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<b>Seq# 006</b>		<b>Line Name:</b> MGL22040065		<b>NAVIGATION</b>		<b>DATE:</b> 2022-05-30		 COLUMBIA UNIVERSITY   EARTH INSTITUTE	
		<b>Line Brg :</b> 108.3 °		<b>LINE LOGS</b>		<b>JULIAN DAY:</b> 150			
<b>CLIENT:</b> NSF - Anne Becel		<b>SURVEY:</b> MCS and OBS		<b>AREA:</b> Guerrero Gap, Mexico					
DC SOL: 114.7 m DC EOL: 90.8 m BSP SOL: 4.2 kts BSP EOL: 4.9 kts <b>WEATHER</b> WIND SOL: N 13 kts WIND EOL: NW 19.3 kts SEAS SOL: 2.5 m SEAS EOL: 1.5 m		DEPTH SOL : 4255.6 m DEPTH EOL : 4142.0 m FEATHER SOL: NA FEATHER EOL: NA MAX FEATHER: NA		NAVIGATION SYSTEM USED: C-Nav3050 - Primary NAVIGATION SYSTEM USED: SeaPath 330 NAVIGATION SYSTEM USED: C-Nav3050-Stern Mounted  GRAVITY METER: BMG-II: used, SN223 MAGNETOMETER: Geometrics 882					
<div style="display: flex; justify-content: space-between;"> <div> <b>shift hours</b>            12:00 - 24:00            0:00-12:00         </div> <div> <b>Nav</b>            Cody Bahlau            Alan Thompson         </div> <div> <b>shift hours</b>            12:00 - 24:00            00:00 - 12:00         </div> <div> <b>Acc</b>            Clay Kurtis            Todd Jensvold         </div> </div>									
<b>SP</b>	<b>UTC</b>	<b>EVENT</b>	<b>COMMENTS</b>						
6302	13:20	SOL	36 Guns 6600 Cubic inches, Source only, no streamer, Shot point interval shortened to 300 m						
6619	23:58	MSP	<div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: 150px;">           NRP - Stern 29.5m            NRP - COS 230.0m            NRP - CNG -----            COS - CNG -----            NRP - CMP -----         </div>						
6620	00:01	FSOD							
6821	06:39	EOL							
Posnet locations & remarks: good - none - intermittent			<div style="display: flex; justify-content: space-between;"> <div>           Tailbuoy #1 None Gun string #1 GOOD            Tailbuoy #2 None Gun string #2 GOOD            Tailbuoy #3 None Gun string #3 GOOD            Tailbuoy #4 None Gun string #4 GOOD         </div> <div>           SP spacing: 300m  <b>line status:</b> Complete         </div> </div>						

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<b>Seq# 009</b>		Line Name: <b>MGL22040094</b>		<b>NAVIGATION</b>		DATE: 2022-06-05		 	
		Line Brg : <b>287.8 °</b>		<b>LINE LOGS</b>		JULIAN DAY: 156			
CLIENT: NSF - Anne Becel		SURVEY: MCS and OBS		AREA: Guerrero Gap, Mexico					
DC SOL: -799.7 m		DEPTH SOL : 2586.7 m		NAVIGATION SYSTEM USED: C-Nav3050 - Primary					
DC EOL: -5.9 m		DEPTH EOL : 2380.5 m		NAVIGATION SYSTEM USED: SeaPath 330					
BSP SOL: 4.6 kts		FEATHER SOL: NA		NAVIGATION SYSTEM USED: C-Nav3050-Stern Mounted					
BSP EOL: 4.0 kts		FEATHER EOL: NA		GRAVITY METER: BMG-II: used, SN223 MAGNETOMETER: Geometrics 882					
WEATHER		MAX FEATHER: NA							
WIND SOL: NW 5.6 kts									
WIND EOL: NW 5.6 kts									
SEAS SOL: 0.5 m									
SEAS EOL: 0.5 m									

