

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: 15³in

Elics

air 2500 psi

l = local time

Line name: <u>Mud 95-1A</u>	Energy: <u>J/PSI</u>	Tape #: <u>1</u>
Descr: <u>MUD 95 15</u>	Firing Rate: <u>3s</u>	Filter: <u></u>
Date: <u>08/19/95</u>	Geophones: <u>ITI streamer</u>	Source: <u>15 H₂O ci gun</u>

Time	SP/Fix	LAT.	LONG.	Furuno depth WD (m)	Ship spd/dir	Nav. system	Notes
0345 l		28°43.260'N	95°34.314'W				
0445 l		28°38.440'N	095°40.606'W		8.1 kts	ELics = trimble	transversing to WP 1
0500 l		28°36.058'N	095°43.588'W			EPC = Furuno	" "
0600 l		28°29.611'N	095°50.851'W		10 kts		" "
0706 l		28°26.026'N	095°56.790'W		2.7 kts		" "
GMT							
1245	1	28°24.45'N	95°58.55'W		6.0 kts		
1300	2	28°23.079'N	95°58.011'W		5.5 kts		SOL MUD 95-1A
1330	3	28°20.113'N	95°50.60'W		6.6 kts		"
1345	4	28°18.976'N	95°55.945'W		6.65 kts		
1400	5	28°16.979'N	95°55.315'W		6.7		
1415	6	28°15.4'N	95°54.7'W		6.5		
1430	7	28°13.9'N	95°54.0'W		6.8		
1445	8	28°12.5'N	95°53.9'W		6.6		
1500	9	28°10.9'N	95°52.8'W		6.3 kts		
1515	10	28°09.4'N	95°52.1'W		6.5 kts		
1530	11 (2)	28°07.8'N	95°51.4'W		6.25 kts		
1545	13	28°06.2'N	95°50.8'W		6.3 kts		
1600	14	28°04.7'N	95°50.2'W		7.9 kts		
1615	15	28°03.1'N	95°49.5'W		7.0 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		6.8 kts		EOL MUD 95-1A
1700	2	27°58.3'N	95°48.4'W		7.0 kts		SOL MUD 95-1B
1715	3	27°56.7'N	95°46.7'W		7.1 kts		
1730	4	27°55.2'N	95°45.96'W		6.5 kts		
1745	5	27°53.6'N	95°45.2'W		6.6 kts		
1800	6	27°52.0'N	95°44.35'W	60m	6.2 kts	152°	
1815	7	27°50.4	95°43.9	62m	6.27 kts	155°	
1830	8	27°48.8	95°43.3	64m	6.1 kts	156°	
1845	9	27°47.3'N	95°42.6'W	69m	6.25 kts	154°	
1900	10	27°45.773'N	095°41.975'W	74m	6.9 kts	158°	
1915	11	27°44.319'N	095°41.399	79m	6.5 kts	155°	
1927							New watch LAB
1930	12	27°42.844	095°40.858	144m	6.5 kts	161°	heading to modern shelf break
1939		27°41.824	95°40.99	153m	6.0	156	Increase ELics gain to 2, deeper H ₂ O, less signal
1954		27°40.720	95°40.069	153m	4.0		add 100ms delay to EPC

new watch BIE
gain change EPC 92
INT AGC 1
some sort of data watch hold ~ 1420
LPI chang
200 → 100

EPC - gain 90 dB
filter 150-1500
scale 10, scan 500s
key rate 3.0s
ELics - ext. gain 60 dB
int. AGC gain 24 dB
no ext. filter

EPC - gain = 92 dB
filter 150-1500
scale 10, scan 500s
ELics - ext. gain = 60 dB
int. AGC gain = 1
no ext. filter
LPI 100

New watch LAB
heading to modern shelf break
Increase ELics gain to 2, deeper H₂O, less signal
add 100ms delay to EPC
EOL MUD 95-1B SOL 95-1C trace length
EOL 95-1C
→ H₂O getting too deep; playing w/ gains

? too shallow

Line name: MUD95-2A Energy: J/PSI Tape #:
 Descr: MUD95 Firing Rate: 3s Filter:
 Date: 08/20 - 08/21 Geophones: IT/Streamer Source: 15 H₂O ci

gun-2600psi

C = calculated from
 Red-H₂O interface
 F = furuno

p. 2

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 64dB P trace length 800ms
2015	02	27°40.312	095°42.058	?	6.3 kts	267°	SOL MUD95-2A WPA Elics-AGC on, gain 1
							AGC difficulties w/ the Elics, the H ₂ O column is very noisy
2020				246 C			GPC- ext gain 84dB + 10dB int delay 250ms, scan rate .5s
2030	03	27°40.050	095°43.510		4.8 kts	256°	very noisy 3s LPI=100
2045	04/960	27°39.800	095°45.009	169 C	5.0 kts	256°	slow to 5.5 kts filter 150-1500
2100	05/1325	27°39.614	095°46.414	153 F	5.0 kts	256°	GPC delay changed from 250ms → 100ms
2115	06/1540	27°39.382	095°48.016	149 F	5.2 kts	260°	
2130	07/1835	27°39.029	095°49.473	147 F	6.0 kts	260°	increase speed to 6.0 kts
2145	08/2032	27°38.725	095°51.180	146 F	6.0 kts	252°	
2153	09/2232	27°38.030	095°52.079	141 F	4.9 kts	259°	
2200	10/139	27°39.282	095°52.419	138 F	6.7 kts	332°	red 2550 gun 2600
2209							col MUD2A / sol MUD-953A WP3
2215	02/414	27°40.615	095°52.996	112 F	6.1 kts	336°	elics- ext gain 64dB 2000kts
2230	03/715	27°42.044	095°53.656	86 F	6.5 kts	333°	int. AGC gain=1 800ms record
2245	04/1010	27°42.429	095°54.276	86 F	5.5 kts	320°	GPC- ext gain 84dB + int. 10dB
2300	05/1312	27°44.372	095°54.940	74 F	5.8 kts	327°	LPI=100, filter=150-1500
2315	06/1610	27°46.135	095°55.580	65 F	5.4 kts	333°	delay=100, keep=3s, scan=.5s
2330	07/1910	27°47.421	095°56.154	61 F	4.7 kts	330°	
2345	08/2215	27°48.588	095°56.294	60 F	5.0 kts	324°	red 2505 gun 2550
2355	09/2515	27°49.750	095°57.206	59 F	5.5 kts	331°	
0006	10/2845	27°51.179	095°57.903	58 F	5.6 kts	341°	
0020	11/3099	27°52.366	095°58.483	57 F	7.8 kts	323°	dinnertime!!
0045	12/3432	27°53.858	095°59.313	55 F	5.4 kts	333°	putting the gun out a bit further - 1 mile from past WP4 heading for WP*5 WP4
0100	13/3710	27°55.189	096°00.638	53 F	6.0 kts	318°	
0115	14/4010	27°56.583	096°02.792	50 F	5.9 kts	324°	
0130	15/4345	28°58.11	096°01.7	47	6.3 kts	325°	
0145	16/4650	27°59.53' N	096°02.59' W	44	6.7 kts	332°	new watch BJE res 2500 gun 2500
0200	17/4920	28°00.8' N	096°03.3' W	42	7.0 kts	333°	
0201	01/0	28°01.0' N	096°03.4' W	42 F	7.0 kts	333°	EOL MUD95-3A
0215	02/280	28°02.32' N	096°04.11' W	39 F	6.0 kts	327°	SOL MUD 95-3B log file
0230	03/575	28°03.7' N	096°04.7' W	36 F	5.7 kts	322°	res 2500 gun 2500
0245	03/885	28°05.01' N	096°05.80' W	34	6.0 kts	313°	changes to above params;
0300	04/1185	28°05.8' N	096°07.2' W	32	6.0 kts	296°	lots of rings 180 ms record
0315	05/1485	28°06.6' N	096°08.3' W	30	6.0 kts	307°	ahead → OIL! delay res 2500 gun 2500 heading off course to chdgs rings (horizon is full of them)

gun 2500 psi

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Line name: <u>MUD 95-3B</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 H₂O ci</u>

Time	SP/Fix	LAT.	LONG.	Turnup WD (m)	Ship spd/dir	Nav. system	Notes
0330	06/1785	28° 07.9' N	096° 09.3' W	28	6.25 kts	333°	
0345	07/2085	28° 09.3' N	096° 09.9' W	26	5.8 kts	337°	still off course due to rig
0400	08/2385	28° 10.78' N	096° 10.51' W	24	6 kts	333°	res 2500 gun 2500
0415	09/2688	28° 12.21' N	096° 11.02' W	23	6.7 kts	334°	
0430	10/2990	28° 13.67' N	096° 11.68' W	22	5.9 kts	337°	long checked gauges
0445	11/3290	28° 15.11' N	096° 12.3' W	21	7.0 kts	330°	still dodging rigs
0500	12/3590	28° 16.5' N	096° 13.0' W	21	6.7 kts	330°	
0515	13/3890	28° 17.87' N	096° 13.72' W	20	6.0 kts	332°	getting close to turn, dodging a rig
0523	14/4050	28° 18.47' N	096° 14.04' W	19	6.0 kts	330°	to N as we turn SW
0525	01/00	28° 18.2' N	096° 14.4' W	19	5.5 kts	224°	EOL MUD 95-3B
0545	02/450	28° 17.32' N	096° 16.00' W	19	5.25 kts	227°	res 2550 gun 2550
0600	03/750	28° 16.48' N	096° 17.19' W	20	5.8 kts	223°	SOL MUD 95-4A w/plc
0615	04/1025	28° 15.58' N	096° 18.41' W	20	6.1 kts	220°	Flies. 3.0 sec firing
0630	05/1335	28° 14.63' N	096° 19.60' W	21	6.5 kts	220°	Rigs in the
0645	06/1640	28° 13.72' N	096° 21.06' W	21	5.9 kts	236°	way, still dodging
0700	07/1945	28° 12.84' N	096° 22.57' W	8	6.1 kts	224°	ext gain = 64 dB
0716	08/2285	28° 11.90' N	096° 24.0' W	21	6.7 kts	226°	agg = 1 2000 Hz
0730	09/2585	28° 11.171' N	096° 25.056' W	17	5.41 kts	223°	EPC gain = 94 dB
0745	10/2827	28° 10.200' N	96° 26.30' W	20	6.0 kts	226°	Filter = 150-1500
0800	11/3135	28° 09.4' N	096° 27.7' W	12 (?)	5.9 kts	226°	delay = 0
0815	12/3435	28° 08.5' N	96° 28.9' W	18	6.0 kts	226°	Don't watch LRB
0824	13/3673	28° 08.1' N	96° 29.6' W	19	5.9 kts	228°	
0832	01/100	28° 07.3' N	96° 29.7' W	19	5.6 kts	138°	* EPC plotter down from 0730-0830
0845	02/337	28° 06.3' N	96° 28.9' W	20	6.1 kts	138°	EOL MUD 95-4A (w/plc) / SOL MUD 5A
0850							Flies - same forms
0900	03/438	28° 05.065' N	96° 27.902' W	23	6.4 kts	135°	EPC - same, but LPI = 200
0915	04/930	28° 03.794' N	96° 26.848' W	24	6.7 kts	141°	change EPC LPI from 200 to 100
0930	05/1243	28° 02.416' N	96° 25.747' W	26	6.2 kts	138°	
0945	06/1545	28° 01.0' N	96° 24.71' W	28	6.4 kts	138°	interference
1000	07/1839	28° 00.052' N	96° 23.51' W	30	6.6 kts	095°	res 2600 gun 2595
1015	08/2145	27° 58.7' N	96° 22.6' W	32	6.3 kts	039°	
1030	09/2437	27° 57.4' N	96° 21.81' W	35	6.0 kts	136°	fast, heavy current
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° 50.81' N	96° 16.36' W	53	6.7 kts	145°	slowing down to 6.5 kts

