

MUD95 AND RIO95 line log  
08/19/95

John Anderson's (Rice U.) Gulf of Mexico project.  
From RIO '95, '96 binder

Lines (1A-40C are MUD95- lines):

1A	15C	RIO95-5B	RIO95-21A
1B	16A	RIO95-7A	RIO95-21B
1C	17A	RIO95-7B	RIO95-21C
2A	17B	RIO95-8A	RIO95-20A
3A	18A	RIO95-9A	RIO95-19A
3B	18B	RIO95-9B	RIO95-19B
4A	18C	RIO95-9C	RIO95-17A
5A	19A	RIO95-10A	RIO95-17B
5B	19B	RIO95-11A	RIO95-17C
6A	20A	RIO95-11B	RIO95-24A
7A	20B	RIO95-12A	RIO95-24B
7B	26A	RIO95-13A	MUD95-15X
8A	26B	RIO95-15A	RIO95-42A
9A	40A	RIO95-15B	RIO95-42B
9B	40B	RIO95-16A	RIO95-42C
9C	40C	RIO95-16B	RIO95-26A
10A			RIO95-25B
11A	RIO95-01A	MUD95-50A	RIO95-25C
11B	RIO95-01B	RIO95-99A	RIO95-27A
11C	RIO95-2A	RIO95-18A	RIO95-18C
12A	RIO95-2B	RIO95-18B	RIO95-18D
13A	RIO95-3A	RIO95-15A	RIO95-23B
13B	RIO95-3B	RIO95-16C	RIO95-23C
14A	RIO95-4A	RIO95-23A	RIO95-23D
15B	RIO95-5A	RIO95-22A	

Starting date: 1995-08-19

Starting latitude, longitude: 28° 43.260' -95° 34.314'

Ending date: 1995-09-13

Ending latitude, longitude: 26° 10.2' -97° 01.5'

Firing Rate: 3s

Geophones: ITI streamer

Source: 15<sup>3</sup>in

Elics

air 2500 psi

l = local time

p 1

Line name: <u>Mud 95-1A</u>	Energy: <u>J/PSI</u>	Tape #: <u>1</u>
Descr: <u>MUD 95</u>	Firing Rate: <u>3s</u>	Filter: <u></u>
Date: <u>08/19/95</u>	Geophones: <u>ITI streamer</u>	Source: <u>15 H<sub>2</sub>O ci</u>

Time	SP/Fix	LAT.	LONG.	WD (m)	Ship spd/dir	Nav. system	Notes
0345		28°43.260'N	95°34.314'W				
0445		28°38.440'N	95°40.606'W		8.1 kts	Elics = trimble	transversing to WP 1
0500		28°36.058'N	95°43.588'W			EPC = Furuno	" "
0600		28°29.611'N	95°50.851'W		10 kts		" "
0706		28°26.026'N	95°56.790'W		2.7 kts		" "
GMT							
1245	1	28°24.45'N	95°58.55'W		6.0 kts		
1300	2	28°23.019'N	95°58.011'W		5.5 kts		SOL MUD 95-1A
1330	3	28°20.113'N	95°50.600'W		6.0 kts		"
1345	4	28°18.476'N	95°55.945'W		6.0 kts		EPC - gain 90 dB
1400	5	28°16.979'N	95°55.315'W		6.0 kts		Filter 150-1500
1415	6	28°15.9'N	95°54.7'W		6.7		scale 10, scan 500s
1430	7	28°13.9'N	95°54.0'W		6.5		key rate 3.0s
1445	8	28°12.5'N	95°53.9'W		6.8		
1500	9	28°10.9'N	95°52.8'W		6.6		Elics - ext. gain 60 dB
1515	10	28°09.4'N	95°52.1'W		6.3 kts		int. AGC gain 2 (dB?)
1530	11 (12?)	28°07.8'N	95°51.4'W		6.5 kts		no ext. filter
1545	13	28°06.2'N	95°50.8'W		6.2 kts		
1600	14	28°04.7'N	95°50.2'W		6.3 kts		
1615	15	28°03.1'N	95°49.5'W		7.9 kts		
1630	16	28°01.5'N	95°48.8'W		7.0 kts		
1645	17	27°59.9'N	95°48.15'W		6.8 kts		
1647	1	27°59.7'N	95°48.1'W				EOL MUD 95-1A
1700	2	27°58.3'N	95°47.4'W		6.8 kts		
1715	3	27°56.7'N	95°46.7'W		7.0 kts		SOL MUD 95-1B
1730	4	27°55.2'N	95°45.96'W		7.1 kts		EPC - gain = 90 dB
1745	5	27°53.6'N	95°45.2'W		6.5 kts		Filter 150-1500
1800	6	27°52.0'N	95°44.55'W	60m	6.0 kts		scale 10, scan 500s
1815	7	27°50.4	95°43.9	62m	6.2 kts	152°	Elics - ext. gain = 60 dB
1830	8	27°48.8	95°43.3	64m	6.2 kts	155°	int. AGC gain = 1
1845	9	27°47.3'N	95°42.6'W	69m	6.1 kts	155°	no ext. filter
1900	10	27°45.773'N	095°41.975'W	74m	6.2 kts	154°	Lpi 100
1915	11	27°44.319'N	095°41.399	79m	6.9 kts	158°	
1927					6.5 kts	155°	New watch LAB
1930	12	27°42.844	095°40.858	144m			heading to modern shelf break
1939		27°41.824	95°40.99	153m	6.5 kts	161°	increase Elics gain to 2, deeper H <sub>2</sub> O, less signal
1954		27°40.720	95°40.069	153m	6.0	156	add 100ms delay to EPC
					4.0		EOL MUD 95-1B SOL 95-1C trace length 800ms
							EOL 95-1C

? too shallow

↳ H<sub>2</sub>O getting too deep; playing w/ gains



gun - 2600 psi

C = calculated from  
sed-H<sub>2</sub>O interface  
F = furuno

p. 1

Line name: <u>MUD95-2A</u>	Energy: <u>J/PSI</u>	Tape #: <u>        </u>
Descr: <u>MUD95</u>	Firing Rate: <u>3s</u>	Filter: <u>        </u>
Date: <u>08/20 - 08/21</u>	Geophones: <u>IT1 streamer</u>	Source: <u>15 H<sub>2</sub>O ci</u>

Time	SP/Fix	LAT.	LONG.	WD (m)	Ship spd/dir	Nav. system	Notes
2000	01	27°40.551	095°40.610	?	5.0 kts	250°	ext. gain 64 dB P trace length 800ms
2015	02	27°40.312	095°42.058	?	6.3 kts	267°	SOL MUD95-2A WP2 AGC difficulties w/ the Elics, the H <sub>2</sub> O column is very noisy EPC - ext gain 84 dB + 10 dB int delay 250ms scan rate .5s very hot. 3s LPI=100
2020							
2030	03	27°40.050	095°43.510	246 C			Monitors 55 kts filter 150-1500
2045	04/960	27°39.860	095°45.009	169 C	4.8 kts	256°	EPC delay changed from 250ms → 100ms
2100	05/1225	27°39.614	095°46.414	153 F	5.0 kts	256°	
2115	06/1540	27°39.322	95°48.016	149 F	4.8 kts	260°	increase speed to 6.0 kts
2130	07/1835	27°39.029	095°49.473	147 F	5.2 kts	260°	
2145	08/2132	27°38.725	095°51.180	146 F	6.0 kts	252°	
2153		27°38.630	095°52.079	141 F	6.0 kts	259°	
2200	01/139	27°39.422	095°52.419	128 F	4.9 kts	335°	
2209					6.7 kts	332°	red 2550 gun 2620
2215	02/414	27°40.665	095°52.996	112 F			col MUD 2A / sol MUD-953A WP3
2230	03/715	27°42.044	095°53.656	96 F	6.1 kts	336°	elics - ext gain 64 dB 2000Hz EPC delay = 0 int. AGC gain = 1 800ms record
2245	04/1010	27°43.429	095°54.276	86 F	6.5 kts	333°	GPC - ext gain 84 dB + int. 10 dB
2300	05/1312	27°44.872	095°54.940	74 F	5.5 kts	320°	res 2505 gun 2650 LPI=100, filter = 150-1500
2315	06/1610	27°46.135	095°55.580	65 F	5.8 kts	327°	delay = 100, keep = 3s, scan = 0.5s
2330	07/1910	27°47.424	095°56.154	61 F	5.4 kts	333°	
2345	08/2215	27°48.588	095°56.694	60 F	4.7 kts	330°	
0000	09/2515	27°49.750	095°57.206	59 F	5.1 kts	324°	red 2505 gun 2550
0016	10/2845	27°51.179	095°57.903	58 F	5.5 kts	331°	
0030	11/3099	27°52.366	095°58.488	57 F	5.6 kts	341°	
0045	12/3432	27°53.858	095°59.313	55 F	7.8 kts	323°	dinnertime!!
0100	13/3710	27°55.189	096°00.038	53 F	5.4 kts	333°	putting the gun out a bit further - 1 mile from past WP4 heading for WP5
0115	14/4010	27°56.585	096°00.792	50 F	6.0 kts	318°	
0130	15/4345	27°58.1	096°01.7	47	5.9 kts	324°	
0145	16/4650	27°59.53' N	096°02.59' W	44	6.3 kts	325°	
0200	17/4920	28°00.8' N	096°03.3' W	42	6.7 kts	332°	new watch BJE res 2500 gun 2500
					7.0 kts	333°	
0201	01/0	28°01.0' N	096°03.4' W	42 F			EOL MUD95-3A
0215	02/280	28°02.32' N	096°04.11' W	39 F	7.0 kts	333°	- log file
0230	03/575	28°03.7' N	096°04.7' W	36 F	6.0 kts	327°	SOL MUD 95-3B res 2500 gun 2500
0245	03/885	28°05.01' N	096°05.80' W	34	5.7 kts	322°	changes to above params
0300	04/1185	28°05.8' N	096°07.2' W	32	6.0 kts	313°	lots of rigs ahead! → OIL! 480 ms record
0315	05/1485	28°06.6' N	096°08.5' W	30	6.0 kts	296°	delay res 2500 gun 2500
						307°	heading off course to dodge rigs (horizon is full of them)



gun 2500 psi

p. 3

Line name: <u>MUD 95-38</u>	Energy: <u>J/PSI</u>	Tape #: <u>          </u>
Descr: <u>MUD 95</u>	Firing Rate: <u>3 sec</u>	Filter: <u>          </u>
Date: <u>08/21</u>	Geophones: <u>ITI streamer</u>	Source: <u>15 H<sub>2</sub>O ci</u>

Time	SP/Fix	LAT.	LONG.	WD	Ship spd/dir	Nav. system	Notes
0330	00/1785	28°07.9' N	096°09.3' W	28	6.25 kts	333°	still on course due to high
0345	07/2085	28°09.3' N	096°09.9' W	26	5.8 kts	337°	res 2500 gun 2500
0400	08/2385	28°10.78' N	096°10.51' W	24	6 kts	333°	
0415	09/2688	28°12.21' N	096°11.02' W	23	6.7 kts	334°	Doug checked gauges
0430	10/2990	28°13.67' N	096°11.68' W	22	5.9 kts	337°	still dodging rig
0445	11/3290	28°15.1' N	096°12.3' W	21	7.0 kts	330°	
0500	12/3590	28°16.5' N	096°13.0' W	21	6.7 kts	330°	getting close to turn & dodging a rig
0515	13/3890	28°17.87' N	096°13.72' W	20	6.0 kts	332°	to N as we turn SW
0523	14/4050	28°18.47' N	096°14.04' W	19	6.0 kts	330°	EOL MUD 95-38
0525	01/00	28°18.2' N	096°14.4' W	19	5.5 kts	224°	res 2550 gun 2550
0545	02/150	28°17.32' N	096°16.00' W	19	5.25 kts	227°	SOL MUD 95-4A w/ Flics. 3.0 sec firing
0600	03/150	28°16.48' N	096°17.19' W	20	5.8 kts	223°	Rigs in the way. still dodging
0615	04/1025	28°15.58' N	096°18.91' W	20	6.1 kts	220°	480 ms record
0630	05/1335	28°14.63' N	096°19.66' W	21	6.5 kts	220°	ext gain = 64 dB
0645	06/1640	28°13.72' N	096°21.06' W	21	5.9 kts	236°	gain = 1 2000 Hz
0700	07/1945	28°12.84' N	096°22.57' W	8	6.1 kts	224°	EPC gain = 94 dB
0716	08/2285	28°11.90' N	096°24.0' W	21	6.7 kts	226°	filter = 150-1500
0730	09/2525	28°11.171' N	096°25.056' W	17	5.41 kts	223°	delay = 0
0745	10/2827	28°10.200' N	96°26.30' W	20	6.0 kts	226°	keep watch for
0800	11/3135	28°09.4' N	096°27.7' W	12(?)	5.9 kts	226°	
0815	12/3435	28°08.5' N	96°28.9' W	18	6.0 kts	226°	
0824	13/3673	28°08.1' N	96°29.6' W	19	5.9 kts	228°	* EPC plotter down from 0730-0830
0832	01/100	28°07.3' N	96°29.7' W	19	5.6 kts	138°	EOL MUD 95-4A (w/PI <sub>2</sub> ) / SOL MUD 5A
0845	02/337	28°06.3' N	96°28.9' W	20	6.1 kts	138°	Elics - some forms
0850							EPC - same, but LPI = 200
0900	03/638	28°05.065' N	96°27.902' W	23	6.4 kts	135°	change EPC LPI from 200 to 100
0915	04/930	28°03.794' N	96°26.848' W	24	6.0 kts	141°	
0930	05/1243	28°02.416' N	96°25.747' W	26	6.2 kts	138°	interference
0945	06/1545	28°01.0' N	96°24.71' W	28	6.4 kts	138°	res 2600 gun 2505
1000	07/1839	28°00.052' N	96°23.51' W	30	6.6 kts	095°	
1015	08/2145	27°58.7' N	96°22.6' W	32	6.5 kts	139°	fast, heavy current
1030	09/2437	27°57.4' N	96°21.81' W	35	6.0 kts	136°	
1045	10/2735	27°56.1' N	96°20.81' W	38	6.4 kts	139°	
1100	11/3030	27°54.1' N	96°19.6' W	41	7.3 kts	138°	
1115	12/3335	27°53.54' N	96°18.58' W	45	7.0 kts	135°	
1130	13/3630	27°52.19' N	96°17.43' W	49	6.5 kts	140°	
1145	14/3940	27°50.84' N	96°16.36' W	53	6.7 kts	145°	slowing down to 6.5 kts



Line name: Mud 95-5AEnergy:                      J/PSITape #:                     Descr: Mud 95Firing Rate: 3sFilter:                     Date: 08/21Geophones: 1T1streamerSource: 15H60 ci

