OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

INT-413

U.S.MAIL

G

830130b7

Gyre 83-14/Mattrick
DFS V Log Sheets
Line GMT-12
GMT-13

4 OF 4

28

103586

envelope

Gyre 83-14, Mattick

DFS V Log Sheets

Lines GMT-12

GMT-13

U.S. GEOLOGICAL SURVEY

83013067

DFS V LOG

JD 322

VESSEL R/V GYRE CRUISE NO. 83-14 DATE 11-18-83

SHOT INTERVAL (DISTANCE) 300 ~~255~~ m OR TIME 60 sec.

OFFSET 255 m PRIME NAVIGATION WINS. / LORAN C

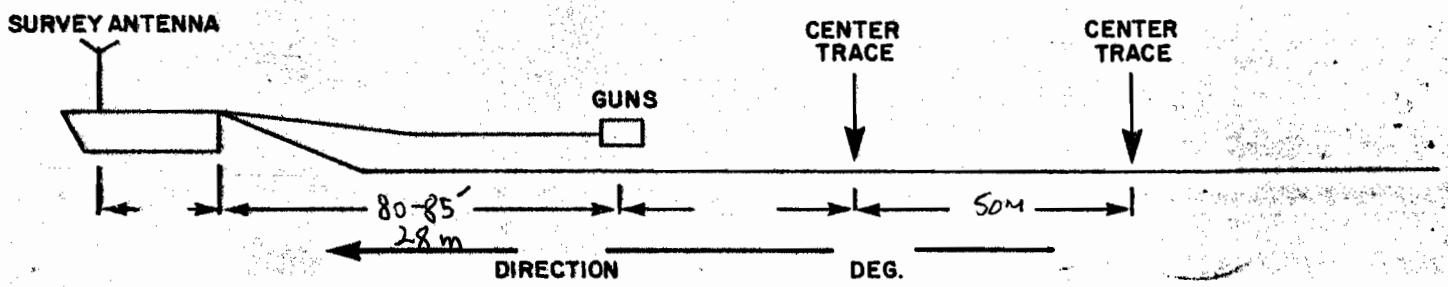
LINE NO GMT12 ESP5 DIR. ____ DEG. CABLE TYPE 24 CH

LOCATION Offshore Texas Tx OCS TRACE INT. ____

SAMPLE RATE 4 MS. BPI 1600 SEG B FORMAT Yes

RECORD LENGTH 12 Sec. EXTENDED HEADER START WORD ____

SOUND SOURCE 2 X 2000 cu. in. @ 4000 psi @ 28 depth (m)



RECORD				REPRODUCE				
INPUT GAIN (500 OHM IMP)	FILTERS LO/SLOPE	FILTERS HI	MAN / IFP	FILTERS LO	FILTERS HI	TRIP SENSE	INITIAL GAIN	MODE
28	out	64	IFP	out	64		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
1	149	322	GMT-12	ESP5	001	185	001	185	14:46	17:50
2	150	322	GMT-12	51°	186	371	186	371	17:50	2056
1	151	322	GMT-12		372	554	372	554	2057	0000
									EOL	GMT-12

U.S. GEOLOGICAL SURVEY

JD 323
11-19-83

DFS V LOG

VESSEL GYRE CRUISE NO. 83-14 DATE 11-18-83

SHOT INTERVAL (DISTANCE) 300 m OR TIME 60 sec.

OFFSET Two Data Sets Two offsets * m PRIME NAVIGATION Wins/Loranc

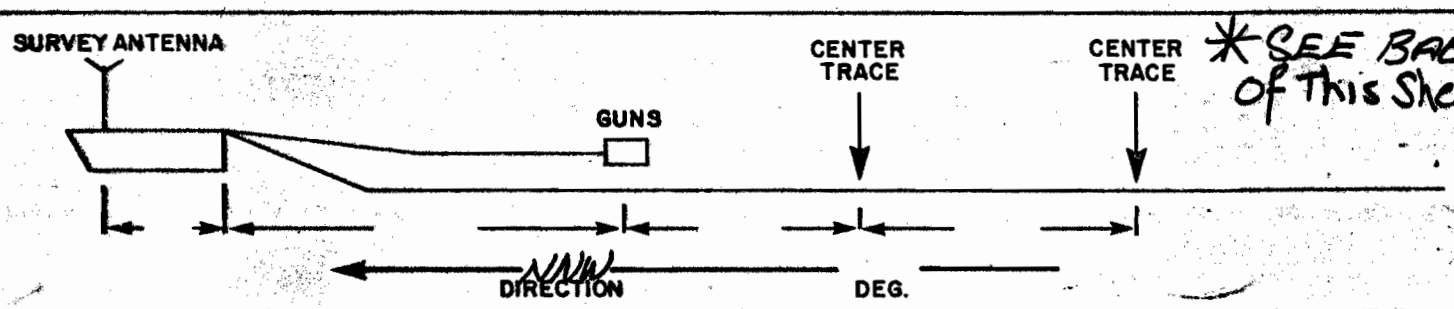
LINE NO. GMT-13 DIR. ____ DEG. CABLE TYPE 24 chan

