OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

Mattick

[redacted]
Envelope
GYRE 83-14 A

830130b1

DFS V

Log Sheets

Line # 1

1 OF 3

83-14
GYRE 103580

28

Gyre 83-14
Mattic
DFS V
Log Sheets
Line #1

83013061

(1)

U.S. GEOLOGICAL SURVEY

DFS V LOG

VESSEL RV - Gyre CRUISE NO. 83-14 DATE 11-4-83 JD 308

SHOT INTERVAL (DISTANCE) 25 m OR TIME _____ sec.

OFFSET 145 m PRIME NAVIGATION WINS Satellite - Loranc

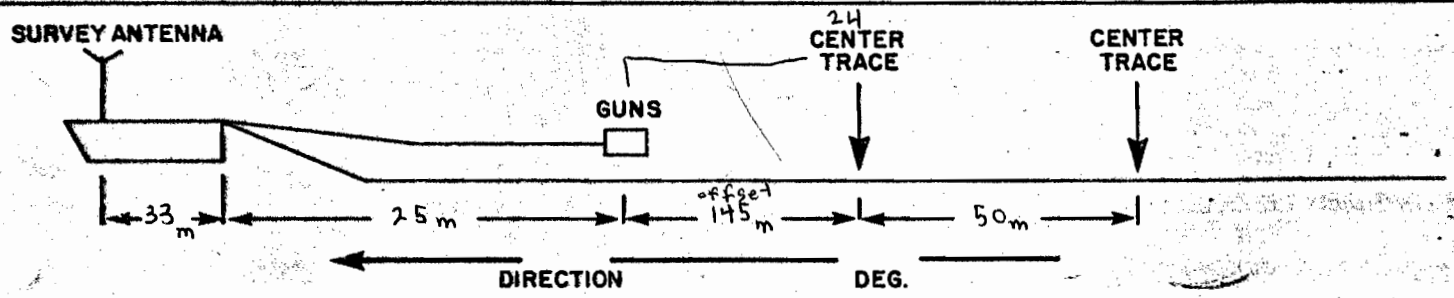
LINE NO. 1 DIR. ____ DEG. CABLE TYPE 24 CH

LOCATION OCS - TEX TRACE INT. 50 m

SAMPLE RATE 2 MS. BPI 1600 SEG B FORMAT Yes

RECORD LENGTH 5 sec. EXTENDED HEADER START WORD _____

SOUND SOURCE 2 water gus cu. in. @ 2000 psi @ 4 depth (m)
400 each 800 total



RECORD				REPRODUCE				
INPUT GAIN (500 OHM IMP)	FILTERS LO/SLOPE	FILTERS HI	MAN / FP	FILTERS LO	FILTERS HI	TRIP SENSE	INITIAL GAIN	MODE
28	out ~~8/18~~	128		out	128	3	4	AGC

DECK NO.	REEL NO.	CONSTANTS DAY NO.	CONSTANTS LINE NO.	CONSTANTS DIR. DEG.	FILE NO. FROM	FILE NO. TO	SP NO. FROM	SP NO. TO	TIME START	TIME FINISH
1	1	308	001	248	001	210	001	210	1650	1744
2	2			247	211	421	211	421	1744	1830
1	3				422	631	422	631	1830	1916
1	4				632	842	632	842	1916	2002
1	5	308	001	249	843	1052	843	1052	2002	2043
2	6	308	001	253	1053	1255	1053	1255	2043	2125
~~1~~	~~7~~				~~1256~~		~~1256~~		~~2132~~	
(1256 - 1288		Data Missing)			(1256 - 1288		missing)			
1	7	308	001	253°	1289	1499	1289	1499	2132	2218
2	8	308	001	254°	1500	1709	1500	1709	2218	2302
1	9	308	001	253°	1710	1918	1710	1918	2302	2345
2	10	308	001	254°	1919	2129	1919	2129	2345	0028
1	11	309	001	254	2130	2325	2130	2325	0028	0106
1	12			281°	2326	2535	2326	2535	0547	0625
2	13	309	01		2536	2746	2536	2746	0625	0701
1	14	309	01	247°	2747	2956	2747	2956	0701	0736

(2)

U.S. GEOLOGICAL SURVEY

DFS V LOG JD 309

VESSEL RV-Gyre CRUISE NO. 83-14 DATE 11-5-83

SHOT INTERVAL (DISTANCE) 25 m OR TIME _____ sec.

