OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

U.S. DEPARTMENT OF THE INTERIOR
INT-413

U.S.MAIL

LE

83013065

Gyre - 83-14/Mattick

Lines GMT-3, GMT-3B, GMT-3C

DFS V Log Sheets

2 OF 4

28

103584

envelope
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Gyre 83-14 / Mattick

Lines GMT-3, GMT-3B, GMT-3C

DFS V Log Sheets

U.S. GEOLOGICAL SURVEY

83018065

DFS V LOG JD 318

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

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

OFFSET 255 m PRIME NAVIGATION Loran C

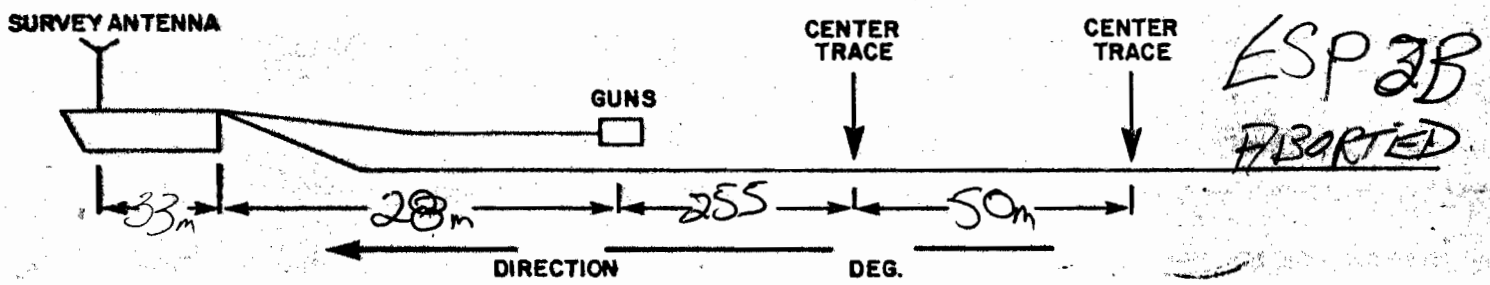
LINE NO. GMT-3 DIR. ____ DEG. CABLE TYPE 24 Channel

LOCATION Tx OCS TRACE INT. 50 m

SAMPLE RATE 4ms MS. BPI ____ SEG B FORMAT Yes

RECORD LENGTH 12 (Tapes 123 & 124) 40 (Tapes 125) EXTENDED HEADER START WORD ____

SOUND SOURCE 4000 cu. in. @ 2000 psi @ ____ 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		OUT	64	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
1	123	318	GMT-3	101	001	186	001	186	2015	318/2320
2	124	318	GMT-3	104	187	309	187	309	2321	319/0123
1	125	319	Start of ESP Work		310	334	310	334	0123	02:19
		* LINE GMT3 ESP 2B *			New	PAGE				

U.S. GEOLOGICAL SURVEY

DFS V LOG

(2)

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

SHOT INTERVAL (DISTANCE) ~~Varied~~ m OR TIME 60 → sec.

OFFSET Varied m PRIME NAVIGATION Loranc

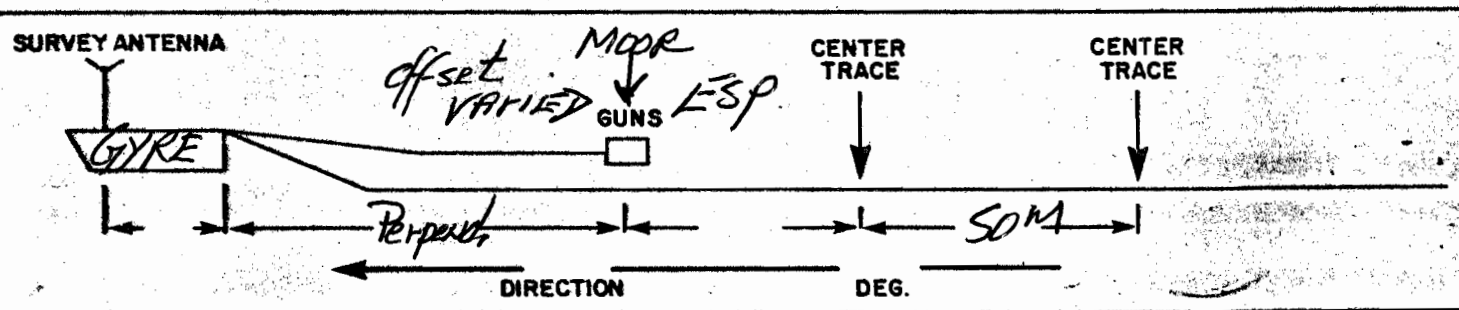
LINE NO. GMT-3 Esp2c DIR. DEG. CABLE TYPE 24 chan

LOCATION offshore Tx TRACE INT. 50 meters

SAMPLE RATE 4 MS. BPI 1600 SEG B FORMAT ✓

RECORD LENGTH 40 s. EXTENDED HEADER START WORD

SOUND SOURCE Moore cu. in. @ psi @ 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	3	6	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	126	319	GMT3-~~Esp2c~~ C		341	400	341	400	0601	0700
2	127	319	GMT3C	96	401	468	401	468	0710	0808
1	128	319	GMT 3C	85	469	526	469	~~469~~ 526	0808	0906
2	129	319	GMT 3C		527	584	527	584	0906	1004
1	130				585	642	585	642	1004	1102
2	131				643	652	643	652	1102	1103
										E.O.L