<b>Seq# 010</b>		<b>Line Name:</b> MGL22040104a		<b>NAVIGATION</b>		<b>DATE:</b> 2022-06-05		 COLUMBIA UNIVERSITY   EARTH INSTITUTE																							
		<b>Line Brg :</b> 287.8 °		<b>LINE LOGS</b>		<b>JULIAN DAY:</b> 156																									
		<b>CLIENT:</b> NSF - Anne Becel		<b>SURVEY:</b> MCS and OBS		<b>AREA:</b> Guerrero Gap, Mexico																									
DC SOL: -119.1 m DC EOL: 10.3 m BSP SOL: 3.5 kts BSP EOL: 5.0 kts WEATHER WIND SOL: W 5.3 kts WIND EOL: W 10 kts SEAS SOL: 1m SEAS EOL: 1m		DEPTH SOL : 2598.0 m DEPTH EOL : 1823.0 m FEATHER SOL: NA FEATHER EOL: NA MAX FEATHER: NA		NAVIGATION SYSTEM USED: C-Nav3050 - Primary NAVIGATION SYSTEM USED: SeaPath 330 NAVIGATION SYSTEM USED: C-Nav3050-Stern Mounted  GRAVITY METER: BMG-II: used, SN223 MAGNETOMETER: Geometrics 882																											
		<div style="display: flex; justify-content: space-between;"> <div> <u>shift hours</u>            12:00 - 24:00            0:00-12:00         </div> <div> <u>Nav</u>            Cody Bahlau            Alan Thompson         </div> <div> <u>shift hours</u>            12:00 - 24:00            00:00 - 12:00         </div> <div> <u>Acc</u>            Clay Kurtis            Todd Jensvold         </div> </div>																													
<b>SP</b> 9041	<b>UTC</b> 14:19	<b>EVENT</b> SOL	<b>COMMENTS</b> 36 Guns 6000 Cubic inches, Source only, no streamer, Shot point interval 300 m																												
			<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">           FSP LSP         </div> <div style="width: 50%;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: left; padding: 2px;">VESSEL POSITION</th> </tr> <tr> <th style="width: 15%;">Shotpoints</th> <th style="width: 30%;">Latitude (N)</th> <th style="width: 55%;">Longitude (W)</th> </tr> </thead> <tbody> <tr> <td>9041</td> <td>16° 15' 46.580"</td> <td>99° 48' 17.118"</td> </tr> <tr> <td>9160</td> <td>16° 22' 49.609"</td> <td>99° 29' 37.054"</td> </tr> </tbody> </table>   <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 60%;">NRP - Stern</td> <td>29.5m</td> </tr> <tr> <td>NRP - COS</td> <td>230.0m</td> </tr> <tr> <td>NRP - CNG</td> <td>-----</td> </tr> <tr> <td>COS - CNG</td> <td>-----</td> </tr> <tr> <td>NRP - CMP</td> <td>-----</td> </tr> </tbody> </table> </div> </div>							VESSEL POSITION			Shotpoints	Latitude (N)	Longitude (W)	9041	16° 15' 46.580"	99° 48' 17.118"	9160	16° 22' 49.609"	99° 29' 37.054"	NRP - Stern	29.5m	NRP - COS	230.0m	NRP - CNG	-----	COS - CNG	-----	NRP - CMP	-----
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Posnet locations & remarks: good - none - intermittent			<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">           SP spacing: 300.0m         </div> <div style="width: 50%;"> <b>line status:</b> Complete         </div> </div>																												
Tailbuoy #1 None	Gun string #1 GOOD																														
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Tailbuoy #3 None	Gun string #3 GOOD																														
Tailbuoy #4 None	Gun string #4 GOOD																														

