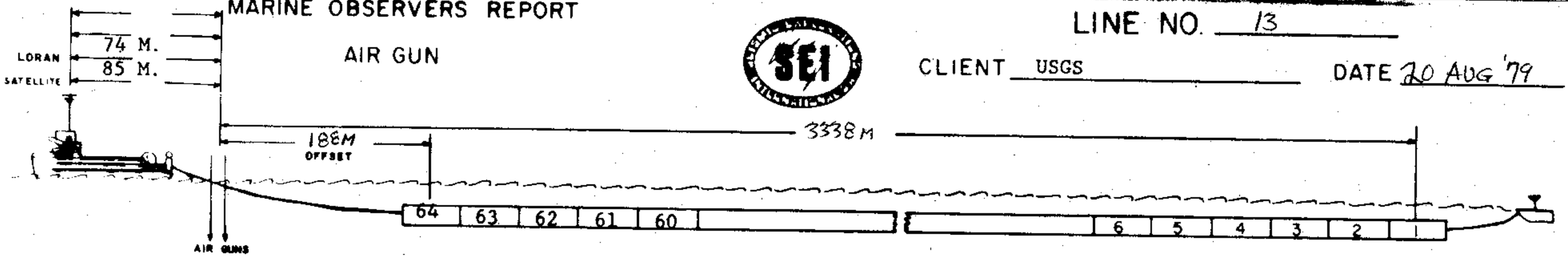
MARINE OBSERVERS REPORT

AIR GUN

LINE NO. 13

CLIENT USGS

DATE 20 AUG '79



SAT NAV ANTENNA HGT 14 M. ABOVE GEOID

SECO STREAMER/ DSS V INTERFACE

DIST GROUP 1 TO TAIL BUOY: 200 M.

AREA Gulf of Mexico LOCATION MAFLA OCS

MOTOR VESSEL SEISMIC EXPLORER DIRECTION RECORDED 143°

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 730 - BROKE LINE DUE TO GENERATOR FAILURE.

REFERENCE VOLTAGE: 400 uv

1st SP 1 FILE # 001 REEL # 451 TIME 1017 GMT

LAST SP 730 FILE # 730 REEL # 459 TIME 1348 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 Bathymetri 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

