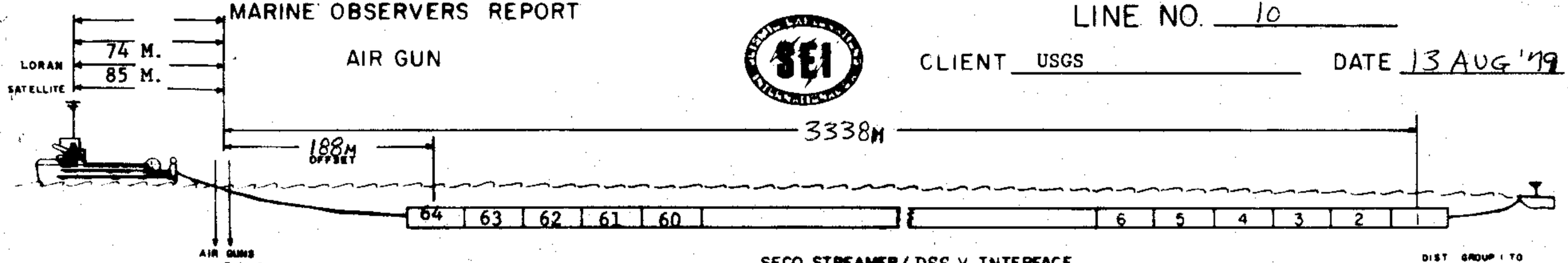
MARINE OBSERVERS REPORT

AIR GUN

LINE NO. 10

CLIENT USGS

DATE 13 AUG '79



AREA Gulf of Mexico LOCATION MAFLA OCS

MOTOR VESSEL SEISMIC EXPLORER DIRECTION RECORDED 222°

NO OF ACTIVE SECTIONS 32 ACTIVE SECTION LENGTH 100 M. GEO/GRP 64

DISTANCE FROM CENTER OF SOURCE TO CENTER OF NEAR STATION 188 M

GROUP INTERVAL 50 M. S P INTERVAL 50 M. POP INTERVAL 50 M.

NO AND VOLUME OF AIR GUNS 21/2183 Cu. In.

AIR GUN DEPTH 7 M.

NAVIGATION Satellite Navigation/Doppler Sonar with Loran C

REMARKS: All times GMT

SP 1569 - #4 Port gun out (15 cu. in)

SP 2081 (File 081) - Last good shot point

Files 082 - 087 are No good

SP 2087 - Broke Line due to Compressor Failure

REFERENCE VOLTAGE: 400 uv

1st SP 1 FILE # 001 REEL # 280 TIME: 0057 GMT

LAST SP 2081 FILE # 081 REEL # 304 TIME 1138 GMT

CLIENT REPRESENTATIVE: Ray Martin Mahlon Ball

INSTRUMENTATION

RECORDING INSTRUMENTS GEOSOURCE MDS-10

TIME ZERO DELAY 25 ms.

TAPE FORMAT SEG 'B' RECORD LENGTH 8 secs.

MULTIPLEX: 32 64 128 X BPI 1600 SAMPLE RATE 4 Ms

GAIN MODE IFP GAIN CONSTANT 24 dbs

HC FILTER 62 Hz Slope 80 db/oct. LC FILTER 9 Hz Slope 18 db/oct.

STREAMER SENSITIVITY 100 uv/ub

SYSTEM POLARITY: circle appropriate term

Geophone Output		Digital Tape		Camera Monitor		Section Plotter	
+	−	+	−	up	down	black	white

REMARKS: Time break overide: 64 ms.

Fathometer recordings draft compensated

FATHOMETER: TYPE Raytheon Bathymetric DEPTH 4 M.

MAGNETOMETER TYPE DEPTH

SUB-BOTTOM PROFILER:

SECTION PLOTTER: Tr 64 Each 1 Pop. 4 Secs.

