85035 mar

OBSERVER'S MARINE REPORT

GYRE-85-6-11

U. S. GEOLOGICAL SURVEY
OFFICE OF ENERGY AND MARINE GEOLOGY

Woods Hole, Massachusetts

02543

85035
GYRE 104233
85-11

OBSERVER'S MARINE REPORT

85035mar

VESSEL G4REBS-~~6~~ 6-11 DATE Oct 8, 1985 # 1 line 1

Client	USGS	Type instrument	DFS-V	Offset distance	202m.
Area	gulf of Maine	Record filter	0-64 Hz	Group interval	50m
State	Maine. Calm	Sample rate	4ms	Fold coverage	24
Observer		gun depth	10m.	In.³ of guns	540in³ x 2

Pre-plot	Shotpoint	File No.	Time	#1dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		1	0233	140°	10.6/10.6/10.4/12.0		1	1	File 12 - S1 ERROR
									File 21, parity error
									File 55 - ~~S-1~~, parity
									file 111 parity
									file 112 parity
		143	0300	131	10.6/10.8/10.4/11.4		1	1	137-138 ~~#~~ port gun 2 shots
									File 173 parity
									221 parity
									275 parity
		~~288~~	~~0330~~	111	10.4/11.0/10.8/11.6		1	1	332 parity
									347 parity
									362 parity <418-1
		430	0400	111	11.4/11.4/11.0/11.6		2	1	439 "
		491	0413						491 parity
			0415						15° port streamer angle
			0426						553 parity
		568	0430	110	"				592 parity
									646 parity
									687 parity
		700	0500		11.4/11.2/10.8/10.4		2	1	13° port streamer angle
									748 parity
									777 parity
									790 parity Overdrive-42
			522						804 parity
									822 parity
		841	530						830 parity
							2	1	841 END OF TAPE
			530		9.2/9.2/10.0/11.0		3	1	842 New Tape
									~ 850 - 860 TAPE DRIVE OFF
									we missed about 9 shots on tape BY MISTAKE
									860 OK again
									873 parity
		957	0600		9.2/9.8/10.4/10.8		3	1	889 parity
	970		0601						streamer 21° port
	1016	1007	0612						check of shot vs file #'s
									1006 parity Overdrive-8
									1058 parity
		1084	0630						1084 025° streamer
									TURNING angle

OBSERVER'S MARINE REPORT

VESSEL GYRE-85-6-11 DATE 85OCT08 # 2 line 1

Client	U.S. GS	Type instrument	DFS V	Offset distance	202 m
Area	Gulf of Maine	Record filter	0-64 Hz	Group interval	50m
State	Calm	Sample rate	4 ms	Fold coverage	24
Observer		gun depth	10 meters	In.³ of guns	2 x 540

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		1150	0645				3	1	1152 parity
									1187 parity
	1220		0659+						1211 parity error
	~~1220~~	1214	0700		10.8/10.3/11.8/12.1				20° port streamer angle
			0703						1232 parity
			0711				3	1	1261 END of Tape 3
							4	1	1262 Start Tape 4
		1344	0730						
		1413	0745						
		1479	0800		11.2/10.8/11.6/13.0		4	1	Streamer angle 22° port
		1513	0807				4	1	1513 R1, R2, R3. parity error
		1605	?						1605 parity error 95
?	1615	1608							compare nav. sp to file # diff=7
		1620	0830		10.4/9.4/9.8/11.4		4	1	this is right
	1647	1639							nav SP vs. file # diff=8
	1655	1646							" " " 9
									1685 low
		1686	0845				5	1	1686 (1687?) change tape.
		1704	0848						1704 Parity error
		1720							1720 parity error.
		1721							1721 parity error.
		1723							1723 parity error
		1735							1735 parity error
									1742 parity error (33)
									1764 PE (93)
									1765 PE (93)
									1794 PE
			0911		11.8/10.6/11.2/12.0				1795 PE (95)
									1822 PE (99)
	1832	1824							sp. v.s. file #
	1837	1829	0915	070°					" "
		~~1915~~	1915	~~#~~					streamer angle - 21° port
		1852							1852 PE (98)
		1903	0937						1903 PE (95)
		~~1937~~	1937		11.6/10.4/11.4/13.6		5	1	streamer angle 22° port -
		1934							1934 PE (99)
		1964							1964 PE

OBSERVER'S MARINE REPORT

VESSEL 64RE85-6-11 DATE Oct 8, 1985 #3 Line 1

Client	USGS	Type instrument	DFS V	Offset distance	202 m
Area	Gulf of Maine	Record filter	0-64Hz	Group interval	50m
State		Sample rate	4ms.	Fold coverage	24
Observer		gun depth	10m	in.³ of guns	2×540

Pre-plot	Shotpoint	File No.	Time	~~#1dtr.~~ heading	Cable Depth	W.D.	Reel No.	Line No.	Remarks
			0946				5		
			0956		12.4/11.2/11.6/13.2				command to ~~tail~~ end of streamer ~~to~~ get shallower.
		2017	0956						2017 parity error.
		2030	1000		12.0/11.2/12.0/14.6				streamer angle - 22° port. tail of streamer doesn't want to come up — command it to go shallower, and it goes down & vice versa!
		2080	1011		12.4/11.2/11.6/12.4				2080 PE (99) ↑ it works, ~~[illegible]~~ ~~doesn't~~ Don't ask for reasons!
		2105					5		2105 EOT
		2106	1016				6	1	2106 SOT
		2133	1023						2133 PE —
		~~2130~~	1030		11.6/10.6/12.2/15.2				streamer < 22°; bird #4 at tail of streamer doesn't respond — ~~must be full of H₂O~~
			1043		12.6/10.6/10.8/13.2				
		2249	1049	057°					2249 PE
			1100	~~[illegible]~~	10.4/9.6/11.0/12.4				streamer angle - 17°
	2374	2366							check of NAV SP v.s. file #'s
									2400 PE
			1128		11.2/9.6/9.0/9.8				streamer angle 11°
			1145						2503 PE —
									2504 PE
		2529	1150				6		2529 change tape
		2530					7		2530
		2591	1204		11.2/10.0/9.6/11.2				2671 PE
			~~[illegible]~~						2694 PE
		2719	1230		11.6/9.8/9.8/10.8				2757 PE
									2758 PE
									2813 PE
									2814 PE
		2854			11.8/10.6/10.6/12.0	7			2891 PE
									2922 PE
		2946	1320				7		Change tape
									feather ∡ 15° P

OBSERVER'S MARINE REPORT

VESSEL 64RE85-6-11 DATE Oct 8 1985 # 4 line 1

Client	11868	Type instrument	DFS V	Offset distance	202m
Area	Gulf of Maine	Record filter	0-64Hz	Group interval	50m
State		Sample rate	4ms.	Fold coverage	24
Observer		gun depth	10m	In.³ of guns	2×540

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
	3000	2992	1330		10.6/10.4/10.4/12.4	61	8	1	3041 PE
									3099 PE
		3124	1400	39°	10.8/10.2/10.2/10.2	44.0			feather 4 15°
		3161	1410	POWER LOSS					3145 PE
			1433	on line	11.6/10.0/10.2/10.4				10° feather & after stop
	3191 =	3191	in sync						3222 PE
									3223 PE
									3258 PE
		3262	1500		8.6/9.6/9.2/9.2	13.8			compressor started 1505
									3301 PE
									3302 PE
		3369	1526						3358 PE
		3370					9		end tape 8; start 9
		3383	1530		9.6/9.8/9.4/8.8				3392 PE
									3434 PE
									3478 PE
		3502	1600		9.2/9.8/9.8/9.8				
									3575 PE
									3590 PE
									3625 PE
		3641	1630		10.0/10.4/10.2/10.0				
									3710 PE
		3788	1659				10		end of tape 9; start 10
									3798 PE
		3790	1700						3866 PE
									3868 PE
									3870 PE
									3871 PE
									3910 PE
									3913 PE
	? 3960	3957	1730						LAN SP & FN This offset is suspect.
									4012 PE
									4056 PE
									4057 PE
									4096 PE R-9 S-
	? 4120	4115	1800		11.0/10.4/10.4/10				This offset between SP & FN is suspect.
									4125 PE
									4126 PE

OBSERVER'S MARINE REPORT

VESSEL GYRE 85-G-11 DATE Oct. 8, 1985 # 5 line 1

Client	USGS	Type instrument	DFS-V	Offset distance	202m.
Area	Gulf of Maine	Record filter	0-64 Hz	Group interval	50m
State		Sample rate	4 ms	Fold coverage	24
Observer		gun depth	10m	In.³ of guns	2 X 540

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
							10	1	4157 PE
		4210	1817				10	1	end of tape 10 start 11
									when unloading tape 10 - very
									beginning of tape got bent - lock
		4266	1827						4266 PE
	?	4281	1830		10.8/10.4/11.2/11.2		11	1	operating depth 24m 5.
	? 4460	4456	1900		9.8/10.0/9.6/9.0		11	1	(1456 back to 13b)
									4496 PE
									4508 PE (97)
			1917						4567 PE
		4626	1926				12	1	end of Tape 11 ; start 12
		4651	1930		11.0/10.4/10.0/10.2				
			1943						4737 PE
			1956						4816 PE
									Deck #1 having trouble
									loading tapes
			1958						4832 PE
		4839	2000		11.2/10.4/10.0/10.4				change watch Treffy, Stewart, Leeds
		4869							4869 PE
		4896							4896 PE.
		4989							4989 PE
			2030		11.2/10.4/10.6/10.6	197.8m			Tape drive #1 back on line.
		5049					12		5049 EOT
		5050	2035				13	1	5050 - start new tape
									streamer angle 7° port.
			2101		11.8/10.6/10.4/10.0	207.4m			5196 PE
			2104						change filter on.
									near trace monitor —
									10-60 Hz from 2-60
			2105						slow down to 4.5 kts —
	4368	5266							
	4369	5267							
			2118						5274 PE —
	5284	5282							→ SP out of sync. - NAV
									has 2 readings
									May have occurred
									during fixing of
									tape drive #1

OBSERVER'S MARINE REPORT

VESSEL 64RE85-G-11 DATE Oct 8, 1985 (Oct 9) # 6 final

Client	USGS.	Type instrument	DFS-V	Offset distance	202m
Area	Gulf of Maine	Record filter	0-64 Hz.	Group interval	50 m.
State	Calm	Sample rate	4 ms.	Fold coverage	24
Observer		gun depth	10m	In.³ of guns	2x540.

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		5330	2130	43	11.2/10.4/11.2/12.0	21.4m	13	1	streamer angle. 5° port.
		5463	2200		12.0/10.8/11.6/12.8	209.9	13	1	5463 EOT
		5464					14	1	5464 Start Type streamer ∠ 12° port
		5493	2205						5493 PE.
	5500	5498							
	5540	5538							
		5615	2230	44	12.0/11.0/11.2/12.6	192.5	14	1	streamer angle - 0°
		5695							5695 PEL
		5770	2300	37	10.8/10.6/11.4/12.2	193m			streamer angle 10°
		5884	2321				14	1	EOT
		5885		33			15	1	Start Type 15
		5910	2326						5910 PE.
		5932	2330		11/10.6/11.6/12.8	193.8m			streamer angle 13° port.
									5932 PE
	5952	5950	[redacted]						→ still off by 2 pom NAV
			2357						trouble w/ Loran - shots
Oct. 9					11.2/10.8/11.4/12.0	193.0			seem somewhat erratic
		6094	0000						6094 streamer ∠ 13° port.
	6137	6132	0007						c/A 2° port SHOTS OFF BY 5
		6145							Parity error
		6166	0013						c/A 3° port
		6257	0030	32°	11.4/10.6/11.6/12.8	193.0	15	1	FA 14° port
		6302	0039				15		End reel 15
		6320					16		c/A 5° port
		6306							PE
Calibrated by phone ???	6417	6411	0100	22°	10.6/10.4/11.8/13.8	193	16	1	SPD over ground decreasing - current
		6550	0130		10.4/10.4/11.2/12.0	193.4	16	1	may be why DT reading deeper lower
	6563	6558							shots off by 5
		6582	0137						FA 15° port
		6640	0149						c/A 10° starboard
		6676	0156						c/A 10° starboard
		6695	0200	47.0	9.4/9.4/10.4/11.6	194.2	16	1	
	6719	6714	0204						FA = 10°
		6722	0205						c/A 10° starboard
		6841	0229				17	1	c/A 3° starboard
		6846	0230	56.0	9.4/9.8/11.2/12.4	206	17	1	
		6861							FA 15° port
	6885	6880	[redacted]						still off by 5 SP.