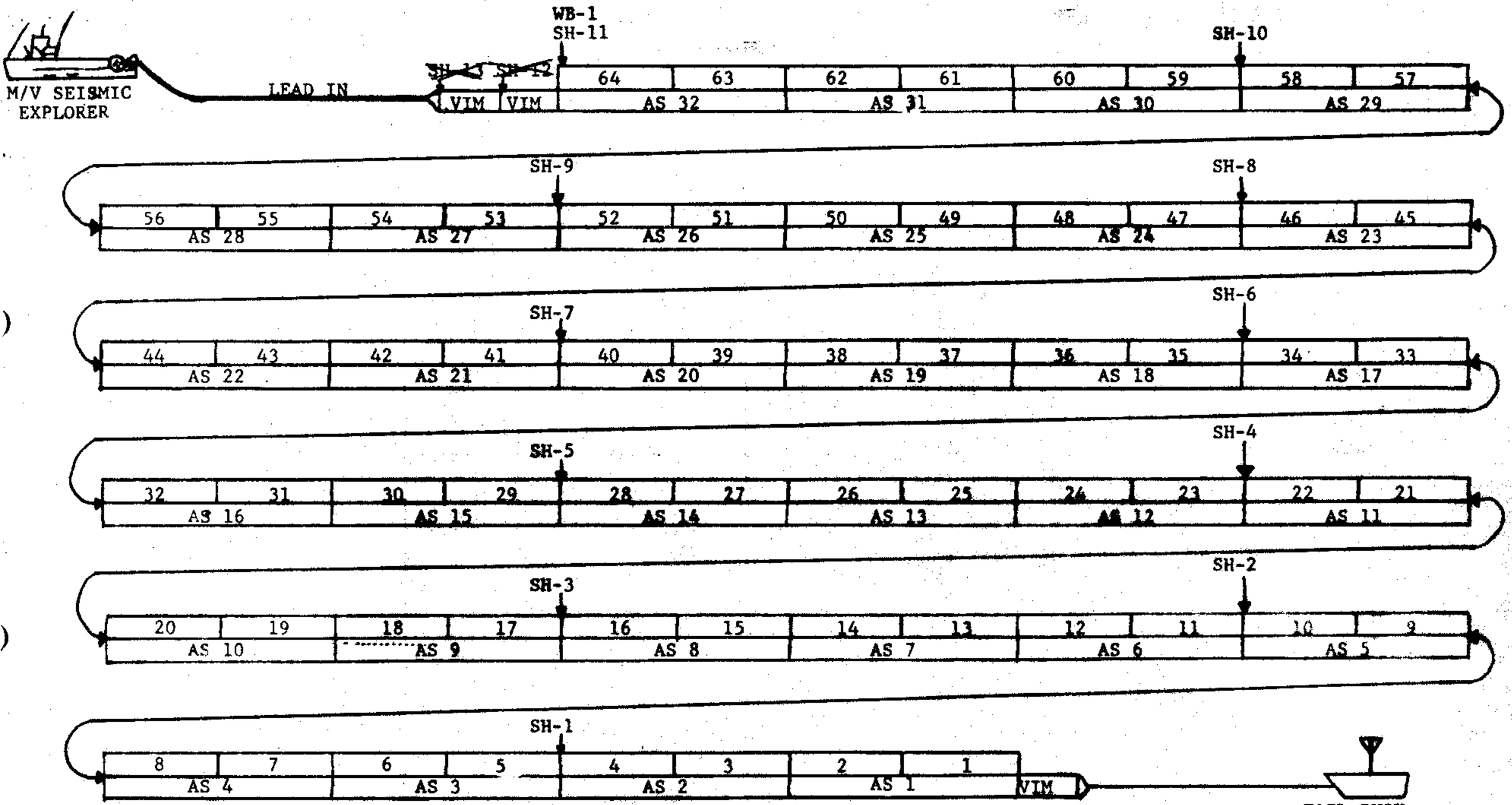
Channel(s)	INFORMATION
1-64	Seismic Data
Aux. 1	Timing Word
Aux. 2	W/B Sum
Aux. 3	Time Break
Aux. 4	Gun Phone Sum
Aux. 5	50 Hz.

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



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. 13 DATE: 20 AUG 79
CLIENT: USGS
BASE COURSE: 143°
LOCATION: MAFLA OCS

M/V SEISMIC EXPLORER

PAGE 1 OF 1
REEL No. 451-459

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																	451	1	CABLE NOISE
1	001	1017	31	29	29	29	29	29	29	30	31	31	30	X	143°	181°	120			FIRST SHOT OF LINE
40	040	1028	31	31	31	31	30	30	29	30	29	29	29	X	144°	179°	122			
80	080	1040	30	30	29	29	29	28	28	30	29	30	30	X	144	179°	126			
85	085																	451	1	EOT
86	086																	452	2	BOT
120	120	1051	31	30	30	29	29	29	32	30	29	30	30	X	144°	179°	121			
160	160	1103	30	31	30	30	29	27	28	30	28	29	30	X	144°	178°	118			
170	170																	452	2	EOT
171	171																	453	1	BOT
200	200	1115	30	30	30	29	30	32	33	30	29	30	30	X	144°	178°	86			
240	240	1126	30	30	28	28	30	30	31	30	29	29	30	X	145°	178°	126			
255	255																	453	1	EOT
256	256																	454	2	BOT
280	280	1138	30	30	29	32	30	31	29	30	29	30	31	X	144°	180°	113			
320	320	1149	30	30	29	29	31	29	28	30	30	32	32	X	142°	181°	113			
340	340	1156																454	2	EOT
341	341																	455	1	BOT
360	360	1202	30	30	30	30	32	31	29	30	30	31	30	X	139°	183°	123			
400	400	1213	30	30	29	29	31	30	27	30	29	31	30	X	146°	175°	120			
425	425																	455	1	EOT
426	426																	456	2	BOT
440	440	1225	30	28	28	27	30	29	32	30	29	30	30	X	145°	175°	116			
480	480	1237	30	30	28	28	31	33	32	30	29	30	30	X	145°	178°	115			
510	510																	456	2	EOT
511	511																	457	1	BOT
520	520	1248	31	31	30	29	29	29	29	30	29	31	30	X	146°	178°	124			
560	560	1259	30	29	28	27	29	28	30	30	30	31	30	X	145°	179°	110			
595	595																	457	1	EOT
596	596																	458	2	BOT
600	600	1310	30	30	29	27	29	29	32	30	30	31	31	X	143°	181°	115			
640	640	1322	30	30	29	27	30	31	29	30	28	29	30	X	145°	178°	114			
680	680	1333	30	29	29	32	30	30	29	30	30	30	30	X	145°	177°	122	458	2	EOT
681	681	1333																459	1	BOT
720	720	1345	30	31	31	33	31	31	31	30	30	30	30	X	145°	178°	123			
730	730	1348	BROKE LINE DUE TO GENERATOR FAILURE																	Last good shotpoint No TAPE MARKS