TYPE Raytheon LSR-1811

TAPE CHANNEL ASSIGNMENT

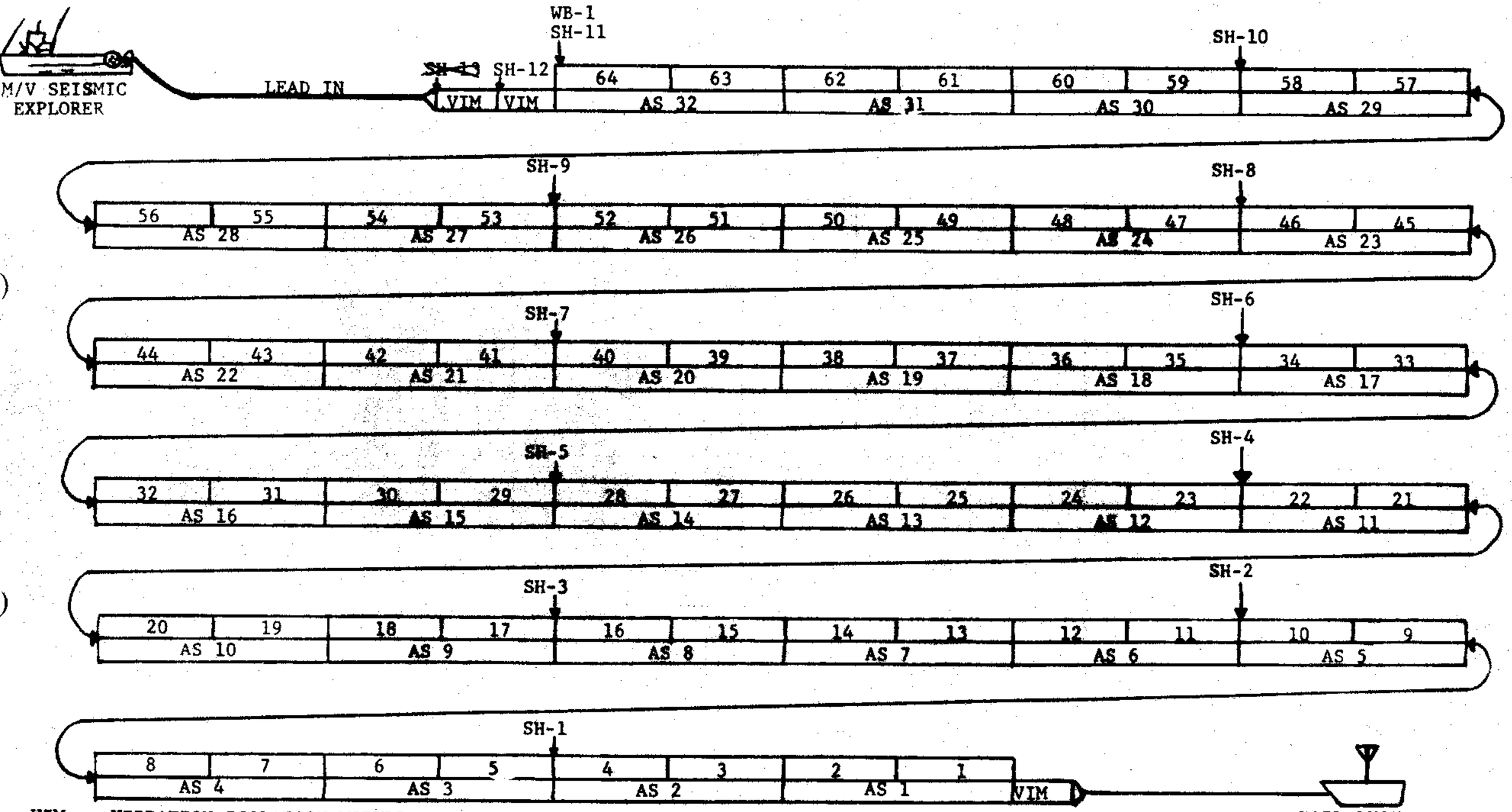
Channel(s)	INFORMATION
1-64	Seismic Data
Aux. 1	Timing Word
Aux. 2	W/B Sum
Aux. 3	Time Break
Aux. 4	Gun Phone Sum
Aux. 5	50 Hz.