Elies EPC

p. 4

Time	SP/Fix	LAT.	LONG.	WD <sup>F</sup> (m)	Ship spd/dir	Nav. system	Notes
1200	15/4233	27°49.52' N	96°15.29' W	57	6.4 kts	140°	cont. Mud 95-5A
1215	16/4535	27°48.22' N	96°14.22' W	61	5.2 kts	149°	
1230	17/4825	27°47.09' N	96°13.289' W	64	6.4 kts	134°	
1245	01/320	27°45.62' N	96°12.162' W	69	5.2 kts	147°	eol 95-5A / sol 95-5B EPC-same parms
1300	02/620	27°44.42' N	96°11.165' W	75	6.0 kts	150°	Elies-change trace length
1313	03/895	27°43.38' N	96°10.32' W	80	6.0 kts	144°	1 mile from WP#7
1330	04/1195	27°42.01' N	96°09.44' W	86	5.5 kts	154°	@ WP#7 about to turn 5° to head to WP8
1345	05/1520	27°40.66' N	96°08.57' W	92	6.5 kts	140°	
1400	06/1815	27°39.42' N	96°07.64' W	98	6.9 kts	147°	
1415	07/2115	27°38.09' N	96°06.75' W	105	6.7 kts	147°	res 2600 gun 2550
1430	08/2415	27°36.82' N	96°05.98' W	112	7.0 kts	139°	Mark backing air pressure down a bit to
1445	09/2720	27°35.48' N	96°05.01' W	123	5.7 kts	141°	service generator & compressor. Shooting continues
1500	10/3020	27°34.15' N	96°04.12' W	133	5.8 kts	144°	pressure (2) full amps.
1515	11/3325	27°32.60' N	96°03.14' W	147	6.0 kts	145°	delay = 800 ms on EPC
1520	12/3440	27°32.53' N	96°03.70' W	149	6.0 kts	149°	
1521	01/00	27°32.53' N	96°03.70' W	149	6.0 kts	228°	eol 95-5B
1530	02/200	27°31.89' N	96°04.27' W	150	6.2 kts	220°	Sol 95-6A delay = 150 ms on EPC
1545	03/500	27°30.99' N	96°05.60' W	150	5.9 kts	233°	all other parms unchanged
1600	04/800	27°30.08' N	96°06.99' W	150	6.17 kts	212°	
1609	05/1000	27°29.04' N	96°07.74' W	150	6.2 kts	240.5°	eol 95-6A
1610	01/00	27°29.46' N	96°07.86' W	147	5.5 kts	314°	
1615	02/120	27°30.05' N	96°08.18' W	145	6.0 kts	320°	Sol 95-7A heading to WP10
1630	03/420	27°31.10' N	96°09.21' W	133	5.3 kts	320°	
1645	04/920	27°32.16' N	96°10.22' W	123	6.4 kts	311°	EPC delay changed to 400
1700	05/1020	27°33.23' N	96°11.24' W	114	5.4 kts	313°	
1715	06/1320	27°34.49' N	96°12.31' W	107	7.0 kts	325°	now current pushing speed faster
1730	07/1625	27°35.69' N	96°13.54' W	100	7.1 kts	315°	EPC now acting up
1745	08/1930	27°36.89' N	96°14.59' W	93	5.5 kts	300°	
1800	09/2230	27°37.93' N	96°15.72' W	87	6.5 kts	310°	
1815	10/2530	27°39.1' N	96°16.7' W	82	6.4 kts	311°	
1830	11/2830	27°40.2' N	96°17.8' W	76	5.8 kts	310°	
1845	12/3130	27°41.3' N	96°18.9' W	71	5.9 kts	315°	turned EPC off/on, nav works!
1900	13/3430	27°42.4' N	96°20.0' W	67	6.0 kts	314°	
1915	14/3730	27°43.57' N	96°21.18' W	62	6.0 kts	311°	
1930	15/4022	27°44.7' N	96°22.2' W	58	5.2 kts	313°	New watch - LAB
1945	16/4325	27°45.9' N	96°23.2' W	55	6.3 kts	316°	called JBA



Line name: <u>Mud 95-7A</u>	Energy: <u>J/PSI</u>	Tape #: _____
Descr: <u>Mud 95</u>	Firing Rate: <u>3s</u>	Filter: _____
Date: <u>08/21/95 - 08/22</u>	Geophones: <u>171 steamy</u>	Source: <u>15460 ci</u>

Time	SP/Fix	LAT.	LONG.	WD	Ship spd/dir	Nav. system	Notes
2000	17/4600	27°47.1' N	96°24.4' W	48	5.7 kts	314°	
2015	18/4930	27°48.3' N	96°25.5' W	47	6.2 kts	315°	cont. MUD 95-7A heading to WP#10
2017	0/0	27°48.46' N	96°25.62' W	47	5.8 kts	318°	col MUD 95-7A
2030	01/272	27°49.43' N	96°26.679' W	44	5.5 kts	313°	col MUD 95-7B. *beautiful lensal surface*
2045	02/572	27°50.64' N	96°27.77' W	40	6.0 kts	313°	
2100	03/880	27°51.76' N	96°28.8' W	37	6.0 kts	312°	
2115	04/1177	27°52.9' N	96°30.0' W	34	6.7 kts	319°	
2130	05/1480	27°54.1' N	96°31.1' W	31	5.1 kts	311°	
2136	06/1620	27°54.71' N	96°31.76' W	29	6.7 kts	299°	
2145	07/1775	27°55.18' N	96°32.54' W	29	6.4 kts	299°	@ WP10 turning port to WP#11
2200	08/2075	27°56.138' N	96°34.05' W	26	6.0 kts	299°	
2215	09/2380	27°57.1' N	96°35.6' W	24	6.6 kts	301°	
2230	10/2680	27°57.98' N	96°37.09' W	22	7.0 kts	300°	
2245	11/2980	27°58.95' N	96°38.57' W	21	5.9 kts	300°	
2300	12/3280	27°59.9' N	96°40.1' W	19	6.6 kts	295°	
2305		28°00.14' N	96°40.4' W	19	3.2 kts	310°	
							col 95-7B
							pulling gun to check security
							- good thing we lost a net!
							heading back WP#11
2353	0/0						
							@ WP#11 col MUD 95-8A
0007	0/0	27°00.0' N	96°40.1' W	19	5.8 kts	214°	
015	1/196	27°59.36' N	96°41.04' W	19	6.5 kts	226°	
030	2/490	27°58.34' N	96°42.39' W	19	6.5 kts	221°	
045	3/785	27°57.29' N	96°43.75' W	19	6.5 kts	220°	
0100	4/1085	27°56.25' N	96°45.62' W	19	7.0 kts	223°	
0115	5/1385	27°55.21' N	96°46.4' W	19	6.0 kts	223°	
0130	6/1690	27°54.23' N	96°47.82' W	19	5.7 kts	218°	
0145	7/1990	27°53.21' N	96°49.11' W	19	5.5 kts	219°	
0200	8/2290	27°52.24' N	96°50.43' W	19	6.3 kts	222°	
0215	9/2590	27°51.24' N	96°51.74' W	19	5.75 kts	225°	
0219	10/2650	27°51.04' N	96°51.97' W	19	6.0 kts	223°	
							col 8A
0220	0/0	27°50.8' N	96°51.8' W	19	6.0 kts	125°	
0230	1/285	27°50.05' N	96°51.14' W	20	6.5 kts	129°	
0245	2/530	27°48.95' N	96°49.82' W	22	7.0 kts	125°	
0300	3/815	27°47.98' N	96°48.50' W	23	6.2 kts	122°	
0315	4/1115	27°46.93' N	96°47.10' W	25	6.2 kts	123°	
0330	5/1415	27°45.85' N	96°45.80' W	27	6.0 kts	120°	

eating dinner; weird wave train  
going through data; turned differential  
GPS on - seemed to help  
still getting wave train on Elics, but not on EPC



Line name: MUD 95-9A, 9B, 9C, 10A, 11A

Energy: \_\_\_\_\_ J/PSI

Tape #:

Descr: Mud 95

Firing Rate: 3 sec

Filter:

Date: 8/22/95

Geophones: ITI Streamer

Source: 1542 ci

Save@ 1345

p. 6

Time	SP/Fix	LAT.	LONG.	WD	Ship spd/dir	Nav. system	Notes
0345	6/1715	27°44.85' N	96°44.32' W	29	7.0 kts	125°	
0400	7/2015	27°43.82' N	96°42.82' W	32	6.9 kts	122°	MUD 95-9A continued from pg. 5
0415	8/2315	27°42.79' N	96°41.80' W	35	7.3 kts	122°	
0430	9/2615	27°41.71' N	96°39.82' W	38	6.8 kts	125°	
0445	10/2915	27°40.60' N	96°38.45' W	42	6.8 kts	127°	
0500	11/3215	27°39.42' N	96°37.10' W	46	6.6 kts	121°	
0515	12/3515	27°38.32' N	96°35.74' W	50	6.3 kts	125°	
0530	13/3815	27°37.26' N	96°34.32' W	53	7.5 kts	118°	
0545	14/4115	27°36.23' N	96°32.84' W	57	6.8 kts	116°	
0600	15/4415	27°35.21' N	96°31.43' W	62	6.5 kts	124°	EOC MUD 95-9A
0601	0/0	27°35.21' N	96°31.43' W	62	6.5 kts	124°	SOL MUD 95-9B
0615	1/280	27°34.19' N	96°30.00' W	66	6.3 kts	124°	
0630	2/550	27°33.17' N	96°28.61' W	66	6.2 kts	132°	above hospital (rock depth drops to 58 m.)
0645	3/850	27°32.00' N	96°27.35' W	56	6.3 kts	124°	heading to WP#14 → made slight turn so
0700	4/1150	27°30.9' N	96°25.9' W	82	5.8 kts	124°	see hospital rock twice
0704	5/1220	27°30.72' N	96°25.65' W	84	6.4 kts	124°	EOC MUD 95-9B / SOL MUD 95-9C
0715	6/1220	27°28.86' N	96°24.7' W	88	7.9 kts	124°	↳ Elics 800m trace
0730	7/1523	27°28.7' N	96°23.16' W	93	6.9 kts	124°	
0745	8/1825	27°27.7' N	96°21.8' W	99	6.8 kts	124°	change EPC delay from 0 → 100ms
0800	9/1115	27°26.7' N	96°20.4' W	106	6.5 kts	126°	res 2500 gun 2400
0815	10/1417	27°25.6' N	96°19.0' W	115	6.3 kts	123°	
0830	11/1700	27°24.7' N	96°17.7' W	126	6.3 kts	122°	
0845	12/2015	27°23.7' N	96°16.3' W	139	6.5 kts	124°	
0854	13/2200	27°23.0' N	96°15.4' W	149	5.7 kts	220°	@ WP14 turning to WP15
0900	14/2300	27°22.6' N	96°15.8' W	149	6.0 kts	219°	
0908	0/0	27°22.0' N	96°16.6' W	147	6.2 kts	214°	EOC 9C SOL 10A (start was bte should
0915	01/1150	27°21.5' N	96°17.2' W	146	5.7 kts	220°	have begun @ 0854)
0930	02/1480	27°20.3' N	96°18.5' W	144	5.5 kts	221°	nasty overlying patterns? gain??
0942	0/0	27°19.7' N	96°19.4' W	143	7.1 kts	301°	EOC 10A - SOL 11A
1000	01/345	27°20.8' N	96°21.1' W	126	6.8 kts	293°	trying to get rid of pattern on Elics
							Graining (no check air gauges) - no luck
1015	02/650	27°21.7' N	96°22.8' W	?	7.2 kts	305°	GPC froze up again → restart
1030	03/950	27°22.24' N	96°24.4' W	104	6.9 kts	296°	change EPC delay from 100ms → 0
1045	04/1250	27°23.6' N	96°26.0' W	96	7.1 kts	297°	
✓ 1100	05/1595	27°24.4' N	96°27.6' W	90	6.5 kts	297°	
1115	06/1850	27°25.3' N	96°29.2' W	85	5.7 kts	290°	



Line name: <u>MUD95-11A-12A</u>	Energy: <u>J/PSI</u>	Tape #: <u></u>
Descr: <u>MUD95</u>	Firing Rate: <u>35</u>	Filter: <u></u>
Date: <u>08/22</u>	Geophones: <u>171 stream</u>	Source: <u>15 H<sub>2</sub>O ci</u>

Elies EPC

p. 7

new line 2300

Time	SP/Fix	LAT.	LONG.	WD(m)	Ship spd/dir	Nav. system	Notes
1130	07/2145	27° 26.2' N	96° 30.8' W	80	7.0 kts	294°	
1145	08/2445	27° 27.2' N	96° 32.4' W	74	6.7 kts	297°	cont. MUD95-11A *reop
1200	09/2735	27° 28.008' N	96° 33.908' W	67	5.9 kts	296°	
1215	10/3050	27° 28.959' N	96° 35.575' W	65	6.5 kts	296°	1208 - 1/4 mile from WP16
1230	11/3345	27° 29.8' N	96° 37.0' W	61	6.6 kts	295°	
1245	12/3645	27° 30.7' N	96° 36.6' W	57	6.1 kts	296°	heading for WP17
1300	13/3945	27° 31.54' N	96° 40.15' W	53	6.3 kts	296°	
1315	14/4245	27° 32.32' N	96° 41.62' W	49	6.9 kts	298°	
1330	15/4545	27° 33.21' N	96° 43.07' W	45	6.8 kts	292°	new watch R/E
1345	16/4845	27° 34.03' N	96° 44.80' W	42	6.6 kts	295°	
1345	0/0	27° 34.03' N	96° 44.80' W	42	6.6 kts	295°	sol 95-11A
1400	1/280	27° 34.92' N	96° 46.02' W	39	6.3 kts	301°	sol 95-11B changed record length to 480
1415	2/580	27° 35.77' N	96° 47.51' W	35	6.7 kts	301°	
1430	3/880	27° N	96° W	33	kts		
1636							1430 lost gun → rebuilding
							1636 gun ready returning to location of 1436 GMT
1659	0/0	27° 35.8' N	96° 47.5' W	35	5.6 kts	295°	
1715	1/320	27° 36.63' N	96° 49.2' W	33	7.1 kts	303°	sol MUD95-11C looks good!
1730	2/620	27° 37.44' N	96° 50.72' W	30	6.4 kts	297°	
1745	3/920	27° 38.28' N	96° 52.21' W	28	5.8 kts	297°	
1800	4/1220	27° 39.06' N	96° 53.68' W	26	5.9 kts	296°	
1815	5/1520	27° 39.88' N	96° 55.16' W	25	7.2 kts	300°	
1830	6/1820	27° 40.75' N	96° 56.68' W	23	5.9 kts	294°	
1845	7/2120	27° 41.61' N	96° 58.23' W	21	6.4 kts	300°	
1900	8/2420	27° 42.42' N	96° 59.75' W	19	6.0 kts	300°	sol MUD95-11C
1900	0/0	27° 42.42' N	96° 59.75' W	19	6.0 kts	300°	
1915	01/300	27° 41.462' N	97° 00.86' W	19	6.4 kts	204°	can see turn on Elies @ SP50 sol 12-A
1930	02/590	27° 40.152' N	97° 01.825' W	19	6.6 kts	204°	New Watch LDB
1945	03/990	27° 38.57' N	97° 02.6' W	19	7.4 kts	204°	res just 42400 2550 gun in 24200 2550
2000	04/1195	27° 37.08' N	97° 03.53' W	19	6.6 kts	205°	
2015	05/1495	27° 35.75' N	97° 04.63' W	19	7.7 kts	206°	
2030	06/1795	27° 34.25' N	97° 05.161' W	19	6.5 kts	204°	
2045	07/2090	27° 32.76' N	97° 06.62' W	19	6.5 kts	204°	
2100	08/2385	27° 31.28' N	97° 07.42' W	19	6.5 kts	204°	
2115	09/2685	27° 29.9' N	97° 08.4' W	19	5.4 kts	211°	1 mile from WP #18 res 2350 2550



Line name: MUD95-13A, 13B, 14A

Energy: \_\_\_\_\_ J/PSI

Tape #:

Descr: MUD 95

Firing Rate: 35

Filter: \_\_\_\_\_

Date: 08/22-23/95

Geophones: 17 streamer

Source: 15 H<sub>2</sub>O ci

Elic  
EPC

2728  
049

new line 0515

p 8

Geophones: 17 streamer						Source: 15 H <sub>2</sub> O ci	
Time	SP/Fix	LAT.	LONG.	WD	Ship spd/dir	Nav. system	Notes
2125	0/0	27°28.9' N	97°09.0' W	19	5.9 kts	118°	
2130	01/100	27°28.64' N	97°08.45' W	20	5.8 kts	108°	@ WP#18 eol MUD 12A sol MUD 13A
2145	02/145	27°28.06' N	97°06.88' W	22	5.8 kts	108°	Erics-ext gain 64dB, AGC-gain=1
2200	03/700	27°27.38' N	97°05.29' W	23	6.4 kts	108°	480ms trace, 3skew, no delay, 2000k
2215	04/1020	27°26.74' N	97°03.57' W	25	6.4 kts	108°	FRC-gain 94dB, delay=0 scan=5
2230	05/1315	27°26.08' N	97°01.99' W	27	6.6 kts	108°	key=35, LPI=100
2245	06/1615	27°25.4' N	97°00.3' W	28	7.0 kts	109°	
2300	07/1900	27°24.7' N	96°58.73' W	31	6.6 kts	108°	
2315	08/2220	27°24.09' N	96°57.07' W	33	7.2 kts	108°	
2330	09/2520	27°23.416' N	96°55.397' W	36	6.7 kts	108°	
2345	10/2815	27°22.75' N	96°53.799' W	39	6.3 kts	108°	
2400/0000	11/3115	27°22.12' N	96°52.134' W	42	6.3 kts	108°	
0015	12/3415	27°21.4' N	96°50.16' W	46	7.1 kts	106°	AC turned on - pattern came on Erics
0030	13/3720	27°20.86' N	96°49.06' W	49	3.6 (?) kts	108°	
0045	14/4015	27°20.2' N	96°47.4' W	53	5.7 kts	102°	again, pattern on Erics, turned off AC, it went away
0100	15/4315	27°19.6' N	96°46.0' W	56	5.9 kts	102°	
0115	16/4620	27°19.16' N	96°44.49' W	60	6.1 kts	109°	
0130	01/280	27°18.8' N	96°43.0' W	63	5.8 kts	115°	eol MUD 13A / sol MUD 13B
0145	02/575	27°17.88' N	96°41.85' W	67	6.2 kts	140°	slowed to avoid a buoy, speeding back up
0200	03/875	27°17.29' N	96°40.30' W	70	6.2 kts	108°	new watch BJE
0215	04/1175	27°16.54' N	96°38.8' W	75	5.6 kts	105°	
0230	05/1475	27°15.8' N	96°37.3' W	79	5.75 kts	107°	
0245	06/1795	27°15.26' N	96°35.89' W	84	6.0 kts	109°	
0300	07/2095	27°14.70' N	96°34.43' W	87	5.5 kts	107°	
0315	08/2375	27°14.20' N	96°33.09' W	92	5.8 kts	106°	
0330	09/2680	27°13.68' N	96°31.68' W	97	5.25 kts	107°	
0345	10/2980	27°13.17' N	96°30.36' W	101	5.5 kts	108°	
0400	11/3280	27°12.67' N	96°28.99' W	109	5.8 kts	109°	FRC delay = 100 ms
0415	12/3580	27°12.14' N	96°27.63' W	118	5.4 kts	107°	
0430	13/3880	27°11.57' N	96°26.16' W	132	5.5 kts	104°	
0445	14/4185	27°10.91' N	96°24.53' W	146	5.5 kts	105°	blow fuse shots 3920-3980 bad
0448	0/0	27°10.109' N	96°24.53' W	149	6.25 kts	197°	eol MUD 95-13B
0500	1/250	27°09.61' N	96°25.0' W	150	6.0 kts	195°	sol MUD 95-14A
0515	2/550	27°08.21' N	96°25.69' W	151	6.0 kts	197°	
0530	3/880	27°06.98' N	96°26.42' W	151	7.0 kts	195°	
0545	4/1180	27°05.31' N	96°27.06' W	149	7.0 kts	192°	eol 95-14A wave trains going thru dataset horrible Calprit unknown



(there is no 15A)

Line name: <u>MUD 95-15B</u>	Energy: <u>J/PSI</u>	Tape #: _____
Descr: <u>MUD 95</u>	Firing Rate: <u>3 Sec</u>	Filter: _____
Date: <u>08/23/95</u>	Geophones: <u>ITIS stream</u>	Source: <u>15 H<sub>2</sub>O ci</u>

Time	SP/Fix	LAT.	LONG.	WD(m)	Ship spd/dir	Nav. system	Notes
0550	0/0	27°05.00'N	91°27.29'W	145	7.0 kts	278°	
0600	✓ 2/65	27°05.36'N	91°28.71'W	133	6.6 kts	270°	80L MUD 95-15B (there is no 15A)
0615	2/565	27°05.79'N	91°30.59'W	116	7.25 kts	279°	
0630	3/865	27°06.22'N	91°32.43'W	105	6.75 kts	278°	
0645	4/165	27°06.66'N	91°34.27'W	97	7.2 kts	280°	
0700	5/1465	27°07.10'N	91°36.04'W	92	6.5 kts	278°	changed EPC delay to zero
0715	6/1770	27°07.15'N	91°37.7'W	87	7.0 kts	281°	
0730	07/2050	27°07.99'N	91°39.45'W	83	6.0 kts	286°	New Watch BTE
0745	08/2350	27°08.43'N	91°41.19'W	77	6.5 kts	280°	AC & wave trans definitely linked
0800	09/2650	27°08.7'N	91°42.9'W	73	6.1 kts	277°	
0811	0/0	27°09.09'N	91°44.17'W	71	5.6 kts	279°	
0815	01/100	27°09.1'N	91°44.6'W	65	6.2 kts	276°	50L MUD 95-15B (Elic went down)
0830	02/400	27°09.5'N	91°46.2'W	65	6.5 kts	279°	(no 15A)
0845	03/695	27°09.99'N	91°47.97'W	62	5.4 kts	279°	
0900	04/1995	27°10.3'N	91°49.5'W	58	6.5 kts	276°	
0915	05/1300	27°10.6'N	91°51.3'W	54	6.6 kts	275°	
0930	06/1595	27°11.0'N	91°52.9'W	50	6.6 kts	273°	
0945	07/1900	27°11.4'N	91°54.7'W	47	7.2 kts	277°	
1000	08/2200	27°11.9'N	91°56.4'W	43	6.8 kts	277°	
1015	09/2500	27°12.1'N	91°58.1'W	40	6.9 kts	275°	
1030	10/2795	27°12.7'N	91°59.9'W	37	6.2 kts	282°	
1045	11/3095	27°13.2'N	91°01.8'W	34	7.0 kts	276°	
1100	12/3400	27°13.5'N	91°03.6'W	32	6.8 kts	282°	
1115	13/3695	27°14.0'N	91°05.3'W	29	6.2 kts	266°	
1130	14/4000	27°14.3'N	91°07.2'W	28	6.4 kts	278°	changing Furuno paper
1145	15/4295	27°14.4'N	91°08.8'W	26	6.5 kts	275°	
1200	16/4595	27°15.13'N	91°10.62'W	24	6.4 kts	278°	
1215	17/4895	27°15.5'N	91°12.3'W	22(?)	6.7 kts	274°	
1230	18/5195	27°15.96'N	91°14.0'W	20	6.8 kts	277°	
1236	—	27°16.176'N	91°14.97'W	20	6.4 kts	180°	
1241	0/0	27°15.83'N	91°15.13'W	20	6.4 kts	180°	20L 15C
1245	01/85	27°15.46'N	91°15.17'W	19	7.4 kts	180°	30L MUD 95-16A EPC-same parms
1300	02/385	27°15.9'N	91°15.3'W	19	6.2 kts	184°	Elics-same, except trace=480
1315	03/690	27°12.2'N	91°15.5'W	20	7.0 kts	179°	
1330	04/990	27°10.64'N	91°15.74'W	20	9.3 kts	176°	
1345	05/1290	27°09.00'N	91°15.96'W	20	6.75 kts	174°	New Watch BTE
1400	06/1595	27°09.37'N	91°16.20'W	20	6.0 kts	180°	
1415	07/1890	27°05.73'N	91°16.46'W	20	6.3 kts	172°	



Line name: <u>MUD 95-16A</u>	Energy: <u>J/PSI</u>	Tape #: <u></u>
Descr: <u>MUD 95</u>	Firing Rate: <u>3 sec</u>	Filter: <u></u>
Date: <u>08-23-95</u>	Geophones: <u>ITI streamer</u>	Source: <u>15 H<sub>2</sub>O ci</u>

Time	SP/Fix	LAT.	LONG.	WD(m)	Ship spd/dir	Nav. system	Notes
1430	08/8195	27° 04.10' N	97° 10.60' W	20	7.25 kts	180°	
1440	09/2425	27° 02.91' N	97° 16.70' W	19	7.0 kts	172°	
1445	1/70	27° 02.68' N	97° 16.33' W	20	7.0 kts	95°	col 16A s/c 17A
1500	2/365	27° 02.44' N	97° 14.58' W	23	7.0 kts	83°	
1515	3/670	27° 02.32' N	97° 12.76' W	25	5.9 kts	85°	
1530	4/970	27° 02.26' N	97° 10.95' W	27	6.0 kts	87°	beautiful prograding feature-dream stratigraphy
1545	5/1270	27° 02.09' N	97° 09.12' W	28	7.0 kts	88°	
1600	6/1570	27° 02.04' N	97° 07.29' W	30	6.75 kts	87°	
1615	7/1870	27° 01.93' N	97° 05.37' W	32	5.75 kts	89°	gauges @ 2400 = 2600
1630	8/2240	27° 01.82' N	97° 03.16' W	35	6.4 kts	81°	
1645	9/2470	27° 01.73' N	97° 01.88' W	37	6.25 kts	85°	
1700	10/2770	27° 01.66' N	97° 00.01' W	40	6.45 kts	88°	
1719	11/3150	27° 01.49' N	96° 57.63' W	45	7.0 kts	90°	
1730	12/3350	27° 01.43' N	96° 56.38' W	48	6.75 kts	82°	oops! a little late
1745	13/3650	27° 01.33' N	96° 54.54' W	51	6.75 kts	88°	gun depth finder acting up
1800	14/3950	27° 01.22' N	96° 52.77' W		7.0 kts	85°	huge incision below multiple!
1815	15/4250	27° 01.11' N	96° 50.98' W		6.0 kts	87°	
1830	16/4550	27° 01.0' N	96° 49.2' W		6.7 kts	88°	depthfinder messed up
1845	17/4850	27° 00.98' N	96° 47.41' W		6.0 kts	78°	
1900	18/5150	27° 00.86' N	96° 45.58' W		6.7 kts	89°	
1915	19/5450	27° 00.81' N	96° 43.85' W		6.4 kts	88°	new watch work
1930	20/5750	27° 00.67' N	96° 42.08' W		6.3 kts	93°	
1945	01/285	27° 00.54' N	96° 40.34' W	88	6.3 kts	082°	col 17A s/c 17B changed to 800 ms
2000	02/585	27° 00.5' N	96° 38.6' W		6.4 kts	087°	
2015	03/880	27° 00.3' N	96° 37.0' W		6.5 kts	088°	gun 2350 res 2600
2030	04/1180	27° 00.2' N	96° 35.2' W	100	6.2 kts	082°	change 100ms to EPC delay
2045	05/1480	27° 00.3' N	96° 33.6' W	107	6.0 kts	088°	depthfinder healed itself!
2100	06/1780	27° 00.1' N	96° 31.7' W	117	6.4 kts	088°	gun 2300 res 2700
2115	07/2050	27° 00.00' N	96° 30.1' W	132	6.5 kts	090°	
2153							col 17B
2240							gun 2600 res 2725
2245							backing up hard drive (plus boat stuff)
2248	01/75	27° 00.00' N	96° 30.07' W	133	4.7 kts	016°	gun in H <sub>2</sub> O; head to WP+24 (prob w/ 1
2302	02/350	27° 01.17' N	96° 29.71' W	134	5.1 kts	009°	begin recording but not @ WP yet engine started
2315	03/620	27° 02.2' N	96° 29.3' W	135	5.4 kts	012°	col 18A (@ WP+4)
2330	04/900	27° 03.48' N	96° 29.03' W	135	5.3 kts	009°	on oscilloscope gun has 2 res 2700 gun 2550
2345	05/1200	27° 04.7' N	96° 28.16' W	135	5.3 kts	006°	pulses (1 big, then small)
2349							record is jugged
							decided to limp back to Corpus Christi



Line name: MUDTEST2Energy: J/PSITape #:           Descr: MUD 95Firing Rate: 3 secFilter:           Date: 8-24-95Geophones: ITI streamerSource: 15 H<sub>2</sub>O ci

Well, after rebuilding the gun, getting the main engine started again, & Delph quitting on us, we appear to be back on track. we will do our best to get as much as possible done before heading to Corpus on Friday.

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Time	SP/Fix	LAT.	LONG.	WD (m)	Ship spd/dir	Nav. system	Notes
0520	1/625	27°00.00' N	96°30.2' W	depth	6.2 kts	010°	800ms record
0533	2/875	27°01.3' N	96°29.8' W	finder	6.8 kts	015°	sol MUDTEST2 (135m strike line)
0545	3/1175	27°02.5' N	96°29.6' W	not	6.8 kts	010°	FPC delay set @ 100ms
0600	4/1475	27°04.0' N	96°29.0' W	airing	6.4 kts	010°	
0615	5/1735	27°05.4' N	96°28.5' W	reading	6.7 kts	006°	
0630	6/2075	27°06.9' N	96°28.0' W		6.2 kts	006°	
0645	7/2375	27°08.2' N	96°27.5' W		5.4 kts	011°	
0700	8/2635	27°09.5' N	96°26.8' W	136	5.5 kts	024°	@ WP25, heading to WP26
0715	9/2975	27°10.7' N	96°26.0' W	136	5.3 kts	020°	
0730	10/3285	27°12.0' N	96°25.4' W	137	5.4 kts	024°	fuse blew
0745	11/3585	27°13.3' N	96°24.8' W	135	5.1 kts	020°	
0800	12/3885	27°14.5' N	96°23.9' W	138	5.3 kts	023°	
0815	13/4150	27°15.5' N	96°23.1' W	138	5.6 kts	021°	
0830	14/4450	27°16.8' N	96°22.5' W	138	5.4 kts	021°	
0845	15/4750	27°18.1' N	96°21.8' W	138	6.1 kts	022°	
0900	16/4945	27°19.3' N	96°21.1' W	133	5.8 kts	023°	
0918	17/51375	27°20.5' N	96°21.4' W	133	5.6 kts	033°	sol MUDTEST2 / sol 18B
0931	18/5445	27°21.7' N	96°19.2' W	137	5.2 kts	039°	@ WP26 heading to WP27
0945	19/5745	27°22.3' N	96°18.3' W	133	5.7 kts	036°	
1000	20/6050	27°23.6' N	96°17.4' W	135	5.8 kts	023°	
1015	21/6350	27°24.7' N	96°16.9' W	134	5.7 kts	035°	
1055	22/6650	27°27.4' N	96°13.9' W	133	5.0 kts	037°	
1115	23/6950	27°28.6' N	96°12.8' W	132	5.1 kts	030°	
1130	24/7215	27°29.2' N	96°11.8' W	133	4.7 kts	055°	
1145	25/7505	27°29.9' N	96°10.5' W	134	5.3 kts	034°	
1201	26/7805	27°30.25' N	96°09.2' W	135	5.5 kts	053°	
1215	27/8105	27°31.1' N	96°08.1' W	137	4.5 kts	056°	
1230	28/8405	27°31.8' N	96°06.8' W	139	3.8 kts	059°	
1245	29/8705	27°32.4' N	96°05.6' W	139	5.3 kts	047°	
1300	30/9005	27°33.1' N	96°04.3' W	140	4.7 kts	057°	
1315	31/9305	27°33.8' N	96°03.0' W	141	5.5 kts	051°	
1330	32/9605	27°34.5' N	96°01.58' W	142	6.4 kts	058°	new watch BJR
1345	33/9905	27°35.29' N	96°00.09' W	142	6.5 kts	048°	
1400	34/10205	27°36.01' N	95°58.56' W	144	5.75 kts	054°	
1415	35/10505	27°36.69' N	95°56.99' W	144	7.0 kts	054°	sol 18B / sol 18C
1430	36/10805	27°37.14' N	95°55.35' W	148	7.0 kts	055°	
1445	37/11105	27°38.04' N	95°53.90' W	144	6.75 kts	042°	
1500	38/11405	27°39.08' N	95°52.59' W	135	6.25 kts	042°	

