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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A			B			C					
							SWP	DEL	LO	HI	SWP	DEL	LO	HI	SWP	DEL	LO	HI
10 AUG 84	0630Z	144.4	125.6	8.7	70													
	0625					*SAT FIX 46°42.562'N 49°36.874'W EI=39 IT=2 CT=24												
	0700	148.7	128.1	9.3	70													
	0730	153.3	128.1	8.6	70													
	0800	157.6	128.1	8.9	69													
	0820	162.0	128	8.9	70													
	0837					* SAT FIX 46°33.541'N 49°18.404'W EI=39 IT=3 CT=29												
	0900	166.4	128	9.2	70													
	0930	171.0	128	9.2	66													
	1000	175.5	126	9.2	63													
	1030	180.1	128	9.5	64													
	1100	184.8	128	9.6	68													
	1130	189.6	128	9.4	76													
	1200	194.5	126	10.4	85													
	1230	199.6	127	10.4	89													
	1300	204.8	127	9.3	91													
	1330	208.2	127	6.6	96													
	1400	211.6	127	6.6	98													
	1408					*SAT FIX 46°03.451'N 48°14.783'W EI=23 IT=4												
	1423	214.6	C/C			C/C to 130°												
	1430	214.9	127	6.8	128													
	1426					*SAT FIX 46°02.101'N 48°12.324'W EI=26 IT=2												
	1500	218.3	127	6.5	112													
	1530	221.7	129	6.8	118													
	1600	225.2	131	7.1	148													
	1600					*SAT FIX 45 55.251'N 48 02.336'W EI=67 IT=3												
	1611					*SAT FIX 45 53.833'N 48 00.043'W EI=61 IT=3												
	1630	228.7	130	7.2	230	Seabeam gate locked on - was on multiple from about 1600.												
	1642					*SAT FIX 45°51.394'N 47°56.231'W EI=7 IT=3												

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP	DEL/LO	HI	SWP	DEL/LO	HI
224 11 Aug '84	0200Z	308.1	125	9.0	3510							
	0230	312.8	125	9.2	3512							
	0300	317.5	125	9.3	3837							
	0302					SAT FIX 45°02.519' 46°12.268' EL=64 IT=3						
	0330	322.2	125	9.4	3585							
	0400	327.9	134	10.2	3626							
	0430	332.3	134	10.2	3707							
	0500	337.6	134	10.6	3771							
	0507					C/C → 134°						
	0644P					SAT FIX 45°50.282 45 53.96P EL23, IT2						
	0530	342.9	135	10.7	3856	SAT FIX 2						
	0535					44.44.578 45 45.932 EL=23 IT=3						
	0600Z	348.3	134	10.6	3928							
	0610Z					SAT FIX 44°40.182'N 45°40.096'W EL=34 IT=3						
	0630Z	353.5	134	10.6	4010							
	0700Z	358.9	134	11.1	4069							
	0730Z	364.5	134	11.1	4184							
	0750Z					SAT FIX 44°31.548'N, 45°27.516'W EL=62, IT=3, ET=722						
	0750Z											
	0800Z	369.7	134	10.3	4195							
	0810Z	371.6				SAT FIX 44°27.185'N 45°20.891'W EL=47, IT=2, ET=758						
	0815Z	371.6	C/C			C/C → 137°						
	0830Z	374.8	137	9.8	4246							
	0900Z	379.9	137	10.4	4271							
	0903	380.5	C/S →			C/S → 150 rpm						
	0917	382.4	C/C			C/C → 145°						
	0919Z					C/S → 100 rpm						
	0908Z					SAT FIX 44°18.467' 45°08.746' EL=10, IT=3						
	0930	383.8	145	5.1	4251							
	0956	386.3	145	5.0	4272	Maggie up + off						

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP	DEL/LO	SWP	DEL/LO	SWP	DEL/LO
11 AUG 84	1952Z	419.7	C/C	5.5		C/C → 253°						
	2000	420.6	253	5.4	4567							
	2030	423.4	235	5.8	4528	C/C → 236°						
	2100	426.2	236	5.6	4474	C/C → 256°						
	2110	427.3	C/C			C/C → 292° to START POINT						
	2112	427.4		C/S		C/S → 112 rpm.						
	2116	427.7		C/S		C/S → 104 rpm						
	2127	428.6		C/S		C/S → 100 rpm						
	2130	428.9	293	4.8	4379							
	2132					C/S → 102 rpm						
	2132					C/C → 290° rpm						
	2131					start MCS #1						
	2200	431.25	289	4.7	4325	2008 GAIN OUT OF FILTER ON MONITOR RECORD "B"						
	2215					START 5 SEC. RECORD ON PROFILER "A". 5 SEC. DELAY; 20 DB GAIN ON FILTER						
	2230	433.1	288	5.0	4273							
	2230											
	2300	436.7	289	5.0	4201							
	2330	438.9	289	5.0	4152							
	2350	440.5	289	5.1	4127	data logger washed						
	2352	440.8				on 30-sec cycle for a few shots						
	2354					20-sec cycle						
12 Aug	0000	441.4	289	4.9	4118							
	0030	443.8	289	4.9	4101							
	0100	446.3	290	4.7	4104							
	0130	448.7	289	4.6	4127							
	0200	451.1	290	5.1	4094							
	0201					SAT FIX 44 34.00N; 45 28.88W EL=18; IT=4						
	0230	455.3	289.0	4.6	4053							
	0213					SAT FIX 44 34.439; 45° 29.908 EL=32 IT=2 CT=23						

DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP DEL	LO HI	SWP DEL	LO HI	SWP DEL	LO HI
12 AUG	0300	455.1	289	4.6	4042		5/5	10/50	10/3	10/50	10/5	0-5/7
225	0323	457.1				C/S; C/C to 130 rpm; 291°						
	0330	458.3	291	4.9	4021	Deploy sonobuoy #2						
	0347	460.7				SAT FIX 44 37.835; 34 45° 39.071 EL=67; IT=3						
	0400	460.8	291	5.1	3994							
	0400					SAT FIX 44 38.323 W 45 40.163 (EL=46; IT=3; CT=21)						
	0430	463.5	291	5.1	3949							
	0500	466.1	290	5.1	3928							
	0444					SAT FIX 44 39.836 N 45 44.640 EL=10 IT=9						
	0530	468.6	290	5.0	3891							
	0530					SAT FIX 44° 41.396' N 45° 49.116' W EL=10 IT=3						
	0545		C/C			C/C 287°						
	0600	470.8	287	5.0	3853							
	0547					* SAT FIX 44° 41.971' N 45° 50.851' W EL=26 IT=3						
	0630	473.7	287	5.1	3817							
	0632					* SAT FIX 44° 43.161' N 45° 55.296' W IT=3 EL=62						
	0700	476.2	287	5.0	3790							
	0710					change Delay Profiler ^{"A"} from 5 to 3 sec	5/3	10/50	10/3	10/50	10/5	0-5/70
	0730	478.6	286	5.0	3760							
	0730					* SAT FIX 44° 44.538' N 46° 01.445' W EL=65 IT=3						
	0800	481.0	287	4.5	3732							
	0818											
	0830	483.4	291	5.1	3701	C/C → 291° C/S → 1150 rpm END SONOBUOY #3						
	0900	486.0	291	5.3	3669	W 44 47.43 N						
	0930	488.1	291	5.4	3632	44° 47.43' N 46° 12.10' W DEPLOY SONOBUOY #4						
	0924					* SAT FIX 44° 47.097' N 46° 11.940' W EL=10 IT=2						
	1000	491.4	291	5.3	3629							
	1030	494.2	291	5.5	3618							
	1100	497.0	291	5.6	3627							

DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP DEL	LO HI	SWP DEL	LO HI	SWP DEL	LO HI
12 Aug	1130	499.8			3599	Date logger + DFS aut - 63 Hz → 125 Hz						
	1130	499.8	290	5.6	3576							
	1150	501.6				End of Sonobuoy #4						
	1154	502.1			3568	C/C → 292°						
	1200	502.7	292	6.6	3572							
	1220	504.4	293	5.9	3564	C/C → 292 293°						
	1230	505.5	293	5.8	3562	Sonobuoy #5 start						
	1300	508.5	292	6.0	3578							
	1330	511.3	293	5.8	3633		5/3					
	1338	512.7				Prof "A" delay changed	5/4					
	1400	514.2	293	5.6	3623							
	1402					SAT FIX 44° 56.86 N 46° 42.63 W EL18/IT3						
	1416					SAT FIX 44 57.825 N 46° 44.99 W EL=32, IT=3 CT=30						
	1430	517.4	293	5.6	3642							
	1445											
	1500					Stop recording SB #5	5/3		6/3			
	1500	519.9	293	5.9	3587							
	1500					C/C to 290, C/S 103 rpms						
	1530	522.5	290	5.1	3559							
	1540	523.9	290	5.1	3564	deploy sonobuoy #6	5/3		10/3		10/0	5/70
	1539					SAT FIX 45 01.000, 46 53.509 EL=82; IT=3						
	1600	525.1	290	5.1	3552							
	1602					SAT FIX 45 01.777, 46 56.68 EL=48 IT=3						5/70
	1630	527.6	290	5.0	3503		5/4.0	10/50	10/3	10/50	10/0	5/40
	1643	528.6									10/6	
	1700	530.1	290	5.1	3477							
	1649	530.4	290	5.1	3467	SAT FIX 45 03.141 N 47 00.782 W EL=10 IT=5						
	1717	531.5				SAT FIX 45° 03.712' N, 47° 02.743' W EL13/IT5						5/40
	1720					CHANGE SONO FILTER TO 5-30 Hz						5/30
	1725					" " " 3-30 Hz						3/30
	1730	532.6	290	4.8	3408							

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C							
							SWP	DEL	LO	HI	SWP	DEL	LO	HI	SWP	DEL	LO	HI
12 AUG 84	1725					SAT FIX 45° 04.257' N 47° 04.570' W λ EI=15 IT=3												
225	1744					CONTINUE NB-1												
	1800	534.5	290	4.9	3377													
	1750					SAT FIX 45 05.070 47 07.021 λ EI=7 IT=4												
	1811					CHANGE SONO DELAY TO 9.0 SEC											10/9	3/30
	1830	537.4	290	4.5	3369													
	1834	5				SAT FIX 45° 06.162 N 47° 11.310' W λ EI=59, IT=3											OFF @	
	1900	539.7	290	4.8	3315												1848	
	1857					SAT FIX 45° 06.801' N 47° 13.718 W λ EI=70 IT=3												
	1912					*C/S \rightarrow 108 rpm.												
	1917					*C/S \rightarrow 112 rpm												
	1930	542.4	290	5.2	3325													
	2000	544.8	290	5.4	3293													
	2003	5				C/S \rightarrow 110 rpm												
	2030	547.6	291	5.6	3223													
	2031					*SAT FIX 45° 09.146 N 47° 22.699 W λ EI=26, IT=3												
	2055					*SAT FIX 45° 09.854 N 47° 25.347 λ EI=24 IT=3												
	2056					C/C \rightarrow 292 on hour.												
	2100	550.4	292	5.6	3084													
	2130	553.1	292	5.5	2991	STYL1 CLEANED ON PROFILER B												
	2135					CHANGED DELAY ON PROFILER A TO 3 1/2 SEC.												
	2200	555.9	293	5.4	2923													
	2230	558.7	292	5.7	2845													
	2210					~15 min (to 2225) Loran C speed readout was down due to bridge tracking												
	2300	561.55	292	5.8	2661													
	2310	562.5				CHANGE DELAY ON PROFILER "A" TO 3.0 Sec.												
	2330	564.4	292	5.5	2543													
226	0000	567.2	292	5.6	2509													
	0030	570.0	292	5.7	2231	CHANGE DELAY ON "A" TO 2.5 sec. on "B" to 2.0 sec.												

