Geophysics Log
GYRE 81-6-1
Bouma
[redacted]

104416

#1

U.S.G.S.
GEOPHYSICS
LOG

SHIP GYRE

CRUISE NO. ~~81-5~~ 81-6-1 4/6-4/17

DATE 4/7/81 — 4/23/81

CHIEF SCIENTIST A.H. BOUMA

SHIP/CRUISE NO./LEG GYRE / 81-~~5~~ 6 / LEG I

CHIEF SCIENTIST A.H. BOUMA

LINE START / END	TIME	YYMMDD	(TRK) CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
		81/4/7				
1	1455	81/4/7	180.3	7.9		S.P. 1
	1500		174.1	7.6		SP 2
	1505		174.8	7.4		SP3 (NAV1)
	1510		173.2	7.2		SP4 (NAV2)
	1511		174.9	7.2		SP. 5 (NAV 3)
	1516		175.5	7.4		SP. 6 (NAV 4)
	1521		172.3	7.6		SP. 7 (NAV 5)
	1526		172.2	7.4		SP [illegible] (NAV [illegible])
	1531		174.8	7.4		SP 9 (NAV 7)
	1536		173.3	7.4		SP 10 (NAV 8)
	1541		174.3	7.1		SP 11 (NAV 9)
	1546		178.6	4.6		SP 12 (NAV 10
2/1	1600	81/4/7	105.1	7.2		S.P 1
	1605		102.0	7.6		S.P. 2
	1610		100.9	7.6		S.P. 3
	1615		104.6	9.5		S.P. 4
	[illegible]		105.8	9.1		S.P. 5
	[illegible]		103.6	9.5		SP 6
	1630		102.1	9.2		SP 7
	[illegible]		[illegible]	[illegible]		SP 8
	1640		102.8	8.2		SP 9
	1645		105.1	8.7		SP 10
	1647-1649					
	1650		103.9	8.8		SP11
	1654					
	1655		102.5	9.4		SP12
	1700		107.7	9.8		SP13
	1705		104.0	9.7		SP14
	1710		105.1	9.3		SP15
	1715		101.6	9.7		SP16

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						Beginning magnetics over Gamma Hogs (basaltic ridge)
0.25	R-EDGE			START ROLL 1	(12KHz)	3.5KHZ + EPC1600 Record
				START ROLL 1	(3.5KHZ)	Appox 2KW -
						NOTE: SHOT POINTS ARE OFF FOR 1505 AND 1510 AS SHOTS WERE RECORDED AT 1506 + 1511 AT 1511 SHOT POINTS NOW TWO OFF FROM NAV.
0.25	R-EDGE					SWITCHING TO NAV. SP. ~1609 Switched mags. to half scale
						1637 CHANGE PROGRAM TO TR 3/4 EPC 1600 HAD A TIME DELAY OF 0.06 SEC ADDED Change belt on 3.5KHZ
0.25	TR Center					Change program - 3.5 KHZ
	T Center	to (.125-	.375)			12 KHz program change

4944

SHIP/CRUISE NO./LEG GYRE/81-6/LEG I

CHIEF SCIENTIST A H Bouma

LINE START/END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
2	1720	81/4/7	105.0	9.4		SP 17
	1725	"	101.2	9.2		SP 18
	1730	"	102.2	9.5		SP 19
	1735	"	104.2	9.5		SP 20
	1740	"	102.5	9.3		SP 21
	1745	"	103.4	9.2		SP 22
	1746					
	1750	"	105.3	9.4		SP 23
	1752					
	1755		106.6	9.4		SP 24
	1800		103.9	9.7		SP 25
	1805	"	106.6	9.3		SP 26
	1810	"	103.8	9.5		SP 27
	1815	"	104.	9.7		SP 28
	1820	"	101.7	9.6		SP 29
	1825	"	102.9	9.6		SP 30
	1830	"	~~18.95~~	~~5.6~~		
3/2	1835	"	18.95	5.6		SP 01
	1840	"	18.19	5.5		SP02
	1845	"	20.97	5.5		SP03
	1846	"	20.97	5.5		~~SP04~~
	1850	"	12.94	5.7		SP04
	1855	"	14.61	5.6		SP05
	~~1860~~ 1900	"	9.83	4.9		SP06
	1902	"				
	1905	"	7.25	5.6		SP07
	1906	"				
	1910	"	5.40	5.6		SP08
	1915	"	5.6	5.5		SP09
	1920	"	10.89	5.6		SP10
	1925	"	12.87	5.5		SP11
	1930	"	10.71	5.5		SP12
	1935	"	9.6	5.5		SP13

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
						3.5 program change R-edge
						12.0 pro. ch. chg to R edge
	+R 3/4					3.5 Program change to TR 3/4
	TCENTER					Program change - 12KHz
						end of line 2
	R-edge					3.5 and 12 KHz Program chg R-edge
						1846 Z
	EPC to 0.0delay					Program chg EPC 1600 to 0.0delay
						at 1858 Z
						Paper change on 12.0KHz
						back on at 1906
						12 KHz on line
	TR 3/4 (.0625-.3125)					3.5 KHz Program change

SHIP/CRUISE NO./LEG GYRE / 81-6 / LEG I

CHIEF SCIENTIST A H Bouma

LINE START/END	TIME	YYMMDD	TRK CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
3	1940	81/4/7	95	5.6		SP14
	1945	"	9.1	5.5		SP15
	1950	"	7.2	5.7		SP16
	1955	"	16.5	5.6		SP17
	2000	"	15.8	5.6		SP18
	2005	"	9.3	5.6		SP19
	2007					
4/3	2015					SP1
	2020	81/4/7	115.5	10.7		SP2
	2025	"	103.6	10.8		SP3
	2030	"	105.0	9.8		SP4
	2035	"	104.7	10.1		SP5
	2040	"	95.5	8.7		SP6
	2045	"	119.2	10.8		SP7
	2050	"	114.1	9.3		SP8
	2055	"	122.3	9.8		SP9
	2100	"	116.4	9.3		SP10
	2105	"	96.9	9.6		SP11
	2110	"	60.6	9.4		SP12
	2115	"	68.3	9.0		SP13
	2120	"	90.6	7.6		SP14
	2125	"	105.2	9.0		SP15
	2130	"	61.8	9.5		SP16
	2135	"	58.2	9.8		SP17
	2140	"	62.4	8.7		SP18
	2145	"	67.6	8.5		SP19
	2150	"	68.2	8.9		SP20
	2155	"	53.1	9.2		SP21
	~~2200~~ 2157	"				
	2200	"	54.9	9.4		SP 22
	2205	"	62.6	9.0		SP 23
5/4	2220	"	178.5	8.4		SP 1
	2225	"	178.6	8.92		SP 2

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TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
						E.O.L #3
						B.O.L. #4
			2/1	3.5 KHz		Chg to roll 2 on 3.5 KHZ
						E.O.L 4

3.5 KHZ
sweep 0.25

SHIP/CRUISE NO./LEG GYRE / 81-6 / LEG I
CHIEF SCIENTIST A H BOUMA

LINE START / END	TIME	YYMMDD	TRK CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
5	2230	81/4/7	181.3	6.9		SP # 3
	2235	"	180.3	7.5		SP # 4
	2240	"	181.4	8.0		SP # 5
	2245		177.1	8.7		SP # 6
	2250	"	181.8	8.0		SP 7
	2255	"	180.2	7.8		SP 8
	2257	"				
	2300	"	178.0	8.7		SP 9
	2303	"				
	2305	"	73.21	9.3		SP 10
6	2310	"	72.88	8.8		SP 1
	2315	"	83.34	9.0		SP 2
	2320	"	92.49	9.3		SP 3
	2325	"	72.42	8.9		SP 4
	2330	"	80.98	8.7		SP 5
	2335	"	83.78	9.2		SP 6
	2340	"	78.46	9.1		SP 7
	2345	"	77.40	8.7		SP 8
	2350	"	79.19	8.9		SP 9
	2355	"	75.91	9.1		SP 10
	0000	"	78.16	9.1		SP 11
	0005	81/ "	77.12	8.9		SP 12
	0010	"	76.67	8.9		SP 13
	0015	"	85.33	9.2		SP 14
	0020	"	81.83	8.2		SP 15
	0025	"	79.13	9.1		SP 16
	0030	"	75.74	8.7		SP 17
	0035		89.36	8.8		SP 18
	0036					
	0040		85.42	8.9		SP 19
	0045		81.42	8.3		SP 20
	0050		78.67	9.1		SP 21
	0055		72.03	8.6		SP 22

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
						@2336 Wrong program
						change on 3.5KHZ
						@2344 program change 0.1
						12KHZ @ [illegible]
						EPC 1600 .08 sec. [illegible]
						12 KHZ chg to TR center
						3.5 chg to TR center
						Change belt on 3.5KHZ
						changing mini 3.5KHz delay .20 sec.
						change 12KHZ at 2308 to
						TR edge - EOCS
					2342Z	chg 12KHZ to TR center
						chg 3.5 KHZ to TR center
						chg delay to 0.1 sec on
						mini 3.5
						2350 program chg to R edge
						on 12 KHZ
						2347 program chg error
					NOTE:	Transmit problems with nav.
						had delay in dot point signals
						first signals are manual
						ones
						12KHZ change to R center
						chg mini 3.5 delay to .20 sec

switch to R edge on 12 & 3.5Khz

SHIP/CRUISE NO./LEG GYRE / 81-6 / LEG I

CHIEF SCIENTIST A H Bouma

LINE START / END	TIME	YYMMDD	TRK CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
6	0100	81/4/7	76.95	9.1		SP 23
	0105	"	75.83	8.7		SP 24
	0110	"	79.00	9.0		SP 25
	0115	"	84.14	8.8		SP 26
	0120		71.92	8.6		SP 27
	0125	"	71.43	8.9		SP 28
	0130	"	80.41	8.9		SP 29
	0135	"	75.67	8.7		SP 30
	0140	"	74.93	8.4		SP 31
	0145	"	73.88	8.7		SP 32
	0150	"	90.53	8.9		SP 33
	0155	"	78.73	8.8		SP 34
	0200	"	80.89	8.9		SP 35
	0205	"	67.88	8.6		SP 36
	0210	"	92.09	8.4		SP 37
	0215	"	75.80	8.5		SP 38
	0220	"	87.51	9.4		SP 39
	0225	"	84.78	9.0		SP 40
	0230	"	79.20	8.9		SP 41
	0235	"	76.04	8.6		SP 42
	0240	"	76.17	8.9		SP 43
	0245		81.0	8.5		SP 44
	0250	"	74.81	8.8		SP 45
	0255	"	59.40	8.7		SP 46
	0300	"	82.23	9.0		SP 47
7	0310	"	5.19	9.09		SP 01
	0315	"	4.27	6.6		SP 02
	0320	"	1.69	8.0		SP 03
	0325	"	3.35	8.8		SP 04
	0326					
	0326					
	0330	"	5.1	7.2		SP 05
	0335	"	0.55	8.8		SP 06

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
						chg. 3.5 KHz to +R/4 at 0114
						12 KHz chg to +R centr. at 0116
						chg 12 khz to R edge at 0123
						chg belt on 3.5 khz at 0126
						chg 3.5 mini khz to .05 at 0130
						chg 3.5 khz to +R3/4
						at 0130 Z
		3.5 khz				belt change at 0232
		3.5 mini khz				belt chg at 0236
						end of line 6
	TR3/4/Redge	3.5 khz				
		3.5 mini KHz				chg to 0.0 dly

4

SHIP/CRUISE NO./LEG GYRE /81-6/ LEG I

CHIEF SCIENTIST A H BOUMA

LINE START/END	TIME	YYMMDD	TRK CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
7	0340	81/4/7	3.80	6.7		SP 7
	0345	"	2.86	7.7		SP 8
	0350	"	0.82	8.0		SP 9
	0355	"	14.46	6.2		SP 10
	0357	"	end of line 7			
8/7	0405	"	10.0	9.3		SP 1
	0410	"	93.1	8.8		SP 2
	0415		91.4	8.3		SP 3
	0420	"	89.0	4.7		SP 4
	0423	"				
	0425	"	99.84	8.6		SP 5
	0430	"	90.01	7.5		SP 6
	0435	"	82.2	8.3		SP 7
	0440	"	91.8	8.5		SP 8
	0445	"	86.67	7.9		SP 9
	0450	"	96.97	9.0		SP 10
	0455	"	92.[illegible]	8.2		SP 11
	0500	"	77.68	7.6		SP 12
	0505	"	66.67	7.7		SP 13
	0510		69.58	7.5		SP 14
	0515	"	91.15	8.0		SP 15
	0520	"	88.41	7.8		SP 16
	0525	"	98.73	8.3		SP 17
	0530	"	77.31	7.7		SP 18
	0535	"	80.55	8.1		SP 19
	0540	"	98.44	7.6		SP 20
	0544	"	90.52	8.0	end of line 8	SP 21
9/8	0550	"	174.6	8.0		SP 01
	0555	"	178.8	6.0		SP 02
	0600	"	173.5	7.08		SP 03
	0605	81/4/8	188.3	4.3		SP 4
	0607	"				2.5 K/hr
	0610	"	173.0	6.7		SP 5

