3300
Streamer Depth (m)	10	10
Wind (kts)	s11	S10
Sea State (ft)	3-5	3-5
Water Depth (m)	2434	2893

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	fs

General / Line Comments
SOL POS 09 52.5n 104 24.18w
Sut down due to turtle sighting SP#1318 TIME 00:50
SP#1350 Full Power Back Online
All data after 1318 rejected
EOL
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	86	86	FGSP	1508
SP #	1537	894	LGSP	894

Line	EPR3D1996I
Sequence	058
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	30/07/2008	30/07/08
Time UTC	03:12	05:53
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	---	Lt-var
Sea State (ft)	1-3	3-5
Water Depth (m)	2801	2942

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
POS LAT 09 51 00.561N LON 104 11.18.126w
POS 9 45' 25.433N 104 23' 47.967W
Line Status:

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]

[illegible]

Observers Log

Vessel	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	89	89	FGSP	895
SP #	895	1539	LGSP	1539

Line	EPR3D2284R
Sequence	061
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	30/07/08	30/07/08
Time UTC	1602	18:39
Volume (cu in.)	s1 3300 s2 3300	s1 3300 s2 3300
Streamer Depth (m)	10	10
Wind (kts)	5	SSW 14
Sea State (ft)	3	2-4
Water Depth (m)	2092	2818

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

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

[illegible]

Observers Log

Vessel	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	90	90	FGSP	1538
SP #	1538	894	LGSP	894

Line	EPR3D2116I
Sequence	062
Direction	262°

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	30/07/08	30/07/08
Time UTC	19:50	22:32
Volume (cu in.)	S1 3300 S2 3300	S13300 S23300
Streamer Depth (m)	10	10
Wind (kts)	W 9	W 12
Sea State (ft)	2-4	2-4
Water Depth (m)	2898	2822fs

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	91	91	FGSP	894
SP #	894	941	LGSP	941

Line	EPR3D2252I - DNP
Sequence	063
Direction	82deg

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	30/07/08	30/07/08
Time UTC	23:37	2349
Volume (cu in.)	S13300 S23300	unknown
Streamer Depth (m)	10	10
Wind (kts)	S 15	not rec
Sea State (ft)	2-4	not rec
Water Depth (m)	1913	not rec

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POC LAT 09 54 27.587n LON 104 24 29.675w
EOL Line terminated due to umbilical air leak 23:50 POS LAT pulling source 1 ondeck for repair
POS LAT 09 54 35.542n LAT 104 22.87w
DO NOT PROCESS
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	92	92	FGSP	1129
SP #	1128	1539	LGSP	1539

Line	EPR2252J
Sequence	064
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	31/07/08	31/07/08
Time UTC	00:50	02:52
Volume (cu in.)	S1 - 0 in3 S2- 3300	S1 - 0 in3 S2- 3300
Streamer Depth (m)	10	10
Wind (kts)	NE @ 25 kts	NE @ 22 kts
Sea State (ft)	4-6 Ft.	4-6 Ft.
Water Depth (m)	2723	2864

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL - Single Source due to Failure of Gun String #1's Hose Bundle Failure.
Pos: 09 55 07.309N 104 19 45.553
EOL
Pos: 09 56 21.081N 104 11 24.904
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	93	93	FGSP	1538
SP #	1538	894	LGSP	894

Line	EPR2092I
Sequence	065
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	31/07/2008	31/07/08
Time UTC	04:02	06:42
Volume (cu in.)	S11830 S23300	S1 3660 S2 1830
Streamer Depth (m)	10	10
Wind (kts)	SE 12	18 SE
Sea State (ft)	4-6	4-6
Water Depth (m)	2886.3	2886

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL pos lat 09 53 07.33N lon 104 10 58.756W
Dual source with S1 1830in3 and S2 3300in3
EOL pos Lat 09 51'20.144N Lon 104 24'04.253W
Sources have reversed, S1 is reading higher Volume then S2
No events
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	94	94	FGSP	880
SP #	880	1539	LGSP	1539

Line	EPR3D2140I
Sequence	066
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μB				
EOL Cable Noise, μB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	31/07/08	31/07/08
Time UTC	1106	1446
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	15	16
Sea State (ft)	4-6	3-5
Water Depth (m)	2694	2902

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinha
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	95	95	FGSP	1538
SP #	1538	894	LGSP	894

Line	EPR3D1988J
Sequence	067
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	31/07/08	31/07/08
Time UTC	1558	18:22
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	4	N 4
Sea State (ft)	3	1-3
Water Depth (m)	2927	2938

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	96	96	FGSP	895
SP #	895	1539	LGSP	1539

Line	EPR3D2236R
Sequence	068
Direction	82°

Streamer Parameters				
	1	2	3	4
222	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μB				
EOL Cable Noise, μB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	31/07/08	31/07/08
Time UTC	19:56	2306
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	S 14	S9
Sea State (ft)	2-4	2-4
Water Depth (m)	1950.7	2883

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	97	97	FGSP	1535
SP #	1535	894	LGSP	894

Line	EPR3D2076I
Sequence	069
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	08/01/08	08/01/08
Time UTC	00:46	0328
Volume (cu in.)	s13300 s23300	s1-3300 s2-3300
Streamer Depth (m)	10	10
Wind (kts)	s2	s2
Sea State (ft)	2-4	2-4
Water Depth (m)	2920.8	2889.2

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinha
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	97		FGSP	
SP #			LGSP	

Line	EPR3D20763I
Sequence	069
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	08/01/08	
Time UTC		
Volume (cu in.)	S1 3300 S23300	
Streamer Depth (m)	10	10
Wind (kts)		
Sea State (ft)		
Water Depth (m)		

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	98	99	FGSP	879
SP #	857	1725	LGSP	1725

Line	TRANSIT2
Sequence	070
Direction	154

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	01/08/08	01/08/08
Time UTC	0429	0915
Volume (cu in.)	S13300 S23300	S13300 S23300
Streamer Depth (m)	10	10
Wind (kts)	N4	21
Sea State (ft)	2-4	2-4
Water Depth (m)	2896	2806

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	100	102	FGSP	3260
SP #	3260	4911	LGSP	4911