ALSO PAPER ADJUSTMENT ON "B" PROFILER, NO TIME LOST

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A			B			C		
							SWP	DEL	LO	SWP	DEL	LO	SWP	DEL	LO
Aug 13	1500	643.6	293	5.1	68	Data Logger Tape 197 off, 198 on	5	0		10	0		0	0	0
	1501	643.7				Increase speed to 116 RPM									
226	1502	643.75				c/c 298°									
	1510	644.5				Airguns 1 and 2 back on line.									
	1516	645.0				c/c 320									
	1518	645.2				c/c 341									
	1522	645.4				c/c 001									
	1530	646.1	002	5.0	66										
	1537	646.7				c/c 012°									
	1545	647.4				c/s 100 rpm's ; c/c 034°									
	1547	647.6				c/c 054°									
	1552	648.0				change paper Profiler B - off									
	1553	648.1				c/c 075									
	1556	648.4				Profiler on line									
	1558	648.5				c/c 092									
	1600	648.8	114	5.0		c/c 114									
	1602	649.0				c/c 134 c/s 96.0									
	1608	649.2				c/c 114 on line 03									
	1616					SAT FIX 45° 08.647' N 48° 59.982' W EL 50 IT= 3									
	1630	651.3	113	5.1	67										
	1649	652.95	111	5.1	68	c/c → 111°									
	1700	655.9	111	5.1	69	SAT FIX 45° 06.754' N, 48° 55.540' W EL 20 IT= 3									
	1711	654.8	105	5.0	83	c/c → 105°									
	1729					c/s → 98 rpm									
	1730	656.4	106	4.7	228										
	1722					SEABEAM SWATH PLOTTER BACK ONLINE									
	1740					2 AXIS DOPPLER SWITCHED TO WATER-LOCK									
	1745					45° 04.780' 48° 50.718' EL= 25 IT= 3									
	1800	658.0	c/c	5.1	650	c/c → 100°									
	1804					C/F	5/00	15/62	10/00	8/62	11/2				

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A			B			C		
							SWP	DEL	LO	SWP	DEL	LO	SWP	DEL	LO
13 AUG	1819Z	660.4	C/C			10 C/C → 1050									
226 (N.D.)	1830	661.4	105	5.0	996										
	1834Z					*SAT FIX 45° 03.060'N 48° 46.008'W EL=48 IT=3 CT=36									
	1853	663.2	C/C			C/C → 108°									
	1900	663.9	108	5.0	1233										
	1904	664.2		C/S		C/S → 100 rpm				2/65		7/65			
	1941					C/S → 112	5/0	2/65		10/0	7/65				
	1919Z	665.5	C/C			C/C → 112°									
	1930	666.4	112°	5.0	1303										
	1942	667.4	C/C			C/C → 109°									
	1931					*SAT FIX 45° 00.869' 48° 39.874 EL=59 IT=3									
	2000	668.3				SONOBUOY LAUNCHED, NO SIGNAL (9A) - NOG									
	2000	668.9	108	4.9	1390										
	2003					SONOBUOY LAUNCHED - NOT WORKING (No. 98) DATA LOGGER TAPE 198									
						62 CAUGHT ON STREAMER AFTER 24 SHOTS									
	2025					CHANGED DELAY ON PROFILER A FROM 0. → 2 sec.									
	2030	671.4	109	5.1	1611										
	2036	671.5				C/C → 110°									
	2051	673.9				C/C → 111°									
	2100	674.0	111	5.1	1532										
	2105	674.1				C/C → 113° Increase gain on 3.5 kHz profiler									
	2113	675.1				C/C → 113°									
	2130	676.5	114	5.0	1774										
	*2119					*SAT FIX 44° 56.175'N 48° 28.136'W EL=9 IT=4									
	2132					MAGGIE OUT OF INK (NO MARK YET ON 1/2 HR)									
	2143	677.6				C/C → 117									
	2148	677.9	117	5.0	1830	Sonobuoy #9 launched							10/0	5/70	
	2200	678.9	116	5.0	1881										
	2230	681.5	117	5.3	2070		5/2	2/68		10/0	7/67				
	2254	683.6				CHANGE DELAY ON PROFILER A TO 3 SEC.	5/3	2/68		10/0	7/67	10/0	5/40		

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP DEL	LO HI	SWP DEL	LO HI	SWP DEL	LO HI
13 AUG 84	2300	684.2	117	5.3	2405						10/0	5/40
	2307.30					CHANGE DELAY ON PROFILER C (SONO) TO 7.0 SEC,					10/7	5/40
	2312					CHANGE FILTER ON " " (") TO 5-30					10/7	5/30
	2330	687.0	117	5.5	2665				10/0			
	2350	688.8				CHANGE DELAY ON PROFILER "B" TO 3.0 SEC			10/3			
14 AUG 84	0000	689.7	117	5.6	2847		5/3.0					
	0007					CHANGE DELAY ON PROFILER "A" TO 3.5 SEC	5/3.5					
	0017					SB # 17 ended on ^{mcs} tape 92 (SHOT 53), on data logger and on Profiler "C".						OFF
	0025	692.0	120	5.4	2982	c/c → 120°						
	0030	692.5	120	5.3	3011							
	0058		119	5.3		SB # 10 ^A channel 10 - too noisy, aborted						
	0100	695.2	119	5.3	3110							
	0120	696.8	120	5.3	3169	SB # 10, channel 6 yeah team!						
	0119					channel delay changed on airgun #4 015→014						
	0130	697.8	120	5.2	3194							
	0200	700.	119	5.2	3262							
	0230	702.9	119	5.2	3357							
	0222					SAT FIX! 44° 44.087' 47° 54.180' EL=36 IT=3	5/4.0	21/68	10/3	7/68		
	0300	705.6	119	5.0	3415	change delay Profiler A	5/4.5	21/68	10/3	7/68		
	0314					SAT FIX 44° 42.208' 47° 48.577' EL=67 IT=3						
	0330	708.2	119	5.6	3474							
	0400	710.8	119	5.0	3529							
	0410					Sonobuoy #10 record extends beyond 125						
	0408					SAT FIX 44° 40'.4 N; 47° 43.147 W EL=40 CT=33 IT=3						
	0430	713.3	119	5.2	3573	end Sonobuoy #10						OFF
	0434	713.6	1			C/C 126°						
	0500	715.8				C/C 128°						
	0451					SAT FIX 44° 38.676 N; 47° 38.315 W EL=11 CT=21 IT=4	5/4.5		10/3.0			
	0520	717.7				C/C 131°						

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP	DEL/LO	HI	SWP	DEL/LO	HI
227	1944	792.0	c/c			c/c → 090°						
14 AUG	2000	793.4	090	5.1	3926							
1984	2000											
	794.7	794.7				* SAT FIX 44.13 778 45° 53.573' EL=38 IT=3						
	2030	795.9	091	5.1	3967							
	2033	796.2				c/c → 095°						
	2028					* SAT FIX 44° 13.519' N 45° 50.378' EL 18 IT=5						
	2100	798.5	095	5.1	4052							
	2130	800.9	094	4.9	4146							
	2138	801.6				c/c → 099°						
	2200	803.4	097	5.0	4267							
	2230	806.0	100	5.0	4388							
	2257	808.3				c/s → 100 RPM						
	2300	808.5	100	5.0	4403							OFF
	2314	809.7	099	5.0	6932	SBuoy 13 launched					10/0	5/10
	2330	811.0	099	5.2	4424						10/0	5/10
AUG 15	228	0000	813.6	099	5.1	4457	C/F ON PROFILER "C" TO 5-40 Hz				10/0	5/40
	0010	814.4		5.0		C/DELM " TO 6 Sec.					10/6	5/40
	0030	816.0	099	5.0	4525	C/F ON " TO 3-40 Hz						3/40
	0100	818.5	098	4.7	4515							
	0130	821.0	099	5.0	4515	PIT LOG SHOULD READ 821.0 nm					10/6	
	0142	821.9				CHG. DELAY ON PROFILER "C" TO 7 Sec.					10/7	
	0132					* SAT FIX 44° 06.65' N 45° 08.45' W						
	0155					c/s — disregard 0149 End SB. 13	5/6	10/30	10/4	8/100		—
	0200	823.4	99	4.5	4425							
	0230	825.6	99	4.5	4426							
	0206					SAT FIX 44 06.09 N 45 03.546 W EL=24 IT=3 CT=24						
	0240	826.4				c/s 92 rpm's						
	0300	827.6	98	4.1	4419	deploy SBuoy 14 T=66° Seastate=3					10/6	5/30
	0330	829.8	98	4.3	4425							

DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C							
							SWP	DEL	LO	HI	SWP	DEL	LO	HI	SWP	DEL	LO	HI
228	0320					SAT FIX 44 05.049 N 44 54.202 W EL=69 IT=3 CT=35	5	5	10	70	10	4	8	60	10	0	5	70
Aug 15 1984	0343					end data logger tape 199 / begin 200												
	0348	831.8				end sonobuoy #14 tape 141 SP 031 bad transmitter												
	0400	832.0	105	4.3	4475	C/C 105 C/S 86												
	0430	833.9	C/C	4.1	4533	C 110°												
	0440					SAT FIX 44°03.909' N 44°43.162' W EL=10 IT=5												
	0500	835.9	110	3.9	4594													
	0510	836.5	C/C	4.1	4614	C/C → 115°												
	0505	"				SAT FIX 44°03.619' N 44°39.827' W EL=11 IT=5												
	0530	837.8	116	3.9	4644													
	0542		C/C			C/C → 115°												
	0600	839.8	123	4.0	4688													
	0600					C/C → 125°												
	0549					* SAT FIX 44°02.531' 44°34.138' EL=40 IT=2												
	0610	840.5				C/C → 105° BEGINNING OF NEW LINE TURN												
	0612	840.6				→ 085°												
	0616	841.0				C/C → 045°												
	0620	841.0				C/C → 025°												
	0621	841.0				C/S → 90 rpm												
	0622					C/C → 005°												
	0622					C/S → 100 rpm												
	0624	841.4				C/C → 345°												
	0625					C/C → 350°												
	0630	841.9	008	5.1	4710	C/C → 010°												
	0635	842.3				C/S → 92 rpm.												
	0627					SAT FIX 44.02.748 44 30.515 EL=60 IT=3 CT=37.												
	0700	844.0	009	4.4	4714													
	0706					CHECKED GRAVITY ✓												
	0716					CHANGED DELAY OF PROFILE A TO 5.5	5	5.5	10	70	10	4	8	60	10	0	5	70
	0725					C/C → 348° = BEGIN NEW LINE TURN												
						C/S → 105 rpm.												

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Newfoundland Basin

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP	DEL	SWP	DEL	SWP	DEL
15 Aug 84	1400	885.9	295	5.8	4448	CSE = 295						
	1358					SAT FIX 44° 16.812' 45° 14.677' EL = 26 IT = 3						
	1414		C/C	C/S		C/C → 300° C/S → 116 rpm Seabeam Calcomp not printing - changes working on it.						
	1422	887.9		C/S		C/S → 124 RPM						
	1430	888.6	300	5.5	4454							
	1500	891.4	300	5.6	4462							
	1530	894.3	300	5.7	4416							
	1534			C/S		C/S → 118 rpm						
	1521					SAT FIX 44° 19.687' N 45° 24.677' W EL = 69 IT = 3						
	1543					SAT FIX 44° 20.318' N 45° 26.825' W EL = 58 IT = 2						
	1600	896.9	300	5.3	4345		5/5.5	10/70	10/4	8/62		
	1630	899.6	301	5.3	4280							
	1655	901.9				change AG #4 delay to 15s						
	1700	902.2	301	5.1	4225							
	1709					SAT 44 22.792° 45 36.245 EL = 11 IT = 3						
	1730	904.8	300	5.1	4173	SAT 44 23.389 N; 45 38.577 EL = 9 IT = 3 CT = 23						
	1730					Profilers A & B out - no data into DATA						
	1745					DFS switch changed. Profilers A & B in	5/5.5	10/70	10/4	8/62		
	1800	907.5	300	5.4	4102	CHANGE DELAY ON PROFILER "A" TO 5.0 SEC.	5/5	10/70	10/4	8/62	OFF	
	1804	907.9	297			C/C → 297°						
	1825	909.8				C/C → 300°						
	1830	910.1	300°	5.5	4055							
	1842	911.3		C/S		C/S → 122 rpm						
	1856	912.4	C/C			C/C → 297°						
	1900	912.7	297	5.4	3949							
	1924	915	C/C	6.1		C/C → 292						
	1927	915.6	C/S	8'		C/S → 110						
	1930	915.6	293	4.9	3898							
	1952	917.4				C/C → 297°						
	2000	918.0	297	4.8	3861							