Monitor Record Every 40 Pop

MONITOR TRACE ASSIGNMENT

Trace(s)	INFORMATION
1-48	Seismic Data
49	TIME BREAK
50	Gun Phone Sum
51	W/B Sum
52	File Number
53	50 Hz.

OBSERVER Hunter/ABERNETHY



VIM = VIBRATION ISOLATION MODULE
AS = ACTIVE SECTION
1-64 = 50 METER GROUPS
SH = SEAHAWK DEPTH CONTROLLER
WB = WATER BREAK

OBSERVER'S LOG

AREA: GULF OF MEXICO
LINE No. 10 DATE: 13 AUG 79
CLIENT: USGS
BASE COURSE: 222°
LOCATION: MAFLA OCS

M/V SEISMIC EXPLORER

REEL No. 280-289

KEY
BOT = Beginning of Tape
EOT = End of Tape
PE = Parity Error
AF = Autofire

SP No.	FILE No.	TIME (GMT)	STREAMER DEPTH (FEET) 1	2	3	4	5	6	7	8	9	10	11	12	SHIP's HDG.	TAIL BOUY	WATER DEPTH (FEET)	REEL No.	TRANS PORT	REMARKS
	000																	280	2	CABLE NOISE
1	001	0057	25	26	25	24	25	26	24	25	25	26	25	24	228°	180°	50			FIRST SHOT OF LINE
40	040	0109	26	26	26	25	26	25	25	25	25	25	24	24	229	178°	51			
80	080	0120	25	26	26	25	25	27	26	26	25	26	25	25	227°	175°	51			
85	085																	280	2	EOT
86	086																	281	1	BOT
120	120	0132	26	26	25	24	24	25	26	25	25	26	25	25	229°	173°	55			
160	160	0144	26	26	25	24	25	26	27	25	25	25	24	24	228°	173°	52			
170	170																	281	1	EOT
170	171																	282	2	BOT
197	197																			PE
200	200	0156	25	25	25	24	25	26	26	25	24	25	24	24	230°	175°	53			
240	240	0208	25	25	25	27	24	25	25	25	24	25	24	25	227°	175°	51			
255	255																	282	2	EOT
256	256																	283	1	BOT
280	280	0220	25	25	25	27	24	25	23	24	23	24	24	24	228°	176°	52			
320	320	0232	25	25	25	27	25	25	23	24	25	25	25	24	227°	177°	52			
340	340																	283	1	EOT
341	341																	284	2	BOT
360	360	0245	25	25	24	24	25	26	26	25	24	24	24	24	230°	173°	50			
400	400	0257	26	25	24	24	24	25	25	25	25	26	25	25	230°	173°	50			
425	425																	284	2	EOT
426	426																	285	1	BOT
440	440	0309	25	25	25	24	24	26	24	25	25	24	25	24	230°	173°	55			
480	480	0322	25	25	25	24	25	26	25	26	25	26	25	24	231°	172°	57			
510	510																	285	1	EOT
511	511														230°	174°		286	2	BOT
520	520	0334	26	25	25	25	25	26	27	25	26	26	25	24	↓	↓	61			
560	560	0346	25	25	26	24	25	25	25	26	26	25	25	24	231°	172°	73			
595	595																	286	2	EOT
596	596																	287	1	BOT
597	597																			PE
600	600	0359	25	25	25	24	26	26	25	26	26	25	25	24	230°	175°	55			
640	640	0411	26	25	25	25	26	26	25	26	26	25	25	25	232°	175°	68			
643	643		Diving Cable To 30 Feet																	
680	680	0424	30	30	31	31	31	31	31	30	31	31	31	30	232°	175°	74	287	1	EOT
681	681																	288	2	BOT
720	720	0437	30	30	31	31	30	30	30	31	31	31	29	28	229°	178°	78			
760	760	0449	31	31	31	31	31	31	32	31	31	31	29	28	228°	177°	73			
765	765																	288	2	EOT
766	766																	289	1	BOT

