





Seq# 001		Line Name: MGL0905_01		NAVIGATION		DATE: 2009-04-02			
		Line Brg : 329.7 °		LINE LOGS		JULIAN DAY: 092			
CLIENT: National Science Foundation				SURVEY: Taiwan		MGL0905			
DC SOL : -4.3m		DEPTH SOL : 2591.2m		NAVIGATION SYSTEM USED: C-Nav - Primary					
DC EOL : -21.3m		DEPTH EOL : 97.4m		NAVIGATION SYSTEM USED: SeaPath 200					
SMG SOL: 6.2 knots		FEATHER SOL: -2.7 °		NAVIGATION SYSTEM USED: Pos MV					
SMG EOL: 4.4 knots		FEATHER EOL: -6.4 °		GRAVITY METER: BMG-II: used					
WEATHER		MAX FEATHER: 21.5 °		MAGNETOMETER: GeoMetrics: not used					
WIND SOL: 29 knots				MAG DEC USED : -3.12°					
WIND EOL: 16 knots									
SEAS SOL: 2-3m									
SEAS EOL: 2.0m									
				00:00 - 12:00 cst => Mike Tatro, Mike Martello					
				12:00 - 24:00 cst=> Ryan Eaton, Daid Martinson					
				COMMENTS					
SP	TIME(utc)	EVENT							
1211	04:21	SOL	Hot start line -- had issues at sol with seismic recording.						
1238	04:28	bad sp range	through sp 1250 d/t timing errors						
1251	04:32	fgsp	First good mcs recorded sp.						
4371	21:38	lgsp(rec)	Last good mcs recorded sp						
4560	22:49	EOL	End of line d/t recording problems						
				VESSEL POSITION					
				SP		Latitude (N)		Longitude (W)	
				FGSP		1251 21° 29' 00.325"		120° 21' 43.497"	
				LGSP		4560 22° 46' 16.127"		119° 32' 55.309"	
				NAVIGATION OFFSET APPLIED					
				NRP - Stern				4.20m	
				NRP - COS				193.70m	
				NRP - CNG				372.70m	
				COS - CNG				179.00m	
				NRP - CMP				283.20m	
				General remarks:					
				<div style="display: flex; justify-content: space-around;"> P1 P2 </div> <p style="font-size: small; text-align: center;">MGL0905_01.0.p190 MGL0905_01.0.p294</p> <div style="border: 2px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> 1 X 9m X 6000m </div>					
Posnet locations & remarks: good - none - intermittent		Acoustic remarks:		Langseth: Taiger1.L		2D_1x6.SCN(001)		Langseth.RTCN	
Tailbuoy #1	good	Gun string #1	good	S1C3 ko'ed at sol					
		Gun string #2	not working						
		Gun string #3	not working						
		Gun string #4	not working						
				SP spacing:		50m			
				line status:		Line Incomplete			


Seq# 002		Line Name: MGL0905_01R		<u>NAVIGATION</u>		DATE: 2009-04-03														
		Line Brg : 329.7 °		<u>LINE LOGS</u>		JULIAN DAY: 093														
CLIENT: National Science Foundation			SURVEY: Taiwan			MGL0905														
DC SOL : 8.7m		DEPTH SOL : 343.9m		NAVIGATION SYSTEM USED: C-Nav - Primary																
DC EOL : -23.6m		DEPTH EOL : 85.5m		NAVIGATION SYSTEM USED: SeaPath 200																
SMG SOL: 4.01 knots		FEATHER SOL: 12 °		NAVIGATION SYSTEM USED: Pos MV																
SMG EOL: 4.7 knots		FEATHER EOL: -17.9 °		GRAVITY METER: BMG-II: used																
<u>WEATHER</u>		MAX FEATHER: -23.9 °		MAGNETOMETER: GeoMetrics: not used																
WIND SOL: 14.1 knots				MAG DEC USED : -3.12°																
WIND EOL: knots																				
SEAS SOL: 1.2m																				
SEAS EOL: 1.0m																				
				00:00 - 12:00 cst => Mike Tatro, Mike Martello																
				12:00 - 24:00 cst=> Ryan Eaton, Daid Martinson																
				<u>COMMENTS</u>																
SP	TIME(utc)	EVENT																		
4072	10:38	FSP	Start of line																	
4228	11:45	OBS	Crossed OBS A12																	
4510	13:38	OBS	Crossed OBS A13																	
4852	15:47	EOL	Early eol d/t fishing boats on line																	
			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="3">VESSEL POSITION</th> </tr> <tr> <th>SP</th> <th>Latitude (N)</th> <th>Longitude (W)</th> </tr> <tr> <td>FGSP</td> <td>4072 22° 34' 53.576"</td> <td>119° 41' 00.220"</td> </tr> <tr> <td>LGSP</td> <td>4852 22° 53' 04.441"</td> <td>119° 28' 34.282"</td> </tr> </table>						VESSEL POSITION			SP	Latitude (N)	Longitude (W)	FGSP	4072 22° 34' 53.576"	119° 41' 00.220"	LGSP	4852 22° 53' 04.441"	119° 28' 34.282"
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NAVIGATION OFFSET APPLIED																				
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NRP - CMP	283.20m																			
			General remarks:																	
			<p>P1 P2</p> <p>MGL0905_01R.0.p190 MGL0905_01R.0.p294</p> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 10px auto;">1 X 9m X 6000m</div>																	
Posnet locations & remarks: good - none - intermittent			Acoustic remarks:																	
Tailbuoy #1	good	Gun string #1 Gun string #2 Gun string #3 Gun string #4	good not working good good	S1C3 ko'ed at sol																
			Langseth: Taiger1.L 2D_1x6.SCN(001) Langseth.RTCN																	
			SP spacing: 50m																	
			line status: Line Complete																	


