OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

INT 413

Gyre 83-14 / Mattick

830130b3

envelope "C"

Line # 3

DFS V Log Sheets

3 of 3

83-14
GYRG 103582
83013

envelope "C"

Gyre 83-14 / Mattick

Line 3

DFS V Log Sheets

83013063

U.S. GEOLOGICAL SURVEY

DFS V LOG

VESSEL R/V Gyre CRUISE NO. 83-14 DATE 11/9/83

①

SHOT INTERVAL (DISTANCE) 50 m OR TIME _____ sec.

OFFSET Guns to Near Trace m PRIME NAVIGATION WINS - Loran "C"/Sat

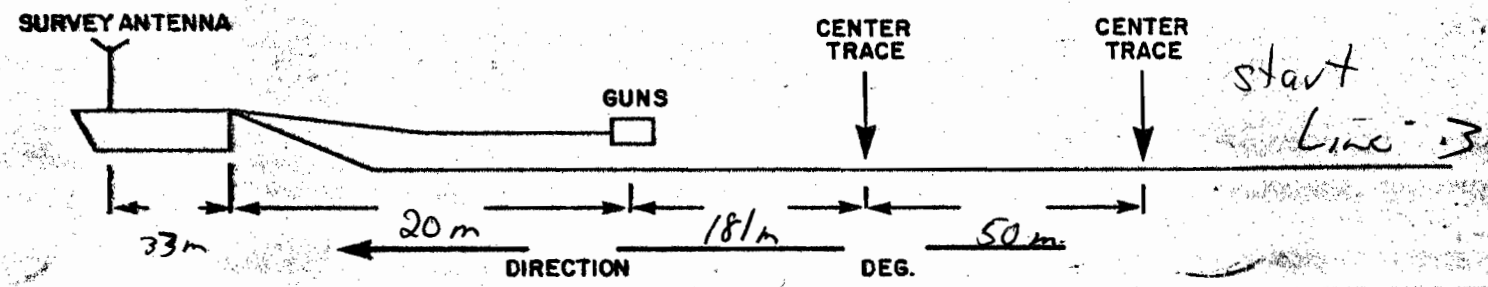
LINE NO. 3 DIR. ____ DEG. CABLE TYPE 24 CH

LOCATION Tx OCS TRACE INT. 50 m

SAMPLE RATE 2 MS. BPI ____ SEG B FORMAT Yes

RECORD LENGTH 5 EXTENDED HEADER START WORD 49

SOUND SOURCE (2) 400 H_2O cu. in. @ 2000 psi @ 6 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
2^8	out	128	IFP	out	128	3	7	defloat

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	092	313	3	357	001	210	001	210	1300	14:30
2	093				211	421	211	421	14:30	16:05
1	094				422	630	422	630	16:05	17:32
2	095	313	3	322	631	842	631	842	17:32	1853
1	96	313	3	317	843	1051	843	1051	1853	2014
2	97	313	3		1052	1263	1052	1263	2014	2137
1	98	313	3		1264	1472	1264	1472	2137	2242
2	99				1473	1679	1473	1679	2242	2322
1	100				1680	1890	1680	1890	2322	003
2	101				1891	2095	1891	2095	003	048
1	102				2096	2298	2096	2298	048	01:24
2	103	313/314			2299	2505	2299	2505	01:24	02:06
1	104				2505	2710	2505	2710	02:06	02:41
2	105				2711	2914	2711	2914	02:41	03:21
1	106				2915	3117	2915	3117	03:21	04:10
2	107				3118	3326	3118	3326	04:10	04:53

U.S. GEOLOGICAL SURVEY

DFS V LOG

VESSEL RV/GYRE CRUISE NO. 83-14 DATE 11/9/83

(2)

SHOT INTERVAL (DISTANCE) 50 m OR TIME _____ sec.

OFFSET Guns to near trace m PRIME NAVIGATION WINS - Loran "C"/Sat.