At 2700 gun 2550



Line name: <u>MUD 95-18C, 19A, 19B, 20A, 20B</u>	Energy: <u>J/PSI</u>	Tape #: <u>        </u>
Descr: <u>MUD 95</u>	Firing Rate: <u>3 Sec</u>	Filter: <u>        </u>
Date: <u>08-24-95</u>	Geophones: <u>ITI Streamer</u>	Source: <u>15H20 ci</u>

Time	SP/Fix	LAT.	LONG.	WD (m)	Ship spd/dir	Nav. system	Notes
1515	5/1485	27°39.68' N	95°50.92' W	130	7.0 kts	65°	cont. 18C (135m depth strike line)
1530	6/1785	27°40.21' N	95°49.22' W	125	6.25 kts	65°	
1545	7/2085	27°40.74' N	95°47.62' W	120	6.5 kts	65°	
1600	8/2385	27°41.32' N	95°45.95' W	116	6.0 kts	65°	
1615	9/2685	27°41.93' N	95°44.28' W	125	6.0 kts	65°	
1630	10/2985	27°42.30' N	95°42.50' W	144	6.0 kts	60°	
1645	11/3285	27°42.89' N	95°40.90' W	132	5.75 kts	62°	
1700	1/245	27°44.3' N	95°40.4' W	85	6.6 kts	003°	eol 18C / sol 19A heading to WP 31
1715	2/580	27°45.8' N	95°40.2' W	76	6.2 kts	008°	
1730	3/880	27°47.2' N	95°40.0' W	71	6.5 kts	002°	
1737							eol 19A
							generator went down
1820	0/0	27°49.92' N	95°38.33' W	60	5.0 kts	344°	back up 1810
1830	1/220	27°50.81' N	95°38.46' W	64	5.4 kts	350°	Sol 19B
1859	2/ ?	27°53.3' N	95°39.0' W	60	6.0 kts	347°	
							eol 19B
1900	0/0	27°53.3' N	95°39.0' W	59	6.0 kts	264°	
1915	01/325	27°53.40' N	95°41.07' W	59	5.9 kts	264°	sol 20A → strike line 2
1930	02/625	27°53.39' N	95°42.76' W	58	5.8 kts	263°	
1945	03/925	27°53.26' N	95°44.53' W	57	5.4 kts	263°	New Watch Log
2000	04/1220	27°53.29' N	95°46.16' W	57	6.6 kts	263°	
2015	05/1525	27°53.3' N	95°47.9' W	57	5.6 kts	260°	
2030	06/1725	27°53.3' N	95°49.5' W	57	5.6 kts	262°	
2045	07/1825	27°53.2' N	95°51.3' W	57	6.2 kts	264°	
2100	08/2425	27°53.2' N	95°52.9' W	57	5.4 kts	264°	
2115	09/2725	27°53.1' N	95°54.4' W	56	5.6 kts	270°	
2130	10/3025	27°53.1' N	95°56.0' W	56	5.7 kts	261°	~ 3 miles from WP 31
2145	11/3330	27°53.1' N	95°57.7' W	56	5.3 kts	268°	
2151	12/3443	27°53.0' N	95°58.3' W	56	6.4 kts	205°	
2200	13/3620	27°52.3' N	95°58.7' W	58	6.5 kts	203°	@ WP 31, turning to WP 32
2217	14/3970	27°50.7' N	95°59.8' W	59	6.7 kts	208°	
2230	15/4230	27°49.4' N	96°00.6' W	61	7.0 kts	205°	
2245	01/265	27°48.0' N	96°01.6' W	67	7.3 kts	209°	eol 20A / sol 20B same frame
2300	02/565	27°46.5' N	96°02.6' W	74	7.3 kts	202°	
2310	03/790	27°45.51' N	96°03.28' W	78	7.2 kts	252	
2315	01/40	27°45.39' N	96°03.81' W	78	7.2 kts	246°	eol 20B / sol 26A
2330	02/350	27°44.8' N	96°05.6' W	79	6.5 kts	245°	
2346	03/690	27°44.2' N	96°07.6' W	80	7.3 kts	254°	

res 2700 gms 2600







beginning of  
a week (2")

Line name: <u>MUD95-40A</u>	Energy: <u>J/PSI</u>	Tape #: _____
Descr: <u>MUD95</u>	Firing Rate: <u>3 sec</u>	Filter: _____
Date: <u>8-29-95 (8-30-95 GMT)</u>	Geophones: <u>ITI streamer</u>	Source: <u>1540 ci</u>

Time GMT	SP/Fix	LAT.	LONG.	WD (m)	Ship spd/dir	Nav. system	Notes
0335	2/0	27°39.50' N	96°45.61' W	34	5.0 (knts)	210°	80' MUD95-40A EPC=0 delay; 150-1500 Hz
0345	3/215	27°38.74' N	96°46.25' W	34	6.0	211°	84db gain
0400	4/510	27°37.65' N	96°47.14' W	34	4.8	203°	ELICS= 64db gain agc=1
0415	5/810	27°36.47' N	96°48.15' W	34	6.5	225°	Full DN=64db agc=1
0430	6/1110	27°35.40' N	96°49.33' W	34	6.0	180°	160-800 Hz
0435	7/1230	27°34.89' N	96°49.39' W	34	6.0	207°	WP 43, heading for WP44
0445	8/1410	27°34.05' N	96°49.99' W	35	6.0	208°	
0500	9/1710	27°32.70' N	96°50.80' W	35	6.2	212°	
0515	10/2010	27°31.55' N	96°51.90' W	34	6.0	207°	
0530	11/2310	27°30.27' N	96°52.78' W	34	5.5	206°	
0545	12/2610	27°29.02' N	96°53.74' W	34	5.0	205°	
0600	13/2910	27°27.73' N	96°54.60' W	34	6.4	207°	
0615	14/3240	27°26.11' N	96°55.81' W	34	6.8	217°	
0620							Don't watch LAB heading for WP44
0630	5/3500	27°24.09' N	96°56.4' W	34	4.8	204°	@ WP44, heading for WP45
0645	6/3800	27°23.6' N	96°57.1' W	34	6.4	196°	
0700	7/4100	27°22.2' N	96°57.8' W	34	6.8	194°	shallow channel(?) 3750-3900
0715	8/4420	27°20.8' N	96°58.7' W	34	6.3	195°	
0730	9/4717	27°19.4' N	96°59.2' W	35	6.3	195°	
0745	20/5020	27°18.09' N	97°00.06' W	34	6.4	199°	
0748	20/00	27°17.77' N	97°00.2' W		6.3	200°	sol MUD95-40A Elics hi pass on 160
0800	01/275	27°16.6' N	97°00.7' W	34	6.0	198°	sol MUD95-40B
0804							
0808	02/430	27°15.90' N	97°01.1' W	34	5.4	186°	change Elics hi pass from 80→100
0815	03/550	27°15.14' N	97°01.3' W	34	5.8	186°	@ WP45, heading for WP46
0826							
0830	04/850	27°13.8' N	97°01.5' W	34	5.6	182°	change Elics hi pass from 100→120
0845	05/1150	27°12.5' N	97°02.0' W	34	6.6	188°	
0900	06/1450	27°10.95' N	97°02.3' W	35	5.6	188°	still heading for WP46
0915	07/1750	27°09.4' N	97°02.4' W	35	6.2	182°	
0930	08/2050	27°08.0' N	97°02.9' W	35	6.2	197°	
0945	09/2350	27°06.6' N	97°03.5' W	34	5.7	190°	
1000	10/2650	27°05.2' N	97°03.8' W	34	6.4	180°	
1015	11/2970	27°03.5' N	97°04.2' W	34	6.0	177°	
1018	00/00	27°03.1' N	97°04.2' W				@ WP46, heading to RID WP01 20° turn
1030	01/250	27°02.1' N	97°04.2' W	34	6.5	174°	sol 40B /sol 40C (hi pass from 160→80)
1045	02/550	27°00.56' N	97°04.2' W	35	6.0	184°	
1100	03/850	26°59.07' N	97°04.18' W	35	6.0	173°	

Furuno is out, no nav string on EPC. Will work on it.

slightly off course to avoid delay

new 2830 res 2600



Line name: MUD9540C-R1095-01A-02A

Energy: \_\_\_\_\_ J/PSI

Tape #: \_\_\_\_\_

Descr: MUD95-Rio95

Firing Rate: 35

Filter:

Date: 08/30 (cont)

Geophones: 177 streamer

Source: 15H<sub>2</sub>O ci

Elice  
Gulston  
Trenard (H<sub>2</sub>O)  
EPC

p. 15

2:15 pm

[illegible]



Line name: Rio 95-2B Energy: J/PSI Tape #:   
 Descr: Rio 95 Firing Rate: 3 sec Filter:   
 Date: 08/30/95 (gmt) - 8/31/95 (gmt) Geophones: ITT stream Source: 15 H<sub>2</sub>O ci

@ higher depths Furuno  
 really acts up & gain doesn't  
 help, so turning it on & 086  
 worked.

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Time	SP/Fix	LAT.	LONG.	WD (m)	Ship spd/dir	Nav. system	Notes
1816	0/6	26° 58.17' N	96° 22.44' W	202	5.45 (JHS)	184°	Sol Rio 95-2B EPC delay = 250 ms
1830	1/275	26° 56.95' N	96° 22.79' W	310	6.00	183°	EPC delay = 300 Gulton origin = 250 ms
1845	2/580	26° 55.4' N	96° 22.9' W	328	6.0	182°	Elics record length = 1024 ms
1900	3/880	26° 54.0' N	96° 23.3' W	319	6.4	181°	filters = 160-800 Hz
1903	4/940	26° 53.7' N	96° 23.3' W	211	5.8	190°	sol 2B @ WP3 heading to WP4
1904	0/6	26° 53.7' N	96° 23.69' W	lost Furuno	7.0	263°	sol 3A → 1932 pallas shelf edge
1915	1/280	26° 53.84' N	96° 24.97' W		7.0	277°	
1930	2/580	26° 53.7' N	96° 26.8' W	200	6.5	262°	a. EPC delay = 200 ms
1945	3/835	26° 53.5' N	96° 28.7' W	170	6.9	262°	Gulton origin = 280 ms
1952							EPC delay = 0 ms Gulton origin = 100 ms
2000	4/1140	26° 53.5' N	96° 30.6' W	140	6.3	262°	then a to 10015 → Elics shipboard gain 160-800 Hz
2015	5/1435	26° 53.46' N	96° 32.31' W	121	6.3	262°	
2030	6/1738	26° 53.3' N	96° 34.13' W	110	6.5	262°	still heading for WP4
2045	7/2030	26° 53.2' N	96° 35.85' W	100	6.5	260°	
2100	8/2342	26° 53.0' N	96° 37.7' W	94	6.3	264°	
2115	9/2632	26° 53.0' N	96° 39.5' W	89	6.5	265°	deep ~ surface
2130	10/2930	26° 53.0' N	96° 41.2' W	85	6.5	263°	sol 3A / sol 3B Elics
2145	01/287	26° 52.9' N	96° 43.0' W	80	6.6	264°	15 trace length from 1024-1800 ms
2200	02/600	26° 53.0' N	96° 44.8' W	74	6.5	265°	EPC same param
2208	03/750	26° 52.9' N	96° 45.9' W	71	6.5	260°	changed Elics origin from 100-500 ms
2215	04/900	26° 52.9' N	96° 46.8' W	70	6.6	261°	@ WP4, heading to WP5
2230	05/1187	26° 52.7' N	96° 48.4' W	64	6.5	260°	2213 see Furuno? channel?
2245	06/1487	26° 52.6' N	96° 50.3' W	60	6.5	260°	still eras. temp.
2300	07/1787	26° 52.6' N	96° 52.2' W	56	6.5	260°	? buried reef
2315	08/2090	26° 52.5' N	96° 54.0' W	51	6.5	260°	
2330	09/2380	26° 52.4' N	96° 55.7' W	48	6.0	260°	
2345	10/2680	26° 52.4' N	96° 57.5' W	44	6.0	260°	eras. surf.
0000	11/2990	26° 52.1' N	96° 59.3' W	41	6.5	260°	new watch - BJE way deep erosional surface
0015	12/3290	26° 52.1' N	97° 01.2' W	38	6.5	257°	
0030	13/3590	26° 51.9' N	97° 02.9' W	36	6.8	274°	
0045	14/3890	26° 52.0' N	97° 04.8' W	34	6.8	262°	(2) WP5
0100	15/4185	26° 51.8' N	97° 06.7' W	31	6.1	262°	Gulton origin changed to 0 ms
0115	16/4490	26° 51.7' N	97° 08.5' W	29	6.0	261°	
0130	17/4790	26° 51.65' N	97° 10.30' W	27	6.0	261°	
0145	18/5090	26° 51.57' N	97° 12.20' W	26	6.0	261°	
0200	19/5390	26° 51.47' N	97° 14.10' W	23	6.5	260°	
0211	20/5600	26° 51.43' N	97° 15.38' W	19	6.0	275°	
0213	0/6	26° 51.27' N	97° 15.55' W	20	6.5	161°	sol 3B @ WP6 sol 4A



Line name: RIO 95-4A, 5A, 5B Energy: J/PSI Tape #: \_\_\_\_\_  
 Descr: RIO 95 Firing Rate: 3 Sec Filter: \_\_\_\_\_  
 Date: 08-31-95 Geophones: ITI Streamer Source: 1540ci