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<b>Seq# 023</b>		<b>Line Name: MGL2204023MT02</b>		<b>NAVIGATION</b>		DATE: 2022-06-12		 																																																																																																																																																																																																																
		<b>Line Brg : 310.6 °</b>		<b>LINE LOGS</b>		JULIAN DAY: 163																																																																																																																																																																																																																		
<b>CLIENT: NSF - Anne Becel</b>				<b>SURVEY: MCS and OBS</b>		<b>AREA: Guerrero Gap, Mexico</b>																																																																																																																																																																																																																		
DC SOL: 2.24		DEPTH SOL : 23797.7 m		NAVIGATION SYSTEM USED: C-Nav3050 - Primary																																																																																																																																																																																																																				
DC EOL: -661.71		DEPTH EOL : 107.0 m		NAVIGATION SYSTEM USED: SeaPath 330																																																																																																																																																																																																																				
BSP SOL: 4.4		FEATHER SOL: -90.0 °		NAVIGATION SYSTEM USED: C-Nav3050-Stern Mounted																																																																																																																																																																																																																				
BSP EOL: 4.3		FEATHER EOL: 01.7 °																																																																																																																																																																																																																						
WEATHER		MAX FEATHER: -90.0 °		GRAVITY METER: BMG-II: used, SN223																																																																																																																																																																																																																				
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String 2 onboard for repairs</td> <td></td> <td></td> <td></td> </tr> <tr> <td>28398</td> <td>1398</td> <td>15:15</td> <td>Full Volume</td> <td>Enable gun string 2, 6600 cubic inches, 36 guns</td> <td></td> <td></td> <td></td> </tr> <tr> <td>28411</td> <td>1411</td> <td>15:19</td> <td>PSO</td> <td>Power down, shooting 1 gun, 40cubic inches</td> <td></td> <td></td> <td></td> </tr> <tr> <td>28424</td> <td>1424</td> <td>15:24</td> <td>Streamer</td> <td>Streamer failed, while moving position</td> <td></td> <td></td> <td></td> </tr> <tr> <td>28434</td> <td>1434</td> <td>15:28</td> <td>Streamer</td> <td>Streamer back online</td> <td>FSP</td> <td>28063</td> <td>16.318104</td> <td>99.128494</td> </tr> <tr> <td>28471</td> <td>1471</td> <td>15:40</td> <td>Ramp up</td> <td>Begin ramp up in external</td> <td>LSP</td> <td>29057</td> <td>16.625355</td> <td>99.468028</td> </tr> <tr> <td>28528</td> <td>1528</td> <td>15:59</td> <td>Ramp up</td> <td>Ramp up stopped, turtle sighting, power down to 1 gun 40 cubic inches</td> <td></td> <td></td> <td></td> </tr> <tr> <td>28575</td> <td>1575</td> <td>16:15</td> <td>Ramp up</td> <td>Begin ramp up in external</td> <td></td> <td></td> <td></td> </tr> <tr> <td>28638</td> <td>1638</td> <td>16:36</td> <td>Full Volume</td> <td>Ramp up complete, full volume 36 guns</td> <td></td> <td></td> <td></td> </tr> <tr> <td>28699</td> <td>1699</td> <td>16:56</td> <td>LGSP</td> <td>Last Good Shot Point at Full Volume</td> <td></td> <td></td> <td></td> </tr> <tr> <td>28700</td> <td>1700</td> <td>16:56</td> <td>Power Down</td> <td>Power down, shooting 1 gun, 40cubic inches</td> <td></td> <td></td> <td></td> </tr> <tr> <td>28750</td> <td>1750</td> <td>17:13</td> <td>Ramp Up</td> <td>Begin ramp up in external</td> <td></td> <td></td> <td></td> </tr> <tr> <td>28812</td> <td>1812</td> <td>17:33</td> <td>Full Volume</td> <td>Ramp up complete, full volume 36 guns</td> <td></td> <td></td> <td></td> </tr> <tr> <td>28994</td> <td>1994</td> <td>18:34</td> <td>LGSP</td> <td>Last Good Shot Point at Full Volume</td> <td></td> <td></td> <td></td> </tr> <tr> <td>28995</td> <td>1995</td> <td>18:34</td> <td>Power Down</td> <td>Power down, shooting 1 gun, 40cubic inches</td> <td></td> <td></td> <td></td> </tr> <tr> <td>29057</td> <td>2057</td> <td>18:58</td> <td>EOL</td> <td>End of Line - 1 Gun @ 40cuin</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="4">Posnet locations &amp; remarks: good - none - intermittent</td> <td colspan="6"></td> </tr> <tr> <td>Tailbuoy #1</td> <td>Good</td> <td>GOOD</td> <td>Gun string #1</td> <td>GOOD</td> <td colspan="5" rowspan="4">           SP spacing: 50.0m  <b>line status:</b> Complete         </td> </tr> <tr> <td>Tailbuoy #2</td> <td></td> <td>None</td> <td>Gun string #2</td> <td>GOOD</td> </tr> <tr> <td>Tailbuoy #3</td> <td></td> <td>None</td> <td>Gun string #3</td> <td>GOOD</td> </tr> <tr> <td>Tailbuoy #4</td> <td></td> <td>None</td> <td>Gun string #4</td> <td>GOOD</td> </tr> </tbody> </table>										SP	UTC	EVENT	COMMENTS	VESSEL POSITION									Shotpoints	Latitude (N)	Longitude (W)	28063	1063	13:15	SOL	27 Guns 4950 Cubic inches, Shot point interval 50m, String 2 off for repairs				28158	1158	13:50	PSO	Power down, shooting 1 gun, 40cubic inches	FSP	28063	16°19'05.17"	99°07'42.58"	28234	1234	14:17	Ramp up	Begin ramp up in external	LSP	29057	16°37'31.28"	99°28'04.90"	28292	1292	14:38	Ramp up	Ramp up Complete, 4950 cubic inches, 27 guns. String 2 onboard for repairs				28398	1398	15:15	Full Volume	Enable gun string 2, 6600 cubic inches, 36 guns				28411	1411	15:19	PSO	Power down, shooting 1 gun, 40cubic inches				28424	1424	15:24	Streamer	Streamer failed, while moving position				28434	1434	15:28	Streamer	Streamer back online	FSP	28063	16.318104	99.128494	28471	1471	15:40	Ramp up	Begin ramp up in external	LSP	29057	16.625355	99.468028	28528	1528	15:59	Ramp up	Ramp up stopped, turtle sighting, power down to 1 gun 40 cubic inches				28575	1575	16:15	Ramp up	Begin ramp up in external				28638	1638	16:36	Full Volume	Ramp up complete, full volume 36 guns				28699	1699	16:56	LGSP	Last Good Shot Point at Full Volume				28700	1700	16:56	Power Down	Power down, shooting 1 gun, 40cubic inches				28750	1750	17:13	Ramp Up	Begin ramp up in external				28812	1812	17:33	Full Volume	Ramp up complete, full volume 36 guns				28994	1994	18:34	LGSP	Last Good Shot Point at Full Volume				28995	1995	18:34	Power Down	Power down, shooting 1 gun, 40cubic inches				29057	2057	18:58	EOL	End of Line - 1 Gun @ 40cuin				Posnet locations & remarks: good - none - intermittent										Tailbuoy #1	Good	GOOD	Gun string #1	GOOD	SP spacing: 50.0m <b>line status:</b> Complete					Tailbuoy #2		None	Gun string #2	GOOD	Tailbuoy #3		None	Gun string #3	GOOD	Tailbuoy #4		None	Gun string #4	GOOD
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NRP – Stern	29.5m
NRP – COS	240.0m
NRP – CNG	451.70m
COS – CNG	211.70m
NRP – CMP	345.90m