Line name: <u>Mud 95-5A</u>	Energy: <u>J/PSI</u>	Tape #: _____
Descr: <u>Mud 95</u>	Firing Rate: <u>3s</u>	Filter: _____
Date: <u>08/21</u>	Geophones: <u>1T1streamer</u>	Source: <u>15H₂O ci</u>

Elics & EPC

p 4

Time	SP/Fix	LAT.	LONG.	WD _(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	5.7 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°12.168' W	69	5.7 kts	147°	end 95-5A / sol 95-5B EPC-same parms
1300	02/620	27°44.42' N	96°11.165' W	75	6.0 kts	150°	Elics-change trace length
1313	03/895	27°43.35' N	96°10.32' W	80	6.0 kts	144°	1 mile from WP#7 from 480-800ms
1330	04/1195	27°42.01' N	96°09.44' W	86	5.5 kts	154°	@ WP7 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	10/3080	27°34.15' N	96°04.12' W	133	5.8 kts	144°	pressure @ full amts.
1515	11/3325	27°32.60' N	96°03.14' W	147	6.0 kts	145°	Delay = 200 ms on EPC
1520	12/3440	27°32.53' N	96°03.70' W	149	6.0 kts	144°	end 95-5B
1521	01/00	27°32.53' N	96°03.70' W	149	6.0 kts	228°	sol 95-6A
1530	02/200	27°31.89' N	96°04.27' W	150	6.2 kts	220°	delay = 150 ms on EPC
1545	03/500	27°30.94' 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°	end 95-6A
1610	01/00	27°29.46' N	96°07.86' W	147	5.5 kts	314°	sol 95-7A heading to WP10
1615	02/120	27°30.05' N	96°08.18' W	145	6.0 kts	320°	
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 zero
1700	05/1620	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°	new current pushing speed faster
1730	07/1625	27°35.09' 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	73	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	64	6.0 kts	314°	
1915	14/3730	27°43.57' N	96°21.18' W	62	6.0 kts	311°	New watch - LAB
1930	15/4022	27°44.7' N	96°22.2' W	58	5.2 kts	313°	
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 #: <u></u>
Descr: <u>Mud 95</u>	Firing Rate: <u>3s</u>	Filter: <u></u>
Date: <u>08/21/95-08/22</u>	Geophones: <u>171 streamer</u>	Source: <u>1540 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	313°	eol Mud 95-7A
2030	01/272	27° 49.43 'N	96° 26.679 'W	44	5.5 kts	313°	SOL Mud 95-7B. ^{beautiful} ^{dimensional} ^{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	5.7 kts	311°	
2136	06/1620	27° 54.71 'N	96° 31.76 'W	29	6.7 kts	299°	WP#11
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° 57.7 '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°	eol 95-7B
2353	10/0				backing up		pulling gun to check security - good thing, we lost a net! heading back WP#11
007	0/0	27° 00.01 '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°	@ WP#11 SOL MUD 95-8A
030	2/490	27° 58.84 '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°	eating dinner; weird wave train
0115	5/1385	27° 55.21 'N	96° 46.4 'W	19	6.0 kts	223°	going through data; turned differential
0130	6/1690	27° 54.23 'N	96° 47.82 'W	19	5.7 kts	218°	GPS 8/1- tethered to help
0145	7/1990	27° 53.21 'N	96° 49.11 'W	19	5.5 kts	219°	still getting wave train on ELICS, but not on EPC
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°	
0229	10/2650	27° 51.04 'N	96° 51.97 'W	19	6.0 kts	223°	
0220	0/0	27° 50.8 'N	96° 51.8 'W	19	6.0 kts	125°	eol 8A
0230	1/285	27° 50.05 'N	96° 51.14 'W	20	6.5 kts	129°	SOL MUD 95-9A
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	122°	

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: 15 Hz 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	27	7.0 kts	125°	MUD 95-9A continued from pg. 5
0400	7/2015	27°43.82' N	96°42.82' W	32	6.9 kts	122°	
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°	
0601	0/0	27°35.21' N	96°31.43' W	62	6.5 kts	124°	EOI MUD 95-9A
0615	1/250	27°34.19' N	96°30.00' W	66	6.3 kts	124°	SOL MUD 95-9B
0630	2/550	27°33.17' N	96°28.61' W	66	6.2 kts	132°	above Hospital Rock, depth drops to 58 m. heading to WP#14 → made slight turn, so see Hospital Rock twice
0645	3/850	27°32.00' N	96°27.35' W	56	6.3 kts	124°	
0700	4/1150	27°30.9' N	96°25.9' W	82	5.8 kts	124°	
0704	5/1220	27°30.72' N	96°25.65' W	84	6.4 kts	124°	EOI MUD 95-9B / SOL MUD 95-9C ↳ Elics 800ms trace
0715	6/1220	27°28.86' N	96°24.7' W	88	7.9 kts	124°	
0730	8/1523	27°28.7' N	96°23.16' W	93	6.9 kts	124°	change EPC delay from 0 → 100ms res 2500 gun 2600
0745	8/1825	27°27.7' N	96°21.8' W	99	6.8 kts	124°	
0800	8/1915	27°26.7' N	96°20.4' W	106	6.5 kts	126°	res 2500 gun 2650
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°	@ WP14 turning to WP15
0845	13/2015	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°	EOI 9C SOL 10A (start was kts, should have begun @ 0854) nasty overlapping patterns? gain?? EOI 10A - SOL 11A
0900	14/2300	27°22.6' N	96°15.8' W	149	6.0 kts	219°	
0908	6/0	27°22.0' N	96°16.6' W	147	6.2 kts	214°	trying to get rid of pattern on Elics Graining (and check air gauges) - no luck GPC froze up again → restart change EPC delay from 100ms → 0
0915	01/1150	27°21.5' N	96°17.2' W	146	5.7 kts	220°	
0930	02/1480	27°20.3' N	96°18.5' W	144	5.5 kts	221°	
0942	0/0	27°19.7' N	96°19.4' W	143	7.1 kts	301°	
1000	01/345	27°20.8' N	96°21.1' W	126	6.8 kts	293°	
1015	02/650	27°21.7' N	96°22.8' W	?	7.2 kts	305°	
1030	03/950	27°22.24' N	96°24.4' W	104	6.9 kts	296°	
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: MUD95-11A-12A Energy: J/PSI Tape #:
 Desor: MUD95 Firing Rate: 3s Filter:
 Date: 08/22 Geophones: 1T1 streamer Source: 15 Hz ci

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 *reef
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 WP 16
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 WP 17
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 BLE
1345	16/4845	27° 34.08' N	96° 44.80' W	42	6.6 kts	295°	
1345	0/0	27° 34.03' N	96° 44.50' W	42	6.6 kts	295°	eol 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	6.7 kts		
1636							1430 lost gun → rebuilding
							1636 gun ready, returning to location of 115 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°	eol MUD95-11C
1900	0/2	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 108
1945	03/890	27° 38.57' N	97° 02.6' W	19	7.4 kts	204°	res just < 2400 2550 gun increase speed b/c calm seas
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°	res 2390 2550
2030	06/1795	27° 34.25' N	97° 05.61' W	19	6.5 kts	206°	
2045	07/2098	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: MUD 95-13A, 13B, 14A Energy: J/PSI Tape #:

Descr: MUD 95 Firing Rate: 3s Filter:

Date: 08/22-23/95 Geophones: 17 streamer Source: 15 H₂O ci

Elrics
EPC

2728
049

new line 0375

p. 8

Time	SP/Fix	LAT.	LONG.	WD	Ship spd/dir	Nav. system	Notes
2125	10/0	27°28.9' N	97°09.0' W	19	5.9 kts	118°	
2130	01/100	27°28.104' N	97°08.45' W	20	5.8 kts	108°	@ WP#18 col MUD 12A: sol MUD 13A.
2145	02/415	27°28.06' N	97°06.88' W	22	5.8 kts	108°	Elrics-ext gain 64dB, AGC-gain=1
2200	03/700	27°27.38' N	97°05.29' W	23	6.4 kts	108°	480ms trace, 3s key, no delay 2000k
2215	04/1020	27°26.74' N	97°03.57' W	25	6.4 kts	108°	EPC-gain 94dB, delay=0, scan, 55
2230	05/1315	27°26.08' N	97°01.99' W	27	6.6 kts	108°	key 3s, 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	97°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°50.6' W	46	7.1 kts	106°	AC turned on - pattern came on Elrics
0030	13/3720	27°20.86' N	96°49.06' W	49	3.6 (?) kts	108°	again, pattern on Elrics, turned off AC, it went away
0045	14/4015	27°20.2' N	96°47.4' W	53	5.7 kts	102°	
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	01/250	27°18.8' N	96°43.0' W	63	5.8 kts	115°	col 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	06/1775	27°15.26' N	96°35.87' W	84	6.0 kts	109°	
0300	07/2075	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°	EPC 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°	Flew fuse shots 3920-3980 bad
0445	14/4185	27°10.91' N	96°24.53' W	146	5.5 kts	105°	col MUD 95-13B
0448	0/0	27°10.109' N	96°24.53' W	149	6.25 kts	197°	sol MUD 95-14A
0500	1/250	27°09.61' N	96°25.0' W	150	6.0 kts	195°	
0515	2/550	27°08.21' N	96°25.69' W	151	6.0 kts	197°	
0530	3/850	27°06.78' N	96°26.42' W	151	7.0 kts	195°	
0545	4/1150	27°05.31' N	96°27.06' W	149	7.0 kts	192°	col 95-14A

← wave trains going thru database
horrible!
Culprit unknown

(there is no 15A)

Line name: <u>MUD 95-15B</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>ITIS streamer</u>	Source: <u>15 H₂O ci</u>