Line	AXIS3P2
Sequence	071
Direction	351

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	01/08/08	01/08/08
Time UTC	1021	17:22
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	12	S 8
Sea State (ft)	3-5	2-4
Water Depth (m)	2558	2567

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL 09 32 48.569 104 14'40.352
SP 4047 - Reel Change to 101
Reel Change to 102
Digishot Error - log is off by -1 hour UTC. Log manually adjusted
EOL 10 05'48.165 N, 104 20'58.214 W
Line Status:

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

Time UTC	FILE	SP	Tape	Description
1024	12	3271	100	S1 G17 NO FIRE
1030	38	3297	100	S1 G17 NO FIRE
1031	40	3299	100	S1 G17 NO FIRE
1033	49	3308	100	S2 G12 PRESSURE ERROR (no signal)
1033	50	3309	100	S2 G12 PRESSURE ERROR (no signal)
1033	52	3311	100	S1 G17 NO FIRE
1040	78	3337	100	S1 G13 NO FIRE
1058	154	3413	100	S1 G13 NO FIRE
1106	188	3447	100	S1 G17 NO FIRE
1107	192	3451	100	S1 G13 NO FIRE
1112	216	6475	100	S1 G13 NO FIRE
1121	252	3511	100	S1 G13 NO FIRE
1142	344	3603	100	S1 G17 NO FIRE
1150	376	3635	100	S1 G13 NO FIRE
1155	396	3655	100	S1 G17 NO FIRE
1202	424	3683	100	S1 G17 NO FIRE
1211	458	3717	100	S1 G13 NO FIRE
1212	462	3721	100	S1 G13 NO FIRE
1216	438	3742	100	S2 G01 TIMING ERROR
1227	525	3784	100	S2 G01 TIMING ERROR
1230	540	3799	100	S1 G14 NO FIRE
1253	632	3891	100	S1 G14 NO FIRE
1255	640	3899	100	S1 G17 NO FIRE
1302	671	3929	100	S1 G17 NO FIRE
1304	678	3936	100	S2 G12 PRESSURE ERROR (no signal)
1304	679	3937	100	S2 G12 PRESSURE ERROR (no signal)
1311	708	3967	100	S1 G17 NO FIRE
1313	716	3975	100	S1 G13 NO FIRE
1326	756	4025	100	S1 G13 NO FIRE
1330	784	4043	100	S1 G13 NO FIRE
1334	800	4059	101	S1 G17 NO FIRE
1337	812	40171	101	S1 G13 NO FIRE
1342	831	4090	101	S2 G01 TIMING ERROR
1350	860	4119	101	S1 G13 NO FIRE
1351	862	4121	101	S1 G13 NO FIRE
1351	864	4123	101	S1 G13 NO FIRE
1359	896	4155	101	S1 G13 NO FIRE
1405	918	4177	101	S1 G17 NO FIRE
1406	922	4181	101	S1 G13 NO FIRE
1406	924	4183	101	S1 G17 NO FIRE
1409	934	4193	101	S1 G13 NO FIRE
1413	948	4207	101	S1 G17 NO FIRE
1415	958	4217	101	S1 G17 NO FIRE
1428	1006	4265	101	S1 G13 NO FIRE
1428	1008	4267	101	S1 G13 NO FIRE
1431	1020	4279	101	S1 G13 NO FIRE
1437	1044	4303	101	S1 G13 NO FIRE
1440	1054	4313	101	S1 G13 NO FIRE
1443	1066	4325	101	S1 G17 NO FIRE

[illegible]

Observers Log

Vessel	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	M Tatro
Observers	L. Conrad

	SOL	EOL		
Tape #	103	104	FGSP	5095
SP #	5095	3610	LGSP	3610

Line	Axis4P
Sequence	072
Direction	171

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	01/08/08	01/08/08
Time UTC	19:39	0222
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	6	2
Sea State (ft)	2-4	2-4
Water Depth (m)	2614	2544

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 10 09'33.510 N, 104 21'13.141 W
S1 G17 Disabled @ 23:35
EOL POS LAT 09 39 51.928 LON 104 15 39.49w
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	105	105	FGSP	894
SP #	894	1539	LGSP	1539

Line	EPR3D1780P
Sequence	073
Direction	82deg

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	02/08/08	02/08/08
Time UTC	0544	0835
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	1	15
Sea State (ft)	3	3-5
Water Depth (m)	2946	2851

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 9 45'03.762N 104 23'10.833W
EOL POS 9 46'53.790N 104 10'04.729W
NO EVENTS
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	Mckiernan
Observers	Eaton

	SOL	EOL		
Tape #	106	106	FGSP	1538
SP #	1538	894	LGSP	894

Line	EPR3D1924P
Sequence	074
Direction	262°

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	02/08/08	02/08/08
Time UTC	0951	1233
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	28	20
Sea State (ft)	4-6	3-5
Water Depth (m)	2885	2941

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 9 49°50.033N 104 10°30.842W
EOL POS 9 47°57.676N 104 23°35.492W
NO EVENTS
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhilber
Ch. Observer	R Steinhilber
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	107	107	FGSP	895
SP #	895	1539	LGSP	1539

Line	EPR3D1772P
Sequence	075
Direction	82°

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	02/08/08	02/08/08
Time UTC	1340	16:49
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	17	ne8
Sea State (ft)	4-6	4-6
Water Depth (m)	2929	2876.2

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	108	108	FGSP	1458
SP #	1458	894	LGSP	894

Line	EPR3D1916P
Sequence	076
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	02/08/08	02/08/08
Time UTC	18:26	20:48
Volume (cu in.)	S1 3300 S23300	S1 3300 S23300
Streamer Depth (m)	10	10
Wind (kts)	S 19	S 16
Sea State (ft)	2-4	1-2
Water Depth (m)	2790	2948

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 09 49'24.987 N, 104 12'06.746 W
EOL POS 09 47'47.457 N, 104 23'34.046 W
[No MISFIRES and no NO FIRES]
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	109	109	FGSP	895
SP #	895	1539	LGSP	1539

Line	EPR3D1764P
Sequence	077
Direction	82°

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	02/08/08	03/08/08
Time UTC	21:59	01:29
Volume (cu in.)	S1 3300 S23300	S13300 S23300
Streamer Depth (m)	10	10
Wind (kts)	N 4	N 10
Sea State (ft)	1-2	1-2
Water Depth (m)	2920	2865