Elics  
Gulton  
EPC

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Time	SP/Fix	LAT.	LONG.	WD(m)	Ship spd/dir	Nav. system	Notes
0230	1/370	26°49.48'N	97°15.16'W	20	6.0 kts	158°	
0235	2/470	26°49.04'N	97°15.00'W	20	6.5	154°	
0245	3/670	26°47.8'N	97°14.8'W	20	6.5	181°	① WP7
0300	4/970	26°46.32'N	97°14.59'W	19	6.0	153°	
0303	5/1035	26°46.05'N	97°14.48'W	19	6.0	140°	End 4A
0304	0/0	26°46.07'N	97°14.23'W	20	6.0	050°	End 4A @ WP8
0315	1/235	26°46.44'N	97°13.11'W	20	6.5	055°	End 5A
0330	2/535	26°47.09'N	97°11.57'W	25	6.25	063°	
0345	3/835	26°47.62'N	97°09.93'W	28	6.5	058°	
0348	4/900	26°47.72'N	97°09.67'W	28	6.25	049°	② WP9
0400	5/1135	26°47.93'N	97°08.30'W	29	5.75	080°	gauges-good LAB
0415	6/1435	26°48.12'N	97°06.62'W	30	6.5	079°	New watch
0430	7/1725	26°48.31'N	97°04.95'W	33	6.5	078°	
0446	8/2050	26°48.38'N	97°03.21'W	35	6.25	080°	backstepping gauges✓
0500	9/2333	26°48.4'N	97°01.4'W	37	6.3	080°	
0515	10/2635	26°48.6'N	96°59.7'W	40	6.5	079°	0505 Reef gauges✓
0530	11/2935	26°48.6'N	96°58.2'W	42	7.0	079°	ered. surf.
0545	12/3230	26°48.7'N	96°56.2'W	45	6.5	078°	gauge✓
0552	13/3380	26°48.8'N	96°55.4'W	47	6.2	080°	
0600	14/3527	26°48.96'N	96°54.5'W	49	6.6	078°	@ WP10, heading to WP11 (O <sub>2</sub> core)
0615	15/3835	26°49.1'N	96°52.7'W	52	6.5	078°	shallow channel log
0630	16/4130	26°49.2'N	96°50.9'W	56	6.2	080°	
0645	17/4433	26°49.3'N	96°49.2'W	60	6.4	078°	gauge✓
0647							End 5A Elics trace 450ms Gulton 100ft
0700	01/280	26°49.5'N	96°47.4'W	65	6.4	078°	End 5B Elics 1024ms hi pass filter
0715	02/580	26°49.5'N	96°45.7'W	69	6.2	078°	0705 Reef gauges chng Gulton
0730	03/875	26°49.7'N	96°44.6'W	75	6.6	075°	~350 bright spot @ ~300ms SP650-channel
0745	04/1150	26°50.0'N	96°42.3'W	81	6.5	078°	gauges✓ @ 230ms
0800	05/1475	26°50.3'N	96°40.6'W	86	7.2	078°	
0815	06/1775	26°50.6'N	96°39.1'W	90	6.6	080°	gauges✓
0821	07/1915	26°50.3'N	96°38.5'W	92			
0830	08/2075	26°50.3'N	96°37.5'W	95	6.4	082°	O <sub>2</sub> core #!! @ WP11 heading to WP12
0845	09/2375	26°50.4'N	96°35.8'W	101	4.9	080°	0835 EPC ~100ms delay 0828 & Gulton rig to 100ms
0900	10/2675	26°50.6'N	96°34.1'W	108	6.5	070°	
0915	11/2975	26°50.7'N	96°32.3'W	120	6.0	080°	gauges✓
0930	12/3275	26°50.8'N	96°30.5'W	139	6.0	080°	
0945	13/3585	26°50.9'N	96°28.7'W	175	6.5	080°	change Elics rig to 150 EPC delay to 150
1000	14/3880	26°51.0'N	96°26.9'W	207	6.5	080°	0930 Elics 200ms EPC 200ms
							1004 Elics 250ms EPC 250ms gauges✓



Furuno

EPC

Elies

Galton

newline  
1430

p. 18

C = calculated  
from records7 track  
length  
1024

Line name: <u>Rio 95-5B, 7A, 7B, 8A, 9A, 9B</u>	Energy: <u>J/PSI</u>	Tape #: _____
Descr: <u>Rio 95</u>	Firing Rate: <u>3s</u>	Filter: _____
Date: <u>08-31-95 (gmt)</u>	Geophones: <u>111 Steamer</u>	Source: <u>1540 ci</u>

Time	SP/Fix	LAT.	LONG.	WD <sup>(m)</sup>	Ship spd/dir	Nav. system	Notes
1015	15/4183	26°51.1' N	96°25.1' W	241	6.5 (kts)	080°	cont. 5B 1 mile to WP12
1022	16/4322	26°51.2' N	96°24.4' W	294	6.0	075°	2 @ WP12 sol 5B sol 7A turning that
1030	01/150	26°51.7' N	96°25.1' W	263	6.5	249°	obscure heading to wrong WP-coast
1045	02/450	26°51.4' N	96°26.6' W	207	6.0	250°	2 distinct oscilloscope pulses
1100	03/750	26°51.0' N	96°21.3' W	176	6.5	248°	1049 EPC delay from 250-150 ms 1052 Elies origin 250-200 ms
1115	04/1050	26°50.6' N	96°30.0' W	146	6.0	248°	stom 2dumps
1130	05/1350	26°50.1' N	96°31.7' W	124	6.5	249°	1131 EPC delay 55ms Elies origin 100
1145	06/1650	26°49.7' N	96°33.3' W	111	6.0	249°	
1200	07/1950	26°49.3' N	96°35.0' W	120 ~	5.0	250°	1100 watch 100
1215	08/2250	26°48.9' N	96°36.6' W	~105 C	6.5	249°	1100 watch 100
1230	09/2550	26°48.6' N	96°38.3' W	~99 C	6.5	248°	1100 watch 100
1245	10/2850	26°48.2' N	96°39.9' W	~95 C	6.0	248°	1100 watch 100
1300	11/3150	26°47.89' N	96°41.54' W	~90 C	6.0	245°	1100 watch 100
1315	12/3450	26°47.46' N	96°43.18' W	~84 C	5.75	245°	1100 watch 100
1330	13/3750	26°47.06' N	96°44.84' W	~79 C	6.0	248°	1100 watch 100
1345	14/4050	26°46.63' N	96°46.51' W	~72 C	6.0	248°	Galton origin = 50ms Reef gauges
1400	15/4350	26°46.17' N	96°48.18' W	~68 C	6.5	248°	
1415	16/4650	26°45.78' N	96°49.81' W	~63 C	6.25	248°	
1430	1/285	26°45.40' N	96°51.55' W	~60 C	6.25	248°	sol 7A / sol 7B
1445	2/585	26°44.94' N	96°53.21' W	~57 C	6.0	248°	EPC delay = 0ms
1500	3/890	26°44.50' N	96°54.94' W	~53 C	6.3	258°	7 track length
1515	4/1190	26°44.09' N	96°56.61' W	~50 C	6.5	247°	gauges
1530	5/1485	26°43.67' N	96°58.38' W	~48 C	5.0	247°	
1545	6/1785	26°43.17' N	96°00.03' W	~44 C	6.5	248°	gauges
1600	7/2085	26°42.67' N	97°01.78' W	~40 C	6.75	248°	
1615	8/2385	26°42.26' N	97°03.51' W	~34 C	7.0	280°	
1630	9/2685	26°41.74' N	97°05.34' W	~31 C	6.75	246°	
1645	10/2985	26°41.25' N	97°07.02' W	~29 C	7.0	248°	gauges
1700	11/3285	26°40.85' N	97°08.77' W	~25 C	6.5	249°	
1715	12/3590	26°40.4' N	97°10.4' W	~21 C	7.0	252°	
1723	13/3740	26°40.2' N	97°11.3' W	~19 C	6.2	241°	gauges
1815	0/0	26°40.3' N	97°11.5' W	19	6.2	141°	sol 7B @ WP13
1830	1/330	26°38.6' N	97°10.6' W	20	6.7	150°	sol 8A
1843	2/585	26°37.2' N	97°10.0' W	20	6.5	155°	most bundles profiles backed up #1
1845	0/0	26°37.1' N	97°09.7' W	20	6.0	069°	sol 8A @ WP14
1900	1/330	26°37.6' N	97°08.0' W	23	6.5	068°	sol 9A
2040							gunblew - rebuilding gauges
2100		26°37.23' N	97°09.96' W		6.0	236°	gun 9B next to WP14 - heading turning to begin line



Line name: Rio 95-2BEnergy: J/PSI

Tape #: \_\_\_\_\_

Descr: Rio 95Firing Rate: 3 sec

Filter: \_\_\_\_\_

Date: 08/30/95 (gmt) - 8/31/95 (gmt)Geophones: ITI streamSource: 15 Hz ci

@ higher depths Furuno  
really acts up & gain doesn't  
help, so turning it on & 0.86  
worked.

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Time	SP/Fix	LAT.	LONG.	WD (m)	Ship spd/dir	Nav. system	Notes
1816	0/0	26° 58.17' N	96° 22.44' W	202	5.75 (JHS)	184°	Sol Rio 95-2B EPC delay = 250 ms
1830	1/295	26° 56.95' N	96° 22.79' W	210	6.00	183°	EPC delay = 300 Gulton origin = 250 ms
1845	2/580	26° 55.4' N	96° 22.9' W	328	6.0	182°	Elics record length = 1024 ms
1900	3/880	26° 54.0' N	96° 23.3' W	319	6.4	181°	filters = 160-800 Hz
1903	4/940	26° 53.7' N	96° 23.3' W	211	5.8	190°	sol 2B @ WP3 heading to WP4
1904	0/0	26° 53.7' N	96° 23.69' W	lost Furuno	7.0	263°	sol 3A → 1932 paleo-shelf edge
1915	1/280	26° 53.84' N	96° 24.97' W		7.0	277°	a. EPC delay = 200 ms
1930	2/580	26° 53.7' N	96° 26.8' W	~200	6.5	262°	Gulton origin = 250 ms
1945	3/835	26° 53.5' N	96° 28.7' W	170	6.9	262°	EPC delay = 202 ms Gulton origin = 100 ms
1952							then A to 10015 → Elics shipson from 160-800 Hz
2000	4/1140	26° 53.5' N	96° 30.6' W	140	6.3	262°	
2015	5/1435	26° 53.46' N	96° 32.31' W	121	6.3	262°	
2030	6/1738	26° 53.3' N	96° 34.13' W	110	6.5	262°	still heading by WP4
2045	7/2030	26° 53.2' N	96° 35.85' W	100	6.5	260°	
2100	8/2342	26° 53.0' N	96° 37.7' W	94	6.3	264°	
2115	9/2632	26° 53.0' N	96° 39.5' W	89	6.5	265°	deep ~ surface
2130	10/2930	26° 53.0' N	96° 41.2' W	85	6.5	263°	sol 3A / sol 3B Elics
2145	01/287	26° 52.9' N	96° 43.0' W	80	6.6	264°	12 trace length from 1024-1800 ms
2200	02/600	26° 53.0' N	96° 44.8' W	74	6.5	265°	EPC same param
2208	03/750	26° 52.9' N	96° 45.9' W	71	6.5	260°	changed Elics origin from 100-500 ms
2215	04/900	26° 52.9' N	96° 46.8' W	70	6.6	261°	@ WP4, heading to WP5
2230	05/1187	26° 52.7' N	96° 48.4' W	64	6.5	260°	2213 see Furuno? channel?
2245	06/1487	26° 52.6' N	96° 50.3' W	60	6.5	260°	still no temp.
2300	07/1787	26° 52.6' N	96° 52.2' W	56	6.5	260°	? buried reef
2315	08/2090	26° 52.5' N	96° 54.0' W	51	6.5	260°	
2330	09/2380	26° 52.4' N	96° 55.7' W	48	6.0	260°	
2345	10/2680	26° 52.4' N	96° 57.5' W	44	6.0	260°	ves. surf.
8/31 0000	11/2990	26° 52.1' N	96° 59.3' W	41	6.5	260°	new watch - BJE way deeper erosional surface 270 ms
0015	12/3290	26° 52.1' N	97° 01.2' W	38	6.5	257°	
0030	13/3590	26° 51.9' N	97° 02.9' W	36	6.8	274°	
0045	14/3890	26° 52.0' N	97° 04.8' W	34	6.8	262°	@ WP5
0100	15/4185	26° 51.8' N	97° 06.7' W	31	6.1	262°	Gulton origin changed to 0 ms
0115	16/4490	26° 51.7' N	97° 08.5' W	29	6.0	261°	
0130	17/4790	26° 51.65' N	97° 10.30' W	27	6.0	261°	
0145	18/5090	26° 51.57' N	97° 12.20' W	26	6.5	260°	
0200	19/5390	26° 51.47' N	97° 14.10' W	23	6.0	275°	
0211	20/5600	26° 51.43' N	97° 15.38' W	19	6.5	161°	sol 3B @ WP6
0213	0/0	26° 51.27' N	97° 15.55' W	20	6.5		sol 4A



Line name: RIO 95-4A, 5A, 5B Energy: J/PSI Tape #:             
 Descr: RIO 95 Firing Rate: 3 sec Filter:             
 Date: 08-31-95 Geophones: ITI Streamer Source: 1540 ci

Elics  
Gulton  
EPC

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Time	SP/Fix	LAT.	LONG.	WD(m)	Ship spd/dir	Nav. system	Notes
0230	1/370	26°49.48'N	97°15.16'W	20	6.0 (KTS)	158°	
0235	2/470	26°49.04'N	97°15.00'W	20	6.5	154°	
0245	3/670	26°47.8' N	97°14.8' W	20	6.5	181°	② WP7
0300	4/970	26°46.32'N	97°14.59'W	19	6.0	153°	
0303	5/1035	26°46.05'N	97°14.48'W	19	6.0	140°	Post 4A
0304	0/0	26°46.07'N	97°14.23'W	20	6.0	050°	End 4A @ WP8
0315	1/235	26°46.44'N	97°13.11'W	20	6.5	055°	End 5A
0330	2/535	26°47.09'N	97°11.57'W	25	6.25	063°	
0345	3/835	26°47.62'N	97°09.93'W	28	6.5	058°	
0348	4/900	26°47.72'N	97°09.67'W	28	6.25	049°	@ WP9
0400	5/1135	26°47.93'N	97°08.30'W	29	5.75	080°	gauges-good LAB
0415	6/1435	26°48.12' N	97°06.62'W	30	6.5	079°	New watch
0430	7/1725	26°48.31' N	97°04.95'W	33	6.5	078°	
0446	8/2050	26°48.28' N	97°03.01'W	35	6.25	080°	backstepping
0500	9/2333	26°48.4' N	97°01.4' W	37	6.3	080°	0505 Reef
0515	10/2635	26°48.6' N	96°59.7' W	40	6.5	079°	grad. sub.
0530	11/2935	26°48.6' N	96°58.0' W	42	7.0	079°	
0545	12/3230	26°48.7' N	96°56.2' W	45	6.5	078°	gauges ✓
0552	13/3380	26°48.8' N	96°55.4' W	47	6.2	080°	
0600	14/3527	26°48.96' N	96°54.5' W	49	6.6	078°	@ WP10, heading to WP11 (O <sub>2</sub> core)
0615	15/3835	26°49.1' N	96°52.7' W	52	6.5	078°	shallow channel log
0630	16/4130	26°49.2' N	96°50.9' W	56	6.2	080°	
0645	17/4433	26°49.3' N	96°49.2' W	60	6.4	078°	gauges ✓
0647							End 5A
0700	01/280	26°49.5' N	96°47.4' W	65	6.4	078°	Elics trace 450ms Gulton 100th
0715	02/580	26°49.5' N	96°45.7' W	69	6.2	078°	End 5B Elics 1024ms hi pass filter
0730	03/875	26°49.7' N	96°44.6' W	75	6.6	075°	0705 Reef gauges chng Gulton
0745	04/1180	26°50.0' N	96°42.3' W	81	6.5	078°	~3500 bright spot @ ~200ms SP650-channel
0800	05/1475	26°50.3' N	96°40.6' W	86	7.2	078°	gauges ✓ @ 230ms
0815	06/1775	26°50.6' N	96°39.1' W	90	6.6	080°	gauges ✓
0821	07/1915	26°50.3' N	96°38.5' W	92			
0830	08/2075	26°50.3' N	96°37.5' W	95	6.4	082°	O <sub>2</sub> core #!! @ WP11 heading to WP12
0845	09/2375	26°50.4' N	96°35.8' W	101	4.9	080°	0835 EPC 6→100ms delay 0838 Gulton rig to 100ms
0900	10/2675	26°50.6' N	96°34.1' W	108	6.5	070°	
0915	11/2975	26°50.7' N	96°32.3' W	120	6.0	080°	gauges ✓
0930	12/3275	26°50.8' N	96°30.5' W	139	6.0	080°	
0945	13/3585	26°50.9' N	96°28.7' W	175	6.5	080°	change Elics rig to 150ms 3PC delay to 150
1000	14/3880	26°51.0' N	96°26.9' W	207	6.5	080°	CR50 → Elics 200ms 3PC 200ms
							1004 Elics 250ms EPC 250ms gauges ✓



Furano

EPC

Elies

Galton

rewline  
1430

p. 18

C = calculated  
from records↑ track  
length  
1024

Line name: <u>Rio 95-5B, 7A, 7B, 8A, 9A, 9B</u>	Energy: <u>J/PSI</u>	Tape #: _____
Descr: <u>Rio 95</u>	Firing Rate: <u>3s</u>	Filter: _____
Date: <u>08-31-95 (gmt)</u>	Geophones: <u>IT1 streamer</u>	Source: <u>1540 ci</u>