OBSERVER'S MARINE REPORT

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VESSEL GYRE-85-G-11 DATE 09 Oct 1985 line 1

Client	USGS	Type instrument	DFS-V	Offset distance	202m
Area	Gulf of Maine	Record filter	0-64 Hz	Group interval	50 m
State	Calm	Sample rate	4ms	Fold coverage	24
Observer		gun depth	10m	In.³ of guns	2 x 540 in

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		6999	0300		10.8/10.6/10.8/11.6	259	17	1	
	7015	7010	0302	57.1					FA 14° port
		7095	0318						c/a 2° stbd.
		7159	0330	58.7	10.6/10.2/11.0/12.0		18	1	
		7242	0345						
		7325	0400	1	11.2/10.8/11.2/12.2	199			FA 10° ~~[illegible]~~ port
		~~[illegible]~~							7379 parity
	7425	7421	0418						End of line 1
		~~3~~	~~0418~~					~~2~~	~~Start of line~~ 2

EOL 1

OBSERVER'S MARINE REPORT

VESSEL GYRE-85-6-11 DATE 85OCT09 # 1 line 2

Client	USGS	Type instrument	DSF II	Offset distance	202 m
Area	Gulf of Maine	Record filter	0 - 64 Hz	Group interval	50 m
State	Calm	Sample rate	4 ms	Fold coverage	24
Observer		gun depth	10 m	In.³ of guns	2 x 540 in³

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		3	0418				19	2	Start of line 2
			0430		11.2/10.8/11.6/13.8				Rim, Sarah, John on duty @ 000
	110	112	0443						navigation has two extra File # before shot of #2
		177	0500		9.6/10.0/10.2/11.0				
		~~371~~	~~530~~						233 parity error
		311	530						14° port - stream anchor
	367	369	543						
		370	544						parity error
		415	554						EOT
		416	554				20	2	START Tape 20
			600						
		467	605		10.0/10.0/10.0/10.8				parity error
		487	609						" "
		578	630						
	637	639	643						file/sp. check
		710	0700		9.6/10.0/10.8/12.0				
		727	0704		-				727 P.Error
		836	0729				21	2	end of tape 20; start 21
		839	0730		9.8/10.8/12.0/13.4				
	906	908	0747						file/sp check
		960	0800		11.2/10.8/10.8/11.2				
									Change Watch: Trehu, Stewart, Leeds
		1018	0815						1018 P.E.
		1097	0835		9.8/10.0/10.2/10.0				~~1123 P.E.~~ streamer 13° port
		1123	0842						1123 P.E.
	1129	1131	0844						file/sp check
		1195	0900		10.0/10.2/10.4/9.6				24° port - streamer
		1228	0909						1228 P.E.
		1252	0915				21	2	end reel #21
		1253	0915				22	2	start reel #22
		1312	0930		10.4/10.4/10.4/10.0				streamer tail buoy: 21° port
	1357	1359	0942						file/sp check
		1390	0950						EOL 2

EOL

OBSERVER'S MARINE REPORT

VESSEL GYRE85-G-11 DATE Oct 09, '85 line 3 # page 1 line 3

Client	USGS	Type instrument	DFSV	Offset distance	202m
Area	Gulf of Maine	Record filter	0-64Hz	Group interval	50m
State	15-25kts SW choppy	Sample rate	4ms	Fold coverage	24
Observer		gun depth	10m.	In.³ of guns	2×540in³

Pre-plot	Shotpoint	File No.	Time	#1dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		1	1325		12.6/11.2/12.2/15.4		23	3	check for PE burst
		19	1330	227	11.8/11.2/12.2/13.8	195	23	3	FA 10° port
		40							ADD 4ms delay to stbd gun.
		108							PE 98
		136	1400	241	13.2/11.2/12.6/14.6	195	23	3	c/a 5° starboard
		228							PE & Overdrive
		247	1430	238	12.8/11.2/12.6/13.8	195	23	3	
		314							PE & overdrive
		315							PE & "
		337							c/a 5° port
		346							PE & overdrive
		352	1500	221	13.0/11.6/13.2/15.0	196	23	3	
		393							PE & overdrive
		394							PE
	411	410							SP & FFID off by 1 -
									could be from start of line.
		416							c/a 5° starboard
		417							EOT #23
		918							BOT #24
		426	1522						FA 18° PORT
		450	1530	214	12.8/12.4/15.4/17.4	195	24	3	
	548	547	1600		13.4/12.4/14.8/16.6		24	3	
		659	1630				24	3	c/a 10° port
		685							parity error
		787	1700		9.0/9.8/10.8/10.2				
	823	822	1709						
		837							low parity
		842?					~~25~~		EOT #24
		843?	1713				25		Start #25
		927	1730		8.4/9.6/10.0/10.0				
		1075							Parity
		1090	1800		9.4/10.0/10.0/10.0				C/A 10° PORT
		1167	1814						parity error 1167
		1206	1822						parity error 1206 + overdrive
		1245	1830		9.6/10.4/11.2/11.6				
		1255	1832				26	3	end of tape 25; Start 26
		1390	1900		9.8/9.8/10.4/11.8		26	3	streamer angle ~ 8° port
		1464	1915						

12° P.

OBSERVER'S MARINE REPORT

line 3
#p.2

VESSEL GYRE 85-G-11 DATE Oct 9, 1985

Client	USGS	Type instrument	DFS-V	Offset distance	202m
Area	Gulf of Maine	Record filter	0-64 Hz	Group interval	50m
State	choppy, squalls	Sample rate	4ms	Fold coverage	24
Observer		gun depth	10m	In.³ of guns	2 x 540 in³

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		1531	1930						windy - choppy seas
		1541							parity error
		1601	1945						
		1671	2000		8.4/9.4/9.2/10.0				
		1678?	2001				27	3	end of tape 26 start 27
									tape 26 got crinkled
									when unloaded - just past
									tape marker (wing ~ file 1655)
									channel 7 intermittent -
		1750							channel 7 ok for now - I'll
									keep an eye on it -
			2030		9.6/10.0/10.0/11.2	197.9			streamer ∢ 9° port.
	1859	1858	2039						file/SP check
			2041						head of streamer running a bit
									shallow - will try to adjust
			2045						streamer ≈ level now
									water speed ≈ 5.3 knots
			2047						Anne adjusted gun sync.
		1932							PE
			2100		10.0/10.0/9.8/10.2	175m.			streamer ∢ 9°
	1976	1975	2103						
									EPC to
									near trace monitor down
		2093					27	3	~ 2100
		2094					28	3	
			2140						SPC back on —
		2252	2200		8.8/9.6/10.0/9.9	183m.			streamer ∢ 5°
		2390	2230		9.8/10.8/10.4/10.6				tail buoy 7° Port
		2426	2238						2426 → P. Error
	2458	2457	2245						file/SP comparison
		2507	2255						port gun off line —
		2514							PE
		2576	2257				28	3	
		2517					29	3	
		2524	2300		8.4/9.8/10.2/10.0				streamer ∢ 4°
			2315						slow down to 2 kts to
									retreive guns.
			2320						pick up speed again -
									streamer head went
									below 30m for a few
									minutes. rest of streamer @20

OBSERVER'S MARINE REPORT

VESSEL RE G485-G-11 DATE Oct 9 1985 (Oct. 10) # Line 3 p3

Client	USGS	Type instrument	DFS V	Offset distance	202m
Area	Gulf of Maine	Record filter	0-64 Hz	Group interval	50m
State	choppy	Sample rate	4ms	Fold coverage	24
Observer		gun depth	10m	In.³ of guns	2x540 in³

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		2657	2330		11.6/10.6/12.0/13.4		29	3	streamer tail still making its way up.
	2678	2677	2335						comparison of file # 80/sp.
			2338						speed down to ~1.8 kts.
			2340						and back up again to put guns in water
		2706	2343						port gun back on line.
Oct. 10		2798	0000		9.6/10.0/10.8/9.2	173m.			streamer ∠ 4° port
		2874	0016						LAST SHOT
									close down for rough
									weather 7' seas building
					EOL 3				

OBSERVER'S MARINE REPORT

line 4 # pg1

VESSEL GYRE -85-6-11 DATE 13 Oct 85

Client	USGS	Type instrument	DFS V	Offset distance	202 m
Area	GULF OF MAINE	Record filter	OUT -64	Group interval	50m
State		Sample rate	4ms	Fold coverage	23
Observer		gun depth	10m	in.³ of guns	2 x 540

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
	74	1	1445	55	13.8/7.4/19.8/16.6	249	30	4	ch 7 out
	14	14	1448						Shots reset - 7 is back
	76	76	1500		9.6/10.4/10.4/9.6	256			
	120	120	1510						Compressors down —
									salt water pump.
	144	144	1514						Back on, files reset —
									No data recorded file 121-143
		163	1518						P.E.
		180							P.E
		185							ch. 7 out again
		223	1530		10.2/10.0/10.2/10.2	263			
		247	1536						ch 7 taken offline
									NB Tail buoy ADF not working
									∴ no feather angles.
		338							c/A 3° port
		365	1600		10.8/11.2/11.2/11.0	260			
		432	1615						
		448	1618						448 parity error
									End of Tape # 30
		449	1619						Start tape # 31
		503	1630						
		558	1645						
		622	1700						ITB file 614-615
									652 parity?
									file 672 ITB
									674 ITB
		686	1715						file 682 = shot 682 ✓
									733 ITB
		754	1730		10.1/9.8/28/10.3				735 ITB
		826	1745						759 ITB
		867	1754				32		end of Tape 31; start 32
		896	1800						
		980							Surface Streamer
			1823		3.2/0.0/1.2/1.2				Twig pulling up streamer
									crossing two buoys
		1014	1823						PE
		1015	1824						PE
		1045	1830		8.4/5.6/10.8/10.2				lowering streamer again

OBSERVER'S MARINE REPORT

VESSEL GYRE -85-6-11 DATE 13 Oct. 1985 line 4 # pg 2

Client	USGS	Type instrument	DFS-V	Offset distance	202m
Area	Gulf of Maine	Record filter	ot-64	Group interval	50m
State		Sample rate	4ms	Fold coverage	23
Observer		gun depth	10m	In.³ of guns	2x540

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		1097	1840		10.6/10.2/9.6/9.6		32	4	Streamer back to ~10m
		1121	1845						
		1200	1900		11.6/12.4/12.6/11.0		32	4	1151 parity error
		1279	1915						1235 parity error
		1292	1918				33	4	end of Tape 32; Start 33
		1350	1930						
		1497	2000		11.6/13.4/12.4/11.8		33	4	
		1572	2015						
		1648							Parity error at 1648
		1654	2030		11.4/11.2/11.6/11.5				
		1714	2040						end of tape 33, Start 34 (1715)
		1740	2045				34	4	
	1798 =	1798	2055						
		1827	2100						
		1916	2115		11.4/11.6/12.6/12.2				Parity error 1834
		2000	2130		10.8/11.8/11.2/10.0	205			
		2017	2133						Parity Error
		2082	2145			206			
		2136	2155				34		End Reel 34
		2137	2155				35	4	Start Reel 35
		2161	2200		11.0/11.8/11.2/10.8	210			
		2238	2215						
		2316	2230		11.2/12.0/11.2/10.4				
			2232						Tommy adjusted gain on shot instant;
									shot instants before this may be
		2396	2245						off (between files 1976 & 2316)
		2476	2300						
		2490	2302						P.E.
		2554	2315				35	4	End Reel 35
		2555	2315				36		Begin Reel 36
		2558	2315						ITB
		2559	2315						ITB gain adjusted
		2634	2330						
		2713	2345						
	2718 =	2718	2346						
		2794	0000						
		2795							P.E.
		2798							ITB
		2832	07				36		ITB
		36							ITB

OBSERVER'S MARINE REPORT

VESSEL Gyre -85-6-11 DATE 14 Oct 85

line 4 # page 3

Client	USGS	Type instrument	DFS-V	Offset distance	202 m.
Area	Gulf of Maine	Record filter	out 64	Group interval	50 m
State		Sample rate	4 ms	Fold coverage	23
Observer		gun depth	10 m	In.³ of guns	2x540

Pre-plot	Shotpoint	File No.	Time	#1dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		2877	0015		11.2/12.0/11.2/10.6/		36	4	ITB
		2880							ITB
		2881							ITB
		2894							ITB
		2900							PE garn adjust TWIG
	2958	2958	0030		11.2/12.8/12.0/10.6	255	36	4	
		2977					37		change tape / but imp. thread
		2980	0034		a start, not at start of tape				lost first 3 shots, blank start.
		3052	0045		14.2/15.8/15.2/12.8				
		3077							ITB
		3078							ITB
		3118	0100		10.8/12.0/15.2/13.8				
		3136							PE
		3196	0115		10.6/10.0/11.8/12.4	202			ITB
		3228	0120						PE
		3276	0130		10.4/10.4/9.6/9.2				ITB
		3278, 79, 80,			-				ITB
		3318	0138						ITB
		3356	0145		12.0/10.8/10.8/10.6				
		3369							PE
		3387	0151						change course / start turn
		3388	0151				38	4	tape change
		3431	0200		12.4/14.2/16.0/16.0		38	4	
		3498	0213						ITB
		3510	0215		8.4/4.4/5.0/6.8/		3		
		3514	0216						ITB
		3557	~~0220~~						ITB
		3593	0220		9.2, 9.0, 9.6, 8.8				
		3634	0236		end line			4	
		1	0236				39	5	see next page