Time	SP/Fix	LAT.	LONG.	WD(m)	Ship spd/dir	Nav. system	Notes
0550	0/0	27°05.00'N	96°27.29'W	145	7.0 kts	278°	
0600	✓ 265	27°05.36'N	96°28.71'W	133	6.6 kts	270°	80L MUD 95-15B (there is no 15A)
0615	265	27°05.79'N	96°30.59'W	116	7.25 kts	279°	
0630	3/805	27°06.22'N	96°32.43'W	105	6.75 kts	278°	
0645	4/1165	27°06.66'N	96°34.27'W	97	7.2 kts	280°	
0700	5/1465	27°07.10'N	96°36.04'W	92	6.5 kts	278°	changed EPC delay to zero
0715	6/1770	27°07.15'N	96°37.7'W	87	7.0 kts	281°	
0730	07/2050	27°07.99'N	96°39.45'W	83	6.0 kts	280°	New Watch BJE
0745	08/2350	27°08.43'N	96°41.19'W	77	6.5 kts	280°	AC wave trains definitely linked
0800	09/2650	27°08.7'N	96°42.9'W	73	6.1 kts	277°	
0811	0/0	27°09.09'N	96°44.17'W	71	5.6 kts	279°	
0815	01/100	27°09.0'N	96°44.6'W	65	6.2 kts	276°	301 MUD 95-15C (Elias went down)
0830	02/400	27°09.5'N	96°46.2'W	65	6.5 kts	279°	(no 15A)
0845	03/695	27°09.99'N	96°47.97'W	62	5.4 kts	279°	
0900	04/995	27°10.3'N	96°49.5'W	58	6.5 kts	276°	
0915	05/1300	27°10.6'N	96°51.3'W	54	6.6 kts	275°	
0930	06/1595	27°11.0'N	96°52.9'W	50	6.6 kts	273°	
0945	07/1900	27°11.4'N	96°54.7'W	47	7.2 kts	277°	
1000	08/2200	27°11.9'N	96°56.4'W	43	6.8 kts	277°	
1015	09/2500	27°12.1'N	96°58.1'W	40	6.9 kts	275°	
1030	10/2795	27°12.7'N	96°59.9'W	37	6.2 kts	282°	
1045	11/3095	27°13.2'N	97°01.8'W	34	7.0 kts	276°	
1100	12/3400	27°13.5'N	97°03.6'W	32	6.8 kts	282°	
1115	13/3695	27°14.0'N	97°05.3'W	29	6.2 kts	266°	
1130	14/4000	27°14.3'N	97°07.2'W	28	6.4 kts	278°	changing Furuno paper
1145	15/4295	27°14.4'N	97°08.8'W	26	6.5 kts	275°	
1200	16/4595	27°15.13'N	97°10.62'W	24	6.4 kts	278°	
1215	17/4895	27°15.5'N	97°12.3'W	22(?)	6.7 kts	274°	
1230	18/5195	27°15.96'N	97°14.0'W	20	6.8 kts	277°	
1236	—	27°16.176'N	97°14.97'W	20	6.4 kts	180°	
1241	0/0	27°15.83'N	97°15.131'W	20	6.4 kts	180°	201 15E
1245	01/85	27°15.46'N	97°15.17'W	19	7.4 kts	180°	301 MUD 95-16A EPC-same parms
1300	02/385	27°15.9'N	97°15.3'W	19	6.2 kts	184°	Elias-same, except tape 480
1315	03/690	27°12.2'N	97°15.5'W	20	7.0 kts	179°	
1330	04/990	27°10.16'N	97°15.74'W	20	9.3 kts	176°	
1345	05/1290	27°09.00'N	97°15.96'W	20	6.75 kts	174°	new watch BJE
1400	06/1595	27°09.37'N	97°16.20'W	20	6.0 kts	180°	
1415	07/1890	27°05.73'N	97°16.46'W	20	6.3 kts	172°	

15B
NOT
saved

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 8 treanur</u>	Source: <u>15 H₂Oci</u>

Time	SP/Fix	LAT.	LONG.	WD(n)	Ship spd/dir	Nav. system	Notes
1430	08/2195	27° 02.10' N	97° 16.66' W	20	7.25 kts	180°	
1440	08/2425	27° 02.91' N	97° 16.80' W	19	7.0 kts	172°	
1445	1/30	27° 02.68' N	97° 16.33' W	20	7.0 kts	95°	
1500	2/3105	27° 02.44' N	97° 14.88' W	23	7.0 kts	83°	
1515	3/1670	27° 02.32' N	97° 12.76' W	25	5.9 kts	85°	
1530	4/990	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	87°	gauges @ 2400 & 2600
1630	8/2240	27° 01.82' N	97° 03.66' W	35	4.4 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°	
1715	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°	Future 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°	depth finder 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 1443
1930	20/5750	27° 00.67' N	96° 42.08' W		6.3 kts	73°	
1945	01/285	27° 00.54' N	96° 40.34' W	88	6.3 kts	082°	col 17A sol 17B changed to 800 ms
2000	02/535	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 2400
2030	04/1180	27° 00.2' N	96° 35.2' W	100	6.2 kts	082°	change 100 ms to epc delay
2045	05/1480	27° 00.3' N	96° 33.6' W	107	6.0 kts	088°	depth finder 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 2000 res 2725
2245							backing up hard drive (plus boat stuff)
2248	01/75	27° 00.00' N	96° 30.19' W	134	4.7 kts	016°	gun in H ₂ O; head to WP*24 (prob. w/ 1)
2302	02/350	27° 01.17' N	96° 29.71' W	134	4.8 kts	009°	began recording but not @ WP net
2315	03/1620	27° 02.2' N	96° 29.3' W	135	5.4 kts	012°	engine started
2330	04/900	27° 03.48' N	96° 29.03' W	135	5.3 kts	009°	sol 18A (to WP*24)
2345	05/1200	27° 04.7' N	96° 28.16' W	135	5.3 kts	006°	on oscilloscope gun has 2 res 2700 gun 2550
2349							pulses (1 big, then small)
							record is jugged

decided to jump back to Corpus Christi

Line name: MUD TEST2 Energy: J/PSI Tape #:
 Descr: MUD 95 Firing Rate: 3 sec Filter:
 Date: 8-24-95 Geophones: IT1 streamer Source: 15 H₂O 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. p 11

Time	SP/Fix	LAT.	LONG.	WDCm	Ship spd/dir	Nav. system
0520	3/60	27° 00.00' N	96° 30.2' W	depth	6.2 kts	010°
0533	4/1625	27° 01.3' N	96° 29.8' W	finder	6.8 kts	015°
0545	2/875	27° 02.56' N	96° 29.60' W	not	6.8 kts	010°
0600	3/1175	27° 04.0' N	96° 29.0' W	airing a	6.4 kts	010°
0615	4/1475	27° 05.4' N	96° 28.5' W	Pending	6.7 kts	006°
0630	5/1775	27° 06.9' N	96° 28.0' W		6.2 kts	006°
0645	6/2075	27° 08.2' N	96° 27.5' W		5.4 kts	011°
0700	7/2375	27° 09.5' N	96° 26.8' W	136	5.5 kts	024°
0715	8/2650	27° 10.7' N	96° 26.0' W	136	5.3 kts	020°
0730	9/2975	27° 12.0' N	96° 25.4' W	137	5.4 kts	024°
0745	10/3285	27° 13.3' N	96° 24.8' W	135	5.1 kts	020°
0800	11/3585	27° 14.5' N	96° 23.94' W	138	5.3 kts	023°
0815	12/3885	27° 15.15' N	96° 23.1' W	138	5.6 kts	021°
0830	13/4150	27° 16.8' N	96° 22.5' W	138	5.4 kts	021°
0845	14/4450	27° 18.1' N	96° 21.8' W	138	6.1 kts	022°
0900	15/4750	27° 19.3' N	96° 21.1' W	133	5.8 kts	023°
0915	16/4945	27° 20.5' N	96° 21.4' W	133	5.6 kts	032°
0930	17/11375	27° 21.7' N	96° 19.2' W	137	5.2 kts	039°
0945	02/645	27° 22.3' N	96° 18.3' W	133	5.7 kts	036°
1000	03/945	27° 23.6' N	96° 17.4' W	135	5.8 kts	023°
1015	04/1250	27° 24.7' N	96° 16.4' W	134	5.7 kts	035°
1030	05/2050	27° 27.4' N	96° 13.9' W	133	5.0 kts	037°
1045	06/2450	27° 28.6' N	96° 12.8' W	132	5.1 kts	030°
1100	07/2715	27° 29.2' N	96° 11.8' W	133	4.7 kts	053°
1115	08/3065	27° 29.9' N	96° 10.5' W	134	5.3 kts	054°
1130	09/3385	27° 30.25' N	96° 09.2' W	135	5.5 kts	053°
1145	10/3650	27° 31.1' N	96° 08.1' W	137	4.5 kts	056°
1200	11/3950	27° 31.8' N	96° 06.8' W	139	3.8 kts	059°
1215	12/4245	27° 32.4' N	96° 05.6' W	139	5.3 kts	047°
1230	13/4545	27° 33.1' N	96° 04.3' W	140	4.7 kts	057°
1245	14/4845	27° 33.8' N	96° 03.0' W	141	5.5 kts	051°
1300	15/5145	27° 34.56' N	96° 01.58' W	142	6.4 kts	058°
1315	16/5445	27° 35.29' N	96° 00.09' W	142	6.5 kts	048°
1330	17/5745	27° 36.01' N	95° 58.56' W	144	5.75 kts	054°
1345	1/290	27° 36.69' N	95° 56.99' W	144	7.0 kts	054°
1400	2/585	27° 37.14' N	95° 55.35' W	144	7.0 kts	055°
1415	3/885	27° 38.04' N	95° 53.90' W	144	6.75 kts	042°
1430	4/1185	27° 39.08' N	95° 52.59' W	135	6.25 kts	042°

800ms record Notes
 SDI MUDTEST2 (135m strike line)
 EPC delay set @ 100ms
 @ WP25, heading to WP26
 fuse blown
 eo | Mudtest 2 / SOI 18B
 @ WP 26 heading to WP27
 0900 - 1000
 new watch BJR
 eo | 18B / SOI 18C
 No 2700 gun 2530

Line name: MUD 95-18C, 19A, 19B, 20A, 20B
 Descr: MUD 95
 Date: 08-24-95

Energy: J/PSI
 Firing Rate: 3 Sec
 Geophones: ITI Streamer

Tape #:
 Filter:
 Source: 15H₂O ci

p. 12

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°42.56' W	144	6.0 kts	60°	
1645	11/3285	27°42.89' N	95°40.90' W	132	5.75 kts	62°	
1700	1/275	27°44.3' N	95°40.4' W	85	6.6 kts	003°	eol 18C / sol 19A heading to WP 30
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
1820	0/0	27°49.92' N	95°38.33' W	66	5.0 kts	344°	generator went down
1830	1/220	27°50.81' N	95°38.46' W	64	5.4 kts	350°	back up 1810
1859	2/ ?	27°53.3' N	95°39.0' W	60	6.0 kts	347°	sol 19B
1900	0/0	27°53.3' N	95°39.0' W	59	6.0 kts	344°	
1915	01/325	27°53.46' N	95°41.07' W	59	5.9 kts	364°	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 Lab
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	06/1825	27°53.3' N	95°49.5' W	57	5.6 kts	262°	
2045	07/2125	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 n.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 palme
2300	02/565	27°46.5' N	96°02.6' W	74	7.3 kts	202°	
2310	03/790	27°45.54' 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°	

beginning of
week (2)

p.14

Line name: MUD95-40A	Energy: J/PSI	Tape #: _____
Descr: MUD95	Firing Rate: 3 sec	Filter: _____
Date: 8-29-95 (8-30-95 GMT)	Geophones: ITI streamer	Source: 15 Hz ci