Time	SP/Fix	LAT.	LONG.	WD <sup>(m)</sup>	Ship spd/dir	Nav. system	Notes
1015	15/4183	26°51.1' N	96°25.1' W	241	6.5 (kts)	080°	cont. 5B 1 mile to WP12
1022	16/4322	26°51.2' N	96°24.4' W	294	6.0	075°	@ WP12 col 5B sol 7A turning <sup>that</sup>
1030	01/150	26°51.7' N	96°25.1' W	263	6.5	249°	off course heading to wrong WP - correct
1045	02/450	26°51.4' N	96°26.6' W	207	6.0	250°	2 distinct oscilloscope pulses
1100	03/750	26°51.0' N	96°21.3' W	176	6.5	248°	1049 EPC delay from 250-150 ms 1052 Elies origin 250-200 ms
1115	04/1050	26°50.6' N	96°30.0' W	146	6.0	248°	storm gauge
1130	05/1350	26°50.1' N	96°31.7' W	124	6.5	249°	1131 EPC delay 55ms Elies origin 100
1145	06/1650	26°49.7' N	96°33.3' W	111	6.0	249°	
1200	07/1950	26°49.3' N	96°35.0' W	120 ~	5.0	250°	NCW watch 1-3c gauges ✓
1215	08/2250	26°48.9' N	96°36.6' W	~105 C	6.5	249°	RPW watch 6JE gauges ✓
1230	09/2550	26°48.6' N	96°38.3' W	~99 C	6.5	248°	
1245	10/2850	26°48.2' N	96°39.9' W	~95 C	6.0	248°	gauges ✓
1300	11/3150	26°47.89' N	96°41.54' W	~90 C	6.0	245°	
1315	12/3450	26°47.46' N	96°43.18' W	~84 C	5.75	245°	gauges ✓
1330	13/3750	26°47.06' N	96°44.84' W	~79 C	6.0	248°	
1345	14/4050	26°46.63' N	96°46.51' W	~72 C	6.0	248°	Galton origin = 50ms Reef gauges ✓
1400	15/4350	26°46.17' N	96°48.18' W	~68 C	6.5	248°	
1415	16/4650	26°45.78' N	96°49.81' W	~63 C	6.25	248°	
1430	1/285	26°45.40' N	96°51.55' W	~60 C	6.25	248°	col 7A / sol 7B gauges ✓
1445	2/585	26°44.94' N	96°53.21' W	~57 C	6.0	248°	EPC delay = 0ms
1500	3/890	26°44.50' N	96°54.94' W	~53 C	6.3	248°	↑ track length
1515	4/1190	26°44.09' N	96°56.61' W	~50 C	6.5	258°	gauges ✓
1530	5/1485	26°43.67' N	96°58.38' W	~48 C	5.0	247°	
1545	6/1785	26°43.17' N	96°00.03' W	~44 C	6.5	247°	gauges ✓
1600	7/2085	26°42.67' N	97°01.78' W	~40 C	6.75	248°	
1615	8/2385	26°42.26' N	97°03.51' W	~34 C	7.0	248°	
1630	9/2685	26°41.74' N	97°05.34' W	~31 C	6.75	246°	
1645	10/2985	26°41.25' N	97°07.02' W	~29 C	7.0	248°	gauges ✓
1700	11/3285	26°40.85' N	97°08.77' W	~25 C	6.5	249°	
1715	12/3590	26°40.4' N	97°10.4' W	~21 C	7.0	252°	
1723	13/3740	26°40.2' N	97°11.3' W	19 C	6.2	241°	col 7B @ WP13 gauges ✓
1815	0/0	26°40.3' N	97°11.5' W	19	6.2	141°	sol 8A
1830	1/330	26°38.6' N	97°10.6' W	20	6.7	150°	↑ track length profiles backed up #1
1843	2/585	26°37.2' N	97°10.0' W	20	6.5	155°	
1845	0/0	26°37.1' N	97°09.7' W	20	6.0	069°	col 8A @ WP14
1900	1/330	26°37.6' N	97°08.0' W	23	6.5	068°	sol 9A
2040							gunblew - rebuilding gauges ✓
2100		26°37.23' N	97°09.96' W		6.0	236°	gun popping heading to WP14 then turning to begin line







Line name: RIO 95 13A, 15B, 16A, 16B  
 Descr: RIO 95  
 Date: 09-1-95  
 Energy: J/PSI  
 Firing Rate: 3 sec.  
 Geophones: ITT Streamer  
 Tape #:   
 Filter:   
 Source: 15 H<sub>2</sub>O ci

Elves  
 EPC  
 Gulton

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Time	SP/Fix	LAT.	LONG.	WD(m)	Ship spd/dir	Nav. system	Notes
1430	6/1920	26°18.2' N	97°05.3' W	18	6.0 (kts)	177°	eol 13A @ WP20
1431	0/0	26°18.11' N	97°05.23' W	18	5.5	067°	eol 15A
1445	1/275	26°18.37' N	97°04.10' W	19	4.5	070°	3-Aft son
1500	2/580	26°18.66' N	97°02.71' W	20	5.0	067°	gauges ✓
1507	3/880	26°18.87' N	97°02.06' W	23			eol 15A generator went down, had to turn everything off
1585	0/0	26°18.8' N	97°02.1' W	23	5.5	070°	eol 15B
1545	1/395	26°19.3' N	97°00.24' W	28	4.5	053°	
1600	2/695	26°19.66' N	96°58.84' W	29	5.5	004°	
1615	3/995	26°20.12' N	96°57.48' W	32	5.5	070°	
1630	4/1295	26°20.38' N	96°55.95' W	36	5.5	070°	
1645	5/1595	26°20.5' N	96°54.4' W	36	5.5	075°	
1700	6/1895	26°20.7' N	96°52.86' W	37	5.0	075°	gauges ✓ res. a little high (2800) → told Mark
1715	7/2195	26°20.9' N	96°51.2' W	38	6.2	070°	
1717	8/2255	26°20.9' N	96°51.0' W	39		0	
1718	0/0	26°21.0' N	96°50.9' W	39	6.5	336°	eol 15B @ WP21B
1730	1/245	26°22.2' N	96°51.3' W	38	6.2	337°	eol 16A. Odelay EPC
1745	2/345	26°23.8' N	96°51.8' W	38	5.8	335°	gauges ✓
1800	3/845	26°25.2' N	96°52.3' W	38	6.3	336°	
1815	4/1140	26°26.74' N	96°52.85' W	38	6.1	325°	
1830	5/1440	26°28.18' N	96°53.41' W	38	6.7	334°	
1845	6/1745	26°29.7' N	96°53.9' W	38	6.1	333°	gauges ✓
1900	7/2045	26°31.1' N	96°54.4' W	38	5.0	340°	
1915	8/2345	26°32.67' N	96°54.96' W	38	6.0	334°	
1930	9/2045	26°34.1' N	96°55.4' W	38	5.8	337°	gauges ✓
1945	10/2945	26°35.6' N	96°55.9' W	38	6.5	335°	
2000	11/3245	26°37.08' N	96°56.45' W	38	6.0	334°	gauges ✓
2015	12/3550	26°38.82' N	96°57.07' W	38	6.5	336°	
2030	13/3850	26°40.24' N	96°57.53' W	38	6.1	337°	New Watch LAR
2045	14/4150	26°41.7' N	96°58.1' W	38	6.6	336°	gauges ✓
2100	15/4465	26°43.25' N	96°58.56' W	39	6.6	337°	
2115	16/4750	26°44.5' N	96°58.9' W	38	5.5	338°	
2130	17/5050	26°45.9' N	96°59.4' W	39	4.6	335°	
2145	18/5350	26°47.3' N	96°59.9' W	38	5.5	339°	Inm to WP22B
2147	19/5395	26°47.4' N	97°00.0' W	38	5.0	348°	
2200	01/240	26°48.65' N	97°00.17' W	38	6.6	348°	eol 16A/eol 16B has length 480m @ WP22B heading to WP23B



p 22

Line name: <u>Rio-95-116B</u>	Energy: _____ J/PSI	Tape #: _____
Descr: <u>Rio 95</u>	Firing Rate: <u>3s</u>	Filter: _____
Date: <u>09/01/95 - 09/02/95</u>	Geophones: <u>17</u>	Source: <u>15 H<sub>2</sub>O ci</u>

[illegible]



beginning of  
week 3

p23

B-2330

(after 2 hrs of  
trying to get the  
Elics to work)

Line name: <u>MUD 95 50A-Rio 99A, 18A</u>	Energy: <u>J/PSI</u>	Tape #: <u></u>
Descr: <u>MUD 95 / Rio 95</u>	Firing Rate: <u>3 sec</u>	Filter: <u></u>
Date: <u>9-5-95 (gmt)</u>	Geophones: <u>ITI stream</u>	Source: <u>1542 ci</u>

Time	SP/Fix	LAT.	LONG.	WD (m)	Ship spd/dir	Nav. system	Notes
1622	1/370	27°18.1' N	96°38.9' W	73	6.4 (12)	135°	SOL MUD 95-50A @ WP24b
1630	2/535	27°17.4' N	96°39.2' W	73	5.0	198°	
1636	3/680	27°17.0' N	96°39.4' W	73	5.5	210°	@ WP25b
1645	4/835	27°16.1' N	96°39.7' W	73	6.0	189°	
1700	5/1135	27°14.7' N	96°40.1' W	74	5.5	188°	
1715	6/1430	27°13.3' N	96°40.6' W	75	6.0	191°	
1730	7/1735	27°11.9' N	96°41.0' W	75	5.5	193°	gauges ✓
1745	8/2030	27°10.6' N	96°41.4' W	75	6.0	186°	
1800	9/2330	27°09.27' N	96°41.84' W	76	6.1	192°	
1815	10/2630	27°09.8' N	96°42.1' W	76	6.0	190°	
1819	11/2720	27°09.5' N	96°42.3' W	76	6.5	130°	@ WP26b
1830	12/2920	27°06.55' N	96°42.45' W	76	5.9	172°	gauges ✓
1845	13/2230	27°05.0' N	96°42.5' W	76	6.5	177°	
1900	14/3535	27°03.4' N	96°42.6' W	77	6.0	175°	
1906	15/3045	27°02.8' N	96°42.7' W	72	6.0	179°	@ WP27b
1915	16/3835	27°01.84' N	96°42.72' W	80	7.2	174°	gauges ✓
1930	17/4135	27°00.1' N	96°42.6' W	79	6.5	170°	SOL MUD 50A
1932	0/0	26°59.9' N	96°42.4' W	79	6.0	084°	RIO 95-99A
1945	1/265	26°59.9' N	96°41.0' W	83	5.5	084°	gauges ✓
2000	2/505	27°00.0' N	96°39.3' W	88	6.5	086°	
2008	3/740	27°00.0' N	96°38.4' W	91	6.0	089°	
2009	0/0	26°59.8' N	96°38.3' W	91	5.5	175°	RIO 95-99A
2015	01/130	26°59.3' N	96°38.3' W	91	6.0	174°	SOL RIO 95-18A WP29 EPC delay=100ms
2030	02/425	26°57.8' N	96°38.4' W	91	6.0	174°	
2045	03/727	26°56.24' N	96°38.53' W	91	5.2	174°	
2100	04/1025	26°54.8' N	96°38.5' W	91	5.2	175°	gauges ✓
2115	05/1330	26°53.22' N	96°38.52' W	91	5.9	174°	
2122	06/1490	26°52.5' N	96°38.5' W	91	6.7	176°	@ WP30 heading to WP31
2130	07/1625	26°51.7' N	96°38.5' W	91	5.6	174°	@ WP31
2143	08/1895	26°50.4' N	96°38.5' W	91	6.6	177°	gauges ✓
2200	09/2227	26°48.7' N	96°38.3' W	91	5.4	166°	@ WP31
2215	10/2540	26°47.07' N	96°38.13' W	91	6.3	165°	near WP32
2230	11/2846	26°45.56' N	96°37.88' W	90	5.5	160°	gauges ✓
2236	12/2967	26°45.01' N	96°37.77' W	91	6.0	140°	
2245	13/3140	26°44.16' N	96°37.31' W	91	5.9	146°	@ WP32, heading to WP33
2300	14/3425	26°42.96' N	96°36.60' W	93	5.9	150°	gauges ✓
2315	15/3727	26°41.59' N	96°35.86' W	94	6.5	145°	
2330	16/4035	26°40.29' N	96°35.01' W	93	6.0	140°	gauges ✓



Line name: Rio 95-18A, 15A(C), 16C, 23A

Descr: Rio 95

Date: 09/05/95 (gaut) - 09/06/95 (gaut)

Energy: J/PSI

Firing Rate: 3s

Geophones: IT/Shearman

Tape #: \_\_\_\_\_

Filter: \_\_\_\_\_

Source: 15H<sub>2</sub>O ci

Elics  
EPC  
NO Gulton

line 15A should have started @ 0045 instead of 0050. There will be a small spliced piece. p.24

Time	SP/Fix	LAT.	LONG.	WD	Ship spd/dir	Nav. system	Notes
2345	17/4327	26°39.08' N	96°34.27' W	95	5.25	145°	
0000	18/4625	26°37.80' N	96°38.47' W	90	5.5	145°	Cont Rio 95-18A heading to WP33
0001	0/0	26°37.68' N	96°38.41' W	91	5.5	145°	sol 18A @ WP33
0015	01/290	26°36.59' N	96°38.62' W	91	5.25	144°	sol 18B
0030	02/590	26°35.33' N	96°38.92' W	91	6.0	144°	
0045	03/900	26°33.88' N	96°31.63' W	88	5.5	175°	gauges
0056	04/	26°33.22' N	96°32.39' W	85	6.5	223°	missed WP34 continue line then turn
0100	01/75	26°32.90' N	96°32.81' W	83	6.25	223°	new watch - BJE sol 18B/sol 15A to WP35
0115	02/365	26°31.85' N	96°34.23' W	74	6.5	223°	↑ 15A should be removed to ISC
0130	03/665	26°30.72' N	96°35.63' W	68	6.5	223°	EPC delay = 0. smelled smoke in tool room -
0145	04/965	26°29.60' N	96°37.00' W	61	5.7	226°	old Doug - he says it's just the
0200	05/1265	26°28.7' N	96°38.3' W	54	6.5	223°	generator burning a little diesel
0215	06/1565	26°27.6' N	96°39.7' W	49	6.5	222°	gauges
0230	07/1865	26°26.5' N	96°41.0' W	45	6.5	220°	Elics must've missed a fix
0245	08/2165	26°25.4' N	96°42.3' W	44	6.5	225°	
0300	09/2465	26°24.35' N	96°43.7' W	43	6.5	222°	
0314	09/2755	26°23.41' N	96°44.9' W	43	6.5	246°	@ WP35. gauges
0330	10/3065	26°22.4' N	96°46.5' W	41	6.5	235°	
0345	11/3365	26°21.61' N	96°48.11' W	40	6.6	230°	
0400	12/3665	26°21.19' N	96°49.90' W	39	6.7	230°	
0410	13/3885	26°20.9' N	96°51.0' W	39	6.0	185°	new watch LAB
0412	0/0	26°20.8' N	96°51.1' W	39	6.5	184°	sol 15A(15C) @ WP36 gauges
0415	01/100	26°20.5' N	96°51.2' W	39	6.0	181°	sol 16C head to WP37 Elics - 480m
0430	02/385	26°19.0' N	96°51.5' W	39	6.5	183°	EPC - 150-1800
0445	03/685	26°17.5' N	96°51.78' W	38	6.1	183°	sol 16C head to WP37 gauges
0500	04/973	26°15.98' N	96°52.12' W	38	7.1	183°	0.55 scan
0515	05/1295	26°14.4' N	96°52.1' W	38	6.5	165°	mistake, boat was heading to WP 38 not WP37 - corrected
0530	06/1570	26°12.97' N	96°51.9' W	38	6.5	165°	
0545	07/1875	26°11.4' N	96°51.6' W	38(?)	6.4	166°	gauges
0600	08/2173	26°10.0' N	96°51.3' W	39	6.5	164°	
0615	09/2480	26°08.54' N	96°51.13' W	40	5.8	166°	to WP37
0630	10/2775	26°07.06' N	96°50.86' W	39	5.8	167°	rolling alot (Furno depth having probs)
0645	11/3075	26°05.5' N	96°50.60' W	39	6.2	168°	gauges
0700	12/3372	26°04.0' N	96°50.4' W	39(?)	6.2	162°	
0703	13/3450	26°03.7' N	96°50.3' W				
0705	0/0	26°03.16' N	96°50.16' W	38	6.7	273°	sol 16C @ 37
0715	01/200	26°03.8' N	96°51.6' W	36	6.2	272°	sol 23A to WP38 gauges
0730	02/500	26°04.0' N	96°53.3' W	34	6.2	276°	gauges