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NRP – CNG	451.70m
COS – CNG	211.70m
NRP – CMP	345.90m


NRP – Stern	29.5m
NRP – COS	235.0m
NRP – CNG	446.70m
COS – CNG	209.70m
NRP – CMP	341.00m

NRP – Stern	29.5m
NRP – COS	240.0m
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NRP – CMP	345.90m

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<b>Seq# 041</b>		<b>Line Name: MGL2204041MT10</b>		<b>NAVIGATION</b>		<b>DATE: 2022-06-20</b>																																			
		<b>Line Brg : 319.6 °</b>		<b>LINE LOGS</b>		<b>JULIAN DAY: 171</b>																																			
<b>CLIENT: NSF - Anne Becel</b>				<b>SURVEY: MCS and OBS</b>		<b>AREA: Guerrero Gap, Mexico</b>																																			
DC SOL: -154.8 m		DEPTH SOL : 1395.0 m		NAVIGATION SYSTEM USED: C-Nav3050 - Primary																																					
DC EOL: -906.0 m		DEPTH EOL : 102.4 m		NAVIGATION SYSTEM USED: SeaPath 330																																					
BSP SOL: 2.8 kts		FEATHER SOL: -104.74 °		NAVIGATION SYSTEM USED: C-Nav3050-Stern Mounted																																					
BSP EOL: 1.9 kts		FEATHER EOL: 11.85 °																																							
WEATHER		MAX FEATHER: -104.74 °		GRAVITY METER: BMG-II: used, SN223																																					
WIND SOL: NW 14 kts				MAGNETOMETER: Geometrics 882																																					
WIND EOL: NW 8 kts																																									
SEAS SOL: 1.0 m		shift hours		Nav		shift hours		Acq																																	
SEAS EOL: 1.0 m		12:00 - 24:00		Cody Bahlau		12:00 - 24:00		Clay Kurtis																																	
		0:00-12:00		Alan Thompson		00:00 - 12:00		Todd Jensvold																																	
SP	UTC	EVENT	COMMENTS																																						
66013	1013	00:19	SOL	SOL - 6600 cubic inches 36 guns																																					
66884	1884	07:31	EOL	EOL - Full Volume 36 guns @ 6600 cu in																																					
<table border="1"> <thead> <tr> <th colspan="4">VESSEL POSITION</th> </tr> <tr> <th></th> <th>Shotpoints</th> <th>Latitude (N)</th> <th>Longitude (W)</th> </tr> </thead> <tbody> <tr> <td>FSP</td> <td>66013</td> <td>16°38'42.97"</td> <td>100°02'43.19"</td> </tr> <tr> <td>LSP</td> <td>66884</td> <td>16°57'16.71"</td> <td>100°17'52.88"</td> </tr> <tr> <td colspan="4"> </td> </tr> <tr> <td></td> <td></td> <td>Latitude (N)</td> <td>Longitude (W)</td> </tr> <tr> <td>FSP</td> <td>66013</td> <td>16.645269</td> <td>100.04533</td> </tr> <tr> <td>LSP</td> <td>66884</td> <td>16.954642</td> <td>100.298021</td> </tr> </tbody> </table>										VESSEL POSITION					Shotpoints	Latitude (N)	Longitude (W)	FSP	66013	16°38'42.97"	100°02'43.19"	LSP	66884	16°57'16.71"	100°17'52.88"							Latitude (N)	Longitude (W)	FSP	66013	16.645269	100.04533	LSP	66884	16.954642	100.298021
VESSEL POSITION																																									
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Tailbuoy #1	GOOD	GOOD	Gun string #1	GOOD	GOOD																																				
Tailbuoy #2		None	Gun string #2	Failed	GOOD																																				
Tailbuoy #3		None	Gun string #3	GOOD	Failed																																				
Tailbuoy #4		None	Gun string #4	GOOD	GOOD																																				
SP spacing: 50.0m						line status: Complete																																			