Seq# 004		Line Name: MGL0905_03		<u>NAVIGATION</u>		DATE: 2009-04-03												
		Line Brg : 153.4 °		<u>LINE LOGS</u>		JULIAN DAY: 093												
CLIENT: National Science Foundation			SURVEY: Taiwan			MGL0905												
DC SOL : -79.6m		DEPTH SOL : 80.2m		NAVIGATION SYSTEM USED: C-Nav - Primary														
DC EOL : 57.5m		DEPTH EOL : 3078.4m		NAVIGATION SYSTEM USED: SeaPath 200														
SMG SOL: 3.8 knots		FEATHER SOL: -52.8 °		NAVIGATION SYSTEM USED: Pos MV														
SMG EOL: 4.3 knots		FEATHER EOL: -7.4 °		GRAVITY METER: BMG-II: used														
<u>WEATHER</u>		MAX FEATHER: -52.8 °		MAGNETOMETER: GeoMetrics: used														
WIND SOL: 10 knots		MAG DEC USED : -3.12°																
WIND EOL: 20.0 knots		00:00 - 12:00 cst => Mike Tatro, Mike Martello																
SEAS SOL: 0.7m		12:00 - 24:00 cst=> Ryan Eaton, Daid Martinson																
SEAS EOL: 1.2m																		
				<u>COMMENTS</u>														
SP	TIME(utc)	EVENT																
1022	20:24	FSP		Start of line														
1624	23:59	J day 093		Lsp of day														
1900	01:34	maggie		Recording data														
4348	16:33	LSP		End of line														
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				NRP - CNG 372.70m														
				COS - CNG 179.00m														
				NRP - CMP 283.20m														
				General remarks:														
				<p>P1 P2</p> <p>MGL0905_03.0.p190 MGL0905_03.0.p294</p> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 10px auto;">1 X 9m X 6000m</div>														
				Langseth: Taiger1.L 2D_1x6.SCN(001) Langseth.RTCN														
				SP spacing: 50m														
				line status: Line Complete														
<u>Posnet locations & remarks:</u> good - none - intermittent		<u>Acoustic remarks:</u>																
Tailbuoy #1	good	Gun string #1	intermittent	S1C3 ko'ed at sol														
		Gun string #2	not working															
		Gun string #3	good															
		Gun string #4	good															


Line Name: MGL0905_05		NAVIGATION		DATE: 2009-04-05													
Seq# 006		Line Brg : 347.1 °		JULIAN DAY: 095													
CLIENT: National Science Foundation		SURVEY: Taiwan		MGL0905													
DC SOL : 6.1m		DEPTH SOL : 2678.5m		NAVIGATION SYSTEM USED C-Nav - Primary													
DC EOL : 0.3m		DEPTH EOL : 78.0m		NAVIGATION SYSTEM USED SeaPath 200													
SMG SOL: 4.4 knots		FEATHER SOL: -34.6 °		NAVIGATION SYSTEM USED Pos MV													
SMG EOL: 3.2 knots		FEATHER EOL: 9.5 °		GRAVITY METER: BMG-II: used													
WEATHER		MAX FEATHER: -34.6 °		MAGNETOMETER: GeoMetrics: used													
WIND SOL: 18.5 knots				MAG DEC USED : -3.12°													
WIND EOL: 22 knots																	
SEAS SOL: 3.5m		00:00 - 12:00 cst => Mike Tatro, Mike Martello															
SEAS EOL: 4.4m		12:00 - 24:00 cst=> Ryan Eaton, David Martinson															
COMMENTS																	
SP	TIME(utc)	EVENT	Start of line														
814	05:10	FSP	Lsp of day at 22 03 18.620 N / 118 44 23.584														
3399	23:59	J day 095	End of line														
4310	05:47	LSP															
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			NRP - COS 193.70m														
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Posnet locations & remarks: good - none - intermittent			Acoustic remarks:														
Tailbuoy #1	good	Gun string #1 not working	Langseth: Taiger1.L 2D_1x6.SCN(001) Langseth:RTCN														
		Gun string #2 not working	SP spacing: 50m														
		Gun string #3 good	line status: Line Complete														
		Gun string #4 good															


Line Name: MGL0905_10		NAVIGATION		DATE: 2009-04-08																					
Line Brg : 221.5 °		LINE LOGS		JULIAN DAY: 098																					
Seq# 013		CLIENT: National Science Foundation		SURVEY: Taiwan																					
DC SOL : -131.8m		DEPTH SOL : 691.6m		NAVIGATION SYSTEM USED C-Nav - Primary																					
DC EOL : -15.5m		DEPTH EOL : 3445.7m		NAVIGATION SYSTEM USED SeaPath 200																					
SMG SOL: 4.5 knots		FEATHER EOL: 81 °		NAVIGATION SYSTEM USED Pos MV																					
SMG EOL: 4.6 knots		FEATHER EOL: 4.7 °		GRAVITY METER: BMG-II used																					
WEATHER		MAX FEATHER: 81 °		MAGNETOMETER: GeoMetrics used																					
WIND SOL: 8.5 knots				MAG DEC USED : -3.12°																					
WIND EOL: 10 knots																									
SEAS SOL: 1.0m		00:00 - 12:00 cst => Mike Tatro, Mike Martello																							
SEAS EOL: 1.0m		12:00 - 24:00 cst => Ryan Eaton, Deid Martinson																							
COMMENTS																									
SP	TIME(utc)	EVENT																							
1237	17:18	FGSP	First good shotpoint																						
1243	17:20	OBS	Crossing C1																						
1355	18:01	OBS	Crossing C2																						
1510	18:57	OBS	Crossing B10 C3																						
1689	20:02	OBS	Crossing C4																						
1863	21:06	24nm zone	Started logging magnetic, gravity, TSG, and multibeam data out of restricted zone																						
2091	22:39	OBS	Crossing C6																						
2274	23:59	J day 098	Lsp of day at 22 01 58.911 N / 119 47 19.587 E																						
2378	00:41	OBS	Crossing C7																						
2476	01:17	Source	Shut down source d/t compresso																						
2481	01:19	Source	Source good this shot - Compressor on line																						
2677	02:26	OBS	Crossing C8																						
2974	03:57	OBS	Crossing C9																						
3266	05:25	OBS	Crossing C10																						
3570	06:54	OBS	Crossing C11																						
3846	08:16	OBS	Crossing C12																						
4133	09:42	OBS	Crossing C13																						
4416	11:05	OBS	Crossing C14																						
4710	12:28	OBS	Crossing C15																						
5008	13:53	OBS	Crossing C16																						
7039	23:59	J day 099	Lsp of day at 20 24 34.898 N / 118 16 56.192 E																						
11165	23:59	J day 100	Lsp of day at 18 59 38.087 N / 117 00 09.730 E																						
12194	05:46	LGSP	EOL																						
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Posnet locations & remarks: good - none - intermittent			Acoustic remarks:																						
Tailbuoy #1	good	Gun string #1	not working	Langseth: Taiger1.L 2D_1x6.SCN(001) Langseth: RTCN																					
		Gun string #2	not working	SP spacing: 50m																					
		Gun string #3	good	line status: Line Complete																					
		Gun string #4	good																						