AREA
TIME ZONE

SWP	old / new PROGRAM / SCALE	System FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						end of line 7
	DELAY 0.00 / 0.05	3.5 mini				program change
	0421 off	3.5 mini				paper changed
	[illegible] back on					
						end of line 8
	R-EDGE/TR 3/4					Program change 35 KHz

SHIP/CRUISE NO./LEG GYRE / 81-6 / LEG I

CHIEF SCIENTIST A H Bouma

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
9	0615	81/4/8	172.6	8.2		SP6
9	0616	"				3.5 kHz
	0620	"	171.1	7.3		SP7
	0625	"	171.2	7.2		SP8
	0630	"	173.2	7.5		SP9
	0634	"				EPC 1600
	0635	"	167.9	8.2		SP10
	0638	"				EPC 1600
	0640	"	176.6	5.9		SP11
	0641	"				EPC 1600
	064	"				12 KHz 3.5 KHz
	0645	"	166.9	6.4		
	0647	"				12 KHz
10/9	0655	"	67.4	8.0		SP1
	0700	"	52.4	8.8		SP2
	0705	"	62.7	8.1		SP3
	0708	"				all system
	0710	"	60.3	8.3		SP4
	0715	"	78.2	8.6		SP5
	0720	"	67.6	8.3		SP6
	0725	"	73.5	8.3		SP7
	0727	"				Magnetometer
	0730	"	58.3	8.5		SP8
	0733	"				magnetometer
	0735	"	62.0	8.7		SP9
	0740	"	57.7	8.1		SP10
	0745	"	55.5	9.0		SP11
	0747	"				magnetometer
	0750		66.9	7.9		SP12
	0754	"				3.5 KHz
	0755	"	50.1	8.8		SP13
	0757	"				3.5 KHz
	0800	"	57.2	8.5		SP14

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
	TR-3/4					Prog. change
						TIME DELAY ADDED - 0.04
						TIME DELAY ADDED - 0.06
						TIME DELAY ADDED - 0.09
	e CENTER TR CENTER					PROGRAM CHANGE - 12.0 KHz 3.5 KHz
						E.O.L. #11
						PAPER CHANGE - SP #2 BEGINS
						S.O.L. #10
						Records missing - due to
						state of seas
						Shutdown - paper change
						back on line
						ON - OFF - ON
						OFF - Belt change
						ON - Belt change [illegible]

SHIP/CRUISE NO./LEG GYRE / 81-6 / LEG I

CHIEF SCIENTIST A H BOUMA

LINE START/END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
10	0805Z	81/4/8	64.8	8.5		SP 15
	0805	"				3.5 KHz
	0808	"				3.5 KHz
	0810	"	65.1	8.3		SP 16
	0810	"				Magnetometer
	0812	"				Magnetometer
	0815	"	71.4	8.4		SP 17
	0820	"	49.4	9.0		SP 18
	0824	"				Magnetometer
	0825	"	59.0	8.5		SP 19
	0825	"				Magnetometer
	0830	"	61.3	8.5		SP 20
	0835	"	66.5	8.0		SP 21
	0840	"	65.7	8.5		SP 22
	0845	"	67.8	8.0		SP 23
	0850	"	73.7	8.6		SP 24
	0855	"	42.2	9.2		SP 25
	0900	"	64.6	8.0		SP 26
	0905	"	55.1	8.5		SP 27
	0906	"				12 KHz
	0910	"	56.4	9.2		SP 28
	0914	"				12 KHz
	0915	"	74.0	8.8		SP 29
	0920	"	62.2	8.7		SP 30
	0925	"	69.6	8.5		SP 31
	0930	"	58.5	8.7		SP 32
	0935	"	64.1	8.6		SP 33
	0938	"				12 KHz
	0940	"	60.3	8.6		SP 34
	0945	"	70.2	8.3		SP 35
	0950	"	60.5	8.5		SP 36
	0955	"	66.7	8.7		SP 37
	0957	"				EPC 1600

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
						OFF - BELT CHANGE
						ON - Belt change completed
						R10 OFF LINE
						ON LINE
						OFF - Paper stretching
						ON - line
						OFF - PAPER TEAR
						ON line
						ON line
						DELAY changed to 0.06

SHIP/CRUISE NO./LEG GYRE / 81-6 / LEG 1

CHIEF SCIENTIST D H Bouma

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
-10-	1000	81/4/8	65.3	8.4		SP 38
	1005	"	62.6	8.9		SP 39
	1010	"	61.1	8.4		SP 40
	1015	"	66.9	8.6		SP 41
	1020	"	73.9	8.6		SP 42
	1025	"	76.3	8.7		SP 43
	1030	"	54.3	9.2		SP 44
	1035	"	46.5	9.3		SP 45
	1040	"	44.6	9.6		SP 46
	1045	"	70.1	8.8		SP 47
	1050	"	67.1	9.0		SP 48
	1055	"	63.9	9.1		SP 49
	1100	"	62.3	8.6		SP 50
	1105	"	62.4	9.1		SP 51
	1110	"	59.6	9.0		SP 52
	1115	"	61.1	9.3		SP 53
	1120	"	57.5	8.9		SP 54
	1125	"	60.6	8.4		SP 55
	1130	"	59.2	8.8		SP 56
	1135	"	62.5	9.1		SP 57
	1140	"	60.7	8.6		SP 58
	1145	"	60.1	9.4		SP 59
	1150	"	60.7	9.0		SP 60
	1155	"	61.8	8.5		SP 61
	1200	"	61.6	8.5		SP 62
	1205	"	56.2	9.3		SP 63
	1205	"				12 KHz
	1205	"				3.5 KHz
	1210	"	61.5	8.9		SP 64
	1212	"				12 KHz
	1212	"				3.5 KHz
	1214	"				3.5 KHz
	1215	"	62.6	8.8		SP 65

AREA ______________________

TIME ZONE ______________________

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
	TR Cent.					Program change
	TR Cntr					Program change
	TR EDGE					Program change
	TR 1/4					Program change
	TR EDGE					Program change

SHIP/CRUISE NO./LEG GYRE/81-6/LEG 1

CHIEF SCIENTIST A H BOUMA

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
-10-	1220	81/4/8	60.1	9.2		SP66
	1225	"	60.7	9.1		SP67
10	1205	"				EPC 1600
	1208	"				EPC 1600
	1210	"				EPC 1600
	1213	"				EPC 1600
	1214	"				EPC 1600
	1230	"	59.8	9.2		SP 68
	1235	"	60.1	8.9		SP 69
	1237					3.5 KHz
	1239	"				12 KHz
	1240	"	65.3	9.0		SP 70
	1240	"				EPC 1600
	1245	"	63.1	8.8		SP71
	1245	"				3.5 KHz
	1245	"				EPC 1600
	1250	"	61.7	8.9		SP72
	1252	"				12 KHz
	1255	"	65.3	9.3		SP73
	1300	"	63.8	8.9		SP74
	1305	"	65.3	9.1		SP75
	1304	"				EPC 1600
	1307					12 KHz
	1310	"	64.3	8.8		SP76
	1314	"				3.5 KHz
	1315	"	64.9	8.7		SP77
	1320	"	62.3	9.3		SP78
	1325	"	63.0	9.0		SP79
	1330	"	63.4	9.3		SP80
	1335	"	62.1	9.1		SP81
	1331	"				EPC 1600
	1340	"	67.3	8.9		SP82
	1341	"				3.5 KHz

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
	Delay 0.12sec					Prog. change
	Delay 0.18sec					" "
	Delay 0.25sec					" "
	" 0.31					Machine stopped
	Delay 0.25sec					Prog. change
0.25	TGR 3/4					program change
0.25	TTR Centr					program change
0.5	Delay 0.R					Prog. change
	TRG 1/4					program change
0.5	Delay 0.25					" "
0.25	TTRR Centr					program change
0.15	Delay 0.3 B					Prog. change
	TTTRRR Centr					prog change
0.25	TR Centr					prog change
0.5	Delay 0.5					Prog. change
0.25	TR EDGE					program change

SHIP/CRUISE NO./LEG GYRE /81-6/ LEG I

CHIEF SCIENTIST A H Bouma

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
10	1341	81/4/8				12KHz
	1345	"	63.0	9.2		SP 83
	1349	"				3.5 KHz
	1350	"	56.8	8.8		SP 84
	1351					EPC 1600
	1355	"	60.8	8.6		SP 85
	1356	"				12KHz
	1356	"				3.5 KHz
	1400	"	61.5	8.8		SP 86
	1400	"				12KHz
	1405	"	62.7	9.1		SP 87
	1406	"				
	1410	"	65.4	9.3		SP 88
	1415	"	62.0	9.5		SP 89
	1420	"	59.9	9.3		SP 90
	1422	"				3.5 kHz
	1422	"				12 KHz
	1425	"	57.6	9.3		SP 91
	1430		65.4	9.2		SP 92
	1431	end of line	10			
11	1435	"	7.09	6.6		SP 01
	1435	"				EPC 1600
	1435	"				3.5 KHZ
	1440	"	4.90	6.1		SP 02
	1445	"	0.7	6.7		SP 03
	1450		0.6	6.3		SP 04
	1454	"				3.5 KHZ
	1455		3.79	5.7		SP 5
	1456					12 KHZ
	1500		2.45	6.0		SP 6
	1505		359.2	6.9		SP 7
	1506					1600 EPC
	1508					12 KHZ

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
	TTRRR-EDGE					Program change
	TR CENTER					Program change
						Be H change
	TTRR EDGE					program change
	TGR EDGE					program change
	TTRR Center					program change
	TGR Center	3.5 Khz				pr. change
	1407 min	2.5 Khz	0.3	delay		
from	TTRR center to TGR 3/4					pr. change
from	TTRR cent to TR edge					pr. change
	delay to .10 sec					pr. change
	chg to TR edge					pr. change
	change to TR 3/4					program change
	change to R. edge					pr. change
	change delay to 0					" "
						change test

SHIP/CRUISE NO./LEG

CHIEF SCIENTIST

LINE START / END	TIME	YYMMDD	TRK CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
11	1510	81/4/8	1.29	6.3		SP 8
	1511	"				3.5 KHz
	1514	"				1600 EPC
	1515	"	357.3	7.2		SP 9
	1518	"				1600 EPC
	1520	"	359.0	6.3		SP 10
	1525	"	359.2	5.2		SP 11
	1530	"	2 NS	system down		SP 12
	1535	"	"			SP 13
	1540	"	"			SP 14
	1545	"	"			SP 15 end of line 11
12	1550		77.50	8.5		SP 1
	1550					1600 EPC
	1553					3.5 KHz
	1555		71.02	7.7		SP 2
	1600		69.28	8.0		SP 3
	1605		72.52	8.11		SP 4
	1610		61.53	7.7		SP 5
	1615		73.84	7.9		SP 6
	1617					3.5 KHz
	1620		74.80	8.6		SP 7 (Navigation SP 6)
	1619					1600 EPC
	1625		67.60	8.1		SP 8
	1630		71.17	8.6		SP 9
	1635		65.81	8.1		SP 10
	1635					1600 EPC
	1640		77.36	8.5		SP 11
	1645		81.87	8.6		SP 12
	1647					3.5 KHz
	1650		73.4	8.3		SP 13
	1655		68.1	7.9		SP 14
	1700		67.4	8.3		SP 15
	1705		53.8	9.1		SP 16

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
	to R edge					pr. change
	change sweep	speed to		0.25 sec		"
	change delay to			0.3		"
	INS system [illegible]		no track speed			
	chg delay to 0.03					"
	paper change					
	to TR[illegible]					program change
	change delay to 0.10					"
	change delay to .00					"
	belt change					

SHIP/CRUISE NO. /LEG

CHIEF SCIENTIST

LINE START / END	TIME	YYMMDD	TPR CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
12	1710	8/4/8	69.25	8.3		SP 17
	1715	"	66.6	8.4		SP 18
	1720	"	61.62	8.5		SP 19
	1725	"	73.54	8.6		SP 20
	1730	"	67.6	8.3		SP 21
	1735	"	70.43	8.6		SP 22
	1740	"	55.7	8.2		SP 23
	1742	"				EPC 1600
	1745		72.4	7.9		SP 24
	1750	"	77.8	7.8		SP 25
	1755	"	75.9	7.7		SP 26
	1800	"	59.3	7.5		S 27 EPC 1600
	1805	"	50.3	7.0		SP 28
	1810	"	64.7	7.9		SP 29
	1810					3.5 KHZ
	1811					EPC 1600
	1815	"	66.88	7.6		SP 30
	1819	"				12 KHZ
	1820		65.3	8.0		SP 31
	1820	end	of line	12		
13						

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
	Change delay to	.04	sec &	Change		fuse
	Change	delay	to	.08	sec	
	change	to TR 1/4				per change
	change	delay	to	.16	sec.	per
	change	from R-edge	to	TR 1/2		per change

