

Observers Log	
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Vessel	Marcus G. Langseth
Client	Glenn Spinelli
Area	South Mexico Margin
Job Number	MGL2514

Shift	00:00-12:00	12:00-24:00
Science Officer	Cody Bahlau	
Acquisition	Jose Angel Ramirez Najera	Gilles Guerin
Navigation	Cody Bahlau	Aaron Martin

LINE	MGL2514001W01
SEQUENCE	1
DIRECTION	206.3

	SP#	FFID	Raw SegD
SOL	1491	1	NA
EOL	4003	2513	NA

Streamer Parameters				
	1	2	3	4
Length (m)	4050			
Auxiliaries	12			
Shotpoint Interval: (m)	25			
Offset COS - CNG (m)	144.65			
Group Interval: (m)	6.25			
Number of channels	648			
Streamer Depth (m)	4			

Source Parameters	
Total Volume	GI guns - 90 in3
Work Pressure	1900psi +/- 100psi
Dual Source	no
Depth	3 m
Sub-array Separation	0
COS to COS	single source

Recording Parameters	
Record Length	8
Total recording delay	0
Sample Rate	0.5 ms
Polarity	SEGD standard
Low-Cut	3Hz analog
Hi-Cut	200Hz, 270dB/octave
File Format	SEGD

Description	SOL/FGSP	EOL/LGSP
SP	1491	4003
Date	12/04/2025	12/05/2025
Time UTC	23:08	06:38
Volume	90 in3	90 in3 in3
Wind	W 4 kts	W 4.5 kts kts
Sea State	0.5 m	0.5 m
Water Depth	4230 m	3991 m

Abbreviations
SOL/EOL : Start/End of Line
FGSP/LGSP : First/Last Good SP
SnGm : array/string n, gun m

Dead/bad channels

General / Line Comments
First sequence in Western part of survey area (Sequences 1-6, W01-W06)
Orca started sending triggers at 21:17 with SP 1002, but because of configuration issues, no SEG D were recorded until SP1491

[illegible]

Observers Log	
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Vessel	Marcus G. Langseth
Client	Glenn Spinelli
Area	South Mexico Margin
Job Number	MGL2514

Shift	00:00-12:00	12:00-24:00
Science Officer	Cody Bahlau	
Acquisition	Jose Angel Ramirez Najera	Gilles Guerin
Navigation	Cody Bahlau	Aaron Martin

LINE	MGL2514002W02
SEQUENCE	2
DIRECTION	180.0

	SP#	FFID	Raw SegD
SOL	5015	2514	NA
EOL	5680	3179	NA

Streamer Parameters				
	1	2	3	4
Length (m)	4050			
Auxiliaries	12			
Shotpoint Interval: (m)	25			
Offset COS - CNG (m)	144.65			
Group Interval: (m)	6.25			
Number of channels	648			
Streamer Depth (m)	4			

Source Parameters	
Total Volume	GI guns - 90 in3
Work Pressure	1900psi +/- 100psi
Dual Source	no
Depth	3 m
Sub-array Separation	0
COS to COS	single source

Recording Parameters	
Record Length	8
Total recording delay	0
Sample Rate	0.5 ms
Polarity	SEGD standard
Low-Cut	3Hz analog
Hi-Cut	200Hz, 270dB/octave
File Format	SEGD

Description	SOL/FGSP	EOL/LGSP
SP	5015	5680
Date	12/05/2025	12/05/2025
Time UTC	06:40	08:35
Volume	90 in3	90 in3 in3
Wind	W 5.9 kts	W 4 kts
Sea State	0.5 m	0.5 m
Water Depth	3900 m	3590 m

Abbreviations
SOL/EOL : Start/End of Line
FGSP/LGSP : First/Last Good SP
SnGm : array/string n, gun m

Dead/bad channels

[illegible]

[illegible]

Observers Log

Vessel	Marcus G. Langseth
Client	Glenn Spinelli
Area	South Mexico Margin
Job Number	MGL2514

Shift	00:00-12:00	12:00-24:00
Science Officer	Cody Bahlau	
Acquisition	Jose Angel Ramirez Najera	Gilles Guérin
Navigation	Cody Bahlau	Aaron Martin

LINE	MGL2514003W03
SEQUENCE	3
DIRECTION	120.0

	SP#	FFID	Raw SegD
SOL	6025	3180	NA
EOL	8295	5434	NA

Streamer Parameters				
	1	2	3	4
Length (m)	4050			
Auxiliaries	12			
Shotpoint Interval: (m)	25			
Offset COS - CNG (m)	144.65			
Group Interval: (m)	6.25			
Number of channels	648			
Streamer Depth (m)	4			

Source Parameters	
Total Volume	GI guns - 90 in3
Work Pressure	1900psi +/- 100psi
Dual Source	no
Depth	3 m
Sub-array Separation	0
COS to COS	single source

Recording Parameters	
Record Length	8
Total recording delay	0
Sample Rate	0.5 ms
Polarity	SEGD standard
Low-Cut	3Hz analog
Hi-Cut	200Hz, 270dB/octave
File Format	SEGD

Description	SOL/FGSP	EOL/LGSP
SP	6025	8295
Date	12/05/2025	12/05/2025
Time UTC	08:37	15:23
Volume	90 in3	90 in3
Wind	W 5.9 kts	2.8 kts
Sea State	0.5 m	0.5 m
Water Depth	3900 m	3539 m

Abbreviations
SOL/EOL: Start/End of Line
FGSP/LGSP: First/Last Good SP
SnGm: array/string n, gun m

Dead/bad channels

General / Line Comments
Streamer communication errors from SP 7391 to SP 7406, 17 shots missed.
Gun 01 is not giving the expected amplitude, possible airleak.
SP 6023-6024 triggered/recorded by Orca but not by Seal at start

[illegible]

Observers Log

Vessel	Marcus G. Langseth
Client	Glenn Spinelli
Area	South Mexico Margin
Job Number	MGL2514

Shift	00:00-12:00	12:00-24:00
Science Officer	Cody Bahlau	
Acquisition	Jose Angel Ramirez Najera	Gilles Guerin
Navigation	Cody Bahlau	Aaron Martin