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 09 44'42.977 N, 104 23'06.624 W
EOL POS LAT 09 45 45.526n LON 104 15 44.279w
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	110	110	FGSP	1524
SP #	1524	894	LGSP	894

Line	EPR3D1908P
Sequence	SEQ#78
Direction	262deg

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	03/08/08	03/08/08
Time UTC	02:44	05:06
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	11	10
Sea State (ft)	1-3	3-5
Water Depth (m)	2059	2936

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS LAT 09 49 25.939 LON 104 10 44.891w
EOL POS LAT 09 47'39.103N LON 104 23'32.846W
NO EVENTS
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	111	111	FGSP	895
SP #	895	1539	LGSP	1539

Line	EPR3D1756P
Sequence	079
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	03/08/08	03/08/08
Time UTC	0616	0922
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	5	9
Sea State (ft)	3-5	3-5
Water Depth (m)	2911	2861

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 9 44'33.834N 104 23'05.332W
EOL POS 9 46' 21.635" N 104 10' 00.69" W
NO EVENTS
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	112	112	FGSP	1538
SP #	1538	894	LGSP	894

Line	EPR3D1900P
Sequence	080
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	03/08/08	03/08/08
Time UTC	1030	1259
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	6	8
Sea State (ft)	2-4	3
Water Depth (m)	2877	2929

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL pos. 9 49' 18.948" N 104 10' 26.444" W
EOL pos 9 47'25.677 N 104 23'30.951 W
NO EVENTS
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	113	114	FGSP	680
SP #	680	1539	LGSP	1539

Line	EPR3D1748P
Sequence	081
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	03/08/08	03/08/08
Time UTC	1451	19:17
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	1	5-10
Sea State (ft)	3	2-4
Water Depth (m)	2092	2824.2

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 9 43°47.673N 104 27°25.976W
Tape Change - old reel # 113 - new reel #114 - time 18:55 - SP 1467 first shot point on new reel - last file on old reel #787
EOL POS 09 46°11.1 N, 104 09°58.6 W
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	115	115	FGSP	1539
SP #	1539	894	LGSP	894

Line	EPR3D1892P
Sequence	082
Direction	262deg

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	03/08/08	03/08/2008
Time UTC	2027	2338
Volume (cu in.)	S1 3300 S2 3300	S13300 S23300
Streamer Depth (m)	10	10
Wind (kts)	W6	W5
Sea State (ft)	2-4	1-3
Water Depth (m)	2844.1	2951.1

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS LAT 09 49 08.720N LON 104 10 25.016W
Gun strings 3 and 4 turned off and removed from water at 20:39 due to massive airleak
2325 Guns back in the water and firing changed to internal and shot at a 15 sec interval started a SP 936 to 912
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhilber
Ch. Observer	R Steinhilber
Sen. Observer	Mckiernan
Observers	Eaton

	SOL	EOL		
Tape #	0117	0117	FGSP	1538
SP #	1538	894	LGSP	894

Line	EPR3D1884P
Sequence	084
Direction	262DEG

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	04/08/08	04/08/08
Time UTC	0515	0753
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	7	8
Sea State (ft)	3	3
Water Depth (m)	2847	2947

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	0118	0118	FGSP	895
SP #	895	1539	LGSP	1539

Line	EPR3D1732P
Sequence	085
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	04/08/08	04/08/08
Time UTC	0904	1217
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	0	0
Sea State (ft)	2-3	2-3.
Water Depth (m)	2895	2861

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	119	119	FGSP	1515
SP #	1538	894	LGSP	894

Line	EPR3D1876P
Sequence	086
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	04/08/08	04/08/08
Time UTC	1328	1607
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	9	9
Sea State (ft)	< 3	< 3
Water Depth (m)	2862	2945

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 9 48'54.665N 104 10'23.056W
Stared line with 1 gun per source (MMO SIGHTING)
SP 1515 - Guns at full power
EOL POS 9 47'03.569N 104 10'23.056W
NO EVENTS
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	120	121	FGSP	698
SP #	698	1539	LGSP	1539

Line	EPR3D1724P
Sequence	087
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	04/08/08	04/08/08
Time UTC	18:15	22:17
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	9	8
Sea State (ft)	2-4	1-2
Water Depth (m)	2924.8	2853

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS LAT 09 43'24.042 N, LON 104 27'00.064 W
19:45 - Air Guns Powered Down Due to MMO Sighting
19:52 - Guns Back to Full Power [FGSP 1032]
Reel Change - file 787 last on tape 120 - file 788 first on tape 121
EOL POS 09 45'43.642 N, 104 09'54.808 W
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	122	122	FGSP	1538
SP #	1538	894	LGSP	894

Line	EPR3D1868P
Sequence	088
Direction	262°

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	04/08/08	05/08/2008
Time UTC	23:29	0211
Volume (cu in.)	S1 3300 S2 3300	S13300 S23300
Streamer Depth (m)	10	10
Wind (kts)	SE14	S 4
Sea State (ft)	1-3	1-3
Water Depth (m)	2865.2	2936.9

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS LAT 09 48 46.343n 104 10 21.832w
EOL POS 09 46 56.348N 104 23 26.793W
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	123	123	FGSP	895
SP #	895	1539	LGSP	1539

Line	EPR3D1716P
Sequence	089
Direction	82DEG

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	05/08/08	05/08/08
Time UTC	03:30	06:47
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	S5	16
Sea State (ft)	1-3	1-3
Water Depth (m)	2899	2855

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS LAT 09 43'47.095 LON 104 22'58.705
EOL POS 9 45'34.581N 104 09'53.518 W
NO EVENTS
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	124	124	FGSP	1538
SP #	1538	894	LGSP	894

Line	EPR3D1868I
Sequence	090
Direction	262°

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	05/08/08	05/08/08
Time UTC	0802	1048
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	23	19
Sea State (ft)	3	6
Water Depth (m)	2870	2929

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 9 48'36.534N 104 10'20.452W
EOL POS 9 46'47.921N 104 23'25.608W
NO EVENTS
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	125	125	FGSP	895
SP #	895	1539	LGSP	1539

Line	EPR3D1708P
Sequence	091
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	05/08/08	05/08/08
Time UTC	1205	1515
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	16	6
Sea State (ft)	4-6	3
Water Depth (m)	2899	2046