OFFSET 145 m PRIME NAVIGATION Sat. - Loran C

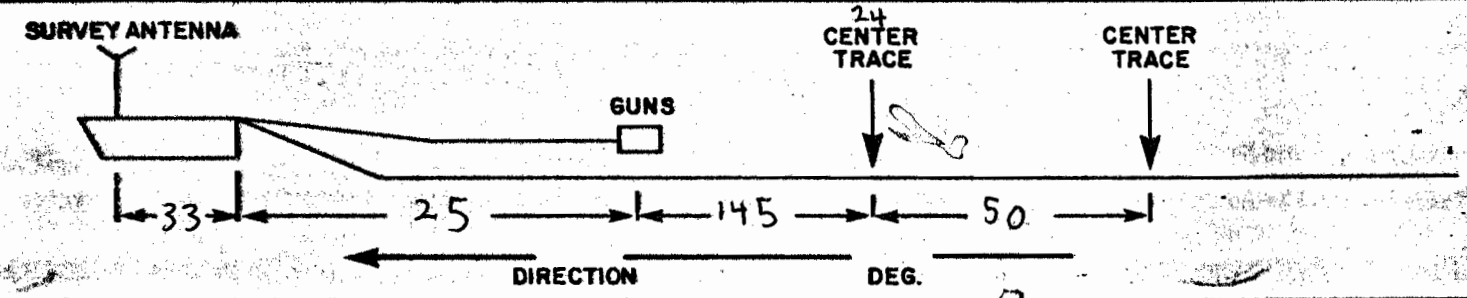
LINE NO. 1 DIR. _____ DEG. CABLE TYPE 24 CH

LOCATION OCS TRACE INT. _____

SAMPLE RATE 2 MS. BPI 1600 SEG B FORMAT Yes

RECORD LENGTH _____ EXTENDED HEADER START WORD _____

SOUND SOURCE 2 air gus cu. in. @ 2000 psi @ 4 depth (m)
@ 540 each



RECORD				REPRODUCE				
INPUT GAIN (500 OHM IMP)	FILTERS LO/SLOPE	FILTERS HI	MAN / IFP	FILTERS LO	FILTERS HI	TRIP SENSE	INITIAL GAIN	MODE
2^8	~~8~~ 18 out	128		out	128	3	5	AGC

DECK NO.	REEL NO.	CONSTANTS DAY NO.	CONSTANTS LINE NO.	CONSTANTS DIR. DEG.	FILE NO. FROM	FILE NO. TO	SP NO. FROM	SP NO. TO	TIME START	TIME FINISH
2	15	309	001	247	2957	3168	2957	3168	0736	0811
1	16	309	001	252	3169	3378	3169	3378	0811	0846
2	17	309	001	255	3379	3590	3379	3590	0846	0920
1	18	309	001	254	3591	3799	3591	3799	0920	0955
2	19	309	001	254	3800	4011	3800	4011	0955	1032
1	20	309	001	253	4012	4219	4012	4219	1032	1110
2	21	309	001	254	4220	*4430	4220	*4430	1110	1145
1	22	309	001	253	*4431	4633	*4431	4633	1145	1223
2	23	309	001	253	4634	4837	4634	4837	1223	1257
1	24	309	001	250	4838	5040	4838	5040	1257	1330
2	25	309	001	250	5041	5151	5041	5151	1330	1349
								EOL	Line	2

* APPROXIMATE

OBSERVER'S MARINE REPORT

Tail Buoy 20° off

VESSEL RV - Gyre DATE 11-4-83 JD 308 #1

Client	USGS / Mattick	Type instrument	DFS V	Offset distance	145 m.
Area	OCS	Record filter	0 - 128 Htz	Group interval	50 m
State	Tx	Sample rate	2 ms	Fold coverage	24
Observer	Wise / Owen	gun depth	20 ft	In.³ of guns	800