Time GMT	SP/Fix	LAT.	LONG.	WD(M)	Ship spd/dir	Nav. system	Notes
0335	2/210	27°39.50' N	96°45.61' W	34	5.0 (kts)	210°	80 MUD95-40A EPC=0 delay, 150-1500 Hz, 84db gain
0345	3/215	27°38.74' N	96°46.25' W	34	6.0	211°	
0400	4/510	27°37.65' N	96°47.14' W	34	4.8	203°	
0415	5/810	27°36.47' N	96°48.15' W	34	6.5	225°	slightly off course to avoid battery
0430	6/1110	27°35.48' N	96°49.33' W	34	6.0	180°	Elies = 164db gain agc=1
0435	7/1220	27°34.89' N	96°49.34' W	34	6.0	207°	160-800 Hz
0445	8/1410	27°34.05' N	96°49.99' W	35	6.0	208°	@ WP43, heading for WP44
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							
0630	15/3500	27°24.09' N	96°56.4' W	34	4.8	204°	News watch ZAB heading for WP44
0645	16/3800	27°23.6' N	96°57.1' W	34	6.4	196°	@ WP44, heading for WP45
0700	17/4100	27°22.2' N	96°57.8' W	34	6.8	194°	shallow channel(?) 3750-3900
0715	18/4420	27°20.8' N	96°58.7' W	34	6.3	195°	
0730	19/4717	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	198°	col MUD95-40A
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 Elies high pass from 80 → 100
0815	03/550	27°15.14' N	97°01.3' W	34	5.8	186°	@ WP45, heading for WP46
0824							
0830	04/850	27°13.8' N	97°01.5' W	34	5.6	185°	change Elies 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				
1030	01/250	27°02.1' N	97°04.2' W	34	6.5	174°	@ WP46, heading to R10 WP01 20° turn
1045	02/550	27°00.56' N	97°04.2' W	35	6.0	184°	col 40B / sol 40C (hi pass from 160 → 80)
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 in
am.

Line name: MUD95-40C-Rio95-01A-02A Energy: J/PSI Tape #:
 Descr: MUD95-Rio95 Firing Rate: 3s Filter:
 Date: 08/30 (gmt) Geophones: 171 streamer Source: 15H₂O ci

Elic
 Gulton
 Furnas (H₂O)
 EPC

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2:15 pm

Time	SP/Fix	LAT.	LONG.	WD(m)	Ship spd/dir	Nav. system
1115	04/1150	26°57.67' N	97°04.18' W	35	6.0 kts	177°
1125	05/1345	26°56.76' N	97°04.21' W		5.8 kts	171°
1130	06/125	26°56.51' N	97°03.71' W	35	5.4 kts	078°
1145	2/320	26°56.6' N	97°02.5' W	37	7.8 kts	081°
1200	3/1625	26°56.6' N	97°00.5' W	40	5.6 kts	081°
1215	4/915	26°56.9' N	96°58.97' W	43	6.5 kts	085°
1230	5/1235	26°56.90' N	96°57.07' W	46	6.5 kts	086°
1245	6/1515	26°56.99' N	96°55.15' W	50	6.8 kts	083°
1300	7/1825	26°57.07' N	96°53.28' W	54	7.5 kts	081°
1315	8/2125	26°57.16' N	96°51.42' W	58	7.7 kts	083°
1330	9/2425	26°57.22' N	96°49.57' W	62	7.0 kts	081°
1345	10/2725	26°57.27' N	96°47.82' W	67	6.5 kts	081°
1400	11/3025	26°57.31' N	96°46.07' W	71	6.5 kts	081°
1415	12/3325	26°57.44' N	96°44.35' W	75	6.0 kts	083°
1430	13/3625	26°57.50' N	96°42.68' W	80	5.5 kts	083°
1445	14/3925	26°57.60' N	96°41.00' W	85	6.5 kts	083°
1500	15/4225	26°57.70' N	96°39.26' W	90	6.2 kts	081°
1515	16/265	26°57.78' N	96°37.51' W	95	6.0 kts	080°
1530	2/550	26°57.85' N	96°35.84' W	100	6.0 kts	083°
1545	3/850	26°57.94' N	96°34.18' W	105	5.75 kts	082°
1600	4/1150	26°58.02' N	96°32.47' W	110	6.0 kts	081°
1615	5/1450	26°58.08' N	96°30.74' W	129	6.0 kts	084°
1630	6/1750	26°58.19' N	96°29.00' W	135	6.0 kts	080°
1645	7/2050	26°58.25' N	96°27.24' W	173	6.0 kts	085°
1700	8/2350	26°58.33' N	96°25.57' W	200	6.25 kts	087°
1715	9/2650	26°58.29' N	96°23.82' W	254	6.0 kts	085°
1730	10/2920	26°58.22' N	96°22.53' W	302	6.0 kts	090°
1730	0/0	26°58.03' N	96°22.44' W	300	6.0 kts	185°
1807	11					

Notes

cont. MUD95-40C j 1 nm from WPO1
 col 40C
 sol Rio95-01A @ WP(*1) (i)
 note* began recording before on WP: 3P1-124 not
 EPC-gain 94dB
 heavy current causing filter 150-1500 nodelay
 up to speed up to 3.5 kts 3s key 50 bar
 new watch BT LPI=200, char=2
 Elics-filter above 80 Hz
 gain 64dB agc=1
 → 1200 deep channels
 went over reef (also deep ~ surface)
 col Rio95-01A sol Rio95-01B WP2
 EPC delay = 100
 Elics high-pass filter = 160
 Gulton origin = 100
 small bright spot → shallow gas? Biogenic?
 changed Elics age = 2
 tried changing age to 3, but no diff.
 changed Gulton origin to 150 ms very
 EPC delay changed to 200 ms little
 changed Gulton origin to 200 ms (Sun, preheated)
 col 1B WP3
 sol 2A after about 10 tracs, Mark
 said there was a hose bundle problem
 ball gear needed to come up, so I
 stopped 2A. The file won't have
 much on it.
 When we resume this mini-strike,
 I will call it 2B.
 traversing to unsp.

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: ITIS streamer Source: 15 H₂O

@ 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 → Elics
1816	0/0	26° 58.17' N	96° 22.44' W	202	5.75 (H ₂ S)	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	0/0	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°	
1930	2/580	26° 53.7' N	96° 26.8' W	200	6.5	262°	EPC delay = 200 ms
1945	3/835	26° 53.5' N	96° 28.7' W	170	6.9	262°	Gulton origin = 250 ms
1952	4/1140	26° 53.5' N	96° 30.6' W	140	6.3	262°	EPC delay = 02 ms Gulton origin
2000	5/1435	26° 53.46' N	96° 32.31' W	121	6.3	262°	then Δ to 100 Hz → Elics ship from 160-80 Hz
2015	6/1738	26° 53.3' N	96° 34.13' W	110	6.5	262°	
2030	7/2030	26° 53.2' N	96° 35.85' W	100	6.5	260°	still heading for WP4
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°	trace length from 1024-480 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 100-50 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°	eros. surf.
2350	11/2990	26° 52.1' N	96° 59.3' W	41	6.5	260°	new watch - BJE way deepensional surf
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°	sol 3B @ WP6
0211	20/5600	26° 51.43' N	97° 15.38' W	19	6.5	161°	sol 4A
0215	0/0	26° 51.27' N	97° 15.55' W	20	6.5		

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: 15 H₂O 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°	@ 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°	rol 4A
0304	0/0	26°46.07'N	97°14.23'W	20	6.0	050°	SAL 4A @ WP8
0315	1/235	26°46.44'N	97°13.11'W	20	6.5	055°	SAL 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°48.38'N	97°03.01'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	97°59.7'W	40	6.5	079°	0505 Reef gauges ✓
0530	11/2935	26°48.6'N	97°58.0'W	42	7.0	079°	eros. surf.
0545	12/3230	26°48.7'N	97°56.2'W	45	6.5	078°	gauges ✓
0552	13/3380	26°48.8'N	97°55.4'W	47	6.2	080°	
0600	14/3527	26°48.96'N	97°54.5'W	49	6.6	078°	@ WP10, heading to WP11 (O ₂ core)
0615	15/3835	26°49.1'N	97°52.7'W	52	6.5	078°	shallow channels gauges ✓
0630	16/4130	26°49.2'N	97°50.9'W	56	6.2	080°	
0645	17/4433	26°49.3'N	97°49.2'W	60	6.4	078°	rol 5A gauges ✓
0647							SAL 5B Elics trace 450 ms Gulton 100 Hz
0700	01/280	26°49.5'N	97°47.4'W	65	6.4	078°	hippos fisher
0715	02/580	26°49.5'N	97°45.7'W	69	6.2	078°	0705 Reef gauges ✓ chng Gulton
0730	03/875	26°49.7'N	97°44.6'W	75	6.6	075°	~350 bright spot @ ~200ms SP650-channel
0745	04/1180	26°50.0'N	97°42.3'W	81	6.5	078°	gauges ✓ @ 230ms
0800	05/1475	26°50.3'N	97°40.6'W	86	7.2	078°	
0815	06/1775	26°50.6'N	97°39.1'W	90	6.6	080°	gauges ✓
0821	07/1915	26°50.3'N	97°38.5'W	92	—	—	
0830	08/2075	26°50.3'N	97°37.5'W	95	6.4	082°	O ₂ core #!! @ WP11 heading to WP12
0845	09/2375	26°50.4'N	97°35.8'W	101	4.9	080°	0835 EPC 6→100ms delay 0828 S Gulton rig to 100ms
0900	10/2675	26°50.6'N	97°34.1'W	108	6.5	070°	
0915	11/2975	26°50.7'N	97°32.3'W	120	6.0	080°	gauges ✓
0930	12/3275	26°50.8'N	97°30.5'W	139	6.0	080°	
0945	13/3585	26°50.9'N	97°28.7'W	175	6.5	080°	change Elics rig to 150 EPC delay to 150
1000	14/3880	26°51.0'N	97°26.9'W	207	6.5	080°	0950 → Elics 200ms EPC 200ms
							1004 Elics 250ms EPC 250ms gauges ✓