LINE	MGL2514004W04
SEQUENCE	4
DIRECTION	25.7

	SP#	FFID	Raw SegD
SOL	9058	5435	NA
EOL	13634	9994	NA

Streamer Parameters				
	1	2	3	4
Length (m)	4050			
Auxiliaries	12			
Shotpoint Interval: (m)	25			
Offset COS - CNG (m)	144.65			
Group Interval: (m)	6.25			
Number of channels	648			
Streamer Depth (m)	4			

Source Parameters	
Total Volume	GI guns - 90 in3
Work Pressure	1900psi +/- 100psi
Dual Source	no
Depth	3 m
Sub-array Separation	0
COS to COS	single source

Recording Parameters	
Record Length	8
Total recording delay	0
Sample Rate	0.5 ms
Polarity	SEGD standard
Low-Cut	3Hz analog
Hi-Cut	200Hz, 270dB/octave
File Format	SEGD

Description	SOL/FGSP	EOL/LGSP
SP	9058	13634
Date	12/05/2025	12/06/2025
Time UTC	15:32	04:13
Volume	90 in3	90 in3
Wind	W2.5 kts	W 7 kts
Sea State	1 m	0.5 m
Water Depth	3700 m	1655 m

Abbreviations
SOL/EOL: Start/End of Line
FGSP/LGSP: First/Last Good SP
SnGm: array/string n, gun m

Dead/bad channels

General / Line Comments
Gun 01 is not giving the expected amplitude, possible airleak.
1 shutdown for turtle detection (SP 9858-9874 missed during shutdown)

[illegible]

Observers Log

Vessel	Marcus G. Langseth
Client	Glenn Spinelli
Area	South Mexico Margin
Job Number	MGL2514

Shift	00:00-12:00	12:00-24:00
Science Officer	Cody Bahlau	
Acquisition	Jose Angel Ramirez Najera	Gilles Guerin
Navigation	Cody Bahlau	Aaron Martin

LINE	MGL2514005W05
SEQUENCE	5
DIRECTION	198.5

	SP#	FFID	Raw SegD
SOL	13971	9995	NA
EOL	15775	11799	NA

Streamer Parameters				
	1	2	3	4
Length (m)	4050			
Auxiliaries	12			
Shotpoint Interval: (m)	25			
Offset COS - CNG (m)	144.65			
Group Interval: (m)	6.25			
Number of channels	648			
Streamer Depth (m)	4			

Source Parameters	
Total Volume	GI guns - 90 in3
Work Pressure	1900psi +/- 100psi
Dual Source	no
Depth	3 m
Sub-array Separation	0
COS to COS	single source

Recording Parameters	
Record Length	8
Total recording delay	0
Sample Rate	0.5 ms
Polarity	SEGD standard
Low-Cut	3Hz analog
Hi-Cut	200Hz, 270dB/octave
File Format	SEGD

Description	SOL/FGSP	EOL/LGSP
SP	13971	15775
Date	12/06/2025	12/06/2025
Time UTC	05:06	10:22
Volume	90 in3	90 in3
Wind	W 8 kts	W3.7 kts
Sea State	0.5 m	0.5 m
Water Depth	1360 m	4822 m

Abbreviations
SOL/EOL: Start/End of Line
FGSP/LGSP: First/Last Good SP
SnGm: array/string n, gun m

Dead/bad channels

General / Line Comments
Strong turn noise at SOL
Gun 01 is not giving the expected amplitude, possible airleak.

[illegible]

Observers Log

Vessel	Marcus G. Langseth
Client	Glenn Spinelli
Area	South Mexico Margin
Job Number	MGL2514

Shift	00:00-12:00	12:00-24:00
Science Officer	Cody Bahlau	
Acquisition	Jose Angel Ramirez Najera	Gilles Guerin
Navigation	Cody Bahlau	Aaron Martin

LINE	MGL2514006W06
SEQUENCE	6
DIRECTION	290.0

	SP#	FFID	Raw SegD
SOL	16393	11801	NA
EOL	18611	14019	NA

Streamer Parameters				
	1	2	3	4
Length (m)	4050			
Auxiliaries	12			
Shotpoint Interval: (m)	25			
Offset COS - CNG (m)	144.65			
Group Interval: (m)	6.25			
Number of channels	648			
Streamer Depth (m)	4			

Source Parameters	
Total Volume	GI guns - 90 in3
Work Pressure	1900psi +/- 100psi
Dual Source	no
Depth	3 m
Sub-array Separation	0
COS to COS	single source

Recording Parameters	
Record Length	8
Total recording delay	0
Sample Rate	0.5 ms
Polarity	SEGD standard
Low-Cut	3Hz analog
Hi-Cut	200Hz, 270dB/octave
File Format	SEGD

Description	SOL/FGSP	EOL/LGSP
SP	16393	18611
Date	12/06/2025	12/06/2025
Time UTC	12:07	19:24
Volume	90 in3	90 in3
Wind	5.4 kts	
Sea State	0.5 m	.5 m
Water Depth	5224 m	

Abbreviations
SOL/EOL: Start/End of Line
FGSP/LGSP: First/Last Good SP
SnGm: array/string n, gun m

Dead/bad channels

General / Line Comments
Gun 01 is not giving the expected amplitude, possible airleak.
Orca did not record SP 16392/FFID 11800 - FGSP 16393 - FFID 11800 discarded

[illegible]

Observers Log

Vessel	Marcus G. Langseth
Client	Glenn Spinelli
Area	South Mexico Margin
Job Number	MGL2514

Shift	00:00-12:00	12:00-24:00
Science Officer	Cody Bahlau	
Acquisition	Jose Angel Ramirez Najera	Gilles Guérin
Navigation	Cody Bahlau	Aaron Martin

LINE	MGL2514007E01
SEQUENCE	7
DIRECTION	205.7

	SP#	FFID	Raw SegD
SOL	19870	14046	NA
EOL	25276	19446	NA

Streamer Parameters				
	1	2	3	4
Length (m)	4050			
Auxiliaries	12			
Shotpoint Interval: (m)	25			
Offset COS - CNG (m)	117.65			
Group Interval: (m)	6.25			
Number of channels	648			
Streamer Depth (m)	4			