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<b>Seq# 043</b>		<b>Line Name: MGL2204043MT11</b>		<b>NAVIGATION</b>		<b>DATE: 2022-06-21</b>																															
		<b>Line Brg : 32.3 °</b>		<b>LINE LOGS</b>		<b>JULIAN DAY: 172</b>																															
<b>CLIENT: NSF - Anne Becel</b>				<b>SURVEY: MCS and OBS</b>		<b>AREA: Guerrero Gap, Mexico</b>																															
DC SOL: 109.7 m		DEPTH SOL : 3410.0 m		NAVIGATION SYSTEM USED: C-Nav3050 - Primary																																	
DC EOL: -501.0 m		DEPTH EOL : 4087.0 m		NAVIGATION SYSTEM USED: SeaPath 330																																	
BSP SOL: 3.8 kts		FEATHER SOL: -94.08 °		NAVIGATION SYSTEM USED: C-Nav3050-Stern Mounted																																	
BSP EOL: 4.4 kts		FEATHER EOL: -10.12 °																																			
WEATHER		MAX FEATHER: -94.08 °		GRAVITY METER: BMG-II: used, SN223																																	
WIND SOL: SW 5 kts				MAGNETOMETER: Geometrics 882																																	
WIND EOL: NE 3 kts																																					
SEAS SOL: 1.0 m		shift hours		Nav		shift hours		Acq																													
SEAS EOL: 1.0 m		12:00 - 24:00		Cody Bahlau		12:00 - 24:00		Clay Kurtis																													
		0:00-12:00		Alan Thompson		00:00 - 12:00		Todd Jensvold																													
SP		UTC	EVENT	COMMENTS																																	
70040	1040	00:08	SOL	SOL - Ramping up; 1 gun @ 40cuin																																	
70098	1098	00:29	Full Volume	Full Volume; 36 Guns @ 6600 cu in																																	
70191	1191	01:03	LGSP	Last Good Full Volume Shot Point																																	
70192	1192	01:03	Power Down	Power Down, 1 gun @ 40 cu in																																	
70241	1241	01:20	Ramp up	Ramping up, 1 gun @ 40 cu in																																	
70300	1300	01:40	Full Volume	Full Volume; 36 Guns @ 6600 cu in																																	
70395	4395	2:21	EOL	EOL - Full Volume 36 guns @ 6600 cu in																																	
<table border="1"> <thead> <tr> <th colspan="4">VESSEL POSITION</th> </tr> <tr> <th></th> <th>Shotpoints</th> <th>Latitude (N)</th> <th>Longitude (W)</th> </tr> </thead> <tbody> <tr> <td>FSP</td> <td>70040</td> <td>16°06'20.43"</td> <td>100°53'04.26"</td> </tr> <tr> <td>LSP</td> <td>70395</td> <td>16°14'23.37"</td> <td>100°47'30.99"</td> </tr> <tr> <td></td> <td></td> <td>Latitude (N)</td> <td>Longitude (W)</td> </tr> <tr> <td>FSP</td> <td>70040</td> <td>16.105674</td> <td>100.884518</td> </tr> <tr> <td>LSP</td> <td>70395</td> <td>16.239825</td> <td>100.791943</td> </tr> </tbody> </table>										VESSEL POSITION					Shotpoints	Latitude (N)	Longitude (W)	FSP	70040	16°06'20.43"	100°53'04.26"	LSP	70395	16°14'23.37"	100°47'30.99"			Latitude (N)	Longitude (W)	FSP	70040	16.105674	100.884518	LSP	70395	16.239825	100.791943
VESSEL POSITION																																					
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FSP	70040	16°06'20.43"	100°53'04.26"																																		
LSP	70395	16°14'23.37"	100°47'30.99"																																		
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FSP	70040	16.105674	100.884518																																		
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NRP - CMP	345.90m																																				
Posnet locations & remarks: good - none - intermittent				Forward	Center																																
Tailbuoy #1	GOOD	GOOD	Gun string #1	GOOD	GOOD																																
Tailbuoy #2		None	Gun string #2	Failed	GOOD																																
Tailbuoy #3		None	Gun string #3	GOOD	Failed																																
Tailbuoy #4		None	Gun string #4	GOOD	GOOD																																
SP spacing: 50.0m						line status: Complete																															

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NRP – Stern	29.5m
NRP – COS	240.0m
NRP – CNG	451.70m
COS – CNG	211.70m
NRP – CMP	345.90m