SHIP/CRUISE NO./LEG GYRE/8-6 I/I

CHIEF SCIENTIST Bouma

LINE START/END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
218	1/0008Z	810408	58.	5.5	INS	12 KHz
218	1/0008Z		58	5.5	"	Air Guns 40 + 5
218	1/0008Z		58	5.5		3.5 kHz
218	1/0008Z		58	5.5		Sparker
218	1/0008Z		58	5.5		3.5 kHz FPC 1000
218	1/0008Z		58	5.5		Air Guns (Dup.)
218	1/0008Z		58	5.5		Sparker (Dup.) WITH SEA MAC
	10/0026		38	5.7		
	20/0042Z		44	6.4		
	24/0048Z		43	6.4		3.5 kHz
	26/0051Z					3.5 kHz (Dup)
	32/0110Z		46	6.7		
	45/0120Z		39	7.0		
	58/0140Z		44	6.3		
	60/0142Z		50	6.1		3.5 kHz (Dup)
	70/0200Z		45	6.1		
		0221				PROG CHANGE 3.5 KHZ
	88/0224					
	90/0226Z		52.7	6.2		Sparker
	98/0237Z		51	6.0		Sparker
	100/0242		34	6.4		
	0241					3.5 KHz mini sparker
	0246					12 KHz BATHY
	0313					3.5 KHz mini sparker
	0328					3.5 KHz
	0347					3.5 KHz mini sparker
	0350					3.5 KHz
	0401					3.5 KHz mini sparker
	0356					12 KHz
	0349					3.5 KHz
	0402					3.5 KHz mini sparker
	0403					3.5 KHz mini sparker
	0431		41.0	7.4		

AREA LAMAL OCS

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
.25	TR-Edge 0.0-0.025		NO	/		SOL #218
2.0	H.O Fire	200/100	/	/		SOL #218
.25	TGR-3/4 0.0625 0.3125		/	/		SOL #218
1.0	R-Edge	1500/500	/	/		SOL #218
.25	Delay 0.35		/	/		SOL #218
2.0	4.0 Fire	200/80	/	/		SOL #218
1.0		1200/240	/	/		SOL #218
						Spd + Hdg
						Spd + Hg
						Belt Change
						Belt Change
						Spd - Hdg
						Hdg - Spd
						Hdg - Spd
.25	Delay .25					Prog. Change
						Hdg - Spd
.25	TR 1/4 .1875 .4375					Prog. Change
						Slow to Clip Sparker Tips
						Start sparker
	Delay .20					Program Chang
	FROM TR EDGE TO TR CENTER					PROGRAM CHANGE
	Delay to 0.45					Program change
	TR CTR .125 .375					Prog. CHANGE
	DELAY .10					Program change
						Bell change
	DELAY .05					Program Change
	R EDGE					PROG CHANGE
	FROM TR CENTER TO TR 3/4					" "
				3/1		Program Change
						ON Line
						E.O.L 218

SHIP/CRUISE NO. / LEG G-RE / 81-6 / LEG 1

CHIEF SCIENTIST A. H. BOUMA

LINE START / END	SP / TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
218	175 / 0434z	810409	41.0	7.4	I.N.S.	3.5 kHz EPC 1600 (dup)
218						Sparker (Dup)
218						Air Gun (Dup)
218						12 kHz
218						Airguns (40 + 5)
218						3.5 kHz
218						Speaker
110	1 / 0608	81/4/9	312	7	"	3.5 KHz EPC 1600
110	1 /	"				Speaker (dup)
110	1 /	"				Airgun (dup) (5 IN³)
110	1 /	"				Speaker
110	1 /	"				3.5 kHz
110	1 /	"				Airgun (5 IN³)
110	1 /	"				12 KHz
	0613					
110	10 / 0619	"	310	7.3		
110	20 / 0631	"	313	7.0		
110	30 / 0645	"	320.7	8.1		
110	40 / 0659	"	321.7	8.2		
110	50 / 0712	"	312.2	6.1		
110	60 / 0726	"	313.5	6.2		
110	70 / 0740	"	314.8	6.6		~~turn off mini 3.5 kHz at~~
110	80 / 0754	"	319.7	8.4		~~0729 SP 62~~
110	90 / 0807	"	323.2	8.8		
110	100 / 0821	"	319.9	8.0		
110	110 / 0835	"	319.2	7.1		
110	120 / 0849		320.0	8.1		
110	130 / 0903		318.5	7.3		
110	140 / 0916		313.0	6.4		
110	150 / 0930		315.1	8.0		
110	160 / 0944		316.7	6.3		
110	170 / 0958		312.4	6.4		

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
0.25	Delay 0.05	—				E.O.L. 218
1.0		1200/240		2/1		E.O.L. 218
2.0	Fire 4.0	200/80				E.O.L. 218
0.25	R-Edge 0.0-0.25					E.O.L. 218
2.0	4.0 Fire	200/100				E.O.L 218
0.25	TR 3/4			2/1		E.O.L 218
1.0	R-Edge	1500/200		2/1		E.O.L 218
0.25	-0-	—				S.O.L. 110
1.0		1200/240				S.O.L 110
2.0	FIEL 2.0	200/80				S.O.L 110
1.0	R-EDGE	1500/200				S.O.L 110
0.25	R-EDGE					S.O.L 110
2.0	2.0 FIRE	200/100				S.O.L 110
0.25	R-EDGE					S.O.L 110
						tape on at SP5
						mini 3.5 Khz turned
						off at 0729 SP62 for
						repair
						mini 3.5 KHZ
						back on line at
						0753 SP79
						mini 3.5 KHZ down at
						SP 95
						SP 126-132 auto gain control
						off on mini speaker
						Mini 3.5 KHZ back on at 0912
						SP137

SHIP/CRUISE NO./LEG Gyre 81-6 Leg I

CHIEF SCIENTIST Arnold H. Bouma

LINE START/END	TIME (SP)	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
110	180/1011	81/04/09	312	6.8	FIXS	
110	190/1025	"	327.4	8.7		
110	200/1039	"	314.0	5.6		
110	209/1050		316			3.5 KHZ EPC 1600
110						Sparker (dup)
110						Airgun (dup) (5 in³)
110						Sparker
110						3.5 KHZ
110						Airgun (5 in³)
110						12 KHZ
						3.5 KHZ EPC 1600
						Sparker (dup)
						Airgun (dup) (5 in³)
						Sparker
						3.5 KHZ
						Airgun (5 in³)
						12 KHZ
204	1/1149	81/04/09	20.4	8.2		
204	10/1202	"	43.3	7.0		
204	20/1217	"	46.7	6.1		
204	30/1232	"	44.6	6.3		
204	40/1247	"	45.7	6.6		
204	50/1302	"	34.7	7.0		
204	60/1317	"	59.7	6.1		
204	70/1332	"	47.7	6.2		
204	80/1347		41.8	6.4		
	1400		45.0	6.2		3.5 KHz
	1402					3.5 KHz

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
	0 delay					E0L 110
	1.0 sec					E0L 110
	2 sec					E0L 110
	1 sec	1500/200				E0L 110
	R edge					E0L 110
	2 sec	200/100				E0L 110
	R edge					E0L 110
	0 delay					S0L 204
	1.0 sec					S0L 204
	2 sec					S0L 204
	1 sec	1500/200				S0L 204
	R. edge					S0L 204
	2 sec	200/100				S0L 204
	R. edge					S0L 204
						5-3 Air gun down 11.50 3 springs
						air gun back on 11.52
						gun chg on 12 Khz
						-6 Vdc low
						change airgun from 40 ci to
						50 ci, 2 sec sweep
					13127	chg dep spark to 1/2 sec
						sweep
					13167	chg spark to 1/2 sec fine
					13207	" " " 1/4 sec sweep
					13217	" " " 1/2 " "
						bell change -OFF
						ON line

SHIP/CRUISE NO./LEG GYRE / 81-6 I / I

CHIEF SCIENTIST Bowen

LINE START / END	SP TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
204		81/4/9				
	93 1408	"	45	6.0		3.5 kHz
	151 1540Z	"	34	5.9	—	
	162 1600Z	"	35	6.2		
	160222	"				3.5 KHz
	160528					3.5 KHz
204	201 1503Z		45	6.5		3.5 kHz (Dup) Sparker 1600
204						Sparker (Dup) Seamac
204						Air Gun (Dup) Scrin.
204						Sparker
204						3.5 kHz
204						Air Gun Scrin
204						12 kHz
TRANSIT TO Line 102						
1	1715	81/4/9	256	7.6	LA 30. 10 .56 LO 88 19 .91	3.5 KHz 12 KHz
2	1730	"	260	7.3	LA 30 10 .55 LO 88 22.03	3.5 KHz 12 KHz
3	1745	"	273	7.2	LA 30 10 .56 LO 88 24.10	3.5 KHz 12 KHz
4	1800	"	273	7.0	LA 30 10.70 LO 88 26.15	3.5 KHz 12 KHz
5	1815	"	269	7.2	LA 30 10.82 LO 88 28.31	3.5 KHz 12 KHz
6	1830	"	270	7.4	LA 30 10 .93 LO 88 30 .43	3.5 KHz 12 KHz
7	1845	"	268	7.6	LA 30 10 .94 LO 88 32 .54	3.5 KHz 12 KHz
8	1900	"	268	7.2	LA 30 10 .96 LO 88 34 .75	3.5 KHz 12 KHz
9	1913	"	260	7.2	LA 30 10 .85 LO 88 36 .92	3.5 KHz 12 KHz
102	1922	81/4/9	6.0	136		3.5 KHz Minisparker
102		"				Sparker (dup)
102		"				Airgun (dup)
102		"				Sparker
102		"				3.5 KHz
102		"				Airgun 5 cu in
102		"				12 kHz
	2034	"				3.5 KHz

AREA LAMAL

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START/END	DATA ROLL# START/END	MAGNETICS	COMMENTS
						Both change
						Hdg Spd
						Hdg - Spd
				3/2		paper change - OFF
						ON line
0.25	Delay 0.0			3/2		EOL. 204 paper change
0.25		1200/240				EOL 204
2.0	Fire 4.0	200/80				EOL 204
0.5	R-Edge 0.0-0.5	1500/200				EOL 204
0.25	R-Edge 0-0.25					EOL 204
2.0	Fire 4.0	200/100				EOL 204
0.25	R-Edge 0-0.25			2/1		EOL 204 paper change
0.25	Delay 0.0					S.O.L 102
0.25		1200/240				S.O.L 102
2.0	Fire 4.0	200/80				S.O.L 102
0.5	R-EDGE (0-0.25)					S.O.L 102
0.25	REDGE (0-0.25)					S.O.L 102
2.0	Fire 4.0	200/80				S.O.L 102 (not in use)
0.25	R-EDGE (0-0.25)					S.O.L 102
						Dell [illegible]

SHIP/CRUISE NO./LEG GYRE / 81-6/

CHIEF SCIENTIST D. [illegible]

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
	2037	81/4/9				3.5 KHZ
	2039	"				Sparker (dup)
	2040					"
	2054		136	5.4		Sparker
	2130	"	137.0	5.9		
102	2157	SP 95 "	129.9	5.5		
102	2205	SP 100 "	143.1	6.1		
102	2213	SP 105 "	140	5.9		
102	[illegible]	SP 110 "	144	6.3		
	2221					airgun
	2226					
	[illegible]	"				3.5 KHZ
						3.5 KHZ
102	[illegible]19	SP[illegible]	143	6.8		
102	[illegible]6	[illegible]	141	6.3		
102	[illegible]	SP 126	136	5.9		
102	[illegible]	2130	135	6.2		
102	2259	SP 135	132	6.1		
102	2301	136 DC	132	6.0		
102						3.5 KHZ EPC 1600
102						Sparker (dup)
102						airgun (dup) (Sm³)
102						Sparker
102						3.5 KHZ
						airgun (Sm³)
						12 KHZ

AREA LAmal

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
						OH line
						OFF line [illegible]
						on line
						Belt change
						Spot TRK check
						Argon [illegible] at SP 107
						Argon [illegible] on line
						SP 113 chng belt on
						3.5 KHz
						back on line at SP 119
.25	Delay 00					EOL 102
	1 sec sweep					EOL "
	2 sec sweep					EOL "
	R edge					EOL "
	R edge					EOL "
	2 sec sweep					EOL "
	R edge					EOL "

SHIP/CRUISE NO./LEG GYRE/81-6I/I

CHIEF SCIENTIST Bowen

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
EOL 102		8[illegible]				3.5 KHZ EPC 600
EN 102						Sparker (deep)
102						Airgun (deep) (5 in³)
102						Sparker
102						3.5 KHZ
102						Airgun (5 in³)
						12 KHZ
208						3.5 KHZ EPC 600
208						Sparker (deep)
208						Airgun (deep) (1 in³)
208						Sparker
208						3.5 KHz
208						Airgun (1 in³)
208						12 KHz
208	1 2346	8/4/[illegible]	229	6.6		
208	5 [illegible]	"	215	6.6		
208	10 0000	"	216	6.9		
208	[illegible]	"	226	6.7		
208	20 0015	"	227	6.0		
208	25 0022	"	225	6.9		
208	30 0030	"	224	6.4		
208	[illegible] 0031	"	220	6.4		
	0031					3.5 [illegible] hull charge
	0032					" " back on
208	[illegible] 0040	"	222	7.0		
208	45 0052	"	226	6.5		
	0053					deep [illegible]
208	50 0059	"	225	6.3		
208	55 0106	"	227	6.2		
208	60 0114		228	6.1		
208	65 0121		228	6.6		
208	[illegible] 0128		[illegible]	7.2		