EOL 4

OBSERVER'S MARINE REPORT

VESSEL Gyre DATE 14 Oct 85 Line 5 # page 1

Client	USGS	Type instrument	DFS-V	Offset distance	202
Area	Gulf of Maine	Record filter	out-64	Group interval	50
State		Sample rate	4 ms	Fold coverage	23
Observer		gun depth	10 m	In.³ of guns	2×540

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		1	0236	146±	88/9.2/10.2/9.2		39	5	
		54	0245		11.6/11.0/12.0/10.8				
	*	56, 57, 58, 59,							ITB
		140	0300	146	11.6/11.4/11.6/10.0		39	5	
		228	0315						
	*	229, 230, 231, 232,							ITB
		262							c/adj 3° port
		291							c/adj 5° port
		313	0330	145	11.6/12.0/12.2/11.2				
		317							ITP
		345							ITP
		353							PE
		392	0345						
		418	0349				39	5	
		419	0349				40		Change tape
		470	0400		14.6/14.6/13.6/11.8				
		475							ITB
			0410-		?/16/21.4/?				Tom - adjusting streamer depth
		615	0430		12.2/8.0/16.0/14.4				still adjusting - doesn't respond well
		649	0436						parity error
		650	0436						parity error
	671	671	0440						check sp# and file #
		727	0450		13.4/11.8/16.0/14.6				← streamer set here
		781	0500		14.8/12.0/15.6/14.6				
		842	0511				41	5	end of tape 40; start 41
		959	0530		13.4/11.0/14.2/13.6				
		1049	0544						
		1165	0600		11.4/10.8/15.0/13.4		41	5	
		1260	0614						1260 end tape #41
		1377	0630						1261 Start tape #42
		1487	0645						1380 ITB
									1384 ITB
									1427 ITB
									1437 ITB
									1461 ITB
		1593	0700		12.4/11.6/15.8/15.0		41	5	
		1683	0712						end of tape 41; Start 42
		1702	0715		13.2/12.0/15.2/15.2				

OBSERVER'S MARINE REPORT

VESSEL GYRE DATE 14 Oct. 1985 # line 5 p.2

Client	USGS	Type instrument	DFS V	Offset distance	202
Area	Gulf of Maine	Record filter	out 64	Group interval	50
State		Sample rate	4 ms	Fold coverage	23
Observer		gun depth	10m	in.³ of AIR guns	2 X 540

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		1790	0728				42	5	ITB
		1808	0730		15.8/17.4/18.2/17.0		42	5	
		1828	0734						NO SHOTS – computer hung up
		1829	0742						continuing
	1834	1832							
		1851	0745		12.8/15.6/18.0/15.6		42	5	
	1933	1931	0758		13.4/17.0/18.0/17.0				EOL 5

OBSERVER'S MARINE REPORT

VESSEL Gyre 85-G-11 DATE Oct. 14, 1985 # line 6 p1

Client	USGS	Type instrument	DFS V	Offset distance	202
Area	Gulf of Maine	Record filter	Out 64	Group interval	50
State		Sample rate	4ms	Fold coverage	23
Observer		gun depth	10m	In.³ of guns	2x540

Pre-plot	Shotpoint	File No.	Time	#1dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
	1	1	1659		15.8/21.6/26.0/25		44	6	first 3sp. may not be on tape
									one gun firing at 50L
			1713						Channel 7 off line
		57	1715						1-540 cu in gun only
		60 - see T-0							working
									Chand 1 has leakage
									of 20K
		91	1722						file 91 parity error
									~~[illegible]~~
									028 c/a 20° Port
									first 132 shots
									may have bad initial time
		155 Bad T-0							break triggering off of
									noise.
									152-153 ITBs
									162 parity error
		190	1745		11.8/11.2/11.8/10.0		44	6	190 Bad T-0
		251	1800		11.2/11.2/11.2/10.2		44		252 - Bad - T-0
		256	1801						ITB
		284	1808						parity error
		304	1813						parity error
		305	1813						parity error
									316 ITB
									331 ITB 332 ITB
		378	1830		11.0/10.8/10.8/10.8		44	6	379 ITB 380 ITB
									381 ITB
									389 Bad T-0 391 ITB
									405 ITB 406 ITB 408 ITB
									Nichols & O'Brien working on
									trigger problem
		420	1840	326°			44	6	End of Tape 44 file 420
									Start Tape 45 file 421
									file 421 parity error - labelled #
									file 422 labelled properly
									450 ITB
		497	1858						parity error
		507	1900		11.8/11.0/10.8/8.8		45	6	
		563							ITB

OBSERVER'S MARINE REPORT

VESSEL GYRE DATE 14 Oct. 1985 # line 6 p. 2

Client	USGS	Type instrument	DFS V	Offset distance	202
Area	Gulf of Maine	Record filter	out 64	Group interval	50
State		Sample rate	4ms	Fold coverage	23
Observer		gun depth	10 m	In.³ of guns	2 x 540

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		637	1930		12.6/12.0/11.2/9.2		45	6	
		689	1943						ITB
		701	1946						ITB
		722	1951						Parity error
		748	1957						ITB
		750	1957						ITB
		761	2000		12.2/11.2/11.8/9.8	294			
		810	2011						ITB 810
		829	2015						ITB 829
		830	2015						ITB 830
		843	2018						END of Reel 45 file 843
		844	2019				46	6	Start Reel 46 844
	901 =	901	2031		11.0/10.0/11.0/8.6	280			
		966	2045						
		969	2045						ITB
		988	2048						ITB
		990	2049						ITB
		1020	2054						Parity error 13
		1021	2056						" " 21
		1044	2100			270			
		1045	2101						ITB
		1046							ITB
		1047							ITB
		1048							ITB
		1122	2115						
		1168-71	2125						ITB's
		1186	2127						FA 20° port
		1196	2130		10.0/10.4/12.2/10.4	230			ITB
		1231							Port gun didn't fire
		1233							
		1260							End tape 46
		1261	2142				47	6	Start tape 47
									1281 ITB 1282 ITB
									1284 ITB 1288 ITB
									1290 ITB
		1349	2156						ITB
		1360	2200		9.2/9.8/10.4/9.6	280			
		1358							

OBSERVER'S MARINE REPORT

#(line 6 p.3)

VESSEL _____ DATE _____

Client	486S.	Type instrument	OFSV	Offset distance	202 m
Area	Gulf of Maine	Record filter	out-64	Group interval	50 m
State		Sample rate	4ms	Fold coverage	24 (23 w/ one chan. out)
Observer		gun depth	10m.	In.³ of guns	2x540

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
			2208				47	6	streamer ≠ 16° port.
		1425	2212						ITB
		1439	2215						ITB
		1442	2216						ITB & PE
		1472							ITB.
		1507	2228						PE
		1517	2230		9.2/9.6/20/8.0				
		1519	2230			230			ITB.
	1521=	1521							ITB.
		1529							ITB.
			2234.						streamer ≠ 20° port.
		1576	2240						PE -
		1578	2240						PE
		1590	2243						ITB.
		1602	2245						ITB
		1605	2246						ITB.
		1609	2246						ITB
		1631	2251						PE
		1650	2254						ITB
		1651							ITB.
		1652							ITB.
		1653							ITB.
		1678	2300		10.6/9.6/8.4/7.4	215m.			ITB.
		1679							
		1681							ITB.
		1682	2301				47	6	END TAPE 47
		1683					48	6	START 48
		1710	2306						ITB
		1712							ITB.
	1740=	1740							
		1762	2317						ITB.
		1763							ITB
		1764							ITB.
		1765							ITB.
		1766							ITB.
		1769							ITB.
		1820	2329						streamer ≠ 17° port. ITB
		1829							ITB
		1830							ITB.

OBSERVER'S MARINE REPORT

Line 6 # p4

VESSEL GYRE85-G-11 DATE Oct 14, 1985

Client	USGS	Type instrument	DFS V	Offset distance	202m.
Area	Gulf of Maine	Record filter	out - 64	Group interval	50m
State		Sample rate	4ms	Fold coverage	23 (24 chan w/ 1 out)
Observer		gun depth	10m.	In.³ of guns	2X540

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		1831	2330		10.4/10.0/9.2/8.6		48	6	ITB
		1849	2335						port gun didn't fire
		1861	2337						
		1872	2339						PE
		1891							ITB
		1892							ITB
		1893							ITB.
Oct	15	1986	0000		11.2/10.2/9.8/8.8	225m		6	
		1987							ITB
		1988							ITB.
		1989							
		2022							Port gun out
		2050	0011						FA 20° port
		2070							Port gun failed
	2074	2074							ITB SP = FFID
									Guns at 1300 psi compressor
									being worked on - should be
									back on line shortly
		2089							Guns back at 1800 psi
		2098					49		New reel
		2108							Port gun misfire
		2109							"
		2125							Port gun misfire
		2127							Port gun misfire
		2146							Port gun misfire
		2154							Port gun misfire
		2155							" " "
		2160	0030		11.2/11.8/12.2/10.4	240		6	FA 15° port
		2164							ITB
		2180							Port gun misfire
		2209							Port gun misfire
		2220	0040						Port gun misfire
		2226							Port gun misfire
		2240							Port gun misfire
		2251							ITB
		2279							Both guns misfire
		2313	0055						Port gun misfire
		2343	0100		11.2/11.6/11.2/10.8	240		6	FA 14° port

OBSERVER'S MARINE REPORT

GYRE 85 - G - 11

VESSEL GYRE DATE 15 Oct 85 # line 6 p 5

Client	USGS	Type instrument	DFS V	Offset distance	202 m.
Area	Gulf of Maine	Record filter	001 - 64	Group interval	50 m
State		Sample rate	4 ms	Fold coverage	24
Observer		gun depth	10 m	In.³ of guns	2 x 540 in³

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		2370	0104					6	Port gun misfire
		2372							ITB
		2374							ITB adjust FTB gain
	2381	2381	0106						FFID = SP
		2400							PE
		2426	0113						Port gun misfire
		2438							port gun misfire
		2440							ITB
		2441-2445							ITB readjusted
		2457							slow speed 1 kt ch 9 zeroed
									fas open - big noise
									looks like it went out
									between 2254 & 2347
		2505	0125				49		Port gun misfire
		2526					50		Port gun misfire
		2527	0130			225m		6	
		2530							ITB - Both guns misfire
		2532				225m			ITB gain adjusted
		2545							PE
		2562	0135						Port gun misfire
		2564	0135						Port gun misfire
		2576	0137						Port gun misfire
		2509	0139						Port gun misfire
		2610	0143						Port gun misfire
		2617	0144						Port gun misfire
		2623-2624							ITB - adjusted
		2626-2627							Port gun misfire
		2636	0147		11.8/12.4/13.2/108			6	Port gun misfire
		2641							Port gun misfire
		2647							Port gun misfire
		2652							Port gun misfire
		2659							Port gun misfire
		2670-2674							ITB gain readjusted
		2679							Port gun misfire
		2682							Port gun misfire
		2699							Port gun misfire
		2701							"
		2716	0200		NA/10.6/11.6/100	230m		6	FA 13° port
		2718-2722							ITB gain adjusted
		2725							Port gun misfire

OBSERVER'S MARINE REPORT

GYRE-85-G-11

VESSEL GYRE DATE 15001185 # line 6 page 6

Client	USGS	Type instrument	DFS V	Offset distance	202
Area	Gulf of Maine	Record filter	OUT - 64	Group interval	50m
State		Sample rate	4	Fold coverage	24
Observer		gun depth	10m	in.³ of guns	2×540 in³

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		2731	0202				50	6	ITB - gain adj
		2734							ITB -
		2745	0204						Port gun misfire
		2759							"
		2778							" "
		2785							"
		2788							"
		2790							"
		2793							ITB
		2808-10	0215						ITB gain adj
		2812							ITB
		2828	0218						Port gun misfire
		2830							"
		2850	0222						ITB
		2852							ITB
		2856							Port gun misfire
		2861							"
		2864							P.E.
		2880							Port gun misfires
		2896	0230		11.6/11.8/12.0/10.4	210		6	ITB FA 15° port
		2897-2901							ITB - gain adj
		2904							Port gun misfire
		2911							ITB
		2931					50/51		EOT #50
		2944							Port gun misfire
		2972							ITB - gain adj
		2987-2988							ITB gain adj
		2998							Port gun misfire
		3011							Port gun misfire
		3019							Port gun misfire
		3031-3032	0271						ITB
		3034							ITB
		3067							No guns
		3068	0300		11.6/11.6/11.4/10.8	205	51	6	ITB FA 12° port
		3069-3072							ITB
		3077							~~ITB~~ Port gun misfire
		3199							Port gun misfire
		3236	0330		11.6/11.0/12.0/10.8	210		6	FA 13° port
		3237							No guns & ITB

