GEOPHYSICS LOG

FARNELLA 87-5

BLAKE ESCARPMENT

+

BAHAMAS

MAY 10-27, 1981

MASSCOMP ERROR

LOG

FRNL 87-5
87018 104511

SHIP/CRUISE NO./LEG FRNL 87-5

CHIEF SCIENTIST DILLON/SCANLON

LINE START / END	TIME	~~YYMM~~DD JD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
—	1754	130				2-CHANNEL/160,N?
—	1755	130				
—	1841	130				
—	1848	130				
—	1900	130	59.3	6.4		
—	1930	130	42.9	5.6		
12X	1940	130	—	—		
12X	2000	130	52.0	6.76		
12X	2030	130	58.0	6.8		
12X	2100	130	53.0	5.8		
12X	2130	130	51.0	5.0		
12X	2200	130	46	4.8		
12X	2230	130	52	4.3		
12X	2300	130	57	7.6		
12X	2330	130	58	6.4		
12X	0000	131	57	6.7		
12X	0030	131	52	6.7		
12X	0056	131	—	—		
12X	0100	131	57	6.9		
12X	0130	131	53	7.1		
12X	0200	131	60	7.3		
12X	0230	131	55	7.6		
12X	0252	131				
12X	0300	131	59	7.7		
~~12X~~	0316	131	—	—		
~~12XB~~	0329	131	—	—		
12XB	0330	131	191	8.1		
12XB	0400	131	197	9.2		
12XB	0430	131	193.3	8.6		
12XB	0500	131	191.4	8.0		
12XB	0530	131	191.8	8.5		
12XB	0600	131	196.1	7.9		

AREA

TIME ZONE GMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						10KHZ ONLINE @1754
						2.5KHZ ONLINE @1755
			001			SOT 001 @1841
						DWD 6 sec. @1848
5						
						SOL 12X AT 1940 (OVERLAPS END OF LINE 12 OF FRNL-87-4
10						
15						
						DWD 5 sec. @ 0054
20						
			001/002			{EOT 001 @ 0252
						[SOT 002 @ 0252
25						c/c to 191° @ 0316; EOL 12X
						on cc 191°, SOL 12XB
30						

SHIP/CRUISE NO./LEG FRNL 87-5

CHIEF SCIENTIST DILLON / SCANLON

LINE START / END	TIME	~~YYMM~~JD DD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
12KB	0628	131				
13	0634	131	236°			
13	0647	131				
13	0700	131	237.5°	8.5		
13	0730	131	235.0°	8.7		
13	0800	131	227.0°	6.9		
13	0830	131	241	11.6		
13	0901	131	243	12.7		
13	0930	131	242	16		
13	1000	131	236	10		
13	1030	131	234	8.2		
13	1100	131	236	9.8		
13	1130	131	235	5.0		
13	1200	131	238	9.8		
13	1230	131	237	9.1		
13	1300	131	237	9.4		
13	1330	131	237	9.5		
13	1400	131	237	9.9		
13	1430	131	237	9.3		
13	1457	131				
13	1458	131				
13	1500	131	237	9.1		
13	1530	131	235	9.0		
13	1600	131	237.0°	8.6		
13	1630	131	237.4°	8.6		
13	1700	131	241.4°	10.7		
13	1730	131	237.8°	8.4		
13	1800	131	238.8°	9.5		
13	1830	131	224.8°	8.0		
13	1900	131	241.1°	8.5		
13	1930	131	238.5°	8.3		
13	2000	131	235	8.0		
13	2030	131	235	6.6		

AREA

TIME ZONE 6MT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
			EOT 2			EOL 12XB @ 428 EOT 2
						SOL 13 CRS - 236°
			SOT 3			SOT 3 AT 0647
			3			EOT 3 @ 1457
			4			SOT 4 @ 1458
						SOT 4 @ 1458

SHIP/CRUISE NO./LEG FRNL 87-5

CHIEF SCIENTIST DILLON / SCANLON

LINE START / END	TIME	~~YYMMDD~~ D	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
13	2100	131	237	7.3		
13	2130	131	236	7.9		
13	2200	131	239	9.0		
13	2230	131	236	8.4		
13	2300	131	231	7.8		
13	2309	131	—	—		
13	2330	131	235	8.0		
13	0000	132	234	8.5		
13	0030	132	235	8.3		
13	0100	132	234	8.3		
13	0130	132	229	8.0		
13	0200	132	228	8.9		
13	0230	132	236	8.5		
13	0300	132	236	7.8		
~~13~~	0323	132				
~~13B~~	0327	132	206			
13B	0256 0358	132			EOT 5 0256/132	ACTUAL END OF DATA 0256/132 NOTICED NO ACQUISITION AT 0358/132
13B	0400	132	203.8°	8.5		
13B	0430	132	201.5°	8.7		
13B	0436	132				
13B	0500	132	208.1°	8.9		
13B	0530	132	211.8°	9.2		
13B	0559	132				
14	0616	132	NEW HEADING 057°			
14	0630	132	059°	9.9		
14	0700	132	049°	7.4		
14	0730	132	056°	8.5		
14	0800	132	054°	7.9		
14	0830	132	052	8.0		
14	0900	132	056	8.9		
14	0930	132	052	7.8		
14	1000	132	057	8.5		
14	1030	132	061	8.7		

AREA

TIME ZONE GMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
5						
			5 / 4			EOT 4, SOT 5 @ 2309
10						
			EOT 5		*	EOT 5 132 0256 - TAPE INTERRUPT
15						EOL 13 @ 0323
						SOL 13B @ 0327
						MASS COMD DOWN - NO DATA ACQUISITION FROM 0256 - 0436
20			SOT #6			SOT #6 @ 0436
			EOT #6			EOL 13B @ 0559
			SOT #7			SOL 14 @ 0616 057°
25						
30						

7.

SHIP/CRUISE NO./LEG FRNL 87-5

CHIEF SCIENTIST DILLON/SCANLON

LINE START / END	TIME	JD YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
14	1100	132	058	9.2		
14	1130	132	053	8.5		
14	1200	132	057	9.4		
14	1230	132	060	8.5		
14	1300	132	056	8.6		
14	1330	132	060	8.2		
14	1400	132	060	8.5		
14	1427	132				
14	1427	132				
14	1430	132	061	9.1		
14	1500	132	059	8.3		
14	1530	132	060	8.3		
14	1600	132	056.9	7.7		
14	1630	132	055.5°	8.1		
14	1700	132	052.5	7.0		
14	1730	132	054.9°	7.8		
14	1800	132	061.6°	9.6		
14	1830	132	061.1°	9.3		
14	1854	132				
14	1900	132	054.6°	7.0		
14	1930	132	058.1°	7.5		
14	2000	132	062.0°	10.5		
14	2030	132	062	9.0		
14	2100	132	060	8.0		
14	2130	132	062	8.5		
14	2200	132	053	6.7		
14	2230	132	054	8.9		
14	2238	132	—	—		
14	2300	132	049	7.7		
14	2330	132	057	6.3		
14	0000	133	060	9.0		
14	0030	133	059	8.7		
14	0100	133	056	7.5		

AREA

TIME ZONE 6MT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
			7			EOT 7 @ 1427:44
			8			SOT 8 @ 1427:54
						DWD. 6sec.
						~2100 CHANGE FILTER ON LSIR FROM 15/75 - 15/160
			9 8			EOT 8, SOT 9 @ 2238