AREA LAMA L

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
.25	[illegible]	—				EOL 102
	1/2 sec swp	1200/240				"
	2 sec swp	200/80				"
	R edge	1500/200				
	R edge					
	2 sec swp	200/100				
	R edge					
.25	delay 00					SOL 208
	1/2 sec. SW	1200/240				"
	2.0 sweep	200/80				"
	R Edge					"
	[illegible]					"
	2.0 sec. sweep	200/100				"
	R edge					"
						Paper [illegible]

SHIP/CRUISE NO./LEG GYRE / 81-6 I / I

CHIEF SCIENTIST Bouma

LINE START / END	TIME (SP)	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
[illegible]	75 / 1355	81/[illegible]	224	7.4		
208	80 / 0143	"	222	7.5		
208	85 / 0150	"	222	7.3		
	0147	"				3.5 KHz
	0151	"				3.5 KHz
208	90 / 0157		225	7.2		
208	0158					3.5 KHz
	0200					3.5 KHz
208	95 / 0204		230	6.8		
208	100 / 0211		224	7.3		
208	105 / 0218	"	238	5.8		
208	110 / 0225	"	226	6.7		
208	115 / 0232	"	224	5.8		
208	120 / 0239	"	235	6.3		
208	125 / 0246	"	230	6.4		
208	130 / 0254	"	230	5.9		
208	135 / 0301	"	219	7.8		
	0301	"				Air gun dep
	0303	"				"
208	140 / 0308	"	222	6.7		
208	145 / 0315	"	235	6.6		
208	150	"				
	0316	"				Minisparker
	0319	"				Airgun dep
208	155 / 0322	"	217	6.7		
	0321					Airgun dep
208	155 / 0329	"	234	6.0		
	0324					minisparker
208	160 / 0335	"	239	6.4		
208	165 / 0342	"	220	7.3		
208	170 / 0349		230	6.6		
	0350					3.5 KHz Mini
	0351					" "

AREA LAMAL

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
						repair chutter
						back on line SP 85
						belt change
						back on line
						replace belt
						back on line.
						advance for paper tear
						off for repair
						back on
						Change electrode
						Change belt
						back on

SHIP/CRUISE NO./LEG GYRE/81-6/I

CHIEF SCIENTIST Bowne

LINE START/END	SP/TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
208	175/0356	81/4/9	235	7.5		
	0358	"				airgun deep
	0359	"				"
208	180/0403	"	230	6.6		
208	185/0411	"	228	7.4		
208	[illegible]/0417	"	221	6.3		
	0420					airgun
208	195/0424	"	202	7.8		
208		"				
	0428	"				mini gun deep
	0430	"				"
208	200/0432	"	202	7.7		
208	205/0440	"	232	7.2		
	206/0442	"				3.5 belt charge
208	[illegible]/0445	"	242	6.7		
208	215/0453	"	236	5		
208	220/0459	"	220	7.4		
208	[illegible]/0506	"	241	6.3		
208	230/0512		221	6.9		
	0515					Sparker
	0520					"
208	[illegible]/0521		205	8.0		
208	240/0528		214	7.3		
	0532					Sparker
208	245/0535		220	6.5		
208	250/0542		216	7.3		Sparker
208	[illegible]/0548		224	6.4		
208	260/0555		234	8.2		

AREA LAMAL

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						off for repair
						back on
						change belt
						tore paper - down for change
						back on line
						change belt and
						change paper - back on
						off - clip tape
						back on 0542

SHIP/CRUISE NO./LEG GYRE/81-6/I

CHIEF SCIENTIST Bowen

LINE START / END	SP / TIME	YYMMDD	CRS/HDG (TRUE)	SPD	NAVIGATION	SEISMIC SYSTEM
208	305 / 0700	810410	218	6.9	I.N.S.	3.5 KHz (Dup)
208	305 / 0700Z					Sparker (Dup)
208	305 / 0700Z					Air Gun (Dup) 1 IN³
208	305 / 0700Z					Sparker
208	305					3.5 KHz
208	305					Air Gun 1 in³
208	305					12 KHz
	TRANS 2 TO		LINE 116			FROM LINE 208 TO LINE 116
			TRANSIT 2			
1	720	81/4/10	55.3°	7.7	LA 29 21 .02 LO 88 57 .18	12 KHZ STARTED
2	730	81/4/10	2.0°	7.8	LA 29 21 .93 LO 88 56 .51	3.5 KHz STARTED 12.0 KHz
3	745	81/4/10	5.1°	6.3	LA 29 23 .60 LO 88 56 .34	3.5 KHz 12 KHz
4	800	81/4/10	3.8°	7.6	LA 29 25 .15 LO 88 56 .20	3.5 KHz 12 KHz MINISPARKER STARTED
5	815	81/4/10	3.0°	6.2	LA 29 26 .83 LO 88 56 .15	3.5 KHz 12 KHz MINISPARKER
6	830	81/4/10	5.8°	5.0	LA 29 28 .47 LO 88 56 .11	3.5 KHz 12 KHz MINISPARKER ENDED
7	845	81/4/10	4.6°	7.8	LA 29 30 .19 LO 88 56 .03	3.5 KHz 12 KHz
8	900	81/4/10	0.6°	5.2	LA 29 31 .86 LO 88 55 .98	3.5 KHz 12 KHz
9	915	81/4/10	0.8°	8.2	LA 29 33 .59 LO 88 56 .07	3.5 KHz 12 KHz
10	930	81/4/10	345°	5.9	LA 29 35 .03 LO 88 56 .37	3.5 KHz 12 KHz
11	945	81/4/10	190°	7.0	LA 29 35 .80 LO 88 55 .84	3.5 KHz END 12 KHz END
116	0950	81/4/10	150.0	6.7		3.5 KHz (Dup)
116	"					Sparker (Dup)
116	"					Air gun (dup) (1 in³)
116	"					Sparker
116	"					3.5 KHz
116	"					Air gun 1 in³
116	"					12 KHz
	0955					Sparker
	12-15					All

AREA LAMAL

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
0.25	Delay 0.0	—				EOL 208
0.5		2500/240				EOL 208
2.0	Fire 4.0	200/80				EOL 208
0.5	R-Edge 0.0-0.5	3200/200	3	Footage	2222	EOL 208
0.25	R-Edge 0.0-0.25		3			EOL 208
2.0	Fire 4.0	200/100	3			EOL 208
0.25	R-Edge 0-0.25		—			EOL 208
0.25	Delay 0.0	—				SOL 116
0.50		2500/240				SOL 116
2.0	Fire 4.0	200/80				SOL 116
.50	R-EDGE	3200/200				SOL 116
.25	R-EDGE					SOL 116
2.0	Fire 4.0	200/100				SOL 116
.25	R-EDGE					SOL 116
		2000/200				Filter change
						No SP's 12:15 mechanical Prob.

SHIP/CRUISE NO./LEG GIRE / 81-6 / LEG I

CHIEF SCIENTIST A H Bouma

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
116	18 / 1013	81/4/10	123	5.9		
	59 / 1103	"	141	7.5		
	86 / 1148	"	133	6.6		Sparker
	133 / 1252	"	135	6.5		
116	185 / 1407		137	6.9		
	1407					3.5
	190 / 1411		140	7.3		
	195 / 1418		140	6.9		
	1421					3.5 KHZ
	1423					1600 EPC
	1424					
116	200 / 1425	"	136	7.3		
	235 / 1432		140	7.1		
	205 / 1433					1/4 sparker
	206 / 1435					12 KHZ
	206 / 1436					3.5 mini
116	210 / 1439		141	7.5		
	210 / 1441					3.5
	211 / [illegible]					12 KHZ
	211 / 1444					3.5
116	21[illegible] / 1446		136	6.6		
	21 / 1446					1/4 sparker
	218 / 1452					1/2 sec sparker long
116	220 / 1454		137	7.3		
	220 / 1455					3.5 KHZ
	220 / 1456					Sparker
	223 / 1458					3.5 mini 1600
116	225 / 1500		131	7.0		
	226 / 1501					12 KHZ
	230 / 1507		146	8		
	231 / 1509					3.5 KHZ
	233 / 1511					3.5 KHZ mini
	235 / 1513		144	6.3		

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
						Hdg Spd
						Hdg. Spd
		2800/150			Prob. w/recorder	Filter change
						Hdg Change
						Belt change
	to TR 3/4					
	delay .05 sec					
						Tape broke.
	delay of 1/8 sec					
	R center					
	.10 delay					
	TR center					
	TR center					
	TR center					
	H delay by .25 sec					
	to 1/4 sec delay					
to TR 1/4						
	TR 3/4					
	delay to .20					
	TR edge					
	TR edge					
delay .30						

SHIP/CRUISE NO./LEG GIRE/81-6/LEG I
CHIEF SCIENTIST AH Bouma

LINE START / END	SP / TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
116	238 / 1517	81/4/0				Sparker
	240 / 1519		134	7.4		
	240 / 1519					3.5 KHZ
	243 / 1523					12 KHZ
116	245 / 1525		133	7.7		
116	250 / 1533		135	6.4		
	252 / 1535					3.5 mini
	251 / 1535					3.5 KHZ
	252 / 1536					Sparker dup
	250 / 1533					mini 3.5 KHZ
	2[illegible] / 1540		142	7.5		
						Sparker
	259 / 1546					5 cu in Airgun
116	260 / 1547		138	7.3		
	[illegible] / 1552					12 KHZ
	260 / 1553					Sparker
	265 / [illegible]		[illegible]	[illegible].3		
	2[illegible] / 1555					12 KH
	266 / 1557					12 KHZ
	267 / 1[illegible]					3.5 KHZ
	268 / 1559					1/4 Mini Sparker
	2[illegible] / 1559					3.5 KHZ
	160 / 1601					3.5 KHZ
116	260 / 1601		139	6.4		
	271 / 1603					3.5 mini KHZ
	271 / 1603					12 KHZ
	271 / 1604					1/4 Sparker
	272 / 1605					Sparker
	273 / 1606					3.5 KHZ
	275 / 1609		134	6.9		
	275 / 1609					1/4 Sparker
	276 / 1610					Airgun
	277 / 1612					Sparker

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
	TR center					
	T & R 3/4					
	TTRR center					
	delay .4					
	TR 1/4					
	delay 1/2 sec					
	0.6 sec delay					
	.25 delay by .45					
						on line
	TTRR edge					
	TR 1/4					
	TTRR center					
	TTRR edge					
	TRR 1/4					
	delay to .50					
	TR 3/4					
	bell chg					
	delay to .07					
	TTTRRR center					
	delay to .06					
	TR edge					
	TR 1/4					
	chg to .1					
	remove 1" gun - add 5 in³					
	T & R 3/4					

SHIP/CRUISE NO./LEG GYRE / 81-6 / LEG I

CHIEF SCIENTIST A H Bouma

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
116	278 / 1613	81/4/10				12 KHZ
116	280 / 1615	"	136	7.1		
	283 / 1618	"				3.5 KHZ
	284 / 1622	"				1/2 Sparker dup
	284 / 1622	"				1/4 Sparker dup
	285 / 1623	"	134	6.7		
116	290 / [illegible]	"	140	6.5		
	290 / 1631	"				3.5 mini KHZ
	294 / 1628	"				3.5
	289 / 1630	"				Sparker
	291 / [illegible]	"				1/4 Sparker dup
	292 / [illegible]	"				12 KHZ
	293 / 1635	"				12 KHZ
116	294 / [illegible]	"				3.5 KHZ
116	295 / [illegible]	EOL	136	6.9		
		0980 footage of tape at EOL 116				1/4 Sparker dup
		1010 footage at SOL 221				1/2 Sparker dup
						3.5 KHZ mini
						airgun (dup)
						Sparker
						3.5 KHZ
		"				airgun
						12 KHZ
221		"				1/4 Sparker dup
						1/2 Sparker dup
						3.5 KHZ mini
						airgun (dup)
		"				Sparker
						3.5 KHZ
		"				airgun
		"				12 KHZ

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
	+++ RRR edge					
	+R edge					
	.8 delay					
	.8 delay					
	delay to .9					
	+R +GR 3/4					
	+R center					
	delay to .9					
	+++ RRR center					
	++++ RRRR edge					
	+R +GR 1/4					
	.9 sec delay					EOL 116
	.8 sec delay					EOL 116
	.7 sec delay					EOL 116
	2 sec sweep					EOL 116
	+BR center					EOL 116
	+R +BR 1/4					EOL 116
	2 sec sweep					EOL 116
	++++ RRRR edge					EOL 116
	.5 sec delay					
	.8 sec delay		2500/200			SOL 221
	.5 sec delay					SOL 221
	2 sec sweep		200/80			SOL 221
	+R edge		2800/100			SOL 221
	+BR edge					SOL 221
	2 sec sweep	200/100				SOL 221
	+RR edge					SOL 221