Line name: Rio95-23A, 22A, 21A, 21B

Descr: Rio95

Date: 09/06/95

Energy: J/PSI

Firing Rate: 35

Geophones: 171 stream

Tape #: \_\_\_\_\_

Filter: \_\_\_\_\_

Source: 15H<sub>2</sub>O ci

Elics  
EPC  
no gulfon

p 25

coast ← current

Time	SP/Fix	LAT.	LONG.	WD	Ship spd/dir	Nav. system	Notes
0736	03/1645	26°04.1' N	96°54.0' W	33	6.1	275°	
0745	04/800	26°04.2' N	96°55.0' W	32	6.6	263°	Cont. R23A (a) WP38 to WP39
0800	05/1100	26°04.15' N	96°56.91' W	30	6.0	262°	
0815	06/1400	26°04.0' N	96°58.7' W	27	7.2	260°	
0830	07/1700	26°04.0' N	97°00.6' W	24	6.7	261°	to WP39 gauges ✓
0845	08/2000	26°03.97' N	97°02.48' W	22	6.5	262°	
0900	09/2300	26°03.9' N	97°04.2' W	20	6.2	259°	? Elics think it is on Fix 11! WP39 ~ 2nm
0904	10/2435	26°04.0' N	97°04.7' W	19	6.4	351°	
0915	01/185	26°05.1' N	97°04.6' W	19	6.6	355°	sol 23A / sol 22A @ WP39, head to WP40
0930	02/480	26°06.59' N	97°04.75' W	19	6.5	353°	in the troughs gauges Elics - down 480ms
0943	03/0	26°07.72' N	97°04.77' W	17	5.75	333°	41nm to WP48 EPC - down no delay
1000	04/330	26°07.8' N	97°03.3' W	20	5.6	090°	sol 22A / sol 21A WP40, head to WP41 Elics - trace 820ms
1015	05/1635	26°07.87' N	97°01.68' W	22	5.75	080°	(lost current) gauges ✓
1030	06/1937	26°08.04' N	97°00.14' W	25	5.5	083°	
1045	07/1237	26°08.09' N	96°58.58' W	27	5.75	088°	Elics skipped to 4'
1100	08/1534	26°08.12' N	96°56.95' W	30	5.5	083°	taking fix# from computer
1115	09/1830	26°08.19' N	96°55.41' W	32	6.0	083°	gauges ✓
1130	10/2132	26°08.21' N	96°53.70' W	36	6.0	080°	
1145	11/2433	26°08.29' N	96°51.96' W	39	5.0	088°	gauges ✓
1200	12/2740	26°08.37' N	96°50.37' W	39	6.0	083°	heading to WP41 getting light
1215	13/3030	26°08.33' N	96°48.86' W	40	4.8	078°	Elics skipped to bu 11
1230	14/3330	26°08.29' N	96°47.25' W	41	5.75	081°	new watch BSE
1245	15/3630	26°08.35' N	96°45.63' W	42	6.5	084°	
1300	16/3930	26°08.40' N	96°44.06' W	44	6.5	081°	
1315	17/4230	26°08.52' N	96°42.47' W	45	5.5	083°	gauges ✓
1330	18/4530	26°08.57' N	96°40.86' W	46	6.5	081°	
1345	19/4830	26°08.35' N	96°39.21' W	48	5.5	085°	
1400	20/1265	26°08.40' N	96°37.71' W	48	5.3	081°	sol 21A / sol 21B
1415	21/5105	26°08.4' N	96°36.1' W	48	6.0	089°	gauges ✓
1430	22/8105	26°08.3' N	96°34.6' W	49	6.5	086°	
1445	23/1165	26°08.3' N	96°33.0' W	50	6.0	090°	
1500	24/1480	26°08.2' N	96°31.4' W	59	6.5	101°	
1515	25/1765	26°08.2' N	96°29.9' W	60	6.5	085°	(a) WP41 gauges ✓
1530	26/2005	26°09.2' N	96°28.2' W	63	6.0	083°	
1545	27/2305	26°08.3' N	96°26.5' W	68	5.5	085°	EPC stopped printing time - turned off 3 on
1600	28/2605	26°08.29' N	96°24.94' W	74	6.3	099°	
1615	29/2905	26°08.2' N	96°23.3' W	85	5.5	084°	still not getting times on EPC gauges ✓
1630	30/3205	26°08.3' N	96°21.8' W	100	5.0	081°	data looking poor → slowed down EPC delay = 100 gauges ✓



Elies  
EPC  
no Gulton

2330 new line

Line name: <u>R109521B, C, 20A, 19A, 19B</u>	Energy: <u>J/PSI</u>	Tape #: <u></u>
Descr: <u>R1095</u>	Firing Rate: <u>3 sec</u>	Filter: <u></u>
Date: <u>09/06/95 - 9/07/95 (gmt)</u>	Geophones: <u>ITI streamer</u>	Source: <u>15 Hz ci</u>

Time	SP/Fix	LAT.	LONG.	WD(m)	Ship spd/dir	Nav. system	Notes
1645	12/3575	26°08.3' N	96°20.3' W	184	6.0 (KTS)	083°	EPC delay = 200
1700	1/265	26°08.4' N	96°18.9' W	270	5.5	095°	sol 21B/sol 21C record length = 102.4
1836	1/260	26°08.4' N	96°18.7' W	272	6.5	092.1°	sol 21C stopped to fix safety line
1845	2/425	26°09.4' N	96°18.5' W	269	6.5	002°	sol 20A @ WP42
1900	3/725	26°11.2' N	96°18.2' W	268	6.5	001°	gauges
1915	4/1030	26°12.9' N	96°18.0' W	213?	6.7	003°	
1930	5/1325	26°14.1' N	96°17.7' W	173?	6.5	002°	
1931	0/0	26°14.7' N	96°17.9' W	164?	5.9	262°	sol 20A @ WP43
1945	1/285	26°14.7' N	96°19.4' W	174	5.8	261°	sol 19A recording
2000	2/385	26°14.6' N	96°21.2' W	102?	6.5	262°	gauges ✓
2015	3/885	26°14.5' N	96°23.0' W	80?	6.5	261°	EPC delay = 100
2030	4/1185	26°14.6' N	96°24.76' W	73?	6.4	252°	EPC delay = 0
2045	5/1485	26°14.4' N	96°26.5' W	62?	6.0	265°	gauges ✓
2100	6/1790	26°14.3' N	96°28.2' W	63	6.6	262°	
2115	7/2090	26°14.3' N	96°30.07' W	63	6.5	262°	new watch LaB
2130	9/2390	26°14.25' N	96°31.88' W	58	6.5	262°	Elies shipped to 09
2145	10/2700	26°14.16' N	96°33.75' W	54	6.0	263°	
2200	11/2995	26°14.09' N	96°35.52' W	49	6.25	262°	gauges ✓
2215	12/3295	26°14.02' N	96°37.31' W	48	6.0	263°	
2230	13/3590	26°13.99' N	96°39.04' W	46	6.5	263°	chilled check
2245	14/3890	26°13.92' N	96°40.83' W	46	6.75	260°	gauges ✓
2300	15/4190	26°13.93' N	96°42.63' W	44	7.0	263°	
2315	16/4493	26°13.82' N	96°44.51' W	43	6.9	263°	
2330	17/4790	26°13.72' N	96°46.35' W	41	6.25	261°	EPC lost time stamp - reboot
2345	0/0	26°13.63' N	96°48.14' W	40	7.0	261°	
0000	01/290	26°13.57' N	96°49.97' W	39	6.5	263°	sol 19A/sol 19B
0015	02/585	26°13.51' N	96°51.74' W	38	6.5	261°	480ms
0030	03/990	26°13.40' N	96°53.108' W	36	6.5	265°	gauges slowing closer to 6.5K
0045	04/1185	26°13.39' N	96°55.46' W	34	6.25	266°	new watch RTE
0100	05/1490	26°13.38' N	96°57.30' W	29	6.25	267°	
0115	06/1790	26°13.45' N	96°59.11' W	26	6.25	269°	gauges ✓
0130	07/2090	26°13.5' N	97°00.8' W	26	6.5	272°	
0133	08/2140	26°13.6' N	97°01.1' W	20	6.5	259°	
0134	0/0	26°13.8' N	97°01.1' W	19	5.0	064°	sol 19B
0145	1/235	26°14.0' N	97°00.3' W	27	5.5	065°	sol 17A
0200	2/535	26°14.56' N	96°58.95' W	27	5.5	065°	changed EPC film reel
0215	3/835	26°14.9' N	96°57.5' W	28	5.5	066°	
0219	4/905	26°15.0' N	96°57.1' W	29	5.5	064°	@ WP 45



EPC  
Elicw

p27

Line name: <u>RIO 95-17A, 17B, 17C, 24A</u>	Energy: <u>J/PSI</u>	Tape #: <u></u>
Descr: <u>RIO 95</u>	Firing Rate: <u>3 sec</u>	Filter: <u></u>
Date: <u>9-7-95 (gmt)</u>	Geophones: <u>ITI streamer</u>	Source: <u>15 Hz ci</u>

Time	SP/Fix	LAT.	LONG.	WD(m)	Ship spd/dir	Nav. system	Notes
0230	5/1120	26° 15.4' N	96° 56.0' W	33	5.5 (kts)	064°	
0245	6/1425	26° 15.9' N	96° 54.5' W	36	6.0	065°	
0300	7/1725	26° 16.5' N	96° 53.0' W	37	6.0	064°	gauges ✓ cont. 17A (? trace = 480)
0315	8/2025	26° 17.04' N	96° 51.53' W	38	5.5	060°	
0330	9/2325	26° 17.4' N	96° 49.9' W	39	6.0	065°	gauges ✓
0345	10/2625	26° 17.9' N	96° 48.3' W	40	6.5	065°	heading to WP46
0400	11/2925	26° 18.5' N	96° 46.7' W	41	6.0	061°	gauges ✓
0415	12/3243	26° 19.1' N	96° 45.1' W	42	6.5	065°	
0430	13/3535	26° 19.6' N	96° 43.6' W	43	6.5	065°	now watch LAB
0432	0/0	26° 19.7' N	96° 43.4' W	42	—	—	sol 17A
0445	01/290	26° 20.0' N	96° 42.0' W	44	6.5	065°	sol 17B no EPC delay - trace 1024ms
0500	02/567	26° 20.5' N	96° 40.5' W	46	5.5	066°	
0515	03/820	26° 21.0' N	96° 39.0' W	47	6.5	065°	
0530	04/1170	26° 21.4' N	96° 37.5' W	47	5.9	063°	
0545	05/1470	26° 22.0' N	96° 36.1' W	51	5.1	065°	elics skip
0600	06/1770	26° 22.48' N	96° 34.56' W	54	5.6	065°	rolling seas ⇒ streamer noise?
0615	07/2077	26° 22.9' N	96° 33.0' W	57	5.7	068°	avoiding shrimp boat
0630	08/2380	26° 23.3' N	96° 31.5' W	61	6.4	065°	
0644	09/2650	26° 23.87' N	96° 30.02' W	68	—	—	
0800	—	26° 24.08' N	96° 29.99' W	—	—	—	slow to change out gun bearing sol 17B
							elics backed up! (chk set + 3)
							note* GPS time is slower than logbook time by about 14min:20s. The log book's EPC time stamp are synched, but the GPS feed into the Elic is different!
0846							heading back to location @ sol 17B
0856	0/0	26° 24.0' N	96° 29.9' W	68		065°	sol 17C trace 1024ms, 0 delay EPC (3m, data gap)
0900	01/85	26° 24.15' N	96° 29.57' W	70	6.0	066°	0ms delay EPC
0915	02/385	26° 24.5' N	96° 27.9' W	73	5.8	063°	
0930	03/635	26° 25.04' N	96° 26.44' W	77	6.5	064°	
0945	04/985	26° 25.4' N	96° 24.9' W	81	5.5	065°	0940 100ms delay EPC
1000	05/1290	26° 25.9' N	96° 23.3' W	91	5.75	065°	
1015	06/1590	26° 26.42' N	96° 21.82' W	111	5.75	065°	elics skipping - data looks washed out - H2O diff
1030	07/1892	26° 26.86' N	96° 20.38' W	134	5.25	063°	gauges - played down, looks better
1032	08/1983	26° 26.92' N	96° 20.22' W	140	5.25	072°	1/4 nm from WP 46
1045	09/245	26° 27.8' N	96° 20.7' W	133	5.5	312°	sol 17C sol 24A trace 1024, delay 100ms
1047	02/295	26° 27.90' N	96° 20.90' W	131	5.5	310°	(in 21000 18A change)
1100	03/545	26° 29.15' N	96° 21.27' W	132	5.5	347°	@ WP 47, to WP 48 EPC - no time, reboot
1102	04/595	26° 29.33' N	96° 21.29' W	135	5.5	350°	@ WP 48, to WP 49

gauges ✓  
(has climbed to 2625)



Elies  
EPC  
no Gulton

p. 28

Line name: <u>R109524A, 24B, 15X</u>	Energy: <u>J/PSI</u>	Tape #: <u></u>
Descr: <u>R1095 MUD 95</u>	Firing Rate: <u>35</u>	Filter: <u></u>
Date: <u>9-7-95 (gmt)</u>	Geophones: <u>177 steam</u>	Source: <u>15 H<sub>2</sub>O ci</u>