SHIP/CRUISE NO./LEG FRNL 87-5

CHIEF SCIENTIST DILLON/SCANLON

LINE START / END	TIME	~~YYMMDD~~ DD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
14	0130	133	054	8.4		
14	0200	133	049	7.8		
14	0230	133	047	8.7		
~~14~~	0246	133				
~~14B~~	0258	133				
14B	0300	133	128	8.3		
14B	0330	133	132	8.2		
14B	0400	133	133.6°	8.6		
14B	0430	133	168.6°	7.5		
14B	0513	133			C/C TO 237°	
15	0520	133				
15	0530	133	230.5°	5.4		
15	0600	133	236.7°	7.2		
15	0630	133	242.8°	9.9		
15	0700	133	235.6°	7.4		
15	0730	133	245.6°	9.1		
15	0800	133	242.5°	9.1		
15	0830	133	236	8.7		
15	0900	133	216	4.6		
15	0903	133	242	10.1		
15	1000	133	242	9.5		
15	1030	133	237	7.1		
15	1100	133	242	9.9		
15	1130	133	244	11		
15	1200	133	235	6.7		
15	1230	133	237	8.4		
15	1300	133	236	8.6		
15	1330	133	238	9.0		
15	1331	133				
15	1331	133				
15	1400	133	239	9.1		
15	1430	133	238	8.9		
15	1500	133	238	9.0		

AREA

TIME ZONE 6MT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						EOL 14 @ 0246, c/c150°
						SOL 14B @ 0258
			EOT 9			EOL 14B @ 0513/133 EOT 9 @ 0513/
			SOT 10			SOL 15 @ 0520/133 SOT 10 @ 05
			10			EOT 10 @ 1331 hrs
			11			SOT 11 @ 1331 hrs

11.

SHIP/CRUISE NO./LEG FRNL 87-5

CHIEF SCIENTIST DILLON / SCANLON

LINE START / END	TIME	~~YYMMDD~~ JD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
15	1530	133	235	8.3		
15	1600	133	238.1°	10.4		
15	1630	133	237.6°	8.3		
15	1700	133	238.3°	8.8		
15	1730	133	238.1°	8.8		
15	1800	133	236.8°	8.5		
15	1830	133	230.4°	7.2		
15	1900	133	238.1°	8.2		
15	1930	133	237.2°	7.9		
15	2000	133	237	8.0		
15	2030	133	230	6.5		
15	2100	133	237	8.0		
15	2130	133	228	6.0		
15	2142	133	-	-		
15	2200	133	236	6.4		
15	2230	133	237	6.9		
15	2300	133	237	8.0		
15	2330	133	234	7.6		
15	0000	134	238	8.2		
15	0024	134				
15	0030	134	237	8.5		
15	0100	134	238	8.6		
15	0130	134	235	8.7		
15	0200	134	233	8.8		
15	0230	134	236	8.2		
15	0300	134	241	8.7		
15B	0327	134				
15B	0334	134	203	8.7		
15B	0400	134	198.6°	8.2		
15B	0430	134	197.8°	8.7		
15B	0433	134				DWD - 4 SEC.
15B	0500	134	195.1°	8.8		

AREA

TIME ZONE GMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
			12/11			EOT 11, SOT 12 @ 2142
						changed water delay from 6 n to 5 n @ 0024
						c/c to 203°; EOL 15 @ 0327
						SOL 15B @ 0334, on c/c 203°
						DWD 4 SEC. @ 0433/134

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SHIP/CRUISE NO./LEG FRNL 87-5

CHIEF SCIENTIST DILLON / SCANLON

LINE START / END	TIME	~~YYMMDD~~ JD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
15B	0503	134			c/c 232°	
16	0506	134				
16	0510	134				
16	0530	134	234.6°	8.5		
16	0600	134	235.6°	9.0		
16	0623	134				DWD - 3 sec.
16	0630	134	234.0°	9.2		
16	0700	134	230.9°	8.6		
16	0730	134	232.2°	8.4		
16	0800	134	234.2°	8.8		
16	0830	134	232	8.1		
16	0853	134	—	—		DWD - 4 sec.
16	0900	134	233	8.6		
16	0930	134	232	8.4		
16	1000	134	232	8.3		
16	1030	134	233	8.7		
16	1100	134	234	9.2		
16	1130	134	231	8.9		
16	1200	134	230	8.9		
16	1230	134	233	9.1		
16	1251	134	231	9.0		
16B	1258	134	270	9.2		
"	"	"	"	"		
16B	1300	134	267	9.1		
16B	1321	134				
16B	1321	134				
16B	1330	134	270	9.1		
16B	1350	134				
16B	1350	134				
	1357	134				
17	1358	134	180°	8.9		
17	1400	134	180°	8.9		
17	1430	134	179	8.7		

AREA

TIME ZONE GMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
1			EOT 12			EOL 15B @ 0503 EOT @ 0503
						SOL 16 @ 0506
			SOT 13			SOT @ 0510
5						
						DWD - 3SEC, (From 4)
10						
						DWD 3 to 4 sec @ 0853
15						
20						
						EOL 16 @ 1251 i/c to 270°
						CHANGE RCDR TO 4sec. SWEEP
			13			SOL 16B @ 1258
25			13			EOT 13 @ 1321
			14			SOT 14 @ 1321
						EOL 16B @ 1350 i/c to 1800
			14			EOT 14 @ 1350
30			15			SOT 15 @ 1353
						SOL 17 @ 1358, i/c 1800
33						

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SHIP/CRUISE NO./LEG FRNL 87-5

CHIEF SCIENTIST DILLON/SCANLON

LINE START / END	TIME	~~YYMMDD~~ JD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
17	1500	134	179	8.6		
17	1530	134	182	8.7		
17	1600	134	180	8.8		
17	1630	134	180.1°	8.8		
17	1700	134	180.1°	8.7		
17	1705	134				DWD-5SEC.
17	1730	134	179.1°	8.6		
17	1800	134	181°	8.6		
17	1830	134	180.2°	8.8		
17	1900	134	176.0°	8.9		
17	1911	134				DWD-6SEC
17	1930	134	179.6°	8.9		
17	2000	134	177.5°	8.4		
17	2030	134	180	8.5		
17	2050	134	—	—		
17	2056	134	—	—		
17	2100	134	180	8.4		
17	2130	134	183	8.3		
17	2200	134	181	8.7		
17	2204	134	—	—		
17	2230	134	180	9.0		
17	2245	134	—	—		
17B	2254	134	--	-		
17B	2300	134	273	7.6		
17B	2330	134	270	7.9		
17B	0000	135	272	7.8		
17B	0030	135	270	7.6		
17B	0050	135	270			
17B	0050	135	270			
	0056	135	in turn			
	0058	135	000			
18	0130	135	359	7.0		
18	0200	135	000	7.3		

AREA

TIME ZONE 6MT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
						DWD - SSEC @ 1705
						DWD - GSEC @ 1911/134
						PAPER @ 2050 CHANGE / LSR, FLTR 15/160
						LSR BACK ON @ 2056 6SEC SWD
			16/15			EOT 15 SOT 16 @ 2204
						EOL 17 @ 2245 dc to 270°
						SOL 17B @ 2254
						EOL 17B @ 0050 hrs, dc to 000°
						EOT 16 0050 hrs
						SOT 17, 0056 hrs
						SOL 18 @ 0058 hrs, dc to 000°

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SHIP/CRUISE NO./LEG FRNL 87-5