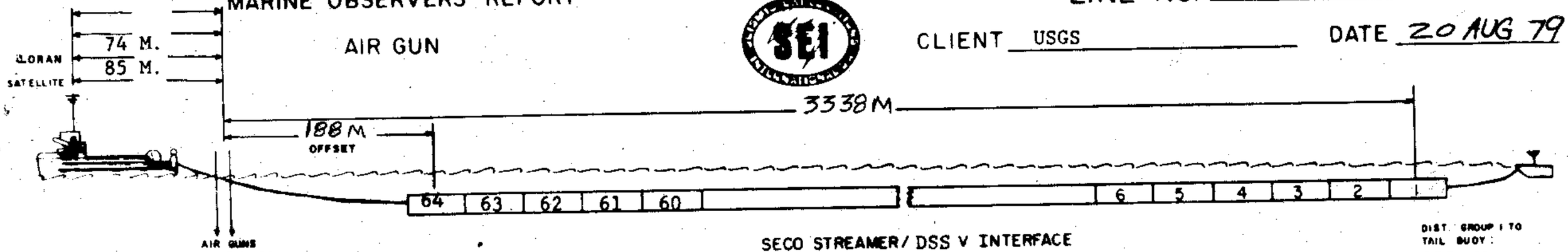
MARINE OBSERVERS REPORT

LINE NO. 13 RESHOOT

AIR GUN

CLIENT USGS

DATE 20 AUG 79



SAT NAV ANTENNA HGT 14 M. ABOVE GEOID

AREA Gulf of Mexico LOCATION MAFLA OCS

MOTOR VESSEL SEISMIC EXPLORER DIRECTION RECORDED 143°

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 868 - Missed due to shot error.

REFERENCE VOLTAGE: 400 uv

1st SP 698A FILE # 001 REEL # 460 TIME: 1645 GMT

LAST SP 2125 FILE # 427 REEL # 476 TIME 2349 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 db