Source Parameters	
Total Volume	GI guns - 90 in3
Work Pressure	1900psi +/- 100psi
Dual Source	no
Depth	3 m
Sub-array Separation	0
COS to COS	single source

Recording Parameters	
Record Length	8
Total recording delay	0
Sample Rate	0.5 ms
Polarity	SEGD standard
Low-Cut	3Hz analog
Hi-Cut	200Hz, 270dB/octave
File Format	SEGD

Description	SOL/FGSP	EOL/LGSP
SP	19870	25276
Date	12/09/2025	12/10/2025
Time UTC	23:36	15:06
Volume	90 in3	90 in3
Wind	W 10 kts	3.4 kts
Sea State	1 m	1m m
Water Depth	2000 m	3500 m

Abbreviations
SOL/EOL: Start/End of Line
FGSP/LGSP: First/Last Good SP
SnGm: array/string n, gun m

Dead/bad channels

General / Line Comments
First sequence in Eastern part of survey area (Sequences 7-14, lines E01-E08)
Gun deployed 27m further for all following sequences. Nominal COS-CNG is now 117.65m
Because of bad ethernet configuration, Seal did not capture headers generated by orca at SOL. FFID 14020-14045 (SP 19844-19869) were discarded
SP 19873-19878 were also lost while finalizing configuration

[illegible]

Observers Log

Vessel	Marcus G. Langseth
Client	Glenn Spinelli
Area	South Mexico Margin
Job Number	MGL2514

Shift	00:00-12:00	12:00-24:00
Science Officer	Cody Bahlau	
Acquisition	Jose Angel Ramirez Najera	Gilles Guerin
Navigation	Cody Bahlau	Aaron Martin

LINE	MGL2514008E02
SEQUENCE	8
DIRECTION	333.1

	SP#	FFID	Raw SegD
SOL	25838	19447	NA
EOL	26900	20509	NA

Streamer Parameters				
	1	2	3	4
Length (m)	4050			
Auxiliaries	12			
Shotpoint Interval: (m)	25			
Offset COS - CNG (m)	117.65			
Group Interval: (m)	6.25			
Number of channels	648			
Streamer Depth (m)	4			

Source Parameters	
Total Volume	GI guns - 90 in3
Work Pressure	1900psi +/- 100psi
Dual Source	no
Depth	3 m
Sub-array Separation	0
COS to COS	single source

Recording Parameters	
Record Length	8
Total recording delay	0
Sample Rate	0.5 ms
Polarity	SEGD standard
Low-Cut	3Hz analog
Hi-Cut	200Hz, 270dB/octave
File Format	SEGD

Description	SOL/FGSP	EOL/LGSP
SP	25838	26900
Date	12/10/2025	12/10/2025
Time UTC	16:47	19:47
Volume	90 in3	90 in3
Wind	2.7 kts	3.4 kts
Sea State	1 m	1 m
Water Depth	3352 m	3510 m

Abbreviations
SOL/EOL: Start/End of Line
FGSP/LGSP: First/Last Good SP
SnGm: array/string n, gun m

Dead/bad channels

General / Line Comments
Strong noise at SOL

[illegible]

Observers Log

Vessel	Marcus G. Langseth
Client	Glenn Spinelli
Area	South Mexico Margin
Job Number	MGL2514

Shift	00:00-12:00	12:00-24:00
Science Officer	Cody Bahlau	
Acquisition	Jose Angel Ramirez Najera	Gilles Guerin
Navigation	Cody Bahlau	Aaron Martin

LINE	MGL2514009E03
SEQUENCE	9
DIRECTION	84.3

	SP#	FFID	Raw SegD
SOL	26843	20510	NA
EOL	28561	22228	NA

Streamer Parameters				
	1	2	3	4
Length (m)	4050			
Auxiliaries	12			
Shotpoint Interval: (m)	25			
Offset COS - CNG (m)	117.65			
Group Interval: (m)	6.25			
Number of channels	648			
Streamer Depth (m)	4			

Source Parameters	
Total Volume	GI guns - 90 in3
Work Pressure	1900psi +/- 100psi
Dual Source	no
Depth	3 m
Sub-array Separation	0
COS to COS	single source

Recording Parameters	
Record Length	8
Total recording delay	0
Sample Rate	0.5 ms
Polarity	SEGD standard
Low-Cut	3Hz analog
Hi-Cut	200Hz, 270dB/octave
File Format	SEGD

Description	SOL/FGSP	EOL/LGSP
SP	26843	28561
Date	12/10/2025	12/11/2025
Time UTC	21:18	02:19
Volume	90 in3	90 in3
Wind	NW 4 kts	N 0.5 kts
Sea State	1 m	0.5 m
Water Depth	3480 m	3565 m

Abbreviations
SOL/EOL: Start/End of Line
FGSP/LGSP: First/Last Good SP
SnGm: array/string n, gun m

Dead/bad channels

[illegible]

[illegible]

Observers Log

Vessel	Marcus G. Langseth
Client	Glenn Spinelli
Area	South Mexico Margin
Job Number	MGL2514

Shift	00:00-12:00	12:00-24:00
Science Officer	Cody Bahlau	
Acquisition	Jose Angel Ramirez Najera	Gilles Guerin
Navigation	Cody Bahlau	Aaron Martin

LINE	MGL2514010E04
SEQUENCE	10
DIRECTION	330.3

	SP#	FFID	Raw SegD
SOL	29342	22229	NA
EOL	30757	23643	NA

Streamer Parameters				
	1	2	3	4
Length (m)	4050			
Auxiliaries	12			
Shotpoint Interval: (m)	25			
Offset COS - CNG (m)	117.65			
Group Interval: (m)	6.25			
Number of channels	648			
Streamer Depth (m)	4			

Source Parameters	
Total Volume	GI guns - 90 in3
Work Pressure	1900psi +/- 100psi
Dual Source	no
Depth	3 m
Sub-array Separation	0
COS to COS	single source

Recording Parameters	
Record Length	8
Total recording delay	0
Sample Rate	0.5 ms
Polarity	SEGD standard
Low-Cut	3Hz analog
Hi-Cut	200Hz, 270dB/octave
File Format	SEGD

Description	SOL/FGSP	EOL/LGSP
SP	29342	30757
Date	12/11/2025	12/11/2025
Time UTC	03:37	07:34
Volume	90 in3	90 in3
Wind	NW 3 kts	2.6 kts
Sea State	1 m	1 m
Water Depth	3575 m	3679 m