Seq# 015		Line Name: MGL0905_15		NAVIGATION		DATE: 2009-04-13														
		Line Brg : 308.2 °		LINE LOGS		JULIAN DAY: 103														
CLIENT: National Science Foundation			SURVEY: Taiwan			MGL0905														
DC SOL : 13.0m		DEPTH SOL : 3362.4m		NAVIGATION SYSTEM USED C-Nav - Primary																
DC EOL : 7.3m		DEPTH EOL : 2842.4m		NAVIGATION SYSTEM USED SeaPath 200																
SMG SOL: 4.3 knots		FEATHER SOL: 53.5 °		NAVIGATION SYSTEM USED Pos MV																
SMG EOL: 4.4 knots		FEATHER EOL: -5.8 °		GRAVITY METER: BMG-II: used																
WEATHER		MAX FEATHER: 53.5 °		MAGNETOMETER: GeoMetrics: used																
WIND SOL: 7 knots		00:00 - 12:00 cst => Mike Tatro, Mike Martello																		
WIND EOL: 30 knots		12:00 - 24:00 cst => Ryan Eaton, Deid Martinson																		
SEAS SOL: 0.6m																				
SEAS EOL: 0.6m																				
		COMMENTS																		
SP	TIME(utc)	EVENT																		
9911	17:30	FGSP	SOL-feather slow to come down																	
8810	23:59	J day 103	LSP of day at 19 04 39.904 N/119 57 38.630																	
6324	12:52	LGSP	End of line																	
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Posnet locations & remarks: good - none - intermittent			Acoustic remarks:																	
Tidebuoy #1	good	Gun string #1	not working																	
		Gun string #2	not working																	
		Gun string #3	good																	
		Gun string #4	good																	
				Langseth: Taiger1.L		2D_1x6.SCN(001)		Langseth: RTCN												
				SP spacing:		50m														
				line status:		Line Complete														


Seq# 017		Line Name: MGL0905_20		NAVIGATION		DATE: 2009-04-14														
		Line Brg : 352.1 °		LINE LOGS		JULIAN DAY: 104														
CLIENT: National Science Foundation			SURVEY: Taiwan			MGL0905														
DC SOL : 1421.9m		DEPTH SOL : 3419.3m		NAVIGATION SYSTEM USED C-Nav - Primary																
DC EOL : -1103.6m		DEPTH EOL : 79.4m		NAVIGATION SYSTEM USED SeaPath 200																
SMG SOL: 4.3 knots		FEATHER SOL: 34.0 °		NAVIGATION SYSTEM USED Pos MV																
SMG EOL: 3.9 knots		FEATHER EOL: 19.3 °		GRAVITY METER: BMG-II: used																
WEATHER		MAX FEATHER: 34.0 °		MAGNETOMETER: GeoMetrics: used																
WIND SOL: 7 knots		MAG DEC USED : -3.12°																		
WIND EOL: 6.5 knots		00:00 - 12:00 cst => Mike Tatro, Mike Martello																		
SEAS SOL: 0.5m		12:00 - 24:00 cst => Ryan Eaton, David Martinson																		
SEAS EOL: 0.5m																				
		COMMENTS																		
SP	TIME(utc)	EVENT	SOL																	
1022	20:25	FGSP																		
1238	23:59	J day 104		Lsp of day at 19 56 27.587 N / 119 37 37.532																
7332	09:22	LGSP	EOL																	
				<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SP</th> <th>Latitude (N)</th> <th>Longitude (E)</th> </tr> </thead> <tbody> <tr> <td>FGSP</td> <td>986</td> <td>19° 49' 42.095"</td> <td>119° 38' 39.949"</td> </tr> <tr> <td>LGSP</td> <td>7332</td> <td>22° 39' 47.044"</td> <td>119° 31' 41.265"</td> </tr> </tbody> </table>						SP	Latitude (N)	Longitude (E)	FGSP	986	19° 49' 42.095"	119° 38' 39.949"	LGSP	7332	22° 39' 47.044"	119° 31' 41.265"
SP	Latitude (N)	Longitude (E)																		
FGSP	986	19° 49' 42.095"	119° 38' 39.949"																	
LGSP	7332	22° 39' 47.044"	119° 31' 41.265"																	
				NAVIGATION OFFSET APPLIEE																
				NRP - Stern _____ 4.20m																
				NRP - COS _____ 193.70m																
				NRP - CNG _____ 372.70m																
				COS - CNG _____ 175.00m																
				NRP - CMP _____ 283.20m																
				General remarks:																
				<div style="display: flex; justify-content: space-around;"> P1 P2 </div> <div style="display: flex; justify-content: space-around; font-size: small;"> MGL0905_20.0.p190 MGL0905_20.0.p294 </div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto; text-align: center;"> 1 X 9m X 6000m </div>																
Posnet locations & remarks: good - none - intermittent				Acoustic remarks:																
Tailbuoy #1	good	Gun string #1	not working	Langseth: Taiger1.L 2D_1x6.SCN(001) Langseth: RTCN																
		Gun string #2	not working	SP spacing: 50m																
		Gun string #3	good	line status: Line Complete																
		Gun string #4	good																	