CHIEF SCIENTIST DILLON/SCANLON

LINE START / END	TIME	~~JD~~ YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
18	0227	135				
18	0230	135	358	7.7		
18	0237					
18	0257					
18						
18	0304	135	001	7.8		
18	0330	135	359	7.7		
18	0400	135	359°	7.9		
18	0430	135	359.6°	7.8		
18	0500	135	01.6°	7.8		
18	0530	135	00.2°	7.9		
18	0600	135	02.1°	8.0		
18	0609	135	0.0	8.2		
18	0617	135				DwD-5SEC
18	0630	135	01.9°	7.9		
18	0700	135	01.6°	8.0		
18	0726	135				DwD-4SEC.
18	0730	135	359.3°	8.3		
18	0800	135	360	8.6		
18	0830	135	002.95	8.3		
18	0900	135	360	8.8		
18	0907	135	—	—		
18	0930	135	000	8.7		
18	1000	135	359	8.6		
18	1027	135	—	—		
—	1030	135	270	8.7		
18B	1037	135	—	—		
18B	1037	135	—	—		
18B	1100	135	269	8.7		
18B	1127	135				
18B	1130	135	269	8.5		
18B	1158	135				
18B	1200	135	269	8.9		

AREA

TIME ZONE GMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
			17			pat filter scan from 18 to 12
						DWD from 6 to 5s @ 0237 hrs
						" " 5 to 4s
5						
						DWD 4s to 3s
10						
						DWD - 4sec @ 0609/135
						DWD - 5sec @ 0617/135
15						
						DWD - 4sec @ 0726/135
20						
			18/17			EOT 17, SOT 18 @ 0907/135
25						EOL 18 @ 1027/135 c/c to 270°
						SOL 18B @ 1037/135
			18			@ 1037 ATR GUN OFF FOR REPAIR - EOT 18 @ 1037 - MASS COMP OFF
			19			MASS COMP BACK ON @ 1127/135
30						SOT 19 @ 1127
						DWD FROM 4 to 3 @ 1158

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SHIP/CRUISE NO./LEG FRNL 87-5

CHIEF SCIENTIST DILLON / SCANLON

LINE START / END	TIME	~~YYMMDD~~ JD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
183	1220	135	—	—		
—	1227	135	—	—		
19	1226	135	—	—		
19	1230	135	172	8.2		
19	1300	135	180	8.6		
19	1313	135				
19	1330	135	180	8.7		
19	1400	135	179	8.2		
19	1430	135	180	8.2		
19	1500	135	179	8.2		
19	1530	135	180	8.2		
19	1543	135				
19	1552	135				
19	1600	135	179.0°	8.5		
19	1630	135	178.4°	8.3		
19	1700	135	181.0°	8.5		
19	1723	135				DWD - 3 SEC
19	1730	135	178.0°	8.8		
19	1738	135				DWD - 2 SEC
19	1800	135	180.3°	9.0		
19	1817	135				DWD - 1 SEC
19	1820	135				AIRGUN off @ 1820
19	1830	135	182.5°	9.2		
19	1853	135				
19	1900	135	182.4°	9.5		
19	1902	135				
19	1930	135	178.7°	9.2		
19	1956	135				DWD - 2 SEC.
19	2000	135	177°	9.3		
19	2029	135	177	9.2		DWD - 3 SEC.
19	2030	135	179	9.2		
19	2035	135	-			
19	2052	135				DWD - 5 SEC

AREA

TIME ZONE GMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
						EOT 19 @ 1220
			19			LEDL 18 @ c/c to 180° @ 1220
			20			SOT 20 / @ 1226
						SOL 19 @ 1228, on cc / 180°
						DWD from 3 to 4s
						airgun off at 1543 hrs
						airgun on @ 1552 hrs
						DWD - 3 SEC. @ 1723 / 135
						DWD - 2 SEC. @ 1738 / 135
						DWD - 1 SEC @ 1817 / 135
						AIRGUN off AT. 1820 / 135
			EOT 20			EOT # 20 @ 1853 / 135
			SOT # 21			SOT # 21 @ 1902 / 135
						DWD 2 SEC @ 1956 / 135
						DWD 3 S. @ 2029
						DWD - 4 SEC @ 2035
						DWD - 5 S.

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SHIP/CRUISE NO./LEG FRNL 87-5

CHIEF SCIENTIST DILLON / SCANLON

LINE START / END	TIME	~~YYMMDD~~ JD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
19	2100	135	180	9.0		
19	2130	135	180	8.7		
19	2135	135	—	—		
19	2200	135	180	8.1		
19	2230	135	182	8.8		
19	2300	135	183	8.9		
19	2330	135	179	8.8		
19	0000	136	180	8.9		
19	0030	136	179	8.6		
19	0100	136	181	8.5		
19	0113	136				
19	0114	136	175°			
19	0130	136	177	8.3		
19	0200	136	174	8.2		
19	0230	136	176	8.3		
19	0300	136	178	7.9		
19	0313	136				
19	0313	136				
19	0330	136	176	7.9		
19	0400	136	174.2	8.2		
19	0430	136	173.6°	8.0		
19	0500	136	179.9°	7.8		
19	0530	136	174.3°	8.4		
19	0600	136	175.3°	8.3		
19	0630	136	175.7°	8.3		
19	0700	136	175.6°	8.1		
19	0730	136	177.5°	7.9		
19	0800	136	177.9°	8.2		
19	0827	136	—	—		
—	0830	136	193°	8.7		
19B	0837	136	—	—		
19B	0849	136	—			
19B	0849	136	—			
—	0856	136				

AREA

TIME ZONE GMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						DWD to 6 @ 2135
5						
10						
						9c from 180° to 175°
						in one 175-6
15						
			21			EOT 21 @ 0313
			22			SOT 22 @ 0313
20						
25						
						EOL 19 @ 0827 c/c to 270°
30						
						SOL 19B @ 0837
						EOL 19B @ 0849 c/c TO 353°
			EOT 22			EOT 22 @ 0849
						DWD TO 5 @ 0854

23/

SHIP/CRUISE NO./LEG FRNL 87-5

CHIEF SCIENTIST DILLON/SCANLON

LINE START / END	TIME	~~YYMMDD~~ JD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
—	0853	136				
20	0859	136	—	—		
20	0900	136	340	9.5		
20	0911	136				
20	0930	136	358	8.7		
20	0935	136				
20	1000	136	351	8.8		
20	1017	136				
20	1030	136	352	8.7		
20	1100	136	357	8.2		
20	1130	136	355	8.7		
20	1130	136	—	—		
20	1143	136				
20	1200	136	357	8.5		
20	1212	136				
20	1223	136				
20	1230	136	358	8.5		
20	1300	136	356	8.4		
20	1330	136	357	8.7		
20	1400	136	358	8.8		
20	1430	136	358	8.6		
20	1500	136	358	8.4		
20	1530	136	359	8.2		
20	1600	136	356.9°	33		
20	1630	136	358.7°	8.2		
20	1700	136	358.7°	8.3		
20	1704	136				
20	1727	136				DWD-5SEC.
20	1730	136	359.6	7.9		
20	1800	136	358.7°	8.2		
20	1830	136	356.5°	8.3		
20	1900	136	358.9°	8.5		
20	1912	136			C/C TO 00.0	

AREA

TIME ZONE GMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
			SOT 23			SOT 23 @ 0853
						SOL 20 @ 0859
						DWD TO 4 @ 0911
						DWD TO 5 @ 0935
						DWD TO 4 @ 1017
						-
						DWD TO 5 @ 1130
						DWD TO 6 @ 1148
						put filter gains from 6 to 12
						c/c 2° to rt, -3570
			24/23			EOT 23, SOT 24 @ 1704/136
						DWD - 5 SEC. @ 1727/136
						c/c TO 01.0 @ 1912

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SHIP/CRUISE NO./LEG FRNL 87-5