SHIP/CRUISE NO. / LEG GYRE / 81-6 / LEG 1

CHIEF SCIENTIST A H Bouma

LINE START / END	SP / TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
221	1 / 1744	81/4/10	260	7.7		
"	4 / 1750					
"	5 / 1750		240	7.4		
"	10 / 1756		222	7.6		
"	15 / 1803		229	7.1		
"	15 / 1804		228	7.5		sparker 0.5sec delay.
	20 / 1810					
	25 / 1816		221	7.4		
	30 / 1823		226	7.6		
	35 / 1829		228	7.1		
	37 / 1832					3.5 mini
	37 / 1832					3.5
221	40 / 1836		229	7.1		
	40 / 1836					12 KHZ
	37 / 1832					3.5 KHZ mini
	42 / 1839					1/4 Sparker deep
221	45 / 1843		228	7.6		
221	50 / 1849		229	7.5		
	50 / 1850	81/4/10				1/4 sparker (deep)
	52 / 1852					mini Sparker (deep)
	53 / 1854					3.5 KHZ
	54 / 1855					12KHZ
221	55 / 1856		223	7.5		
221	60 / 1902		221	7.5		
	60 / 1902					3.5 KHZ
	60 / 1902					Sparker
	62 / 1905					3.5 KHZ mini
	62 / 1905					1/4 sparker
	65 / 1909		222	7.5		
	1913 / 67					12 KHZ
	1913 / 68					3.5 KHZ
	'69 / 1915					3.5 mini KHZ
	69 / 1915					1/4 sparker

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
	Airgun	4 sec fire				40 cc in airgun on
						change from internal to external mode
	delay to 1.0 sec					
	TR center					
	TTT RRR center					
	.7 sec. delay					
	.6 sec. delay					
	0.7 sec delay					
	0.7 sec delay					
	TR 1/4					
	TTT RRR edge					
	TR edge					
	T & R 1/2					
	.8 delay					
	.8 delay					
	TTT RRR center					
	TR T & R center					
	.9 sec delay					
	.9 sec delay					

SHIP/CRUISE NO./LEG GYRE / 81-6 / Leg I

CHIEF SCIENTIST AH Bouma

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
221	70 / 1915	81/4/10	226	7.6		
	75 / 1922		234	7.4		
	76 / 1924		220	7.9	EOL 221	
						1/4 Sparker dup
						1/2 Sparker dup
						3.5 KHZ mini
						airgun (dup)
						Sparker
						3.5 KHZ
						airgun
EOL 221						12 KHZ
SOL 219						1/4 Sparker dup
						3.5 KHZ mini
						1/2 sec sparker dup
						airgun (dup)
						Sparker
						3.5 KHZ
						airgun
						KHZ
219	1 / 2044	81/4/10	50	6.1		
	5 / 2050					
	7 / 2054					3.5 KHZ
	10 / 2058		48	6.5		
	15 / 2105		47	6.6		
	20 / 2113		49	6.1		
	25 / 2122		45	6.6		
	30 / 2128		42	6.6		
	35 / 2135		42	6.6		
	40 / 2144		56	6.3		
	43 / 2148					Sparker
	45 / 2150		55	6.6		

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
	.9 sec delay					EOL 221
	.9 " "	2500/240				EOL 221
	.9 sec delay					EOL 221
	2.0 delay	200/80				EOL 221
	T&R center	2800/100				EOL 221
	T R T&R center					EOL 221
	2.0 delay	200/100				EOL 221
	T/T R/R center					EOL 221
						SOL 219
						SOL "
						SOL "
	2.0sec sweep					SOL "
						SOL "
						SOL "
	2.0sec sweep					SOL "
						SOL "
	TR 1/4 (change to .5 sec sweep)					
						change filter from 200 to 8 K

SHIP/CRUISE NO./LEG GYRE/81-6I/I

CHIEF SCIENTIST Bowman

LINE START/END	SP/TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
219	50/2157	81/4/10	44	6.6		
	~~[illegible]~~					~~SPARKER~~ (dup)
	76/2237		43	6.6		3.5 KHz
	78/2249					Sparker
	77/2239		52	6.8		12 KHZ
	91/2257		46	6.5		Sparker (dup)
	117/2336					
	122/2343	"				Sparker (dup)
	126/2348					12 KHz
	130/0004	81/4/11		6.9		3.5 KHz
	140/0010					3.5 KHz
	140/0010Z					Sparker
	137/0052		44	7.1		12 KHZ
219	142/0022		44	7.1		12 KHz
219						Airgun 5+40 in³
219						3.5 KHz
219						Sparker
219						Air Gun 5+40 in³ (Dup)
219					INS	Sparker (Dup)
217						TAPE
217	1/0023		241.6	7.3		TAPE
217	1/0123					12 KHz
217						Air Gun 5+40 in³
217						3.5 KHz
217						Sparker
217						Air Gun 5+40 in³ (Dup)
217						Sparker (DUP)
0100	maint. before start of Line					Sparker (Dup)

AREA LAMAR

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
	.30 sec Delay					Program change
0.5	TR-3/4, 0.125 - 0.625					Prog. change
0.5	TR-3/4 0.125-0.625					Prog. change
1/4 sec	TR EDGE .250 - .500					Program change
	.20 sec Delay					Prog. change
	TTRR Center (1.5-2.5)					Program change
	Delay - 0.0 sec					Program change
	R Center					Program change
0.5	R-1/4					Prog. error
0.5	R-Edge 0-0.5					Prog. change
0.5	R-Edge 0.0-0.5					Prog. change
1/4 sec	REDGE 0.0-.25					Program change
.25	R-Edge 0-.25					EOL 219
2.0	Fine 4.0-	200/100				EOL 219
0.5	R-Edge 0.-0.5					EOL 219
0.5	R-Edge 0-0.5	2500/200				EOL 219
2.0	Fine 1.0	200/80				EOL 219
0.5	Dell sec Delay	3500/200				EOL 219
			4			EOL 219 - EOT 2400 ft
			5			SOL 217 - SOT 0000 ft
						SOL 217
						SOL 217
						SOL 217
SAME AS END OF LINE 219						SOL 217
						SOL 217
						SOL 217
						Belt & Program change

SHIP/CRUISE NO./LEG GYRE/81-6 I/I

CHIEF SCIENTIST Bowen

LINE START/END	SP/TIME	YYMMDD	TRK CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
217	77/0304	81/4/11	234.1	7.2		
	102 0339					12KHZ
	104/0341	"	215	8.0		Sparker (dup) 0.5 sec
	149/0447					Sparker (dup) 0.5 sec
	approx 0501	81/4/11	254.6	6.6		all systems (SP/S8)
—	0510		30.0	8.6		3.5KHZ
—	0525					Sparker (400 JOULE)
	159/0544		210.6	7.4		All systems
						12 KHZ
						airgun 5 x 40 in³
217	655/206	6.1	231.		EOL 217	3.5 KHZ
						Sparker
						airgun
						Sparker Dup
						12 KHZ
						airgun 5 x 40 in³
						3.5 KHZ
						Sparker
						airgun Dup
						Sparker Dup

AREA LAMAL

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						TRK & SPD check
	RCENTER					PROGRAM CHANGE
	Delay 0.10	(.10 - .60 sec)				Program change
	Delay 0.20	(.20 - .70 sec)				Program change
						All systems stopped (SP 58)
						recording S.P. - Ship
						circling back to SP/59
						belt change NAV. PROBLEM
						(while circling)
0.5		NOTE				SYSTEM DOWN - BUT IS
						STILL KEYING OTHER
						SYSTEMS
						Restart at SP 159
	TR edge 187.5 m - 375 mts					EOL 217
	2 sec swp.					EOL 217
	TR 3/4	94.5 - 469 mts				EOL 217
	not operating					EOL 217
	2 sec. swp					EOL 217
	1/2 sec swp.					EOL 217
	R. edge 0-187.5 m.					SOL 215
	2 sec swp.	200/100				
0.5	Redge 0-375 m					
0.5	Redge	2500/200				
2.0		200/80				
0.5	0.0 sec delay	2500/240				

SHIP/CRUISE NO./LEG

CHIEF SCIENTIST

LINE START / END	SP / TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
215	1/0811	81/4/11	55	7.6		
	41/0904					airgun
	43/0906					"
	40					
	116/1100					Sparker Dup
	119/1103					Sparker dup
215						
215	207/1319		45	6.4	EOL	
						12 KHZ
						Airgun 5 & 40 in^3
						3.5 KHZ
						Sparker
						Airgun
						Sparker Dup
213	1/1442	8/4/11	228	6.5		12 KHZ
						Airgun - 5 in^3
						3.5 KHZ
						Sparker (800 JOULE)
						Air Gun
						Sparker Dup (800 J) (TRIGGER PROBLEMS)
213	11/1500					TAPE
213	34/1516					MINISPARKER
	24/1519					MINISPARKER
213	29/1527					3.5KHz
	31/1529					3.5KHz
	35/1535					SPARKER

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
						Belt change
						argun back on line
	Slowed down approx 1 foot					
						change belt
						back on
	Redge	0-187.5 m				EOL 215
	2 sec Survey	200/100				EOL 215
0.5	Redge 0-375 m					EOL 215
0.5	Redge 0-375 m	2500/200				EOL 215
	2 sec Drop	200/80				EOL 215
.05	0 delay	2500/240				EOL 215
	R-EDGE (0-.25 sec)					SOL 213
2.0	FIRE 4.0	200/100				SOL 213
.5	R-EDGE 0-.25					SOL 213
.5	R-EDGE 0-.25	2500/200				SOL 213
2.0	Fire 4.0	200/80				SOL 213
.5	0 DELAY	2500/240				SOL 213
						TAPE RESTARTER —
						PROBLEMS W/ RECORDER
						CHANGED BELT
						ON LINE
						BELT CHANGE
						ON LINE
						OFF LINE

SHIP/CRUISE NO./LEG GYRE / 81-6 / LEG 1

CHIEF SCIENTIST A.H. BOUMA

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
	37 / 1539	81/4/11				SPARKER
	132					Air Gun
	139 / 1815		225°	6.7		Air Gun 40 cu in
	150 / 1832					Airgun 5 in³
	132 / 1839					Sparker (dup)
	165 / 1855					Sparker (dup)
213	235 / 2039		225	6.7		Sparker (dup) 400J
213						Airgun (dup) 5+40 in
213						Sparker
213						3.5 KHz
213						Airgun 5+40 in³
213						12 KHz
214	1 / 2140	"	43	6.1		Sparker (dup) 400J
214						Airgun (dup) 5
214						Sparker
214						3.5 KHz
214						Airgun 5
214						12 KHz
	3 / 2144					Sparker
	5 / 2146					Sparker
214	86 / 2357					Sparker
	88 / 2359					Sparker
214	208 / 0001	81/4/11	42	6.5	EOL	
	209 / 0302		42	6.6		
	210 / 0304		50	6.0		
	0310					5" Airgun

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
						ON LINE - BACK TO 400 JOULES
						Down
						up 40 cm in.
						ON LINE
						Paper not advancing
						Profiles incorrect
						steady increase showing
						when flow is level
						ON LINE
0.5	R-EDGE 0-.5	2500/240				E.O.L 213
2.0	FIRE 4.0	200/80				E.O.L 213
0.5	R-EDGE 0-.5	2500/200				E.O.L 213
0.5	R-EDGE 0-.5					E.O.L 213
2.0	FIRE 4.0	200/100				E.O.L 213
.25	R-EDGE 0-.25					E.O.L 213
0.5	R-EDGE 0-.5	2500/240	(0-375m)			S.O.L 214
2.0	FIRE 4.0	200/80	(0-1500m)			SOL 214
0.5	R-EDGE 0-.5	2500/200	(0-375m)			SOL 214
0.5	R-EDGE 0-.5		(0-375m)			SOL 214
2.0	FIRE 4.0	200/100	(0-1500m)			SOL 214
.25	R-EDGE 0-.25		(0-187.5m)			SOL 214
						OFF line - belt change
						ON line
						Belt change
						on line
						turn off

SHIP/CRUISE NO. /LEG

CHIEF SCIENTIST

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
214						Airgun 5 in³ dup
						3.5 KHZ
						Sparker (400 J)
						Airgun 5 in³
						12 KHZ
214						Sparker (dup) 400J
216					SOL	Airgun 5 in³ dup
						3.5 KHZ
						Sparker (400 J)
						Airgun 5 × 40 in³
						12 KHZ
216						Sparker (dup) 400J
216	1 0423		243	6.6	EOL	
	2 0426					Airgun
	6 0431					12KHZ
	7 0432					"
216	94 0645					12KHz
216	120 0726					MINISPARKER
	120 0727					"
	205 0938					12KHz
216	212 0950		192	7.1		Air Gun 5 in³ + 40 in³ dup
						3.5 KHz
						Sparker 400 J
						Air Gun 5 x 40
						12KHz
						Sparker

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
2.0	Fire 4.0	200/80	(0-1500 m)			EOL 214
0.5	Redge 0-.5		(0-375 m)			
0.5	Redge 0-.5	2500/240	(0-375 m)			
2.0	Fire 4.0	200/100	(0- 1500m)			
.25	Redge 0-.25					
0.5	Redge 0.5	2500/240	(0-375 m)			
2.0	Fire 4.0	200/80	(0-1500 m)			SOL 216
0.5	Redge 0-.5		(0-375 m)			
0.5	Redge 0-.5	2500/150	(0-375 m)			
2.0	Fire 4.	200/100				
.25	Redge 0-.25					
0.5	Redge 0.5	2500/240	(0-375 m)			
				? →		chng firing rate to 4 sec
						paper reel up problems off line
						back on line
						STYLUS CHANGE
						FLIP ELECTRODES
						ON LINE
.25	R-Center					Program change
						EOL 216
0.25	R-Center					
						EOL 216