OBSERVER'S MARINE REPORT

Line 6 # p7

VESSEL GYRE DATE 15 Oct 85

Client	USGS	Type instrument	DFS V	Offset distance	202 m
Area	Gulf of Maine	Record filter	OUT-64	Group interval	50 m
State		Sample rate	4 ms	Fold coverage	24
Observer		gun depth	10 m	In.³ of guns	2×540

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
	3250	3250	0333				51	6	SP = FFID
		3269							ITB
		3322							ITB
		3327	0347						Port gun misfired
		3351					51		
		3352					52		
		3394	0400		11.2/11.2/11.6/10.0	198		6	FA 15° port
		3473	0416						Parity error
		3508							ITB
		3509							ITB
		3542							ITB
		3543							ITB
		3544							ITB
		3568							ITB
		3569							ITB
		3570							ITB 4a 20° port
		3610		445					
		3618							ITB
		3630							ITB
		3631							ITB
		3680	0500		11.0/12.0/12.0/10.0				
		3683							ITB
		3689							
		3690							ITB
		3751							ITB
		3757							ITB
		3758							ITB
		3765	0519						low error EOT 52
		3766							BOT 52
		3809							ITB
		3810							ITB
		3817	0530		11.6/12.8/12.8/10.6				
		3821							ITB
		3930	0555						ITB
		3954	0600		10.8/11.2/11.8/9.2				
		3987							Parity error
		3988							Parity error
		4007							" "

OBSERVER'S MARINE REPORT

Line 6 #P8

VESSEL Gyre DATE 85 Oct 15

Client	USGS	Type instrument	DFS V	Offset distance	202 m
Area	Gulf of Maine	Record filter	out-64	Group interval	50m
State		Sample rate	4 mir	Fold coverage	24
Observer		gun depth	10 m	In.³ of guns	2x540

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		4020							ITB
		4021							"
		4022							"
		4023							"
		4050							ITB
		4061							ITB
		4086	0630						
		4112							parity error
		4114							ITB
		4155							ITB
		4156							"
		4157							"
		4171							ITB
		4178							
		4184	0652						low EOT #53
		4220							BOT #54
		4221	~0700		12.4/11.6/12.4/9.2				ITB
		4222							"
		4223							"
		4232							"
		4290							ITB
		4350							ITB
		4352							ITB
		4360	730		10.4/11.2/11.6/10.0				"
		4365							ITB
		4367							ITB
		4368							"
		4382							parity error
		4393							ITB
		4411							ITB
		4413							ITB
		4414							ITB
		4437							ITB
		4438							ITB
		4439							"
		4440							"
		4516	0800		11.6/12.4/12.4/9.4				
		4517							ITB
		4541							ITB

OBSERVER'S MARINE REPORT

Line 6 #p99

VESSEL Gyre 85-G-11 DATE Oct 15, 1985

Client	USGS	Type Instrument	DFS V	Offset distance	202 m
Area	Gulf of Maine	Record filter	Int - 64	Group Interval	50m.
State		Sample rate	4 ms.	Fold coverage	24
Observer		gun depth	10m	In.³ of guns	2x540

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		4532	0803						ITB.
		4533							ITB
		4534							ITB
			0809						Little dogleg around lobster pots
									weather very calm -
	458/=	4587	0812						
		4593	0814						ITB
		4596	0815.						ITB.
		4597							
		4599	0817				54	6	END TAPE 54
		4600					55		START TAPE 55
		4679							ITB channel 7 & 9 no good
		4680							ITB
		4681	0830		11.8/12.4/12.6/10.4	270m			ITB. streamer & 20° port
		4711	0836						ITB
		4712							ITB
		4714							ITB.
		4755							ITB.
		4756							ITB
		4757							ITB
		4758							ITB
		4831**							
		4836	0900		12.2/13.0/13.0/10.4	267m			PE
		4839-40							ITB streamer & 20° port -
		4915-19	0915						ITB
		4955							ITB.
		4998-02	0930		11.0/11.8/12.0/9.4	243m			ITB
		5011							ITB.
		5013-14							ITB
		5018	0934				55	6	END 55
		5019					56	6	START 56
		5039							PE.
		5067							PE.
		5068	0942						PE
		5084-85	0945						ITB
		5087-88							ITB.
		5131	0953.						ITB.
		5134							ITB.
			0959						firing at 1500 psi
		5169	1000		11.6/12.2/12.0/9.6	248m			PE
		5170							PE
		5171							ITB

OBSERVER'S MARINE REPORT

line 6
pg 10

VESSEL GY DATE

Client	USGS	Type instrument	DFS V	Offset distance	202m
Area	gulf of Maine	Record filter	out-64	Group interval	50m
State		Sample rate	4 ms.	Fold coverage	24
Observer		gun depth	10m.	In.³ of guns	2x540

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		5174	1001				56	6	ch 7 & 9 no good. ITB.
		5282	1019						PE –
	5325 =	5325	1026						
		5346	1030		12.0/11.8/11.0/8.8	265m			
		5350							ITB.
		5361							PE –
		5369							PE –
		5400							PE.
		5453	1045				56	6	ITB. ? Last file 56
		5434					57		? First file 57
		5500							PE – streamer ∡ 15°
		5578-22	1100		10.6/11.2/11.6/8.8	243m.		All previous streamer ∡ reading may be off	ITB.
		5595	1112						PE
		5672	1125						ITB
		5674							ITB.
		5682	1127						PE
		5684							PE.
		5698	1130		10.6/11.6/11.8/8.8	243m.			PE
		5701-05							ITB
		5731-35							ITB.
			1140					★★★	TAIL BOUY Looks dead astern
		~~5787~~							∡ direction finder says 18°
		5787	1145						PE
		5789-93							ITB – swapped shot break hydro from port to star board
		5852	1155				57	6	End tape 57
		5853					58		start tape 58
		5881-84	1200		10.0/10.6/11.2/8.4	230m			ITB –
	✓	5974, 75, 76, 77, 78, 79, 80							ITB's
			1215						
		6066	1230		10.4/10.8/11.0/10.2	210m			
	6127 =	6127							check of nav
		6156	1245						
		6242	1300		11.0/10.8/10.8/10.6				
		6267	1304						EOT 58
		6268					59		
		6274							ITB
		6429	1330		10.8/11.0/11.2/11.0				6441 long record
		6512							ITB
		6530							PE

OBSERVER'S MARINE REPORT

VESSEL Gyre 85-G-11 DATE 15 Oct 85 # pg 11

Client	USGS	Type instrument	DFS-5	Offset distance	202
Area	Gulf of Maine	Record filter	out -64	Group interval	50 m
State		Sample rate	4 ms	Fold coverage	24
Observer		gun depth	10 m	In.³ of guns	2x540

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		6573							ITB
		6574							PE
		6576							ITB
		6610	1400		10.8/10.2/10.0/9.6	170m			
		6612,13,14,15,							ITB's 8° port
		6636							ITB
		6686	1413						EOT 59
		6687					60		BOT 60 NOTE – file 6687 BOT – has crinkle on tape during rewind & unload file may be no good
		6694-6696							ITB
		6705							ITB
		6706							ITB
		6757							ITB
		6793	1430		11.0/10.8/11.0/10.8	170m			
	6822 =	6822							
		6881,83,84	1445						ITB
		6885							ITB
		6967							PE
		6972	1500		11.2/10.8/10.6/10.4	172m			
		6976							ITB
		7056,57	1514						ITB
		7064,65,66	1516						ITB
		7101	1522						EOT 60
		7116					61		BOT 61
		7140	1530		10.4/10.4/10.0/10.0	180m			ITB
		7172							PE
		7227,8,9	1545						ITB
		7230,31							ITB
		7272							PE
		7331	1600		10.6/10.4/10.0/10.8	190m			ITB
		7314,15,16							ITB
									ITB 7354 ITB
		7398	1615						ITB
		7400	1615						ITB
		7412							ITB
		7477	1630						7461 Parity Error
									7478 ~~Parity Error~~ ITB
									7479-7480 7482 ITB
		7522	1638						EOT 61 Low error
		7523					62		BOT 62

Line 6

OBSERVER'S MARINE REPORT

p12

VESSEL 9yrc 85-5-11 DATE 85 Oct 15

Client	USGS	Type instrument	DFS-5	Offset distance	2oz
Area	Gulfot maine	Record filter	out-64	Group interval	50m
State		Sample rate	4 ms	Fold coverage	24
Observer		gun depth	10m	In.³ of guns	2x540

Pre-plot	Shotpoint	File No.	Time	#1dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		7532					62	6	ITB
		7533							ITB
		7592							ITB 7592-7593-7594-7595
		7637	1700						
		7665							Parity E 7717 7715 ITB
		7789	1730		10.4/10.4/10.0/9.8				7719-ITB 7773 ITB
		~~7815~~							7774, 7775, 7776 ITB
		7815							Parity Error
		7832							ITB 7835
		7892	1751						ITB
		7895	1752						ITB
		7932							Parity error
		7936	1800z						1737 ITB
		7939	1800z		9.2/9.8/9.8/10.0		63	6	EOT 62 BOT 63
		7952	1803						ITB
		7953							ITB
		7954							ITB
		7955							ITB
		7959	1805						ITB
		8066	1827		9.4/9.4/9.2/9.4				Parity error
		8088	1830						
		8092	1832						ITB ~~[illegible]~~
		8134	1839						ITB
		8173	1846						ITB Changing direction
		8174	"						ITB TO west
		8192	1850						ITB
		8193	"						ITB
		8195	1851						ITB
		8243	1900		10.8/10.4/10.4/10.0				~~ITB~~
		8254	1902						ITB
		8314	1915						ITB
		8354	1925						ITB
		8357	1926						ITB
		8358	1926						EOT 63 BOT 64
		8359	1926						ITB Port gun failed
		8364	1927						ITB Port gun failed
		8378	1930		10.2/10.4/9.6/7.2				
		8379	1930						ITB
		8381	1931						ITB
		8382	1931						ITB

OBSERVER'S MARINE REPORT

VESSEL GYRE 85-6-11 DATE 15 Oct. 85 # line 6 p13

Client	USGS	Type instrument	DFS V	Offset distance	202
Area	Gulf of Maine	Record filter	out 64	Group interval	50m
State		Sample rate	4ms	Fold coverage	24
Observer		gun depth	10m	In.³ of guns	2X540

Pre-plot	Shotpoint	File No.	Time	#i dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		8407	1938				64	6	
		8418	1940						ITB- No Port Gun
		8422	1941						Parity Error
		8424	1941						ITB - Port gun failed
		8428	1942						ITB - Port gun failed
		8430	1943						ITB - Port gun
		8438	1945						ITB - "
		8440	1945						ITB - "
		8442	1947						ITB - "
		8443	1947						ITB - "
		8471	1954						ITB
		8490	1958		6.6/10.4/11.2/7.8				EOL 6 EOT 64
									BOT 65
					EOL 6				
					B.O.L 7				
	0	1	2003						SOL 7
		3	2003		see next page				ITB
		4	"						ITB
		5	"						ITB
	9	10	2005						
		15	2005						ITB
		19	"						ITB
		21	2006						ITB
		31	2008						ITB
		39	2010						ITB
		41	"						ITB
		42	"						ITB Turning Gain up
			2015		10.8/10.0/8.6/8.4				
		66							ITB
		68-71							ITB
		124							ITB
		151	2030			83m			
		157							ITB
		230							PE
		238	2045			70m			
		243							ITB

OBSERVER'S MARINE REPORT

Line 7 #1.1

VESSEL GYRE-85-6-11 DATE 85 OCT 15 JD 288

Client	USGS	Type instrument	DSF-V Pass 0-64 Hz	Offset distance	202
Area	Gulf of Maine	Record filter	out 64	Group interval	50 m
State		Sample rate	4 ms	Fold coverage	24
Observer		gun depth	10 m	In.³ of guns	540 x 2

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
	0	1	2003					7	SOL 7
		3	2003						ITB - 3
		4	"						ITB - 4
		5	"						ITB - 5
	9	10	2005						S.P / fiberumber check w/ Nav.
		15	2005						ITB - 15
		19	2005						ITB - 19
		21	2006						ITB - 21
		31	2008						ITB - 31
		39	2010						ITB - 39
		41	"						ITB - 41
		42	"						ITB - 42 Gain up ↑ 43 OK
			2015		10.8/10.0/8.6/8.4	≈84 m			
		66							ITB - 66
		68-71							ITB - 68-71
		124							ITB - 124
		151	2030			83 m			
		157							ITB - 157
		230							P.E. 230
		238	2045			70 m			
		243							ITB - 243
			2050		9.6/10.4/11.2/9.0				
		301							P.E - 301
		306							ITB - 306
		323	2100			75 m			ITB - 323
		326							ITB - 326
		357							PE - 357
		363-366							ITB - 363-366
		400	2115			90 m			
		404							ITB - 404
		419	2120				65		End of Tape 65 file 419
		420					66		Begin Tape 66. file 420
		482	2130		10.6/9.2/8.4/8.4	85 m			ITB - 482
		544							ITB - 544