CHIEF SCIENTIST DILLON / SCANLON

LINE START / END	TIME	~~YYMMDD~~ JD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
20	1930	136	358.6	8.3		
20	1934	136				DWD-4SEC.
20	2000	136	0.95°	8.5		
20	2024	136				DWD-9 SEC.
20	2030	136	355	7.6		
20	2039	136				DWD-2S
20	2046	136				DWD-1S
20	2100	136	00165	7.8		
20	2130	136	359	7.5		
20	2200	136	360	7.4		
20	2230	136	359	7.2		
20	2300	136	001	7.5		
20	2330	136	000	7.2		
20	2355	136				
20	0000	~~137~~	0.6	7.2		
20	0016	137				
20	0028	137				
~~20~~	0030	137	—	-		
20B	0037	137				
~~20B~~	0100	137				
—	0105	137				
21	0107	137				
21	0115	137				
21	0130	137	180	7.4		
21	0138	137				
21	0152	137				
21	0200	137	181	9.1		
21	0230	137	181	9.1		
21	0309	137	184	9.1		
21	0330	137	182	8.6		
21	0400	137	179.5	8.7		
21	0430	137	180.4	8.7		
21	0446	137				DWD-2SEC

AREA

TIME ZONE GMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						DWD .4SEC @ 1934/136
						DWD - 3 sea @ 2024
						DWD - 2 sec. @ 2039
						DWD - 1 sec @ 2046
						DWD TO 2 @ 2355
						DWD TO 3 @ 0016
						EOL 20 @ 0028 dc TO 270°
						SOL 20B @ 0037
			24 / 25			EOT 24 EOL 20B @ 0100; dc to 18
						SOT 25 @ 0105
						SOL 21 @ 0107, on cse 180°
						DWD TO 20 @ 0115
						DWD to 1 @ 0138
						portfilt dc to 6 from 12
						DWD - 2SEC. @ 0446/137

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SHIP/CRUISE NO./LEG

CHIEF SCIENTIST

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
21	0456	137				DWD 3SEC
21	0500	137	181.2	8.4		
21	0517	137				D-D-4SEC
21	0530	137	179.2	8.3		
21	0600	137	181.9	8.4		
21	0622	137				DWD - 3SEC
21	0630	137	176-1	8.6		
21	0700	137	185.8	7.9		
21	0704	137				DWD-4SEC
21	0730	137	179.9	7.7		
21	0800	137	181	7.6		
21	0804	137				DWD- 3 sec
21	0830	137	180	7.5		
21	0900	137	177	7.8		
21	0910	137				
21	0916	137				
21	0919	137				DWD - 2 sec
21	0930	137	177	8.0		
21	0959					DWD - 3 sec
21	1000	137	178	8.2		
21	1016	137				DWD - 2
21	1030	137	181	7.3		
21	1100	137	179	8.0		
21	1116	137				DWD - 1
21	1130	137	179	8.3		
21	1200	137	181	8.7		
21	1216	137				
21	1230	137	178	8.5		
21	1300	137	180	8.6		
21	1330	137	180	9.0		
21	1335	137				
21	1342	137				
21	1400	137	180	9.1		

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
						DWD 3SEC @ 0456/137
						DWD 4SEC @ 0517/137
						DWD 3SEC @ 0622/137
						DWD- 4SEC. @ 0704/137
						DWD TO 3 @0804
						C/C TO 1.5° TO PORT
			26/25			EOT 25/SOT 26 @0916
						DWD TO 2 @0919
						DWD TO 3SEC @0957
						DWD TO 2 @1014
						DWD to 1 @ 1116
						inner port filt. gun from 0 to 6
						airgun recorder (15-160 Hz) down to repair loose wire
						airgun recorder on line

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SHIP/CRUISE NO./LEG FKNL 87-5

CHIEF SCIENTIST DILLON/SCANLON

LINE START / END	TIME	JD YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
21	1430	137	179	9.0		
21	1500	137	180	8.9		
21	1530	137	176	8.4		
21	1600	137	177.8	8.4		
21	1616	137			C/C 270°	
21B	1624	137				
21B	1630	137	269.6	9.3		
21B	1700	137	268.4	9.5		
21B	1706	137			C/C 00.0	
22	1714	137				
22	1730	137	358.9	8.9		
22	1800	137	353.8	8.9		
22	1830	137	01.9	8.8		
22	1839	137				DWD - OSEC. 1839/137
22	1900	137	0,07	10.3		
22	1930	137	356.1	8.5		
22	2000	137	001.1	8.6		
22	2030	137	000	8.6		
22	2100	137	360	8.6		
22	2130	137	001	8.7		
22	2200	137	001	8.6		
22	2230	137	002	8.8		
22	2300	137	001	8.7		
22	2330	137	001	8.9		
22	0000	138	358	9.1		
22	0030	138	359	8.8		
22	0100	138	0000	9.2		
22	0102	138				
22	0125	138				
22	0125	138				
22	0130	138	001	9.3		
22	0200	138	001	9.2		
22	0230	138	000	9.2		

AREA

TIME ZONE GMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
						EOL 21 @ 1616/137
						SOL 21B @ 1624/137
			EOT 26			EOL 21B EOT 26 @ 1706
			SOT 27			SOL 22 SOT 27 @ 1714
						DWD - OSEC. @ 1839/137
						dwd from 0 to 1 @ 0102
			EOT 27			EOT 27 @ 0125
			SOT 28			SOT 28 @ 0125

SHIP/CRUISE NO./LEG FRNL 87-5

CHIEF SCIENTIST DILLON/SCANLON

LINE START / END	TIME	~~YYMMDD~~ JD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
22	0300	138	000	9.2		
22	0330	138	002	9.2		
22	0400	138	02.3	8.9		
22	0430	138	01.2	8.6		
22	0500	138	03.2	8.4		
22	0530	138	359.0	8.2		
22	0600	138	00.4	8.1		
22	0630	138	359.2	8.2		
22	0700	138	0.7	8.3		
22	0730	138	3.3	7.6		
22	0800	138	0.12	7.8		
22	0802	138				PWD - 2 SEC @ 0806/135
22	0830	138	359	8.2		
22	0834	138				PWD - 3 SEC
22	0900	138	358	8.1		
22	0930	138	358	8.7		
22	0936	138				
22	1000	138	357	8.9		
22	1030	138	001	8.7		
22	1100	138	002	8.9		
22	1130	138	002	8.8		
22	1200	138	001	8.8		
22	1230	138	359	8.8		
22	1300	138	359	8.7		
22	1330	138	000	8.7		
22	1357	138				
22	1403	138				
22B	1430	138	309	8.9		
22B	1458	138				
22B	1458	138				
	1503	138				
23	1513	138	180°			
23	1530	138	182	7.4		

AREA

TIME ZONE GMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						DWD - 25cc @ 0806
						DWD - 35cc @ 0835
			29 / 28			EOT 28 SOT 29 @ 0936
						EOL 22A @ 1357, c/c to 305°
						SOL 22B @ 1403, on Co 305°
						EOL 22B @ 1458; c/c to 180°
			EOT 29			EOT 29 @ 1458
			SOT 30			SOT 30 @ 1503; in turn
						SOL 23 @ 1513, on 180°

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SHIP/CRUISE NO./LEG FRNL 87-5

CHIEF SCIENTIST DILLON / SCANLON

LINE START / END	TIME	~~YYMMDD~~ JD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
23	1600	138	178.4°	7.3		
23	1630	138	179.3°	7.2		
23	1700	138	179.2	7.4		
23	1730	138	181.8°	7.4		
23	1800	138	180.7°	7.4		
23	1830	138	179.4°	7.3		
23	1900	138	180.2	7.4		
23	1930	138	178.6°	7.4		
23	2000	138	179	7.7		
23	2030	138	180	8.0		
23	2045	138				
23	2100	138	182	8.2		
23	2130	138	179	8.6		
23	2132	138				
23	2140	138				
23	2200	138	179	8.8		
23	2230	138	180	8.8		
23	2300	138	181	8.6		
23	2314	138				
23	2330	138	180	8.4		
23	2336	138				
23B	2343	138				
23B	2348	138				DWD=0
23B	0000	139	270°	8.6		
23B	0027	139				
	0027	139				
	0032	139				
24	0036	139	000°			
24	0100	139	001	8.7		
24	0106	139				
24	0110	139				
24	0130	139	001	8.5		
24	0200	139	359	8.3		