Same

SHIP/CRUISE NO./LEG GYRE/81-6[1]/I

CHIEF SCIENTIST Bowen

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
220	1 / 1153	81/4/12	45°	6.7		12 kHz
						Air Gun 5 x 40 in³
						3.5 kHz
						Sparker
						Air Gun 5 x 40 in³ (Deep)
220						Sparker Deep
	1 / 1153					Sparker Deep
	10 / 1209					"
	25 / 1227					Sparker
	27 / 1230					Sparker
	32 / 1238					Sparker (Deep)
	61 / 1320					Sparker (Deep)
	61 / 1320					Sparker
	61 / 1320					3.5 kHz
	50					12 kHz
	98 / 1414					12 kHz
	108 / 1428		48			
	149		45			
220	0 / 143		50		EOC	
						12 KHZ
						Air gun 5 x 40 in³
						3.5 KHZ
						Sparker
						Airgun 5x40 in³ (Deep)
						Sparker Deep

AREA LAMR

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
0.25	TTT-RRR-Center	.625 - .1875				SOL 200
2.0	Fire 4.0					
0.5	TGR-3/4	.625 - 1.125				
0.5	TGR-3/4	.625 - 1.125				
2.0	Fire 4.0					
0.5	Delay 0.75sec					
						SP 1-4 [illegible] SPARKER Dub Down
						ON LINE
2.5						Belt change - OFF
0.5						ON LINE
0.5	Delay 0.5					Prog change
0.5	Delay 0.3					Program change
0.5	TR Center	2.5-7.5				Prog change
0.5	TR-Center	2.5-7.5				Prog change
						Down mech. probl.
	Redge					program change
.25	Redge	0-187.5 m				EOL 220
2.0	Fire 4.0 sec	200/100				"
.5	TR center	187-562 m				"
0.5	TR center	187-562 m	2500/150			"
2.0	Fire 4.0 sec	200/80				"
0.5	Delay 0.3	2500/240				EOL 220

SHIP/CRUISE NO. / LEG

CHIEF SCIENTIST

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
		81/4/12				12 KHZ
						Air gun 5 x 40 in³
						3.5 KHZ
						Sparker
						Air gun 5 x 40 in³ (dup)
						Sparker (dup)
222	1546		212	6.5		
	18 1611					Sparker dup
	42 1648	"	224			12 KHZ
222	44 1659		225		EOL	
						12 KHZ
						Air gun 5 x 40 in³
						3.5 KHZ
						Sparker
						Air gun 5 x 40 in³ (dup)
						Sparker (dup)
117	0 1801					Air gun
117	1 1801	SOL				
117						12 KHZ
						Air gun 5 x 40 in³
						3.5 KHZ
						Sparker
						Air gun 5 x 40 in³ (dup)
						Sparker (dup)
117		"				
	1700					5" Air gun
						Sparker dup
	18 23/8					Sparker
	9					3.5 KHZ
	9					12 KHZ

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
.25	TTRR edge 375-562.5m					SOL 222
2 sec	4.0 fire	200/100				SOL 222
.5 sec	TRR 3/4 (469-844m)					"
.5	TRR 1/2 (562-938m)	2500/150				"
2.0	4.0 sec fire	200/80				"
	delay .7	2500/240				"
	delay to .80					
						shot down
.25	TTT RRR edge	562.5 - 750 m				EOL 222
2 sec	4.0 fire	200/100				EOL 222
1/2 sec	TRR 1/4 656 -	1031 m				EOL 222
1/2 sec	TRR 1/4 656-1031 m	2500/150				EOL 222
2.0	4.0 sec fire					EOL 222
	.7 delay	2500/240				EOL 222
2.0	4.0 fire 40+5					Back on line
.25	TTTT RRRR ctr	875-1125m				SOL 117
2.0	A delay B	200/100				SOL 117
.50	TR 3/4 844-1219 m					"
.50	TR 3/4 844-1219 m	2500/150				"
2.0	A delay B	200/80				"
.50	1.00 delay 750-1500 m	2500/240				"
						maintenance
	1/2 sec sec	1.0 sec delay				
	1/4 delay					
	1/4 delay					
	TT RRR edge					

SHIP/CRUISE NO./LEG
CHIEF SCIENTIST

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
117	1 / 1812	81/4/12	319	7.2	SOC	
	04 / 1817					Sparker dup
	16 / 18[illegible]					Sparker dup
	17 / 1825					12 KHZ
	26 / 1848					3.5 KHZ
	27 / 1849					Sparker
	30 / 1853					Sparker dup
	32 / 1857					3.5 KHZ
	32 / 1857					Sparker
	36 / 1859					12 KHZ
	38 / 1905					Sparker dup
	40 / 1908					3.5 KH
	41 / 1909					12 KHZ
	45 / [illegible]					Sparker
	46 / 1916					Air gun
	47 / 19[illegible]					Air gun (dup)
	[illegible] / 1926					3.5 KHZ
	[illegible]					Sparker
	55 / 1929					12 KHZ
	69 / 1948					Sparker (dup)
	71 / 1951					Sparker + 3.5 KHZ
	75 / 1957					12 KHZ
	85 / 2010					Airgun dup
	90 / [illegible]					Airgun
	9[illegible]					12 KHZ
	100 / 2030					12 KHZ
	101 / 2032					Airgun dup + Sparker dup
	101 / 2033					Airgun
	110 / 2045					3.5 KHZ
	110 / 2045					Sparker
	123 / [illegible]					Drilling rig noise on rec[illegible]
	158 / 2153					40° cum. (Airgun)

AREA
TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
	1.00 delay					
	.80 delay					
	TTT RRR center					pr. change
1/2 sec	sup TGR center					
	TGR center					
	.7 sec delay					
	TGR 3/4	469-844 m				
	TGR 3/4	469-844 m				
	TTRR center	281-479 m				
	.4 delay					
	TR edge	375-750 m				
	TR edge	375-750 m				
	TR edge	375-750 m				
	1/4 sec delay					
	1/4 sec delay					
	TR 1/4	281-656 m				
	TR 1/4	281-656 m				
	TRR center	281-469 m				
	.2 sec	150-525 m				
	TR 3/4 (94.5-496 m)					
	TR edge	187.5-375				
	1/8 sec	delay				
	1/8 sec					
	TR 6 93.5-281 m					
	R edge					
	0 delay					
	0 delay					
	R edge	0-375 m				
	R edge	0-375 m				
						Shut down 40 in^3 - change
						5 cu in to 2 sec shot

SHIP/CRUISE NO./LEG GYRE / 8-6 / LEG I
CHIEF SCIENTIST A H Bouma

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
117	171 / 2211	81/4/12				Sparker
"	173 / 2213	"				"
117	292 / 0055 Z	18/4/13	314	6.5		12 KHz
117						Air Gun 5 IN³
117						3.5 KHz
117						Sparker
117						Air Gun 5 in³ (Dup)
117						Sparker (Dup)
119	1 / 0215		135	4.8		12 KHz
119						Airgun 5 in³
119						3.5 KHz
119						Sparker
119						Airgun 5 in³ (Dup)
119						Sparker (Dup)
119	61 / 0347		139	7.4		EPC 3200 SPARKER ORE 140
	131 / 0536					SPARKER
	132 / 0538					SPARKER
	137 / 0548					SPARKER
	138 / 0550					SPARKER
	155 / 0618					12KHZ
	159 / 0623					"
	161 / 0627					Sparker
	163 / 0630					Sparker dup
	168 / 0639					Sparker ORE
	169 / 0640					12 KHZ
	173 / 0645					3.5 KHZ
	176 / 0649					Sparker
	179 / 0659					Sparke dup
	183 / 0702					12 KHz
	195 / 0718					12 KHz

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
.5						Belt change off line
.5						ON LINE
0.25	R-Edge 0-.25					EOL 117
2.0	4.0 Fire	200/100				
0.5	R-Edge 0-.5					
0.5	R-Edge 0-.5	2500/150				
2.0	4.0 Fire	200/80				
0.5	Delay 0.0	2500/240				
.25	R-EDGE	(0-.25)				S.O.L. 119
2.0	4.0 FIRE	200/100				SOL 119
0.5	R-EDGE		(0-.5)			SOL 119
0.5	R-EDGE	2500/200	(0-.5)			SOL 119
2.0	4.0 FIRE	200/80				SOL 119
.5	Delay 0.0	2500/320				SOL 119
.5	R-EDGE					ON LINE
						OFF LINE
						ON LINE
						OFF LINE
						ON LINE
	R center					
	TR center (93.5-281m)					
	+ R 3/4 94.5 - 469 m					
	.2 delay					
	.2 delay					
	+ R edge 187.5 m - 375 m					
	+ R 1/4 281 - 656 m					
	+ R 1/4 281 - 656 m					
	.4 delay					
	TT RR Center	281 - 469				
	TT RR Edge					

SHIP/CRUISE NO. / LEG

CHIEF SCIENTIST

LINE START / END	SP / TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
119	197 / 0721	81/4/13				Sparker
	202 / 0729					Sparker dup
	204 / 0753					12KHZ
119	207 / 0737					sparker ORE 140
	208 / 0739					sparker
	210 / 0743					"
	213 / 0746					12KHZ
	214 / 0748					Sparker Dup
119	215 / 0750					3.5 KHZ
	222 / 0800					12 KHZ
	224 / 0805					12 KHZ
	227 / 0807		134	6.3		
119	228 / 0808	81/4/13	137	5.0	EOL 119	
						12 KHZ
						Airgun 5 in^3
						3.5 KHZ
						Sparker
						Airgun dup
						Sparker dup
						Sparker ORE 140
121		81/4/13			SOL 121	12 KHZ
						Airgun 5 in^3
						3.5 KHZ
						Sparker
						Airgun dup
						Sparker dup
						Sparker ORE 140
	6 / 0755					sparker dup

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
.5	TREdge 375-750m					
.5	.6sec delay					
.25	TTRRR 1/2 469-656.5m					
.5	.6sec delay					
.5						belt moved off line
.5	TGR 1/2 562-938m					back on line
.25	TTRRR Edge 562.5-750m					
.5	.8 sec delay					
	TGR 1/4 656-1031 m					
.25	TTTRRRR Center	656-844m				
.25	TTTTRRRR Edge					
.25	TTTTRRRR delay	750-937.5				EOL 119
2.0	40+5 in³	200/100				EOL 119
.5	TGR 1/4 656-1031 m					EOL 119
.5	TGR 1/2 562-938m		2500/200			EOL 119
2.0	40+5 in³	200/80				EOL 119
.5	.8 delay	2500/320				EOL 119
.5	.8 delay	ORE transceiver				EOL 119
.25	TTRR center 281-469m					SOL 121
2.0	40+5in³ - 4.0 fine		200/100			"
.5	TR 1/2 281-656m					"
.5	TR 1/4 281-656m		2500/200			"
2.0	40+5in³ gain	4.0 fine	200/80			"
.5	.4 delay		2500/320			"
.5	"					"
	.2 delay					
	"					

SHIP/CRUISE NO. / LEG

CHIEF SCIENTIST

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
121	0946	81/4/13	334			
	17 / 1009					12 KHZ
	19 / 1013					3.5 KHZ
121	20 / 1015					sparker
	40 / 1048	"				12 KHZ
	50 / 1105					Sparker dup
	54 / 1107					12 KHZ
	56 / 1115					3.5
						sparker
121	73 / 1143		330	6.9		
121	73 / 1144	"	326	7.2	EOL	
						12 KHZ
						Airgun 5 + 40 in³
						3.5 KHZ
						Sparker
						Airgun dup
						Sparker dup
						Sparker ORE 140
						12 KHZ
						Airgun 5 + 40 in³
						3.5 KHZ
						Sparker
						Airgun dup
						Sparker dup
						Sparker ORE 140
122	1 / 1223	81/4/13	171	6.8	SOL	
	25 / 1258					12 KHZ
	31 / 1306	"				sparker
	31 / 1306					3.5
	32 / 1307	"				Sparker ORE
	35 / 1311	"				Sparker dup

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
	+R edge	375-750 m				
	+R 3/4	94.5-469 m				
	"	"				
	TR center	93.5-281 m				
	.1 delay					
	R edge					
	R edge	0-375 m				
	"	"				
.25	R edge 0-187.5 m					EOL 121
2.0	40 + 5 m³	4.0 fire	200/100			EOL 121
.5	R edge 0-375 m					EOL 121
.5	R edge 0-375 m	2500/200				EOL 121
2.0	40 + 5 m³	4.0 fire				EOL 121
.5	0 delay	2500/320				EOL 121
.5	0 delay ORE	transceiver				EOL 121
.25	R edge 0-187.5 m					SOL 122
2.0	40 + 5 m³	4.0 fire	200/100			SOL 122
.5	R edge 0-375 m .5 sec swp					SOL 122
.5	R edge 0-375 m .5 sec swp	2500/200				SOL 122
2.0	0 delay 0-1500 m					SOL 122
.5	0.1 delay	2500/200				SOL 122
.5	0 delay ORE	transceiver				SOL 122
	TR edge 187.5-375 m					for change
	+ R center	187-562 m				"
	TR center	187-562 m				"
	.2 sec delay					"
	.3 sec delay					"