OBSERVER'S LOG

AREA: Gulf of Mexico
LINE No. 10 DATE: 13 AUG '79
CLIENT: USGS
BASE COURSE: 222°
LOCATION: MAFLA OCS

M/V SEISMIC EXPLORER

REEL No. 289-298

KEY
BOT = Beginning of Tape
EOT = End of Tape
PE = Parity Error
AF = Autofire

SP No.	FILE No.	TIME (GMT)	STREAMER DEPTH (FEET) 1	2	3	4	5	6	7	8	9	10	11	12	SHIP'S HDG.	TAIL BOUY	WATER DEPTH FEET ~~METERS~~	REEL No.	TRANS PORT	REMARKS
800	800	0502	31	30	31	30	31	30	30	30	30	31	32	30	227°	178°	76	289	1	
840	840	0515	31	30	31	30	30	30	29	30	30	30	32	32	227°	178°	79			
850	850																	289	1	EOT
851	851																	290	2	BOT
880	880	0528	30	31	31	31	31	31	31	31	30	30	29	29	228°	178°	80			
920	920	0541	31	30	31	29	30	29	28	30	30	30	30	29	229°	177°	84			
935	935																	290	2	EOT
936	936																	291	1	BOT
960	960	0553	30	30	31	30	29	28	30	29	29	30	31	31	227°	177°	90			
1000	000	0606	30	30	31	30	30	31	32	31	30	30	29	28	226°	177°	90			
1020	020	0612																291	1	EOT
1021	021																	292	2	BOT
1040	040	0619	30	30	31	30	30	30	27	30	30	29	28	28	228°	177°	83			
1080	080	0631	30	30	30	28	29	28	30	31	31	33	31	29	225°	178°	90			
1105	105																	292	2	EOT
1106	106																	293	1	BOT
1120	120	0644	31	31	32	31	30	29	28	29	30	29	29	28	229°	175°	90			
1160	160	0657	30	30	30	31	30	31	30	30	30	30	31	31	227°	176°	91			
1190	190																	293	1	EOT
1191	191																92	294	2	BOT
1200	200	0710	30	30	30	29	31	30	31	30	30	31	31	30	227°	177°				
1240	240	0723	31	30	31	28	30	31	31	30	29	29	29	29	227°	177°	88			
1275	275																	294	2	EOT
1276	276																	295	1	BOT
1280	280	0736	30	30	30	29	29	28	28	29	30	29	31	29	228°	176°	91			
1320	320	0749	30	30	30	29	28	28	29	30	30	31	30	30	228°	178°	91			
1360	360	0802	30	29	29	27	29	28	29	31	32	31	29	29	224°	180°	94	295	1	EOT
1361	361																	296	2	BOT
1400	400	0815	30	30	31	31	29	29	27	29	29	28	28	28	229°	178°	93			
1440	440	0828	30	30	30	30	29	29	33	31	30	28	28	27	228°	178°	92			
1445	445																	296	2	EOT
1446	446																	297	1	BOT
1454	454																			Time Break Error
1480	480	0840	31	30	30	28	29	31	31	30	31	31	30	29	225°	180°	96			
1520	520	0852	31	30	30	30	29	29	28	29	29	29	30	29	226°	178°	98			
1530	530																	297	1	EOT
1531	531																	298	2	BOT
1560	560	0905	30	30	31	31	31	32	29	30	29	29	31	30	230°	175°	94			
1562	562																			AF
1565	565																			AF
1568	568																			AF
1569	569		#4 Port gun out (15 cu. in)																	
1600	600	0917	30	30	30	30	31	30	29	30	30	31	30	30	230°	175°	92			