Time	SP/Fix	LAT.	LONG.	WD	Ship spd/dir	Nav. system	Notes
1115	05/835	26° 30.51' N	96° 21.65' W	137	5.75	340°	cont. 24A
1130	06/1135	26° 31.91' N	96° 22.20' W	137	5.5	340°	
1141	07/1350	26° 32.88' N	96° 22.32' W	147	5.5	004°	gun 2000 no 2080 - d'it
1145	08/1435	26° 33.30' N	96° 22.53' W	146	5.5	323°	@ WP 49, to WP 50 gauges
1200	09/1735	26° 34.58' N	96° 23.40' W	144	5.5	323°	
1215	10/2035	26° 35.83' N	96° 24.26' W	142	6.0	328°	lenm to WP 50
1230	11/2335	26° 37.07' N	96° 25.14' W	140	5.75	325°	new watch BJE
1245	12/2635	26° 38.37' N	96° 26.07' W	140	6.0	322°	gauges
1300	13/2935	26° 39.59' N	96° 26.68' W	144	6.0	341°	
1315	14/3235	26° 41.04' N	96° 27.41' W	144	6.0	331°	@ WP 50 gauges
1330	16/3535	26° 42.45' N	96° 28.05' W	146	6.0	331°	Elies jumped a fix
1345	17/3835	26° 43.86' N	96° 28.71' W	145	5.75	331°	
1401	18/4150	26° 45.21' N	96° 29.41' W	142	5.5	356°	@ WP 51 gauges
1415	19/4445	26° 46.84' N	96° 29.77' W	144	6.0	346°	
1430	20/4740	26° 48.21' N	96° 30.11' W	144	6.5	344°	
1445	21/5040	26° 49.71' N	96° 30.31' W	142	5.5	345°	gauges
1500	22/5340	26° 51.21' N	96° 30.51' W	139	5.4	351°	
1503	23/5400	26° 51.51' N	96° 30.61' W	139	6.3	350°	
1515	24/5715	26° 52.61' N	96° 30.41' W	141	5.9	000.6°	@ WP 52 col 24A / sol 24B gauges
1530	25/515	26° 54.11' N	96° 30.21' W	142	5.5	358°	
1545	3/810	26° 55.51' N	96° 30.01' W	142	5.3	354°	
1600	4/1115	26° 57.21' N	96° 29.91' W	142	6.5	009°	possible gas deep
1615	5/1420	26° 58.71' N	96° 29.71' W	141	6.6	005.1°	on Furuno depth reader?
1626	6/1660	26° 59.91' N	96° 29.61' W	138	6.3	354°	@ WP 53 gauges
1645	7/2035	27° 01.71' N	96° 28.81' W	142	5.7	017°	
1700	8/2330	27° 03.01' N	96° 28.21' W	144	6.4	017°	
1715	9/2620	27° 04.41' N	96° 27.51' W	147	6.3	019°	gauges
1722	10/2755	27° 05.04' N	96° 27.31' W	148	6.0	023°	
1724	0/0	27° 05.31' N	96° 27.31' W	148	5.0	280°	@ WP 216 col R1095-24B sol MUD 95-15X
1745	1/445	27° 05.81' N	96° 29.61' W	123	6.5	278°	
1800	2/745	27° 06.30' N	96° 31.40' W	110	6.4	279°	gauges
1815	3/1055	27° 06.61' N	96° 33.11' W	100	6.4	275°	
1830	4/1350	27° 07.085' N	96° 34.86' W	96	6.0	277°	EPC delay = 0 gauges
1845	5/1640	27° 07.41' N	96° 36.51' W	90	6.2	280°	
1900	6/1945	27° 07.83' N	96° 38.33' W	86	6.4	270°	gauges
1915	7/2250	27° 08.11' N	96° 40.01' W	81	6.3	282°	
1930	8/2550	27° 08.51' N	96° 41.71' W	76	5.9	276°	gauges
1945	9/2845	27° 08.91' N	96° 43.31' W	72	6.1	278°	



Line name: <u>MUD95-15X 42A,B,C</u>	Energy: <u>J/PSI</u>	Tape #: <u></u>
Descr: <u>MUD 95</u>	Firing Rate: <u>3 sec</u>	Filter: <u></u>
Date: <u>09-7-95 (GMT) / 09/08/95</u>	Geophones: <u>ITI streamer</u>	Source: <u>15 H<sub>2</sub>O ci</u>

Elics  
EPC  
no filter

p. 29

Time	SP/Fix	LAT.	LONG.	WD(m)	Ship spd/dir	Nav. system	Notes
1953	10/3005	27° 09.0' N	96° 44.2' W	70	6.1 kts	2107°	
0600	—	28° 09.6' N	95° 50.1' W	34	5.5 kts	051°	col MUD95-15X EPC no delay
0614	—	28° 10.2' N	95° 49.0' W	34	5.5 kts	064°	going to WP 37
0617	1/0540	28° 10.1' N	95° 49.1' W	34	7 kts	245°	starting turn
0630	2/0770	28° 09.8' N	95° 50.8' W	34	6.5 kts	246°	heading to WP 38 sol 42A
0645	3/1670	28° 09.2' N	95° 52.6' W	34	6.5 kts	246°	2500 gun 2400 hrs
0700	04/1370	28° 08.7' N	95° 54.4' W	34	6.8 kts	243°	2600 gun 2620 hrs
0715	05/11670	28° 08.1' N	95° 56.3' W	34	7.2 kts	244°	
0730	06/1970	28° 07.56' N	95° 58.17' W	34	6.5 kts	245°	Mark checked 26
0745	07/2265	28° 07.0' N	95° 59.9' W	34	6.40 kts	240°	@ WP 38 heading to WP 39
0800	08/2565	28° 06.3' N	96° 01.6' W	34	6.5 kts	242°	2600 gun 2600 hrs
0815	09/2870	28° 05.6' N	96° 03.4' W	34	6.9 kts	246°	
0830	10/3175	28° 05.02' N	96° 05.23' W	34	7.2	240°	Mark checked gauges
0845	11/3475	28° 04.2' N	96° 06.9' W	35	6.8	241°	1100 2700 gun 2600
0900	12/3775	28° 03.6' N	96° 08.16' W	35	6.4	241°	
0915	13/4080	28° 02.9' N	96° 10.3' W	35	6.4	240°	
0930	14/4365	28° 02.3' N	96° 12.0' W	35	6.4	239°	steady
0945	15/4670	28° 01.5' N	96° 13.7' W	35	6.5	230°	
1000	16/4970	28° 00.72' N	96° 15.0' W	35	7.0	250°	steady
1015	17/5276	28° 00.26' N	96° 17.08' W	35	7.0	243°	avoiding rig
1022	010	28° 00.00' N	96° 17.78' W	35	7.0	245°	
1030	01/165	27° 59.52' N	96° 18.78' W	35	6.0	233°	@ WP 39, to WP 40 col 42A/ sol 42B
1045	02/1450	27° 58.71' N	96° 20.38' W	35	6.25	232°	
1100	03/0765	27° 57.79' N	96° 22.06' W	35	6.25	230°	currents slowing us @ max RPM
1115	04/1065	27° 56.74' N	96° 23.67' W	34	7.5	232°	steady
1130	05/1365	27° 56.02' N	96° 25.29' W	35	6.5	230°	slowing back to 6.5-7.0 kts
1142	06/1625	27° 55.35' N	96° 26.54' W	34	7.0	220°	steady
1145	07/1670	27° 55.17' N	96° 26.85' W	34	6.5	225°	@ WP 40, to WP 41
1200	08/1950	27° 54.13' N	96° 28.22' W	35	7.3	225°	2000 gun 2700 hrs
1215	09/2250	27° 53.08' N	96° 29.66' W	35	7.0	225°	
1230	10/2545	27° 52.02' N	96° 31.12' W	35	6.75	221°	gauges
1245	11/2850	27° 51.0' N	96° 32.51' W	35	6.5	225°	
1300	12/3150	27° 49.9' N	96° 34.0' W	35	6.8	228°	data on Elics got very dark all of a sudden
1309	13/1175	27° 49.2' N	96° 35.0' W	35	7.0	224°	but EPC OK, so took AGC off of Elics
1315	14/2175	27° 48.8' N	96° 35.5' W	35	7.2	222°	it helped a bit, but not completely
1330	3/575	27° 47.7' N	96° 36.9' W	35	6.3	222°	@ WP 41
1345	4/880	27° 46.6' N	96° 38.2' W	35	6.5	216°	lots o' rigs
1400	5/1175	27° 45.3' N	96° 39.5' W	35	6.6	216°	gauges







Beginning wk 4

Elics

EPC

p 31

logbook time synched w/ GPS time,  
was only a couple minutes off

Line name: <u>Rio 95-26A, 25A, B, C</u>	Energy: <u>J/PSI</u>	Tape #: _____
Descr: <u>Rio 95</u>	Firing Rate: <u>35</u>	Filter: _____
Date: <u>09/12/95</u>	Geophones: <u>Mastcam</u>	Source: <u>15H20 ci</u>

Time	SP/Fix	LAT.	LONG.	WD	Ship spd/dir	Nav. system	Notes
1331	0/0	27°00.0'	96°51.0	59	4.2	174	
1345	1/290	26°58.8'	96°51.0	60	5.3	176	sol Rio 95-26A at WP 54 Elics - base 480ms
1400	2/585	26°57.5'	96°50.98'	59	5.8	174	hdg to WP 55 gauges ✓ EPC - no delay
1415	3/885	26°56.0'	96°50.9	59	6.0	178	
1430	4/1180	26°54.5	96°50.9	58	5.8	176	2-3 ft seas - in trough gauges ✓ EPC no delay
1440	5/1385	26°53.16	96°51.0	58	5.7	165	at 1430 changed baseline from 1 to 3
1445	6/1492	26°53.1	96°50.8	58	6.2	161	WP 55
1500	7/1790	26°51.6	96°50.3	59	5.5	162	heading to WP 56 gauges ✓
1515	9/2090	26°50.2	96°49.9	59	6.3	170	
1530	10/2395	26°48.7	96°49.5	59	6.2	162	
1545	11/2690	26°47.2	96°49.2	59	6.1	165	gauges ✓
1554	12/2888	26°46.3	96°49.0	59	6.5	173	
1600	13/2992	26°45.7	96°48.9	58	6.4	149	WP 56 hdg to WP 57 3-4 ft swells
1615	14/3297	26°44.2	96°48.3	58	6.2	149	gauges ✓ Res pressure = 2680
1630	15/3588	26°42.7	96°47.5	59	6.5	145	
1645	16/3890	26°41.3	96°46.8	59	6.1	148	
1700	17/4190	26°39.7	96°46.0	59	6.5	150	gauges ✓ Res pressure = 2680
1715	18/4492	26°38.1	96°45.2	59	6.5	145	
1730	19/4792	26°36.6	96°44.4	59	6.5	149	g ✓ Res pres 2690
1734		26°36.5	96°44.0	59	5.7	064	WP 57 SOL R1095-25B hdg to 58
1737	0/0	26°36.7	96°43.7	60	6.7	059	turn completed
1745	1/182	<del>36</del> 26°37.0	96°42.9	62	5.6	057	ELICS froze - rebooted SOL R25B
1800	2/485	26°37.6	96°41.4	66	5.8	060	
1815	3/778	26°38.3	96°40.0	71	6.0	059	gauges ✓
1830	4/1082	26°39.0	96°38.4	77	56.0	060	3-5 ft swells
1845	5/1384	26°39.6	96°37.0	87	6.5	060	< 3 ft swells gauges ✓
1900	6/1681	26°40.32	96°35.4	90	5.6	060	added 100ms delay to EPC at 1836
1915	7/1980	26°40.7	96°34.1	96	4.5	061	slowing down to 5.5 to improve data g. ✓
1930	8/2282	26°41.3	96°32.7	101	5.7	060	
1945	9/2582	26°41.9	96°31.3	110	6.0	062	gauges ✓
2000	10/2882	26°42.5	96°29.8	122	5.6	058	
2004							gauges ✓ sol 25B
2030	01/165	26°42.5'	96°29.7'	124			loss of power - elics died returning to 2023
2045	02/440	26°43.04'	96°28.54'	141	4.7	059	began recording @ 2023 sol 25C
2100	03/745	26°43.6'	96°27.1'	177	6.0	060	@ position where lost power 2023-2700
2115	04/1045	26°44.2'	96°25.16'	222	4.8	063	2110 - epc delay 200ms
2130	05/1350	26°44.8'	96°24.2'	286	5.9	058	gun 2650 ms 2700



EPC  
Elics

c = calculated from seismic p32

Line name: <u>Rio 95-250, 27A, 18C, 18D</u>	Energy: <u>J/PSI</u>	Tape #: <u></u>
Descr: <u>Rio 95</u>	Firing Rate: <u>3s</u>	Filter: <u></u>
Date: <u>09/12/95 gnd - 09/13/95 gnd</u>	Geophones: <u>MTstreamer</u>	Source: <u>15 H<sub>2</sub>O ci</u>

Time	SP/Fix	LAT.	LONG.	WD <sup>(m)</sup>	Ship spd/dir	Nav. system	Notes
2136	06/1487	26°45.4' N	96°23.6' W	310	6.1 K5	059°	
2144	01/145	26°45.1' N	96°23.6' W	310 ?	5.25	231°	sol 25C / sol 27A turning @ WP58
2200	02/456	26°44.1' N	96°24.8' W	252	5.7	221°	on line to WP59 gun 2600 neo 2720
2215	03/750	26°43.1' N	96°26.0' W	200	5.5	217°	
2230	04/1020	26°42.1' N	96°27.3' W	156	5.9	227°	2226 changed EPC delay to 100ms gun 2600 neo 2720
2245	05/1365	26°41.2' N	96°28.5' W	130	5.6	221°	
2300	06/1650	26°40.2' N	96°29.7' W	114	5.9	225°	steady
2315	07/1960	26°39.2' N	96°30.9' W	105	5.5	225°	
2330	08/2250	26°38.3' N	96°32.1' W	96	5.7	221°	gun 2600 neo 2720
2343	09/2525	26°37.4' N	96°33.2' W	91	5.5	226°	
2353	01/195	26°36.1' N	96°32.8' W	91	5.45	120°	@ 59 to WP60 sol 27A / sol 18C trace = 800ms
0000	02/330	26°36.19' N	96°32.39' W	98 c	5.13	137°	@ WP60 to WP61
0015	03/648	26°35.0' N	96°31.5' W	92	5.9	139°	steady
0029	04/914	26°34.0' N	96°30.6' W	92	5.7	126°	stylus on Furus broke @ WP61, to WP62
0045	05/1229	26°33.0' N	96°29.6' W	92	5.5	130°	gauges ✓
0100	06/1530	26°32.0' N	96°28.6' W	89	5.5	132°	
0115	07/1830	26°31.0' N	96°27.6' W	91	5.5	132°	gauges ✓
0130	08/2130	26°30.0' N	96°26.7' W	92	5.3	125°	
0145	09/2432	26°29.09' N	96°25.7' W	98 c	5.4	123°	
0153	10/2595	26°28.6' N	96°25.0' W	98 c	5.2	108°	WP62 to 63 hdg changed suddenly
0200	11/2729	26°28.2' N	96°24.6' W	98 c	5.9	141°	gauges ✓
0215	12/3029	26°27.08' N	96°23.83' W	98 c	5.2	140°	
0230	13/333	26°25.9' N	96°23.0' W	99 c	5.5	145°	4-5 ft seas
0246	14/3642	26°24.5' N	96°22.3' W	98 c	5.4	160°	WP63 hdg to 64 gauges ✓
0300	15/3929	26°23.5' N	96°21.8' W	99 c	5.8	155°	
0315	16/4226	26°22.1' N	96°21.4' W	98 c	5.5	145°	WP64 hdg to 65
0330	17/4531	26°20.9' N	96°21.3' W	94 c	5.0	155°	gauges ✓
0345	18/4830	26°19.6' N	96°21.1' W	96 c	5.5	174°	
0400	19/5129	26°18.3' N	96°21.0' W	99 c	5.0	172°	new watch LAB - heavy seas
0415	20/5430	26°16.9' N	96°20.9' W	101 c	5.5	179°	gauges ✓ Deboosted APC - no GPS string
0423	21/5600	26°16.2' N	96°21.0' W	101 c	5.7	174°	
0430	21/125	26°15.6' N	96°21.0' W	101 c	5.0	185°	sol 18C / sol 18D, length = 800ms, apc delay = 100ms
0445	02/450	26°14.2' N	96°21.3' W	?	5.2	189°	gauges ✓ @ WP65
0500	03/740	26°12.8' N	96°21.6' W	105 c	5.5	189°	5' seas - ughhh!!
0510	04/940	26°12.0' N	96°22.0' W		5.2	215°	
0515	05/1030	26°11.5' N	96°22.0' W	101 c	5.0	180°	@ WP66, heading to WP67
0530	06/1325	26°10.27' N	96°22.20' W	101 c	5.7	183°	
0545	07/1625	26°09.91' N	96°22.33' W				

jethson - must get to shore!!