OBSERVER'S MARINE REPORT

VESSEL GYRE-85-6-11 DATE 85-OCT 15 # Line 7 p2

Client	USGS	Type instrument	DFS V	Offset distance	202
Area	Gulf of Maine	Record filter	out 64 Hz	Group interval	50m
State		Sample rate	4ms	Fold coverage	24
Observer		gun depth	10 m	In.³ of guns	2 X 540

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		561	2145		10.0/10.4/10.6/9.2	85m			
		603-6	2153						ITB
		638	2200						ITB's
		641-642	2201			95m			ITB's
		717	2215		11.6/11.0/10.6/9.0				
		720	2215			90m			ITB
		726	2216		225 change course to 216 to 150°				ITB
	784 #	785	2228						checked with NAV
		797	2230			97m			
		801-802	2231						ITB
		835	2237						end of Tape 66
		836	2237						start of tape 67
			2239						2 shots missed on port gun
									Starboard gun varying on shot interval
		861							no shot
		864							no shot
		866							no shot port gun
		880	2245		10.8/10.0/9.2/9.2	104m			
		883							ITB
		938-941	2256						ITB's 3.5 annotated
		951-	2258						ITB-951 3.5 annotated
		954	2259						ITB-954
		959	2300						3.5 annotated
		963	2301						ITB-963
		965	2301						ITB-965
		966	2301						ITB-966
		967	2301						ITB-967
		1024	2312		(2318)				ITB.
		1039	2315		10.0/9.6/10.0/9.6	117m			PE
		1067							ITB—
		1070	2321						ITB. ← start of annotator — seems to have been responsible for ITB's
		1121	2330		9.8/9.8/9.8/9.2	135m			
		1195	2345			110m			PE
		1257	2355				67		change tape end 67
		1258					68		start 68
		1269	2357						ITB—
OCT 15		1271							ITB
		1272							ITB.
*OCT 16		1283	0000		10.4/9.8/9.8/9.4	143m			

OBSERVER'S MARINE REPORT

Line 7
p3

VESSEL R/V GYRE DATE 16 Oct 1985

Client	USGS	Type instrument	DFS V	Offset distance	202
Area	Gulf of Maine	Record filter	OUT - 64 HZ	Group interval	50m
State		Sample rate	4 ms	Fold coverage	24
Observer		gun depth	10m	In.³ of guns	2 × 540 in³

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		1431					68	7	Parity error
		1432	0030		7.4/9.4/9.2/8.8				FA 8° port
		1466							ITB
		1467							ITB
		1469							ITB
	1492	1493							SP = FFID - 1
		1564	0054						slow down ½ kt.
		1567							ITB
		1568							ITB
		1595	0100		10.8/10.8/10.8/10.4			7	
		1608							PE
		1656	0113						Port gun delay changed from 8 to 10 ms. - Starboard gun is drifting 4-6 ms. WATCH!
		1664	0115						ITB
		1665							ITB
		1666							ITB
	1674	1675	0117				68		EOT 68
		1676					69		BOT 69
		1733	0130		11.4/12.0/11.4/11.4				FA 2° port
									Weather awful 25-30 kts SE
									far traces very noisy
					NB - should be ITB ≈ 1764				Adjust tension on arms of Drive #1
									to avoid crinkling tape on unload
		1830	0152						Port gun delay 12 ms.
		1864							ITB
		1868	0200		9.2/9.8/9.8/10.8				FA 5° port
		1893							PE
		1962	0219						ITB EPC box has 2 squares
		1968	0220	≈			69/70		lost power - EOT 69
		1969							BOT 70
		1974							Stop firing
			0230		10.8/10.8/10.4/11.2				
		1986							Compressor problem gone
									to Tape Bypass
	[illegible]	1988	0234						start shooting 50 shots lost
	2038	1989							SP = FFID + 49
	2039	1990							
		2010							ITB } reinitializing EPC master box
		2011							ITB
		2012							ITB
		2013							ITB

35 KHZ OUT

Line 7

OBSERVER'S MARINE REPORT

p4

VESSEL GYRE DATE Oct 16 1985

Client	USGS	Type instrument	DFS V	Offset distance	202 m
Area		Record filter	OUT - 64 HZ	Group interval	50m
State		Sample rate	4ms	Fold coverage	24
Observer		gun depth	10m	In.^{3} of guns	2×540in^3

Pre-plot	Shotpoint	File No.	Time	#1dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		2014					70	7	ITB
		2015							ITB
		2016-2023	0241						Recalibrating EPC marker box -
									getting redone.
		2051							Port gun didn't fire
		2060-2062							"
		2085							"
		2087							"
		2089							"
		2091							"
		2104							Port gun delay set to 11ms
		2106							PE Winds let go a bit.
		2120	0300		11.2/11.2/10.8/10.4	170	70	7	
		2127							ITB
		2128							ITB
		2130							"
		2131							"
		2132							"
		2133							"
		2135-2141							ITB
		2155							Miss port gun
		2157							"
		2167							"
		2175							"
		2182							"
		2230-2231							ITB port gun didn't fire
		2244							PE
		2250-2252	0326						Port gun didn't fire
		2268							"
		2272							"
		2274	0330		9.6/10.0/10.0/10.4	200m			5° FA port
		2275							Port gun didn't fire
		2282							"
		2285							"
		2292-2293							"
		2295-2300							"
	2354	2305							SP = FFID + 49
		2312-2313	0337						Port gun no fire
		2316-2320							"

OBSERVER'S MARINE REPORT

VESSEL GYRE DATE 85 OCT 16 # ~~05~~ line 7

Client	USGS	Type instrument	DFS V	Offset distance	202
Area	Gulf of Maine	Record filter	OUT - 64 HZ	Group interval	50
State		Sample rate	4 ms	Fold coverage	
Observer		gun depth	10 m	in.³ of guns	540 in³ x 2

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		2324	0340				70	7	Port gun didn't fire
		2327							ITB
		2330-2331							ITB
		2335							Port gun didn't fire
		2338							"
		2343-2344							"
		2346-2348							"
		2350-2351							"
		2358-2359							"
		2367							"
		2376							"
		2379							" EOT 70 (file 2385)
		2390-2392					71	7	"
		2396							"
		2405-2408							"
		2419-2427							"
		2427-2429							ITB
		2434							Adj port gun delay 10 ms
		2435							Port gun no fire
		2436							"
		2438	0400		9.6/10.2/9.6/9.4				Port gun miss fires
		2526	0415						ITB } No port gun
		2527	"						ITB } No port gun
		2529	"						ITB } No port gun
		2609	0430						
		2626							ITB
		2628							ITB
		2750							Parity error
		2791	0500						
		2809	0503				72	7	EOT 71 BOT 72 (End of line)
		2821							ITB
		2822-2823							ITB
		2824	0504						NO DATA on oscilliscope or
			0530		12.8/13.2/12.8/12.0				Near trace starting 0504Z file 2824
		~~3016~~	0545		10.6/11.6/12.8/12.2				LINE #7 end at 0503Z
			0600		10.8/12.0/12.0/11.2				with completion of tape #71

SP 2840 at 0459:55

Last data at 2809 Reel 71

DFS-V - burned out several internal electronics boards and needs complete overhaul. Last data thru system at 0505Z.

85 OCT 17

OBSERVER'S MARINE REPORT

GYRE-85-G-11

VESSEL GYRE DATE 22 Oct 85

line 8 # p1

Client	USGS	Type instrument	DFS V	Offset distance	200m
Area	Gulf of Maine	Record filter	OUT - 64 HZ	Group interval	50m
State	Penobscot Bay	Sample rate	4ms	Fold coverage	24
Observer		gun depth	10m	In.^{3} of guns	2 × 540

Pre-plot	Shotpoint	File No.	Time	#1dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
	2	4		180	12.8/15.6/18.8/18.4	42m	72	8	file 1-20 = ITB.
	3	5	0140						
		26	0145						ch 15 out - noisy
		51	0150						Guns @ 1750 psi
									port gun delay 4 ms
	98	100	0200		12.6/17.0/19.0/17.8	41m			
	173	175	0215		10.8/14.6/18.0/19.0				
	198	200	0219		10.4/14.0/15.8/16.2				
	240	242	0230		11.0/13.4/15.8/15.2	53m			turn off on shot clock
		298							P.E.
	312	314	0245		11.0/13.8/16.8/16.0	55			
		326	0248						Port gun late ~5 ms.
		329							"
		330							Right on
		331							Port late
		347					72		" ~5ms.
		369					73		Parity Error
		371							
		388	03:00		12.0/15.2/17.6/16.0	57			
		439							Port late ~3 ms.
		451							Port late ~4 ms.
		459	0315		12.8/17.0/19.4/18.0	53			
		469							PORT LATE ~3MS
		475							" " 3MS
		484							PORT LATE - 2MS
		494							" " - 2MS
		517							PORT LATE - 3MS
		519							" " - 3MS
		521							" "
		529							" "
		531	0330		15.2/19.0/23.2/21.2	54			~~PORT LATE~~
		538							PORT LATE
		540							" "
		543							" "
		547							" "
		551							" "
		553							" "
		554							" "

OBSERVER'S MARINE REPORT

VESSEL GYRE-85-G-11 DATE 22 Oct 85 # line 8 R2

Client	USGS	Type instrument	DFSV	Offset distance	200M.
Area	GULF OF MAINE	Record filter	OUT -64Hz	Group interval	50M
State	PENOBSCOT BAY	Sample rate	4MS	Fold coverage	24
Observer		gun depth	10M	In.³ of guns	2x540

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		556					73	8	PORT LATE ~5MS
		557							" " "
		567							" " ≈3MS
		570							CHANGE PORT GUN DELAY TO 3MS
		577							PORT EARLY
		581							" "
		588							" LATE
		596	0345		12.6/17.6/22.6/21.2	57			FA 0° dead astern
		613							PORT LATE
		641							Port ~2 MS late
		649							Port ~4 MS late
	652	654							SP/FILE CHECK
		657							PORT LATE
		1066	0400		12.4/15.6/18.4/18.0	65			
		681							Parity
		712					73		End of Tape 73 / Start tape 74
		737	0415		-		74		
		772	0422						PE LAST several files.
		794	0426						
		812	0430		11.2/13.4/16.6/16.0				
		823							P2 2 MS
		832							PE 2 MS
		881							PE 2ms for 4 files prior
		901							P 2ms early
		904							change delay to 5ms
		927							Parity
		929							Parity
		944							Parity
		966							DELAY changed to 4 MS
		981	0500		10.0/12.0/14.0/13.8				
		1020	0512				74	8	END of Penobscot Bay line End Tape #74

OBSERVER'S MARINE REPORT

VESSEL GYRE85-G-11 DATE Oct 31 # line 9 pg 1.

Client	USGS	Type instrument	DFS V.	Offset distance	156m.
Area	Gulf of Maine.	Record filter	out - 64.	Group interval	50
State		Sample rate	4ms.	Fold coverage	24.
Observer		gun depth		In.³ of guns	2x540.

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
									FILES 1-120 = PRE LINE SHOOTING
	1	121	0043	331	6.4/9.4/10.0/11.6		76	9	TAPE DRIVE "A"
		163							PE.
		224	0100		6.8/9.8/10.4/12.2	110			chan 15 out
		325	0115		6.6/9.6/9.8/11.2	113	"	"	
		400	0130		6.6/9.6/9.2/11.6	124			
		418	0132		7.2/10.0/10.0/12.0		76	9	LAST FILE
		419	0132				77	9	FIRST FILE TAPE PR "B"
		469							switch STBD gun to other
			0145			148			box - off to change
		522							BOTH GUNS FIRING AGAIN
		588							PORT DELAY TO 2MS - GUNS.
		595	0200		10.6/11.2/10.6/12.0	159	77	9	
		652	0211						CHAN 15 SEEMS TO BE OK.
		661	0213						PERROR
		671	0215		11.6/11.2/11.0/11.6	161			
		701			"				PORT GUN DELAY 1MS
		727							" " " - 2MS
		746	0230		12.4/12.2/12.0/12.0	162			
		749							PARITY ERROR
		799							stbd gun has been varying ~2-3ms
		818	0245		13.4/12.4/11.0/11.2	159	77		goes from good to late
	~~750~~	~~870~~	0252						feather angle 10° to port
	750	870	0256				78		check shot/record
		887	0300		12.0/12.0/12.0/12.0	174			
		908	0304						Got constants set on DFS V
		961	0315		10.4/10.8/11.0/12.4	171			
		1010	0324						Parity Error
		1039	0330		10.0/10.8/11.0/11.8	177			FA 5° STBD
		1116	0345		10.0/10.6/11.0/11.6	184			
		1160	0354						PE
		1189	0400		9.6/10.4/10.0/12.0	190			FA 5° STBD
		1252	0413				78		PE BOT 78
		1253	0414				79		PE BOT 79
		1261	0415		10.0/10.8/11.0/12.0	189			
	1163	1283	0418						check/shot-record
			0423						change delay on port gun to 4ms
									channel 15 seems to be noisy

OBSERVER'S MARINE REPORT

LINE 9
PAGE 2

VESSEL GYRE-85-G-11 DATE Oct 31

Client	USGS	Type instrument	DFS V	Offset distance	156m
Area	Gulf of Maine	Record filter	out-64	Group interval	50
State		Sample rate	4ms	Fold coverage	24
Observer		gun depth	10m	In.³ of guns	2x540.