OBSERVER'S LOG

AREA: Gulf of Mexico
LINE No. 10 DATE: 13 AUG '79
CLIENT: USGS
BASE COURSE: 222°
LOCATION: MAFLA OCS

M/V SEISMIC EXPLORER

REEL No. 298 - 304

KEY
BOT = Beginning of Tape
EOT = End of Tape
PE = Parity Error
AF = Autofire

SP No.	FILE No.	TIME (GMT)	STREAMER DEPTH (FEET) 1	2	3	4	5	6	7	8	9	10	11	12	SHIP's HDG.	TAIL BOUY	WATER DEPTH (FEET)	REEL No.	TRANS PORT	REMARKS
1615	615																	298	2	EOT
1616	616																	299	1	BOT
1640	640	0929	30	29	30	29	31	31	33	31	31	29	30	29	228°	178°	88			
1680	680	0941	31	30	31	30	28	31	30	30	30	30	28	28	225°	180°	98			
1700																		299	1	EOT
1701																		300	2	BOT
1720	720	0953	30	30	30	29	29	30	29	29	28	30	30	29	225°	179°	88			
1760	760	1005	31	30	31	30	30	29	30	29	28	29	30	30	225°	177°	97			
1785	785																	300	2	EOT
1786	786																	301	1	BOT
1800	800	1017	30	30	31	30	30	29	29	30	30	31	32	30	224°	180°	106			
1840	840	1029	30	30	30	31	30	28	30	30	30	29	29	29	224°	180°	106			
1870	870																	301	1	EOT
1871	871																	302	2	BOT
1880	880	1040	30	30	31	30	30	30	28	29	28	29	30	29	225°	179°	108			
1920	920	1052	30	29	29	28	30	30	33	31	30	31	28	29	221°	180°	113			
1955	955																	302	2	EOT
1956	956																	303	1	BOT
1960	960	1104	30	30	30	30	30	30	29	29	29	30	32	32	222°	180°	113			
2000	000	1115	30	30	31	31	31	30	29	29	29	30	29	29	223°	179°	112			
2040	040	1126	31	30	31	31	31	29	31	30	29	29	30	29	222°	179°	96	303	1	EOT
2041	041																	304	2	BOT
2080	080	1138	30	30	30	30	30	31	29	30	30	29	30	31	220°	178°	121			
2087	087		BROKE LINE DUE To Compressor Problems																	
2081	081	1138																		Last good shot point. Last File on Tape. Two Tape Marks
2087	087	1140	BROKE LINE DUE To Compressor Problems (Files 082-087 are no good)																	

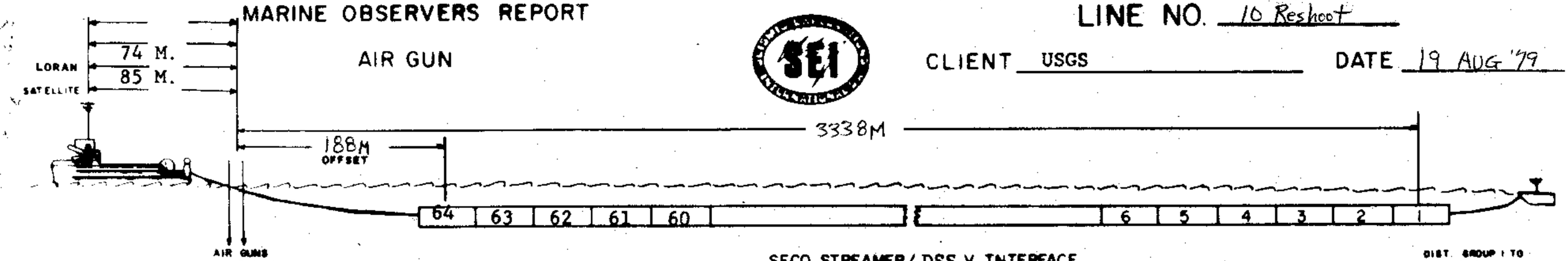
MARINE OBSERVERS REPORT

AIR GUN

LINE NO. 10 Reshoot

CLIENT USGS

DATE 19 AUG '79



AREA Gulf of Mexico LOCATION MAFLA OCS

MOTOR VESSEL SEISMIC EXPLORER DIRECTION RECORDED 222°

NO OF ACTIVE SECTIONS 32 ACTIVE SECTION LENGTH 100 M. GEO./GRP 64

DISTANCE FROM CENTER OF SOURCE TO CENTER OF NEAR STATION 188M

GROUP INTERVAL 50 M. S.P. INTERVAL 50 M. POP INTERVAL 50 M.

NO. AND VOLUME OF AIR GUNS 21/2183 Cu. In.

AIR GUN DEPTH 7 M.