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 9 43'37.933N 104 22'57.397W
EOL POS 9 45'24.698N 104 09'52.120W
NO EVENTS
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	126	129	FGSP	1281
SP #	1538	894	LGSP	894

Line	EPR3D1860P
Sequence	092
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	05/08/08	05/08/08
Time UTC	1630	19:40
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	18	20-22
Sea State (ft)	3	6
Water Depth (m)	2853	2914

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 9 48°54.094N 104 10°22.943N
16:48 - Seisnet 2 crashed... data recording stopped (problems with Seisnet 1)
17:47 - Data Recording fixed and restarted (FGSP 1281)... new tape number: 127
18:16 - Recording Problems Restarted
18:27 - Recording Cycle Ended
18:28 - Reel Change to 128 (FGSP 1115) and recording restarted.
EOL POS 09 46°38.762 N, 104 23°24.298 W
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	130	133	FGSP	852
SP #	852	1539	LGSP	1539

Line	EPR3D1700P
Sequence	093
Direction	82°

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	05/08/08	05/08/08
Time UTC	21:22	00:27
Volume (cu in.)	S1 3300 S2 3300	S13300 S23300
Streamer Depth (m)	10	10
Wind (kts)	16	S14
Sea State (ft)	6-8	6-8
Water Depth (m)	2874.4	2845.7

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 09 43'20.606 N, 104 23'48.367 W
21:59 - Stopped Recording to Fix Syntrak (SP 997)
22:20 - Syntrak Recording Restarted (FSP 1064)
22:50 Stopped Syntrak Recording SP 1176
22:58 Syntrak Restared 1205
EOL POS LAT 09 45'14.794w LON 104 09' 50.740w
Missed Shotpoints 997-1063 1176-1205 1314-1360
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinha
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	134	139	FGSP	1538
SP #	1538	894	LGSP	894

Line	EPR3D1860R
Sequence	SEQ#94
Direction	262deg

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	04/08/08	05/08/08
Time UTC	02:10	05:06
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	s15	25
Sea State (ft)	4-6ft	4-6
Water Depth (m)	2866	2918

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	140	143	FGSP	895
SP #	895	1539	LGSP	1539

Line	EPR3D1692P
Sequence	095
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	06/08/08	06/08/08
Time UTC	0619	0906
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	13	14
Sea State (ft)	4-6	4-6
Water Depth (m)	2874	2840

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 9 43'19.675N 104 22'54.790W
REEL#140 Missed Shots 964-655
REEL#141 Missed Shots 1060-1064 (Multiple Syntrak Errors on Line closure)
REEL#142 Missed Shots 1164-1166
EOL POS 9 45'09.741N 104 09'50.010W
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	144	144	FGSP	1538
SP #	1538	894	LGSP	894

Line	EPR3D1852P
Sequence	096
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	06/08/08	06/08/08
Time UTC	1024	1326
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	20	22
Sea State (ft)	6	3
Water Depth (m)	2859	2937

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 9 48'19.483N 104 10'18.044W
EOL POS 9 46'28.924N 104 23'22.911W
NO EVENTS
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	145	145	FGSP	895
SP #	895	1539	LGSP	1539

Line	EPR3D1684P
Sequence	097
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	06/08/08	06/08/08
Time UTC	1442	17:52
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	11	4
Sea State (ft)	3	3-5
Water Depth (m)	2872.3	2857

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 9 43'09.303N 104 22'53.289W
EOL POS 09 44'59.108 N, 10409'48.478 W
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	146	146	FGSP	1624
SP #	1625	894	LGSP	894

Line	EPR3D1844P
Sequence	098
Direction	262°

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	06/08/08	06/08/08
Time UTC	20:30	23:48
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	S 15	S 10-15
Sea State (ft)	3-5	3-5
Water Depth (m)	2883.4	2932.4

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 09 48°23.523 N, 104 08°30.529 W
EOL POS 09 46°17.724 N, 104 23°21.269W
Line Status: Complete

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinha
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	147	147	FGSP	897
SP #	897	1539	LGSP	1539

Line	EPR3D1676P
Sequence	099
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	07/08/08	07/08/2008
Time UTC	01:05	0426
Volume (cu in.)	S1 3300 S2 3300	s1 3300 s23300
Streamer Depth (m)	10	10
Wind (kts)	E18	N5
Sea State (ft)	2-4	2-4
Water Depth (m)	2874	2869.4

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhilber
Ch. Observer	R Steinhilber
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	148	148	FGSP	1538
SP #	1538	894	LGSP	894

Line	EPR3D1836P
Sequence	100
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	07/08/08	07/08/08
Time UTC	0550	0831
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	15	15
Sea State (ft)	3	3
Water Depth (m)	2877	2922

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhilber
Ch. Observer	R Steinhilber
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	149	149	FGSP	895
SP #	895	1539	LGSP	1539

Line	EPR3D1668P
Sequence	101
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	07/08/08	07/08/08
Time UTC	946	1307
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	4	3
Sea State (ft)	3	3
Water Depth (m)	2864	2869

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinha
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	150	150	FGSP	1538
SP #	1538	894	LGSP	894

Line	EPR3D1828P
Sequence	102
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	07/08/08	07/08/08
Time UTC	1424	16:55
Volume (cu in.)	S1 3300 S2 3300	S13300 S23300
Streamer Depth (m)	10	10
Wind (kts)	SW 10	S6
Sea State (ft)	3	2-4
Water Depth (m)	2875	2933.8

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	151	151	FGSP	895
SP #	895	1539	LGSP	1539

Line	EPR3D1660P
Sequence	103
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	07/08/08	07/08/08
Time UTC	18:11	21:36
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	S4	W 4
Sea State (ft)	2-4	2-5
Water Depth (m)	2860	2880

Cable	Erased Channels	Noisy/Weak Channels
1		
2		
3		
4		

ProMax - QC the above channels

660P

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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	152	152	FGSP	1537
SP #	1537	894	LGSP	894

Line	EPR3D1820P
Sequence	104
Direction	262°

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	07/08/08	08/08/08
Time UTC	2251	01:37
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S23300
Streamer Depth (m)	10	10
Wind (kts)	s 13	S18
Sea State (ft)	2-5	2-4
Water Depth (m)	2873.8	2936