Pre-plot	Shotpoint	File No.	Time	#1dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		1329	0428	334			79		change to 5ms delay port gun
		1336	0430		8.6/10.2/10.2/12.2	178			
		1338	0430						change to 4ms delay port gun
		1364	0436						change to 3ms delay port gun
		1378	0438						" " 2ms delay " "
		1409	0445		8.6/10.2/10.0/12.2	163			~~tail Boring~~ 0° feather angle
		1428	0449						PE
		1430	0449						change to 4ms delay port gun
		1465	0457						" " 2ms " " "
		1481	0500		8.4/10.2/10.2/12.8	149			channel 15 still out
		1496	0503						5° feather angle
		1552	0515		8.0/10.2/10.0/12.2				
		1570	0518						PE
		1573	0519						PE
		1592	0522						P delay 3 MS
		1627	0530		7.6/9.8/9.6/12.0	135	79		End Reel 79 Start 80
		1676	0537		"		80		
		1731	0545		7.2/9.6/9.2/11.6	140			Speed up to avoid vessel
		1832	0600		7.2/9.6/8.8/11.8	137			
		1844	0602						PE
		1932	0615		5.8/9.6/9.2/11.6	146			
		1949	0617						PE
		2021	0628						PE
		2023	0628						PE
		2032	0630		6.4/9.6/9.2/11.6	156			
			0636						reduce speed to 4.5 knots
		2092	0640				80/81		End Reel 80 start 81
		2105	0642						10° Starboard
		2193	0700		7.8/10.6/10.4/12.6	169			Delays variable on starboard gun
		2260	0715			170			Port gun stable
		2465	0800		7.4/10.0/11.0/13.0				7:40 sea otter down
		2515	0811				81/82		EOT 81 BOT 82
		2598	0830						
change from 120 to 119 ???		2733	0900		6.6/10.0/10.4/12.0				
		2750							BAD SHOT ?
		2756	0905						PE
	~~2047~~	~~2767~~	~~0908~~						?
		2786							P delay 2 ms

OBSERVER'S MARINE REPORT

Line 9
Page 3

VESSEL GYRE-85-G-11 DATE 10/31/85

Client	USGS	Type instrument	DRS V	Offset distance	156m
Area	Gulf of Maine	Record filter	0-64	Group interval	50
State		Sample rate	4 ms	Fold coverage	24
Observer		gun depth	10m	In.³ of guns	2 x 540

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		2800	0915	334			82	9	
		2865	0930		5.0/9.8/10.0/12.4	200			
		2931	0945				82	9	EOT 82
		2932	0945			177	83		BOT 83
	2856	2975	0955						file = SP 119
		2997	1000		5.4/9.2/10.8/12.2	177	83	9	5° STB tail bouy
		3120	1030		5.0/7.2/8.6/11.8	183			
		3184	1045		3.2/6.2/8.6/11.8	187			streamer head shallow but
		3250	1100		3.4/8.4/10.2/12.0	123			tail bouy 10° Stb.
		3315	1115		5.2/8.8/10.2/13.0	179			
		3354	1123				83	9	End Reel 83
		3355	1123				84	9	Start Reel 84
	3246	3365	1126						
		3389	1130		3.2/6.0/9.0/12.4	198			
		3514	1250		4.0/5.8/8.2/11.2	223			
		3643	1230		4.0/9.4/10.2/11.6	210			
	3549	3668	1237						
		3710	1245		3.4/8.0/10.0/12.2	213			
		3772	[illegible]				84	9	Stop reel 84
		3773	1300		6.2/9.4/10.0/11.2	221	85	9	Start reel 85
		3806	1305						PARITY ERROR
		3855	1315		2.8/7.0/8.4/11.8	194			ch 15 has noise spikes
		3916	1326						PE
		3918	1327						PE
		3935	1330		4.2/9.6/9.6/12.0	177			Stbd gun still varying 2-3 ms.
			1332						FA 5° STBD
		3999	1344						PE #92
		4003	1345		4.8/7.9/8.4/11.4	119			
		4072	1400		3.2/7.6/10.0/12.0	101			
		4140	1415		5.0/10.8/9.6/10.8	103			
		4193	1427				85	9	EOT 85
		4194					86	9	BOT 86
		4208	1430		2.8/12.8/11.8/12.6	91			FA 0°
	4114	4233							spcheck file = SP +119
		4277	1445		6.0/13.6/11.8/12.6	90			
		4346	1500		4.6/13.8/12.2/12.4	101			Guns still 1700 psi
		4443	1520						LAST FILE ON TAPE 86
		4444							BOT 87
		4515	1535			101			FIRST GOOD RECORD ON TAPE 86

with speed ~ cont.

OBSERVER'S MARINE REPORT

#line 9 p4

VESSEL GYRE DATE 31 OCT 85

Client	USGS	Type instrument	DFS V	Offset distance	156m ~~106m~~
Area	Gulf of Maine	Record filter	0-64	Group interval	50
State		Sample rate	4 ms	Fold coverage	24
Observer		gun depth	10 m	In.³ of guns	2×540

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.M	Reel No.	Line No.	Remarks
	4438	4557	1545	358	6.6/14.2/11.8/12.4	116	87	9	Port gun delay still 2ms
		4622	1600		6.4/13.8/11.4/12.0	118			
		4691	1616		9.0/19.8/15.4/12.6	124			adjust birds during turn
		4754	1630		5.6/13.2/12.0/12.4	115			FA 0°
		4821	1645		5.8/13.2/12.4/12.6	115			ch 15 still noise spikes
		4864	1655						EOT 87
		4865	~~1656~~				88		BOT 88
		4888	1700		6.0/13.4/12.0/12.8	113			2ms delay on Port still
		5019	1730			115			radio transmission noise
		5020	1731						Parity error
			1745			133			
		5110	1749						Parity error
		5168	1800			115			tail buoy ~10° ~~starboard~~
		5250	1815		4.2/8.8/9.6/12.4	115			
		5277	1820				88		End Reel 88
		5278	1820				89		Start Reel 89
		5335	1830		5.4/9.6/9.8/12.0	108			
		5412	1845			110			
		5496	1900		5.4/9.0/9.6/12.2	144			
		5577	1913						PE
		5585	1915			150			
		5670	1930		5.4/9.2/9.4/12.2	125			
		5700	1935				90		EOT 89 BOT 90
		5762	1947						5643 Shotpoint
		5835	2000		6.8/9.6/9.8/12.4	115			CH 15 still noisy
		5919	2015			145			
		5943	2020						PE
		5997	2030			117			starboard gun much more stable 2ms variation
		6080	2045			110			
		6115	2051				91	9	End Reel #90 Start 91
		6161	2100		7.2/10.4/10.5/12.5	79 M			
		6180	2103						Steering right of line to avoid
		~~6200~~	~~2107~~						fishing gear.
		6200	2107						Feather angle ≈ 0° (tail buoy ~ dead astern)
		6231	2113						Parity Error – 6231
	6163	6282	2122						
		6324	2130		6.4/9.6/9.2/12.0				

OBSERVER'S MARINE REPORT

VESSEL GYRE-85-G-11 DATE 85 OCT 31 # Line 9 ~~1.5~~

Client	USGS	Type instrument	DSF V	Offset distance	~~106~~ 156 m
Area	Gulf of Maine	Record filter	8-64	Group interval	50
State		Sample rate	4 ms	Fold coverage	24
Observer		gun depth	10 m	In.³ of guns	540 x 2

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		6410	2145						Stb gun triggering at slightly late time — port gun stable
		6422	2147						PE
		6423	2147						P. Error — 6422, 6423
		6437	2149						Stb. gun coming in late
		6438	2149						Guns OK
		6440	2150						Stb running late again
		6453	2152						(INCREASE port delay to 3 ms
		6454							close — stb late from 2
		6458	2153						Guns Right on.
	6355	6479	2156						Heading back toward line
									We've negotiated fishing gear.
									Currently 1 mile East of line
		6498	2200		6.8/10.4/10.2/12.4		90	9 f.<	tail bouy ~5° Port
		6586	2206				92	9	END TAPE 91
		6587							START TAPE 92
		6585	2215						
		6673	2230		7.5/10.0/9.6/12.2				
		6724	2238						Tail bouy right on
		6741	2242						Parity error
		6742	2242						Parity error
		6763	2245						
		6855	2300		7.2/10.0/10.0/12.0				
		6863	2301						Parity error
		6890	2306						Moving Huntec
	~~6783~~	~~6898~~							ignor
	6783	6902	2308						BACK ON LINE
		6952	2315			92	9		END TAPE 92
		6953	2315			93	9		START TAPE 93
		7055	2331		6.8/9.8/9.8/11.8				
		7075	2334						Tail bouy 5° to port
		7106	2339						Parity error
		7107	2339						Parity error.
		7147	2345						
		7227	2352						Parity error — time approx.
		7246	0000		6.6/9.8/9.6/11.8				tail bouy - 5° port
		7374	0020			93		9	end tape 93
		7375				94		9	Start tape 94.
		7553	0046						PE.

OBSERVER'S MARINE REPORT

VESSEL GYRE-85-G-11 DATE NOV 1 1985 # line 9 pg 6

Client	USGS	Type instrument	DSP IV	Offset distance	~~106m~~ 156m
Area	Gulf of Maine	Record filter	0-64 Hz	Group interval	50
State		Sample rate	4ms.	Fold coverage	24
Observer		gun depth	10m.	In.³ of guns	2×540

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		7645	0100		6.4/9.8/9.8/11.8		94	9	
	~~7532~~	~~7652~~							
	7539	7658							shot point check.
		7714	0110						PORT GUN DELAY 4 MS
		7742	0115		6.6/9.8/9.6/11.6	146m			
		7790	0122				94		EOT
		7791	0122				95		BOT
		7840	0130		7.6/10.2/10.4/12.4	148m			
		7934	0145		6.4/9.6/9.8/11.6	143m			
		8026	0200		7.4/10.0/9.8/11.8				
		8119	0215		7.8/10.0/9.6/11.2	135m			
		8157	0221						Port gun delay 3MS
	8044	8163							SP ✓ SP = file - 119
		8211	0230				95		EOT
									BEGIN TURN AT EOL 9
		8212	0230		6.8/9.8/10.0/11.8		96		BOT 96 LOST SHOT POINT - ON TAPE CHANGE
	8100	8218			-	104m			SP ✓ SP = file - 118 REEL LEFT ON LOCAL
									Keep shooting through turn
		8312	0245		7.8/10.4/10.0/10.8	85m			
		8338	0250						PE
		8406	0300		6.8/9.6/9.6/10.8				STBD gun jumping some
		8504	0315		6.8/9.8/9.6/11.2				
		8570							finish turn onto dog leg between lines 9 & 10
		8602	0330		7.6/10.0/9.8/11.2				
	8495	8613	0331			119m			last shot line #9

EOL 9

OBSERVER'S MARINE REPORT

VESSEL GYRE 85-G-11 DATE Nov 1 # LINE 10 pg 1

Client	USGS	Type instrument	DFS V	Offset distance	~~106~~ 156m
Area	Gulf of Maine	Record filter	out -64	Group interval	50
State		Sample rate	4 ms	Fold coverage	24.
Observer		gun depth	10m	In.³ of guns	2x540

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
	008	0007	0334			100m	97	10	PE START LINE 10
									START TAPE 97
		079	0345		6.6/9.6/9.4/10.4	110m			
		103	0348						start turn out of dogleg into 10
		175	0400		8.4/10.2/9.6/10.8	121m			
		201	0404						PARITY ERROR
		269	0415		7.8/10.4/9.2/11.2	135m			
		362	0430		7.0/10.0/9.6/11.0	148m			END OF TURN ONTO LINE 10
		427	0441				97	10	EOT
		428	0441				98	10	BOT
		455	0445		7.6/10.0/10.0/11.0	157m			
	486	485	0450						SHOTPOINT CHECK
		551	0500		7.4/10.4/10.0/11.2	160m			
		647	0515		6.6/10.0/10.0/11.2	155			
		660	0517						PE
		743	0530		6.8/10./9.6/11.2				see copy on log-files lost on tape transfer 16 files??
		840	0545						
		841	0545						PE Δ Reel 98/99 PE
		847	0548				99		Reel 99 running smoothly
	873	857	0530						873 Shot # Check
		922	0600		6.8/9.6/9.8/11.0	157		10	file = SP-16
		1018	0615		6.6/9.8/9.2/10.6	163			
		1055	0620						10° Turn to Port
		1114	0630			155			
		1207	0645			161			
		1262	0653				100		EOT 99 BOT 100
		1302	0700		7.4/9.8/9.8/10.8	168			CH15 still bad
		1485	0729						change from 3ms to 5ms delay Port
		1487	0730			180			
		1577	0745		7.6/10.4/10.4/11.6	178			
		1666	0800		7.4/10.2/10.4/11.4	178			
		1676	0802						EOT 100 BOT 101
		1751	0815		7.2/10.2/9.6/10.4	168			
		1836	0830		7.2/10.2/10.2/10.8	165			
		1926	0845		6.0/9.6/9.2/9.8	160			
			0853/0858						See Other Tape Δ
		2015	0900		6.4/9.8/9.8/11.2	148			