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

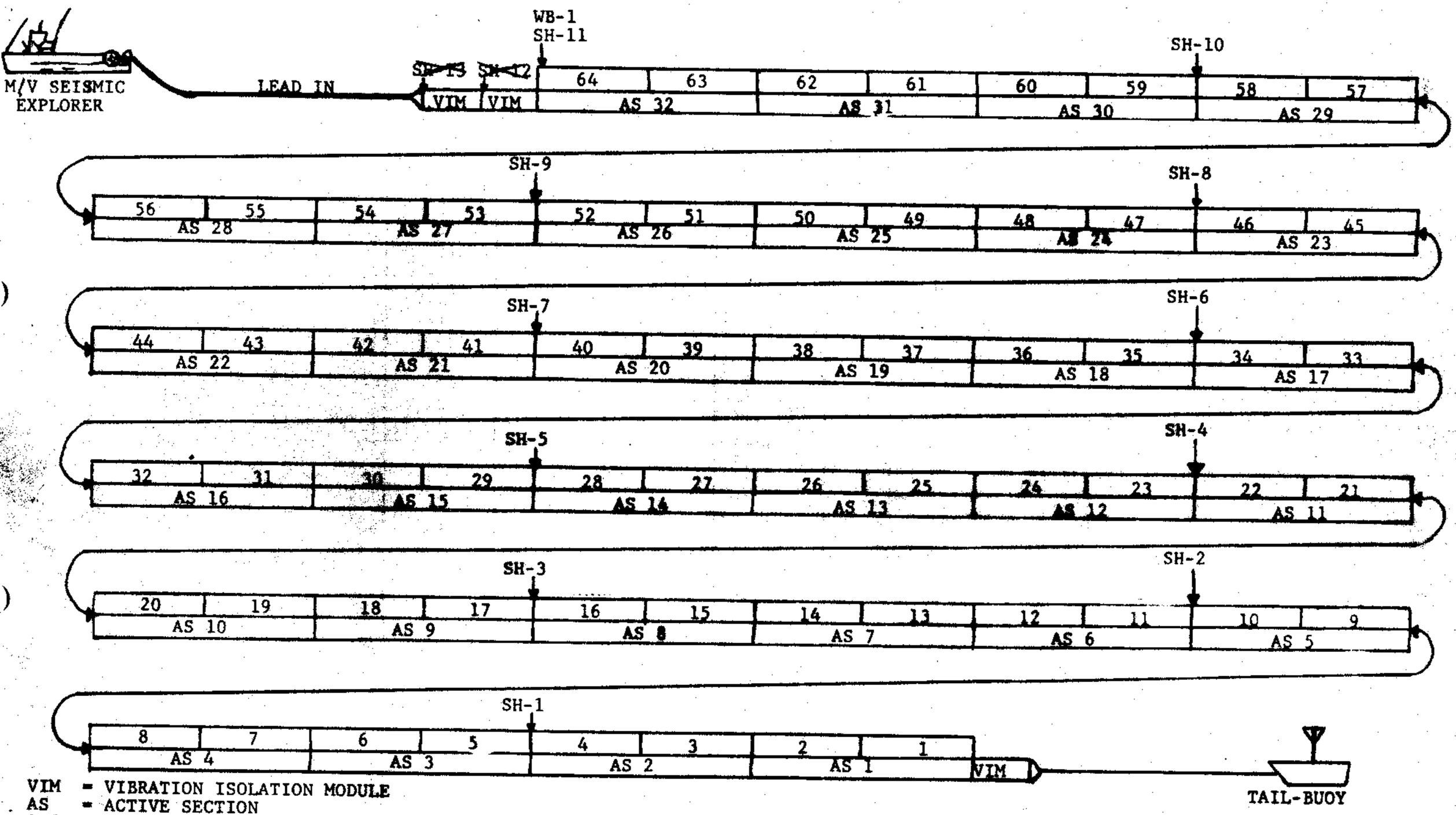
Channel(s)	INFORMATION
1-64	Seismic Data
Aux. 1	Timing Word
Aux. 2	W/B Sum
Aux. 3	Time Break
Aux. 4	Gun Phone Sum
Aux. 5	50 Hz.

Monitor Record Every 40 Per

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/HUTCHINS



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. 13 Rev 1 DATE: 20 AUG 79
CLIENT: USGS
BASE COURSE: 143°
LOCATION: MAFLA OCS