Abbreviations
SOL/EOL: Start/End of Line
FGSP/LGSP: First/Last Good SP
SnGm: array/string n, gun m

Dead/bad channels

General / Line Comments
Strong turn noise at SOL
Several files with incorrect retrieval warning, because of speed in strong current. No error found in files
Two empty files were generated at end of sequence. FFID 23644 and 23645 were discarded

Time UTC	FFID	SP	Description
03:37	22229	29342	SOL MGL2514010E04 - 2 guns - 90 in3
03:39		29352	SP missed when resetting operation alarm
04:20	22483	29597	SP flagged as incorrect retrieval. SEGD checked OK
04:21	22486	29600	SP flagged as incorrect retrieval. SEGD checked OK
04:21	22488	29602	SP flagged as incorrect retrieval. SEGD checked OK
04:21	22490	29604	SP flagged as incorrect retrieval. SEGD checked OK
04:22	22492	29606	SP flagged as incorrect retrieval. SEGD checked OK
04:22	22495	29609	SP flagged as incorrect retrieval. SEGD checked OK
04:41	22611	29725	SP flagged as incorrect retrieval. SEGD checked OK
04:42	22616	29730	SP flagged as incorrect retrieval. SEGD checked OK
07:34	23643	30757	EOL MGL2514010E04 - 2 guns - 90 in3

Observers Log	
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Vessel	Marcus G. Langseth
Client	Glenn Spinelli
Area	South Mexico Margin
Job Number	MGL2514

Shift	00:00-12:00	12:00-24:00
Science Officer	Cody Bahlau	
Acquisition	Jose Angel Ramirez Najera	Gilles Guerin
Navigation	Cody Bahlau	Aaron Martin

LINE	MGL2514011E05
SEQUENCE	11
DIRECTION	63.0

	SP#	FFID	Raw SegD
SOL	31383	23646	NA
EOL	34606	26869	NA

Streamer Parameters				
	1	2	3	4
Length (m)	4050			
Auxiliaries	12			
Shotpoint Interval: (m)	25			
Offset COS - CNG (m)	117.65			
Group Interval: (m)	6.25			
Number of channels	648			
Streamer Depth (m)	4			

Source Parameters	
Total Volume	GI guns - 90 in3
Work Pressure	1900psi +/- 100psi
Dual Source	no
Depth	3 m
Sub-array Separation	0
COS to COS	single source

Recording Parameters	
Record Length	8
Total recording delay	0
Sample Rate	0.5 ms
Polarity	SEGD standard
Low-Cut	3Hz analog
Hi-Cut	200Hz, 270dB/octave
File Format	SEGD

Description	SOL/FGSP	EOL/LGSP
SP	31383	34606
Date	12/11/2025	12/11/2025
Time UTC	09:30	18:54
Volume	90 in3	90 in3
Wind	NW 3 kts	N 1 kts
Sea State	1 m	0.5 m
Water Depth	3575 m	5300 m

Abbreviations
SOL/EOL : Start/End of Line
FGSP/LGSP : First/Last Good SP
SnGm : array/string n, gun m

Dead/bad channels

[illegible]

Time UTC	FFID	SP	Description
9:30	23646	31383	SOL MGL2514011E05 - 2 guns - 90 in3
14:49	25496 - 25498	33233 - 33235	Strong noise, some probable causes (heavy pitche, swell, heave, etc)
18:54	26869	34606	EOL MGL2514011E05 - 2 guns - 90 in3

Observers Log

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Job Number	MGL2514

Shift	00:00-12:00	12:00-24:00
Science Officer	Cody Bahlau	
Acquisition	Jose Angel Ramirez Najera	Gilles Guerin
Navigation	Cody Bahlau	Aaron Martin

LINE	MGL2514012E06
SEQUENCE	12
DIRECTION	109.6

	SP#	FFID	Raw SegD
SOL	35520	26870	NA
EOL	37017	28367	NA

Streamer Parameters				
	1	2	3	4
Length (m)	4050			
Auxiliaries	12			
Shotpoint Interval: (m)	25			
Offset COS - CNG (m)	117.65			
Group Interval: (m)	6.25			
Number of channels	648			
Streamer Depth (m)	4			

Source Parameters	
Total Volume	GI guns - 90 in3
Work Pressure	1900psi +/- 100psi
Dual Source	no
Depth	3 m
Sub-array Separation	0
COS to COS	single source

Recording Parameters	
Record Length	9
Total recording delay	0
Sample Rate	0.5 ms
Polarity	SEGD standard
Low-Cut	3Hz analog
Hi-Cut	200Hz, 270dB/octave
File Format	SEGD

Description	SOL/FGSP	EOL/LGSP
SP	35520	37017
Date	12/11/2025	12/11/2025
Time UTC	19:00:32	23:42:17
Volume	90 in3	90 in3
Wind	NW 3 kts	W 9 kts
Sea State	0.5 m	1 m
Water Depth	3575 m	5280 m

Abbreviations
SOL/EOL: Start/End of Line
FGSP/LGSP: First/Last Good SP
SnGm: array/string n, gun m

Dead/bad channels

General / Line Comments
New record length because of water depth in trench: 9s
SP 35525 and 35527 (FFID 26875,26877) incomplete shortly after start of line, likely due to speed too high for new record length

[illegible]

Observers Log	
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Job Number	MGL2514

Shift	00:00-12:00	12:00-24:00
Science Officer	Cody Bahlau	
Acquisition	Jose Angel Ramirez Najera	Gilles Guerin
Navigation	Cody Bahlau	Aaron Martin

LINE	MGL2514013E07
SEQUENCE	13
DIRECTION	247.7

	SP#	FFID	Raw SegD
SOL	37273	28368	NA
EOL	38451	29546	NA

Streamer Parameters				
	1	2	3	4
Length (m)	4050			
Auxiliaries	12			
Shotpoint Interval: (m)	25			
Offset COS - CNG (m)	117.65			
Group Interval: (m)	6.25			
Number of channels	648			
Streamer Depth (m)	4			