OBSERVER'S MARINE REPORT

VESSEL GYRE-85-G-11 DATE 11/1/85 # Line 10 pp 2

Client	USGS	Type instrument	DFS V	Offset distance	~~106~~ 158m
Area	Gulf of Maine	Record filter	out - 64	Group interval	50
State	Chaos	Sample rate	4 msec	Fold coverage	24
Observer	Trehu/Unger/Leeds	gun depth	10m	In.³ of guns	2 @ 540

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		2097	0914				101	10	EOT 101
		2098	0914				102	10	BOT 102
		2193	0930		5.4/9.6/9.6/10.4	123			
	2223	2207	0932						passed over OBS site
		2278	0944						Change port gun delay to 4ms
		2287	0945			131			
		2296	0946						tail bouy - 0°
		2310	0948						change port gun delay to 3 msec.
		2322	0950						change port gun delay to 2 msec.
		2350	0955						Parity error
		2382	1000		5.8/9.6/9.8/10.6	137			
	2413	2397	1002						
		2448	1009						Huntec EPC recorder down
		2512	1021				102	10	EOT 102
		2513	1021				103	10	BOT 103
		2568	1030		5.0/9.2/9.6/11.4	145			Huntec EPC back up
			1037						tail bouy 5° port.
		2645	1045			157			
	2704	2688	~~1100~~ 1057						
		2706	1100		6.8/6.8/8.4/10.6	156			tail bouy 5° port -
		2788	1118						
		~~2849~~ 2843	1130		5.6/8.4/8.6/11.0	142			
			1140						change paper on maggie
		2908	1145			157			
			1151						tail bouy angle 0°
		2933	1157				103	10	end tape 103
		2934	1152				104	10	start 104.
		2978	1200		7.2/10.8/12.8/11.2	170			Guns not staying alligned —
	3066	3050	1215			175			jumping around so tough to synch.
		3068	1218						tail bouy ~ 0° — ~~Guns better~~
		3088	1222						Change Port delay from 2 to 3 ms.
		3128	1230		3.8/8.8/8.4/10.0	170			
		3203	1245			174			
		3274	1258						
		3281	1300		5.2/8.2/8.6/10.4	172			tail bouy ~ 5° Port
	3326	3310	1305						sp/file check File=SP-16
		3349	1313				104		Lots of front end noise on streamer EOT
		3350	1313				105		BOT
		3357	1315		4.2/8.0/7.6/9.6	170m			

OBSERVER'S MARINE REPORT

LINE 10

VESSEL GYRE 85-6-11 DATE 11/1/85 pp3

Client	USGS	Type instrument	DFS V	Offset distance	158m.
Area	GULF OF MAINE	Record filter	OUT -64	Group interval	50
State		Sample rate	4 ms	Fold coverage	24
Observer		gun depth		In.³ of guns	2@540cu in

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	(m) W.D.	Reel No.	Line No.	Remarks
		3433	1330		4.8/9.2/8.8/10.0	168	105	10	
		3506	1345		5.4/8.2/8.4/11.0	167			
		3530							Bird 2 quite shallow 4.8m - very noisy in mid streamer - hung up on something?
		3547							Bird 2 coming down - streamer quieted down.
		3567	1357						guns didn't fire
		3580	1400		5.4/5.8/11.2/11.2	172			again - no fire
		3656	1415		3.2/5.4/9.8/9.8	178			Bird 2 has cycled shallow 3 times now - then gone back to 10-11m - may be effect of following seas. Streamer seems ok - though noisy when Bird 2 comes shallow
	3713	3697	1423						SP✓ SP = file + 16
		3716			2.6/3.2/10.6/11.8				Bird 2 cycled up again - streamer very noisy. Guns not well aligned
		3728	1430		3.8/6.2/6.8/10.4	187			Now Bird 3 cycling shallow
		3743	1433						Bird depths good
		3752	1435		4.2/10.6/12.2/9.2				
		3770	1439				105		EOT 105 Tape crinkled near BOT during unload
		3771					106		BOT 106
		3799	1445		4.6/6.2/6.6/10.0	190			Following quartering sea - NE at 15-25 kts. ROLLY
		3870	1500		4.2/6.6/10.8/9.2	203			
		3902							flutter on osc. monitor bad shot?
		3940	1515		4.0/8.6/12.0/11.4	215			flutter on camera monitor 20-30 Hz on tail end only. Bird problem??
		4011	1530		4.4/8.4/11.4/10.8	222			FA 5° PORT Guns pretty good
	4056	4040							SP✓ SP = file +16
		4062	1545		3.2/4.2/11.6/10.8	221			Bird 2 still cycling shallow/deep
		4152	1600		4.4/4.6/8.4/10.4	224			
		4159	1601						c/delay port gun 4 ms
		4187	1607				106		EOT 106
		4188					107		BOT 107
									NB. NOISE STRIP ON OSCILLOGRAPH SHOWS CHAN 12-24 (near 12) are very noisy channel 1-11 are pretty quiet

Line 10

OBSERVER'S MARINE REPORT

p4

VESSEL GYRE-81-G-11 DATE 1 NOV 1985

Client	USGS	Type instrument	DFS V	Offset distance	~~106~~ 156m
Area	GULF OF MAINE	Record filter	OUT -64 HZ	Group interval	50m
State	CHAOS	Sample rate	4 MS	Fold coverage	24
Observer		gun depth	10 m	In.³ of guns	2×540

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		4226	1615		5.6/3.8/8.8/10.6	229	107	10	streamer very noisy
		4267	1624						c/c 10° port to avoid
									fishing vessel
		4294	1630		2.4/1.8/4.2/10.6	230			Near channels sometimes missing
									direct arrival - streamer noisy
		4308	1633		2.4/3.2/3.6/2.6	~~4300~~			streamer very shallow
	4348	4332	1639						SP ✓ SP = file +16
		4361	1645		5.8/14.2/13.2/8.0	174			streamer coming down
		4365							set streamer to 30m -
									fishing boat crossing stern
									not towing any gear
		4383	1649						Bring streamer back up
									fishing boat turned off
		4436	1700		5.0/4.2/9.6/7.4				
		4508	1715		4.0/5.9/8.2/6.4				
			1719						End Reel #2 for Sea Otter
			1722						No trawling
		4							Start Sea Otter Reel #3
		4580	1730		4.4/7.6/9.2/6.8				
		4609	1736						E of Reel 107
		4610	1736				108		B of Reel 108
		4656	1745		3.8/8.0/9.8/6.8				
			1750						0.41 Miles from OBS #C3
		4732	1800		2.2/4.8/3.2/1.2				streamer shallow
		4864	1830		6.0/6.4/8.2/10.8				on turn ⇒ poor record
	4899	4883	1845			225			Tail buoy 4° port
		4990	~~2000~~ 1900		6.0/9.8/9.0/9.6	228			still 4% delay on port gun
		5025	1908			230	109		EOT 108 BOT 109
		5120	1930			215	~~105~~		
		5185	1945			205			
		5250	2000		5.8/9.2/9.8/9.6	222			
		5315	2015		5.2/8.6/11.0/11.0	229			
		5376	2030		6.0/9.2/9.6/10.4	225			
		5439	2045		6.2/9.6/8.4/10.0				
		5445	2046						End 109
		5446	2046						Start reel 110
		5507	2100		4.2/8.2/10.4/10.4	225			

OBSERVER'S MARINE REPORT

LINE 10 # ~~pp~~ 5

VESSEL GYRE-85-G-11 DATE Nov 1, 1985

Client	USGS	Type instrument	DFS-V	Offset distance	156 m ~~106~~
Area	GULF OF MAINE	Record filter	Out - 64 Hz	Group interval	50 m
State	chaos	Sample rate	4 msec	Fold coverage	24
Observer	casual	gun depth	10 m	In.³ of guns	2 @ 540 in³

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		5573	2115			220	110	10	Rockin' & Rolling across the Gulf!
	5614	5598	2121						
		5636	2130		6.0/9.6/10.6/9.6	233			tail bouy angle. 5° port.
		5681	2140						PE.
		5707	2145			220			
		5767	2200		4.6/8.6/10.4/11.0	217			
	5830	5814	2211						
		5835	2215			294			
		5860	2222				110	10	EOT 110 (Passed OBS A-2 @ 2225)
		5862					111	10	BOT 111
		5919	2235		5.2/7.8/8.8/11.0				
		5960	2245			207	~~2~~		
		6028	2300		6.2/10.4/10.8/10.2	227			Tail bouy 5° to port
		6089	2314						P.E.
	6125	6109	2318						
		6151	2330		3.8/9.6/9.6/10.8				
		6169	2333						turning 10° left because of
		~~6205~~							other boats in area
		6205	2344						P.E.
			2340						analog depth stope off (see other)
		6210	2345						" " " back on
11/2/85		6259	0000		5.6/9.6/12.2/10.8				
		6282	0007				111	10	EOT 111
		6283					112	10	BOT 112
		6348	0030		2.8/8.6/11.2/9.6				streamer ∡ 15° port *
	6380	6364	0035						
		6394	0045						
		6440	0100		5.0/9.0/10.0/9.4	215?			
		6485	0115		3.6/8.0/10.2/10.0	205			
		6535	0130		3.2/9.8/10.2/9.8	203			
		6564	0140						C/c to turn onto new line
		6583	0145		4.6/10.0/10.4/10.4				STBD compressor coming loose
		6644	0200		3.6/3.6/2.4/5.8	205			Turning - streamer noisy & shallow
		6697	0212				112		EOT 112
		6698					113		BOT 113
		6710	0215		1.8/2.0/3.0/0.4	212			Still turning
		6775	0230		1.6/2.0/4.4/0.0	208			turn ended ≈ here
	6846	6830	0243						SP ✓ SP = file + 16

water depths = erratic bad 3.5 ppm

note - streamer ∡ readings are probably bogus —

OBSERVER'S MARINE REPORT

Line 10 #p6

VESSEL GYRE-85-G-11 GYRE DATE 02 NOV 1985

Client	USGS	Type instrument	DFS V	Offset distance	156m ~~106m~~
Area	Gulf of Maine	Record filter	OUT - 64 HZ	Group interval	50m
State		Sample rate	4ms	Fold coverage	24
Observer		gun depth	10m	In.³ of guns	2×540in³

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
	6854	6838	0245		2.4/2.8/3.2/0.0	211	113	10	
		6891			~~0.8/2.2/2.8/0.0~~				PE
		6898	0300		0.8/2.2/2.8/0.0	214			
		6942	0311						slow by 1 kt - attempt to get
									streamer down.
		6960	0315		1.8/2.0/2.6/0.8	206			
		7010	0329						slow again to try & get streamer
									down.
		7015	0330		2.2/1.8/2.6/0.0	205			
		7060	0345		2.8/2.2/3.6/0.0	197			
		7118	0400				113		EOT 113
		7119					114		BOT 114
		7120			1.8/2.0/2.0/0.2	185			Have given up w/ streamer -
									will wait for change in dir.²
									- to get out of following seas
		7174	0415		1.6/2.0/2.0/0.0	172			Very little data on Camera Mountain
	7204	7188							SP/ SP = file + 16
		7226	0430		1.2/2.8/2.2/0.0	178			
		7282	0445		1.2/1.8/2.8/0.0	175			streamer dead astern
		7340	0500		1.6/1.2/3.4/0.				
		7400	0515		1.0/0.8/4.6/0				
		7461	0530		1.4/1.6/2.0/0				
	7492	7476	0534						End of line 10
									Shut down DFS V
									EO Reel # 114 use

EOL 10

OBSERVER'S MARINE REPORT

#pg1

VESSEL GYRE 85-G-11 DATE Nov 2, 1985 line 11

Client	USGS	Type instrument	DFS IV	Offset distance	~~106~~ 150m
Area	Gulf of Maine	Record filter	out 64 Hz	Group interval	50
State		Sample rate	4ms.	Fold coverage	24
Observer		gun depth	10m	In.³ of guns	2x540