M/V SEISMIC EXPLORER

PAGE 1 OF 2
REEL No. 460-468

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																	460	2	BOT CABLE NOISE
698A	001	1645	31	32	33	32	31	31	31	27	29	28	30	X	142°	183°	121			FIRST 'A' shot
730A	033																			LAST 'A' shot
737	040	1656	31	31	31	29	29	29	28	29	29	28	29	X	143°	180°	127			
777	080	1708	31	31	32	30	29	30	28	30	30	29	29	X	142°	181°	127			
782	085																	460	2	EOT
783	086																	461	1	BOT
793	096	1713																		PE
817	120	1719	30	29	29	27	29	32	33	32	31	30	29	X	143°	181°	122			
857	160	1731	31	31	32	31	31	31	33	31	27	30	29	X	137°	185°	126			
867	170																	461	1	EOT
868			Missed shotpoint 868 (Shot point/FILE# disagrees)																	shot error (868)
869	171		First shot point/FILE ON TAPE #462															462	2	BOT
897	199	1743	31	31	31	29	29	27	30	31	30	29	29	X	141°	179°	131			
937	239	1755	31	30	29	28	29	31	32	31	30	29	29	X	145°	183°	129			
952	254																	462	2	EOT
953	255																	463	1	BOT
977	279	1807	31	30	30	28	29	29	28	31	31	30	30	X	141°	179°	129			
1017	319	1818	30	29	28	27	28	27	27	28	29	28	29	X	140°	181°	123			
1037	339																	463	1	EOT
1038	340																	464	2	BOT
1057	359	1830	31	31	31	30	31	33	33	31	30	29	30	X	139°	181°	127			
1097	399	1842	30	31	32	30	28	27	27	28	28	28	29	X	139	182°	126			
1122	424																	464	2	EOT
1123	425																	465	1	BOT
1137	439	1854	31	31	30	28	29	30	29	29	30	29	29	X	138°	182	121			
1177	479	1906	30	30	31	30	29	28	30	30	29	29	29	X	140°	180°	125			
1207	509																	465	1	EOT
1208	510																	466	2	BOT
1217	519	1918	31	31	30	30	31	33	30	30	29	28	29	X	138°	181°	127			
1257	559	1929	30	31	32	30	29	27	29	29	30	30	30	X	141°	179°	127			
1292	594																	466	2	EOT
1293	595																	467	1	BOT
1297	599	1941	30	29	29	28	29	31	33	31	31	30	30	X	137°	183°	127			
1337	639	1953	31	31	30	29	29	28	33	30	29	29	29	X	139°	181°	124			
1377	679	2006	30	30	30	29	30	30	33	28	31	31	30	X	139°	181°	128	467	1	EOT
1378	680																	468	2	BOT
1417	719	2017	31	31	31	29	29	30	32	29	29	29	29	X	139°	181°	127			

OBSERVER'S LOG

AREA: Gulf of Mexico
LINE No. 13Rehet DATE: 20AUG'79
CLIENT: USGS
BASE COURSE: 143°
LOCATION: MAFLA OCS

M/V SEISMIC EXPLORER

REEL No. 468-476

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
1457	759	2029	31	30	30	28	27	27	31	29	30	31	30	X	144°	176°	127	468	2	
1462	764																	468	2	EOT
1463	765																	469	1	BOT
1499	799	2041	30	30	30	29	30	31	33	30	31	31	30	X	140°	180°	128			
1537	839	2053	31	31	31	29	30	29	29	27	28	28	29	X	141°	180°	128			
1547	849																	469	1	EOT
1548	850																	470	2	BOT
1577	879	2166	30	29	29	28	30	30	33	28	29	30	30	X	141°	182°	127			
1617	919	2118	30	29	30	29	29	30	29	31	30	31	30	X	141°	182°	128			
1632	934																	470	2	EOT
1633	935																	471	1	BOT
1657	959	2129	31	30	30	29	30	33	29	31	30	31	30	X	143°	179°	128			
1697	999	2141	30	30	32	31	30	27	28	28	30	30	30	X	143°	179°	128			
1717	019																	471	1	EOT
1718	020																	472	2	BOT
1737	039	2154	31	31	30	28	29	32	33	31	30	29	29	X	143°	180°	126			
1777	079	2206	31	30	31	30	29	29	28	30	31	31	30	X	144°	180°	128			
1802	104																	472	2	EOT
1803	105																	473	1	BOT
1817	119	2217	31	31	31	29	30	31	31	32	31	31	30	X	146°	179°	127			
1857	159	2230	30	30	31	29	29	27	30	32	31	31	29	X	148°	177°	128			
1887	189																	473	1	EOT
1888	190																	474	2	BOT
1897	199	2241	30	30	31	29	30	31	28	32	33	33	31	X	143°	183°	125			
1937	239	2253	31	31	31	30	30	29	30	31	31	31	30	X	144°	178°	125			
1972	274																	474	2	EOT
1973	275																	475	1	BOT
1977	279	2305	31	31	31	29	28	28	29	31	30	29	29	X	145°	178°	126			
2017	319	2317	31	31	31	28	29	28	29	30	29	29	29	X	145°	178°	124			
2057	359	2329	31	31	31	29	29	29	30	31	31	30	29	X	146°	179°	123	475	1	
2058	360																	476	2	
2097	399	2341	31	31	32	30	29	28	29	29	28	28	29	X	146°	179°	125			
2125	427	2349																		LAST SHOT OF LINE
	428																			CABLE NOISE
																				TWO TAPE MARKS