Source Parameters	
Total Volume	GI guns - 90 in3
Work Pressure	1900psi +/- 100psi
Dual Source	no
Depth	3 m
Sub-array Separation	0
COS to COS	single source

Recording Parameters	
Record Length	9
Total recording delay	0
Sample Rate	0.5 ms
Polarity	SEGD standard
Low-Cut	3Hz analog
Hi-Cut	200Hz, 270dB/octave
File Format	SEGD

Description	SOL/FGSP	EOL/LGSP
SP	37273	38451
Date	12/12/2025	12/12/2025
Time UTC	00:58	04:55
Volume	90 in3	90 in3
Wind	W 8 kts	W 7 kts
Sea State	0.5 m	1 m
Water Depth	5330 m	4400 m

Abbreviations
SOL/EOL: Start/End of Line
FGSP/LGSP: First/Last Good SP
SnGm: array/string n, gun m

Dead/bad channels

[illegible]

[illegible]

Observers Log	
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Vessel	Marcus G. Langseth
Client	Glenn Spinelli
Area	South Mexico Margin
Job Number	MGL2514

Shift	00:00-12:00	12:00-24:00
Science Officer	Cody Bahlau	
Acquisition	Jose Angel Ramirez Najera	Gilles Guerin
Navigation	Cody Bahlau	Aaron Martin

LINE	MGL2514014E08
SEQUENCE	14
DIRECTION	24.0

	SP#	FFID	Raw SegD
SOL	39192	29547	NA
EOL	40940	31295	NA

Streamer Parameters				
	1	2	3	4
Length (m)	4050			
Auxiliaries	12			
Shotpoint Interval: (m)	25			
Offset COS - CNG (m)	117.65			
Group Interval: (m)	6.25			
Number of channels	648			
Streamer Depth (m)	4			

Source Parameters	
Total Volume	GI guns - 90 in3
Work Pressure	1900psi +/- 100psi
Dual Source	no
Depth	3 m
Sub-array Separation	0
COS to COS	single source

Recording Parameters	
Record Length	9
Total recording delay	0
Sample Rate	0.5 ms
Polarity	SEGD standard
Low-Cut	3Hz analog
Hi-Cut	200Hz, 270dB/octave
File Format	SEGD

Description	SOL/FGSP	EOL/LGSP
SP	39192	40940
Date	12/12/2025	12/12/2025
Time UTC	06:34	12:40
Volume	90 in3	90 in3
Wind	W 7 kts	NE 7 kts
Sea State	1 m	0.5 m
Water Depth	4200 m	3097 m

Abbreviations
SOL/EOL: Start/End of Line
FGSP/LGSP: First/Last Good SP
SnGm: array/string n, gun m

Dead/bad channels

[illegible]

[illegible]

Observers Log	
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Vessel	Marcus G. Langseth
Client	Glenn Spinelli
Area	South Mexico Margin
Job Number	MGL2514

Shift	00:00-12:00	12:00-24:00
Science Officer	Cody Bahlau	
Acquisition	Jose Angel Ramirez Najera	Gilles Guerin
Navigation	Cody Bahlau	Aaron Martin

LINE	MGL2514015T01
SEQUENCE	15
DIRECTION	198.7

	SP#	FFID	Raw SegD
SOL	41471	31296	NA
EOL	43196	33021	NA

Streamer Parameters				
	1	2	3	4
Length (m)	4050			
Auxiliaries	12			
Shotpoint Interval: (m)	25			
Offset COS - CNG (m)	117.65			
Group Interval: (m)	6.25			
Number of channels	648			
Streamer Depth (m)	4			

Source Parameters	
Total Volume	GI guns - 90 in3
Work Pressure	1900psi +/- 100psi
Dual Source	no
Depth	3 m
Sub-array Separation	0
COS to COS	single source

Recording Parameters	
Record Length	9
Total recording delay	0
Sample Rate	0.5 ms
Polarity	SEGD standard
Low-Cut	3Hz analog
Hi-Cut	200Hz, 270dB/octave
File Format	SEGD

Description	SOL/FGSP	EOL/LGSP
SP	41471	43196
Date	12/17/2025	12/17/2025
Time UTC	07:46:31	13:09:15
Volume	90 in3	90 in3
Wind	W 6.8 kts	W 7.1 kts
Sea State	1 m	0.5 m
Water Depth	1240 m	4403 m

Abbreviations
SOL/EOL: Start/End of Line
FGSP/LGSP: First/Last Good SP
SnGm: array/string n, gun m

Dead/bad channels

[illegible]

Time UTC	FFID	SP	Description
7:46	31296	41471	SOL MGL2514015T01 - 2 guns - 90 in3
9:33	31878	42053	Some traces not correctly retrieved warning - SEGD checked OK
13:09	33021	43196	EOL MGL2514015T01 - 2 guns - 90 in3

Observers Log	
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Vessel	Marcus G. Langseth
Client	Glenn Spinelli
Area	South Mexico Margin
Job Number	MGL2514

Shift	00:00-12:00	12:00-24:00
Science Officer	Cody Bahlau	
Acquisition	Jose Angel Ramirez Najera	Gilles Guerin
Navigation	Cody Bahlau	Aaron Martin

LINE	MGL2514016T02
SEQUENCE	16
DIRECTION	18.5

	SP#	FFID	Raw SegD
SOL	45417	33022	NA
EOL	47223	34828	NA

Streamer Parameters				
	1	2	3	4
Length (m)	4050			
Auxiliaries	12			
Shotpoint Interval: (m)	25			
Offset COS - CNG (m)	117.65			
Group Interval: (m)	6.25			
Number of channels	648			
Streamer Depth (m)	4			

Source Parameters	
Total Volume	GI guns - 90 in3
Work Pressure	1900psi +/- 100psi
Dual Source	no
Depth	3 m
Sub-array Separation	0
COS to COS	single source

Recording Parameters	
Record Length	9
Total recording delay	0
Sample Rate	0.5 ms
Polarity	SEGD standard
Low-Cut	3Hz analog
Hi-Cut	200Hz, 270dB/octave
File Format	SEGD

Description	SOL/FGSP	EOL/LGSP
SP	45417	47223
Date	12/17/2025	12/17/2025
Time UTC	14:49:13	20:27:53
Volume	90 in3	90 in3
Wind	W 4.2 kts	W 13 kts
Sea State	0.5 m	1 m
Water Depth	4380 m	960 m