OBSERVER'S MARINE REPORT

VESSEL Gyre DATE JD 318/319 11-14-83 #1

Client USGS / Mattick Type Instrument DFS V Offset distance 255m

Area OCS Record filter OUT-64HZ Group Interval 50m

State Tx Sample rate 4 ms @12 sec Re Fold coverage ≠4 fold

Observer * Gulf wire blast to FTB = 42 msec; wire blast to ITB = 128 ms; FTB to ITB = 86 msec gun depth 30' In.³ of guns 2000 X 2

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
	1	1	2015	101	12.8/11/11/11.8	223	123	GMT-3	SOL GMT-3 TB=180°
	16	16	2030	105	12.6/11.2/11.2/11.8	315	123	GMT-3	Sea state 4 to 6' TB = 180°
	37	37	2051				123	GMT-3	ITB* (3 shots missed) 37-38-39
	46	46	2100	103	12.2/11/11/11.6	353	123	GMT-3	TB = 180°
	55	55	2109				123		ITB*, STARBRD GUN OFF LINE
	62	62	2116				"	"	Sth- Gun back on line
	76	76	2130	103	13.8/11.2/10.6/12	361	123	GMT-3	TB=180
	83 [redacted]	[redacted] 83	2137						ITB* 83-84 85 86 87 missed
	88	88	2142				123	GMT-3	88 OK operational
	90	90	2144						ITB~90
	91	91	2145						operational again
	106	106	2200	106	15.6/11.2/10/11.8	348	123	GMT-3	TB=180°
	137	137	2231	108	14.4/11.2/10.8/12	380	123	"	TB=180°
	146,7	146,7	2239,40						Both Gun misfires 146, 147 ; ITB for shots 145 thru 149
	148	148	2241						Portgun Fire, STBD off
	159	159	2253						Bad Trace - Tape read error
	166	166	2300	105	15.2/11.2/10.8/11.4	400	123	GMT-3	TB=180
	186/187	186	2320				123/124		Change tape T
	197	197	2331	109	18.8/11.6/10.2/10.8	415	124	GMT-3	TB=180
	203	203	2337						TAPE Read error
	211	211	2345						STBD GUN ON : Both guns now on
	224	224	2358						" " misfiring
	226	226 319	0000	107	17/11.2/10.4/11.2	425	124	GMT-3	TB=180
	256	256	0030	108	16.8/11.2/10.8/11.4	425	124	"	TB=180
	274-277	274-277	VAR						ITB :
	277	277	0051						Missed 1 shot STBD GUN OFF
	278	278	0052						TAPE Read error
	286	286	0100	104	16.4/12/10.6/11.2	390	124	GMT-3	TB=180
	296	296	0110						STBD Gun BACK ON TB=180
	304	304	0118						TAPE READ ERROR
	308	308	0122					GMT-3	Last shot on TAPE c̄ seismic
	309	309	0123				124		Last " " " without seism
		Change to 40 sec Record - Listen only							Moore wire blast to Gyre FTB = 68 msec
	310	310	0140:29		8/10.8/11.4/12		125	GMT-3	First Moore shot
	311	311	0145:29		8.2/10.4/11.6/11.8				missed several Moore shots
	312	312	0147:00						First 30+ sec of each File (312-319) is BLANK
	320	320	0155:00				125	GMT-3	Moore now firing on minute
	325	325	0200:00	106		253	125	GMT-3	TB=165

OBSERVER'S MARINE REPORT

JD 319 # 2

VESSEL Gyre 83-14 DATE 11-15-83

Client	USGS / Mattick	Type instrument	DFS V	Offset distance	var.
Area	OCS	Record filter	out 64	Group interval	50
State	Tx	Sample rate	4 ms	Fold coverage	4
Observer		gun depth		In.³ of guns	Moore

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
	334	334	0209	106			125	GMT 3	END LINE, START CIRCLING, END TAPE
									chg watch 0600 — owen/zihlman
	341	341	0601	75	11.8/10.8/10.8/12.2	388	126	GMT 3C	SOL GMT-3C
	370	370	0630	84	12.4/10.8/10.8/11.6	333	126	GMT 3C	TB = 180°
	373	373	0633				126	GMT 3C	sync SP and File move file up 1
	401	401	0700	89	12.2/11.2/11/11.6	333	126/127	GMT3C	chg Tape 226 to 127 TB = 180
	401	401							401 - 410 BAD FILES / TAPE ERROR
	411	411			Tape Transport		Runaway		1 st GOOD FILE AFTER ERROR
	413	413	0710						PARITY ERROR
	431	431	0730	93	14.6/11.2/10.8/11.4	340	127	GMT3C	TB = 180°
	442	442	0741						PARITY ERROR #98
	461	461	0800	96	12.8/11.2/11/12	388	127	GMT3C	TB = 175°
	469	469	0808	96			127/128	GMT3C	chg Tape
	491	491	0830	93	12.4/10.8/10.6/11.6	365	128	GMT3C	TB = 175°
	521	521	0900	86	13.2/11.2/10.6/11.4	313	128	GMT3C	TB = 180°
	527	527	0906				128/129	GMT3C	chg Tape
	551	551	0930	83	12.4/11.2/10.8/11.6	271	129	GMT3C	TB = 185°
	581	581	1000	86	13.2/11.2/10.4/11.6	225	129	GMT3C	watch chg to Jim and Allen TB = 180°
	611	611	1030	89	12.4/11.2/10.4/11.6	232	130	GMT3C	File 611 was last on
	641	641	1100	88	13.6/11.6/11.0/11.8	231	130	GMT3C	line E.O.L