Seq# 018		Line Name: MGL0905_21		NAVIGATION		DATE: 2009-04-16												
		Line Brg : 240 °		LINE LOGS		JULIAN DAY: 106												
CLIENT: National Science Foundation			SURVEY: Taiwan			MGL0905												
DC SOL : -24.8m		DEPTH SOL : 73.8m		NAVIGATION SYSTEM USED C-Nav - Primary														
DC EOL : -351.4m		DEPTH EOL : 70.3m		NAVIGATION SYSTEM USED SeaPath 200														
SMG SOL: 4.1 knots		FEATHER SOL: -59.7 °		NAVIGATION SYSTEM USED Pos MV														
SMG EOL: 4.8 knots		FEATHER EOL: -8.4 °		GRAVITY METER: BMG-II: used														
WEATHER		MAX FEATHER: -59.7 °		MAGNETOMETER: GeoMetrics: used														
WIND SOL: 11 knots		MAG DEC USED : -3.12°																
WIND EOL: 15 knots		00:00 - 12:00 cst => Mike Tatro, Mike Martello																
SEAS SOL: 1.0m		12:00 - 24:00 cst => Ryan Eaton, David Martinson																
SEAS EOL: 1.0m		COMMENTS																
SP	TIME(utc)	EVENT	SOL															
1076	09:36	FGSP	EOL															
1450	12:16	LGSP	EOL															
				<table border="1"> <thead> <tr> <th>SP</th> <th>Latitude (N)</th> <th>Longitude (E)</th> </tr> </thead> <tbody> <tr> <td>1076</td> <td>22° 40' 11.566"</td> <td>119° 09' 41.646"</td> </tr> <tr> <td>1450</td> <td>22° 34' 57.751"</td> <td>119° 09' 20.574"</td> </tr> </tbody> </table>						SP	Latitude (N)	Longitude (E)	1076	22° 40' 11.566"	119° 09' 41.646"	1450	22° 34' 57.751"	119° 09' 20.574"
SP	Latitude (N)	Longitude (E)																
1076	22° 40' 11.566"	119° 09' 41.646"																
1450	22° 34' 57.751"	119° 09' 20.574"																
				NAVIGATION OFFSET APPLIEE														
				NRP - Stern		4.20m												
				NRP - COS		193.70m												
				NRP - CNG		372.70m												
				COS - CNG		175.00m												
				NRP - CMP		283.20m												
				General remarks:														
				<div style="text-align: center;"> <p>P1 P2</p> <p>MGL0905_21.0.p190 MGL0905_21.0.p294</p> <div style="border: 1px solid black; padding: 5px; display: inline-block;">1 X 9m X 6000m</div> </div>														
Posnet locations & remarks: good - none - intermittent				Acoustic remarks:														
Tailbuoy #1	good	Gun string #1	not working	Langseth: Taiger1.L 2D_1x6.SCN(001) Langseth: RTCN														
		Gun string #2	not working	SP spacing: 50m														
		Gun string #3	good	line status: Line Complete														
		Gun string #4	good															


Seq# 019		Line Name: MGL0905_22		NAVIGATION		DATE: 2009-04-16															
		Line Brg : 170 °		LINE LOGS		JULIAN DAY: 106															
CLIENT: National Science Foundation			SURVEY: Taiwan			MGL0905															
DC SOL : 436.4m		DEPTH SOL : 70.5m		NAVIGATION SYSTEM USED C-Nav - Primary																	
DC EOL : 25.0m		DEPTH EOL : 2960.1m		NAVIGATION SYSTEM USED SeaPath 200																	
SMG SOL: 4.9 knots		FEATHER SOL: -76.6 °		NAVIGATION SYSTEM USED Pos MV																	
SMG EOL: 5.6 knots		FEATHER EOL: 1.2 °		GRAVITY METER: BMG-II: used																	
WEATHER		MAX FEATHER: -76.6 °		MAGNETOMETER: GeoMetrics: used																	
WIND SOL: 17 knots		MAG DEC USED : -3.12°																			
WIND EOL: 10 knots		00:00 - 12:00 cst => Mike Tatro, Mike Martello																			
SEAS SOL: 1.5m		12:00 - 24:00 cst=> Ryan Eaton, Deid Martinson																			
SEAS EOL: 1.2m																					
		COMMENTS																			
SP	TIME(utc)	EVENT	SOL																		
1008	12:18	FGSP	SOL																		
2305	20:31	cable trim	Dive cable to 25m d/t ship crossing																		
2342	20:31	cable trim	Trim back to 9m																		
2913	23:59	J day 106	Lap of day at 21 43 54.170 N / 119 09 08.850																		
3685	03:47	LGSP	EOL																		
				<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>SP</th> <th>Latitude (N)</th> <th>Longitude (E)</th> </tr> </thead> <tbody> <tr> <td>FGSP</td> <td>1008</td> <td>22° 34' 50.976"</td> <td>119° 00' 17.091"</td> </tr> <tr> <td>LGSP</td> <td>3685</td> <td>21° 23' 15.956"</td> <td>119° 12' 47.441"</td> </tr> </tbody> </table>							SP	Latitude (N)	Longitude (E)	FGSP	1008	22° 34' 50.976"	119° 00' 17.091"	LGSP	3685	21° 23' 15.956"	119° 12' 47.441"
	SP	Latitude (N)	Longitude (E)																		
FGSP	1008	22° 34' 50.976"	119° 00' 17.091"																		
LGSP	3685	21° 23' 15.956"	119° 12' 47.441"																		
				NAVIGATION OFFSET APPLIEE																	
				NRP - Stern _____ 4.20m																	
				NRP - COS _____ 193.70m																	
				NRP - CNG _____ 372.70m																	
				COS - CNG _____ 175.00m																	
				NRP - CMP _____ 283.20m																	
				General remarks:																	
				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; text-align:center;">P1</td> <td style="width:50%; text-align:center;">P2</td> </tr> <tr> <td style="text-align:center;">MGL0905_22.0.p190</td> <td style="text-align:center;">MGL0905_22.0.p294</td> </tr> </table>						P1	P2	MGL0905_22.0.p190	MGL0905_22.0.p294								
P1	P2																				
MGL0905_22.0.p190	MGL0905_22.0.p294																				
				1 X 9m X 6000m																	
Posnet locations & remarks: good - none - intermittent				Acoustic remarks:																	
Tailbuoy #1	good	Gun string #1	not working	Langseth: Taiger1.L 2D_1x6.SCN(001) Langseth:RTCN																	
		Gun string #2	not working	SP spacing: 50m																	
		Gun string #3	good	line status: Line Complete																	
		Gun string #4	good																		