Abbreviations
SOL/EOL: Start/End of Line
FGSP/LGSP: First/Last Good SP
SnGm: array/string n, gun m

Dead/bad channels

[illegible]

Time UTC	FFID	SP	Description
14:49:13	33022	45417	SOL MGL2514016T02 - 2 guns - 90 in3
14:49:23	33023	45418	Some traces not correctly retrieved warning - SEGD checked OK
14:50:05	33027	45422	Some traces not correctly retrieved warning - SEGD checked OK
14:50:26	33029	45424	Some traces not correctly retrieved warning - SEGD checked OK
14:50:57	33032	45427	Some traces not correctly retrieved warning - SEGD checked OK
16:16:39	33495	45890	Some traces not correctly retrieved warning - SEGD checked OK
20:27:53	34828	47223	EOL MGL2514016T02 - 2 guns - 90 in3

Observers Log	
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Vessel	Marcus G. Langseth
Client	Glenn Spinelli
Area	South Mexico Margin
Job Number	MGL2514

Shift	00:00-12:00	12:00-24:00
Science Officer	Cody Bahlau	
Acquisition	Jose Angel Ramirez Najera	Gilles Guerin
Navigation	Cody Bahlau	Aaron Martin

LINE	MGL2514017T03
SEQUENCE	17
DIRECTION	198.7

	SP#	FFID	Raw SegD
SOL	48515	34829	NA
EOL	50328	36642	NA

Streamer Parameters				
	1	2	3	4
Length (m)	4050			
Auxiliaries	12			
Shotpoint Interval: (m)	25			
Offset COS - CNG (m)	117.65			
Group Interval: (m)	6.25			
Number of channels	648			
Streamer Depth (m)	4			

Source Parameters	
Total Volume	GI guns - 90 in3
Work Pressure	1900psi +/- 100psi
Dual Source	no
Depth	3 m
Sub-array Separation	0
COS to COS	single source

Recording Parameters	
Record Length	9
Total recording delay	0
Sample Rate	0.5 ms
Polarity	SEGD standard
Low-Cut	3Hz analog
Hi-Cut	200Hz, 270dB/octave
File Format	SEGD

Description	SOL/FGSP	EOL/LGSP
SP	48515	50328
Date	12/17/2025	12/18/2025
Time UTC	22:51:53	04:45:57
Volume	90 in3	90 in3
Wind	W 16 kts	W 16 kts
Sea State	1 m	1 m
Water Depth	1032 m	4321 m

Abbreviations
SOL/EOL : Start/End of Line
FGSP/LGSP : First/Last Good SP
SnGm : array/string n, gun m

Dead/bad channels

[illegible]

Time UTC	FFID	SP	Description
22:51	34829	48515	SOL MGL2514017T03 - 2 guns - 90 in3
23:59	35166	48852	Last shot 12/17
04:45	36642	50328	EOL MGL2514017T03 - 2 guns - 90 in3

Observers Log	
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Vessel	Marcus G. Langseth
Client	Glenn Spinelli
Area	South Mexico Margin
Job Number	MGL2514

Shift	00:00-12:00	12:00-24:00
Science Officer	Cody Bahlau	
Acquisition	Jose Angel Ramirez Najera	Gilles Guerin
Navigation	Cody Bahlau	Aaron Martin

LINE	MGL2514018T04
SEQUENCE	18
DIRECTION	18.5

	SP#	FFID	Raw SegD
SOL	51341	36643	NA
EOL	53500	38802	NA

Streamer Parameters				
	1	2	3	4
Length (m)	4050			
Auxiliaries	12			
Shotpoint Interval: (m)	25			
Offset COS - CNG (m)	117.65			
Group Interval: (m)	6.25			
Number of channels	648			
Streamer Depth (m)	4			

Source Parameters	
Total Volume	GI guns - 90 in3
Work Pressure	1900psi +/- 100psi
Dual Source	no
Depth	3 m
Sub-array Separation	0
COS to COS	single source

Recording Parameters	
Record Length	9
Total recording delay	0
Sample Rate	0.5 ms
Polarity	SEGD standard
Low-Cut	3Hz analog
Hi-Cut	200Hz, 270dB/octave
File Format	SEGD

Description	SOL/FGSP	EOL/LGSP
SP	51341	53500
Date	12/18/2025	12/18/2025
Time UTC	05:43:20	12:31:38
Volume	90 in3	90 in3
Wind	W 14 kts	11.7 kts
Sea State	1 m	.5 m
Water Depth	4290 m	1089 m

Abbreviations
SOL/EOL: Start/End of Line
FGSP/LGSP: First/Last Good SP
SnGm: array/string n, gun m

Dead/bad channels

[illegible]

Time UTC	FFID	SP	Description
05:43	36643	51341	SOL MGL2514018T04 - 2 guns - 90 in3
12:31	38802	53500	EOL MGL2514018T04 - 2 guns - 90 in3

Observers Log	
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Vessel	Marcus G. Langseth
Client	Glenn Spinelli
Area	South Mexico Margin
Job Number	MGL2514

Shift	00:00-12:00	12:00-24:00
Science Officer	Cody Bahlau	
Acquisition	Jose Angel Ramirez Najera	Gilles Guerin
Navigation	Cody Bahlau	Aaron Martin

LINE	MGL2514019T05
SEQUENCE	19
DIRECTION	198.6

	SP#	FFID	Raw SegD
SOL	54343	38803	NA
EOL	56659	41119	NA

Streamer Parameters				
	1	2	3	4
Length (m)	4050			
Auxiliaries	12			
Shotpoint Interval: (m)	25			
Offset COS - CNG (m)	117.65			
Group Interval: (m)	6.25			
Number of channels	648			
Streamer Depth (m)	4			

Source Parameters	
Total Volume	GI guns - 90 in3
Work Pressure	1900psi +/- 100psi
Dual Source	no
Depth	3 m
Sub-array Separation	0
COS to COS	single source

Recording Parameters	
Record Length	9
Total recording delay	0
Sample Rate	0.5 ms
Polarity	SEGD standard
Low-Cut	3Hz analog
Hi-Cut	200Hz, 270dB/octave
File Format	SEGD

Description	SOL/FGSP	EOL/LGSP
SP	54343	56659
Date	12/18/2025	12/18/2025
Time UTC	13:59:59	21:07:47
Volume	90 in3	90 in3
Wind	3.5 kts	W 9 kts
Sea State	.5 m	1 m
Water Depth	1325 m	4180 m

Abbreviations
SOL/EOL: Start/End of Line
FGSP/LGSP: First/Last Good SP
SnGm: array/string n, gun m

Dead/bad channels

General / Line Comments
SP 55537-55555 - Guns disabled due to turtle sighting
SP 56163-56250 - Guns disabled due to turtle sighting. 15 min silence because turtle was not seen leaving area.