<b>Seq# 046</b>		<b>Line Name:</b> MGL2204046MT12		<b>NAVIGATION</b>		<b>DATE:</b> 2022-06-22		 Lamont-Doherty Earth Observatory COLUMBIA UNIVERSITY   EARTH INSTITUTE											
		<b>Line Brg :</b> 60.8 °		<b>LINE LOGS</b>		<b>JULIAN DAY:</b> 173													
<b>CLIENT:</b> NSF - Anne Becel				<b>SURVEY:</b> MCS and OBS		<b>AREA:</b> Guerrero Gap, Mexico													
DC SOL: 0.1 m		DEPTH SOL : 3508.0 m		NAVIGATION SYSTEM USED: C-Nav3050 - Primary															
DC EOL: -1664.1 m		DEPTH EOL : 3525.0 m		NAVIGATION SYSTEM USED: SeaPath 330															
BSP SOL: 4.5 kts		FEATHER SOL: -093.0 °		NAVIGATION SYSTEM USED: C-Nav3050-Stern Mounted															
BSP EOL: 4.9 kts		FEATHER EOL: -29.27 °																	
WEATHER		MAX FEATHER: -093.0 °		GRAVITY METER: BMG-II: used, SN223															
WIND SOL: SE 14 kts				MAGNETOMETER: Geometrics 882															
WIND EOL: SE 30 kts																			
SEAS SOL: 1.5 m		shift hours		Nav		shift hours		Acq											
SEAS EOL: 3.0 m		12:00 - 24:00		Cody Bahlau		12:00 - 24:00		Klay Kurtis											
		0:00-12:00		Alan Thompson		00:00 - 12:00		Todd Jensvold											
SP		UTC	EVENT	COMMENTS															
77098	1098	16:06	SOL	SOL - 36 gun @ 6600 cuin															
78206	2206	22:22	EOL	EOL - 36 gun @ 6600 cuin															
				VESSEL POSITION															
				Shotpoints		Latitude (N)		Longitude (W)											
				77098		14°37'32.24"		101°53'40.08"											
				LSP		78206		14°51'52.50"											
						Latitude (N)		Longitude (W)											
				FSP		77098		14.625623											
				LSP		78206		14.864582											
						14.625623		101.894466											
						14.864582		101.44061											
				<table border="1"> <tr><td>NRP - Stern</td><td>29.5m</td></tr> <tr><td>NRP - COS</td><td>240.0m</td></tr> <tr><td>NRP - CNG</td><td>451.70m</td></tr> <tr><td>COS - CNG</td><td>211.70m</td></tr> <tr><td>NRP - CMP</td><td>345.90m</td></tr> </table>						NRP - Stern	29.5m	NRP - COS	240.0m	NRP - CNG	451.70m	COS - CNG	211.70m	NRP - CMP	345.90m
NRP - Stern	29.5m																		
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COS - CNG	211.70m																		
NRP - CMP	345.90m																		
Posnet locations & remarks: good - none - intermittent				Forward	Center														
Tailbuoy #1	GOOD	GOOD	Gun string #1	Failed	GOOD														
Tailbuoy #2		None	Gun string #2	Failed	Failed														
Tailbuoy #3		None	Gun string #3	GOOD	Failed														
Tailbuoy #4		None	Gun string #4	GOOD	GOOD														
SP spacing: 50.0m						line status: Complete													

<b>Seq# 047</b>		Line Name: <b>MGL2204047M01a</b>		<b>NAVIGATION</b>		DATE: <b>2022-06-22</b>		 Lamont-Doherty Earth Observatory COLUMBIA UNIVERSITY   EARTH INSTITUTE											
		Line Brg : <b>257.3 °</b>		<b>LINE LOGS</b>		JULIAN DAY: <b>173</b>													
CLIENT: NSF - Anne Becel				SURVEY: MCS and OBS		AREA: Guerrero Gap, Mexico													
DC SOL: 59.0 m		DEPTH SOL : 3520.0 m		NAVIGATION SYSTEM USED: C-Nav3050 - Primary															
DC EOL: -22.0 m		DEPTH EOL : 2123.0 m		NAVIGATION SYSTEM USED: SeaPath 330															
BSP SOL: 3.7 kts		FEATHER SOL: -131.7 °		NAVIGATION SYSTEM USED: C-Nav3050-Stern Mounted															
BSP EOL: 4.5 kts		FEATHER EOL: 27.1 °																	
WEATHER		MAX FEATHER: -131.7 °				GRAVITY METER: BMG-II: used, SN223													
WIND SOL: SE 30 kts						MAGNETOMETER: Geometrics 882													
WIND EOL: S 30 kts																			
SEAS SOL: 3.0 m		shift hours		Nav		shift hours		Acq											
SEAS EOL: 3.0 m		12:00 - 24:00		Cody Bahlau		12:00 - 24:00		Klay Kurtis											
		0:00-12:00		Alan Thompson		00:00 - 12:00		Todd Jensvold											
SP		UTC	EVENT	COMMENTS															
78686	686	23:01	SOL	SOL - 36 gun @ 6600 cuin															
78830	830	23:59	MSP	Last Shot of the day; 6/22/2022, Julian 173															
78831	831	00:00		First Shot of the day; 6/23/2022, Julian 174															
80272	2272	11:37	Airgun	Gun string 2 offline for recovery and repair, 4950 cubic inches, 27 guns															
80337	2337	12:17	Airgun	Gun string 2 repaired and firing, full volume															
81843	3843	23:59	MSP	Last Shot of the day; 6/23/2022, Julian 174															
81844	3844	0:00		First Shot of the day; 6/24/2022, Julian 175															
85537	7537	22:42	EOL	EOL - 36 gun @ 6600 cuin															
<table border="1"> <tr> <td>NRP - Stern</td> <td>29.5m</td> </tr> <tr> <td>NRP - COS</td> <td>240.0m</td> </tr> <tr> <td>NRP - CNG</td> <td>451.70m</td> </tr> <tr> <td>COS - CNG</td> <td>211.70m</td> </tr> <tr> <td>NRP - CMP</td> <td>345.90m</td> </tr> </table>										NRP - Stern	29.5m	NRP - COS	240.0m	NRP - CNG	451.70m	COS - CNG	211.70m	NRP - CMP	345.90m
										NRP - Stern	29.5m								
										NRP - COS	240.0m								
										NRP - CNG	451.70m								
										COS - CNG	211.70m								
										NRP - CMP	345.90m								
Posnet locations & remarks: good - none - intermittent				Forward	Center														
Tailbuoy #1	GOOD	GOOD	Gun string #1	Failed	GOOD														
Tailbuoy #2		None	Gun string #2	Failed															
Tailbuoy #3		None	Gun string #3	GOOD	Failed														
Tailbuoy #4		None	Gun string #4	GOOD	GOOD														
SP spacing: 50.0m						line status: Complete													