LOCATION ____ TRACE INT. 50 m

SAMPLE RATE 4 MS. BPI ____ SEG B FORMAT ✓

RECORD LENGTH 20 Sec. EXTENDED HEADER START WORD ____

SOUND SOURCE 2 2000 cu. in. @ 4000 psi @ ____ depth (m)



SEE BACK OF THIS SHEET

RECORD				REPRODUCE				
INPUT GAIN (500 OHM IMP)	FILTERS LO/SLOPE	FILTERS HI	MAN / IFP	FILTERS LO	FILTERS HI	TRIP SENSE	INITIAL GAIN	MODE
20	Out	64	IFP	Out	64	✓	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
1	152	323	GMT 13	300°	001	116	001	116	0543	0643
2	153	323	GMT 13	347 Start	117	227	117	227	0643	0738
1	154	323	GMT-13	337 Start	228	340	228	340	0738	0834
2	155	323	GMT-13	337 Start	341	454	341	454	0834	0931
1	156	323	GMT-13	342 Start	455	568	455	568	0931	1029
2	157	323	GMT-13	342	569	681	569	681	1029	1125
1	158	323	GMT-13	340	682	794	682	794	1125	1221
2	159	323	GMT-13	340	795	908	795	908	1221	1318
1	160	323	GMT-13	332	909	992	909	992	1319	1400

OBSERVER'S MARINE REPORT

JD-322 # 1

VESSEL Gyre 83-14 DATE 11-18-83

Client USGS/Mattick Type instrument DFS V Offset distance 255

Area OCS Record filter out -64 Group interval 50 m

State TX Sample rate 4ms Fold coverage 4

Observer Wise/Wells gun depth in of guns 4000

LEAKAGE on channels: 1 = 1 mega Ω, 2 = 22 kΩ, 3 = 22 kΩ, 12 = 1 mega Ω, 15 = Dead (leakage → gnd), 20 = 1 mega Ω, 21 = 40 kΩ, 22 = 6 mega Ω

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
1	001	001	14:46	112°	8.8-12.0-12.4-11.6	3155	149	GMT-12	SOL GMT-12
1	015	015	15:00	102°	9.2-11.6-12.6-11.6	3158	149		File 5 Radio interference
1	045	045	15:30	117°	8.4-10.6-12.2-10.8	N/G	149		File 6-8 Radio interference. TB 175°
1	075	075	16:00	112°	8.2-10.6-10.8-10.4		149		TB 175° File 9 Radio Noise
1	105	105	16:30	112°	8.2-11.2-11.4-10.6				TB 175° Port GUN off
1	135	135	17:00	104°	8.8-10.8-11.2-10.8				TB 175° Both GUNS on 16:44
	165	165	17:30	106°	8.0-11.8-11.2-10.8				TB 175°
	195	195	1800	104	8.4/10.4/10.6/10.8	NA	150	GMT-12	watch chg to Owen/Zihlman TB=175°
			1812	108			150	GMT-12	slow one knot
*	225	225	1830	109	12.4/9.8/7.8/9.2	NA	150	GMT-12	TB=170°
	255	255	1900	128	11.6/9.4/9.2/9.8	NA	150	GMT-12	TB=175°
			1912						Moore underway again
	285	285	1930	122	12.6/9.6/7.6/9.4	NA	150	GMT-12	TB=180°
	315	315	2000	130	8.6/10.2/10/10.2	NA	150	GMT-12	TB=175°
			2010						Moore recording our shots
	345	345	2030	80	7.6/10.4/11.2/11.6	NA	150	GMT-12	TB=185°
	346	346	2031						Gyre @ Midpoint
	372	372	2057	51°			150/151	GMT-12	chg tape
	375	375	2100	45°	8.2/10.6/11.2/12	NA	151	GMT-12	TB=185°
			2119						C/C 090 increase speed
	405	405	2130	90°	7.6/9.8/10/10.4	NA	151	GMT-12	TB=170°
									S.P. 449 Nav computer
									malfunction S.P. stuck
									on 439
									463 S.P. matched back
									with file #'s
	495	495	2300	90°	7.6/10/10.6/11	?	151	GMT-12	TB=170
	527	527	2332		8.0/10.0/10.8/10.8		151	GMT-12	STBD. Gun Down
									~~Port~~ STBD Gun back
	554	554	333/0000				151	GMT-12	EOL GMT+12