Line Name: MGL0905_23C		NAVIGATION		DATE: 2009-04-19			
Seq# 023		LINE LOGS		JULIAN DAY: 109			
CLIENT: National Science Foundation			SURVEY: Taiwan		MGL0905		
DC SOL : -64.4m		DEPTH SOL : 4790.1m		NAVIGATION SYSTEM USED C-Nav - Primary			
DC EOL : 814.9m		DEPTH EOL : 5448.5m		NAVIGATION SYSTEM USED SeaPath 200			
SMG SOL: 3.8 knots		FEATHER SOL: 78.2 °		NAVIGATION SYSTEM USED Pos MV			
SMG EOL: 5.0 knots		FEATHER EOL: 5.7 °		GRAVITY METER: BMG-II: used			
WEATHER		MAX FEATHER: 78.2 °		MAGNETOMETER: GeoMetrics: used			
WIND SOL: 20.4 knots		MAG DEC USED : -3.12°					
WIND EOL: 16 knots		00:00 - 12:00 cst => Mike Tatro, Mike Martello					
SEAS SOL: 2.0m		12:00 - 24:00 cst => Ryan Eaton, Deid Martinson					
SEAS EOL: 2.0m							
COMMENTS							
SP	TIME(utc)	EVENT					
7797	22:31	FGSP	Start of line - Strings 1, 2, 4 in use total volume of 5400cu ft				
7998	23:51	source	All strings in water firing				
8020	23:59	J day 109	Lsp of day at Z1 25 50.806 N / 122 35 36.483				
10890	17:20	LGSP	End of line				
NAVIGATION OFFSET APPLIEE							
NRP - Stern				4.20m			
NRP - COS				193.70m			
NRP - CNG				372.70m			
COS - CNG				175.00m			
NRP - CMP				283.20m			
General remarks:							
<div style="display: flex; justify-content: space-around;"> P1 P2 </div> <p>MGL0905_23C.0.p190 MGL0905_23C.0.p294</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">1 X 9m X 6000m</div>							
Posnet locations & remarks: good - none - intermittent			Acoustic remarks:				
Tailbuoy #1	good	Gun string #1	not working	Langseth: Taiger1.L			
		Gun string #2	not working	2D_1x6.SCN(001)			
		Gun string #3	quit	Langseth: RTCN			
		Gun string #4	good	SP spacing: 50m			
line status:				Line Complete			


Seq# 024		Line Name: MGL0905_24		NAVIGATION		DATE: 2009-04-20															
		Line Brg : 209 °		LINE LOGS		JULIAN DAY: 110															
CLIENT: National Science Foundation			SURVEY: Taiwan			MGL0905															
DC SOL : -1.0m		DEPTH SOL : 5421.6m		NAVIGATION SYSTEM USED C-Nav - Primary																	
DC EOL : 162.3m		DEPTH EOL : 5554.7m		NAVIGATION SYSTEM USED SeaPath 200																	
SMG SOL: 4.9 knots		FEATHER SOL: 71.3 °		NAVIGATION SYSTEM USED Pos MV																	
SMG EOL: 5.0 knots		FEATHER EOL: 8.0 °		GRAVITY METER: BMG-II: used																	
WEATHER		MAX FEATHER: 71.3 °		MAGNETOMETER: GeoMetrics: used																	
WIND SOL: 17.7 knots		MAG DEC USED : -3.12°																			
WIND EOL: 14.7 knots		00:00 - 12:00 cst => Mike Tatro, Mike Martello																			
SEAS SOL: 2.0m		12:00 - 24:00 cst => Ryan Eaton, Deid Martinson																			
SEAS EOL: 2.0m																					
SP		TIME(utc)		EVENT		COMMENTS															
1114	17:47	FGSP	Start of line - Strings 1, 3, 4 in use total volume of 5490cu ft																		
1677	21:04	source	All strings in water firing																		
1708	21:15	source	Gun volume is 6476																		
1777	21:41	speed	Increasing speed slowly with all guns firing to normal tension on stream																		
2268	23:59	J day 110	Lsp of day at 20 56 23.177 N / 123 43 07.045																		
3140	05:12	LGSP	EOL																		
						<table border="1"> <thead> <tr> <th>SP</th> <th>Latitude (N)</th> <th>Longitude (E)</th> </tr> </thead> <tbody> <tr> <td>1114</td> <td>21° 22' 19.438"</td> <td>123° 58' 24.929"</td> </tr> <tr> <td>3140</td> <td>20° 34' 18.731"</td> <td>123° 30' 04.480"</td> </tr> </tbody> </table>				SP	Latitude (N)	Longitude (E)	1114	21° 22' 19.438"	123° 58' 24.929"	3140	20° 34' 18.731"	123° 30' 04.480"			
SP	Latitude (N)	Longitude (E)																			
1114	21° 22' 19.438"	123° 58' 24.929"																			
3140	20° 34' 18.731"	123° 30' 04.480"																			
						<table border="1"> <thead> <tr> <th colspan="2">NAVIGATION OFFSET APPLIEE</th> </tr> </thead> <tbody> <tr> <td>NRP - Stern</td> <td>4.20m</td> </tr> <tr> <td>NRP - COS</td> <td>193.70m</td> </tr> <tr> <td>NRP - CNG</td> <td>372.70m</td> </tr> <tr> <td>COS - CNG</td> <td>175.00m</td> </tr> <tr> <td>NRP - CMP</td> <td>283.20m</td> </tr> </tbody> </table>				NAVIGATION OFFSET APPLIEE		NRP - Stern	4.20m	NRP - COS	193.70m	NRP - CNG	372.70m	COS - CNG	175.00m	NRP - CMP	283.20m
NAVIGATION OFFSET APPLIEE																					
NRP - Stern	4.20m																				
NRP - COS	193.70m																				
NRP - CNG	372.70m																				
COS - CNG	175.00m																				
NRP - CMP	283.20m																				
						<p>General remarks:</p> <div style="border: 1px solid black; width: 100px; height: 100px; margin: 20px auto; text-align: center;"> <p>1 X 9m X 6000m</p> </div>															
Posnet locations & remarks: good - none - intermittent		Acoustic remarks:		Langseth: Taiger1.L 2D_1x6.SCN(001) Langseth: RTCN																	
Tailbuoy #1	good	Gun string #1	not working	SP spacing: 50m																	
		Gun string #2	not working	line status: Line Complete																	
		Gun string #3	not working																		
		Gun string #4	good																		