Furuno

EPC

Elics

Galton

newline
1430

p 18

C = calculated
from records→ trace length
1824

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>35</u>	Filter: _____
Date: <u>08-31-95 (gmt)</u>	Geophones: <u>1T1 streamer</u>	Source: <u>15 Hz</u> ci

Time	SP/Fix	LAT.	LONG.	WD ^(m)	Ship spd/dir	Nav. system	Notes
1015	15/14183	26°51.1' N	96°25.1' W	241	6.5 (kts)	080°	cont. 5B 1 mile to WP12
1022	16/14322	26°51.2' N	96°24.4' W	294	6.0	075°	@ WP12 sol 5B sol 7A turning fast
1030	01/150	26°51.7' N	96°25.1' W	263	6.5	249°	off course heading to wrong WP - check
1045	02/1450	26°51.4' N	96°26.6' W	207	6.0	250°	2 distinct oscilloscope pulses
1100	03/1750	26°51.0' N	96°21.3' W	176	6.5	248°	1049 EPC delay from 250-150ms 1052 Elics origin 250-200ms
1115	04/1050	26°50.6' N	96°30.0' W	146	6.0	248°	3 torn gauges
1130	05/1350	26°50.1' N	96°31.7' W	124	6.5	249°	1031 EPC delay 50ms Elics origin 100ms
1145	06/1650	26°49.7' N	96°33.3' W	111	6.0	249°	
1200	07/1930	26°49.3' N	96°35.0' W	120 ~	5.0	250°	new watch 1032 gauges ✓
1215	08/2250	26°48.9' N	96°36.6' W	~105 C	6.5	249°	new watch BJE gauges ✓
1230	09/2530	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°	gauges ✓
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°	sol 7A / sol 7B gauges ✓
1445	2/585	26°44.94' N	96°53.21' W	~57 C	6.0	248°	EPC delay = 0ms ? trace length
1500	3/890	26°44.50' N	96°54.94' W	~53 C	6.3	258°	
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	250°	
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	~27 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	1/331	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°	more bundle 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							gun blew - rebuilding gauges ✓
2100		26°37.23' N	97°09.96' W		6.0	236°	gun popping heading to WP14 - heading turning to begin line

Line name: Rio 95-9B, 9C, 10A, 11A Energy: J/PSI Tape #:

Descr: Rio 95 Firing Rate: 3s Filter:

Date: 08/31 (gmt) - 9/1 (gmt) Geophones: 11 streamer Source: 15 H₂O ci

Elies
EPC
Gulston
trace length? p 19
1024ms
c=calculated

Time	SP/Fix	LAT.	LONG.	WD ^(m)	Ship spd/dir	Nav. system
2103	01/80	26°37.2 'N	97°10.1 'W	20		
2115	02/290	26°47.5 'N	97°08.9 'W	22		
2130	03/590	26°37.88 'N	97°07.47 'W	25	6.0	070°
2145	04/890	26°38.2 'N	97°05.9 'W	29	6.0	069°
2200	05/1190	26°38.6 'N	97°04.4 'W	29	5.5	069°
2215	06/1490	26°38.9 'N	97°03.1 'W	32(?)	6.0	069°
2230	07/1790	26°39.2 'N	97°01.6 'W	34	6.0	065°
2245	08/2090	26°39.7 'N	97°00.2 'W	35	6.0	069°
2300	09/2390	26°40.1 'N	97°58.7 'W	38	6.0	068°
2315	10/2690	26°40.5 'N	97°57.2 'W	39	5.5	068°
2330	11/2985	26°40.8 'N	97°55.7 'W	42	5.0	070°
2345	12/3290	26°41.2 'N	97°54.24 'W	45	6.0	070°
0000	13/3595	26°41.4 'N	97°52.6 'W	47	4.4	069°
0015	14/3890	26°41.7 'N	97°51.1 'W	51	6.0	070°
0030	15/4190	26°42.0 'N	97°49.6 'W	54	6.0	069°
0045	16/4493	26°42.89 'N	97°48.1 'W	58	5.5	070°
0050	17/4595	26°42.53 'N	97°47.7 'W	59	4.5 / 6.0	060°
0100	1/190	26°42.7 'N	97°46.7 'W	61		
0115	2/485	26°43.1 'N	97°45.2 'W	64	5.5	069°
0130	3/785	26°43.51 'N	97°43.78 'W	67	6.0	070°
0145	4/1085	26°43.92 'N	97°42.33 'W	72	6.0	052°
0200	5/1385	26°44.30 'N	97°40.92 'W	80	5.75	064°
0215	6/1685	26°44.65 'N	97°39.44 'W	86	5.5	069°
0230	7/1990	26°45.04 'N	97°38.04 'W	90	5.5	067°
0245	8/2290	26°45.40 'N	97°36.63 'W	95	5.5	068°
0300	9/2590	26°45.67 'N	97°35.31 'W	100	5.25	070°
0315	10/2890	26°45.99 'N	97°33.86 'W	106	5.7	083°
0330	11/3190	26°46.33 'N	97°32.48 'W	113	5.25	070°
0345	12/3490	26°46.64 'N	97°31.10 'W	123	5.5	070°
0400	13/3785	26°46.98 'N	97°29.66 'W	140	5.5	070°
0415	14/4100	26°47.24 'N	97°28.15 'W	178	6.0	069°
0430	15/4395	26°47.58 'N	97°26.72 'W	210	4.7	069°
0445	16/4690	26°47.88 'N	97°25.32 'W	256	5.5	067°
0458	17/4968	26°48.20 'N	97°24.11 'W	309	5.5	060°
0515	01/320	26°46.74 'N	97°24.18 'W	303(?)	5.0	180°
0517	02/375	26°46.59 'N	97°24.24 'W	286	5.5	190°
0530	01/240	26°46.1 'N	97°25.6 'W	236	5.5	248°
0545	02/545	26°45.47 'N	97°27.4 'W	199	6.4	248°

@WP14 Notes

sol 9B Elies - trace length 480ms
EPC - no delay, 150-1500Hz, 94dB ext gain
35 km stream gauges

gauges ✓

Dead acting up Dredging gauges ✓

new day 9/1 * 2-3' sea gauges ✓

sol 9B / sol 9C trace length from 480-1024ms
new watch BJE
Perfect channel / line gauges ✓

Another beautiful channel / line complex, possibly deeper reefs
EPC delay = 100 Gulston origin = 100 0220 gauges ✓

dodging rig gauges ✓

EPC & Gulston delays = 200 ms
5nm from WP 15 gauges ✓

1nm from WP 15
sol 9C / sol 10A @ WP 5 same params trace 1024ms gauges ✓

sol 10A / sol 11A WP 16 same params
0535 slowed to 0.5 kts (recurrent: going faster)
Elies origin to 100ms 0548 EPC delay from 200-100

Line name: Rio 95-11A, 11B, 12A, 13A

Energy: J/PSI

Tape #: 1

Descr: Rio Grande 95

Firing Rate: 3s

Filter:

Date: 09/01/95 (gmt)

Geophones: 11 stations

Source: 15 140 ci

c=calculated, not Furuno
Elies, EPC, Gulton

p20

0717 new line

Time	SP/Fix	LAT.	LONG.	WD ^(m)	Ship spd/dir	Nav. system	Notes
0600	03/845	26°45.2' N	96°29.1' W	158	6.6	246°	
0611				129			
0615	04/1140	26°44.7' N	96°20.8' W	123	6.8	248°	cont. R11A gauges ✓
0630	05/1443	26°44.2' N	96°32.5' W	110	6.4	246°	Furuno working Elies right 100ms
0645	06/1740	26°43.7' N	96°34.2' W	101	6.1	246°	
0700	07/2043	26°43.18' N	96°35.89' W	96	6.7	240°	gauges ✓
0715	08/2343	26°42.8' N	96°37.16' W	90	6.3	244°	0710 EPC delay 100ms → 0ms gauges ✓
0730	09/2650	26°42.38' N	96°39.41' W	84	6.6	247°	
0745	10/2945	26°41.89' N	96°40.9' W	74	6.3	251°	Reef 0734 Elies origin 100ms → 50ms
0800	11/3243	26°41.49' N	96°42.06' W	69	6.4	247°	going around big shrimp boat gauges ✓
0815	12/3543	26°40.9' N	96°44.3' W	64	6.5	246°	
0830	13/3842	26°40.5' N	96°46.0' W	60	6.9	247°	
0845	14/4143	26°40.0' N	96°47.7' W	56	6.2	247°	Currents moving gun's steamer alot
0900	15/4443	26°39.5' N	96°49.5' W	52	6.8	250°	
0915	16/4743	26°38.9' N	96°51.4' W	47	6.9	242°	approaching squall (rain: lightning)
0930	17/5045	26°38.5' N	96°53.2' W	44	6.5	245°	detta
0945	18/5343	26°37.9' N	96°55.0' W	41	6.8	248°	gauges ✓
1000	19/5645	26°37.3' N	96°56.8' W	38	6.5	246°	
1004		26°37.2' N	96°57.2' W				
1015	01/235	26°37.0' N	96°58.4' W	37	6.0	245°	sol 11A/sol 11B same, but trace 1934-1935ms
1030	02/538	26°36.6' N	96°59.0' W	35	5.7	245°	
1045	03/835	26°36.1' N	97°01.1' W	34	6.0	247°	change Furuno paper 1049 gauges ✓
1100	04/1138	26°35.6' N	97°03.2' W	32	5.5	247°	1109 Elies right 50ms → 0ms
1115	05/1435	26°35.2' N	97°04.7' W	29	6.0	248°	Shetty!! gauges ✓
1130	06/1737	26°34.8' N	97°06.3' W	24	6.5	246°	
1145	07/2038	26°34.4' N	97°07.9' W	22	6.0	246°	gauges ✓
1154	08/2225	26°34.2' N	97°08.7' W	21	6.0	252°	trim from WP17
1157	01/40	26°33.8' N	97°08.8' W	21	6.0	154°	sol 11B/sol 12A (trace length 480) @ WP17
1215	02/395	26°32.2' N	97°08.0' W	20	6.5	155°	rough in the tough - on line turning to WP17
1230	03/695	26°30.7' N	97°07.5' W	20	6.5	151°	new watch-BSE
1245	04/995	26°29.1' N	97°06.9' W	19	5.5	147°	
1254	05/1180	26°28.2' N	97°06.4' W	19	4.0	140°	
1255	0/0	26°28.1' N	97°06.3' W	19	6.0	143°	sol 12A gauge ✓
0310	1/300	26°26.7' N	97°05.5' W	20	6.5	140°	sol 13A (did not realize that we
0330	2/695	26°24.53' N	97°05.37' W	20	7.0	171°	WP19 were staying on a mini-strike
0345	3/995	26°22.89' N	97°05.33' W	19	6.0	174°	line) yeah, I
1400	4/135	26°21.32' N	97°05.42' W	16	5.0	172°	
1415	5/1600	26°19.83' N	97°05.33' W	19	6.5	170°	