* Moore range (29.7 Km Mini Ranger) - Moore stops to work on cable

OBSERVER'S MARINE REPORT

JD 323
11-1983 #1

VESSEL Gyre 83-14 DATE 11-18-83

Client	USGS TAMU	Type Instrument	DFS V	Offset distance	See Note
Area	Offshore Texas	Record filter	out-64	Group Interval	50m
State	International Waters	Sample rate	4ms	Fold coverage	4/4 ?
Observer	Wise/Wells	gun depth	28m	In.³ of guns	2X2000

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
1	001	001	0543	340°	7.6-12.4-12.6-11.0	2036	152	GMT13	*SEE Rev. of Marine log TB 175°
									#Files 2→20 No INFO on time/offset
	33	33	0600	348°	9/10.2/11.2/10.4	1967	152	GMT-13	chg. watch to Owen/Zinlman TB = 180
			0611	342°			152	GMT-13	cut speed ½ knot Range 12478
	92	92	0630	344	9/8.4/9.8/10.6	1903	152	GMT-13	Rng 12302 TB = 180°
	117	117	0643	347			152/153	GMT-13	chg Tape
	151	151	0700	346	8.2/6.8/9.4/11.2	1882	153	GMT-13	Rng 11Km TB = 175°
	211	211	0730	341	7.6/8.6/10.2/12	1805	153	GMT-13	Rng 11429m TB = 180.0°
	228	228	0738	337			153/154	GMT-13	Chg Tape
	272	272	0800	343	5.8/9.2/10.4/11.8	1875	154	GMT-13	Rng 11256 TB = 175°
	332	332	0830	339	10/10.4/9.2/9.8	1781	154	GMT-13	Rng 11470 TB = 175°
	341	341	0834	337			154/155	GMT-13	Tape Change
	392	392	0900	342	7.2/10.2/10.8/11.8	1688	155	GMT-13	Rng 10906m TB = 175°
	452	452	0930	340	6.8/9.6/10.2/10.2	1580	155	GMT-13	Rng 10503m TB = 175°
	455	455	0931	342			155/156	GMT-13	chg Tape
	496	496	0952				156	GMT-13	ITB
	513	513	1000	337	6.6/10.8/11.0/9.0		156	GMT-13	RNG 10025 TB = 175°
	555	555			5.4/8.0/10.4/10.4				Rng 9905 INPUT Gain → 4
	*568/569	568/569	1029	342	5.4/7.0/5.0/9.6	1600	156/157		Rng 9953 * MAY Be off by 1 File ??
	630	630							TAPE Read error
	632	632	1100		6.0/8.8/11.4/10.6		157	GMT-13	Rng 10280
	681/682	681/682	1125				157/158		ITB & Tapechange
	696	696	1132	339	6.4/10/10.6/10.8	1450	158	GMT-13	Rng 10700
	706,708	706,708,710,712							ITB's - Port Gun acting up - Blast
	720,742								Phone Dying & gun losing pressure
	752	752	1200	330	5.6/8.4/9.6/10.4	1390	158	GMT-13	Rng 11,200 TB = 180
	766	766	1207		6/8.8/7.6/8.8				Rng 11300
	794/795	794/795	1221		6.6/10/11/11		158/159	GMT-13	Rng 11250
	846	846	1247		5.6/8.2/9.4/9.2				Rng 11130
	872	872	1300	332	6.4/8.4/7.6/7.8		159	GMT-13	Rng 11030 TB = 180
	908/909	908/909	1318		7.2/9.4/11.0/11.6		159/160		Rng 10890
	916,928,936,946								ITB's (others also but not noticed)
	935 → EOL								"IN" overdrive input amps & streamer noise
	986				5.4/8.2/9.8/10.2		160		
	992		1400					GMT-13	EOL GMT-13