SHIP/CRUISE NO. /LEG

CHIEF SCIENTIST

LINE START / END	SD / TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
122	47 / 1327	81/4/13	135		EOC122	12 KHZ
						Airgun 5 x 40 in^3
						3.5 KHZ
						Sparker
						Airgun dup
						Sparker dup
						Sparker ORE 140
120	1 / 1500	81/4/13	320	7.3		12 KHZ
						Airgun 5 x 40 in^3
						3.5 KHZ
						Sparker
						Airgun dup
						Sparker dup
	4 / 1503					Sparker ORE 140
						SPARKER ORE 140
	[illegible]					12 KHZ
	13 / 1514					12 KHZ
	1520					12 KHZ
	1552					12 KHZ
	1611					3.5 KHZ
	57 / 1617					12 KHZ
	70 / 1623					12 KHZ
	87 / 1701					AIRGUN - 40 in^3
	103 / 1723					SPARKER
	106 / 1726					SPARKER
	118 / 1744					SPARKER
	1755					SPARKER 400 J
	163 / 1847					SPARKER
	167 / 1853					SPARKER
	179 / 19082					12 KHZ
	183 / 19153					12 KHZ

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
.25	TTRRcenter 281-469 m					EOL 122
2.0	40 x 5 in³	4.0 fire	200/100			EOL 122
.5	TRcenter 187-562 m					EOL 122
.5	TR 1/2 187-562 m	2500/200				EOL 122
2.0	0 delay					EOL 122
.5	.3 delay	2500/320				EOL 122
.5	.2 per delay	0 RE transducer				EOL 122
.25	TTTRRR EDGE	(562.5-750 m)				SOL 120
2.0	FIRE 4.0					SOL 120
.5	TR EDGE					SOL 120
.5	TRR 1/2					SOL 120
2.0	FIRE 4.0	0 DELAY				SOL 120
.5	0.7 DELAY	(525-900 m)				SOL 120
.5	0.7 DELAY	(525-900 m)				SOL 120
.5	0.3 DELAY					PROGRAM [illegible]
0.25	TTTRRR CENTER	469-656.5	m			Program change
0.25	TTRR EDGE	375-562.5	m			Program change
0.25	TTRR CTR					PROG. CHANGE 281-469 M
0.25	TR EDGE					" " " 187-375 M
0.50	TR 3/4					" " " 94.5 469
0.25	RCENTER	93.5 — 281 m				PROGRAM CHANGE
0.25	REDGE	0 — 187.5 m				" "
						OFF LINE
						OFF LINE
						ON LINE
						OFF LINE
						ON LINE
						OFF LINE
						ON LINE
						OFF LINE
						ON LINE

SHIP/CRUISE NO. /LEG

CHIEF SCIENTIST

LINE START/END	SP TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
120	202/1942		321	7.0		12KHz
120						Airgun 5in³
120						3.5KHz
120						Sparker
120						Airgun 5in³ dup
120						Sparker dup SEA MAR
120						Sparker ORE 140
118	1/2106	81/4/2	132	7.6		12KHz
118						3.5KHz
118						Sparker
118						Sparker dup SEA MAR
118						Sparker ORE 140
118	92/2026	"				Airgun
	"					" " dup.
	128/0023					Airgun + Airgun dup
	154/0103					Sparker ORE 140
	156/0105					Sparker dup ORE 140
	176/0138					12KHZ
	179/0143					"
	182/0148					"
	183/0149					"
	187/0155					Sparker
	189/0158					"
	190/0200					"
	189/0159					Sparker ORE 140
	192/0208					Main Sparker
	200/0215					3.5
	209/0230					12KHZ
	"					main Sparker
	214/0239					sparker dup + ORE 140
	217/0243					Sparker + 3.5

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
.25	R-EDGE		(0-187.5m)			EOL 120
2.0	FIRE 4.0	19/200	(0-1500m)			EOL 120
.5	R-EDGE		(0-375m)			EOL 120
.5	R-EDGE	2500/200	(0-375m)			EOL 120
2.0	FIRE 4.0		(0-1500m)			EOL 120
.5	R-EDGE	240/2500	(0-375m)			EOL 120
.5	R-EDGE	240/2500	(0-375m)			EOL 120
.25	R-EDGE					SOL 118
.5	R-EDGE					SOL 118
.5	R-EDGE	2500/200				SOL 118
.5	R-EDGE	240/2500				SOL 118
.5	R-EDGE	240/2500				SOL 118
2.0	5in³	200/100	4.0sec fire			Back on line after repair
2.0	5in³	200/80	4.0sec fire			
						add 40in³ take off 5in³
						paper change
						back on line
.25	Rcntr (93.5-281m)					
						off line - paper change
						back on line
	TR edge (187.5-	375m)				
	TR 3/4 (94.5-469)					
						belt change - off line
						back on line
.5	.2sec delay					
.5	TR 3/4					down - for repair
.5	TR 1/2 (187-562m)					
.25	TTR 1/2 281-469m					
.5	TR 1/2 (187-562m)					Back on line
.5	.4delay					
.5	TR edge (375-750m)					

SHIP/CRUISE NO. / LEG

CHIEF SCIENTIST

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
116	219/0256					12KHZ
	229/0301					sparker dup. + ORE 140
	231/0304					12KHZ
	242/0332					"
	244/0325					spark. dup. + ORE 140
	"					sparker
	"					3.5
	251/0337					12 KHZ
	252/0338					3.5
	253/0339					spark. dup. + ORE 140
	261/0352					12
	263/0355		127	4.4		
LSP	264/0357		136	4.7	EOL	12KHZ
118						AIR GUN 40 in³
						3.5 KHZ
						sparker
						AIRGUN DUP.
						sparker dup.
						ORE 140
						12 KHZ
						Air gun 40 in³
						3.5 KHZ
						Sparker
						Air gun dup
						Sparker dup
						Sparker ORE dup
115	04/0512		309	7.8	SOL	
	06/0520					Sparker
	07/0521					12 KHZ
	14/0531					3.5 KHZ
	16/0532					sparker dup + ORE
	16/0534					sparker

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
.25	TTRR edge	(375-562.5m)				
	delay .6 sec					sparker TGR 1/2 562-938 (SP 231) 03098
	TTTRRR center	(469-656.5m)				
	" edge	(562.5-750m)				
.5	.7 delay	(525-900m)				
.5	TGR center	(562-938m)				
.5	TGR 3/4	(469-844m)				
	TTTTRRRR center	(656-844m)				
	TGR 1/4	(656-1031m)				
	.8 delay	(600-975m)				
	TTTTRRRR edge	(750-937.5m)				
.25	TTTTRRRR edge	(750-937.5m)				EOL 118
2.0	fire 4.0	200/100				"
.5	TR 1/4 656-1031m					"
.5	TR center 562-938m	2500/200				"
2.0	fire 4.0					"
.5	.8 delay 600-975m	200/2500				"
.5	.8 delay 600-975m					"
.25	TTTRRR center	469-656.5m				SOL 115
2.0	0.5 delay 375-187.5m	200/100				"
.5	TR edge					"
.5	TR 3/4 469-844m	2500/200				"
2.0	.60 sec delay 450-825					"
.5	a delayed by B	200/2500				"
.5	.60 delay					"
	TR edge 375-750m					for change
	TTRR edge 375-562.5m					"
	TR center 187-562m					"
	.4 delay					"
	TR 1/4 281-656m					"

SHIP/CRUISE NO./LEG GYRE / 81-6 / LEG I

CHIEF SCIENTIST AH BOUMA

LINE START / END	SP / TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
115	18 / 0535	81-4-13				12KHZ
	35 / 0545					Sparker dup + ORE
	32 / 0554					12 KHZ
	32 / 0554					Airgun & airgun dup
	34 / 0556					airgun dup + ORE
	35 / 0558					sparker
	SP 53					SPARKER ORE 140
	"					SPARKER (dup) SEA MAC
	"					SPARKER
	SP 50					3.5KHz
	SP 55					12 KHz
	SP 59					12KHZ
	SP 70					12 KHz
	SP 73					SPARKER ORE 140
	73					SPARKER SEA-MAC
	87					SPARKER
115	20 / 1120		318	6.6	EOL	12KHz
115						AIR GUN 40 in³
115						3.5KHz
115						MINISPARKER
115						AIR GUN 40 in³ (DUP)
						MINISPARKER (DUP)
115						
						SPARKER (ORE 140)
113	1 / 1254		136	7.4		12 KHz
113						Airgun 40 in³
115						3.5 KHz
113						Sparker
113						Airgun 40 in³ (dup)
115						Sparker (dup) SEA-MAC
113						Sparker ORE 140

AREA
TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
	TTRR 1/2	281-469m				
	delay to 0.3 sec	225-600m				
	TR edge. 187.5-375m					
	delay to 0.2 v. 150-600m					no delay pr change
	TR 1/2 187-562m					
.5	DELAY .1					program change
.5	DELAY .1					"
.5	TR 3/4 (94.5-469m)					"
.5	REDGE (0-375m)					"
.25	REDGE (0-187.5m)		line not on page yet switch back one program			"
.25	RCENTER (93.5-281m)					"
.25	REDGE (0-187.5m)					"
	DELAY -0.0					
	DELAY -0.0					
	R-EDGE (0-375)					
						.5
0.25	REDGE (0-187.5m)					EOL 115
2.0 SEC	(FIRE 4.0 SEC) (0-1500 FT)					"
0.5 SEC	REDGE (0-375m)					"
0.5 SEC	REDGE (0-375m)	240/2500				"
2.0 SEC	(FIRE 4.0 SEC) (0-1500 FT)					"
0.5	REDGE (0-375m)	240/2500				"
0.5	REDGE (0-375m)					"
.25	R-EDGE		(0-187.5m)			S.OL 113
2.0	FIRE 4.0s	100/200	(0-1500m)			"
.50	R-EDGE		(0-375m)			"
.50	R-EDGE	2500/200	(0-375m)			"
2.0	FIRE 4.0s		(0-1500m)			"
.50	R-EDGE	240/2500	(0-375m)			"
.50	REDGE		(0-375m)			"

11

SHIP/CRUISE NO. / LEG

CHIEF SCIENTIST

LINE START / END	SP TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
113	17 / 1317	81/01/14				SPARKER
"	18 / 1319	"				SPARKER
"	161 / 1643	"				12KHZ
"	163 / 1646	"				"
"	186 / 1718	"				AIRGUN
	240 / 1857	"				12 KHZ
	243 / 1839		129			
	243 / 1841		125			
	241 / 1842		135	5.9	EOL 113	12 KHZ
						airgun 40 in³
						3.5 KHZ
						Sparker
						airgun 40 in³ (dup)
						Sparker (dup)
						Sparker ORE
						12 KHZ
						airgun 40 in³
						3.5 KHZ
						Sparker
						airgun 40 in³ (dup)
						Sparker (dup)
						Sparker ORE
114	1 / 1938		306	7.0	SOL	
	10 / 1952					Sparker
	11 / 1953					12KHZ
	12 / 1954					3.5 KHZ
	17 / 2001					sparker dup + ORE 140
	26 / 2013					Sparker
	38 / 2017					12 KHZ
	39 / 2033					"
	46 / 2042					Sparker dup + ORE
	52 / 2051					Sparker + 3.5 KHZ

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
						OFF LINE - BELT CHANGES
						ON LINE
						off line paper change
						on line
						40 in³ online, 4.0sec fire
	R center (93.5-281 m)					
.25	R center 93.5-281m					EOL 113
2.0	4.0 sec fire	100/200				EOL 113
.5	Redge 0-375m					EOL 113
.5	Redge 0-375 m	2500/200				EOL 113
2.0	4.0 sec fire	80/200				EOL 113
.5	.10 delay	240/2500				EOL 113
.5	.10 delay					EOL 113
.25	TTRK center 281-469m					SOL 114
2.0	4.0 sec fire	100/200				SOL 114
.5	TR1/4 281-656m					SOL 114
.5	TR1/4 281-656m	2500/200				SOL 114
2.0	4.0 sec fire	80/200				SOL114
.5	.3 delay	240/2500				SOL 114
.5	.3 delay					SOL 114
	TR1/2 187-562 m					pr change
	TR edge 187.5-375m					"
	TR3/4 94.5-469					"
	.1 delay					"
	TR3/4 94.5-469					"
	TR center					"
	R center 93.5-281m					"
	0 delay					"
	Redge 0-375m					