13A,

Line name: <u>R10 9515A, 15B, 16A, 16B</u>	Energy: <u>J/PSI</u>	Tape #: <u></u>
Descr: <u>R10 95</u>	Firing Rate: <u>3 sec.</u>	Filter: <u></u>
Date: <u>09-1-95</u>	Geophones: <u>ITT Streamer</u>	Source: <u>15 H₂O ci</u>

Elies
EPC
Gulston

p21

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°	sol 15A
1445	1/245	26°18.37' N	97°04.10' W	19	4.5	070°	3-4 ft sea
1500	2/580	26°18.66' N	97°02.71' W	20	5.0	067°	gauges ✓
1507	3/880	26°18.87' N	97°02.08' W	23			eol 15A generator went down, had to turn everything off
1525	0/0	26°18.8' N	97°02.1' W	23	5.5	070°	sol 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	5/1395	26°20.5' N	96°54.4' W	36	5.5	075°	gauges ✓ res. a little high (2800) → told Mark
1700	6/1895	26°20.7' N	96°52.86' W	37	5.0	075°	
1715	7/2195	26°20.9' N	96°51.2' W	38	6.2	070°	
1717	8/2235	26°20.9' N	96°51.0' W	39		0	eol 15B @ WP21B
1718	0/0	26°21.0' N	96°50.9' W	39	6.5	336°	sol 16A delay EPC
1730	1/245	26°22.2' N	96°51.3' W	38	6.2	337°	
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	9/2645	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°	Inm to WP22B
2145	18/5350	26°47.3' N	96°59.9' W	38	5.5	339°	
2147	19/5395	26°47.4' N	97°00.0' W	38	5.0	348°	eol 16A sol 16B
2200	01/240	26°48.65' N	97°00.17' W	38	6.6	348°	heading to WP23B

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[illegible]

beginning of
week 3

p23

B-2330

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

Line name: MUD 95 50A - Rio 99A, 18A	Energy: J/PSI	Tape #: _____
Descr: MUD 95 / Rio 95	Firing Rate: 3 sec	Filter: _____
Date: 9-5-95 (gmt)	Geophones: ITI streamer	Source: 15 Hz ci

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 (kts)	135°	
1630	2/535	27° 17.4' N	96° 37.2' W	73	5.0	198°	SOL MUD 95-50A @ WP24b
1636	3/680	27° 17.0' N	96° 37.4' W	73	5.5	210°	
1645	4/835	27° 16.1' N	96° 37.7' W	73	6.0	189°	@ WP25b
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° 07.8' N	96° 42.1' W	76	6.0	190°	
1819	11/2720	27° 07.5' N	96° 42.3' W	76	6.5	130°	
1830	12/2920	27° 06.55' N	96° 42.45' W	76	5.9	172°	@ WP26b gauges ✓
1845	13/3230	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	15/3645	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 gauges ✓
1945	1/265	26° 59.9' N	96° 41.0' W	83	5.5	084°	
2000	2/565	26° 00.0' N	96° 39.3' W	88	6.5	086°	
2008	3/740	26° 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°	SOL 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	5.2	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	5.9	175°	gauges ✓
2115	05/1330	26° 53.22' N	96° 38.52' W	91	6.7	176°	
2122	06/1490	26° 52.5' N	96° 38.5' W	91	5.6	174°	@ WP30 heading to WP31
2130	07/1625	26° 51.7' N	96° 38.5' W	91	6.6	177°	@ WP31 gauges ✓
2143	08/1895	26° 50.4' N	96° 38.5' W	91	5.4	166°	
2200	09/2227	26° 48.7' N	96° 38.3' W	91	6.3	165°	near WP32 gauges ✓
2215	10/2540	26° 47.07' N	96° 38.13' W	90	5.5	160°	
2230	11/2846	26° 45.56' N	96° 37.88' W	91	6.0	140°	
2236	12/2967	26° 45.01' N	96° 37.77' W	91	5.9	146°	@ WP32, heading to WP33
2245	13/3140	26° 44.16' N	96° 37.31' W	93	5.9	150°	gauges ✓
2300	14/3425	26° 42.96' N	96° 36.60' W	94	6.5	145°	
2315	15/3727	26° 41.59' N	96° 35.86' W	94	6.0	140°	
2330	16/4035	26° 40.29' N	96° 35.01' W	93			gauges ✓

Elics
EPC
NO Gulton

line 15A should have started @ 0056 instead of 0050 there will be a small spliced piece.

p 24

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

Energy: J/PSI

Tape #:

Descr: Rio 95

Firing Rate: 3s

Filter:

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

Geophones: IT/Steamer

Source: 15H₂O ci

Time	SP/Fix	LAT.	LONG.	WD	Ship spd/dir	Nav. system
2345	17/4327	26°39.08' N	96°34.27' W	95	5.25	145°
0000	18/4625	26°37.80' N	96°33.47' W	90	5.5	145°
0001	0/0	26°37.68' N	96°33.41' W	91	5.5	145°
0015	01/290	26°36.59' N	96°32.62' W	91	5.25	144°
0030	02/590	26°35.33' N	96°31.92' W	91	6.0	144°
0045	03/900	26°33.88' N	96°31.63' W	88	5.5	175°
0056	04/	26°33.22' N	96°32.89' W	85	6.5	223°
0100	01/75	26°32.90' N	96°32.81' W	83	6.25	223°
0115	02/365	26°31.85' N	96°34.23' W	74	6.5	223°
0130	03/665	26°30.72' N	96°35.63' W	68	6.5	223°
0145	04/165	26°29.60' N	96°37.00' W	61	5.7	226°
0200	05/1265	26°28.77' N	96°38.3' W	54	6.5	223°
0215	06/1565	26°27.6' N	96°39.7' W	49	6.5	222°
0230	07/1865	26°26.5' N	96°41.0' W	45	6.5	220°
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°
0330	10/3065	26°22.41' N	96°46.5' W	41	6.5	235°
0345	11/3365	26°21.61' N	96°48.11' W	40	6.6	250°
0400	12/3665	26°21.19' N	96°49.90' W	39	6.7	250°
0410	13/3885	26°20.9' N	96°51.0' W	39	6.0	185°
0412	0/0	26°20.8' N	96°51.1' W	39	6.0	184°
0415	01/100	26°20.5' N	96°51.2' W	39	6.5	181°
0430	02/385	26°19.0' N	96°51.5' W	39	6.1	183°
0445	03/685	26°17.5' N	96°51.78' W	38	7.1	183°
0500	04/985	26°15.98' N	96°52.12' W	38	6.5	165°
0515	05/1295	26°14.4' N	96°52.1' W	38	6.5	165°
0530	06/1570	26°12.97' N	96°51.9' W	38	6.4	166°
0545	07/1875	26°11.4' N	96°51.6' W	38(?)	6.5	164°
0600	08/2173	26°10.0' N	96°51.3' W	39	5.8	166°
0615	09/2480	26°08.54' N	96°51.13' W	40	5.8	167°
0630	10/2775	26°07.06' N	96°50.86' W	39	6.2	168°
0645	11/3075	26°05.5' N	96°50.6' W	39	6.2	162°
0700	12/3372	26°04.0' N	96°50.4' W	39(?)	6.2	273°
0703	13/3450	26°03.7' N	96°50.3' W	38	6.2	272°
0705	0/0	26°03.16' N	96°50.6' W	36	6.2	276°
0715	01/200	26°03.8' N	96°51.6' W	34	6.2	
0730	02/500	26°04.0' N	96°53.3' W	34	6.2	

Notes

Cont. Rio 95-18A heading to WP33
sol 18A @ WP33
sol 18B

missed WP 34 continue line then turn new watch - BJE ed 18B/sol 15A to WP35.
↑ 15A should be renamed to 15C

EPC delay = 0 smelled smoke in tool room - told Doug - he says it's just the generator burning a little diesel

Elics must've missed a fix

@ WP 35

new watch LAB
sol 15A(15C) @ WP 36
sol 16C head to WP 37

Elics - 480m
EPC - 150-1500
sol 16C
O delay 3s day
0.55 scan

mistake, boat was heading to WP 38 not WP 37 - corrected

rolling alot (Furno depth having probs)

sol 16C @ 37
sol 23A to WP 38

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

Descr: Rio95

Date: 09/06/95

Energy: J/PSI

Firing Rate: 3s

Geophones: 17 stream

Tape #: _____

Filter: _____

Source: 15H₂O ci

Elies
EPC
no gulfon

Coast ← Current

Time	SP/Fix	LAT.	LONG.	WD	Ship spd/dir	Nav. system
0736	03/145	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°
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°
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°
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°
0930	02/480	26°06.59' N	97°04.75' W	19	6.5	353°
0943	070	26°07.72' N	97°04.77' W	17	5.75	333°
1000	01/330	26°07.8' N	97°03.3' W	20	5.6	090°
1015	02/1635	26°07.87' N	97°01.68' W	22	5.75	080°
1030	03/937	26°08.04' N	97°00.14' W	25	5.5	083°
1045	05/1237	26°08.09' N	96°58.58' W	27	5.75	082°
1100	06/1534	26°08.12' N	96°56.95' W	30	5.5	083°
1115	07/1830	26°08.19' N	96°55.41' W	32	6.0	083°
1130	08/2132	26°08.21' N	96°53.70' W	36	6.0	080°
1145	09/2433	26°08.29' N	96°51.96' W	36	5.0	083°
1200	12/2740	26°08.37' N	96°50.37' W	39	6.0	083°
1215	13/3030	26°08.33' N	96°48.88' W	40	4.8	078°
1230	14/3330	26°08.29' N	96°47.25' W	41	5.75	081°
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°
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°
1415	21/505	26°08.4' N	96°36.1' W	48	6.0	089°
1430	3/805	26°08.3' N	96°34.6' W	49	6.5	086°
1445	4/1165	26°08.3' N	96°33.0' W	50	6.0	090°
1500	5/1480	26°08.2' N	96°31.4' W	59	6.5	101°
1515	6/1765	26°08.2' N	96°29.9' W	60	6.5	085°
1530	7/2015	26°09.2' N	96°28.2' W	63	6.0	083°
1545	8/2305	26°08.3' N	96°26.5' W	68	5.5	085°
1600	9/2605	26°08.29' N	96°24.94' W	74	6.3	099°
1615	10/2965	26°08.2' N	96°23.3' W	85	5.5	084°
1630	11/3265	26°08.3' N	96°21.8' W	100	5.0	081°

Notes

Cont. R23A @ WP38 to WP39

to WP39 gauges ✓

? Who thinks it is on Fix 11! WP39 ~ 2nm

sol 23A / sol 22A @ WP39, head to WP40

in the trough gauges Elies - same 480ms

2nm to WP48 EPC - same no delay

sol 22A / sol 21A WP40, head to WP41 Elies - same 800ms

(lost current) gauges ✓

Elies skipped to 4!