15/16 Aug. 1984

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DATE	TIME GMT	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP	DEL/LO	HI	SWP	DEL/LO	HI
(228) 15 AUG 84	2002					c/s → 114 rpm						
	2014					c/c → 300°						
	2030	920.7	300	4.9	3834							
	2034	921.0				c/c → 298						
	2100	923.2	299	5.4	3811	c/c → 295						
	2102					c/c → 295°						
	2130	926.0	297	5.6	3841	c/c → 297°						
	2124					* SAT FIX 44 28 736 46 03.533 EL-8 1128						
	2200	928.7	297	5.4	3827							
	2209					increase c/s → 118 RPM						
	2210	929.7	297	5.4	3828	start SB #17						
	2230	931.6	297	6.0	3831							
	2300	934.4	296	5.6	3807							
	2330	937.1	296	5.2	3781							
(229) 16 Aug	0000	939.8	297	5.3	3784							
	0030	942.5	297	5.2	3775	c/c 275° SB #17 ended shot 726 reel 726						
	0032					c/c 262°						
	0035					end Line 6 - Begin Line 7						
	0045					guns 1 + 4 are off (compressor mainten.)						
	0100	947.2	253	5.8	3737	c/c 250°						
	0101					guns 1 + 4 back up; blast phone 1						
	0130	948.2	235	5.6	3760	c/c 235°						
	0200	950.9	235	5.5	3848							
	0230	953.8(8)	235	5.6	3844							
	0300	956.6	235	5.6	3865							
	0243					SAT Fix: 44° 28.900' N, 46° 38.643' W El: 46 It: 3 Ct: 16						
	0306		c/c			c/c → 110°						
	0230					SAT FIX 44° 29.564' N 46.36.955' W 1						
0330	959.3	235	5.1	3883		6/5		10/4				
0400	961.7	235	5.3	3894								

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SONOBUOY #18 LAUNCHED

AUGUST 1984

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP	DEL/LO	HI	SWP	DEL/LO	HI
16 Aug	1201Z	1004.1			4148	c/c → 202°						
	1220					c/c 197°						
	1230	1006.6	197	5.4	4163							
	1240					c/c 192°						
	1300	1009.2	189	5.1	4127	c/c 187°						
	1320	1010.8	187	5.1	4112	c/c 182°						
	1330	1011.7	183	5.2	4108							
	1400	1014.2	183	5.0	4098		5/5	2/65	10/4	7/60		-
	1430	1016.8	182	5.2	4092							
	1432					SAT FIX 43 36.26 N 47 11.654 EL=51 IT=3 CT=25						
	1500	1019.3	181	5.0	4140							
	1512	1020.1			4125	Deploy Sonobuoy #19 c/s 106.0 rpm					10/6	05/40
	1530	1021.8	182	5.4	4114	1552 CH4 DELAY ON "C" TO 4 SEC.					10/4	5/70
	1600	1024.5	182	5.4	3990							
	1603					c/f m" c" to 5-30 Hz					10/4	5/30
	1630	1027.2	181	5.3	3923	c/f " " " 3-20 Hz					10/4	3/20
	1620					SAT FIX 43°26.941' N 47°12.475' W EL 33 IT 3 #200					10/4	3/20
	1700	1029.9	181	5.4	3888	CHANGE DELAY ON "C" TO 7 SEC.					10/7	3/20
	1701					SAT FIX 43°23.427' N, 47°12.682' W - EL 16/IT 3/CT 24 #130						
	1730	1032.5	181	5.0	3840							
	1726					SAT FIX 43°21.319' N, 47°12.725' W EL 21/IT 3/CT 30 #480						
	1800	1035.2	181	5.4	3785							
	1815	1036.6	c/c			c/c → 187°						
	1818	1037.0		c/s		c/s → 104 rpm						
	1830	1038.0	187	5.4	3753							
	1900	1040.6	192	5.5	3723							
	1833	1				c/c → 192°						
	1907					change delay Profiler "A" → 4.5 sec						
	1930	1043.3	193	5.3	3718							
	2000	1045.9	192	5.2	3712							

MAIN LAB LOG

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C		
							SWP	DEL	LO	HI	SWP	DEL	LO
16 AUG	2026					c/c 189°							
	2030	1048.6	189	5.1	3687								
						4305.952N 4716.574W EL 15 ft							
	2034					*SAT FIX 4306.629N 4716.397W EL 15 ft							
	2045					0/5 → 108 rpm							
						GUN #1 is firing erratically (± 3 ms) / GUN OUT!							
	2100	1051.2	189	5.5	3689								
	2102					*SAT FIX 43°04'29N 47°17'07W EL 13 ft							
	2130	1053.8	189	5.4	3693								
	2132					C/S → 113							
	2135					4 GUNS FIRING (GUN #1 BACK IN SERVICE)							
	2139					GUNS 1 & 4 TURNED OFF DUE TO COMPRESSOR PROBLEMS							
	2151					GUNS 1, 2, 3, WORKING							
	2200	1056.7	190	5.7	3699								
	2138					2138-2158 - no profiler record on A or B - blast phone trip incorrectly set.							
	2210	1059.6			3698	bridge says "hmm" - lift strainer?							
	2219					Gun 1 delay increased from 14 to 15 ms to align pulses on guns 2/3.							
	2222	1058.7	189	5.7	3703	All four augurs now operational.							
	2223					Delay on gun 4 increased from 14 to 15 ms to align pulses.							
	2224	1059.0	189	5.7	3705	shipping to cross bow							
	2225	1059.3				4 guns firing again; gun #4 delay → 14 ms							
	2230	1059.5	189	5.7	3706								
	2242	1060.6				400' freighter to cross from port bow 1.5 ahead							
	2300	1062.4	189	5.7	3720								
	2330	1065.2	189	5.7	3774								
	2342	1066.3	188	5.7	3803								
						c/c → 185°							
17 AUG	2400	1068.0	184	5.6	3845								

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP DEL	LO HI	SWP DEL	LO HI	SWP DEL	LO HI
230	1510					SAT FIX 42 02.247N 47 33.214 W EL=80 IT=10 CT=32 206	5/5	10/75	10/4	7/60	10/0	5/70
Aug 17	1530	1150.0	192	5.7	3976							
	1529				3977	SAT FIX 42 00.795 47 32.880 EL=60 IT=3 CT=35 110						
	1548	1151.75				CHANGE DELAY ON SONO PROFILER "C" TO 5.0 SEC.					10/5	5/70
	1552	1152.15				" FILTER " " " TO 5-40 Hz						5/40
	1600	1152.8	193	5.5	3981	seabeam down for check/change						
	1612					SAT FIX 41° 57.464' N 47 33.834 W EL=4 IT=7 #130	CT=11					
	1630	1155.6	193.9	5.4	3963							5/40
	1632					C/F on Sono Profiler "C" to 4-30 Hz						4/30
	1646					ok gun traces on oscilloscope - good ✓.						4/30
	1652					C/F on Sono PROF "C" to 3/20 Hz, incr. gain						3/20
	1700	1158.2	193	5.2	3962							
	1656					SAT FIX 41° 54.061' N 47° 34.829' W EL=16 IT=3 #200						
	1730	1160.9	193	5.3	3949							
	1800	1163.6	192	5.5	3937							
	1857					SAT FIX 41° 49.860' N 47° 35.993' E EL=41 IT=3 #130						
	1830	1166.4	193	5.5	3951	C/S → 122 rpm						
	1837	1167.1	c/c			C/C → 196°						
	1840					Stylus cleaned on Profiler "B"						
	1851					Change delay on Gun #4 from 14 to 15 ms.						
	1856	1169.0				C/C → 199°						
	1900	1169.3	199	5.8	3992							
	1853					* SAT FIX 41° 45.242' N 47° 37.387' W EL=84 IT=3 CT=35						
	1930	1172.2	199	5.8	4775							
	1946	1173.8	C/C	5.7		C/C → 197						
	2000	1175.1	197	5.9	4042							
	1944	1175.1				* SAT FIX 41° 41.027' N 47° 38.238' W EL=33° IT=3 CT=32						
	2006	1175.65	197	5.9	4072	SONOBUOY #23A LAUNCHED - DIED					10/0	5/70
	2030	1178.1	196	6.0	4086							
	2033	1178.4				C/C → 199° C/S → 120° rpm.						

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A			B			C		
							SWP	DEL	LO	HI	SWP	DEL	LO	HI	SWP
230	2044	1179.5				SONOBUOY # 23 LAUNCHED A-OK	5/5	10/25		10/4	2/60	10/6	5/70		
Aug 17	2041					* SAT FIX 4°36'11.0' 47°39'18.3' E=17 N=6 CD25	5/5	10/25		10/4	2/60	10/6	5/70		
	2100	1180.9	189	5.7	4105										
	2130	1183.7	199	5.8	4186	4025m									
	2133					CHANGE SWEEP ON SONO. PROFILER C TO 5-15 sec.									
	2138					C/F " " " TO 5-40 Hz									
	2200	1186.7	198	5.8	4186	3954									
	2222					C/F " " " TO 3-30 Hz									
	2228					Mortie says Air hose leak at Gun #4									
	2230	1189.5	199	5.7	4186	Gun #4 pulled to fix air hose.									
	2233					C/SWEEP ON PROFILER C" (SONOB.) TO 7-17 sec									
	2240					END SONG #23	5/5	10/70		10/4	8/62		OFF		
	2300	1192.4	198	5.7	3813										
	2310					END OF LINE 9 / Begin Line 10									
	2311	1193.5			3805	C/C → 220°									
	2330	1195.3	220	5.9	3800										
	2332	1196.5	220	5.5	3807	(Gun 4 already off) guns #1 & 2 turned off for compressor check									
	2356	1197.8			3815	gun #1 working - end compressor check									
231-AUG 18															
	0000	1198.2	219	5.8	3802										
	0005					C/S → 118 RPM									
	0030	1200.9	220	5.4	3744										
	0035					C/C 225°									
	0044					gun #4 back on line.	5/5								
	0045					delay on Profiler changed from 5.0 → 4.5 sec	5/5								
	0056					Increase delay on air gun #4 from 15 to 14 ms.									
	0100	1203.6	226	5.5	3645										
	0118					C/C 230°									
	0130	1206.3	229	5.3	3517										
	0141					Water temp 83° - Gulf Stream's fault that we're having trouble staying on the line									

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP	DEL/LO	HI	SWP	DEL/LO	HI
231	0800	1241.7	199	5.2	3596	SONOBUOY #25 LAUNCH						
	0830	1244.4	200	5.3	3509							
	0839					* SAT FIX N40°49.004 48°28.665 EL=11 IT=4 CT 23 #130						
	0900	1247.0	200	5.3	3542							
231	0856	1248.3	200	5.2	3598	* SAT FIX N40°47.668 48°29.400 EL=13 IT=3 CT 27 #480						
	0930	1249.6	200	5.2	3726							
	1000	1252.2	199	5.2	3767							
	1030	1254.8	200	5.3	3643	End of SB #25						
	1035	1255.2	200	5.3		C/C → 205°						
	1100	1257.4	209	5.3	3538	C/C → 210°						
	1130	1260.1	211	5.2	3553							
	1200	1262.7	216	5.2	3622							
	1210	1263.6	215	5.2	3633	C/C → 205°						
	1230	1265.3	216	5.1	3685							
	1300	1267.9	215	5.0	3706							
	1305					# SB 26 deployed					10/0	5/10
	1330	1270.3	215	5.1	3745						10/0	5/20
	1400	1272.8	215	5.1	3785						10/6	5/25
	1402					SAT FIX 40°25.74 N 48 48.907 EL=24 IT=3 CT=27 #200						
	1430	1275.4	215	5.1	3828		5/45	10/70	10/4	7/60		5/25
	1438					C/F Prof. "C" (Sono) → 4-30 Hz					10/6	4/30
	1447					C/F " 3-20 Hz					10/6	3/20
	1440					SAT FIX 40 23.08 48.52 035 EL=58 IT=3 CT=35						
	1500	1277.9	215	5.0	3868							
	1520	1279.9				CHANGE DELAY ON AIRGUN #1 TO 12 ms.						
	1524	1280.0				End sonobuoy #26 File 467 tape #285						
	1526	1280.2				clc to 218 c/s 108 rpm						
	1530	1280.5	218	4.9	3923							
	1552	1282.7				ds 106 rpm						
231	1600	1546				SAT FIX 40 46.40 48.54 N 48 57.74 W EL=55 IT=2						

DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	SWP DEL	A LO	HI	SWP DEL	B LO	HI	SWP DEL	C LO	HI
Aug 18-84	1600	1282.9	218	4.9	3992										
231	1630	1285.2	218	4.5	4045										
	1626					SAT FIX 40° 16.171' N 49° 00.963' W 22 11:3	5	4.5	10	20	12	8	61		
	1641					Decrease delay on Gun #4 from 15 to 14 ms.									
	1700	1287.0	218	4.3	4084	SAT FIX 40.13.895 49 03.891 EL=16 IT=4 #130									
	1707					↑ (above SAT FIX)									
	1716					C/S → 110 rpm									
	1730	1289.6	218	4.5	4148	C/S → 112 rpm									
	1734					C/C → 214									
	1733					SAT FIX 40° 12.352' N 49 05.684' W 1 EL=6 IT=5 #200									
	1752					C/S → 105 rpm									
	1800	1292.0	214	4.4	4192	.									
	1824	1293.8				C/C → 219° C/S → 112 rpm									
	1830	1294.2	219	4.9	4267										
	1831					SAT FIX 40° 08.783 49° 09.357 EL=57 IT=2 CT=37 #480									
	1845	1295.5	4/c			C/C → 221°									
	1900	1296.7	221	4.8	4340										
	1853					SAT FIX 40° 07.461 49° 10.944 EL=79 IT=3 CT=34 SAT #130									
	1930	1299.0	221	4.5	4435										
	1938	1299.6	/	C/S		C/S → 116 rpm									
						At 1753 ship will go through end pt									
	2000	1301.2	221	4.3	4521										
	2009					C/S → 222 rpm									
	2014					C/C → 241° beginning turn END LINE NB-10, BEGIN LINE NB-11									
	2016					C/C → 263°									
	2018	1302.6				C/C → 285°									
	2019					AIRGUN #1 - FINING OFF									
	2027					C/C → 297°									
	2029					C/C → 313°									
	2027					AIRGUN #2 - FINING OFF									

1308.1 - 35 5.4 4588

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP	DEL/LO	HI	SWP	DEL/LO	HI
232	2305					data logger alarm						
	2310					data logger on line						
	2317	1433.1	095	6.0	3979	C/C → 095°						
	2319	1433.4	109	5.7	3973	C/C → 115°						
	2320	1433.5			3974	C/C → 135°						
	2327	1434.1	112	5.7	3977	C/C → 095°						
	2328	1434.2	104	5.7	3972	C/C → 095° GUNS FIRING #1, 3, 4						
	2330	1434.5	091	6.3	3970	C/C → 075°						
	2332					C/C → 055°						
	2334					C/C → 035°						
	2336	1435.1				C/C → 015°						
	2338					C/C → 000°						
	2339					C/C → 345°						
	2341					C/C → 325°						
	2343					C/C → 305°						
	2345					C/C → 285°						
	2346					C/S → 130 RPM						
	2347					C/C → 265°						
	2349					C/C → 245° C/S → 135 RPM						
	2350					C/C → 225°						
	2352					C/C → 205°						
0233	0000	1437.2	203	4.7	3965							
	0002					C/C → 303° → on course for Line 12 ←						
	0008					C/S → 120 RPM 1st shot Line HB 12						
	0014					C/S → 115 RPM						
	0015				3957	C/C → 298°						
	0016					C/S → 110 RPM						
	0022					C/S → 105 RPM						
	0023					Crossed Line 12 - eel straight						
	0028					C/S → 100 RPM						

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP	DEL	LO	HI	SWP	DEL
233	1230	1496.0	297	5.4	3759		5/35	10/10	10/4	8/62	OFF	
	1300	1498.6	300	5.2	3754							
	1303					(SAT FIX) 40° 49.734'n 48° 26.545'W el:12 it:4 ct:20						
	1330	1501.2	299	5.2	3346	C/C 300°						
	1334					gun # 3 in the water						
	1335					gun # 3 firing						
	1340					GUN # 4 FIRING						
	1330					(SAT FIX) 40° 51.02'n 48° 29.20'W el:16 it:3 ct:23						
	1355					gun #2 on deck						
	1358					C/C 303						
	1400	1503.8	302	5.3	3292							
	1430	1506.5	302	5.4	3182							
	1440	1507.4				C/C 300						
	1500	1509.1	300	5.2	3163							
	1504					C/C 305						
	1448					SAT Fix 40° 54.818'N 48° 36.062'W EL=79 IT=3 CT=35 #110						
	1513	1510.2				Data Logger crashed						
	1521	1511.0				System back-up (Changed Data Gen. Terminal on D.L.)						
	1524	1511.2				Back on 20 s r.r.						
	1515					SAT Fix 40° 56.164'N 48° 38.912'W EL=83 IT=3 CT=35 #200						
	1530	1511.7	305	5.3	3206							
	1600Z	1514.4	304	5.4	3276							
	1616Z					Gun #2 back in water; Pull #1 gun to clear of Sargassum near head.						
	1623Z					4 guns online.						
	1630	1517.0	305	5.5	3223							
	1636					SAT FIX 41 00.937'N 48 46.397'W EL=16 IT=3 CT=26 #110						
	1640					C/S → 110 rpm						
	1648					C/DELAN ON AIRGUN #4 from 15 → 14 ms.						
	1700	1519.6	305	5.1	3232							
	1701					SAT FIX 41 02.309'N 48° 48.714'W EL=12 IT=3 CT=24 #200						

3750
260
3490

20 AUG 84

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP	DEL	LO	HI	SWP	DEL
233	1714					SAT FIX 41°02.958'N 48°49.842'W EI=22 IT=2 CT=27 #180	3/5	10/70	10/4	8/62	OFF	
8/20/84	1730	1522.4	306	5.0	3157							
	1745					SAT FIX 41 04.650 N 48° 52.620 N EI=32 IT=3 CT=33 #480						
	1800	1524.8	305	5.0	3113							
1822	1823	1526.7	306			c/c → 308°						
	1830	1527.2	308	4.8	3306							
	1850	1528.9	313	4.8	3415	c/c → 313°						
	1900	1529.7	313	4.8	3415							
	1900					SAT FIX 41° 08.668'N 49° 00.361'N EI=61 IT=2 CT=33 #180						
	1930	1531.8	312	4.7	3531							
	1933					SAT FIX* 41°10.599'N 49°03.690'W EI=47 IT=2 CT=36 #480						
2000	1534.3	314	4.9	3604								
	1946					c/s → 106 rpm						
2030	1536.5	313	4.5	3582		c/c → 311°						
2030						SEABEAM NOT WORKING - no depth						
2059	1538.9	312	4.5	?		SAT FIX 41°15.321'N 49°10.044'W EI=8 IT=5 CT=2 SAT=130						
	2101					c/c → 309°						
2115						SEABEAM BACK ON LINE						
	2117					c/c → 304°						
	2102					SEABEAM OPERATIONAL AGAIN						
	2130	1541.4	303	4.8	3488							
	2135					c/c → 298°						
	2139					c/s → 100 rpm						
	2120					*SAT FIX 41°17.910' 49°13.374' EI=6 IT=3 CT=20 SAT=480						
	2146					c/c → 293°						OFF
	2157	1543.6	294	4.9	3458	SB#31 Launched						10/0 5/10
	2200	1543.8	293	4.8	3457							
	2230	1546.2	293	4.7	3428							10/0 5/10
	2250					CHG. DELAY ON PROF. "C" (SOND.) → 5-15 sec.						10/5 5/10
	2256					c/f "						

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP DEL	LO HI	SWP DEL	LO HI	SWP DEL	LO HI
21 AUG 234	0941					4 GUNS NOW ON LINE	5 4.5	10/70	10 4.0	8/62	—	
	1000	1608.4	316	5.9	3740							
	1010					c/s → 110 RPM						
1015	1015	1609.8	314	5.7	3694	SB# 32 start						
	1030	1611.3	314	5.6	3683							
	1100	1614.2	315	5.8	3676							
	1112	1615.3				making 5.7 kts across the bottom						
	1130	1617.1	314	6.0	3542							
	1200	1620.1	315	6.0	3482							
	1225	1622.5	284	5.9	3418	7 c/c → 212° EHD OF NB-12; START NA-13 3 CHANGE PAPER ON PROFILE A; end SB#32 ; gun #4 down						
	1230	1623.0	210	5.1	3425							
	1249					c/c → 170°						
	1253					c/c 095°						
	1256					steady on course 095°						
	1300	1625.8	103	4.6	3470							
	1308					c/s 118 rpm c/c 103°						
	1304					c/e 108 rpm						
	1310					c/s 113 rpm						
	1322					approx. intersection with Line #12						
	1314					c/s 108 rpm						
	1328					c/a 105°						
	1323					crossing over line #12						
	1330	1628.0	105	4.7	3472							
	1338					c/s 110 rpm						
	1400	1630.3	105	4.8	3526							
	1400					#110						
	1425	1632.3				Deploy Sonobuoy #33A FSHOT = MCS 782 / TAPE 404					0/10 5/70	
	1430	1632.8	105	5.0	3487	4 Airguns - Sonobuoy #33A died						
	1433	1633.25				Deploy Sonobuoy #33 FSHOT 814 / Reel #404						

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP DEL	LO HI	SWP DEL	LO HI	SWP DEL	LO HI
234	1445					Lost Sonobuoy 33B - ran into streamer	5 4.5	10 90	10 40	8 60	10 10	5 70
21 AUG	1451	1634.6				c/c 106						
	1454	1635.0				Deploy sonobuoy #33 file 378 / 405 reel						
	1500	1635.3	106	4.9	3549							
	1517					Seabeam Edo back online - miskeying still						
	1530	1637.7	107	4.7	3562						10 10	5 70
1546	1600					SAT FIX 41° 59' 86.8"N 50° 05' 812"E EL=41 IT=3 CT=27 #110					10 10	5 70
	1600	1640.1	107	4.7	3590	C/F ON SONO. PROF. "C" TO S-30Hz @ 1559					10 10	5 70
	1609					DOPPLER SPEED LOG WAS OUT OF ORDER FOR AN UNDETERMINED LENGTH OF TIME (0-30 MIN.) BUT IT NOW FIXED - J. SMITH REPORT.						
	1630	1642.6	107	5.3	3558	SAT FIX 41° 59' 793"N 50° 05' 932"W EL=8 IT=6 CT=20 #130						
	1625					SAT FIX (1625Z)						
	1700	1645.2	106	5.3	3563	LAST SHOT SB #33						
	1704	1645.6	c/c	c/s		c/c → 104° c/s → 98 RPM						
	1705											
	1714					Increase delay on Aircraft #4 from 15 to 16 ms.						
	1728			c/s		to 90 rpm						
	1730	1647.6	104	4.3	3579							
	1721					SAT FIX 41° 59' 681"N 49° 57' 606"W EL=22 IT=3 CT=30 #480						
	1732			c/s		C/S → 85 rpm						
	1800	1649.6	104	4.0	3580							
	1817	1650.8	108	3.8		c/c → 107°						
	1830	1651.6	108	3.8	3557							
	1810					SAT FIX! 41° 59' 914"N 49° 50' 974"W EL=59 IT=2 CT=27 #130						
	1844					c/c → 105°						
	1900	1653.5	105	3.9	3536							
	1903					c/c → 100°						
	1910:48 = T80					SAT FIX 41° 59' 234"N 49° 42' 326"E EL 67° IT 3, CT 38						
	1927		c/c	c/s		c/c → 098° c/s → 84 rpm						

DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A			B			C		
							SWP	DEL	LO	HI	SWP	DEL	LO	HI	SWP
234	1930	1655.4	100	4.0	3428		5/4	10/10		10/4	8/62		OFF		
21 AUG	1934	1655.7	C/C	C/S		C/C → 095 C/S → 82 rpm									
1984	1953	1657.3			3358	C/delay Profiler "A" → 4.0 sec									
	2000	1657.3	095°	3.8	3358	C/C → 090°									
	1957	36				SAT FIX 41°58.769'N, 49°37.293'E, EL 23°, IT 3, CT 27, #130									
	2022					C/C → 085°									
	2030	1659.3	086°	4.3	3341										
	2045					C/C → 080°									
	2100	1661.3	081°	4.1	3124										
	2058					*SAT FIX 41°58.139' 49°28.454' EL 11 IT 3 CT 24									
	2105					C/C → 075°	5/4	10/10		10/4	8/62				
	2113					CHG DELAY PROF. A → 3.5S, ON PROF. B → 3.0 SEC,	5/3.5	10/10		10/3	8/62				
	2130	1663.4	075°	4.3	2930										
	2146					C/C → 072°									
	2200	1665.4	071°	4.2	2823										
	2230	1667.4	072°	4.1	2953										
	2249					Prof "B" paper tone - advanced - no time loss									
	2300	1669.4	071°	4.0	3150	C/C → 070°									
	2330	1671.4	070°	3.9	3278										
235	0000	1673.2	069°	3.3	3271	Decrease delay on auger #4 from 16 to 15 ms.									
22 AUG	0030	1674.8	070°	3.5	3243	C/C → 075°									
1984	0100	1676.7	071°	3.4	3255	C/C → 080°									
	0130	1678.3	084°	3.3	3254	C/C → 085°									
	0137	1678.7	085°	C/S	3253	C/S → 88 rpm									
	0154					End NB-13									
	0156			C/C		C/C → 094°									
	0158			C/C		C/C → 095°									
	0200	1680.2	3.6	C/C	3255	C/C → 100°									
	0202		C/S	C/C		C/C → 105°									
	0204			C/C		C/C → 110°									