Seq# 025		Line Name: MGL0905_25		NAVIGATION		DATE: 2009-04-21												
		Line Brg : 270 °		LINE LOGS		JULIAN DAY: 111												
CLIENT: National Science Foundation			SURVEY: Taiwan			MGL0905												
DC SOL : 146.0m		DEPTH SOL : 5553.1m		NAVIGATION SYSTEM USED C-Nav - Primary														
DC EOL : 1.1m		DEPTH EOL : 2659.4m		NAVIGATION SYSTEM USED SeaPath 200														
SMG SOL: 5.4 knots		FEATHER SOL: 66.8 °		NAVIGATION SYSTEM USED Pos MV														
SMG EOL: 2.8 knots		FEATHER EOL: 21.7 °		GRAVITY METER: BMG-II: used														
WEATHER		MAX FEATHER: 66.8 °		MAGNETOMETER: GeoMetrics: used														
WIND SOL: 14.1 knots		MAG DEC USED : -3.12°																
WIND EOL: 10.5 knots		00:00 - 12:00 cst => Mike Tatro, Mike Martello																
SEAS SOL: 1.5m		12:00 - 24:00 cst=> Ryan Eaton, David Martinson																
SEAS EOL: 1.0m																		
		COMMENTS																
SP	TIME(utc)	EVENT	SOL															
1013	05:17	FGSP																
3738	22:57	Feather	Max feather d/l strong currents was 45.1 degrees.															
3820	23:59	J day 111	Lsp of day at 20 34 44.612 N / 122 08 53.515															
3837	00:09	LGSP	End of line early d/l IHA restrictions around Batan Island															
				<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SP</th> <th>Latitude (N)</th> <th>Longitude (E)</th> </tr> </thead> <tbody> <tr> <td>FGSP</td> <td>1013 20° 34' 05.136"</td> <td>122° 08' 39.353"</td> </tr> <tr> <td>LGSP</td> <td>3837 20° 34' 44.566"</td> <td>122° 08' 24.177"</td> </tr> </tbody> </table>						SP	Latitude (N)	Longitude (E)	FGSP	1013 20° 34' 05.136"	122° 08' 39.353"	LGSP	3837 20° 34' 44.566"	122° 08' 24.177"
SP	Latitude (N)	Longitude (E)																
FGSP	1013 20° 34' 05.136"	122° 08' 39.353"																
LGSP	3837 20° 34' 44.566"	122° 08' 24.177"																
				NAVIGATION OFFSET APPLIEE														
				NRP - Stern _____ 4.20m														
				NRP - COS _____ 193.70m														
				NRP - CNG _____ 372.70m														
				COS - CNG _____ 175.00m														
				NRP - CMP _____ 283.20m														
				General remarks:														
				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; text-align:center;">P1</td> <td style="width:50%; text-align:center;">P2</td> </tr> <tr> <td style="text-align:center;">MGL0905_25.0.p190</td> <td style="text-align:center;">MGL0905_25.0.p294</td> </tr> </table>						P1	P2	MGL0905_25.0.p190	MGL0905_25.0.p294					
P1	P2																	
MGL0905_25.0.p190	MGL0905_25.0.p294																	
				1 X 9m X 6000m														
Posnet locations & remarks: good - none - intermittent			Acoustic remarks:			Langseth: Taiger1.L			2D_1x6.SCN(001) Langseth.RTCN									
Tailbuoy #1	good	Gun string #1 not working	Note sp 3688 to end of line - No ranges to/from acoustics source / streamer.						SP spacing: 50m									
		Gun string #2 not working							line status: Line Complete									
		Gun string #3 dropped out																
		Gun string #4 good																

Seq# 026		Line Name: MGL0905_25A		NAVIGATION		DATE: 2009-04-22															
		Line Brg : 270 °		LINE LOGS		JULIAN DAY: 112															
CLIENT: National Science Foundation			SURVEY: Taiwan			MGL0905															
DC SOL : -2.4m		DEPTH SOL : 1599.7m		NAVIGATION SYSTEM USED C-Nav - Primary																	
DC EOL : 4.3m		DEPTH EOL : 2774.2m		NAVIGATION SYSTEM USED SeaPath 200																	
SMG SOL: 4.6 knots		FEATHER SOL: 11.5 °		NAVIGATION SYSTEM USED Pos MV																	
SMG EOL: 4.3 knots		FEATHER EOL: 8.9 °		GRAVITY METER: BMG-II: used																	
WEATHER		MAX FEATHER: 24.2 °		MAGNETOMETER: GeoMetrics: used																	
WIND SOL: 16.2 knots		MAG DEC USED : -3.12°																			
WIND EOL: 17.5 knots		00:00 - 12:00 cst => Mike Tatro, Mike Martello																			
SEAS SOL: 2.0m		12:00 - 24:00 cst => Ryan Eaton, David Martinson																			
SEAS EOL: 2.0m																					
		COMMENTS																			
SP	TIME(utc)	EVENT	SOL																		
4884	07:12	FGSP																			
7680	13:54	EEZ6	Start logging TGS, Multibeam, and Knudsor																		
2691	02:34	Sea Path	Not working																		
2765	03:06	Sea Path	Back up.																		
				<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:5%;">SP</th> <th style="width:10%;">Latitude (N)</th> <th style="width:10%;">Longitude (E)</th> </tr> </thead> <tbody> <tr> <td>FGSP</td> <td>4884</td> <td>20° 34' 51.126"</td> <td>121° 38' 16.527"</td> </tr> <tr> <td>LGSP</td> <td>10341</td> <td>20° 34' 01.670"</td> <td>119° 01' 15.540"</td> </tr> </tbody> </table>						SP	Latitude (N)	Longitude (E)	FGSP	4884	20° 34' 51.126"	121° 38' 16.527"	LGSP	10341	20° 34' 01.670"	119° 01' 15.540"	
SP	Latitude (N)	Longitude (E)																			
FGSP	4884	20° 34' 51.126"	121° 38' 16.527"																		
LGSP	10341	20° 34' 01.670"	119° 01' 15.540"																		
				NAVIGATION OFFSET APPLIED																	
				NRP - Stern _____ 4.20m																	
				NRP - COS _____ 193.70m																	
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				General remarks:																	
				<div style="border: 1px solid black; padding: 5px; display: inline-block;"> 1 X 9m X 6000m </div>																	
				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;">Posnet locations & remarks: good - none - intermittent</td> <td style="width:30%;">Acoustic remarks:</td> <td style="width:40%;">Langseth: Taiger1.J 2D_1x6.SCN(001) Langseth.RTCN</td> </tr> <tr> <td>Tailbuoy #1 none</td> <td>Gun string #1 none</td> <td>SP spacing: 50m</td> </tr> <tr> <td>Gun string #2 none</td> <td>Gun string #3 none</td> <td>line status: Line Complete</td> </tr> <tr> <td>Gun string #4 good</td> <td></td> <td></td> </tr> </table>						Posnet locations & remarks: good - none - intermittent	Acoustic remarks:	Langseth: Taiger1.J 2D_1x6.SCN(001) Langseth.RTCN	Tailbuoy #1 none	Gun string #1 none	SP spacing: 50m	Gun string #2 none	Gun string #3 none	line status: Line Complete	Gun string #4 good		
Posnet locations & remarks: good - none - intermittent	Acoustic remarks:	Langseth: Taiger1.J 2D_1x6.SCN(001) Langseth.RTCN																			
Tailbuoy #1 none	Gun string #1 none	SP spacing: 50m																			
Gun string #2 none	Gun string #3 none	line status: Line Complete																			
Gun string #4 good																					