NAVIGATION Satellite Navigation/Doppler Sonar with Loran C

REMARKS All times GMT
SP 2081 - LAST 'A' shot
SP 2494 - Turned off 45 cu.in. gun
SP 3274 - Last shot of Line; dogleg to Line 9

REFERENCE VOLTAGE: 400 uv

1st SP 2049A FILE # 001 REEL # 410 TIME: 2135 GMT

LAST SP 3274 FILE # 226 REEL # 424 TIME: 0327 GMT

CLIENT REPRESENTATIVE: Ray Martin Mahlon Ball

INSTRUMENTATION

RECORDING INSTRUMENTS GEOSOURCE MDS-10

TIME ZERO DELAY 25 ms.

TAPE FORMAT SEG 'B' RECORD LENGTH 8 secs.

MULTIPLEX: 32 ___ 64 ___ 128 X BPI 1600 SAMPLE RATE 4 Ms.

GAIN MODE IFP GAIN CONSTANT 24 dbs

HC FILTER 62 Hz Slope 80 db/oct. LC FILTER 9 Hz Slope 18 db/oct.

STREAMER SENSITIVITY 100 uv/ub

SYSTEM POLARITY: circle appropriate term

Geophone Output		Digital Tape		Camera Monitor		Section Plotter	
+	-	+	-	up	down	black	white

REMARKS: Time break overide: 64 ms.
Fathometer recordings draft compensated

FATHOMETER: TYPE Raytheon Bathymetric DEPTH 4 M.

MAGNETOMETER TYPE ___ DEPTH ___

SUB-BOTTOM PROFILER ___

SECTION PLOTTER: Tr 64 Each 1 Pop. 4 Secs.
TYPE Raytheon LSR-1811

TAPE CHANNEL ASSIGNMENT

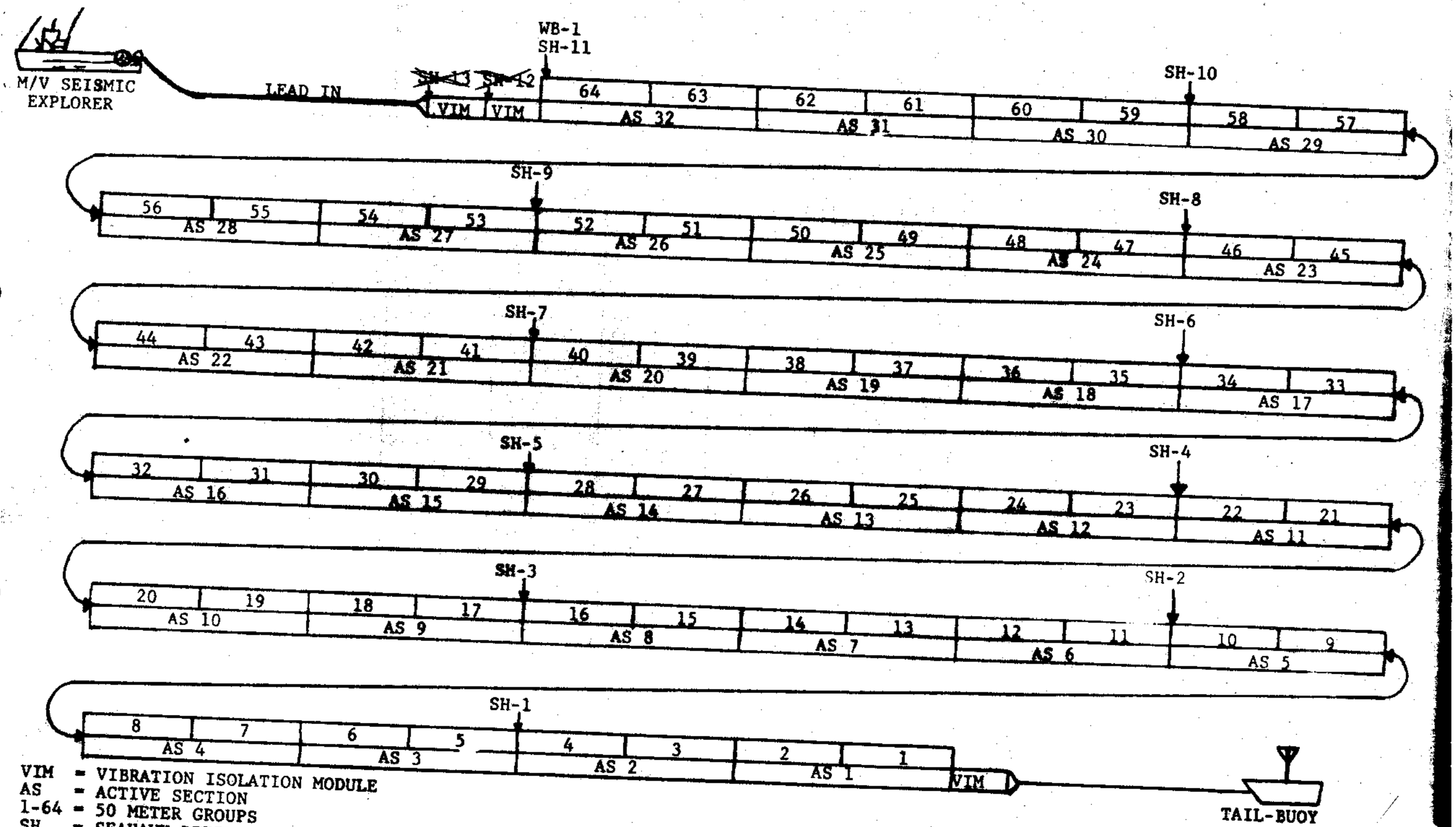
Channel(s)	INFORMATION
1-64	Seismic Data
Aux. 1	Timing Word
Aux. 2	W/B Sum
Aux. 3	Time Break
Aux. 4	Gun Phone Sum
Aux. 5	50 Hz.