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments					
SOL POS 09 47 13.192N	104 10 13.322W				
EOL POS 09 45'47.449n	104 23'16.979w				
Line Status:					

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

Vessel	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	153	153	FGSP	895
SP #	895	1539	LGSP	1539

Line	EPR3D1652P
Sequence	105
Direction	82deg

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	08/08/08	08/08/08
Time UTC	03:00	0617
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	NE11	NE 16
Sea State (ft)	2-4	3
Water Depth (m)	2859	2871

Cable	Erased Channels	Noisy/Weak Channels
1		32, 33
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS LAT 09 42'32.661n 104 22'48.124w
EOL POS 9 44'18.770N 104 09'42.813W
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhilber
Ch. Observer	R Steinhilber
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	154	154	FGSP	1538
SP #	1538	894	LGSP	894

Line	EPR3D1812P
Sequence	106
Direction	262°

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	08/08/08	08/08/08
Time UTC	0735	1041
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	S 23	20
Sea State (ft)	3-5	3-5
Water Depth (m)	2873	2937

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	155	155	FGSP	895
SP #	895	1539	LGSP	1539

Line	EPR3D1644P
Sequence	107
Direction	82°

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	08/08/08	08/08/08
Time UTC	1159	1453
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	8	2
Sea State (ft)	3-5	3
Water Depth (m)	2866	2864

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 9 43'23.063N 104 22'46.751W
EOL POS 9 44'09.611N 104 09'41.498W
NO EVENTS
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	156	157	FGSP	1671
SP #	1732	894	LGSP	894

Line	EPR3D1804P
Sequence	108
Direction	262°

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	08/08/08	08/08/08
Time UTC	16:52	20:38
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	sw10	16
Sea State (ft)	2-4	1-2
Water Depth (m)	2937.8	2936.9

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS LAT 09 07 44.879n 104 06'12.819w
Source 2 Powered Up (SP 1678) at 17:09
Reel Change Occurred at Shot Point # 947
EOL POS 09 45'30.024 N, 104 23'14.540 W
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	159	159	FGSP	1629
SP #	1629	894	LGSP	894

Line	EPR3D1796P
Sequence	110
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	09/08/08	09/08/08
Time UTC	03:53	0705
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	S16	14
Sea State (ft)	2-4	2-4
Water Depth (m)	2876	2946

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	160	161	FGSP	701
SP #	701	1539	LGSP	1539

Line	EPR1700R
Sequence	111
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	09/08/08	09/08/08
Time UTC	0837	1240
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	8	6
Sea State (ft)	2-4	2-4
Water Depth (m)	2910	2833

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[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

Vessel	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhilber
Ch. Observer	R Steinhilber
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	162	162	FGSP	1538
SP #	1538	845	LGSP	845

Line	EPR3D1468P
Sequence	112
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	09/08/08	09/08/08
Time UTC	14:10	17:05
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	12	11
Sea State (ft)	1-3	3-5
Water Depth (m)	2904	2915

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	163	163	FGSP	894
SP #	894	1539	LGSP	1539

Line	EPR3D1628P
Sequence	113
Direction	82°

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	09/08/08	09/08/08
Time UTC	18:40	22:12
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	N 5	sensor down
Sea State (ft)	3	4-6
Water Depth (m)	2863	2860.9

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 09 42'03.969 N, 104 22'45.269 W
EOL POS 09 43'49.999 N, 104 09'38.742 W [last file # 647]
META SENSOR DOWN AT 19:47
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	164	164	FGSP	1737
SP #	1537	894	LGSP	894

Line	EPR3D1788P
Sequence	114
Direction	262°

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	09/08/08	10/08/08
Time UTC	23:31	02:13
Volume (cu in.)	S1 3300 S2 3300	S13300 S2330
Streamer Depth (m)	10	10
Wind (kts)	10	N7
Sea State (ft)	2-4	2-4
Water Depth (m)	2865	2938

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL 09 46'55.005 LAT 104 10'07.906
Weather Nav Down
Power down for pilot whales Time 01:14 SP1121
Ramping up SP1072 Time 01:47 Sp1121-894 do not process
01:47 Ramp up complete SP995
EOL 09 45'08.797n 104 23'11.494w
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinha
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	165	165	FGSP	895
SP #	895	1539	LGSP	1539

Line	EPR3D1620P
Sequence	115
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	10/08/08	10/08/08
Time UTC	0332	0654
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	0	0
Sea State (ft)	2-4	2-4
Water Depth (m)	2858	2870

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	166	166	FGSP	1538
SP #	1538	894	LGSP	894

Line	EPR3D1788R
Sequence	116
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	10/08/08	10/08/08
Time UTC	0813	1103
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	7	10
Sea State (ft)	1-3	1-3
Water Depth (m)	2858	2948

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 9 46°56.800N 104 10°06.373W
Reshoot Start time: 10:01 GMT / SP 1121
EOL POS 9 45°06.684N 104 10°06.373W
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhilber
Ch. Observer	R Steinhilber
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	167	167	FGSP	895
SP #	895	1630	LGSP	1539

Line	EPR3D1612P
Sequence	117
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	10/08/08	10/08/08
Time UTC	1230	1547
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	3	2
Sea State (ft)	1-3	< 1m
Water Depth (m)	2865	1947

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[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

Vessel	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	168	168	FGSP	1612
SP #	1627	894	LGSP	894

Line	EPR3D1460P
Sequence	118
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	10/08/08	10/08/08
Time UTC	17:03	20:27
Volume (cu in.)	S1 1650 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	SE 7	E 7
Sea State (ft)	2-4	1-3
Water Depth (m)	3041	2858.9

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 09 40'43.411 N, 104 07'22.995 W
17:07 - Gun String 2 in the water and powered up (SP 1612)
18:55 Powered down turtle sighting
Full Power 19:02 SP 1185
EOL POS 09 38'34.711 N, 104 22'15.557 W
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinha
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	169	169	FGSP	1123
SP #	1173	1539	LGSP	1539

Line	EPR3D1604P
Sequence	119
Direction	82°

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	10/08/08	
Time UTC	23:02	0034
Volume (cu in.)	S1 3300 S23300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	S5	s4
Sea State (ft)	1-3	1-2
Water Depth (m)	2593	2870