AREA

TIME ZONE GMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						DWD to 2 @ 2045
						DWD to 1 @ 2132
						port filter gain from 12 to 6 db.
			31/30			EOT 30 - SOT 31 @ 2314
						EOL 23 @ 2336 c/c to 270°
						SOL 23B @ 2343
						DWD TO 0 @ 2348
						EOL 23B @ 0027, c/c to 0000
			EOT 31,			EOT 31 @ 0027
			SOT 32			SOT 32 @ 0032
						SOL 24 @ 0034, on re 0000
						change roll @ 0106
						160 kHz AGC recorder (75-150 Hz)
						recorder on @ 0110

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SHIP/CRUISE NO./LEG FRNL 87-5

CHIEF SCIENTIST DILLON/SCANLON

LINE START / END	TIME	~~YYMMDD~~ JD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
24	0229	139				
24	0230	139	359	8.0		
24	0300	139	359	8.2		
24	0330	139	359	8.1		
24	0400	139	001.5°	8.1		
24	0430	139	001.2°	8.3		
24	0455	139				DWD - fun 1 to 2 sec @ 0455
24	0500	139	002°	8.7		
24	0530	139	358.4°	8.8		
24	0600	139	000°	8.6		
24	0630	139	000°	8.7		
24	0700	139	359.9°	9.0		
24	0730	139	002°	9.1		
24	0800	139	359.6	9.4		
24	0822	139				
24B	0826	139				
24B	0828	139				
24B	0830	139	332°	9.1		
24B	0843	139				
24B	0900	139	325°	9.0		
24B	0930	139	326	8.0		
24B	0950	139				
-	1000	139	215°	9.7		
25	1004	139				
25	1030	139	181	9.4		
25	1100	139	178	9.0		
25	1130	139	179	8.2		
25	1200	139	180	8.3		
25	1230	139	181	8.2		
25	1300	139	178	8.7		
25	1330	139	180	8.1		
25	1400	139	180	8.1		
~~25~~	~~1430~~					

AREA

TIME ZONE GMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						DWD from 0 to 1s @ 0229
						DWD from 1 to 2 sec @ 0455
						EOL 24 @ 0822 c/c to 330°
						SOL 24B @ 0824
						DWD to 1 sec @ 828
			33 / 32			EOT 32 SOT 33 @ 0843
						EOL 24B @ 0950 c/c to 180°
			33			EOT 33 @ 0950
			34			SOL 25, SOT 34 @ 1004

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SHIP/CRUISE NO./LEG FRNL 87-5

CHIEF SCIENTIST DILLON/SCANLON

LINE START / END	TIME	JD YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
25	1430	139	181	8.3		
25	1500	139	180	8.3		
25	1530	139	180	8.5		
25	1600	139	180.6°	8.4		
25	1615	139				DWD from 1 to 0 sec @ 1615
25	1630	139	180.9°	8.4		
25	1700	139	179.3°	8.5		
25	1730	139	178.9°	8.3		
25	1800	139	180.9°	7.7		
25	1815	139				
25	1830	139	178.7	7.6		
25	1900	139	179.3	7.7		
25	1920	139			* AIRGUN OFF ~~DOWN FOR MAINTENANCE~~; BOTH SEISMIC RECORDERS off	
						C/C - 270° *
25B	1931	139				
25B	2000	139	271.9°	9.6	*	AIR GUN OUT OFF WATER FOR NEXT 4 1/2 DAYS / INCREASE SPEED TO COVER MORE AREA -
25B	2026	139				
26	2028	139				
26	2030	139	604°	10.3		FROM 1920/139 to 0024/146
26	2100	139	359	9.8		EOT 35 — SOT 36
26	2130	139	001	9.6		
26	2200	139	000	9.9		
26	2230	139	000	10.0		
26	2300	139	000	9.9		
26	2330	139	001	9.3		
26	0000	140	359	9.3		
26	0030	140	001	9.7		
26	0100	140	000°	9.8		
26	0130	140	358	9.3		
26	0200	140	359	7.8		
26	0230	140	000°	7.0		
26	0300	140	000°	7.2		
26	0330	140	000°	7.6		

AIR GUN OFF

AREA

TIME ZONE GMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						DWD from 1 to 0 sec @ 1615/139
			35 / 34			EOT 34 - SOT 35 @ 1815/139
			EOT 35			EOL 25 ; EOT35 @ 1920/139
						SOL 25B @ 1931/139
						EOL 25B @ 2020 c/c to 360°
						SOL 26 @ 2028
			MASSCOMP [illegible] OFF			

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SHIP/CRUISE NO./LEG FRNL 87-5

CHIEF SCIENTIST DILLON

LINE START / END	TIME	~~YYMMDD~~ JD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
26	0400	140	358	7.9		RUNNING W/O AIRGUN
26	0430	140	357.9	9.0		RECORDERS OFF
26	0500	140	000°	8.8		
26	0530	140	355.4°	9.9		
26	0600	140	003°	9.6		
26	0607	140			C/C 244°	
26B	0619	140				
26B	0630	140	240.8	8.2		
26B	0700	140	240.5	8.8		
26B	0704	140			C/C 180°	
27	0712	140				
27	0730	140	181.1°	9.1		
27	0800	140	180.6	9.6		
27	0830	140	179	9.7		
27	0900	140	180	10.1		
27	0930	140	180	10.2		
27	1000	140	180	10.6		
27	1030	140	181	10.9		
27	1100	140	180	11.0		
27	1130	140	175	10.6		
27	1200	140	181	9.4		
27	1230	140	179	9.0		
27	1300	140	180	9.1		
27	1330	140	181	9.3		
27	1400	140	179	9.1		
27	1430	140	181	9.0		
27	1500	140	181	8.9		
27	1530	140	179	9.0		
27	1546	140				
27B	1556	140				
27B	1600	140	274.6°	9.6		
27B	1622	140			C/C 000°	
28	1629	140				

AREA

TIME ZONE GMT - Z

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
						EOL 26 @ 0607/140
						SOL 26B @ 0619/140
						EOL 26B @ 0704/140
						SOL 27 @ 0712/140
						EOL 27 @ 1546, C/C to 270°
						SOL 27B @ 1556/140
						EOL 27B @ 1622/140
						SOL 28 @ 1629/140

MASSCOMP 0 FH

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SHIP/CRUISE NO./LEG FRNL87-5

CHIEF SCIENTIST DILLON/SCANLON

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
28	1700	140	001°	9.9		RUNNING W/O AIRGUN
28	1730	140	358.8	9.8		RECORDERS OFF
28	1800	140	359.7	9.6		
28	1830	140	000°	9.3		
28	1900	140	000°	9.3		
28	1930	140	000°	9.3		
28	2000	140	352.9°	8.2		
28	2030	140	359	7.6		
28	2100	140	359.5	7.8		
28	2130	140	000	7.95		
28	2200	140	359	8.2		
28	2230	140	358	8.4		
28	2300	140	360	7.9		
28	2330	140	000	8.0		
28	0000	141	001	8.1		
28	0030	141	000°	8.2		
28	0100	141	001	8.5		
28	0130	141	359	8.5		
28	0148	141				
28B	0157	141				
28B	0200	141	261	8.0		
28B	0228	141				
29	0235	141				
29	0300	141	185	9.7		
29	0330	141	179	10.0		
29	0400	141	179.7	10.1		
29	0430	141	180.6	10.1		
29	0500	141	179.7	10.2		
29	0530	141	178.5	10.2		
29	0600	141	178.9	9.8		
29	0630	141	179.8	9.8		
29	0700	141	179.0°	9.9		
29	0730	141	180.4°	9.9		