Monitor Record Every 40 Pop

MONITOR TRACE ASSIGNMENT

Trace(s)	INFORMATION
1-48	Seismic Data
49	TIME BREAK
50	Gun Phone Sum
51	W/B Sum
52	File Number
53	50 Hz.

OBSERVER Hutchins/Hunter



VIM = VIBRATION ISOLATION MODULE
AS = ACTIVE SECTION
1-64 = 50 METER GROUPS
SH = SEAHAWK DEPTH CONTROLLER
WB = WATER BREAK

OBSERVER'S LOG

AREA: GULF OF MEXICO
LINE No. 10 Reshoot DATE: 18 AUG 79
CLIENT: USGS
BASE COURSE: 222°
LOCATION: MAFLA OCS

M/V SEISMIC EXPLORER

REEL No. 410 - 419

KEY
BOT = Beginning of Tape
EOT = End of Tape
PE = Parity Error
AF = Autofire

SP No.	FILE No.	TIME (GMT)	STREAMER DEPTH (FEET) 1	2	3	4	5	6	7	8	9	10	11	12	SHIP'S HDG.	TAIL BOUY	WATER DEPTH (FEET)	REEL No.	TRANS PORT	REMARKS
	000																	410	2	
2049A	001	2135	28	32	32	27	29	30	30	28	29	30	32	X	219°	184°	126			FIRST 'A' SHOT OF LINE
2081A	033	2144																		LAST 'A' SHOT
2088	040	2146	30	30	30	29	29	30	28	29	29	29	30	X	219°	184°	122			
2128	080	2157	30	29	29	28	27	27	27	29	29	29	31	X	219°	184°	114			
2133	085																	410	2	EOT
2134	086																	411	1	BOT
2168	120	2209	30	30	29	28	28	28	27	29	29	30	30	X	219°	183°	122			
2208	160	2220	31	30	30	28	28	29	28	29	29	30	31	X	220°	182°	129			
2218	170																	411	1	EOT
2219	171																	412	2	BOT
2248	200	2231	30	29	29	28	29	30	31	30	29	29	31	X	219°	181°	149			
2288	240	2242	30	30	30	29	29	30	31	30	30	30	30	X	219°	181°	166			
2303	255																	412	2	EOT
2304	256																	413	1	BOT
2328	280	2253	30	30	30	29	29	30	30	31	30	30	31	X	219°	176°	178			
2368	320	2304	31	31	30	29	31	32	32	31	30	30	31	X	217°	179°	180			
2388	340																	413	1	EOT
2389	341																	414	2	BOT
2408	360	2316	30	30	30	29	30	30	31	30	30	31	31	X	217°	180°	178			
2448	400	2327	31	30	31	30	31	32	32	30	30	29	30	X	216°	180°	181			
2473	425																	414	2	EOT
2474	426																	415	1	BOT
2488	440	2338	31	30	30	29	30	30	31	30	31	31	30	X	215°	184°	208			
2494	446			TURN OFF 45 CU IN GUN																
2528	480	2349	30	31	31	29	29	30	32	31	30	29	31	X	211°	183°	213			
2558	510																	415	1	EOT
2559	511																	416	2	BOT
2568	520	0001	30	30	31	30	30	31	30	28	29	31	30	X	217°	181°	219			