Time UTC	FFID	SP	Description
13:59	38803	54343	SOL MGL2514019T05 - 2 guns - 90 in3
17:40	39996	55536	Guns disabled due to PSO detection - LGSP
17:43	40016	55556	Back to Full volume - 2 guns - 90in3 - FGSP
19:34	40622	56162	Shutdwon because of turtle sighting - LGSP
			wait for 15 minutes because turtle was not seen leaving area
19:50	40711	56251	Back to Full volume - 2 guns - 90in3 - FGSP
21:07	41119	56659	EOL MGL2514019T05 - 2 guns - 90 in3

Observers Log

Vessel	Marcus G. Langseth
Client	Glenn Spinelli
Area	South Mexico Margin
Job Number	MGL2514

Shift	00:00-12:00	12:00-24:00
Science Officer	Cody Bahlau	
Acquisition	Jose Angel Ramirez Najera	Gilles Guerin
Navigation	Cody Bahlau	Aaron Martin

LINE	MGL2514020T06
SEQUENCE	20
DIRECTION	18.4

	SP#	FFID	Raw SegD
SOL	59656	41120	NA
EOL	57341	43435	NA

Streamer Parameters				
	1	2	3	4
Length (m)	4050			
Auxiliaries	12			
Shotpoint Interval: (m)	25			
Offset COS - CNG (m)	117.65			
Group Interval: (m)	6.25			
Number of channels	648			
Streamer Depth (m)	4			

Source Parameters	
Total Volume	GI guns - 90 in3
Work Pressure	1900psi +/- 100psi
Dual Source	no
Depth	3 m
Sub-array Separation	0
COS to COS	single source

Recording Parameters	
Record Length	9
Total recording delay	0
Sample Rate	0.5 ms
Polarity	SEGD standard
Low-Cut	3Hz analog
Hi-Cut	200Hz, 270dB/octave
File Format	SEGD

Description	SOL/FGSP	EOL/LGSP
SP	59656	57341
Date	12/18/2025	12/19/2025
Time UTC	22:43:03	05:50:21
Volume	90 in3	90 in3
Wind	W 9 kts	NW 6 kts
Sea State	1 m	1 m
Water Depth	4135 m	1660 m

Abbreviations
SOL/EOL: Start/End of Line
FGSP/LGSP: First/Last Good SP
SnGm: array/string n, gun m

Dead/bad channels

[illegible]

[illegible]

Observers Log

Vessel	Marcus G. Langseth
Client	Glenn Spinelli
Area	South Mexico Margin
Job Number	MGL2514

Shift	00:00-12:00	12:00-24:00
Science Officer	Cody Bahlau	
Acquisition	Jose Angel Ramirez Najera	Gilles Guerin
Navigation	Cody Bahlau	Aaron Martin

LINE	MGL2514021T07
SEQUENCE	21
DIRECTION	198.0

	SP#	FFID	Raw SegD
SOL	60392	43436	NA
EOL	62658	45702	NA

Streamer Parameters				
	1	2	3	4
Length (m)	4050			
Auxiliaries	12			
Shotpoint Interval: (m)	25			
Offset COS - CNG (m)	117.65			
Group Interval: (m)	6.25			
Number of channels	648			
Streamer Depth (m)	4			

Source Parameters	
Total Volume	GI guns - 90 in3
Work Pressure	1900psi +/- 100psi
Dual Source	no
Depth	3 m
Sub-array Separation	0
COS to COS	single source

Recording Parameters	
Record Length	9
Total recording delay	0
Sample Rate	0.5 ms
Polarity	SEGD standard
Low-Cut	3Hz analog
Hi-Cut	200Hz, 270dB/octave
File Format	SEGD

Description	SOL/FGSP	EOL/LGSP
SP	60392	62658
Date	12/19/2025	12/19/2025
Time UTC	07:37	14:38
Volume	90 in3	90 in3
Wind	5.8 kts	1.4 kts
Sea State	1 m	0.5 m
Water Depth	1915 m	4154 m

Abbreviations
SOL/EOL: Start/End of Line
FGSP/LGSP: First/Last Good SP
SnGm: array/string n, gun m

Dead/bad channels

[illegible]

[illegible]

Observers Log	
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Vessel	Marcus G. Langseth
Client	Glenn Spinelli
Area	South Mexico Margin
Job Number	MGL2514

Shift	00:00-12:00	12:00-24:00
Science Officer	Cody Bahlau	
Acquisition	Jose Angel Ramirez Najera	Gilles Guerin
Navigation	Cody Bahlau	Aaron Martin

LINE	MGL2514022T08
SEQUENCE	22
DIRECTION	18.4

	SP#	FFID	Raw SegD
SOL	63322	45703	NA
EOL	65658	48039	NA

Streamer Parameters				
	1	2	3	4
Length (m)	4050			
Auxiliaries	12			
Shotpoint Interval: (m)	25			
Offset COS - CNG (m)	117.65			
Group Interval: (m)	6.25			
Number of channels	648			
Streamer Depth (m)	4			

Source Parameters	
Total Volume	GI guns - 90 in3
Work Pressure	1900psi +/- 100psi
Dual Source	no
Depth	3 m
Sub-array Separation	0
COS to COS	single source

Recording Parameters	
Record Length	9
Total recording delay	0
Sample Rate	0.5 ms
Polarity	SEGD standard
Low-Cut	3Hz analog
Hi-Cut	200Hz, 270dB/octave
File Format	SEGD