taking fix from computer

gauges ✓

heading to WP41

Elies skipped to bu 11

getting light

new watch BSE

gauges ✓

sol 21A / sol 21B

gauges ✓

@ WP41

gauges ✓

EPC stopped printing time - turned off 3 on

still not getting times on EPC gauges

data looking poor → slowed down Elies delay = 100ms

gauges ✓

ELICS
EPC
no Gulton

2330 new line

Line name: <u>R109521B, C, 20A, 19A, 18B</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 6ci</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°	col 21B/sol 21C recording length = 102.4
1836	1/260	26°08.4' N	96°18.7' W	272	6.5	092.1°	col 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°	on gun
1915	4/1030	26°12.9' N	96°18.0' W	213?	6.7	003°	gauges
1930	5/1325	26°14.10' N	96°17.7' W	1732	6.5	002°	
1931	0/0	26°14.7' N	96°17.9' W	164?	5.8	262°	col 20A @ WP43
1945	1/275	26°14.7' N	96°19.4' W	174	5.8	261°	Sol 19A recording patterns
2000	2/585	26°14.61' N	96°21.21' W	102?	6.5	262°	gauges ✓
2013	3/885	26°14.5' N	96°23.0' W	80?	6.5	261°	EPC delay = 100
2030	4/1195	26°14.61' 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	8/2390	26°14.25' N	96°31.88' W	58	6.5	262°	res 2162 gun 2100
2145	10/2700	26°14.16' N	96°33.75' W	54	6.0	263°	ELICS skipped to 09
2200	11/2995	26°14.09' N	96°35.52' W	49	6.25	262°	
2215	12/3295	26°14.02' N	96°37.31' W	48	6.0	263°	gauges ✓
2230	13/3590	26°13.99' N	96°39.04' W	46	6.5	263°	
2245	14/3890	26°13.92' N	96°40.83' W	46	6.75	260°	check check gauges
2300	15/4190	26°13.93' N	96°42.68' 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°	col 19A/sol 19B
0015	02/595	26°13.51' N	96°51.74' W	38	6.5	261°	gpc delay = 0ms 480ms
0030	03/990	26°13.40' N	96°53.108' W	36	6.5	265°	gauges slowing closer to 6.5 kts
0045	04/1185	26°13.39' N	96°55.46' W	34	6.25	266°	new watch BJE
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	96°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°	col 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	97°58.95' W	27	5.5	065°	changed EPC film roll
0215	3/835	26°14.9' N	96°57.5' W	28	5.5	066°	
0219	4/985	26°15.0' N	96°57.1' W	29	5.5	064°	@ WP 95

p27

Notes

gauges ✓ cont. 17A (? trace = 48)

gauges ✓ heading to WP46

gauges ✓

new watch LAB Res 2500
col 17A gun 2400

sol 17B no EPC delay - trace 1024ms
Res gun 2400
2300g
21-2200g
steady
steady
steady
gun 21-2200

elics skip rolling seas ⇒ streamer noise? avoiding shrimp boat

slow to change out gun bearing col 17B
elics backed up! (bk set 3)
note* GPS time is slower than log book time by about 14min + 20s. The log book & EPC time stamp are synched, but the GPS feed into the Elics is different!

heading back to location @ col 17B
sol 17C trace 1024ms, 0 delay EPC (3m data gap)
0ms delay EPC

0940 100ms delay EPC gauges ✓

elics skip! - data looks washed out - H2O depth gauge - slowed down, looks better
1/4 nm from WP 46
col 17C sol 24A - trace 1024, delay 100ms
(in elics 200 18A change)

@ WP 47, to WP 48 EPC - no time, reboot

@ WP 48, to WP 49 gauges ✓
(Res climbed to 2625)

Ellics
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 (grat)</u>	Geophones: <u>17 streamer</u>	Source: <u>15 H₂O 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°	
1130	06/1135	26°31.91' N	96°22.20' W	137	5.5	340°	cont. 24A
1141	07/1135	26°32.88' N	96°22.32' W	147	5.5	004°	gun 2600 No 2600 - wind
1145	08/11435	26°33.30' N	96°22.53' W	146	5.5	323°	@ WP 49, to WP 50
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°	len to WP 50
1230	11/2335	26°37.07' N	96°25.14' W	140	5.75	325°	new watch BJL
1245	12/2635	26°38.37' N	96°26.07' W	140	6.0	322°	
1300	13/2935	26°39.39' N	96°26.68' W	144	6.0	341°	gauges
1315	14/3235	26°41.04' N	96°27.41' W	144	6.0	331°	@ WP 50
1330	15/3535	26°42.45' N	96°28.05' W	146	6.0	331°	Ellics jumped a fix
1345	16/3835	26°43.86' N	96°28.71' W	145	5.75	331°	
1401	17/4150	26°45.21' N	96°29.41' W	142	5.5	356°	@ WP 51
1415	18/4445	26°46.84' N	96°29.77' W	144	6.0	346°	gauges
1430	19/4740	26°48.21' N	96°30.11' W	144	6.5	344°	
1445	20/5040	26°49.71' N	96°30.31' W	142	5.5	345°	gauges
1500	21/5340	26°51.21' N	96°30.51' W	139	5.4	351°	
1515	22/5640	26°51.51' N	96°30.61' W	139	6.3	350°	
1530	23/5945	26°52.61' N	96°30.41' W	141	5.9	000.6°	@ WP 52 col 24A/sol 24B
1545	24/515	26°54.11' N	96°30.21' W	142	5.5	358°	gauges
1600	25/5410	26°55.51' N	96°30.01' W	142	5.3	359°	
1615	26/5715	26°57.21' N	96°29.91' W	142	6.5	009°	possible gas deep
1630	27/6020	26°58.91' N	96°29.71' W	141	6.6	005.1°	on Furuno
1645	28/6325	26°59.91' N	96°29.61' W	138	6.3	359°	depth reader?
1700	29/6630	27°01.71' N	96°28.81' W	142	5.7	017°	@ WP 53
1715	30/6935	27°03.01' N	96°28.21' W	144	6.4	017°	
1730	31/7240	27°04.41' N	96°27.51' W	147	6.3	019°	gauges
1745	32/7545	27°05.04' N	96°27.31' W	148	6.0	023°	
1800	33/7850	27°05.81' N	96°27.31' W	148	5.0	280°	@ WP 21b col R1095-24B
1815	34/8155	27°06.30' N	96°29.61' W	123	6.5	278°	sol MUD 95-15X
1830	35/8460	27°06.61' N	96°31.40' W	110	6.4	279°	gauges
1845	36/8765	27°07.085' N	96°33.11' W	100	6.4	275°	
1900	37/9070	27°07.41' N	96°34.86' W	96	6.0	277°	EPC delay = 0
1915	38/9375	27°07.41' N	96°36.51' W	90	6.2	280°	gauges
1930	39/9680	27°07.83' N	96°38.33' W	86	6.4	270°	
1945	40/9985	27°08.11' N	96°40.01' W	81	6.3	282°	gauges
1955	41/10190	27°08.51' N	96°41.71' W	76	5.9	276°	
2000	42/10495	27°08.91' N	96°43.31' W	72	6.1	278°	gauges

Line name: MUD95-15X 42A,B,C

Energy: J/PSI

Tape #:

Descr: MUD 95

Firing Rate: 3 sec

Filter:

Date: 09-7-95 (GMT) / 09/08/95

Geophones: ITI streamer

Source: 15 H₂Oci

Elics

EPC

no Multon

p 29

Time	SP/Fix	LAT.	LONG.	WD(m)	Ship spd/dir	Nav. system
1953	10/3005	27° 09.0' N	96° 44.2' W	70	6.1 kts	207°
0600	—	28° 09.0' N	95° 50.1' W	34	5.5 kts	051°
0614	—	28° 10.2' N	95° 49.0' W	34	5.5 kts	060°
0617	1/0540	28° 10.1' N	95° 49.1' W	34	7 kts	245°
0630	2/0770	28° 09.8' N	95° 50.8' W	34	6.5 kts	246°
0645	3/1070	28° 09.2' N	95° 52.2' W	34	6.5 kts	246°
0700	04/1370	28° 08.7' N	95° 54.4' W	34	6.8 kts	243°
0715	05/1670	28° 08.1' N	95° 56.3' W	34	7.2 kts	244°
0730	06/1970	28° 07.50' N	95° 58.1' W	34	6.5 kts	245°
0745	07/2265	28° 07.0' N	95° 59.9' W	34	6.4 kts	240°
0800	08/2565	28° 06.3' N	96° 01.1' W	34	6.5 kts	242°
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°
0845	11/3475	28° 04.2' N	96° 06.9' W	35	6.8	241°
0900	12/3775	28° 03.6' N	96° 08.6' 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°
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°
1015	17/5270	28° 00.26' N	96° 17.08' W	35	7.0	248°
1030	0/p	28° 00.00' N	96° 17.78' W	35	7.0	245°
1045	01/165	27° 59.52' N	96° 18.78' W	35	6.0	233°
1100	02/1950	27° 58.7' N	96° 20.38' W	35	6.25	232°
1115	03/0265	27° 57.79' N	96° 22.06' W	35	6.25	230°
1130	04/1065	27° 56.94' N	96° 23.67' W	34	7.5	232°
1142	05/1365	27° 56.02' N	96° 25.29' W	35	6.5	230°
1145	06/1625	27° 55.35' N	96° 26.54' W	34	7.0	220°
1200	07/1670	27° 55.17' N	96° 26.85' W	34	6.5	225°
1215	08/1950	27° 54.13' N	96° 28.22' W	35	7.3	225°
1230	09/2250	27° 53.08' N	96° 29.66' W	35	7.0	225°
1245	10/2545	27° 52.02' N	96° 31.12' W	35	6.75	221°
1300	11/2850	27° 51.0' N	96° 32.51' W	35	6.5	225°
1309	12/3150	27° 49.9' N	96° 34.0' W	35	6.8	228°
1315	13/2375	27° 48.8' N	96° 35.0' W	35	7.0	224°
1330	3/575	27° 47.7' N	96° 36.9' W	35	7.2	222°
1345	4/880	27° 46.6' N	96° 38.2' W	35	6.3	222°
1400	5/1175	27° 45.3' N	96° 39.5' W	35	6.6	216°

Notes

EOL MUD95-15X

going to WP 37

starting turn

heading to WP38 sol 42A

EPC no delay
Elics - 480 ms2520 gun
2400 res2600 gun
2420 res

Mark checked 30

@ WP38 heading to WP39

2600 gun
2400 resMark checked
gaugesres 2520
gun 2400

steady

steady

avoiding rig

steady

@ WP39, to WP40 EOL 42A/ sol 42B

currents slowing us @ max RPM

steady

slowing back to 6.5-7.0 kts

steady

@ WP 40, to WP41

steady

2000 gun
2700 res

gauges ✓

data on Elics got very dark all of a sudden
but EPC OK, so took AEC off of Elics
it helped a bit, but not completely
@ WP41

lots o' rigs

gauges ✓

Line name: <u>R1095-26A, 25A, B, C</u>	Energy: <u>J/PSI</u>	Tape #: <u></u>
Descr: <u>R1095</u>	Firing Rate: <u>35</u>	Filter: <u></u>
Date: <u>09/12/95</u>	Geophones: <u>Masterman</u>	Source: <u>15#20 ci</u>