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	170	170	FGSP	1537
SP #	1537	894	LGSP	894

Line	EPR3D1452P
Sequence	120
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	11/08/08	11/08/08
Time UTC	01:50	05:01
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	S4	7
Sea State (ft)	1-3	1-3
Water Depth (m)	2955	2868

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 09 40'18.590N 104 09'11.319W
EOL POS 09 38'27.090N 104 22'14.482W
NO EVENTS
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	171	171	FGSP	895
SP #	895	1539	LGSP	1539

Line	EPR3D1604R
Sequence	121
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	11/08/08	11/08/08
Time UTC	0615	0915
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	0	0
Sea State (ft)	1-3	1-3
Water Depth (m)	2869	2873

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 09 41'35.239N 104 22'40.010W
EOL POS 09 43'37.208N 104 09'36.936W
NO EVENTS
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	172	172	FGSP	1538
SP #	1538	894	LGSP	894

Line	EPR3D1444P
Sequence	122
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	11/08/08	11/08/08
Time UTC	1032	1339
Volume (cu in.)	S1 3300 S2 3300	S1 3120 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	6	8
Sea State (ft)	1-3	1-3
Water Depth (m)	2944	2869

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 09 40'07.318N 104 09'08.480W
SP 901 SG14 DISABLED
EOL POS 09 38'17.186N 104 22'13.169W
SHOTPOINTS 906 TO 894 ARE REJECTED
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	173	173	FGSP	769
SP #	769	1539	LGSP	1539

Line	EPR3D1596P
Sequence	123
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	11/08/08	11/08/08
Time UTC	1527	18:58
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	Light	SW 4
Sea State (ft)	2-4	3
Water Depth (m)	2877.5	2870.2

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 09 41' 02.014"N 104 25' 11.813"W
17:18 - 17:27 ~ Power Down for Turtle
17:32 - 17:41 ~ Power Down for Turtle (SPs 1233 - 1260)
EOL POS 09 43'17.835 N, 104 09'34.204 W
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	174	174	FGSP	1539
SP #	1539	894	LGSP	894

Line	EPR3D1436P
Sequence	124
Direction	262°

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	11/08/08	11/08/08
Time UTC	20:11	23:06
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	5-10	E 11
Sea State (ft)	2-4	2-4
Water Depth (m)	2948	2889.0

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 09 39.9N 104 09.0W
EOL POS 09 38'10.269 N, 104 22'12.087 W
(No Misfires Nor No Fires On This Line)
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	175	175	FGSP	895
SP #	895	1539	LGSP	1539

Line	EPR3D1596I
Sequence	125
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	12/08/08	12/08/08
Time UTC	00:24	03:26
Volume (cu in.)	S1 3300 S2 3300	S13300 S23300
Streamer Depth (m)	10	10
Wind (kts)	NW 1-5	N6
Sea State (ft)	2-4	1-3
Water Depth (m)	2874.5	2874

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 09 41°16.954 N, 10422°37.365 W
01:26 S1G11 Disabled
EOL POS 09 43°09.004n 104 09°32.938
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	176	176	FGSP	1682
SP #	1682	751	LGSP	751

Line	EPR3D1428P
Sequence	126
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	12/08/08	12/08/08
Time UTC	0524	0938
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	2	28
Sea State (ft)	1-3	6
Water Depth (m)	3028	2896

Cable	Erased Channels	Noisy/Weak Channels
1		14, 33
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
STARTED RUN IN WITH ONLY SOURCE ONE SHOOTING
SOL POS 09 40'02.636N 104 06'08.923W
06:13 SHOOTING DUAL SOURCE SP 1492
EOL POS 09 37' 34.998"N 104 25' 04.729"W
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	177	177	FGSP	752
SP #	752	1539	LGSP	1539

Line	EPR3D1588P
Sequence	127
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	12/08/08	12/08/08
Time UTC	1056	1435
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	16	20
Sea State (ft)	4-6	4-6
Water Depth (m)	2880	2877

Cable	Erased Channels	Noisy/Weak Channels
1		33
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 09 40'43.550N 104 25'30.334W
SP 894 @ 11:36
13:08 SP 1221 -- gun powered down for whales
13:52 SP 1382 -- guns back to full power
EOL POS 09 42' 58.043"N 104 09' 31.371"W
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	178	178	FGSP	1632
SP #	1632	894	LGSP	894

Line	EPR3D1420P
Sequence	128
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	12/08/08	12/08/08
Time UTC	1614	20:22
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	27	W 20
Sea State (ft)	6 ft	9-12
Water Depth (m)	3017	2914.0

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 09 39' 53.618"N 104 07' 09.769"W
EOL POS 09 37'51.251 N, 104 22'09.375 W
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	179	179	FGSP	895
SP #	895	1539	LGSP	1539

Line	EPR3D1588R
Sequence	129
Direction	82°

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	12/08/08	13/08/08
Time UTC	21:46	0048
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	15	S14
Sea State (ft)	2-4	3-5
Water Depth (m)	2872.9	2877

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[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

Vessel	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	180	180	FGSP	1538
SP #	1538	894	LGSP	894

Line	EPR3D1412P
Sequence	130
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	13/08/08	13/08/08
Time UTC	02:11	0545
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	S19	SW 17
Sea State (ft)	4-6	4-6
Water Depth (m)	2997	2916

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 09 39'30.499N 104 09'03.297W
SHOOTING PORT SOURCE ONLY DUE TO AIR LEAK IN STBD SOURCE
02:36 GUN STRINGS 1+2 ON DECK TO FIX AIR LEAK
03:59 ALL GUNS OUT AND SHOOTING DUAL SOURCE, SP 1220
EOL POS 09 37'42.084N 104 22'08.073W
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	181	181	FGSP	960
SP #	934	1539	LGSP	1539

Line	EPR3D1268P
Sequence	131
Direction	82°

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	13/08/08	13/08/08
Time UTC	0708	0959
Volume (cu in.)	S1 3300 S2 3300	S1 3260 S2 2940
Streamer Depth (m)	10	10
Wind (kts)	NW 15	NW 11
Sea State (ft)	3-5	3
Water Depth (m)	2880	2959