<b>Seq# 048</b>		<b>Line Name:</b> MGL2204048S102		<b>NAVIGATION</b>		<b>DATE:</b> 2022-06-26		 Lamont-Doherty Earth Observatory COLUMBIA UNIVERSITY   EARTH INSTITUTE											
		<b>Line Brg :</b> 35.1 °		<b>LINE LOGS</b>		<b>JULIAN DAY:</b> 177													
<b>CLIENT:</b> NSF - Anne Becel				<b>SURVEY:</b> MCS and OBS		<b>AREA:</b> Guerrero Gap, Mexico													
DC SOL: -40.0 m		DEPTH SOL : 4585.0 m		NAVIGATION SYSTEM USED: C-Nav3050 - Primary															
DC EOL: 432.5 m		DEPTH EOL : 188.0 m		NAVIGATION SYSTEM USED: SeaPath 330															
BSP SOL: 4.0 kts		FEATHER SOL: -2.43 °		NAVIGATION SYSTEM USED: C-Nav3050-Stern Mounted															
BSP EOL: 4.2 kts		FEATHER EOL: 0.91 °																	
WEATHER		MAX FEATHER: -3.2 °		GRAVITY METER: BMG-II: used, SN223															
WIND SOL: N 5.9 kts				MAGNETOMETER: Geometrics 882															
WIND EOL: NW 14 kts																			
SEAS SOL: 0.5 m		shift hours		Nav		shift hours		Acq											
SEAS EOL: 1.0 m		12:00 - 24:00		Cody Bahlau		12:00 - 24:00		Klay Kurtis											
		0:00-12:00		Alan Thompson		00:00 - 12:00		Todd Jensvold											
SP		UTC	EVENT	COMMENTS															
87294	294	12:01	SOL	SOL - 18 gun @ 3300 cuin, Orca Ref: 88001															
89835	2835	19:46	EOL	EOL - 18 gun @ 3300 cuin															
				VESSEL POSITION															
				Shotpoints		Latitude (N)		Longitude (W)											
				87294		17°00'30.10"		101°51'49.66"											
				89835		17°27'33.32"		101°29'37.59"											
						Latitude (N)		Longitude (W)											
				87294		17.008361		101.863795											
				89835		17.459256		101.493774											
				<table border="1"> <tr> <td>NRP - Stern</td> <td>29.5m</td> </tr> <tr> <td>NRP - COS</td> <td>240.0m</td> </tr> <tr> <td>NRP - CNG</td> <td>402.63m</td> </tr> <tr> <td>COS - CNG</td> <td>162.63m</td> </tr> <tr> <td>NRP - CMP</td> <td>321.31m</td> </tr> </table>						NRP - Stern	29.5m	NRP - COS	240.0m	NRP - CNG	402.63m	COS - CNG	162.63m	NRP - CMP	321.31m
NRP - Stern	29.5m																		
NRP - COS	240.0m																		
NRP - CNG	402.63m																		
COS - CNG	162.63m																		
NRP - CMP	321.31m																		
Posnet locations & remarks: good - none - intermittent				Forward	Center														
Tailbuoy #1	GOOD	GOOD	Gun string #1	GOOD	GOOD														
			Gun string #2	GOOD	GOOD														
						SP spacing: 25.0m													
						line status:		Complete											