Seq# 027		Line Name: MGL0905_26		NAVIGATION		DATE: 2009-04-23																					
		Line Brg : 0 °		LINE LOGS		JULIAN DAY: 113																					
CLIENT: National Science Foundation			SURVEY: Taiwan			MGL0905																					
DC SOL : 352.2m		DEPTH SOL : 2771.3m		NAVIGATION SYSTEM USED C-Nav - Primary																							
DC EOL : 409.6m		DEPTH EOL : 2564.0m		NAVIGATION SYSTEM USED SeaPath 200																							
SMG SOL: 5.2 knots		FEATHER SOL: 90.7 °		NAVIGATION SYSTEM USED Pos MV																							
SMG EOL: 4.9 knots		FEATHER EOL: -0.2 °		GRAVITY METER: BMG-II: used																							
WEATHER		MAX FEATHER: 90.7 °		MAGNETOMETER: GeoMetrics: used																							
WIND SOL: 23 knots				MAG DEC USED : -3.12°																							
WIND EOL: 24 knots																											
SEAS SOL: 2.0m				00:00 - 12:00 cst => Mike Tatro, Mike Martello																							
SEAS EOL: 2.0m				12:00 - 24:00 cst => Ryan Eaton, David Martinson																							
				COMMENTS																							
SP	TIME(utc)	EVENT	SOL																								
1028	13:36	FGSP	SOL																								
1252	14:51	LGSP	EOL																								
2691	02:34	Sea Path	Not working																								
2765	03:06	Sea Path	Back up.																								
				<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;"></td> <td style="width:10%;">SP</td> <td style="width:10%;">Latitude (N)</td> <td style="width:10%;">Longitude (E)</td> <td colspan="2"></td> </tr> <tr> <td>FGSP</td> <td>1028</td> <td>20° 34' 44.038"</td> <td>119° 00' 12.162"</td> <td colspan="2"></td> </tr> <tr> <td>LGSP</td> <td>1252</td> <td>20° 40' 48.224"</td> <td>119° 00' 14.152"</td> <td colspan="2"></td> </tr> </table>							SP	Latitude (N)	Longitude (E)			FGSP	1028	20° 34' 44.038"	119° 00' 12.162"			LGSP	1252	20° 40' 48.224"	119° 00' 14.152"		
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FGSP	1028	20° 34' 44.038"	119° 00' 12.162"																								
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				NRP - CNG _____ 372.70m																							
				COS - CNG _____ 179.00m																							
				NRP - CMP _____ 283.20m																							
				General remarks:																							
				<div style="display: flex; justify-content: space-around;"> P1 P2 </div> <div style="display: flex; justify-content: space-around; font-size: small;"> MGL0905_26.0.p190 MGL0905_26.0.p294 </div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto; text-align: center;"> 1 X 9m X 6000m </div>																							
Posnet locations & remarks: good - none - intermittent				Acoustic remarks:																							
Tidebuoy #1	none	Gun string #1	none	Langseth: Taiger1.J 2D_1x6.SCN(001) Langseth.RTCN																							
		Gun string #2	none	SP spacing: 50m																							
		Gun string #3	none	line status: Line Complete																							
		Gun string #4	good																								

Seq# 029		Line Name: MGL0905_28		NAVIGATION		DATE: 2009-04-24			
		Line Brg : 090 °		LINE LOGS		JULIAN DAY: 114			
CLIENT: National Science Foundation			SURVEY: Taiwan			MGL0905			
DC SOL : -233.3m		DEPTH SOL : 879.7m		NAVIGATION SYSTEM USED C-Nav - Primary					
DC EOL : -8.7m		DEPTH EOL : 4837.6m		NAVIGATION SYSTEM USED SeaPath 200					
SMG SOL: 5.7 knots		FEATHER SOL: 30.7 °		NAVIGATION SYSTEM USED Pos MV					
SMG EOL: 5.1 knots		FEATHER EOL: 3.3 °		GRAVITY METER: BMG-II: used					
WEATHER		MAX FEATHER: 30.7 °		MAGNETOMETER: GeoMetrics: used					
WIND SOL: 2 knots		MAG DEC USED : -3.12°							
WIND EOL: 34.5 knots		00:00 - 12:00 cst => Mike Tatro, Mike Martello							
SEAS SOL: 0.5m		12:00 - 24:00 cst => Ryan Eaton, David Martinson							
SEAS EOL: 2.0m									
		COMMENTS							
SP	TIME(utc)	EVENT	SOL						
1027	21:34	FGSP							
1501	23:59	J day 114		Lsp of day at 21 47 02.359 N / 121 18 30.252					
2887	06:49	24nm zone		Exited restricted zone, started logging bathymetric, magnetics, gravity, and TSG					
3341	09:09	LGSP	EOL						
				FGSP	SP	Latitude (N)	Longitude (E)		
				LGSP	1027	21° 47' 07.733"	121° 04' 45.207"		
					3341	21° 46' 59.897"	122° 11' 52.809"		
				NAVIGATION OFFSET APPLIED					
				NRP - Stern	4.20m				
				NRP - COS	193.70m				
				NRP - CNG	372.70m				
				COS - CNG	179.00m				
				NRP - CMP	283.20m				
				<u>General remarks:</u>					
				P1	P2				
				MGL0905_28.0.p190	MGL0905_28.0.p294				
				1 X 9m X 6000m					
Posnet locations & remarks: good - none - intermittent			Acoustic remarks:						
Tailbuoy #1	none	Gun string #1	none	Langseth: Taiger1.J					
		Gun string #2	none	2D_1x6.SCN(001)					
		Gun string #3	none	Langseth: RTCN					
		Gun string #4	good	SP spacing: 50m					
				line status:					