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP DEL	LO HI	SWP DEL	LO HI	SWP DEL	LO HI
Z36	0458	1802.9				c/s 118 rpm	5/4.5	10/70	10/3	8/60		
Aug 23	0500	1803.0	328	4.2	3681							
	0510	1803.7				c/c 10°/min c/s 5 kts						
	0513					c/c 10°/min						
	0515	1804.2	240			c/c 240°						
	0513					SAT FIX 40° 40.383'N 47° 00.073'W EL=25 IT=3 CT=26 #480						
	0527	1805.2				c/c → 150°						
	0530	1805.4	150	5.5	3650							
	0538	1806.2				c/s 108 rpm						
	0545	1807.1				c/c → 060°						
	0557					c/c → 057° BACK ON NB-15 w/ STREAMER @ depth						
	0600	1808.2	025	5.0	3681							
	0630	1810.5	027	5.0	3744							
	0618					*SAT FIX 40° 40.612'N 47° 01.014'W EL=68 IT=13 CT=30 SAL=130						
	0653					c/c → 022°						
	0700	1813.1	021	5.1	3810							
	0701					SAT FIX 40° 43.707'N 46° 55.900'W EL=59 IT=3 CT=37 SAL=480						
	0730	1815.5	020	5.1	3887							
	0736					c/c → 020 c/s → 114 rpm.						
	0745					CHANGED DELAY ON PROFILERS TO 5 s.	5/5	10/70	10/5	8/60		
	0800	1818.0	020	5.1	3989							
	0803					SAT FIX 40° 48.558'N 46° 52.795'W EL=14 IT=4 CT=15 #130						
	0830	1820.7	020	5.3	4082							
	0838	1821.5	c/c	c/s		c/c → 023° c/s 108 110 rpm						
	0900	1821.3	023	5.1	4179							
	0905	1823.7				c/c → 026°						
	0930	1825.7	025	5.2	4262							
	0935					c/s → 100 rpm						
	1000	1828.0	025	4.5	4330							
	1022					c/c → 031°						

DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP	DEL	SWP	DEL	SWP	DEL
236	23 AUG 84	1030	1830.3	030	4.7	4405						
		1040				#1 GUN hauled out (using 3 GUNS)						
		1046				# GUN in + firing; #4 GUN coming out						
		1054				ALL GUNS FIRING						
		1100	1832.7	030	4.8	4458						
		1130	1835.0	029	4.8	4473						
		1135				Prof A - change delay to 6 sec	5/6	10/70		80/60		
		1146	1836.4			change data logger type						
		1200	1837.4	031	4.8	4475						
		1230	1839.8	029	4.5	4476						
		1300	1842.1	030	4.6	4486						
		1320				c/c 021°. End SA #38						
		1330	1844.4	020	4.7	4497						
		1340				Sea Beam down						
		1335				c/c → 016°						
		1400	1846.8	009	4.4	*3.5 4504						
		1408				SAT FIX 41° 13.34' N 46° 29.74' W	5/6	10/70	10/5	80/60		
		1420				c/c 011°						
		1430	1849.8	011	4.5	4508						
		1457	1850.9			Seabeam PDR 9 readout working						
		1500	1851.2	011	4.5	4515						
		1502	1851.4	011	4.5	4515						
		1530	1853.5	012	4.6	4520						
		1557				Deploy Sonobuoy #39A ends at 1459Z					10/6	5/70
		1600	1855.7	011	4.4	4527						
		1623				Deploy Sonobuoy #39					10/10	5/70
		1630	1858.0	010	4.6	4543						
		1631				SAT FIX 41° 26.911' N 46° 23.949' E 15 11=3 CR=12					10/5	5/70

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A SWP DEL LO HI			B SWP DEL LO HI			C SWP DEL LO HI		
237	24 AUG 84	1890.6	033	4.3	4679								10/7	5/32	OFF
	0019					SB #40 ended									
	0030	1892.7	032	4.2	4691	begin c/c 025° (end Line 15)									
	0032		c/c			c/c 020° begin 5/2 min. turn to 000° (Begin Line 16)									
	0034					c/c → 015°									
	0036					c/c → 010°									
	0038					c/c → 005°									
	0040					c/c → 000° c/s 105 rpm									
	0045					c/s → 110 rpm									
	0055					c/s → 115 rpm									
	0100	1894.9	359	4.7	4676	c/s → 120 rpm									
	0111					data logger down reel 515/shot 312									
	0123					F shot in 20 sec. cycle									
	0123					#1 gun off									
	0127					#1 gun back up - 4 guns firing									
	0118			* SAT FIX		42° 06.020'N 45° 56.212'W EL 27 IT 3 CT 30 SAT 110									
	0130	1897.5	001	4.9	4653										
	0150	1				c/c 005°									
	0200	1900.0	004	5.0	4648										
	0230	1902.1	004	5.2	4655										
	0231		CIC			CIC → 009°									
	0235			C/S		C/S → 105 rpm									
	0254		CIC			CIC → 014°									
	0252			C/S		C/S → 100 rpm									
	0258			C/S		C/S → 102 rpm									
	0300	1904.9	014	4.4	4666										
	0305					SAT FIX 42° 15.740'N 45° 55.022'W EL 52 IT 3 CT 34 SAT 110									
	0330	1907.1	014	4.4	4670	SB #41 launch stbd. side, fwd.									
	0338					SAT FIX 42° 18.614'N 45° 54.186'W EL 55 IT 13 CT 18 SAT 130									
	0400	1909.4	013	4.4	4674		5/6	10/70	10/5	8/62	DF	F			

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP	DEL/LO	HI	SWP	DEL/LO	HI
237	1300	1949.1	001	4.0	4755							
	1305					c/c → 354°						
	1314					gun # 3 11ms → 12ms delay						
	1330	1951.0	355	3.9	4755	c/c → 350°						
	1345					c/s 105 rpm						
	1358	1953.0				c/c → 345°						
	1400	1953.1	345	4.4	4753	Maggie plotter down for maintenance	5/6.0	0/10	10/5.0	8/60		
	1421	1954.7				c/c → 340° c/s 118 rpm						
	1411					* SAT FIX 43° 09.982'N 45° 30.740'W EL54/IT2/CT32/ SAT 200						
	1430	1955.3	340	4.8	4746							
	1431					CHANGE DELAY ON AIRGUN #4 FROM 14 → 13 ms.						
	1448	1956.8				c/s 115 rpm						
	1500	1957.9	340	5.0	4728							
	1514	1959.1				c/s 112 rpm						
	1516	1959.2				Maggie recorder back on						
	1506					Sat Fix 43° 13.990'N 45° 32.132'W EL49/IT3/CT34 #110						
	1520	1959.5				c/c → 345						
	1530	1960.3	345	4.8	4667							
	1543	1961.4				c/c → 350°						
	1556					SHIP PASSING THRU ENDPOINT LINE NB 16 {43° 18.0'N / 45° 32.7'W}						
	1600	1962.8	350	4.8	4666							
	1557					Sat Fix 43° 17.303'N 45° 32.757'W EL24 IT2 ZZ 200						
	1611	1963.2		4.5		c/s 120 rpm						
	1630	1965.4	c/c	4.5	4648	Commence turn to NB-17, down to 2 guns c/c → 029						
	1631					#1, 4 guns offline for turn						
	1633		c/c			c/c → 030						
	1636			c/s		c/s → dead slow to adjust						
	1638			c/s		c/s → resume 5.0 kts						
	1642		c/c	5.3		c/c → 074°						
	1645		c/c			c/c → 099						

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP	DEL/LO	HI	SWP	DEL/LO	HI
238	1005					c/c → 300°						
	1030	2062.0	300	5.5	4134							
	1035					c/s → 100 RPM						
	1100	2064.4	299	4.5	4189							
	1130	2066.8	299	4.8	4070							
	1135					c/s → 98 RPM						
	1200	2069.1	299	4.8	4022							
	1205					c/c → 295°						
	1225					c/c 290°						
	1230	2071.4	289	4.5	3981							
	1235											
	1246					c/c 285°						
	1300	2073.8	284	4.5	3958							
	1310					SB# 46 deployed reel: 580 shot 784						
	1322					(SAT FIX) 43° 36.685' N 47° 22.613' W						
	1304					(SAT FIX) 43° 37.896' N 47° 25.971' W	5/5	10/70	10/5	8/62	10/6	5/70
	1330	2076.1	279	4.8	3932							5/70
	1400	2078.5	279	4.8	3914							
	1403					c/c → 5/30 5 SEC. DELAY ON SONO. PROFILER C						
	1418											10/5 5/30
	1430	2080.9	279	4.8	3877							
	1447					SAT FIX 43° 40.435N 47 33.941W EL=71 IT=3 CF=35						
	1500	2083.2	278	4.6	3863							10/5 5/30
	1505	2083.6				2 Airguns - Compressor problems - guns 1 & 4 off						
	1520	2085.5	278	4.2	3870	4 guns						
	1532					4 Airguns back on						10/5 5/30
	1544					7 sec. delay on Sono. Profiler C						10/7 5/30
	1547					C/F → 5-20 Hz on " " "						10/7 5/20
	1600	2087.6	278	4.4	3876							
	1604					SAT FIX 43° 44.879' 47° 42.651' E1=20 IT=3 CF=26						#10
	1615		c/c	c/s		c/c → 275° c/s → 120 rpm END SB#46						

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP	DEL/LO HI	SWP	DEL/LO HI	SWP	DEL/LO HI
238	2117					c/c → 283° c/s → 116rpm	5/4.5	10/20	10/4	2/62	OFF	
	2123					CHANGED DELAY ON PROFILER A,	5/4.0					
	2130	2118.0	282	5.7	3335							
	2145					Air gun alarm - turned off control box - got martin						
	2150					3 guns working - Gun # 3 off - air leak in hose						
	2200	2120.8	283	5.8	3272						OFF	
	2204	2121.2	282	5.4	3273	SB #47 start					10/0 5/10	
	2227					CHG. DELAY ON AIRGUN #1: 12 → 11ms; ON AIRGUN #2: 12-13ms.						
	2230	2123.4	282	5.9	3249							
	2300	2126.5	283	5.5	3147						10/0	
	2306					CHG. DELAY ON SONO PROFILER "C" TO 7 SEC.					10/7 5/10	
	2311					CHG. FILTER " " TO 5-30 HZ					10/7 5/30	
	2330	2129.2	282	5.5	3110	half-hour event display has stopped						
	2335					"half hour event" display stopped						
	2338					4 guns firing						
	2340					"time" now comes from chronolog plot					10/7 5/30	
	2354					C/F PROF. C → 5-20Hz					10/7 5/20	
239 26 AUG	0000	2131.9	283	5.5	2935		5/3.5	10/3				
	0018					changed delay Profilers A + B						
	0025					" " " " A	5/3.0					
	0030	2134.6	283	5.4	2608						10/7 5/20	
	0029	2134.5				end SB # 47 ended reel: 600 shots: 711					OFF	
	0055					c/s 120 rpm						
	0054					the 30 min event alarm/mark went off (spurious)						
	0057					Increase delay on Gun # 3 from 11 → 12ms,						
	0100	2137.1	283	5.2	2351		5/3.0	10/3				
	0111					change delay Profiler A → 2.5 sec, Profiler B → 2.0 sec,	5/2.5	10/2				
	0130	2139.8	283	5.0	2119							
	0135					c/s 116rpm						
	0126					SAT FIX 43° 50.15' N 48° 49.11' W						