Cable	Erased Channels	Noisy/Weak Channels
1		33
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 09 34°52.075N 10420°55.515W
SP 960 FGSP - Streamer 4 Birds 18, 19, 20, 21 still running deep 07:15
SP 980 - All birds returned to nominal depth 07:20
SP 1386 S1 GUN 5 Disabled, re-evaluation of dropout sheet lead to disabling spare, shots affected 1321 - 1386
EOL POS 09 36°34.368N 104 08°37.186W
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	182	184	FGSP	1538
SP #	1538	894	LGSP	184

Line	EPR3D1476P
Sequence	132
Direction	262°

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	13/08/08	13/08/08
Time UTC	1143	1506
Volume (cu in.)	S1 3300 S2 3300	S1 3260 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	S 13	SE 21
Sea State (ft)	3	3
Water Depth (m)	2873	2842

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 09 40'45.813N 104 09'13.915W
12:06 SP 1464 S1 GUN 3 DISABLED DUE TO MISFIRES + COMM ERRORS
12:10 Syntrak Buffer Full - SP 1452 - Reelchange to #183 SP 1451 FSP NEW REEL 183
13:02 Syntrak Buffer Full - SP 1494 - Reelchange to #184 SP 1291 FSP NEW REEL 184
EOL POS 09 38'56.252N 104 22'18.601W
Line Status:

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

Time UTC	FILE	SP	Tape	Description
1150	23	1517	182	S1 GUN 3 + GUN 1 NO FIRE
1152	31	1509	182	S1 GUN 3 NO FIRE
1153	34	1506	182	S2 GUN 12 NO FIRE
1155	40	1501	182	S1 GUN 1 NO FIRE
1156	42	1500	182	S1 GUN 3 COMM ERROR
1156	43	1499	182	S1 GUN 3 COMM ERROR
1157	44	1496	182	S1 GUN 3 COMM ERROR
1157	45	1495	182	S1 GUN 3 COMM ERROR
1157	47	1493	182	S1 GUN 3 COMM ERROR + NO FIRE
1158	50	1490	182	S1 GUN 3 COMM ERROR
1159	51	1489	182	S1 GUN 3 NO FIRE
1200	54	1486	182	S1 GUN 3 COMM ERROR
1200	55	1485	182	S1 GUN 3 COMM ERROR
1200	56	1484	182	S1 GUN 3 COMM ERROR
1201	57	1483	182	S1 GUN 3 COMM ERROR
1204	67	1473	182	S1 GUN 3 NO FIRE
1205	70	1470	182	S1 GUN 3 COMM ERROR
1206	71	1466	182	S1 GUN 3 COMM ERROR
1206	74	1464	182	S1 GUN 3 DISABLED
1210	86	1452	182	SYNTRAK BUFFER FULL - NEW REEL STARTED #183
1212	5	1446	183	S2 GUN 11 + GUN 12 NO FIRE
1227	50	1401	183	S1 GUN 1 NO FIRE
1239	87	1364	183	S2 GUN 12 NO FIRE
1239	89	1362	183	S2 GUN 12 NO FIRE
1240	93	1358	183	S2 GUN 12 NO FIRE
1251	127	1324	183	S2 GUN 12 NO FIRE
1253	133	1320	183	S2 GUN 12 NO FIRE
1256	141	1310	183	S2 GUN 12 NO FIRE
1300	155	1296	183	S2 GUN 12 NO FIRE
1302	158	1294	183	SYNTRAK BUFFER FULL - NEW REEL STARTED #184
1310	26	1266	184	S2 GUN 12 NO FIRE
1312	32	1260	184	S2 GUN 12 NO FIRE
1315	42	1250	184	S2 GUN 12 NO FIRE
1322	66	1226	184	S2 GUN 12 NO FIRE
1342	128	1164	184	S2 GUN 11 + GUN 12 NO FIRE
1348	146	1146	184	S2 GUN 12 NO FIRE
1400	185	1107	184	S1 GUN 1 NO FIRE
1410	217	1075	184	S1 GUN 1 NO FIRE
1416	236	1056	184	S2 GUN 12 NO FIRE
1422	256	1036	184	S2 GUN 12 NO FIRE
1425	266	1026	184	S2 GUN 12 NO FIRE
1439	311	981	184	S1 GUN 1 NO FIRE
1453	356	936	184	S2 GUN 12 NO FIRE
1505	396	896	184	S2 GUN 12 NO FIRE

[illegible]

Observers Log

Vessel	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	185	185	FGSP	895
SP #	895	1539	LGSP	1539

Line	EPR3D1276P
Sequence	133
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	13/08/08	13/08/08
Time UTC	1634	19:28
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	NW 16	SSW 14
Sea State (ft)	3-5	2-4
Water Depth (m)	2932	2944

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 09 35' 51.764"N 104 21' 42.705"W
EOL POS 09 36'42.976 N, 104 08'36.382 W
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinha
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	186	186	FGSP	1539
SP #	1539	894	LGSP	894

Line	EPR3D1404P
Sequence	134
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	13/08/08	13/08/08
Time UTC	21:19	0024
Volume (cu in.)	S1 3300 S2 3300	S13300 S23300
Streamer Depth (m)	10	10
Wind (kts)	SW20	SW16
Sea State (ft)	2-4	2-4
Water Depth (m)	2942	2927

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	187	187	FGSP	949
SP #	895	1800	LGSP	1800

Line	EPR3D0972P
Sequence	135
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	14/08/08	14/08/08
Time UTC	02:56	07:44
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	S11	NW 11
Sea State (ft)	4-6	3-5
Water Depth (m)	2939	3054

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 09 28'47.102 104 20'50.973
SOL - Firing STB Source only Deploying Port source S1 G17 14 disabledat SOL due to multiple no fires Both Spares enabled
03:13 - Port source in water, shooting full power. SP 949

EOL POS 09 31'21.284N 104 02'28.838W

Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	188	188	FGSP	1018
SP #	1018	1455	LGSP	1455

Line	Transit3
Sequence	136
Direction	318.5

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	14/08/08	14/08/08
Time UTC	0816	1035
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	E 13	SE 15
Sea State (ft)	3-5	3-5
Water Depth (m)	2971	3060