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<b>Seq# 053</b>		<b>Line Name:</b> MGL2204053S201		<b>NAVIGATION</b>		<b>DATE:</b> 2022-06-28		 Lamont-Doherty Earth Observatory COLUMBIA UNIVERSITY   EARTH INSTITUTE																		
		<b>Line Brg :</b> 292.3 °		<b>LINE LOGS</b>		<b>JULIAN DAY:</b> 179																				
<b>CLIENT:</b> NSF - Anne Becel				<b>SURVEY:</b> MCS and OBS		<b>AREA:</b> Guerrero Gap, Mexico																				
DC SOL: 1.8 m		DEPTH SOL : 3049.0 m		NAVIGATION SYSTEM USED: C-Nav3050 - Primary																						
DC EOL: 1864.0 m		DEPTH EOL : 2913.0 m		NAVIGATION SYSTEM USED: SeaPath 330																						
BSP SOL: 4.6 kts		FEATHER SOL: 46.24 °		NAVIGATION SYSTEM USED: C-Nav3050-Stern Mounted																						
BSP EOL: 4.6 kts		FEATHER EOL: -1.37 °																								
WEATHER		MAX FEATHER: 50.49 °		GRAVITY METER: BMG-II: used, SN223																						
WIND SOL: N 6.6 kts				MAGNETOMETER: Geometrics 882																						
WIND EOL: S 4 kts																										
SEAS SOL: 1.0 m		<u>shift hours</u>		<u>Nav</u>		<u>shift hours</u>		<u>Acc</u>																		
SEAS EOL: 2.0 m		12:00 - 24:00		Cody Bahlau		12:00 - 24:00		Klay Kurtis																		
		0:00-12:00		Alan Thompson		00:00 - 12:00		Todd Jensvold																		
<b>SP</b>	<b>UTC</b>	<b>EVENT</b>	<b>COMMENTS</b>																							
99863	863	13:30	SOL	SOL - 18 guns @ 3300 cuin, Orca Ref: 98001																						
100748	1748	16:11	LGSP	Last Good Full Volume Shot Point																						
100749	1749	16:11	Power Down	Power Down; 1 gun @ 40 cu in																						
100878	1878	16:27	Ramp Up	Ramp Up; 1 gun @ 40 cuin																						
100908	1908	16:48	Full Volume	Full Volume; 18 guns @ 3300 cuin																						
101115	2115	17:32	EOL	EOL - 18 guns @ 3300 cuin																						
				<table border="1"> <thead> <tr> <th colspan="4">VESSEL POSITION</th> </tr> <tr> <th></th> <th>Shotpoints</th> <th>Latitude (N)</th> <th>Longitude (W)</th> </tr> </thead> <tbody> <tr> <td>FSP</td> <td>99863</td> <td>17°46'41.90"</td> <td>103°10'11.37"</td> </tr> <tr> <td>LSP</td> <td>101115</td> <td>17°54'39.27"</td> <td>103°25'57.12"</td> </tr> </tbody> </table>							VESSEL POSITION					Shotpoints	Latitude (N)	Longitude (W)	FSP	99863	17°46'41.90"	103°10'11.37"	LSP	101115	17°54'39.27"	103°25'57.12"
VESSEL POSITION																										
	Shotpoints	Latitude (N)	Longitude (W)																							
FSP	99863	17°46'41.90"	103°10'11.37"																							
LSP	101115	17°54'39.27"	103°25'57.12"																							
				<table border="1"> <thead> <tr> <th></th> <th>Latitude (N)</th> <th>Longitude (W)</th> </tr> </thead> <tbody> <tr> <td>FSP</td> <td>99863</td> <td>17.778306</td> <td>103.169824</td> </tr> <tr> <td>LSP</td> <td>101115</td> <td>17.910908</td> <td>103.432533</td> </tr> </tbody> </table>								Latitude (N)	Longitude (W)	FSP	99863	17.778306	103.169824	LSP	101115	17.910908	103.432533					
	Latitude (N)	Longitude (W)																								
FSP	99863	17.778306	103.169824																							
LSP	101115	17.910908	103.432533																							
				<table border="1"> <tbody> <tr> <td>NRP - Stern</td> <td>29.5m</td> </tr> <tr> <td>NRP - COS</td> <td>240.0m</td> </tr> <tr> <td>NRP - CNG</td> <td>402.63m</td> </tr> <tr> <td>COS - CNG</td> <td>162.63m</td> </tr> <tr> <td>NRP - CMP</td> <td>321.31m</td> </tr> </tbody> </table>							NRP - Stern	29.5m	NRP - COS	240.0m	NRP - CNG	402.63m	COS - CNG	162.63m	NRP - CMP	321.31m						
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NRP - CMP	321.31m																									
Posnet locations & remarks: good - none - intermittent				Forward	Center																					
Tailbuoy #1	Failed	Failed	Gun string #1	GOOD	GOOD																					
			Gun string #2	GOOD	GOOD																					
						SP spacing:	25.0m																			
						<b>line status:</b>	Complete																			

NRP – Stern	29.5m
NRP – COS	240.0m
NRP – CNG	402.63m
COS – CNG	162.63m
NRP – CMP	321.31m

Seq# 055

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