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP	DEL	LO	HI	SWP	DEL
239	0143					CHG. DELAY PROFILER A FROM 2.5 → 2.0 SEC.	5/2.0	10/70	10/2	8/62	OFF	
	0200	2142.2	281	4.7	1748							
	0147					SAT FIX 43° 50.390 N 48 51.747' E:29 IT=3 CT=24 #205						
	0216					PRO A + B 1 SEC DELAY	5/1.0		10/1.0			
	0224			C/S		C/S → 120						
	0230	2144.7	283	5.4	872							
	0239					C/D on "A" + "B" To 0.0 SEC.	5/0.0	10/70	10/0.0			
	0300	2147.4	283	5.0	419							
	0313					SAT FIX 43.52.045 49 02.155' E:49 IT=3 CT=33 #110						
	0326			C/S		C/S → 130 rpm						
	0328		C/C			C/C → 304						
	0331		C/C			C/C → 322						
	0330	2148.6	304	5.2	256							
	0330			C/S		C/S → 100 rpm						
	0331		C/C			C/C → 342						
	0334			C/S		C/S → 110 rpm						
	0335		C/C	C/S		C/C → 062 C/S → 124 rpm						
	0336			C/S		C/S → 104 rpm						
	0337		C/C			C/C → 022						
	0339		C/C	C/S		C/C → 042 C/S → 114 rpm						
	0341		C/C			C/C → 060						
	0342			C/S		C/S → 108 rpm						
	0339					SAT FIX 43° 52.718' N 49° 04.325' W 40=E1 3=IT 28=CT #200						
	0345			C/S		C/S → 116 rpm						
	0349			C/S		C/S → 112 rpm						
	0350		C/C			C/C → 080° C/F profiler A → 20/70 (rotation max)	5/0.0	20/70				
	0351			C/S		C/S → 120 rpm						
	0354					C/F						
	0400	2152.6	080	5.8	307	profiler A → 12-70 Hz	5/0.0	12/70				
	0403		C/C	C/S		C/C → 118°						

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C				
							SWP	DEL	LO	HI	SWP	DEL	LO	HI	SWP
	0207		C/C			C/C → 138	5/0		12/70	10/6		8/62		OFF	
	0209		C/C			C/C → 157									
	0212					C/F Profiler A 10-70 Hz			10/70						
	0214					C/C → 162°									
	0215			C/S		C/S → 128									
	0407					SAT FIX 43° 53.938' N 49 01.788 W EL=9 IT=7 CT=22 #100									
	0430	2155.8	162.3	5.0	390										
	0439	2156.9				C/S → 134 rpm									
	0445					C/C → 157° C/S → 136 rpm									
	0506	2157.6	158	5.3	488										
	0458					Sat Fix 43° 49.730 N 48° 59.555 W EL=7 IT=7 CT=20 #110									
	0504	2159.5				C/S 132 rpm									
	0530	2160.3	158	4.9	773	Changed delay									
	0539					Changed delays on Profilers A & B	5/1.0		10/70	10/1.0		8/62		OFF	
	0533					Sat Fix 43° 46.853 N 48 57.868 W EL=48 IT=2 CT=33 130									
	0600	2162.8	158	5.0	1069										
	0554					*SAT FIX 43° 45.157 N 48 56.730 W EL=54, IT=3, CT=37, SAT=480									
	0623					C/C → 162									
	0630	2165.2	162	4.9	1345	SEABEAM DEPTH CHART BEING REPAIRED=OFF									
	0700	2167.9	160	5.5	2066	CHANGE DELAY TO 2 SEC. (FROM 1S.) ON PR. A	5/2		10/70	10/2		8/62			
	0704					C/S → 130 rpm									
	0718					UPR SEABEAM BACK & BETTER THAN EVER									
	0730	2170.5	161	5.3	1804	(0720) *SAT FIX 43° 38.190 N 48° 52.575 W EL=30 IT=3 CT=30 SAT=130									
	0735					C/C → 167 C/S → 124 rpm									
	0743					SAT FIX 43° 36.266 N 48° 51.261 W EL=29 IT=3 CT=33 SAT=180									
	0800	2172.9	161	3.4	2113										
	0815	2174.2	C/C			C/C → 162°									
	0830	2175.4	163	5.4	2535										
	0835					Change delays on "A" and "B" to 3.0 sec	5/3.0			10/3.0					
	0858		163	4.9		Change delays on "A" and "B" to 2.0 sec	5/2.0			10/2.0					

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP DEL	LO HI	SWP DEL	LO HI	SWP DEL	LO HI
239	1543					C/C → 116						
26 AUG	1549	2213.5				Sat Fix 43° 10.373'N 48° 05.823'W EL=7 IT=10 CT=20 #130	(N1)	5/3.5	10/30	10/3.0	8/62	—
	1600	2213.5	115	5.0	3215							
	1620					C/C → 119						
	1627					C/C → 124						
	1630	2216.0	124	5.2	3240							
	1700	2218.5	125	5.2	3293							
	1649					NI SAT FIX 43° 10.373'N 48° 05.823'W EL=7 IT=10 CT=20 #130						
	1719					CHG. DELAY PROFILER A TO 4.0 SEC		5/4.0	10/40			
	1711					LAUNCH SONOBUOY #49						10/0 5/70
	1730	2221.0	124	5.9	3362			5/4.0	10/70			
	1753					CHANGE DELAY ON PROFILER A TO 4.5 SEC		5/4.5	10/70			
	1800	2223.6	124	5.9	3412							10/0 5/70
	1813					CHANGE DELAY ON PROFILER C TO 6.0 SEC						10/6 5/70
	1819					" FILTER " " " TO 5-30 Hz						10/6 5/30
	1734					SAT FIX 43° 06.480'N 47° 55.966'W EL=52 IT=2 CT=33 #130						
	1830	2226.2	123	5.0	3462							
	1900	2228.7	124	5.0	3508							
	1905112					SAT FIX 43° 02.573'N, 47° 47.228'W, EL 48, IT 3, CT 36 #480						5/30
	1917					C/F SONO PROF "C" → 5-20 Hz						5/20
	1930	2231.2	124	5.1	3549							
	1921					SAT FIX 43° 01.842'N 47° 45.863'W EL=5 CT=24, EL=27 #130						
	1938					END SONA #49						OFF
	1940		C/C			C/C → 121°						
	2000	2233.7	121	4.9	3595							
	2005					C/C → 117°						
	2026					C/C → 114°						
	2030	2236.1	114	4.9	3624							
	2100	2238.5	113	4.9	3646							
	2050					* SAT FIX 42.57.690 N 47.36.802 W EL=6 IT=3 CT=21 SAT=480						

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A				B				C			
							SWP	DEL	LO	HI	SWP	DEL	LO	HI	SWP	DEL	LO	HI
26 Aug	2124	224.45				c/c → 117°	5	4.5	10	70	10	3.0	8	62	OFF			
	2136	224.09	116	4.9	3671													
	2200	2243.4	116	4.8	3704													
	2230	2245.8	116	4.8	3739													
	2300	2248.2	116	4.7	3774		5/4.5											
	2311					CHG. DELAY ON PROFILER "A" TO 5.0 SEC.	5/5.0											
240 27 Aug	2330	2250.6	117	4.6	3810													
	0000	2252.9	118	4.4	3843													
	0030	2255.2	117	4.5	3863													
	0036					SAT FIX 42° 47.77' N 47° 17.58' W												
	0050					c/c 112°												
	0100	2257.6	112	4.7	3879													
	0105					c/s 100 rpm												
	0110					c/c → 107 → 105 rpm												
	0122					SB #50 deployed (i.e. thrown over the side with great élan)									OFF	10/0	5/70	
	0130	2260.0	106	5.3	3863													
	0200	2262.4	106	4.9	3855													
	0230	2264.1	105	4.9	3860													
	0300	2267.3	107	5.0	3903													
	0330	2269.6	106	4.8	3942													
	0400	2272.1	107	5.0	3984													
	0409					Sat Fix 42° 42.587' N 46° 59.188' W EL=16 IT=4 CT=16 #200												
	0430	2274.6	106	4.9	4029	SB #50 End												
	0432	22				c/s → 120 rpm												
	0454	2276.8				c/c → 117												
	0443					Sat Fix 42° 41.830' N 46° 55.486' E EL=25 IT=2 CT=30 #130												
	0500	2277.4	117	5.7	4079	c/s → 114 rpm												
	0530	2280.1	117	5.5	4137													
	0531					Sat Fix 42° 40.102' N 46° 50.669' E EL=45 IT=3 CT=35 #480												
	0600	2282.9	115	5.4	4226	CHANGE DELAY ON PROFILER B TO 5 SEC					10/5							

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP	DEL/LO	HI	SWP	DEL/LO	HI
28 AUG 74	0317		C/C	C/S		C/C → 293° + C/S → 112 RPM	5/5.5	1/70	10/5	9/62	OFF	
	0330	2400.0	293	4.8	4623							
	0322					SAT FIX 41° 48.282' N 46° 10.252' E 130 IT ₂ CT ₁₄ #110						
	0335		292	108		C/C → 292 C/S → 108 rpm						
	0356			108		C/S → 112						
	0400	2402.4	291	4.9	4616							
	0353					SAT FIX 41 49.807' N 46° 13.154' E 11 IT ₆ CT ₂₄ #130						
	0405					Deploy sonobuoy # 53 MCS = tape 696 #042						10/0 5/70
	0430	2404.8	292	4.5	4609							
	0445					Sat Fix 41° 52.314 N 46° 18.184 W EL=5 IT=4 CT=15 #200	no update					10/50 5/70
	0500	2407.3	291	4.6	4603							
	0508					Sat Fix 41° 53.587 N 46° 20.404 EL=34 IT=3 CT=34 #480						
	0530	2409.7	292	4.9	4591	C/S 0518Z → 5/20 Hz						5/30
	0541					SAT FIX 41° 55.356 N 46° 23.134 W EL=73 IT=2 CT=34 #130						
	0600	2412.0	292	4.9	4585							
	0630	2414.6	291	5.1	4592							
	0700	2417.0	291	4.8	4583	C/C → 282° END SB # 53						
	0657					SAT FIX 41 59.328 N, 46 30.503, EL 45, IT 3, CT 37, SAT 470						
	0725					C/C → 284°						
	0730	2419.5	284	5.0	4576							
	0726					SAT FIX 4200.671' N 46.33.344' W EL=19 IT=4 CT=25 SAT=130						
	0800	2422.0	284	5.3	4568							
	0830	2424.6	283	5.3	4549							
	0845					SB # 54 launched						
	0900	2427.2	284	5.0	4534							
	0845					SAT FIX 42° 03.990' N 46° 41.489' W EL 4 IT ₆ CT ₂₀ #480						
	0930	2429.7	284	5.2	4514							
	1000	2432.3	284	5.1	4486							
	1007					Change logger tapes #229 → #230						
	1030	2434.8	283	6.4	4449							

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP	DEL/LO	HI	SWP	DEL/LO	HI
241	28 AUG 84	1040				GUN #1 PULLED OUT						
		1047				GUN #1 ON						
		1100	2437.5	283	5.4	4417						
		1130	2440.1	284	5.3	4385						
		1135				END SB #54						
		1155				C/C → 290°						
		1200	2442.8	296	5.0	4355						
		1215				C/C 300°						
		1230	2445.5	300	5.1	4335						
		1235				C/C 305°						
		1255				C/C 310°						
		1300	2447.6	311	5.2	4252						
		1307				SAT FIX 42° 13.788' N 47° 09.712' W						
		1330	2450.5	302	5.3	4222						
		1336				SAT FIX 42° 15.357' N 47° 12.511' W						
		1355	2452.7			CLS → 96 rpm	5/55	10/70	10/50	8/62		
		1400	2453.0	310	4.9	4190						
		1430	2455.2	312	4.5	4147	5/45					
		1453				CLDELAY → 4.5s on Profiler A						
		1500	2457.5	311°	4.6	4063						
		1452				Sat Fix 42° 19.047 N 47° 21.016 W EL=65 IT=3 CT=33 #200						
		1507	2458.0			CLS → 88 rpm						
		1512				CHG. DELAY ON AIRGUNS 3 & 4 FROM 12 → 11 ms						
		1530	2459.6	311°	4.2	3979						
		1523				Sat Fix 42° 20.469 N 47° 23.987 W EL=31 IT=3 CT=31 #10						
		1600	2461.6	311°	4.1	3969						
		1555				Sat Fix 42° 21.860 N 47° 27.034 EL=10 IT=4 CT=22 #130						
		1618				Styluses on Profiler B sticking/not printing - cleaned						
		1630	2463.7	310	4.1	3939						
		1630				SAT FIX 42 23.700 N 47 30.147 EL=10 IT=3 CT=27 #48						