AREA

TIME ZONE GMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						EOL 28, c/c to 260° @ 0148
						SOL 28B, on acc 260° @ 0157
						EOL 28B @ 0228, c/c to 180°
						SOL 29 @ 0235, on acc 180°

OFF

MASS COMP

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SHIP/CRUISE NO./LEG FRNL 87-5

CHIEF SCIENTIST DILLON / SCANLON

LINE START / END	TIME	JD YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM .
29	0800	141	182	9.2		RUNNING W/O AIRGUN
29	0830	141	178	8.9		RECORDERS OFF
29	0900	141	179	8.9		
29	0930	141	182	8.7		
29	1000	141	177	8.7		
29	1030	141	180	8.5		
29	1051	141				
29B	1100	141	269	10.3		
29B	1128	141				
—	1130	141	270	9.7		
30	1137	141				
30	1200	141	001	9.8		
30	1230	141	000	9.6		
30	1300	141	001	9.9		
30	1330	141	000	9.7		
30	1400	141	001	9.3		
30	1430	141	355	8.2		
30	1500	141	002	8.0		
30	1530	141	001	8.4		
30	1600	141	359.3	8.5		
30	1630	141	001°	8.6		
30	1700	141	359.4°	8.7		
30	1730	141	358.6°	8.7		
30	1800	141	359.7°	8.5		
30	1830	141	000°	8.4		
30	1900	141	359.7°	8.4		
30	1930	141	359.9°	9.2		
30	2000	141	001°	10.1		
30	2030	141	359	9.8		
30	2100	141	360	10.3		
30	2117	141	—	—		
30B	2129	141	246	7.7		
30B	2130	141	246	7.7		

AREA

TIME ZONE GMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						EOL29 @1051 c/c to 270
						SOL 29B @1100
						EOL 29B @ 1128 c/c to 360°
						SOL 30 @ 1137
						EOL 30 @ 2117 c/c to 240°
						SOL 30B @ 2129

OFF

MASSCOMP

45/

SHIP/CRUISE NO./LEG FRNL 87-5

CHIEF SCIENTIST DILLON / SCANLON

LINE START / END	TIME	√D YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
30B	2200	141	231	7.6		RUNNING W/O AIRGUN
30B	2209	141				RECORDERS OFF
31	2222	141	188	7.7		
31	2230	141	177	8.0		
31	2300	141	182	8.3		
31	2330	141	181	8.3		
31	0000	142	182	8.5		
31	0030	142	180	8.5		
31	0100	142	180	8.9		
31	0130	142	179	8.9		
31	0200	142	181	9.2		
31	0230	142	179	9.4		
31	0300	142	180	9.6		
31	0330	142	180	9.7		
31	0400	142	179	9.6		
31	0430	142	181.6	9.8		
31	0500	142	179.3	9.6		
31	0530	142	179.2	9.0		
31	0600	142	180.9	8.9		
31	0630	142	179.2	8.5		
31	0700	142	179.8	8.5		
31	0730	142	180.9	8.6		
31	0745	142			C/C 270°	
31B	0754	142				
31B	0800	142	271.8	9.9		
31B	0819	142				
32	0828	142				
32	0830	142	002	10.0		
32	0900	142	000	9.9		
32	0930	142	358	9.8		
32	1000	142	000	9.2		
32	1030	142	359	9.5		
32	1100	142	359	9.2		

AREA

TIME ZONE 6MT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						EOL30B@ 2209 c/c to 180
						SOL31 @ 2222
						EOL31 @ 0745/142
						SOL31B @ 0754/142
						EOL31B@ 0819 c/c to 270
						SOL32@0828

OFF

MASSCOMP

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SHIP/CRUISE NO./LEG FRNL 87-5

CHIEF SCIENTIST DILLON/SCANLON

LINE START / END	TIME	JD YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM	
32	1130	142	000	8.9		RUNNING W/O AIRGUN	1
32	1200	142	000	9.2		RECORDERS, OFF	2
32	1230	142	000	9.3			3
32	1300	142	001	9.3			4
32	1330	142	001	9.6			5
32	1400	142	001	10.1			
32	1430	142	002	10.0			
32	1500	142	001	10.1			
32	1530	142	000	9.9			
32	1600	142	000°	9.7			
32	1630	142	359.8	9.5			
32	1700	142	358.9	9.4			
32	1709	142			C/C 270°		
32B	1717	142					
32B	1730	142	272.5	6.2			
32B	1800	142	267.8	6.2			
32B	1803	142			C/C 180		
33	1812	142					
33	1830	142	184.5	8.1			
33	1900	142	178.9	9.5			
33	1930	142	181.3	8.7			
33	2000	142	179.5	8.9			
33	2030	142	181	9.0			
33	2100	142	182	8.9			
33	2130	142	181	8.8			
33	2200	142	181	9.0			
33	2230	142	180	9.0			
33	2300	142	178	9.0			
33	2330	142	181	9.2			
33	0000	143	179	9.3			
33	0030	143	181	9.4			
33	0100	143	181	9.3			
33	0130	143	180	9.3			

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AREA

TIME ZONE GMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						EOL 32 @ 1709/142
						SOL 32B @ 1717/142
			MASSCOMP OFF			
						EOL 32B @ 1803/142
						Col 33 @ 1812/142

SHIP/CRUISE NO./LEG FRNL 87-5

CHIEF SCIENTIST DILLON/SCANLON

LINE START / END	TIME	JD YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
33	0200	143	179	9.0		RUNNING W/O AIRGUN
33	0230	143	181	8.9		RECORDERS OFF
33	0300	143	179	8.9		
33	0323	143				
33B	0332	143				
33B	0354	143				
34	0403	143				
34	0430	143	002°	9.1		
34	0500	143	359.1°	9.9		
34	0530	143	000°	9.5		
34	0600	143	000°	9.1		
34	0630	143	357.8	8.9		
34	0700	143	001°	9.1		
34	0730	143	000°	9.4		
34	0800	143	359.8	9.6		
34	0830	143	002	9.8		
34	0900	143	360	9.7		
34	0930	143	360	9.8		
34	1000	143	360	9.8		
34	1030	143	359	9.9		
34	1106	143	001	9.9		
34	1130	143	000	9.7		
34	1200	143	000	9.3		
34	1230	143	000	9.0		
34	1300	143	001	8.5		
34	1330	143	001	8.9		
34	1346	143				
34B	1358					
34B	1400	143	223	6.7		
34B	1430	143	223	6.3		
34B	1500	143	223	6.6		
34B	1510	143				
35	1513	143				

AREA

TIME ZONE GMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
						EOL 33, @ 0323 c/c to 270°
						SOL 33B @ 0332
						EOL 33B, c/c to 000° @ 0354
						SOL 34 @ 0403, on cse 000°
						EOL 34 @ 1346, c/c to 223°
						SOL 34B @ 1358, on cse 223°
						EOL 34B, c/c to 180°
						SOL 35, on cse 180°

MASS cam'd OFF

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SHIP/CRUISE NO./LEG FRNL 87-5