2608	560	0012	30	29	29	30	29	30	31	29	29	31	30	X	217°	179°	254			
2643	595																	416	2	EOT
2644	596																	417	1	BOT
2648	600	0024	30	30	29	29	29	31	31	30	30	33	30	X	217°	180°	280			
2688	640	0035	31	30	30	30	30	31	32	31	31	32	30	X	219°	176°	298			
2728	680	0047	30	31	31	30	30	30	31	30	30	29	29	X	218°	178°	336	417	1	EOT
2729	681																	418	2	BOT
2768	720	0058	30	30	30	30	30	30	31	30	29	29	28	X	217°	179°	350			
2808	760	0109	30	30	31	30	29	31	31	30	29	29	29	X	217°	183°	363			
2813	765																	418	2	EOT
2814	766																	419	1	BOT

OBSERVER'S LOG

AREA: GULF OF MEXICO
LINE No. 10 RESHOOT DATE: 19 AUG 79
CLIENT: USGS
BASE COURSE: 222°
LOCATION: MAFLA OCS

M/V SEISMIC EXPLORER

REEL No. 419-424

KEY
BOT = Beginning of Tape
EOT = End of Tape
PE = Parity Error
AF = Autofire

SP No.	FILE No.	TIME (GMT)	STREAMER DEPTH (FEET) 1	2	3	4	5	6	7	8	9	10	11	12	SHIP's HDG.	TAIL BOUY	WATER DEPTH (METERS)	REEL No.	TRANS PORT	REMARKS
2848	800	0121	30	30	30	30	30	30	27	29	28	28	28	X	218°	181°	368	419	1	
2888	840	0132	31	30	30	29	29	29	29	29	29	29	28	X	218°	178°	328			
2898	850																	419	1	EOT
2899	851																	420	2	BOT
2928	880	0144	30	29	29	29	30	30	29	30	29	28	28	X	218°	179°	364			
2968	920	0156	30	29	30	29	29	31	32	31	31	31	30	X	221°	176°	350			
2983	935																	420	2	EOT
2984	936																	421	1	BOT
3008	960	0208	30	30	30	29	29	31	32	30	30	30	29	X	221°	177°	336			
3048	000	0219	30	30	30	29	29	31	32	31	30	30	29	X	223°	178°	457			
3068	020																	421	1	EOT
3069	021																	422	2	BOT
3088	040	0232	30	30	30	29	30	30	31	30	29	29	29	X	222°	179°	517			
3128	080	0244	30	30	30	29	30	31	32	30	30	29	29	X	223°	178°	527			
3153	105																	422	2	EOT
3154	106																	423	1	BOT
3168	120	0256	30	30	30	30	31	32	30	31	30	29	28	X	224°	177°	537			
3208	160	0307	31	31	31	29	30	29	28	29	30	29	28	X	223°	178°	548			
3238	190																	423	1	EOT
3239	191																	424	2	BOT
3248	200	0319	31	30	30	29	29	29	29	29	29	28	29	X	224°	177°	561			
3274	226	0327	DOGLEG TO LINE 9																	LAST SHOT OF LINE
																				NO TAPE MARKS