Seq# 030		Line Name: MGL0905_29		NAVIGATION		DATE: 2009-04-25			
		Line Brg : 0 °		LINE LOGS		JULIAN DAY: 115			
CLIENT: National Science Foundation			SURVEY: Taiwan		MGL0905				
DC SOL : -36.5m		DEPTH SOL : 4813.3m		NAVIGATION SYSTEM USED C-Nav - Primary					
DC EOL : -61.7m		DEPTH EOL : 4827.3m		NAVIGATION SYSTEM USED SeaPath 200					
SMG SOL: 3.1 knots		FEATHER SOL: 8.4 °		NAVIGATION SYSTEM USED Pos MV					
SMG EOL: 4.5 knots		FEATHER EOL: -25.5 °		GRAVITY METER: BMG-II: used					
WEATHER		MAX FEATHER: -30.0 °		MAGNETOMETER: GeoMetrics: used					
WIND SOL: 32 knots		MAG DEC USED : -3.12°							
WIND EOL: 31 knots		00:00 - 12:00 cst => Mike Tatro, Mike Martello							
SEAS SOL: 2.5m		12:00 - 24:00 cst => Ryan Eaton, David Martinson							
SEAS EOL: 3.0m									
				COMMENTS					
SP	TIME(utc)	EVENT	SOL						
801	14:07	FGSP							
751	15:31	EEZ8	Start logging bathymetric's						
1165	18:31	source	String 1 tow rope broke, using only source string 2,3.						
1173	18:33	source	String tow rope broke, out of source solution						
1177	18:34	LGSP	End of line dA source towpoints broke entangling strings						
				NAVIGATION OFFSET APPLIED					
				NRP - Stern	4.20m				
				NRP - COS	193.70m				
				NRP - CNG	372.70m				
				COS - CNG	179.00m				
				NRP - CMP	283.20m				
				General remarks:					
				<div style="display: flex; justify-content: space-around;"> P1 P2 </div> <div style="display: flex; justify-content: space-around; font-size: small;"> MGL0905_29.0.p190 MGL0905_29.0.p294 </div> <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: 80px; text-align: center;"> 1 X 9m X 6000m </div>					
Posnet locations & remarks: good - none - intermittent		Acoustic remarks:		Langseth: Taiger1.J				2D_1x6.SCN(001)	Langseth.RTCN
Tailbuoy #1	none	Gun string #1	good	SP spacing:				50m	
		Gun string #2	none	line status:				Line incomplete	
		Gun string #3	none						
		Gun string #4	good						

Seq# 031		Line Name: MGL0905_34	NAVIGATION	DATE: 2009-04-26	
		Line Brg : 301.2 °	LINE LOGS	JULIAN DAY: 116	
CLIENT: National Science Foundation		SURVEY: Taiwan		MGL0905	
DC SOL : -4531.0m DC EOL : 761.1m SMG SOL: 3.4 knots SMG EOL: 3.7 knots		DEPTH SOL : 904.0m DEPTH EOL : 73.6m FEATHER SOL: -21.1 ° FEATHER EOL: -6.7 ° MAX FEATHER: -69.4 °		NAVIGATION SYSTEM USED C-Nav - Primary NAVIGATION SYSTEM USED SeaPath 200 NAVIGATION SYSTEM USED Pos MV GRAVITY METER: BMG-II: used MAGNETOMETER: GeoMetrics: used MAG DEC USED : -3.12°	
WEATHER WIND SOL: 25 knots WIND EOL: 24 knots SEAS SOL: 2.0-3.0m SEAS EOL: 2.0-3.0m		00:00 - 12:00 cst => Mike Tatro, Mike Martello 12:00 - 24:00 cst=> Ryan Eaton, David Martinson			
SP	TIME(utc)	EVENT	COMMENTS		
748	21:04	FGSP	SOL - Using strings 1, 2, 3, total volume of 5490cu in's. Distance crossline port 4531m. d/t turn or		
861	22:04	source	disable strings 3, only using strings 1 & 2 - Turn noise on streamer, 50 degree crab moving toward lin		
911	22:47	source	Using strings 1,2,3 again		
1003	23:59	J day 116	Lap of day at 21 53 35.153 N / 120 35 38.162		
1051	00:23	Offline	Cross over line by 3km to avoid fish traps on port side		
1140	00:57	Offline	Start retrun to line		
1551	03:25	Offline	Within 50m of study lin		
3977	18:21	Nav V1	Nav glitch to sp 3985		
4097	19:08	center beam	no data - sp4147		
4453	21:59	LGSP	Early eol d/t fishing boats on line		
NAVIGATION OFFSET APPLIET					
		NRP - Stern			4.20m
		NRP - COS			193.70m
		NRP - CNG			372.70m
		COS - CNG			179.00m
		NRP - CMP			283.20m
General remarks:					
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> 1 X 9m X 6000m </div>					
Posnet locations & remarks: good - none - intermittent		Acoustic remarks:			
Tailbuoy #1	none	Gun string #1	good	Langseth: Taiger1.J	2D_1x6.SCN(001)
		Gun string #2	none		Langseth: RTCN
		Gun string #3	good	SP spacing:	50m
		Gun string #4	none	line status:	