Beginning wk 4

Elics

EPC

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

p31

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	1/1290	26°58.8'	96°51.0	60	5.3	176	sol R1095-26A at WP54 Elics-base 480ms
1400	2/585	26°57.5'	96°50.98'	59	5.8	174	hdg to WP55 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°52.10	96°51.0	58	5.7	165	at 1430 changed baseline from 1 to 3
1445	6/1492	26°52.1	96°50.8	58	6.2	161	WP55
1500	7/1790	26°51.6	96°50.3	59	5.5	162	heading to WP56 gauges ✓
1515	8/2090	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 ✓
1559	12/2888	26°46.3	96°49.0	59	6.5	173	
1600	13/2992	26°45.7	96°48.7	58	6.4	149	WP56 hdg to WP57 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°41.8	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 on 2690
1745	20/5092	26°35.5	96°44.0	59	5.7	064	WP57 SOL R1095-25B
1757	0/0	26°33.7	96°43.7	60	6.7	059	turn completed
1800	1/182	26°32.0	96°42.9	62	5.5	057	ELICs base - rebooted SOL R25B
1815	2/1785	26°31.0	96°41.4	66	5.8	060	
1830	3/1778	26°28.3	96°40.2	71	6.0	059	gauges ✓
1845	4/1082	26°39.0	96°38.4	77	5.6	060	3-5 ft swells
1900	5/1984	26°39.6	96°37.0	87	6.5	060	< 3 ft swells gauges ✓
1915	6/1681	26°40.32	96°35.4	90	5.6	060	added 100ms delay to EPC at 1836
1930	7/1980	26°40.7	96°34.1	96	4.5	061	slowing down to 5.5 to improve data g ✓
1945	8/2282	26°41.3	96°32.7	101	5.7	060	
2000	9/2582	26°41.9	96°31.3	110	6.0	062	gauges ✓
2004	10/2882	26°42.5	96°29.8	122	5.6	058	gauges ✓
2030	01/165	26°42.5'	96°29.7'	124			sol 25B
2045	02/440	26°43.06'	96°28.54'	141	4.7	059	loss of power - elics died returning to zero
2100	03/745	26°43.6'	96°27.1'	177	6.0	060	began recording @ 2023 sol 25C
2115	04/1045	26°44.2'	96°25.6'	222	4.8	063	@ position where lost power
2130	05/1350	26°44.8'	96°24.2'	286	5.9	058	2110-epc delay 200ms

sum 2655
res 2700

Line name: Rio 95-250, 27A, 18C, 18D Energy: J/PSI Tape #:
 Descr: Rio 95 Firing Rate: 3s Filter:
 Date: 09/12/95 gmt - 09/13/95 gmt Geophones: 11 streamer Source: 15 H₂O ci

EPC
Elics

C = Calculated p32
from seismic

Time	SP/Fix	LAT.	LONG.	WD ^(m)	Ship spd/dir	Nav. system
2136	06/1487	26°45.4' N	96°23.6' W	310	6.1 kG	059°
2144	01/145	26°45.1' N	96°23.6' W	310 ?	5.25	231°
2200	02/456	26°44.1' N	96°24.8' W	252	5.7	221°
2215	03/750	26°43.1' N	96°26.0' W	200	5.5	217°
2230	04/1080	26°42.1' N	96°27.3' W	156	5.9	207°
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°
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°
2343	09/2525	26°37.4' N	96°33.2' W	91	5.5	226°
2350	01/195	26°36.6' N	96°32.8' W	91	5.45	120°
0000	02/330	26°36.19' N	96°32.89' W	98	5.13	137°
0015	03/479	26°35.0' N	96°31.5' W	92	5.9	139°
0029	04/614	26°34.0' N	96°30.6' W	192	5.7	126°
0045	05/1029	26°33.0' N	96°29.6' W	92	5.5	130°
0100	06/1530	26°32.0' N	96°28.6' W	89	5.9	132°
0115	07/1830	26°31.0' N	96°27.6' W	87	5.5	135°
0130	08/2130	26°30.0' N	96°26.6' W	84	5.4	137°
0145	09/2430	26°29.0' N	96°25.6' W	82	5.2	139°
0153	10/2730	26°28.0' N	96°24.6' W	80	5.0	141°
0200	11/3030	26°27.0' N	96°23.6' W	78	4.8	143°
0215	12/3330	26°26.0' N	96°22.6' W	76	4.6	145°
0230	13/3630	26°25.0' N	96°21.6' W	74	4.4	147°
0246	14/3930	26°24.0' N	96°20.6' W	72	4.2	149°
0300	15/4230	26°23.0' N	96°19.6' W	70	4.0	151°
0315	16/4530	26°22.0' N	96°18.6' W	68	3.8	153°
0330	17/4830	26°21.0' N	96°17.6' W	66	3.6	155°
0345	18/5130	26°20.0' N	96°16.6' W	64	3.4	157°
0400	19/5430	26°19.0' N	96°15.6' W	62	3.2	159°
0415	20/5730	26°18.0' N	96°14.6' W	60	3.0	161°
0423	21/6030	26°17.0' N	96°13.6' W	58	2.8	163°
0430	01/125	26°16.0' N	96°12.6' W	56	2.6	165°
0445	02/450	26°15.0' N	96°11.6' W	54	2.4	167°
0500	03/740	26°14.0' N	96°10.6' W	52	2.2	169°
0510	04/940	26°13.0' N	96°09.6' W	50	2.0	171°
0515	05/1030	26°12.0' N	96°08.6' W	48	1.8	173°
0530	06/1325	26°11.0' N	96°07.6' W	46	1.6	175°
0545	07/1625	26°10.0' N	96°06.6' W	44	1.4	177°

Notes
sol 25C / sol 27A turning @ WP58
on line to WP59 gun 2600 res 2700
2226 changed EPC delay to 100ms gun 2600 res 2690
steady
gun 2600 res 2650
@ 59 to WP60 sol 27A / sol 18C face = 800m @ WP60 to WP61
steady
System on Furus broke @ WP61 to WP62 gauges ✓
gauges ✓
WP62 to 63 hdy changed slitting gauges ✓
4-5 ft seas WP63 hdy to 64 gauges ✓
WP-64 hdy to 65 gauges ✓
new watch LAB - heavy seas with trans gauges ✓
Rebooted EPC - no GPS string
sol 18C / sol 18D length = 800m, epc delay = 100ms @ WP65 gauges ✓
5' seas - ughhh!!!
@ WP66, heading to WP67

jettison - must get to shore!!

Line name: Rio 95-18D, 23B, 23C, 23D

Descr: Rio 95

Date: 09/13/95 gmt

Energy: J/PSI

Firing Rate: 3s

Geophones: 17 streamer

Tape #:

Filter:

Source: H₂O 15 ci

Elics
EPC $c = \text{calculated from seismic}$ p.33
no c = furuno
H₂O depth 96.374 WP 24.17 - 10.2'
1.44 96.375 22.5'

Time	SP/Fix	LAT.	LONG.	WD ^m	Ship spd/dir	Nav. system
0545	0/0	26° 08.62	96° 22.44'			
0600	01/235	26° 09.2' N	96° 22.8' W	94C	5.6 kt	015°
0610	0/0	26° 09.9' N	96° 22.5' W	94C		
0615	01/0135	26° 10.03' N	96° 23.1' W	94C	5.4 kt	260°
0630	02/0390	26° 10.0' N	96° 24.6' W	74	5.2 kt	268°
0647	03/0733	26° 10.04' N	96° 26.41' W	71C	5.2 kt	264°
0700	04/0990	26° 10.0' N	96° 27.7' W	71C	5.4 kt	265°
0715	05/1295	26° 10.0' N	96° 29.3' W	71C	5.4 kt	262°
0730	06/1595	26° 10.07' N	96° 30.8' W	71C	5.5 kt	264°
0745	07/1895	26° 10.0' N	96° 32.0' W	65C	5.7 kt	263°
0800	08/2105	26° 10.1' N	96° 33.98' W	56C	6.7/5.4	264°
0815	09/2495	26° 10.0' N	96° 35.6' W	56C	5.4	266°
0830	10/2800	26° 09.9' N	96° 37.2' W	53C	5.8	267°
0845	12/3100	26° 09.9' N	96° 38.8' W	53C	5.5	265°
0900	13/3400	26° 09.9' N	96° 40.3' W	53C/46	6.5	267°
0915	14/3695	26° 09.9' N	96° 41.9' W	46	6.5	264°
0930	15/3992	26° 10.01' N	96° 43.59' W	44	6.5	263°
0945	17/4300	26° 10.0' N	96° 45.4' W	49C	7.4	256°
1000	18/4595	26° 09.86' N	96° 49.3' W	45C		
1015	19/4895	26° 09.9' N	96° 48.7' W	45C	6.3	265°
1030	01/0	26° 09.9' N	96° 49.0' W	45C	6.2	266°
1037	02/1245	26° 09.9' N	96° 50.3' W	39	6.1	265°
1045	03/1420	26° 10.0' N	96° 51.2' W	38	6.7	265°
1100	04/550	26° 10.0' N	96° 52.0' W	38	6.3/6.4	261°
1100	04/845	26° 10.06' N	96° 53.7' W	35	6.3 kt	269°
1115	05/1150	26° 10.0' N	96° 55.3' W	27	6.5 kt	264°
1130	06/1445	26° 10.1' N	96° 57.0' W	26	5.5 kt	277°
1145	08/1750	26° 10.1' N	96° 58.16' W	26	5.8 kt	259°
1200	09/2050	26° 10.1' N	97° 00.1' W	26	5.2 kt	269°
1214	10/2345	26° 10.2' N	97° 01.5' W	23	6.2 kt	261°

Notes

sol 2418D/sol 23B

sol 23B/sol 23C new WP67

heading new WP68 gauges ✓

gauge Mark ✓ swell (from Hurricane) + 5' seas

gauge Mark ✓

gun 2000 res 2300 ✓

steady ✓

elics skipped ✓ heading shrimp boat

LS boat check ✓

elics skipped ✓

gun 2000 res 2630 ✓

off course 90° - turning back on

steady ✓

sol 23C/sol 23D (180ms) 1.9m from WP68 back on

@ WP68, to WP69

steady

steady

elics skipped gauges ✓

1nm to WP69

@ WP69, sol 23D, pulling gear

heading into 100 to Port Mansfield →

BAD weather - swell + 5' seas

15-20kt winds