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
Nov 2	~~5~~	2	1209		6.0/9.0/12.6/8.2		115	11	Sea state still lousy, but managed to
	-3	12							get streamer down. All traces
	1	15							good - ch 15 still has noise blips.
		27	1215						port gun delay 4 ms
		86	1230		2.6/8.8/13.6/10.2				streamer ∡ 0°
	83	97	1232						SP✓ SP = file -14
		101	1234						change port delay from 4ms to 2
		131	1240						PE.
		134	1242						PE
		146	1245		2.0/8.4/15.0/8.0				
		205	1300		4.2/7.6/14.8/7.2				starting course change.
		261	1315		2.4/7.6/3.8/7.6	205			still turning
			1325						Big mess in lab from large
									sold. Getting cleaned up
		320	1330		5.0/7.6/15.2/9.0	207			
		376	1345		4.8/6.0/3.2/7.4	No depth			
		407	1354						finish turn - on course
		415	1357				115		EOT 115
		416					116		BOT 116
		426	1400		4.2/6.2/12.0/5.6	N/R			
		456	1409						Port delay back to 4ms
		476	1415		3.2/7.2/13.2/10.4	N/R			
		525	1430		4.8/10.0/12.4/9.2	N/R			
		573	1445		4.2/11.2/9.0/11.2	N/R			
		621	1500		4.2/8.4/9.6/9.0	N/R			
		668	1515		3.6/9.4/12.8/10.0	N/R			
		713	1530		3.4/7.8/12.4/10.8	N/R			
		764	1545		4.8/9.8/10.8/9.2	N/R			
	7760	790	1550						SP✓ SP = file -14
		818	1600		5.4/8.8/9.2/10.2	N/R			
		836	1606				116		EOT 116 Tape crinkled near BOT
		839					117		BOT 117
		870	1615		4.2/12.4/13.4/10.2	N/R			
		921	1630		4.2/7.2/8.4/9.8	N/R			Seas still building ~~8~~ 10' now
		976	1645		3.2/10.8/11.2/10.0				
		985	1648						Parity error - 985
		1028	1700		3.6/9.2/9.6/9.6				

N/R - Not readable

OBSERVER'S MARINE REPORT

4/1

VESSEL GYRE-85-G-11 DATE 85 NOV 02

Line 11 # p.2

Client	USGS	Type instrument	ASF II	Offset distance	~~106~~ 156m
Area	Gulf of Maine	Record filter	0-64 Hz-Pass	Group interval	50
State		Sample rate	4ms	Fold coverage	24
Observer		gun depth	10m	In.³ of guns	540in³ x2

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
					2.9/10.3/10.8/10.2		117	11	6 sec Records
NOV 2	1084 →		1715					11	
	1138 →		1730		4.0/13./12.4/9.2			11	
	1190 →		1745					11	
	1242 →		1800	010°	4.6/12.8/14.8/10.4				
	1236	1250	1802						Shot/file check
		1254	1803				117		End of 117 Reel
		1255	1803				118		Begin 118 Reel
		1296	1815		3.2/9.0/8.4/7.6				
		1350	1830		3.4/6.8/10.4/10.2				
		1401	1845						10 to 12 foot seas
		1457	1900		3.0/9.6/10/11				25 knot winds
		1558	1930						
		1611	1945						
		1661	2000		4.0/9.8/11.8/10.4				
		1675	2004	010°			118	11	END OF TAPE 118
		1676	2004				119	11	START TAPE 119
		1699	2011						PARITY Error
		1712	2015						
	1700	1714							Shot point / file # check
		1766	2030						c/ delay of port gun to 3 msec
		1819	2045						tail buoy 5° starboard
		1869	2100		2.8/12.6/10.2/9.6				
		1886	2104						change record length to 8 s.
		1923	2115		2.8/10.0/10.0/9.8				
		1933	2117						change EPC near trace monitor
		1978	2130		4.2/10.0/9.4/7.2				to 8 sec. sweep
		2019	2142				119	11	END TAPE 119
		2020	2142				120	11	START TAPE 120
		2084	2200		3.2/7.8/8.4/8.6				
		2101	2205						change EPC back to 4 sec sweep
	2092	2106	2206						
		2201	2230		4.4/9.2/8.2/10.2				
		2238	2238						Using 12kHz for Bathymetry
		2264	2245			223m			
		2293	2252				120		End Reel 120
		2294	2252				121		Start Reel 121
		2324	2300			228m			

OBSERVER'S MARINE REPORT

Line 11
p.3

VESSEL Gyre-85-6-11 DATE 85 NOV 02

Client	USGS	Type instrument	JSF-V	Offset distance	~~706~~ 156m
Area	Gulf of Maine	Record filter	8 sec records 0-64 Hz	Group interval	50
State		Sample rate	4ms	Fold coverage	24
Observer	Trehu/Unger/Leeds	gun depth	10m	In.³ of guns	540 x 2

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
NOV 02	2344	2358	2307				121	11	SP/file # check
		2393	2315		3.0/8.8/10.2/9.8	222m	~~[illegible]~~		
		2458	2330		3.4/10.0/9.2/10.2	227m			
		2526	2345		3.0/12.0/9.8/9.6	230m			
		2564	2353				121		End reel 121
		2565	2353				122		Start reel 122
NOV 03		2590	0000		2.0/8.8/10.8/10.4	227			tail buoy ~ 5° Stbd.
	2631	2645	0013						turning to
		2653	0015			224m			
		2712	0030		4.8/11.2/11.8/9.4	220m			
		2772	0044						Change port delay to 4 ms (from 3 ms)
		2773	0045		4.8/11.6/12.8/10.4	220m			tail buoy ~ 0°
		2835	0100		5.0/11.2/10.6/9.4	214m			
		2838	0101				122		End Reel 122
		2839	0101				123		Start Reel 123
	2853	2887	0108						SPV file = SP + 14
		2898	0115		6.0/10.6/10.6/9.4	215			
		2964	0130		6.0/11.6/12.8/10.4	207			ON-LINE AT LAST
		2995							PE
		3026	0145		5.4/13.2/10.8/10.0	203			
		3049							PE
		3092	0200		5.6/10.8/11.4/10.8	200			
		3109	0204				123		EOT 123
		3110	0204				124		BOT 124
		3125							PE
		3156	0215		4.8/10.8/11.2/9.4	190			
		3224	0230		6.0/11.8/10.4/9.6	167	~~[illegible]~~		
		3287	0245		4.8/11.8/12.4/11.2	172			
		3356	0300		5.0/10.8/10.0/9.0	185			
		3383	0306				124		EOT 124
		3384	0306				125		BOT 125
		3425	0315		3.6/8.4/9.8/9.2	178			
		3497	0330		5.0/11.6/10.4/9.6	166			closest approach OBS #2
	(3531)	3543							file = SP + 12 – have lost 2 shots
									since last SPV – we have sped
									up through the water & are now
									slowing down
		3571	0345		6.2/12.8/12.6/10.2	1666			

OBSERVER'S MARINE REPORT

Line 11 # p4

VESSEL GYRE-85-6-11 DATE 85NOV03

Client	USGS	Type instrument	DFS V	Offset distance	~~106m~~ 156
Area	Gulf of Maine	Record filter	OUT - 64 Hz	Group interval	50 m
State		Sample rate	8 s record 4 ms	Fold coverage	24
Observer		gun depth	10 m	In.³ of guns	2×540 in³

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		3636	0400		7.2/14.8/15.2/10.0	165	125	11	streamer flow in water
		3653	0404				125		EOT 125
		3654					126		BOT 126
									Heading straight into seas —
									probably 8-10' Rough but
									not too rolly.
		3697	0415		7.6/11.2/12.2/9.8	154			programmed heads up a bit
		3755	0430		5.0/10.0/13.6/10.2	146			
		3810	0445		6.4/10.2/9.4/8.8	146			
		3846	0454						PE 95
		3871	0500		6.8/8.8/10.4/9.0	148			
		3928	0514				127		EOT 126 BOT 127
		3991	0530			141			
			0536						change P delay to 3 ms
		4100	0600			132	~~128~~		K-102 C-103 J-107 D-104
		4159	0645			110	~~128~~		
			~~0650~~						
	4164	4176	0620				127		
		4198	0625				128		EOT 127 BOT 128
		4218	0630			97			
		4329	0700		5.8/8.0/9.6/9.6	152			
		4386	0715						
		4448	0730		7.0/12.6/11.4/9.2	162			
		4472	0735				128	11	EO Reel 128
		4473	0735				129	11	BO Reel 129
		4571	0745						Vessel traffic
		4566	0809						PE
		4568	0800		8.2/11.6/10/8.4	185			Return to course
		4618	0815						
		4606	0830		4.2/9.6/8.8/8.6	190			
		4693	0838						PE
		4713	0845						
		4744	0856				129	11	EOT 129
		4745	0856				130	11	BOT 130
		4758	0900	~~206~~	4.6/8.0/9.2/8.8	206			
		4805	0915						
		4852	0930	~~205~~	3.6/6.2/9.2/10.4	205			tail buoy ~ 5° stb
	4844	4855	0931						P.E. 4855

OBSERVER'S MARINE REPORT

VESSEL GYRE-85-G-11 DATE 85 NOV 03 line 11 # p.5

Client	USGS	Type instrument	NSF-V	Offset distance	~~100m~~ 156m
Area	Gulf of Maine	Record filter	out-64	Group interval	50m
State	Kirkland/Brooks/McClenna Hutchinson/Taylor	Sample rate	4ms, 8 sec rec.	Fold coverage	24
Observer	Trehu/Unger/Leeds	gun depth	10m	In.³ of guns	540 x 2

Pre-plot	Shotpoint	File No.	Time	#1dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
NN3		4901	0945			202m	130	11	
		4953	1000		4.4/7.0/8.0/9.2	242m			
		4959	1002						Parity Error 4959
		5001	1015		4.2/9.8/9.2/9.8	205m			
		5018	1019				130	"	End Reel 130
		5019	1020				131	"	Start Reel 131
		5053	1030		4.0/10.0/9.0/8.8	192m			
		5103	1045		5.4/9.2/9.6/9.6	200m			
		5150	1100		4.4/8.8/10.4/8.8	198m			
	5146	5157	1102						tail bouy ~0°
		5159	1103						P. Error 5159
		5193	1115		3.6/9.8/11.6/10.0	202m			
		5240	1130		2.4/10.0/10.0/8.0	195m			
		5283	1145		5.0/8.8/9.4/9.2	193m			
		5287	1146				131	11	End Reel 131
		5288	1146				132	11	Start Reel 132
		5341	1200		3.6/8.4/10.4/9.6	185m			tail bouy ~0°
		5394	1215			178m			
		5451	1230		3.0/8.6/8.8/8.0				
	5444	5455	1231						
		5503	1245		3.6/8.4/10.2/9.8				
		5516	1249						Parity error 5516
		5556	1300		2.8/8.2/7.8/8.6				
		5561	1301				132		End of Reel 132
		5562	1301				133		Start Reel 133
			1309						Initial gain on REPRO=5 (had been 3 last night)
		5613	1315		4.4/8.8/9.0/9.2	186			
		5672	1330		3.2/7.6/8.0/8.0	193			
		5701	1337						PE
		5733	1345		3.2/10.8/12.6/9.6	173			
		5792	1400		3.2/8.8/9.6/9.0	180			
		5831	1410				133		EOT 133
		5832					134		BOT 134
		5851	1415		3.6/9.8/9.8/9.4	182			
	5869	5880							SP ✓ file = SP + 11
		5884	1423						Ch. 20 just gone bad w/in last 10 shots
		5911	1430		3.0/9.6/10.8/9.4	198			

OBSERVER'S MARINE REPORT

Line 11
p6

VESSEL GYRE-85-G-11 DATE 05NOV03

Client	USGS	Type instrument	DFS-V	Offset distance	~~106~~ 156m
Area	Gulf of Maine	Record filter	out - 64 Hz	Group interval	50 m
State		Sample rate	4ms, 8 sec long	Fold coverage	24
Observer	Hutchinson/Taylor	gun depth	10 m	in.³ of guns	@ 1700 PSI 2×540 in³

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		5972	1445	051	3.6/10.8/10.4/9.6	169	134	11	ch 20 still bad. - noise
		5987							PE
		6028	1500		3.8/10.0/10.0/9.2	190			just passed North end of OBS line 8
		6086	1515		4.2/8.4/8.8/8.6	193			
		6105	1520				134		EOT 134
		6106					135		BOT 135
		6142	1530		8.8/11.2/10.0/9.2	193			PE
		6160	1534						c/ port gun delay to 2ms
		6202	1545		4.2/9.8/10.0/9.4	200			
		6203							c/ post gun delay back to 3ms
	6216	6227	1552						SP ✓ SP = file - 11
		6261	1600		3.8/10.8/10.8/9.2	200			
		6321	1615		3.6/10.6/11.8/8.4	210			
		6375	1630		3.0/11.2/12.0/9.4	210	135		EOT 135
		6376					136		BOT 136
		6432	1645		3.8/9.2/9.4/8.0	211			
		6490	1700		4.6/9.2/10.4/8.8	190			
		6553	1715		2.4/9.4/9.2/9.6				
		6616	1730		5.0/9.6/10.0/10.0	200			
		6649	1739						LOG End of Reel 136
		6650	1739						BO Reel 137
		6677	1745						
		6739	1800						
		6741	1800						last shot
									EOL 11