Pre-plot	Shotpoint	File No.	NBS Time	#1 dir.	Meters Cable Depth	W.D.	Reel No.	Line No.	Remarks
JULIAN	1	001	1650	248	6/5.8/6/6	20	1	1	SOL - 1 Trace 15 off
308	162	162	1730	248		20	1	1	weather fair Seas 1-3 ft.
1800	211	211	1744				1/2	1	shrimp boat in area SP 155-170
SHIFT CHG	290	290	1800	245	5.8/5.8/5.8/6	20	2	1	ON Line #1 TB 200°
OWENS/	421	421	1830	245	5.6/5.4/5/6	20	2/3	1	TB 200°
ZIHLMAN	449	449	1836				3	1	Trace 17 off.
	547	547	1900	243	5.6/6/6/6.2	20	3	1	On Line 1 TB 190°
	632	632	1916				3/4	1	
	678	678	1930	245	5.6/7/7.2/6.6	20	4	1	On Line 1 TB 185°
	678	678	1930						ONE WATER GUN LOST THE
									AIR DISCHARGE HOSE
	737	737	1941						STB WATER GUN
									OFF LINE - SHOOTING
									W/PORT GUN ONLY
	828	828	2000	251	6/6.6/7.2/6.6	20	4	1	ON Line 1 TB 185°
	983	983	2030	250	6/6.6/7.2/6.4	21	5	1	ON Line 1 TB 190°
LE	843	843	2002				4/5		Chg Tape
	1003	1003	2033						Chg to STB 540 Air Gun only
	1134	1134	2100	252	5.8/6.4/6.6/6.4	19	5	1	ON Line 1 TB 190°
	1169	1169	2107	253	—	—	5	1	TRACE 1 off 15 & 17 still off
	1256 -	1288	Missing - DATA		Lock -		Reset	AT	Tape 6 @ 2132
	1345	1345	2145	253	5.6/6.4/6.8/6	20	6	1	ON Line 1 TB 190°
SHIFT	CHG - PATTERSON/LEINBACH		2200						TB 1°
	1416	1416	2200	254	5.6/6.4/6.8/6.2	20	7	1	TB 190°
	1500	1500	2218	254			8	1	REEL CHG #8 FSP 1500
	1555	1555	2230	253	5.8/6.0/6.4/6.0	20	8	1	T.B. 185°
	1698	1698	2300	253	5.6/6.4/6.8/5.8	21	8	1	TB 185°
	1710	1710	2302				9	1	REEL CHG #9 FSP 1710
	1843	1843	2330	253	5.6/6.0/6.4/5.8	22	9	1	
	1919	1919	2345	254			10	2	REEL CHG #10 FSP 1919
JULIAN	1990	1990	2400	251	5.4/6.2/6.4/6.2	21	10	2	T.B. 190°
309	2130	2130	0028	254			11	1	REEL CHG #11 FSP 2130
	2139	2139	0030	254	5.6/6.6/7.2/6.6	22	11	1	T.B. 190°
	2294	2294	0100	254	5.4/6.6/7.4/6.6	22	11	1	T.B. 185°
			0106						CIRCLE TO CHG TO 2 A.G.
									END OF TAPE LSP 2325
		Wise/Owen							Guns down Boat circle
SHIFT	CHANGE		0150						

OBSERVER'S MARINE REPORT

11-5-83 #2

VESSEL RV/GYRE DATE ~~11-4-83~~ JD 309

Client	USGS	Type instrument	DFS V	Offset distance	145 m.
Area	Galveston	Record filter	0-128	Group interval	50 m
State	TX	Sample rate	2ms	Fold coverage	24
Observer	WISE/Wells/Owen/Zihlman [redacted]	gun depth	20 ft.	In.³ of guns	800