CHIEF SCIENTIST DILLON / SCANLON

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
35	1530	143	181	8.6		RUNNING W/O AIRGUN
35	1600	143	179.4	8.8		RECORDERS OFF
35	1630	143	177.2	8.8		
35	1700	143	180.9	8.6		
35	1730	143	180.0	8.6		
35	1800	143	179.8°	8.3		
35	1830	143	180.3°	8.5		
35	1900	143	179.9	8.6		
35	1930	143	178.9	8.0		
35	2000	143	180	8.2		
35	2030	143	180	8.2		
35	2100	143	180	8.1		
35	2130	143	179	7.7		
35	2200	143	181	8.4		
35	2230	143	179	8.7		
35	2300	143	183	9.1		
35	2330	143	181	9.1		
35	0000	144	179	9.1		
35	0030	144	180	9.1		
35	0100	144	181	9.3		
35	0110	144				
35B	0118	144				
35B	0130	144	270	10.6		
35B	0139	144				
36	0150	144				
36	0200	144	359	9.4		
36	0230	144	000	8.9		
36	0300	144	000	9.1		
36	0330	144	001	9.5		
36	0400	144	359.5	9.4		
36	0430	144	001°	9.1		
36	0500	144	000°	9.5		
36	0530	144	354°	10.1		

AREA

TIME ZONE GMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						EOL 35, @ 0110 hrs, c/c to 2700
						SOL 35B, @ 0118 hrs; on at 270
						EOL 35B @ 0139, c/c to 0000
						SOL 36 @ 0150 i on at 0000

MAGS COMP OFF

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SHIP/CRUISE NO./LEG FRNL87-5

CHIEF SCIENTIST DILLON/SCANLON

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
36	0600	144	001°	9.9		RUNNING W/O AIR GUN
36	0630	144	358.9	10.2		RECORDERS OFF
36	0700	144	359.4	10.2		
36	0730	144	359.7	10.3		
36	0800	144	001°	10.4		
36	0830	144	001	10.0		
36	0900	144	359	9.5		
36	0930	144	001	10.2		
36	1000	144	001	10.4		
36	1030	144	001	10.0		
36	1037	144	—	—		
36B	1043	144	—			
36B	1100	144	333	8.5		
36B	1130	144	335	8.6		
36B	1148	144	—	—		
—	1200	144	262	6.0		
37	1204	144	—	—		
37	1230	144	177	8.2		
37	1300	144	182	7.7		
37	1330	144	177	7.7		
37	1400	144	182	7.7		
37	1430	144	180	7.8		
37	1500	144	181	7.9		
37	1530	144	182	7.9		
37	1600	144	180.7	7.9		
37	1630	144	181.7	7.8		
37	1700	144	180.2	7.9		
37	1730	144	180.4	7.7		
37	1800	144	182.5	7.5		
37	1830	144	179.4	7.8		
37	1900	144	179.5	7.7		
37	1930	144	179.1	7.9		
37	2000	144	181.6	8.2		

AREA

TIME ZONE GMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						EOL 36 @ 1037 / C/C TO 330°
						SOL 36B @ 1043 / 144
						EOL 36B @ 1148 / C/C TO 180°
						SOL 37 @ 1204 / 144
			MASS COMP OFF			

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SHIP/CRUISE NO./LEG FRNL87-5

CHIEF SCIENTIST DILLON/SCANLON

LINE START / END	TIME	JD YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
37	2030	144	180	8.1		RUNNING W/O AIRGUN
37	2100	144	182	8.6		RECORDERS OFF
37	2130	144	181	8.7		
37	2200	144	179	8.7		
37	2230	144	180	8.8		
37	2300	144	181	9.5		
37	2330	144	178	9.8		
37	0000	145	179	10.1		
37	0002	145				
38	0011	145				
38	0030	145	088	9.2		
38	0100	145	090	8.9		
38	0130	145	090	8.5		
38	0200	145	090	8.7		
38	0230	145	091	8.5		
38	0300	145	090	8.4		
38	0330	145	089	8.2		
38	0400	145	089	8.4		
38	0430	145	089°	8.5		
38	0500	145	091°	7.8		
38	0530	145	089°	8.2		
38	0600	145	089°	8.3		
38	0630	145	089°	9.0		
38	0700	145	090°	8.5		
38	0730	145	089°	8.7		
38	0800	145	089°	8.8		
38	0830	145	090	8.8		
38	0900	145	090	8.8		
38	0930	145	090	8.7		
38	1000	145	091	9.0		
38	1030	145	089	8.9		
38	1043	145	—	—		
39	1054	14	—	—		

AREA

TIME ZONE GMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
						EOL 37 @ 0002/145; c/c to 090°
						SOL 38 @ 0011/145; c/c to 090°
						EOL 38 @ 1043/145 c/c to 180°
						SOL 39 @ 1054

MASS comp OFF

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SHIP/CRUISE NO./LEG FRNL 87-5

CHIEF SCIENTIST DILLON/SCANLON

LINE START / END	TIME	~~JD~~ YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
39	1100	145	179	9.6		RUNNING W/O AIR GUN
39	1130	145	181	9.5		RECORDERS OFF
39	1200	145	175	9.5		
39	1230	145	181	9.4		
39	1300	145	180	9.4		
39	1330	145	179	9.5		
39	1400	145	179	9.4		
39	1430	145	182	9.4		
39	1500	145	179	9.2		
39	1536	145	180	9.0		
39	1600	145	181	9.0		
39	1630	145	180.1	9.0		
39	1700	145	179.0	8.7		
39	1730	145	179.4	8.7		
39	1800	145	180.5	8.6		
39	1830	145	179.2	8.8		
39	1900	145	182.3	8.6		
39	1930	145	184.0	8.5		
39	2000	145	182.2	8.5		
39	2030	145	178	8.7		
39	2100	145	181	8.7		
39	2130	145	180	8.8		
39	2200	145	180	9.0		
39	2230	145	180	8.9		
39	2300	145	180	8.9		
39	2330	145	182	8.8		
39	2338	145	–	–		
39B	2347	145	–	–		
39B	0000	146	090	7.0		
39B	0024	146			←	AIR GUN / RECORDERS ON
39B	0030	146	090	7.3		
39B	0055	146				
39B	0055	146				

AREA

TIME ZONE GMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
5			MASS COMP OFF			
10						
15						
20						
25						
						EOL 39 @ 2338 c/c 090°
						SOL 35B @ 2347
30	MASS COMP ON →		36			SOT #36 @ 0024; on cal 090°
						EOL 39 @ 0055, dc to 1740
			36			EOT 36, 0055 hrs

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SHIP/CRUISE NO./LEG FRNL 87-5

CHIEF SCIENTIST Dillon/Scanlon

LINE START / END	TIME	~~YYMMDD~~ JD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
[illegible]	0103	146				
40	0105	146				
40	0130	146	173	7.8		
40	0200	146	174	7.9		
40	0230	146	173	8.1		
40	0300	146	173	7.8		
40	0330	146	173	7.4		
40	0400	146	177	7.5		
40	0430	146	175.5	7.3		
40	0500	146	175.6	7.6		
40	0530	146	173.8	7.5		
40	0600	146	173.4	7.4		
40	0630	146	175.3	7.4		
40	0641	146				DWD from 1 to 2 SEC.
40	0700	146	176.5	7.2		
40	0730	146	171.4	7.6		
40	0800	146	173.2	7.2		
40	0820	146				DWD - 2 to 3 SEC
40	0822	146				DWD - 3 to 4 SEC
40	0830	146	180	7.0		
40	0835	146	-	-		DWD 4 to 5 SEC
40	0852	146				DWD 5 to 4
40	0856	146				DWD 4 to 3
40	0900	146	172	7.9		
40	0908	146				DWD 3 to 2
40	0910	146				DWD 2 to 1
40	0915	146				
40	0918	146				
-	0930	146	088	8.0		
40B	0931	146				
40B	0946					DWD 1 to 2
40B	0952					DWD 2 to 3
40B	0959					DWD 3 to 4