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP	DEL/LO	HI	SWP	DEL/LO	HI
242	1236					Logger tape change #231 → #232						
	1245					c/c → 040°						
	1247					stop ship to adjust streamer bw						
	1253					guns #1 + #4 back on						
	1254					Jamie said please						
	1256					" " thank-you						
	1257					c/c 076°						
	1248					<u>SATFIX</u> 43°17.487' N 49°24.680' W el: 18 it: 3 ct: 25 #110						
	1250					steady turn to c/c → 165						
	1300	2558.3	092	5.4	1061							
	1305					steady on course c/s 110rpm						
	1330	2560.2	166	5.0	468							
	1340					c/c → 170°						
	1351					change filter ^{delay} Profiler A to 1s	5/10	10/30				
	1344					Sat Fix 43°14.242N 49°22.022W EL=35 IT=3 CT=29 #200						
	1400	2563.1	168	4.7	873		5/10	10/30	10/0	8/62		
	1412	2564.6				c/c → 173°						
	1430	2565.4	174	4.7	1095							
	1434					Sat Fix 43°09.895N 49°21.526W EL=77 IT=3 CT=35 #110						
	1500	2567.8	173	4.6	1443							
	1530	2570.3	174	4.7	939							
	1529					Sat Fix 43°06.143N 49°20.359W EL=36 IT=3 CT=3 #200						
	1545					c/s → 100 rpm						
	1600	2572.5	174	4.4	1180							
	1608	2573.2				c/s → 108 rpm						
	1606					Sat Fix 43°02.037N 49°19.511W EL=11 IT=7 CT=24 #480						
	1625		c/c			c/c → 176°						
	1630	2574.8	177	4.6	1286							
	1653			c/s		c/s → 090 rpm close encounter of the Nautilus						
	1640					Maggie chart recorder down for repairs						

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP	DEL/LO	HI	SWP	DEL/LO	HI
243	0648					Maggie chart recorder off. Being repaired.	5/40	10/70	10/40	8/62		
	0628					c/c → 124°						
	0630	2642.5	124	5.2	3384							
	0655					c/c → 129°						
	0700	2644.8	129	4.3	3414							
	0723		129			c/c → 133°						
	0730	2647.0	133	4.5	3452							
	0745					A DELAY ON PROFILER A → 4.5s.	5/45					
	0733					* SAT FIX 42°05.259'N 48°27.537'W EL 17 IT=3 CT=25 SAT=130						
	0800	2649.3	132	4.5	3505	SB # 59 THROWN						
	0801					SAT FIX 42°03.737'N 48°24.694'W EL 16 IT 3 CT 27 #480						
	0815					SONOBUOY # 59 launched						
	0830	2651.5	133	4.4	3541							
	0900	2653.65	133	4.4	3587							
	0930	2655.8	133	4.2	3635							
	1000	2657.9	132	4.2	3674							
	1030	2660.0	133	4.3	3709							
	1100	2662.2	132	4.2	3748							
	1115	2663.3			3774	END SB# 59 ; c/c → 128°						
	1120	2664.0				c/s → 90 RPM						
	1130	2664.4	125	4.1	3798							
	1140					c/c → 123°						
	1200	2666.5	123	4.1	3841							
	1215					c/c → 118°						
	1230	2668.6	119	4.3	3881							
	1245					c/c 113°						
	1300	2670.6	112.8	4.3	3925							
	1330	2672.8	112	4.4	3964	c/c → 108°						
	1354					c/s → 100 rpm						
	1344					Sat Fix 41°43.931N 47°50.289W EL=55 IT=3 CT=33						

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP	DEL	LO	HI	SWP	DEL
243	2000	2701.5	128	4.4	4350		5/4.5	10/20	10/4.0	5/62	-	-
30 AUG	2002		c/c			END LINE NB-23 BEGIN LINE NB-24 c/c → 020°						
1984	2007					steady on cse 020° Airgun #1 pulled for seaweed removal						
	2008		c/s			c/s → 102 rpm						
	2015					gun #1 on / gun #2 off for seaweed removal						
	2030	2703.8	020	4.5	4387	FOUND BROKEN O-RING SEAL IN AIRGUN #2						
	2035					ENTERING NEW SOUND VELOCITY - SEABEAM OFF						
	2045					SEABEAM ON - AIRGUN 2 UNDER REPAIR						
	2100	2706.4	019	4.6	4390							
	2103					c/c → 015 c/s 98 rpm						
	2130	2708.2	015	4.3	4378							
	2134					c/c → 020						
	2200	2710.3	020	4.4	4367							
	2230	2712.5	020	4.4	4361	4 GUNS! ALL ON						
31 AUG	2300	2714.7	021	4.5	4374							
	2312					change delay Pref "A" → 5.0	5/6.0					
	2330	2716.9	020	4.4	4394							
31 Aug	0000	2719.1	020	4.4	4401							
	0025					Begin turn to 290° (NB-25) c/s → 120 rpm						
	0030	2721.3	293	5.6	4424	→ START NB-25 ←						
	0053	2724.1	290	5.3	4406	4 guns firing						
	0100	2724.1	290	5.3	4406							
	0054					*SATFIX 41°49.585'N, 46°51.579'W EL27/IT3/CT30/#110						
	0130	2726.8	289	5.3	4394							
	0200	2729.5	289	5.6	4374							
	0219			c/s		c/s → 118						
	0224					FSHOT SB#61 SHOT 676 TAPE 821						
	0229					SB#61A caught in streamer						
	0230	2732.4	290	5.8	4378							
	0245					SB 61 FSHOT 738 TAPE 831						

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A			B			C		
							SWP	DEL	LO	SWP	DEL	LO	SWP	DEL	LO
244	0241					2D SAT FIX 41 54.173N 47 00.236 E1 52 IT 3 CT 33 #110	5/5	10/70		10/4	6/62		10/6	5/70	
	0300	2735.3	290	5.7	4338										
	0305					Sat Fix 41° 55.263N 47° 02.361W EL=39 IT=3 CT=28 #200									
	0330	2738.2	289	5.8	4306										
	0336					C/DELAY PROF "C" SB #61							10/6	5/70	
	0348					change filter to 0-40 Hz							10/6	5/40	
	0400	2741.0	289	5.7	4295										
	0400					Sat 41° 57.363N 47° 08.055W EL=12 IT=4 CT=25 #480									
	0430	2743.8	289	5.5	4270										
	0426					Sat Fix 41° 58.088N 47° 10.468W EL=7 IT=6 CT=19 #110 (N)									
	0445					C/Filter to 5/30 Hz								5/30	
	0500	2746.7	290	5.7	4238										
	0457					Sat Fix 41° 59.213N 47° 14.266W EL=41 IT=3 CT=28 #120									
	0530	2749.5	290	5.7	4201	End SB #61									
	0532		C/C			C/C → 295°									
	0534					DATA LOGGER CRASH									
	0541					SYSTEM BACK UP									
	0552		C/C			C/C → 300°									
	0600	2752.4	300	5.7	4171										
	0612					C/C → 305°									
	0630	2755.25	305	5.8	4082										
	0634		C/C	4/5		C/C → 310° C/S → 112 rpm									
	0648			C/S		C/S → 109 rpm									
	0643					SAT FIX 42° 03.547'N 47° 25.475'W EL 34 IT 3 CT 25 #130									
	0700	2758.0	310	5.4	4046										
	0713					C/C → 313°									
	0730	2760.6	313	5.3	4008	SB #62A launched							10/6	5/70	
	0735					SB #62A lost									
	0740	2761.5	313	5.3	3998	SB #62 launched							10/6.0	5/70	
	0738					SAT FIX 42° 06.395'N 47° 30.732'W EL 21 IT 3 CT 29 #480									

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP DEL	LO HI	SWP DEL	LO HI	SWP DEL	LO HI
31 AUG 89	1607	2806.6	024	5.5	3611	CK AIRGUN TRACES / STREAMER DEPTH/TOWS. BIT SHALLOW.	5/4.5	10/10	10/4.0	8/62	10/6.5	5/20
	1630	2808.6	024	5.5	3609	END SONOBUOY # 63						OFF
	1630	2808.6	c/c	4/5	3609	C/C → 018 C/S → 106 rpm						
	1630					Sat Fix (NI) 42 45.01N 47 47.597W EL=3 IT=3 CT=21 #110						
	1648	2810.2	c/c			c/c 020°						
	1700	2811.4	020	5.0	3654							
	1658					Sat Fix 42 47.391N 47 46.694W EL=39 IT=2 CT=32 #130						OFF
	1703	2811.45				Deploy SB #64 (FIRST 9 SHOTS ON 6.5 SEC DELAY).					10/6	5/30
	-					NOTE: ANTI-ALIAS FILTER FOR SB ON DATA LOGGER NOW 250 Hz						
	1730	2813.7	021	5.0	3727							
	1800	2816.2	021	5.1	3709							
	1805					Changed delay to 6.05 - ship to cross between SB's					10/6	5/30
	1810					# PROFILER "c" TO 5-50 Hz						5/30
	1819					C/F " " 5-30 Hz						5/30
	1830	2818.7	020	5.1	3697							
	1844					SAT FIX 42°56.163'N 47°42.797'W EL° 35 IT 3 CT 32 #130						
	1900	2821.3	020	5.1	3628							
	1930	2823.7	020	4.8	3594						10/6	5/30
	1932					END SONOBUOY #64						OFF
	1934		c/c			C/C → 015						
	2000	2826.2	015	4.9	3547							
	2016					SEA BEAM SHUT OFF TO FIX SCREEN						
	2030	2828.6	014	4.8	~3525							
	2032				← 3525	c/c → 010°						
	2053					AIRGUN #1 IS OFF						
	2059					AIRGUN #1 IS ON; #3 OFF						
	2100	2831.0	009	4.8	3494	C/C 008, SB READOUT BACK ON						
	2109					AIRGUNS: 1, 2, 3 ON, 4 OFF						
	2130	2833.3	008	4.8	3530	All AIRGUNS WORKING!!						
	2200	2835.8	007	4.9	3570							

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A				B				C			
							SWP	DEL	LO	HI	SWP	DEL	LO	HI	SWP	DEL	LO	HI
Spt 04 245	1750	2936.9	C/C			C/C → 265 ²⁶⁵ 265°	5/50		10/70	10/4.0		8/62			OFF			
	1800	2936.9	265	4.9	3785													
	1755					SAT FIX 44° 37.647'N 47° 26.509'W ^{EL} 34 ^{IT} 3 ^{CT} 35 #130												
	1805					4 AIRGUNS ON LINE.	5/5											
	1813					CHANGE DELAY ON PROF. A FROM 5.0 → 4.5S	5/4.5	10/70	10/4.0	8/62				OFF				
	1817		C/C			C/C → 262°												
	1830	2939.3	262	4.9	3702													
	1827					Buzzer sounded; but no event												
	1836					SAT FIX 44° 37.487'N 47° 31.355'W ^{EL} 51 ^{IT} 3 ^{CT} 36 #480												
	1850			C/S		C/S → 106 rpm												
	1900	2941.75	261	5.0	3660													
	1924	2943.7	A/C	5.0		A/C → 259°												
	1930	2944.3	259	5.2	3617													
	1940					SEABEAM DOWN												
	1943					SEABEAM UP												
	1946					C/C → 257° C/S → 110 rpm SEABEAM DOWN												
	1942				SAT FIX	44° 37.313'N 47° 37.929'W ^{EL} 12 ^{IT} 3 ^{CT} 24 #130												
	2000	2946.9	257	5.3	—													
	2012	2948.0				C/C → 254°												
	2030	2949.5	253	5.3	3530													
	2024					SAT FIX 44° 37.137'N 47° 42.948'W ^{EL} 9 ^{IT} 5 ^{CT} 23 SAT 482 (ND)												
	2050					CHANGE DELAY ON AIRGUN #3 FROM 10 → 11 ms.												
	2100	2952.2	253	5.3	3475													
	2107					C/S 115 rpm												
	2130	2955.1	254	5.6	3470													
	2146					change delay on airgun #4 from 11 to 13ms,												
	2200	2957.8	254	5.7	3488													
	2230	2960.6	254	5.8	3513													
	2300	2963.4	253	5.5	3465	Depths from SEABEAM												
	2322					C/C → 205°												