Description	SOL/FGSP	EOL/LGSP
SP	63322	65658
Date	12/19/2025	12/19/2025
Time UTC	15:35:20	22:47:48
Volume	90 in3	90 in3
Wind	2.9 kts	W 5 kts
Sea State	0.5 m	0.5 m
Water Depth	4125 m	2040 m

Abbreviations
SOL/EOL: Start/End of Line
FGSP/LGSP: First/Last Good SP
SnGm: array/string n, gun m

Dead/bad channels

[illegible]

[illegible]

Observers Log	
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Vessel	Marcus G. Langseth
Client	Glenn Spinelli
Area	South Mexico Margin
Job Number	MGL2514

Shift	00:00-12:00	12:00-24:00
Science Officer	Cody Bahlau	
Acquisition	Jose Angel Ramirez Najera	Gilles Guerin
Navigation	Cody Bahlau	Aaron Martin

LINE	MGL2514023T09
SEQUENCE	23
DIRECTION	198.6

	SP#	FFID	Raw SegD
SOL	66341	48040	NA
EOL	68658	50357	NA

Streamer Parameters				
	1	2	3	4
Length (m)	4050			
Auxiliaries	12			
Shotpoint Interval: (m)	25			
Offset COS - CNG (m)	117.65			
Group Interval: (m)	6.25			
Number of channels	648			
Streamer Depth (m)	4			

Source Parameters	
Total Volume	GI guns - 90 in3
Work Pressure	1900psi +/- 100psi
Dual Source	no
Depth	3 m
Sub-array Separation	0
COS to COS	single source

Recording Parameters	
Record Length	9
Total recording delay	0
Sample Rate	0.5 ms
Polarity	SEGD standard
Low-Cut	3Hz analog
Hi-Cut	200Hz, 270dB/octave
File Format	SEGD

Description	SOL/FGSP	EOL/LGSP
SP	66341	68658
Date	12/19/2025	12/20/2025
Time UTC	23:47:58	06:56:22
Volume	90 in3	90 in3
Wind	W 2 kts	4.3 kts
Sea State	0.5 m	.5 m
Water Depth	2100 m	4256 m

Abbreviations
SOL/EOL: Start/End of Line
FGSP/LGSP: First/Last Good SP
SnGm: array/string n, gun m

Dead/bad channels

[illegible]

[illegible]

Observers Log	
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Vessel	Marcus G. Langseth
Client	Glenn Spinelli
Area	South Mexico Margin
Job Number	MGL2514

Shift	00:00-12:00	12:00-24:00
Science Officer	Cody Bahlau	
Acquisition	Jose Angel Ramirez Najera	Gilles Guerin
Navigation	Cody Bahlau	Aaron Martin

LINE	MGL2514024T10
SEQUENCE	24
DIRECTION	18.4

	SP#	FFID	Raw SegD
SOL	69394	50358	NA
EOL	71658	52622	NA

Streamer Parameters				
	1	2	3	4
Length (m)	4050			
Auxiliaries	12			
Shotpoint Interval: (m)	25			
Offset COS - CNG (m)	117.65			
Group Interval: (m)	6.25			
Number of channels	648			
Streamer Depth (m)	4			

Source Parameters	
Total Volume	GI guns - 90 in3
Work Pressure	1900psi +/- 100psi
Dual Source	no
Depth	3 m
Sub-array Separation	0
COS to COS	single source

Recording Parameters	
Record Length	9
Total recording delay	0
Sample Rate	0.5 ms
Polarity	SEGD standard
Low-Cut	3Hz analog
Hi-Cut	200Hz, 270dB/octave
File Format	SEGD

Description	SOL/FGSP	EOL/LGSP
SP	69394	71658
Date	12/20/2025	12/20/2025
Time UTC	08:04:14	15:04:51
Volume	90 in3	90 in3
Wind	N 1 kts	NE 7.2 kts
Sea State	0.5 m	0.5 m
Water Depth	4140 m	2064 m

Abbreviations
SOL/EOL : Start/End of Line
FGSP/LGSP : First/Last Good SP
SnGm : array/string n, gun m

Dead/bad channels

[illegible]

[illegible]

Observers Log

Vessel	Marcus G. Langseth
Client	Glenn Spinelli
Area	South Mexico Margin
Job Number	MGL2514

Shift	00:00-12:00	12:00-24:00
Science Officer	Cody Bahlau	
Acquisition	Jose Angel Ramirez Najera	Gilles Guerin
Navigation	Cody Bahlau	Aaron Martin

LINE	MGL2514025T11
SEQUENCE	25
DIRECTION	198.5

	SP#	FFID	Raw SegD
SOL	72421	52623	NA
EOL	74658	54860	NA

Streamer Parameters				
	1	2	3	4
Length (m)	4050			
Auxiliaries	12			
Shotpoint Interval: (m)	25			
Offset COS - CNG (m)	117.65			
Group Interval: (m)	6.25			
Number of channels	648			
Streamer Depth (m)	4			

Source Parameters	
Total Volume	GI guns - 90 in3
Work Pressure	1900psi +/- 100psi
Dual Source	no
Depth	3 m
Sub-array Separation	0
COS to COS	single source

Recording Parameters	
Record Length	9
Total recording delay	0
Sample Rate	0.5 ms
Polarity	SEGD standard
Low-Cut	3Hz analog
Hi-Cut	200Hz, 270dB/octave
File Format	SEGD

Description	SOL/FGSP	EOL/LGSP
SP	72421	74658
Date	12/20/2025	12/20/2025
Time UTC	16:16:32	23:11:43
Volume	90 in3	90 in3
Wind	3.9 kts	NW 4 kts
Sea State	0.5 m	0.5 m
Water Depth	2298 m	3800 m

Abbreviations
SOL/EOL: Start/End of Line
FGSP/LGSP: First/Last Good SP
SnGm: array/string n, gun m

Dead/bad channels

General / Line Comments
Ship traffic noise SP ~73500-73800
SP 73831-73913: - no compass data because of LIU failure
Last sequence of MGL2514

Time UTC	FFID	SP	Description
16:16	52623	72421	SOL MGL2514025T11 - 2 guns - 90 in3
20:44-20:55	54053-55115	73851-73913	No compass data because of LIU failure
23:11	54860	74658	EOL MGL2514025T11 - 2 guns - 90 in3