Pre-plot	Shotpoint	File No.	Time (NBS)	#1 dir. (°)	Cable Depth	meters W.D.	Reel No.	Line No.	Remarks
			02:00						Down guns in circle to come
W+W			↓						back on line
			03:00						in circle
			04:00						in circle - Testing guns
			04:30						in circle - SOL appx 1 hour - guns OK
	2326	2326	05:47	281°	5.0-6.0-7.1-6.5	23	12	1	Shooting #1 dir → still coming on line
↓	2393	2393	06:00		5.0-6.4-7.0-6.4	23	12	1	ON Line #1 Note: Trace 1,15,17 [illegible]
O+Z	2448	2448	6:10	261	—	—	12	1	C/C Tug (will be a little off line
↓	2535	2535	0625	—	—	—	12/13	1	chg Tape
	2562	2562	0630	258	5/6.4/7/6.4	23	13	1	ON Line 1 TB = 180°
	—	—	0634	—	4" of Tape	#12	Broke off	after BOT	First few 24 inches past BOT mark inches of Tape 12 broke
	2740	2740	0700	247	5/6.4/7.2/6.6	24	13	1	ON Line 1 TB = 180
	2746	2746	0701	—	—	—	13/14	1	chg Tape
	2920	2920	0730	248	4.8/6.4/7.2/6.4	24	14	1	ON Line 1 TB = ? Mon. Out
	2957	2957	0736	247	—	—	14/15	1	chg Tape
	3100	3100	0800	251	4.8/6.4/6.8/6.4	24	15	1	ON Line 1
	3169	3169	0811	252	—	—	15/16	1	chg Tape
	3281	3281	0830	256	4.6/6.2/6.8/6.4	22	16	1	ON Line 1 TB Mon. still Out
	3379	3379	0846	255	—	—	16/17	1	chg Tape
	3465	3465	0900	255	5/6.4/7/6.4	22	17	1	ON Line 1
	3591	3591	0920	254	—	—	17/18	1	chg Tape
	3648	3648	0930	256	4.8/6.2/7/6.4	21	18	1	ON Line 1
	3800	3800	0955	254	—	—	18/19	1	chg Tape
LE	@ SP	3783	noticed	that	Port	Gun	was	Down	
	3834	3834	1000	256	4.8/6/6.8/6.2	22	19	1	ON Line 1 Port Gun Down
			1000						SHIFT CHG - PATTERSON
	4011	4011	1030	253	5.0/6.4/6.8/6.9	22	20	1	& LEINBACH
	4012	4012	1032	253					REEL CHG. #20, FSP 4012
	4161	4161	1100	254	5.4/6.4/6.8/6.4	22	20	1	NO T.B.
	4331	4331	1130	252	5.2/6.2/6.6/6.0	22	21	2	NO T.B.
	4431*	4431*	1145	* APPROXIMATE		MISSED	T.B.		REEL CHG. FSP 4431 #22
	4499	4499	1200	254	5.4/6.2/6.8/6.0	25	22	1	NO T.B.
	4675	4675	1230	254	5.2/6.2/6.8/6.0	25	23	2	
L.E.	4634	4634	1223						REEL CHG #23 FSP 4634
	4838	4838	1257				24	1	REEL CHG #24 FSP 4838
	4856	4856	1300	250	5.0/6.0/6.8/6.4	26	24	1	NO T.B.
	5041	5041	1331	250			25	2	REEL CHG #25 FSP 5041
	5050	5050	1332	250	5.0/6.2/6.4/6.2	22	25	2	

OBSERVER'S MARINE REPORT

VESSEL R/V GYRE DATE 11/5/83 J.D. 309 # 3

Client	USGS	Type instrument	DFS V	Offset distance	145 M
Area	GALVESTON	Record filter	0-128 HZ	Group interval	50 M
State	TX	Sample rate	2 MS	Fold coverage	2400
Observer	PATTERSON/LEINBACH	gun depth	12 FT	In.³ of guns	540

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
			~~1400~~				25	1	NO T.P.
	1349	1349	1349						E.O.L.