105018

GYRE 97006

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COASTAL AND MARINE SCIENCE AT THE
WOODS HOLE FIELD CENTER (WHFC)

384 Woods Hole Rd., Quissett Campus, Woods Hole, MA 02543-1598

SEISMIC/GEOPHYSICS LOG

SHIP AND CRUISE: GYRE 97-006

AREA: Gulf of Mexico

DATES: 4-4 - 4-15 97 Leg 1
4-15 - 4-24 1997 Leg 2

CHIEF SCIENTIST: Twichell

Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
SOL 2	4/9/97 099	UT			DGPS	4sec/25sec/20-500	/	1	NA	
2	4/9/97 099	UT			27°14.56362N 092° 35.7045W	4sec/25sec/20-500	/	1	NA	JB
	099	0530			27° 14.2730 92° 33.9083	4sec/25sec/20-500	1	1	NA	
	099	0600			27°14.0333 92° 32.1467	4sec/25sec/20-500	1	1	NA	
	099	0630			27° 13.7886 92° 30.2620	4sec/25sec/20-500	/	1	NA	
	099	0701			27° 13.554 92° 28.430	4sec/25sec/20-500	/	1	NA	
EOL 2	099	0709			27° 13.495 92° 27.968	4sec/25sec/20-500	/	1	NA	
	099	0731			27 12.630 92 27.028	4sec/25sec/20-500	/	1	NA	
	099	0800			27° 11.227 92° 27.504	4sec/25sec/20-500	/	1	NA	
SOL 3	099	0802			27. 11.19751 92° 28.01327	4sec/25sec/20-500	/	1	NA	
3	099	0840			27° 11.51794 92° 30.37796	4sec/25sec/20-500	/	1	NA	
3	099	0914			27. 11.79059 92. 32.51207	4sec/25sec/20-500	/	1	NA	
3	099	0944			27. 12.06723 92. 34.55714	4sec/25sec/20-500	/	1	NA	
3	099	1010			27. 12.38638 92. 36.94037	4sec/25sec/20-500	/	1	NA	
3	099	1041			27. 12.62207 92. 38.73073	4sec/25sec/20-500	/	1	NA	
3	099	1100			27. 12. P1195 92. 40. 16683	4sec/25sec/20-500	/	1	NA	CS.
3	099	1127			27. 13. 07570 92. 42. 14327	4sec/25sec/20-500	/	1	NA	
3	099	1158			27. 13. 38371 92. 44. 40796	4sec/25sec/20-500	/	1	NA	

Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
3	99	1227			27.13.67249 92.46.59945	4 sec/25 sec/20-500	/	1	NA	EOL 3 @ 1231
EOL 3 → TURN	99	1300			27.12.93950 92.47.11709	4 sec/25 sec/20-500	/	1	NA	TURN
SOL 4 →	99	1326			27.11.71030 92.46.69384	4 sec/25 sec/20-500	/	1	NA	SOL 4 @ 1325
4	99	1359			27.11.49447 92.45.15764	"	/	1	NA	
4	99	1446			27.11.38580 92.44.35823	"	/	1	NA	
4	99	1513			27.11.03330 92.41.6142	"	/	1	NA	
EOL 4	99	1544			27.10.8488 92.40.22526	"	/	1	NA	EOL 4 @ 1549
	99	1610								Pulled airgun in.
SOL 5	99	1806			27.08.90610 N 92.38.27587	"	/	1	NA	GUN IN SOL 5.
5	99	1837			27.07.73066 92.38.55157	"	/	1	NA	
5	99	1907			27.06.72134 N 92.37.84691	"	/	1	NA	—
5	99	1937			27.05.71796 N 92.37.10753	"	/	1	NA	—
5	99	2007			27.04.63968 92.36.47204	"	/	1	NA	—
5	99	2038			27.03.64564 92.35.64186	"	/	1	NA	—
5	99	2113			27.02.07950 092.34.74361	"	/	1	NA	—
5	99	2141			27.01.15714 N 92.34.11966	"	/	/	NA	—
5	99	2210			27.00.16416 N 92.33.48355	"	/	/	NA	—
5	99	2241			26.59.06062 N 92.32.72082	"	/	/	NA	—

Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
5	99	2303			26.58.3182 92.32.2623	4 sec / 25 sec / 20-500	/	1	NA	CS
5	99	2330			26.57.4191 92.31.5957	4 sec / 25 sec / 20-800	/	1	NA	none
5	100	0000			26.52.3560 92.30.9036	"	/	1	NA	—
5	100	0029			26.55.2523 92.30.1851	"	/	1	NA	—
SOL 6	100	0041			26.55.3035 92.20.5291	4 sec / 25 sec / 20-500	/	1	N/A	SOL 6
6	100	0511			26.54.9219 92.20.3350	"	/	1	N/A	
6	100	0530			26 54 9986 92 23 5337	"	/	1	N/A	
6	100	0600			26°54.9992 92°25.4430	"	/	1	N/A	
6	100	0630			26°55.0033 92°27.7867	"	/	1	N/A	
6	100	0700			26.54.9938 92.29.4831	"	/	1	N/A	
6	100	0734			26.54.9819 92.31.7943	"	/	1	N/A	
6	100	0804			26.54.9928 92.33.8479	"	/	1	N/A	
6	100	0830			26 54 9933 92 35 6592	"	/	1	N/A	
EOL 6	100	0850			26 55.0036 92 36.9972	"	/	/	NA	EOL 6
	100	0931			26 53.3103 92 38.9755	5 sec / 25 sec / 20-500	/	/	NA	~~SOL 7~~
	100	0951			26 52.4778 92 39.5109	"				~~Begin~~ middle of turn to Next Line
	100	1026			26°51.1390 92° 37.8093	"	/	/	NA	
	100	1033			26 51.0220 92 37.4134	"	/	/	NA	SOL 7

Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
7	100	1050			26°51.0032 -92° 36.4030	5sec/25 sec/20-500	1	1	NA	
7	100	1130			26° 50.9958 92° 33.9742	5sec/25sec/20-500	/	1	NA	CS
7	100	1153			26° 50.9960 92° 32.4340	5sec. /25sec. /20-500	/	1	NA	
7	100	1227			26° 50.9801 92° 30.3195	"	/	1	NA	
7	100	1256			26° 50.9934 92° 28.4849	"	/	1	NA	
7	100	1329			26° 50.9889 92° 26.4043	"	/	1	NA	
7	100	1400			26° 51.0014 92° 24.4115	"	/	1	NA	
	100	1427			26° 50.9956 92° 22.6990	"	/	1	NA	
	100	1457			26° 51.0080 92° 20.7500	"	/	1	NA	
EOL 7	100	1510			26 51.12 92 19.74					EOL
TURN	100	1527			26.52.0053 92.19.6809	"	/	1	NA	TURN
SOL 8	100	1542			26 53.04 92 20.04		/			SOL
	100	1556			26° 52.9968 92° 21.3181	"	/	1	NA	
	100	1627			26° 52.9948 92° 23.6853	"	/	1	NA	
	100	1653			26° 52.99525 92° 25.55843	"	/	1	NA	—
	100	1737			26° 52.99536 92° 28.76959	"	/	1	NA	
	100	1753			26° 52.99534 92° 29.9058	"	/	1	NA	—
	106	1824			26° 52.99202N 92° 32.13786	"	/	1	NA	—

Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
8	100	1854			26° 52.98670N 92° 34.29426	5sec/25sec/20-500	/	1	NA	
8	100	1924			26° 52.97653 92° 36.65874	"	/	1	NA	
EOL 8	100	1935			26° 53.00387 092 37.15667	"	/	1	NA	
IN TURN 9	100	1952			26° 52.87332 92° 38.21361	"	/	1	NA	
TRANSIT TO 9	100	2024			26° 52.24959 92° 40.27999	"	/	1	NA	
"	100	2054			26° 51.54771 92° 42.27086	"	/	1	NA	
"	100	2127			26° 50.68290 92° 44.27174	"	/	1	NA	
"	100	2155			26° 49.71097 92° 43.92735	"	/	1	NA	
"	100	2230			26. 48.3726 92. 42.2290	"	/	1	NA	
"	100	2253			26° 47.4812 92° 41.0813	"	/	1	NA	CS
SOL 9	100	2307			26° 47.1560 92° 40.2305	"	/	1	NA	
	100	2339			26° 46.9704 92° 38.1627	"	/	1	NA	
	101	0000			26° 47.0020 92° 36.6749	"	/	1	NA	
	101	0030			26° 46.9900 92° 34.4546	"	/	1	NA	
	101	0100			26° 46.98175 92° 32.41300	"	/	1	NA	JEx
	101	0127			26° 46.99583 92° 30.20438	"	/	1	NA	
	101	0135				"	/	1	NA	Guns misfiring COMPRESSOR PROBLEM
	101	0155			26° 46.98980 92° 27.92548	"	/	1	NA	Mudsea JD off Reset Date JD correct NOW

Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
9	101	0207			26 47.00 92 27.21	5 sec/25 sec/20-500	/	1	NA	RESTART SHOTS
9	101	0246			26° 46.99586 92° 25.10954	"	/	1	NA	—
9	101	0255			26° 46.99698 92° 23.53211	"	/	1	NA	—
9	101	0325			26° 46.99180 92° 21.24111	"	/	1	NA	—
9	101	0354			26° 47.00863 92° 18.98113	"	/	1	NA	—
9	101	0423			26° 46.99305N 92° 16.98694	"	/	1	NA	—
EOL 9	101	0448			26° 47.00845 92° 14.92123	"	/	1	NA	—
TURN	101	0527			26° 44.8953 92° 13.8418	"	/	1	NA	CS
	101	0557			26° 43.0940 92° 13.1940	"	/	1	NA	
	101	0625			26 41.8380 92 13.8360	"	/	1	NA	
10	101	0659			26 41.4970 92 15.9800	"	/	1	NA	SOL 10 @ 0645
10	101	0727			26 41.4950 92 17.8860	"	/	1	NA	—
	101	0758			26 41.4980 92 19.9550	"	/	1	NA	
	101	0827			26 41.5000 92 21.8900	"	/	1	NA	
	101	0901			26° 41.5177 92° 24.0444	"	/	1	NA	
	101	0931			26 41.4999 92° 26.0375	"	/	1	NA	
	101	1000			26° 41.5086 92° 27.8898	"	/	1	NA	
EOL 10	101	1034			26° 41 50 42 92° 30.0353	"	/	1	NA	EOL 10

Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
TRANSIT	101	1102			26° 40.1770 92° 30.4460	5sec/25sec/20-500	/	1	NA	TRANSIT to L11
	101	1129			26° 38 0954 92° 30 5259	"	/	1	NA	
	101	1159			26° 36.9248 92° 30.7164	"	/	1	NA	
	101	1227			26° 35.2820 92° 30.7892	"	/	1	NA	
SOL 11	101	1302			26° 33.59102 92° 30.31014	"	/	1	NA	SOL 11
	101	1329			26° 33.36975 92° 28.11412	"	/	1	NA	
	101	1402			26° 33.39007 92° 25.53163	"	/	1	NA	
	101	1430			26° 33.39405 92° 23.33693	"	/	1	NA	
	101	1500			26° 33.38565 92° 21.03836	"	/	1	NA	
	101	1530			26° 33.39020 92° 18.73454	"	/	1	NA	
	101	1601			26° 33.33388 92° 16.38004	"	/	1	NA	
	101	1630			26° 33.37478 92° 14.34922	"	/	1	NA	
	101	1656			26° 33.38296 92° 12.21056	"	/	1	NA	
	101	1742			26° 33.3830 92° 8.8010	"	/	1	NA	CS
	101	1804			26° 33.3930 92° 7.1940	"	/	1	NA	
	101	1830			26° 33.3870 92° 5.2670	"	/	1	NA	
	101	1859			26° 33.3950 92° 3.1330	"	/	1	NA	
	101	1927			26° 33.4010 92° 1.1560	"	/	1	NA	

Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
EOL 11	101	1947			26° 33.4' N 91° 59.6 W	6 SEC / 25 SEC / 20-300 Hz	/	1	NA	EOL 11 ✓
TURN	101	1959			26° 33.0020 91° 59.1220	"	/	1	NA	TURN
SOL 12	101	2028			26° 31.6190 92 0.1300	"	/	1	NA	SOL 12 ✓
	101	2104			26° 31.6798 92° 02.7955	"	/	1	NA	
	101	2131			26° 31.6916 92° 04.7866	"	/	1	NA	
	101	2200			26 31 6907 92 07.0180	"	/	1	NA	
	101	2258			26 31.6964 92 11 2636	"	/	1	NA	
	101	2332			26 31.6917 92 13.8611	8 sec "	/	1	NA	
	102	0016			26° 31 6800 92° 16.9474		/	1	NA	
	102	0035			26° 31.6770 92° 18.3333	"	/	1	NA	
	102	0125			26. 31. 6780 92 21. 8760	"	/	1	NA	
	102	0156			26. 31. 6860 92. 23. 9790	"	/	1	NA	
	102	0229			26° 31. 6820 92° 26. 2130	"	/	1	NA	
	102	0256			26° 31. 6850 92° 28. 0470	"	/	1	NA	
	102	0328			26° 31. 6890 92° 30. 3760	"	/	1	NA	
	102	0357			26° 31. 6990 92° 32. 6450	"	/	1	NA	
	102	0427			26° 31. 6990 92° 34. 9960	"	/	1	NA	
EOL	162	0454			26° 31. 10920 92° 36. 91035					

Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
TURN	102	0528			26. 34.4790 92 36.9080	8sec/25sec/20-300	X	1	NA	CS
SOL 13	102	0532			26 34.5360 92 36.7280	"	/	/	NA	SOL
13	102	0557			26 34.4900 92 35.2200	"	/	1	NA	—
13	102	0627			26 34.5000 92 32.2920	"	/	1	NA	
13	102	0658			26 34.4900 92 31.1180	"	/	1	NA	
13	102	0728			26 34.4770 92 29.0770	"	/	1	NA	
13	102	0757			26 34.4700 92 26.9760	"	/	1	NA	
13	102	0829			26 34.4950 92 24.5870	"	/	1	NA	
13	102	0855			26 34.4810 92 22.5780	"	/	1	NA	
	102	0939			26 34.4770 92 19.5470	"	/	1	NA	
	102	1002			26° 34.4780 92° 17.4160	"				
	102	1030			26° 34.4560 92° 15.1460	"				
	102	1058			26° 34.4800 92° 12.8510	"				
	102	1130			26° 34.4880 92° 10 23 40	"	/	1	NA	
	102	1157			26° 34.4780 92° 8.0190	"	/	1	NA	
	102	1229			26° 34.4980 92° 5.4360	"	/	1	NA	
	102	1259			26° 34.4960 92° 2.9250	"	/	1	NA	
	102	1332			26°. 34. 50027 92°. 00. 42686	"	/	1	NA	EOL

	Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
SOL	14	102	1335			26° 34.43292 92° 00.62804	8 sec / 25 sec / 20-300	/	1	/	SOL 14
	14	102	1405			26° 33.04060 92° 00.83281		/	1	/	—
	14	102	1434			26° 31.67927 92° 01.04264	"	/	1	/	—
	14	102	1504			26° 30.03312 92° 02.52748	"	/	1	/	—
	14	102	1534			26° 28.63055 92° 03.34228	"	/	1	/	—
EOL	14	102	1544			26° 28.14184 92° 03.65107	"	/	1	/	EOL 14
SOL	15	102	1544			26° 28.14184 92° 03.65103	"	/	1	/	SOL 15
	15	102	1604			26° 27.89907 92° 04.63676	"	/	1	/	—
	15	102	1632			26° 27.9990 92° 06.0710	"	/	1	/	—
	15	102	1730			26 27.9920 92 8.6080	"	/	1	NA	CS
	15	102	1757			26 27.9950 92 10.2130	"	/	1	NA	—
	15	102	1828			26 27.9920 92 12.2860	"	/	1	NA	—
SOL→	16	102	1857			26 28.4940 92 13.3590	"	/	1	NA	SOL 16
	16	102	1928			26 30.1690 92 12.0450	"	/	1	NA	—
	16	102	1957			26 31.8920 92 11.3430	"	/	1	NA	—
	16	102	2029			26. 33.5300 92 10.6310	"	/	1	NA	—
	16	102	2100			26 35.0170 92 10.0060	"	/	1	NA	—
	16	102	2130			26° 36.6840 92° 9.2730	"	/	1	NA	—

Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
16	102	2203			26° 38.4220 92° 8.5220	8sec/25sec/LO-200		1	NA	
16	102	2231			26° 39.9290 92° 7.8850	"		1	"	
"	"	2300			26° 41.4200 92° 7.2390	"		1		
EOL16	102	2311			26° 42.0400 92° 6.9890	"		1		EOL 16
TRANSIT	102	2330			26° 42.7180 92° 7.8370	"		1		
SOL17	103	0000			26° 43.2710 92° 9.5100	"		1		SOL17
	103	0030			26° 41.2530 92° 10.3400	"		1		
	103	0057			26° 39.4260 92° 11.2090	"		1		
	103	0122			26° 37.3932 92° 12.18058	"		1		
	103	0158			26° 35.43636 92° 13.06859	"		1	NA	
	103	0228			26° 33.42930 92° 13.99933	"		1	NA	
	103	0258			26° 31.55585W 92° W. 88019	"		1	NA	
	103	0328			26° 29.61033 92° 15.76370	"		1	NA	
	103	0358			26° 27.46949 92° 16.63828	"		1	NA	
EOL17	103	0409			26° 27.02884 92° 16.97987	"		1	NA	
SOL18	103	0421			26° 26.97482 92° 17.45620	X		1	NA	
	103	0451			26° 28.28354 92° 17.19459	"		1	NA	
	103	0530			26 30.4970 92 16.7340	"		1	NA	

Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
18	103	0556			26 32.0410 92 16.4040	8sec/25sec/20-300	—	1	NA	—
18	103	0628			26 30.0800 92 15.9750	"	—	1	NA	—
EOL 18	103	0706			26 36.3620 92 15.4640	"	—	1	NA	SOL 19
SOL 19	103	0730			26 35.9170 92 15.1370	"	—	1	NA	—
19	103	0800			26 37.1480 92 16.5430	"	—	1	NA	—
19	103	0830			26 [illegible] 92 17.9760	"	—	1	NA	—
19	103	0857			26 39.7570 92 19.3650	"	—	1	NA	—
"	"	0933			26 41.2370 92 20.9760					
		0955			26 42 1720 92 21.9790					L913 (start file)
	"	1001			26° 42.4430 92° 22.2995					
		1033			26 43.7380 92 23.7200					
		1104			26 45.0170 92 25.1200					
20	103	1106			26 45.1030 92 25.2000					EOL 19 SOL 20 DOGLEG
		1130			26 46.1790 92 26.0880					
		1200			26°47.4710 92°25.1570					
		1230			26° 48.7240 92° 28.1820					
		1250								LOW ON OIL (compressor)
		1300			26 50.0080 92 29.2980					

Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
	105	2145								Depart Galveston for Leg 2
	106	1757					#7 NAV			start NAV disk logging
	106	1807				1sec/1sec / 5ms pulse	Line 1	1		SOL 1
	106	1825			27° 6.4947 92° 43.8155	no annotation op EPC so hand marking and recording				mark record.
		1830			27° 6.6128 92° 43.4930					mark record
		1840			27° 6.8903 92° 42.7055					mark
		1850			27° 7.1716 92° 41.9183					mark
		1900			27° 7.4444 92° 41.1183					mark
		1910			27° 7.7307 92° 40.3304					mark
		1920			27° 8.0079 92° 39.5415					mark
		1930			27° 8.2894 92° 38.7340					mark
		1940			27° 8.5653 92° 37.9304					mark
		1950			27° 8.8468 92° 37.1478					mark
		2000			27° 9.1524 92° 36.3332					mark
		2010			27° 9.4225 92° 35.5395					mark
		2020								EOL
		2140			27° 9.0098 92° 36.7627					CORE IN water

Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
		2202			27° 9.0131 92° 36.7612	~35m range to target				core on bottom
	106	2320			27° 9.6521 92° 36.7533					heading to sta 2
		2331			27 8.6223 92 38.5996					
		2340			27° 8.0856 92 39.6622					
		2353			27° 7.9782 92° 39.6947					core started down
	107	0016			27° 8.0058 92° 39.7133	~25 range to target				core on bottom
		0037			27 ~~7.857~~7.7856 92 39.7789					on deck - core2
	107	0140			27 7.8863 92 40.0123					On station #3
		0145			27 7.8419 92 40.0694					core started down
		0207			27 7.8967 92° 40.0131	~22.7m range to target				core on bottom
		0227			27° 7.8724 92° 40.1059					core 3 on board
		0250			27° 7.6504 92° 39.8863					head to 3.5 survey
2	107	0401			27 7.2115 92 39.7764	starting 3.5 survey				mark SOL 2
		0310			27° 6.0597 92° 39.5206	1sec / 1sec / 5ms pulse				mark
		0320			27° 4.5966 92° 39.1988					mark
		0330			27° 3.1196 92° 38.8700					mark
		0340			27° 1.6265 92° 38.5455					mark
		0350			27° 0.1272 92° 38.2147					mark

Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
2	107	0400			26° 58.7721 92° 37.9140	1sec/1sec/5ms pulse	NAV DISK 7	1		3.5 khz survey
		0410			26° 57.4651 92° 37.6346					
		0420			26° 56.7714 92° 37.4821					
		0426				momentary lapse in navigation. S/N ratio dropped dramatically, then came back strong & switched back to DGPS				switch to pcode
		0429								switch back to DGPS
		0430			26° 55.9235 92° 37.3026					
2	107	0436			26° 55.3906 92° 37.1643	Barry's nav once again kicked into range & bearing mode				EOL 2
		0440			26° 55.2225 92° 37.4205					IN TURN
3	107	0444			26° 55.4588 92° 37.3447	1sec/1sec/5ms pulse	NAV DISK #7	1		SOL 3.
		0450			26° 55.6782 92° 36.7088					attempting survey @ 9 kts
		0500			26° 56.1859 92° 35.2686					
		0510			26° 56.7147 92° 33.8350					
		0520		8.4	26° 57.2262 92° 32.3814					
		0530			26° 57.7561 92° 30.9160					
		0540		8.5	26° 58.2822 92° 29.4089					
		0550			26° 58.7973 92° 27.9612					
		0600			26° 59.3298 92° 26.4874					
3		0605					NAV DSK 7	1		EOL 3

Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
4	107	0610	296		DGPS 26° 59.4733 92° 25.9157	1 sec / 1 sec / 5 mis pulse	NAV DISK 7	1		SOL 4
		0620			27° 0.1396 92° 27.4680					
		0630	296		27° 0.7791 92° 28.9781					
		0640			27° 1.4274 92° 30.4103					
		0650			27° 2.0812 92° 31.9288					
4	107	0653								EOL 4
5		0658	182		27° 2.4233 92° 32.3864	11	NAV DISK 7	1		SOL 5
		0700			27° 2.2810 92° 32.3933					
		0710			27° 0.8279 92° 32.4892					
		0720	183	8.6	26° 59.3759 92° 32.6014					
		0730			26° 57.9181 92° 32.7043					
		0740	183	8.7	26° 56.4625 92° 32.8025					
		0746:30			26° 55.6255 92° 32.8594					core loc?
		0750			26° 55.0256 92° 32.9000					
5	107	0800			26° 53.6015 92° 32.9960					EOL 5
		0805								Underway to core site 4
		0830								On station 4
	107	0903			26° 55.8858 92° 32.8106					core down

Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
Sta 4	107	0937			26° 55.8769 92° 32.8256	range 87m brg – 25°	Nav disk 7	1		core on bottom
		0951								Surface
6	107	1045					Nav disk 7	1		SOL 6
		1050			26° 56.0962 92° 31.5742	1sec / 1sec / 5ms pulse				
		1100			26° 56.2928 92° 30.4625					
		1110	79.5		26° 56.5010 92° 29.2219					
		1120			26° 56.6631 92° 28.2580					EOL 6
7		1127			26° 56.5672 92° 27.9429		Nav disk 7	1		SOL 7
		1130	182.7	8.3	26° 56.2530 92° 28.0092					
		1140			26° 54.8239 92° 28.0962					
		1150	180.7	8.3	26° 53.4693 92° 28.1735					
		1200	182.7		26° 52.0158 92° 28.2434					
		1210			26° 50.6162 92° 28.3172					
		1220			26° 49.2526 92° 28.3931					
		1230			26° 47.8405 92° 28.4747					
7		1235								EOL 7
8		1249	90	8.3	26° 47.2827 92° 29.8595		Nav disk 7			SOL 8
		1300			26° 47.1979 92° 27.9847					

Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
8	~~107~~ 109	1310	89	8.2	26° 47.2004 92° 26.6517	1sec / 1sec / 5ms pulse	Nav disk 7	1		Line 8
		1320			26° 47.1979 92° 25.4134					
		1330			26° 47.2018 92° 23.5038					
		1340			26° 47.1997 92° 22.0921					
		1344								EOL 8
9		1351			26° 47.6524 92° 21.5801		Nav disk 7			SOL 9
		1400			26° 47.6804 92° 22.6897					
		1410			26° 48.1443 92° 23.8555					
		1420			26° 48.6888 92° 25.2125					
		1430			26° 49.2444 92° 26.6217					
		1440			26° 49.7511 92° 27.8624					
9		1444			26° 49.9043 92° 28.2673					EOL 9
		1445								on station
		~~1627~~								Winch not working
		1627					Nav disk 7			nav disk off
	109	~2000				3.5	Nav disk 8			Nav disk on
		2110			26° 49.9598 92° 26.2744	150m E of target				PCS in water - going down.

Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
	109	214345			26° 49.7356 92° 28.3452	1 sec / 1 sec / 5 ms pulse	NAV DISK #8	~8.6m	east of target	PC5 hits
		2239			26° 49.9096 92° 28.4379					head for sta 6 - E side of fault
		2319			26° 50.4164 92° 27.6642					PC6 in water
		2358			26° 50.4143 92 27.6781					PC6 HITS
	110	0052			26° 51.1650 92° 27.2653	1 sec / 1 sec / 5 ms pulse				start 3.5 surveying
seismic line 0		0141				going from WP 19 to 20, discovered 20 was entered wrong. corrected & now adjusting				
		0240								EOL 10 heading for core sight
		0335			26° 46.0121 92° 24.4842					PC7 in the water
		0411			26° 45.9968 92° 24.4631	~60m from target site				PC7 hits
		0540								on station 8
		0555								moving to diff waypoint
		0604								on station wp23
		0611								PC8 in water
		0648			26° 46.0162 92° 28.2607	~27m from target				PC8 on bottom
11		0746				1 sec / 1 sec / 5 ms pulse	Nav disk 8			SOL 11
11/12		0835					Nav disk 8			EOL 11 / SOL 12
12		0933								EOL 12
13	110	0935								SOL 13

Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
13	110					(sec | 1sec | 5 ms pulse	Nav disk 8			
13		1028								EOL 13
14		1032					Nav disk 8			SOL 14
14	~~110~~	1213								EOL 14
15	110	1216					Nav disk 8			SOL 15
		1322								EOL 15
		1333								SOL 16
16	110	1426								crossed line 14
		1451					Nav disk 8			EOL 16
17		1455								SOL 17
17		1520								EOL 17
		1522								on station 9
		1528			26° 34.6668 -92° 13.3459					PC9 in water
PC9		1614:30			26° 34.5643 -92° 13.5084					PC9 on bottom
PC10		1739			26° 33.6116 -92° 13.9214		NAV DISK 9			PC10 in water
		19:21:39			26° 33.5787 -92° 13.9320					PC10 on bottom
PC11		19:55			26° 32.7985 92° 14.2659					PC11 in water
		0:48:34			26 32.8379 92 14.3116	~6m from target				PC11 on bottom

Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
PC12	110	2306			26°30.5543 92° 15.3578	1sec/1sec/5 ms pulse	NAV DISK #9			PC12 in water
PC12	110	2358			26° 30.5340 92° 15.3634	~30.1 m from target				PC12 HITS
PC13	111	01:35:39			26° 33.0286 92° 10.1620					PC13 in water
PC13	111	02:23:49			26° 33.0084 92° 10.2727	~44 m range to target				PC13 HITS
		0321								switch to pcode
		0346								back to DGPS
PC14	111	0352			26° 33.2377 92 11.7931					PC14 in water
		0355								PCODE
PC14	111	04:40:45			26° 33.2310 92° 11.7970	~40 m range to target				PC14 HITS
18	111	0607					NAV disk 9			SOL 18
		0706								EOL 18
19	111	0753								SOL 19
19		0800			26°37.5140 92°17.5790					
19		0805			26°37.0430 92°17.9110					
		0810			26°36.5100 92°18.3210					
		0815			26°35.9190 92°18.7550					
EOL19		0821								EOL 19
SOL20		0821								SOL ~~19~~ 20

Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
20	111	0843			26° 32.4440 92° 19.1860	1sec / 1sec / 5ms pulse	Nav disk 9			
		0850			26 31.4660 92 19.9170					
		0900			26 30.0940 92° 19.1810					
		0910			26° 28.8410 92° 19.1940		Nav disk 9			lost nav - crashed
		0926					Nav disk 10			nav back on DGPS
21		0938			26°27.2569 92°19.2338					DGPS
		0940			26° 27.5314 92° 19.3089					
		0945			26 28.09 92 19.74					
		0950			26° 28.6939 92° 20.0669					
		0954								switch to PCODE
		0955			26° 29.3040 92° 20.4420					
		1000			26° 29.9060 92° 20.7890					
		1005			26° 30.5190 92° 21.1530					
		1010			26° 31.1310 92° 21.5060					
		1015			26° 31.7340 92° 21.8840					
		1020			26° 32.3510 92° 22.2260					
		1025			26° 32.96 92° 22.6					
21		1032			26° 33.8160 92° 23.1130					EOL 21

Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
22	111	1035			26° 33.8070 92° 23.0710	1 sec / 1 sec / 5 ms pulse	Nav disk 10	1		SOL 22
		1040			26° 33.1730 92° 23.0940					PCODE GPS
		1045			26° 32.5280 92° 23.1020					
		1050			26° 31.8780 92° 23.0956					
		1055			26° 31.2400 92° 23.0950					
		11:00			26° 30.5910 92° 23.1010					
		11:05			26° 29.9350 92° 23.0890					
		11:10			26° 29.2880 92° 23.0940					
		11:15			26° 28.6370 92° 23.0920					
		11:20			26° 27.9840 92° 23.0950					
22		1125			26° 27.3230 92° 23.1					EOL 22
23		1128	270	7	26° 27.2940 92° 23.041		Nav disk 10	1		SOL 23
		1130			26° 27.316 92° 23.301					
		1135			26° 27.35 92° 24.991					
		1140			26° 27.388 92° 24.69					
		1145			26° 27.426 92° 25.39					
		1150			26° 27.4650 92° 26.0640					
		1155			26° 27.4960 92° 26.765					

Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
23	111	1200			26° 27.535 92° 27.449	1sec/1sec/5ms pulse	Nav disk 10	1		using PCODE
23	111	1205			26° 27.5830 92° 28.2580					
		1210			26° 27.6280 92° 28.4160					
		1215			26° 27.6500 92° 29.5430					
		1220			26° 27.696 92° 30.228					
23		1222								EOL 23
										Transit to core site 15
PC15		1258								on station PC 15
PC15		1305:30			26° 27.461 92° 25.256					PC 15 in water
		1341			✓					switch DGPS
PC15		1348			26° 27.4508 -92° 25.3853					PC 15 on bottom
		1450								underway to next site
24		1505			26° 27.391 92° 23.1704					WP 41 SOL 24
		1523:30								Xing core site WP 44
		1545								EOL 24
		1547								Turning south to WP 45 sta PC 16
PC16		1555								on station PC 16
		1600			26° 29.9172 92° 23.0341					PC 16 in water

Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
PC16	111	16:41:20			26° 29.9345 92° 23.0945	2 sec / 1sec /	Nav disk 10	2		PC16 on bottom DGPS
PC17	111	18:08:29			26° 28.3371 92° 19.8160					PC17 in water
PC17	111	18:53:29			26° 28.3330 -92° 19.8351	~70m range to target				PC17 HITS
PC18	111	20:17			26° 29.4993 92° 19.1541					PC18 in water
PC18	111	20:53:24			26° 29.4654 92° 19.1823	~30m range from target				PC18 HITS
PC19	111	2255			26° 35.7799 92 18.2467					PC19 in water
PC19	111	23:30:24			26° 35.7943 92° 18.2710	~48m range from target				PC19 HITS
Transit	112	0030								Start 3.5 survey.
SOL24		0121			26° 32.9850 92° 8.1089					
EOL24		0158								
SOL25		0201								
EOL25		0216								
SOL26		0220								
EOL26		0257								
SOL27		0302								
		0330				2sec/2sec				
		0339				doglegs				c/c 208° switch to PCODE
		0340:35								

Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
27	112	0407				2sec/2sec	NAV DISK #10			EOL 27
28		0410								SOL 28
	112	0435				1 sec/1sec				change fire rate & sweep
PC20		0528								on station PC 20
PC20		0534			26°21.971 -91°55.164					core in water
PC20		0613			26° 22.004 -91° 55.2130					PC 20 on bottom
		0708								underway to sta PC 21
PC21		0747								on station PC 21
		0753								in water
PC21		0835:30			26°22.008 -91°59.184					on bottom
		0933								underway to Sta PC 22
PC22		1025								on station
		1030			26°28.502 -91°59.987					in water
PC22		1108:30			26°28.5230 -91°59.9880		New disk 10			hit bottom
		1127					Nav disk 11			new nav disk #11
		1200				1sec/1sec				switch to DGPS underway to sta PC 23
		1240				~~2sec~~ 2sec/2sec				on station PC 23 2 sec sweep
		1249			26°28.5698 -92° 2.3623					in water

Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
PC23	112	1334:50			26°28.5250 -92° 2.3942	2 sec / 2 sec	Nav disk 11			PC23 hit bottom
		1430				1 sec / 1 sec				underway sta PC24
PC24		1523								on station PC24
PC24		1529			26° 31.3923 -92 9.8307					core in water
		1609:30			26°31.3292 -92° 8.07					PC24 hit bottom
PC25		~~1609~~			26° 30.4205 92° 5.9930					PC25 in water
PC25	112	1909			26 30.4020 92 6.1112	~ 1 m range from target				PC25 on bottom
PC26	112	2340			26° 20.8787 92° 17.2126					PC26 in water
PC26	113	0029			26° 20.9456 92° 17.2245					PC26 HITS
PC27	113	0155			26° 17.4484 92° 16.9391					PC27 in water
	113	0227								switched to Pcode
PC27	113	0242			26° 17.4950 92° 16.9880	~ 25 m range to target				PC27 HITS
		0258								back to DGPS
		0450								change to pcode
PC28		0624								on station PC28
PC28		0633:37			26° 27.6260 -92° 30.3290					going down
PC28		0716			26° 27.6950 -92° 30.2340					hit bottom
EL	113	0810								underway to sta PC24

Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
	113	1018					Nav disk 11			on station PC 29
PC29		1026			26° 39.2010 92° 19.447					going down
PC29		1118:30			26° 39.212 92° 19.344					PC 29 hit bottom
							Nav disk 12			change nav disk
PC30		1240								on station
PC30		1246			26°40.471 92°19.874					going down
PC30		1338.5			26°40.490 92°19.843					hit bottom PC30
~~29~~							Nav disk 12			~~SOL 29~~ switch to DGPS
29		1440				2sec/2sec				SOL 29
		1450				1sec/1sec				try 1 sec sweep
		1710								wp 89-69 slight course change
EOL 29		1818								new wp for line 30
30		182030								SOL 30
		1844								EOL 30
31		1847								SOL 31
31		1919								EOL 31 transit to line #31
PC31		1949:44			26° 55.9043 92° 2.7012					PC31 in water
		20:24:34			26°55.8793 92° 2.6817	~3m range to target				PC31 HITS

Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
PC32	113	2146			26° 54.6579 92° Ø3.9800	1sec / 1sec /	NAV DISK12			PC32 in water
		22:22:44			26° 54.5902 92° Ø3.9695	~54m range to target				PC32 HITS
		2331				wrong waypoint, need to change course				
PC33	113	2353			26° 57.4135 92° 02.9557					PC33 in water
PC33	114	0029			26° 57.3825 92° Ø2.9818	~29m m range to target				PC33 HITS
PC34	114	0216			26° 52.6648 92° 5.5977					PC34 in water
		0226				~~[illegible]~~				Changed to PCODE
PC34		0243			26° 52.6810 92° Ø5.6320	~51				PC34 HITS
0328										Start 3.5 transit
0430										c/c 000 to check ship
0642					27° 12.2080 92° 20.6680					start line 32
Line32		0800								EOL 32
PC35		0838								on station PC35
PC35		0846			27°6.675 92° 28.307					PC35 in water
PC35		0916:30			27°6.672 -92°28.306					PC35 hit bottom
		0955								underway PC36
~~PC36~~		~~1026~~								~~on station~~
		1026								switch to DGPS

Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
PC36	114	1056					Nav disk 12			on station PC 26
PC36		1104			27°7.9022 -92°40.028					PC36 in water
PC36		1128:30			27°7.9047 -92°40.0249					P36 on bottom
PC37		1218:30								on station
										circling to run transect - need to check depth - station is on slope
		1238								start transect
		1250								going back to new sta. PC37
PC37		1307								on station PC37
	1314	~~1400~~			27°7.6042 -92 42.9844					in water PC37
~~PC37~~	ok				27°7.5267 -92°43.0327					hit bottom
SOL 33	~~1414~~	1410								SOL 33
33		1506								EOL 33
		1521					Nav disk 13			new nav disk
		1530								on station PC38
		1606			27°6.4505 -92°37.4439					PC38 hit bottom
SOL34		1730								Line 34
		1805								switch to pcode

Line#	YrMoDy +JulDy	Time +Zone	Crs	Spd	Navigation	Seismic System Sweep/Fire/Filters	Tape# Disk#	Roll#	Magnets Gravity	Comments
	114	1913								Switch to DGPS