SHIP/CRUISE NO. / LEG GYRE / 81-6 / LEG 1

CHIEF SCIENTIST A.H. Bouma

LINE START / END	SP / TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
114	91 / 2054	81/4/14				12 KHZ
114	96 / 2152					Sparker
	98 / 2154					Sparker
	101 / 2159					Sparker
	105 / 2304					Sparker
	159 / 2317	"				AIR GUN
114	248 / 0123	81/4/15	316	6.8		12KHZ
114						Airgun 5 in³
114						3.5 KHZ
114						SPARKER
114						Airgun (dup) 5 in³
114						SPARKER SEA-MAC
114						SPARKER ORE 140
112	1 / 0230	81/4/15	142	5.9		12KHZ
112						Airgun 5 in³
112						3.5 KHZ
112						SPARKER
112						Airgun (dup) 5 in³
112						SPARKER SEA-MAC
112						SPARKER ORE 140
NOTE:	SPARKER	ORE 140	DOES	NOT	HAVE A	FILTER
112	227 / 0809	81/4/15	141	6.5		12 KHZ
112	228 / 0810	81/4/15	144	6.7	EOL 112	airgun 5 in³
						3.5 KHZ
						Sparker
						airgun (dup) 5 in³
						Sparker dup
						Sparker ORE 140

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
	Redge					program change
						Tell change - off line
						back on line
						shutdown - Change electrodes
						ON. LINE
	2.0 FIRE					40 in³ REMOVER 5 in³ on SHALLOW WATER
.25	R-EDGE	(0-187.5 m)				EOL 114
2.0	2.0 FIRE	100/200	(0-1500m)			EOL 114
.5	R-EDGE		(0-375m)			EOL 114
.5	R-EDGE	2500/200	(0-375m)			EOL 114
2.0	2.0 FIRE	80/200	(0-1500m)			EOL 114
.5	0 DELAY	240/2500	(0-375m)			EOL 114
.5	0 DELAY		(0-375m)			EOL 114
.25	R-EDGE		(0-187.5m)			SOL 112
2.0	2.0 FIRE	100/200	(0-1500m)			SOL 112
.5	R-EDGE		(0-375m)			SOL 112
.5	R-EDGE	2500/200	(0-375m)			SOL 112
2.0	2.0 FIRE	80/200	(0-1500m)			SOL 112
.5	0 DELAY	240/2500	(0-375m)			SOL 112
.5	0 DELAY		(0-375m)			SOL 112
						NARROW BAND PASS FILTER JW
.25	R edge		(0-187.5m)			
2.0	2.0 fire	100/200	(0-1500m)			
.5	R-edge		(0-375m)			
.5	R edge	2500/200	(0-375m)			
2.0	2.0 fire	80/200	(0-1500m)			
.5	0 delay	240/2500	(0-375m)			
.5	0 delay		(0-375m)			

SHIP/CRUISE NO./LEG

CHIEF SCIENTIST

LINE START / END	SP / TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
111	1 / 0855	81/4/15	319	6.1	SOL 111	12 KHZ
						Airgun 5 in^3
						3.5 KHZ
						Sparker
						Airgun (dup) 5 in^3
						Sparker (dup)
						Sparker ORE 140
	28 / 0930					Sparker
	31 / 0941					Sparker
	46 / 1002					"
	51 / 1010					"
	~~56 / 1016~~					"
	58 / 1019					"
	190 / 1328					
111	210 / 1356		317	7.2	EOL 111	
						12 KHZ
						Airgun 5 in^3
						3.5 KHZ
						Sparker
						Airgun (dup) 5 in^3
						Sparker (dup)
						Sparker ORE 140

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
.25	R-edge		(0-187.5 m)			SOL 111
2.0	2.0 fire	100/200	(0-1500 m)			SOL 111
.5	R-edge		(0-375 m)			SOL 111
.5	R-edge	2500/200	(0-375 m)			SOL 111
2.0	2.0 fire	80/200	(0-1500 m)			SOL 111
.5	0 delay	240/2500	(0-375 m)			SOL 111
.5	0 delay		(0-375 m)			SOL 111
						Belt change
						Back on line
						off line for repairs
						back on line
						Belt change
						Back on line
.25	R-edge		(0-187.5 m)			EOL 111
2.0	2.0 fire	100/200	(0-1500 m)			EOL 111
2.0	R-edge		(0-375 m)			EOL 111
.5	R-edge	2500/200	(0-375 m)			EOL 111
2.0	2.0 fire	80/200	(0-1500 m)			EOL 111
.5	0 delay	240/2500	(0-375 m)			EOL 111
.5	0 delay		(0-375 m)			EOL 111

SHIP/CRUISE NO./LEG GYRE/81 6/LEG I
CHIEF SCIENTIST A H Bouma

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
109	1513	81/4/15	135	6.0		12KHZ
109						AIRGUN 5x40 in³
109						3.5 KHZ
109						SPARKER
109						AIRGUN (dup) 5x40 in³
109						SPARKER/SEA-MAC
109						SPARKER/ORE.140
					SP - 65	200 Element - Teledyne AMP
						100-1060 HZ
						24 db/oct.
109	207 2015	81/4/15	130	6.7		12KHZ
109						3.5 KHZ
109						SPARKER
109						SPARKER SEA-MAC
109						SPARKER ORE 140
STATION						
2-42		81/04/15			29° 32.46 N	on station
					88° 23.88 W	
					29 33.149 N	on bottom
					088 23.777 W	
3-48					29 28.390 N	on Station
					88 19.853 W	
					29 28.412 N	on bottom
					088 19.891 W	

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
.25	R-EDGE		(0-187.5 m)			SOL 109
2.0	DELAY		(0-1500 m)			NOT ON LINE
.50	R-EDGE		(0-375 m)			SOL 109
.50	R-EDGE	2500/200	(0-375 m)			SOL 109
2.0	DELAY		(0-1500 m)			NOT ON LINE
.50	R-EDGE	240/2500	(0-375 m)			SOL 109
.50	R-EDGE		(0-375 m)			SOL 109
.25	R-EDGE		(0-187.5 m)			EOL 109
.5	R-EDGE		(0-375 m)			EOL 109
.5	R-EDGE	2500/200	(0-375 m)			EOL 109
.5	R-EDGE	240/2500	(0-375 m)			EOL 109
.5	R-EDGE	200 ELEMENT - TELEDYNE AMP 100-1060 Hz				EOL 109
		24 db/OCT				
			(0-375 m)			

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
.25	R-EDGE		(0-187.5 m)			SOL 109
2.0	DELAY		(0-1500 m)			NOT ON LINE
.50	R-EDGE		(0-375 m)			SOL 109
.50	R-EDGE	2500/200	(0-375 m)			SOL 109
2.0	DELAY		(0-1500 m)			NOT ON LINE
.50	R-EDGE	240/2500	(0-375 m)			SOL 109
.50	R-EDGE		(0-375 m)			SOL 109
.25	R-EDGE		(0-187.5 m)			EOL 109
.5	R-EDGE		(0-375 m)			EOL 109
.5	R-EDGE	2500/200	(0-375 m)			EOL 109
.5	R-EDGE	240/2500	(0-375 m)			EOL 109
.5	R-EDGE	200 ELEMENT - TELEDYNE AMP 100-1060 Hz				EOL 109
		24 db/OCT				
			(0-375 m)			

SHIP/CRUISE NO. / LEG

CHIEF SCIENTIST

Station no. LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
4-53		81-04-05			29° 24.566' N	on station
					088° 23.964' W	
					29° 24.671'	N on bottom
					088° 23.832	W
5-58					29° 20.904	station
					088° 19.816 W	
					29 20.894	N bottom
					088° 19.578	W
6-62					29 17.130	N station
					88 23.864	W
					29 17.826	N bottom
					088 23.885	W
7-66					29 13.427	station
					88 19.748	
					29 13.604	
					88 19.829	

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	Bottom COMMENTS
STA.	L N S				Sta.	Silent 700 ASR
2-42	29° 33.149'	N			2-42	29° 33.07' N
	88° 23.777'	W				88° 23.70' W
3-48	29° 28.412'	N			3-48	29° 28.33' N
	88° 19.891'	W				88° 19.80' W
4-53	29° 24.671'	N			4-53	29° 24.62' N
	88° 23.822'	W				88° 23.77' W
5-58	29° 20.894'	N			5-58	29° 20.84' N
	88° 19.878'	W				88° 19.79' W
6-62	29° 17.226'	N			6.62	29° 17.20' N
	88 23.885'	W				88° 23.83' W
7-66	29° 13.604'	N			7-66	29° 13.59' N
	88° 19.829'	W				88° 19.76' W
8-69	29° 9.998'	N			8-69	29° 09.99' N
	88° 23.721'	W				88° 23.68 W
9-73	29° 6.096'				9-73	29° 06.06' N
	88° 19.655'					88° 19.61 W
10-76	29° 2.4112'	N			10-76	29° 02.39' N
	88° 24.010'	W				88° 23.97' W
11-80	28° 58.51'	N			11-80	28° 58.47' N
	88° 19.85'	W				88° 19.82 W

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
STA	INS				STA	SILENT 700 ASR
12-79	28° 58.90'	N			12-79	28° 58.83'
	88° 28.70'	W				88° 28.70'
13-75	29° 3.008'	N			13-75	29° 02.90 N
	88° 32.33'	W				88° 32.29 W
14-78	28° 58.32'	N			14-78	28° 58.38' N
	88° 36.45'	W				88° 36.47' N
15-74	29° 2.48'	N			15-74	29° 02.53' N
	88° 40.89'	W				88° 40.91' W
16-77	28° 58.25'	N			16-77	28° 58.24' N
	88° 46.35'	W				88° 46.34' W
17-70	29° 5.89'	N			17-70	29° 05.79' N
	88° 46.24'	W				88° 46.34' W
18-67	29° 9.77'	N			18-67	29° 09.67' N
	88° 40.97'	W				88° 41.06' W
19-71	29° 05.87'	N			19-71	29° 05.77' N
	88° 36.45'	W				88° 36.57' W
20-68	29° 9.87'	N			20-68	29° 09.76' N
	88° 32.50'	W				88° 32.59' W
21-72	29° 6.06'	N			21-~~76~~72	29° 05.93' N
	88° 28.32'	W				88° 28.41 W

SHIP/CRUISE NO./LEG GYRE 81/6/I

CHIEF SCIENTIST

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
			STA		INS	SILENT 700 ASK
			22-65		29° 13.81' N	23° 13.69' N
					88° 28.66' W	88° 28.77' W
			23-61		29° 17.47 N	29° 17.48 N
					88° 32.73 W	88° 32.74 W
			24-64		29° 13.46 N	29° 13.47 N
					88° 36.71 W	88° 36.72 W
			25-60		29° 17.18 N	29° 17.19 N
					88° 41.05 W	88° 41.04 W
			26-63		29° 13.44 N	29° 13.45 N
					88° 46.31 W	88° 46.30 W
			27-59		29° 17.18 N	29° 17.21 N
					88° 49.08 W	88° 49.08 W
			28-55		29° 20.86 N	29° 20.97 N
					88° 46.24 W	88° 46.24 W
			29-51		29° 24.51 N	29° 24.53 N
					88° 41.20 W	88° 41.20 W
			30-56		29° 21.03 N	29° 20.94 N
					88° 36.97 W	88° 36.97 W
			31-52		29° 24.50 N	29° 24.42 N
					88° 32.48 W	88° 32.46 W

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
STA	INS				STA	SILENT 700 ASK
32-57	29° 20.75N				32-57	29° 20.67'N
	88° 28.50'W					88° 28.50'W
33-47	29° 28.32'	N			33-47	29° 28.26' N
	88° 28.48'	W				88° 28.48' W
34-46	29° 27.94'	N			34-46	29° 27.87N
	88° 36.68'	W				88° 36.68W
35-41	29°32.09'	N			35-41	29° 31.99'N
	88° 32.10'	W				88° 32.09'W
36-36	29° 35.93'	N			36-36	29° 35.84'N
	88° 28.41	W				88° 28.40'W
37-32	29° 40.00'	N			37-32	29° 39.88'N
	88° 23.78'	W				88° 23.82'W
38-28	29° 43.74'	N			38-28	29° 43.59'N
	88° 19.50'	W				88° 19.50'W
39-27	29° 43.35	N			39-27	29 43 23 N
	88° 28.67	W				88 28 69 W
40-24	29 47 28				40-24	29 47 14
	88 24 05					88 24 02
41-21	29 51 80				41-21	29 51 64
	88 19 75					88 19 72

END OF GYRE 81-6-1

SHIP/CRUISE NO./LEG GYRE/81-5/LEG II
CHIEF SCIENTIST RJ MILLER

LINE START / END	SP TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
100	1	81/4/18	126	6.6		
100	1 1928		136	6.2		12KHZ
					no	~~AIRGUN ORB.~~
	10 2123		127			3.5KHZ
						Sparker
						3.5KHZ DUP.
						Sparker DUP.
						12 KHZ
						3.5 KHZ
						Sparker
						3.5 KHZ Dup
						Sparker Dup
101	1 2223	81/4/6	318	6.4		12 KHZ
						3.5 KHZ
						Sparker
						3.5 KHZ Dup.
						Sparker Dup
	15 2244					Sparker
	17 2246					Sparker
	22 2252					Sparker
	31 2308					Sparker
	42 2322					Sparker
	42 2323					Sparker
	73 0010					Sparker SEA mac
	77 0013					Sparker SOM mac
101	75 0010					Airgun 5in³

SEE LOGBOOK GYRE 81-6-2 FOR