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 09 32'34.878N 104 01'18.267W
EOL POS 09 39'13.718N 104 07'15.263W
NO EVENTS
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	189	189	FGSP	1551
SP #	1551	894	LGSP	894

Line	EPR3D1396P
Sequence	137
Direction	262°

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	14/08/08	14/08/08
Time UTC	1057	1358
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	S 18	S 18
Sea State (ft)	3-5	2-4
Water Depth (m)	2929	2927

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 09 39'11.807N 104 08'44.481W
13:00 Local Marine Traffic causing minor noise on all streamers
EOL POS 09 37'20.114N 104 22'04.943W
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhilber
Ch. Observer	R Steinhilber
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	190	190	FGSP	895
SP #	895	1539	LGSP	1539

Line	EPR3D1580P
Sequence	138
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	14/08/08	14/08/08
Time UTC	1547	1903
Volume (cu in.)	S1 3300 S2 3300	S13300 S23300
Streamer Depth (m)	10	10
Wind (kts)	NW 15	SE10
Sea State (ft)	3-5	6-8
Water Depth (m)	2871	2866

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinha
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	191	191	FGSP	1538
SP #	1538	894	LGSP	894

Line	EPR3D1388P
Sequence	139
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	14/08/08	14/08/08
Time UTC	2035	2336
Volume (cu in.)	S1 3300 S2 3300	S13300 S23300
Streamer Depth (m)	10	10
Wind (kts)	S9	S12
Sea State (ft)	6-8	4-6
Water Depth (m)	2947.9	2946

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	192	192	FGSP	895
SP #	895	1539	LGSP	1539

Line	EPR3D1596R
Sequence	140
Direction	82°

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μB				
EOL Cable Noise, μB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	08/14/08	08/14/08
Time UTC	01:13	04:15
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S23300
Streamer Depth (m)	10	10
Wind (kts)	S10	S4
Sea State (ft)	1-3	1-3
Water Depth (m)	2875	2871

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP- First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinha
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	193	193	FGSP	1538
SP #	1538	894	LGSP	894

Line	EPR3D1380P
Sequence	141
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	15/08/08	15/08/08
Time UTC	0558	0915
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	S 13	SW 16
Sea State (ft)	2-4	2-4
Water Depth (m)	2949	2938

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	194	194	FGSP	895
SP #	895	1288	LGSP	1288

Line	EPR3D1572P
Sequence	142
Direction	82

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	15/08/08	15/08/08
Time UTC	1042	1234
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	S 2-5	sw 4
Sea State (ft)	2-4	1-3
Water Depth (m)	2868	2636

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 09 40'52.695N 104 23'33.917W
EOL POS 09 41'33.124N 104 14'31.289W
NO EVENTS
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	McKiernan
Observers	Eaton

	SOL	EOL		
Tape #	195	195	FGSP	1341
SP #	1341	1005	LGSP	1005

Line	AXIS5
Sequence	143
Direction	171.2

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	15/08/08	15/08/08
Time UTC	1240	1418
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	SW 2	SW 5
Sea State (ft)	1-3	1-2
Water Depth (m)	2692	2850

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 09 41' 15.943"N 104 14' 16.656"W
EOL POS 09 34'31.582N 104 13'06.436W
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	196	196	FGSP	1539
SP #	1539	894	LGSP	894

Line	EPR3D1392P
Sequence	144
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	15/08/08	15/08/08
Time UTC	17:37	20:52
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	14	14
Sea State (ft)	2-4	2-4
Water Depth (m)	2868	2944.6

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 09 40'52.695n 104 08'55.104w
EOL POS 09 36'51.640 N, 104 22'00.900 W
Line Status:

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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinha
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	197	197	FGSP	895
SP #	895	1539	LGSP	1539

Line	EPR3D1788I
Sequence	145
Direction	82°

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, μ B				
EOL Cable Noise, μ B				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	15/08/08	08/15/08
Time UTC	23:36	02:42
Volume (cu in.)	S1 3300 S2 3300	S13300 S23300
Streamer Depth (m)	10	10
Wind (kts)	S10	N7
Sea State (ft)	2-4	1-3
Water Depth (m)	28809	2855

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

[illegible]

Abbreviations	
SOL/EOL - Start/End of Line	LGSP - Last Good SP
FGSP - First Good SP	LCSP - Last Chargeable SP
FCSP - First Chargeable SP	LFSP - 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	Langseth
Client	Mutter -- LDEO
Area	East Pacific Rise
Job Number	MGL0812

Party Chief	R Steinhaus
Ch. Observer	R Steinhaus
Sen. Observer	
Observers	

	SOL	EOL		
Tape #	199	199	FGSP	1538
SP #	1538	1038	LGSP	1038

Line	EPR3D2028I
Sequence	146
Direction	262

Streamer Parameters				
	1	2	3	4
Length	6000	6000	6000	6000
Auxiliaries				
Shotpoint Interval:	37.5	37.5	37.5	37.5
Offset CS - CFG	190	190	190	190
Group Interval:	12.5	12.5	12.5	12.5
Number of channels	468	468	468	468
SOL Cable Noise, µB				
EOL Cable Noise, µB				

Source Parameters	
Total Volume	3300in3 / 3300in3
Work Pressure	2000psi +/- 100psi
Dual Source	yes
Depth	7.5m
Source Separation	75m
Center Source to	
Nav. Antenna	

Recording Parameters	
Record Length	10s
Total recording delay	0
Sample Rate	2ms
Polarity	
Low-Cut	2Hz /12DB
Hi-Cut	206Hz/276 DB
Tape Format	SEGD rev. 1

Description	SOL/FQCSP	EOL/LQCSP
FSID		
Date dd/mm/yy	16/08/08	16/08/08
Time UTC	0433	0656
Volume (cu in.)	S1 3300 S2 3300	S1 3300 S2 3300
Streamer Depth (m)	10	10
Wind (kts)	s14	s 15
Sea State (ft)	2-4	2-4
Water Depth (m)	2194	2824

Cable	Erased Channels	Noisy/Weak Channels
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
Aux. 16: Port Outer hydrophone	

General / Line Comments
SOL POS 09 51 56.774N 104 10 48.762W
SHOTS 1522-1480 Not Recorded due to Syntrak not being checked for recording
EOL POS 09 50'40.067N 104 20 59.535W
Line Status:

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]