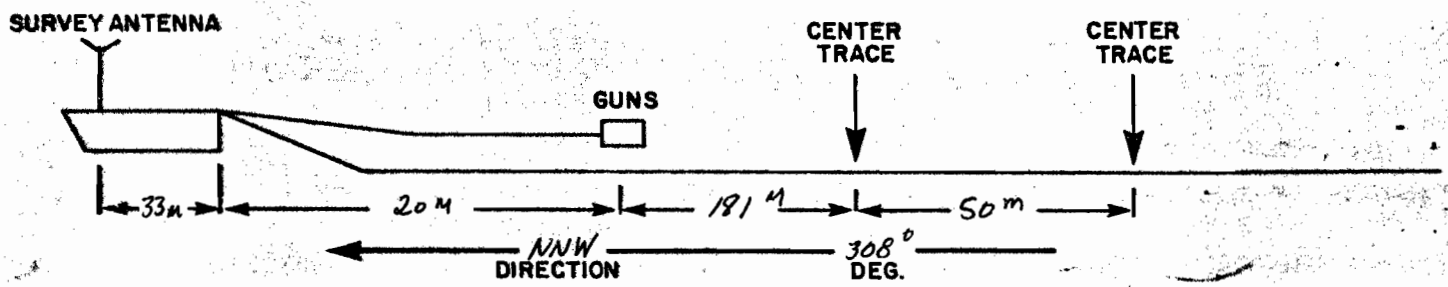
LINE NO. 3 DIR. 308° DEG. CABLE TYPE 24 CH

LOCATION Tx OCS TRACE INT. 50

SAMPLE RATE 2 MS. BPI _____ SEG B FORMAT Yes

RECORD LENGTH 5 sec EXTENDED HEADER START WORD 49

SOUND SOURCE 2 @ 400 cu. in. @ 2000 psi @ 6 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
2^8	out	128	IFP	out	128	3	7	DEFLOAT

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	108	314	3	308°	3327	3530	3324	3530	04:53	05:34
2	109	314	3	306	3531	3742	3531	3742	05:34	0617
1	110	314	3	320	3743	3952	3743	3952	0617	0705
2	111	314	3		3953	4078	3953	4078	0705	0739
			EOL-3							

OBSERVER'S MARINE REPORT

VESSEL R/V GYRE DATE 11/9/83 #1

Client	USGS Mattick	Type instrument	DFS V	Offset distance	181 m.
Area	Texas OCS	Record filter	out - 128	Group interval	50 m
State	Texas	Sample rate	2 ms	Fold coverage	12
Observer	Leinback / Patterson	gun depth	6M [redacted]	in.³ of guns	1-400 H2O

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth M	W.D. M	Reel No.	Line No.	Remarks
	001	001	1300	357	5.4/8.4/9.2/8.8	3415	092	3	start L #3 run water
								TB°	gun back up along L #2
								185°	for comparison
									* 3.5 sec +.560 DELAY *
									TRCS 1,12,15,17 BAD
									FIRING PORT WATER GUN ONLY
	070	070	1330	002°	5.2/6.8/6.8/7.4	3400	092	3	T.B. 180°
	140	140	14:00	359°	5.0-6.6-6.8-7.6	3369	092	3	2 guns on (Water guns)
	209	209	14:30	359°	5.2-6.6-6.8-7.4	3369	092	3	#516 Delay = 3.560 sec
	279	279	15:00	358	5.4-6.6-6.8-7.2	3354	093	3	#614 standard gun out
	344	344	15:30	357°	5.4-6.6-6.6-7.4	3339	093	3	#664 Both guns on line
	410	410	16:00	359°	5.0-6.8-6.8-7.4	3329	093	3	
	474	474	16:30	311°	5.4-7.2-7.6-8.0	3319	094	3	
	549	549	17:00	323°	5.2-6.6-6.8-7.2	3309	094	3	
	625	625	17:30	323°	5.4-7.2-7.6-7.6	3309	094	3	
	701	701	1800	322	5/6.8/6.8/7.6	3294	95	3	owen/zihlman on watch TB = 180°
	779	779	1830	321	5/6.8/7/7.6	3274	95	3	TB = 185°
	843	843	1853	322	—	—	95/96	3	chg Tape
	859	859	1900	321	4.6/6.8/7.2/7.6	3269	96	3	air discharge hose releasing under water TB = 180°
	907	907	1918	—	—	—	96	3	Port Gun off line
	937	937	1930	317	5/6.8/7.2/7.6	3269	96	3	TB = 180°
	986	986	1949	317	—	—	96	3	Both guns up
	1015	1015	2000	318	4.8/6.6/6.8/7.6	3259	96	3	Trace 1,12,15,17 off still TB = 180°
	1037	1037	2009	318	—	—	96	3	chg delay to 2.5 sec +560ms ramp
	1052	1052	2014	317	—	—	96/97	3	chg - Tape
	1091	1091	2030	318	4.8/6.8/7.4/7.6	3234	97	3	TB = 185°
	1167	1167	2100	321	5/7/7.4/7.6	3217	97	3	TB = 185°
	1245	1245	2130	320	5.2/7.2/7.6/8	3202	97	3	TB = 185°
	1264	1264	2137	317	—	—	97/98	3	chg. Tape
	1318	1318	2200	317	5.4/6.8/6.8/7.8	3185	98	3	chg watch to Patterson/Leinback TB =
	1341	1341	2210	317			98	3	1341 on is 25 m shot
	1416	1416	2230	318	4.8/6.8/7.4/7.6	3150	98	3	spacing 1 1/2 dozen line
	1569	1569	2300	317	4.8/6.8/7.2/8.0	3120	99	3	up shots put a gap in the
									line / 370 meters
	1673	1673	2320						CHGED 15 ms PULSE TO
	1721	1721	2330	317	4.8/6.8/7.4/8.0	3095	100	3	40 ms PULSE
	1875	1875	2400	313	5.2/6.8/7.4/7.8	3075	100	3	
	2029	2029	030	314	5.2/6.8/7.2/7.8	3045	101	3	