AREA

TIME ZONE GMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
			37			SOT 37 @ 0103 hrs;
						SOL 40 @ 0105 hrs, on tape 1740
						DWD from 1 to 2 SEC @ 0641/1740
						DWD - 2 to 3 @ 0822
						DWD 3 TO 4 SEC @ 0822
						DWD 4 TO 5 SEC @ 0835
						DWD 5 to 4 @ 0852
						DWD 4 to 3 @ 0856
						DWD 3 to 2 @ 0908
						DWD 2 to 1 @ 0910
			38/37			EOT 37 SOT 38 @ 0915
						EOL 40 @ 0918 c/c to 082°
						SOL 40B @ 0931
						DWD 1 TO 2 @ 0946
						DWD 2 to 3 @ 0952
						DWD 3 TO 4 @ 0959

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SHIP/CRUISE NO./LEG FRNL 87-5

CHIEF SCIENTIST DILLON / SCANLON

LINE START / END	TIME	JD YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
40B	1000	146	084	8.1		
40B	1004					DWD 4 TO 5
40B	1009	146				
41	1021	146				
41	1022	146				DWD 5 TO 6
41	1030	146	001	9.0		
41	1048	146				DWD 6 TO 5
41	1100	146	354	9.3		
41	1130	146	355	9.3		
41	1151	146				DWD 5 TO 4
41	1152	146				DWD 4 TO 3
41	1155	146				DWD 3 TO 4
41	1200	146	352	9.6		
41	1204	146				DWD 4 TO 3
41	1206	146				DWD 3 TO 4
41	1210	146				DWD 4 TO 3
41	1213	146				DWD 3 TO 2
41	1230	146	354	9.2		
41	1300	146	353	9.2		
41	1330	146	355	9.1		
41	1333					DWD 2 TO 1
41	1400	146	354	9.0		
41	1430	146	354	8.8		
41	1500	146	354	8.8		
41	1530	146	354	8.8		
41	1600	146	354.6	8.7		
41	1630	146	352.7	8.9		
41	1700	146	352.9	8.8		
41	1716	146			C/C 090°	
41B	1725	146				
41B	1730	146	089.7°	7.3		
41B	1800	146	090°	7.6		
41B	1801	146				DWD 1 TO 2 @ 1801/1806

AREA

TIME ZONE EMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						DWD 4 TO 5 @ 1004
			~~38~~			EOL 40B GOT 38 @ 1009
			39			SOL 41, SOT 39 c/c to 3540. @ 1021/146
						DWD 5 TO 6 @ 1022
						EOL 41 @ 1716 c/c-090°
						SOL 41B @ 1725/146
						DWD 1 to 2 @ 1801/146

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SHIP/CRUISE NO./LEG FRNL 87-5

CHIEF SCIENTIST Dillon/Scanlon

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
41B	1806	146				DWD 2 to 3 @ 1806
41B	1812	146				DWD 3 to 4 @ 1812
41B	1817	146				DWD 4 to 5 @ 1817
41B	1830	146				
41B	1833	146				DWD 5 to 6 @ 1833
41B	1833	146				
41B	1854	146			C/C 185	
42	1907	146				
42	1930	146	181.9	8.6		
42	2000	146	183.6	8.8		
42	2030	146	182	8.6		
42	2100	146	182	8.6		
42	2130	146	184	8.3		
42	2134	146				DWD 6 TO 5
42	2138	146				
42	2146	146				DWD 5 to 6
42	2200	146	165	8.8		
42	2230	146	172	7.8		
42	2232	146				DWD 6 TO 5
42	2254	146				AIRGUN OFF-REPAIR EQUIPMENT
42	2300	146	167	8.0		
42	2330	146	170	8.0		
42	0000	147	168	8.0		
42	0030	147	171	7.9		
42	0053	147				
42	0100	147	170	7.9		
42	0130	147	170	8.0		
42	0200	147	169	8.3		
42	0230	147	171	8.0		
42	0234	147				
	0237	147				
43	0238	147				
43	0300	147	205	9.1		

AREA

TIME ZONE GMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						DWD 2 to 3 @ 1806/146
						DWD 3 to 4 @ 1812/146
						DWD 4 to 5 @ 1817/146
						DWD 5 to 6 @ 1833/146
			40 / 39			EOT 39 SOT 40 @ 1833/146
						EOL 41B EOT 40 @ 1854
			SOT 41			SOL 42 SOT 41 @ 1907/14
						DWD 6 TO 5 @ 2134
						4C TO 1700 LINE 42 CONT'D
						DWD 5 TO 6 @ 2146
						DWD 6 TO 5 @ 2232
			41			EOT 41 @ 2254 - AIRGUN OFF FOR REPAIR
			42			SOT 42 @ 0053/147; airguns shut down from 2254 to 0853
			42			EOL 42 @ 0234; C/C to 2070
			43			EOT 42 @ 0234; SOT 43 @ 0237;
						SOL 43 @ 0238; on line 2070

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SHIP/CRUISE NO./LEG ERNL 87-5

CHIEF SCIENTIST Dillon/Scanlon

LINE START / END	TIME	JD ~~YYMMDD~~	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
43	0330	147	208	9.0		
43	0400	147	203	9.2		
43	0430	147	209.3	8.9		
43	0454	147				DWD 5 to 6 @ 0454
43	0500	147	205.1	9.2		
43	0530	147	206.4	9.2		
43	0600	147	202.3	9.4		
43	0630	147	209.7	8.8		
43	0656	147				DWD 6 to 5 @ 0656/147
43	0700	147	211.7	8.5		
43	0730	147	208.5	8.7		
43	0800	147	209.3	8.9		
43	0830	147	216	8.7		
43	0900	147	219	8.3		
43	0930	147	207	9.0		
43	0954	147	—	—		
—	0955	147	-	-		
44	0956	147				
44	0959	147				
44	1000	147	188°	9.4		
44	1030	147	190	9.0		
44	1100	147	198	8.9		
44	1130	147	197	9.4		
44	1200	147	202	8.0		
44	1230	147	187	9.0		
44	1301	147	193	9.6		
44	1330	147	193	9.2		
44	1337	147				
44	1348	147				
44	1356	147				
	1358	147				
45	1401	147	246			
45	1430	147	244	9.0		

AREA

TIME ZONE GMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						DwD 5 to 6 @ 0454/147
						DwD 6 to 5 @ 0656/147
						EOL 43 @ 0954 4c to 190°
			43			EOT 43 @ 0955
						SOL 44 @ 0956
			44			SOT 44 @ 0959
						DwD fr. 5 to 4 sec
						DwDn 4 to 3 sec
			44			EOL 44 @ 1356, 4c to 246° EOT 44
			45			SOT 45 @ 1358
						SOL 45 @ 1401, on rec 246°

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SHIP/CRUISE NO./LEG FRNL 87-5

CHIEF SCIENTIST Dillon/Scanlon

LINE START / END	TIME	~~YYMMDD~~ JD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
45	1500	147	244	9.2		
45	1530	147	238	9.1		
45	1531	147				
45	1600	147	253.8	9.3		
45	1630	147	273.2	10.5		
45	1700	147	230.0	9.4		
45	1730	147	241.0	9.0		
45	1800	147	266.7	10.7		
45	1930	147	279.5	10.1		
45	1840	147			C/C 330°	
45	1848	147			ON LINE 330°	
45	1901	147	326.9	7.5		
45	1930	147	312.0	2.4		
45	2000	147	206.9	1.2	END of FRNL 87-5 SURVEY —	

AREA

TIME ZONE GMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						DWD 3 to 2 sec
						C/C 330° @ 1840/147
						ON LINE 330° @ 1848/147
						EOL 45 EOT 45 @ 2000/147