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A			B			C		
							SWP	DEL	LO	SWP	DEL	LO	SWP	DEL	LO
246	1230	302					5	4.0	10	10	4.0	8	10	5	70
	1230	3028.9	237	4.8	2961	change delays	5	3.5	70	10	3.0	62	10	5	70
	1241					SAT FIX 44°49.925'N 48°05.521'W et -17 it -3 et -23 #200									
	1300	3031.4	237	4.9	2943	1305 SAT FIX 44°48.975'N, 48°07.402'W EL35/IT3/CT32 #110									
	1330	3033.9	236	5.1	2944										
	1400	3036.4	237	4.9	2980										
	1409	3037.2		cls		cls 130 rpm									
	1430	3038.9	237	4.9	3047										
	14252		242			Sat Fix 44°46.356 48°14.7 EL78 IT3 CT32 #202									
	15002	3041.4	237	4.9	3133	End conductivity #68 MCS tape #928 GLE 553									
	1503		cls	c/c		cls → 242 cls 132 rpm									
	14512					Sat Fix 44°44.18N 48°16.572W EL42 IT3 CT32 #110									
	1530	3044.0	243	5.3	2909										
	1539			cls		cls → 145 rpm									
	1540					change delay to 30 ms Profiler A	5	3.0							
	1541			cls		cls → 136 rpm									
	1545					Profiler A - paper advance hung up ~ 7 min time loss									
	1600	3046.6	244	cls	2644	cls 140 rpm									
	1613					Adjust paper on Profiler B - No time loss									
	1611					2DSAT FIX 44°40.693 N 48°24.470' EL12 IT4 CT22 #200									
	1630	3049.4	241	5.4	2497										
	1640					SAT FIX 44°39.478 48°27.735 EL5 IT7 CT14 #110									
	1700	3052.2	242	5.5	2733										
	1705					2DSAT FIX 44°38.188 N 48°30.504 EL50 IT3 CT33 #130									
	1722		CIC			CIC → 177 END NB-28, TURN TO NB-29									
	1723					LAUN #1 & 4 offline for turn PROFILER B OFF FOR CLUTCH ADJ.									
	1724			cls		cls → 110 rpm									
	1726					C/F Profiler A	25	4.0	12.5	110					
	1727			cls		cls → 120 rpm									
	1728					C/F Profiler A	5	110	110						

OFF FOR
ADJUSTMENT

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A			B			C					
							SWP	DEL	LO	HI	SWP	DEL	LO	HI	SWP	DEL	LO	HI
247	1030	3143.4	213	5.3	3102	HB-31 GUN #1 in water + firing; pulling #2 (2000s on)	5	35	10	10	10	30	8	62				
	1100	3146.1	213	5.3	3041													
	1110	3147.0			3055	C/C → 210°												
	1130	3148.8	210	5.3	3027													
	1149					GUN #2 FIRING (3 GUNS); 1, 2, 4 in water												
	1200	3151.6	210	5.6	2895													
	1216					SATFIX 43°12.097'N 48°21.790'W el-16 it-3 ct-25 #120												
	1230	3154.4	210	5.7	2827													
	1300	3157.4	210	5.3	2792													
	1316					SATFIX 43°08.144'N 48°24.742'W el-32 it-3 ct-28 #200												
	1330	3160.0	210	5.6	2798													
	1336					GUN 3 ON c/s → 130rpm												
	1400	3162.9	210	6.1	2916													
	1430	3165.5	210	5.8	2788													
	1402					(VI) SATFIX 43°05.228'N 48°25.922'W EL/85 IT/3 CT/35 #110												
	1500	3168.6	197°	5.6	2758	CLC → 197°												
	1505					ABOUT 17 SHOTS LOST DUE TO TPX-1 FAILURE - PROFILERS												
						A & B HAVE PARTIAL RECORD DUE TO SPORADIC CYCLING.												
	1502					Sat Fix 43°01.074'N 48°30.055'W EL/38 IT/2 CT/30 #200												OFF
	1520	3170.6				Deploy SB #71 MCS Tape 972 shot 920											10/6	5/10
	1530	3171.5	197°	5.7	2773													
	1549					42°57.118'N 48°31.592'W EL14/IT4/CT25 #110												
	1600	3174.5	197°	6.0	2805													
	1609					C/DELAY SONOBUOY #71 to 6 sec.											10/6	5/10
	1614					20 SATFIX 42°54.757'N 48°32.064'W 23 IT 3 CT 26 #130 - C/F PROF. C →										10/6	5/30	
	1630	3177.4	198	5.6	2868													
	1655					GUN #2 FIRING INTERMITTENTLY - FIRING LINE BAD												
	1700	3180.3	199	5.8	2885													
	1705					#2 GUN PULLED FOR REPAIR												

9/3/54 jday = 247

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A				B				C			
							SWP	DEL	LO	HI	SWP	DEL	LO	HI	SWP	DEL	LO	HI
247	1730	3183.1	198	5.8	2953		5/35		10/70		10/30		8/62		10/6		5/30	
	1750					END SONOBUOY #71											OFF	
	1800	3186.0	199	5.8	3001													
	1801					SAT FIX 42° 45.820'N 48° 35.219'W EL' 17 CT' 19 #130												
	1830	3198.8	199	5.5	3041	ALL 4 AIRGUNS UP												
	1833	318	c/c			c/c → 1950 c/ trigger delay #4 12 → 11												
	1900	3191.7	195	5.7	3068													
	1908			4.5		c/s → 126 rpm 1909 - Airgun low pressure alarm												
	1930	3194.3	196	5.5	3169	1908 - Airgun #2 pulled - broken hose												
	2000	3197.0	196	5.7	3110													
	1939					SAT FIX 42° 37.516'N 48° 37.636'W 17 3 27 #480											OFF	
	2013	3198.25	198	6.0	3121	SB#72 Launch (lunch?) (lurch??)										10/6		5/70
	2030	3199.0	195	5.7	3152													
	2100	3202.6	195	5.4	3180											10/6		5/70
	2111					CHG. DELAY SONO. #72 → 6.0 SEC (PROF. C)										10/6		5/70
	2120	3205.4	196	5.1	3178	GUN BACK IN WATER IN 10 MINUTES										10/6		5/70
	2132					C/F PROFILER C (SONO. 72) → 5-30 HZ										10/6		5/30
	2134					GUN #2 BACK IN H ₂ O, ALL 4 GUNS GO												
	2200	3208.1	195	5.3	3194													
	2227					Change Delay Prof "A" → 4.0; CHG. DELAY PROF C → 7.0	5/4.0									10/7		5/30
	2230	3210.8	197	5.3	3222													
	2236	3211.4	195	5.1	3218	END SB #72												
	2245					c/s → 122 RPM												
	2300	3213.5	194	5.5	3214	ADJUST PAPER Prof "B" - 2 shots lost; CLEAN PAPER ON "B"											OFF	
	2327	3215.9	194	5.5	3227	START SB #73										10/6		5/70
	2330	3216.2	195	5.5	3235													
	2350	3218.0			3268	GUN #2 OFF - brought in for repair - APPARENT												
248	0000	3219.0	194	5.9	3242	PULL-UP IN PROFILER RECORDS DUE TO LOW AIR PRESS.												
	0014	→ not good				SAT FIX 42° 13.868'N 48° 45.376'W el-9 it-4 ct-21 #250												
	0030	3221.9	195	6.2	3240											10/6		5/70
	0022					CHG. DELAY PROFILER "C" TO 6.0 SEC.												

10/6 5/70

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TRANSIT TO BERMUDA
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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A				B				C			
							SWP	DEL	LO	HI	SWP	DEL	LO	HI	SWP	DEL	LO	HI
250 6 Sept.	0112					SAT. Fix = 38°14.828'N, 54°32.117'W El=36 It=3 Ct=32 #110	—			N				O			N	E
	0200	3642.0	236	10.7	5293													
	0230	3647.6	237	10.9	5294													
	0300	3652.9	237	10.8	5300	Nothing is happening ...												
	0309		cl			cl → 234°												
	0330	3658.4	234	10.8	5297													
	0400	3663.6	234	10.7	5297													
	0407		cl			cl → 230°												
	0430	3669.0	230	10.7	5298													
	0500	3674.9	230	10.7	5297													
	0530	3679.8	230	10.8	5288													
	0600	3685.3	230	10.7	5293													
	0630	3690.6	230	10.6	5283													
	0700	3695.9	230	10.8	5282													
	0703					cl → 232°												
	0730	3701.2	232	10.8	5282													
	0800	3706.55	232	10.6	5289													
	0830	3711.5	231	10.6	5292													
	0900	3717.2	232	10.7	5291													
	0930	3722.6	232	10.7	5292													
	1000	3728.0	232	10.7	5294													
	1030	3733.3	232	10.7	5291	STILL NOTHING												
	1100	3738.8	232	10.7	5293													
	1105					cl 238°												
	1130	3744.2	238	10.7	5241													
	1200	3749.6	238	10.7	5267													
	1230	3754.9	238	10.7	5129													
	1300	3759.3	239	10.7	5235													
	1330	3765.7	231	10.8	5352													
	1320					(SAT FIX) 37°04.736'N 56°50.824'W el-29 it-4 ct-14 #110												

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TRANSIT

ST JOHNS, NFLD

ST GEORGES, BERMUDA

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP	DEL	LO	HI	SWP	DEL
251	0000	3877.2	231°	10.4	5148				N	O	N	E
7 SEPT	0005	3878.2	238°	10.4	5147	C/C 238°						
1984	0030	3882.5	238°	10.4	5149							
	0032	JAT.		Fix	35° 43.813'N, 58° 55.001'W, EI=10, IT=2, CT=21, #110							
	0100	3887.7	238°	10.3	5151							
	0130	3893.0	238°	10.3	5148							
	0200	3898.0	238°	10.4	5047							
	0230	3903.6	238°	10.4	4988							
	0300	3908.9	238	10.4	4885							
	0318	3912.0	236			c/c → 236°						
	0330	3914.1	236	10.6	4875	Change Seabeam plot						
	0400	3919.7	236	10.7	4867							
	0452			SAT	FIX	35° 22.014 59° 35.309 EI 23 IT 25 CT 25 #200						
	0415		C/C			234°						
	0406					SAT FIX 35° 20.588 59° 37.840 EI 15 IT 6 CT 22 #110						
	0430	3924.6	234	10.3	4826							
	0428					SAT FIX 35° 18.213 59° 41.771 EI 14 IT 4 CT 25 #130						
	0500	3929.8	233	10.4	4821							
	0456					SAT FIX 35 15.421 59 47.342 EI 19 IT 3 CT 27 #480						
	0509		C/C			C/C → 232						
	0530	3935.1	232	10.4	4776							
	0600	3940.4	232	10.5	4615							
	0616					SAT FIX 35° 07.882'N 60° 02.955'W EL: 78 IT: 4 CT: 30 #130						
	0630	3945.7	231	10.6	4505	c/c → 230°						
	0644					SAT FIX 35° 05.005'N 60° 06.115'W EL: 68 IT: 3 CT: 38 #480						
	0700	3950.9	230	10.5	4578							
	0730	3956.2	230	10.5	4491							
	0800	3961.4	230	10.6	4583	C/C 225°						
	0830	3966.6	225	10.2	4561							
	0802					SAT FIX 34° 57.133'N 60° 21.039'W EL 10 IT 3 CT 22 SAT 130						

TRANSIT ~~TO~~ ST JOHN'S → ST GEORGE'S BERNARDINA!

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DATE	TIME	PIT LOG	CSE	SPD	DEPTH	REMARKS	A		B		C	
							SWP	DEL/LO HI	SWP	DEL/LO HI	SWP	DEL/LO HI
25/	0834					SAT FIX 34°53.557'N 60°26.322'W EL=8 IT=3 CT=23 NI						
7 SEP	0900	3971.8	225	10.3	4512							
1988	0921					SAT NAV. BACK ON, HAD CRASHED 0845						
	0930	3976.9	225	10.3	4605							
	1000	3982.0	225	10.3	4596							
	1030	3987.1	225	10.3	4630							
	1100	3992.4	225	10.3	4686							
	1130	3995.8	225	10.3	4727							
	1200	4002.8	225	10.3	4753							
	1210					C/C → 230°						
	1230	4008.0	230	10.7	4759							
	1300	4013.2	230	10.3	4754							
	1330	4018.4	230	10.3	4681							
	1400	4023.6	229	10.6	4549							
	1354					* SAT FIX #200 34°19.568', 61°20.040', EL=29, IT=4, CT=27						
	1416					* SAT #110 34°17.378', 61°25.447', EL=63, IT=3, CT=35						
	1430	4028.7	227	10.3	4433	C/C → 228°						
	1500	4033.9	228	10.3	4351							
	1527					C/C → 231°						
	1530	4038.9	231	9.8	4456							
	1540					* SAT FIX #200 34°08.362', 61°36.772', EL=32, IT=3, CT=29						
	1600	4043.7	231	9.4	4509							
	1603					* SAT FIX #3406.084'N 61°40.149'W EL=17 IT=3 CT=26 #110						
	1618		C/C			C/C → 233°						
	1630	4048.6	233	9.5	4535							
	1626					* SAT FIX #3403.974 61°43.577' EL=10 IT=6 CT=17 #110						
	1646					C/C → 260°						
	1700	4053.3	259	10.2	4578							
	1706					C/C → 232°						
	1730	4058.2	232	9.7	4620							

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TRANSIT ST JOHN'S → ST GEORGE'S
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