OBSERVER'S MARINE REPORT

VESSEL Cyrie DATE 11/10/83 # 2

Client U.S.G.S. Mattick Type Instrument DFS V Offset distance 181 m.

Area Texas OCS Record filter out - 128 Group Interval 50

State Texas Sample rate 2 ms. Fold coverage 24

Observer Leinbach/Patterson gun depth 6 m. In.³ of guns 2 400 H2O

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
	2178	2178	100	314	5.0/6.8/7.0/7.6	2990	102	3	time delay is 2.5 + .56 s.
	2323	2323	130	313		2895	103	3	
	2418	2418	148	312	5.0/6.8/7.2/7.6		103	3	← change time delay to
	2477	2477	02:00	311°	5.0-6.8-7.0-7.6	2404	103	3	2.0 2 + .56 sec.
	2628	2628	02:30	311°	5.0-6.8-7.0-7.8	2104	104	3	Watch change sp 2477 Wise/Wells
	2778	2778	03:00	308°	5.2-7.0-7.6-8.0	1950	104	3	#2633 Delay 2.060 **
	2925	2925	03:30	308°	5.4-7.0-7.2-7.6	1965	106	3	
	3092	3092	04:00	309°	5.2-6.8-7.2-7.6	1860	106	3	
	3219	3219	04:30	308°	5.4-7.0-7.2-7.8	1795	107	3	#3233 Delay Exactly 1.5 sec
	3363	3363	05:00	311°	5.0-6.6-7.2-7.8	1805	108	3	#3528 + 3529 Parity error
	3510	3510	05:30	311°	5.4-6.8-6.4-7.4	1935	108	3	
	3658	3658	0600	306	5.4/7.2/7.6/8	1860	109	3	watch chg to Owen/Zihlman TB = 185°
	3743	3743	0617	306	—	—	109/110	3	chg. Tape
	3802	3802	0630	306	5.4/7/6.8/7.4	1720	110	3	Traces 1,12,15,17 off TB = 185°
	3931	3931	0700	320	5.2/6.2/5.6/7.6	1680	110	3	seas 4 to 5' white caps TB = 175°
	3953	3953	0705	320	—	—	110/111	3	chg Tape wind SOS 30 Knts
			0720		-		111	3	data poor tail light
	4048	4048	0730	319	4.8/4.8/1.2/2.2	1630	111	3	lot of noise in phone TB = 175°
	4078	4078	0739				112	3	EOL-3