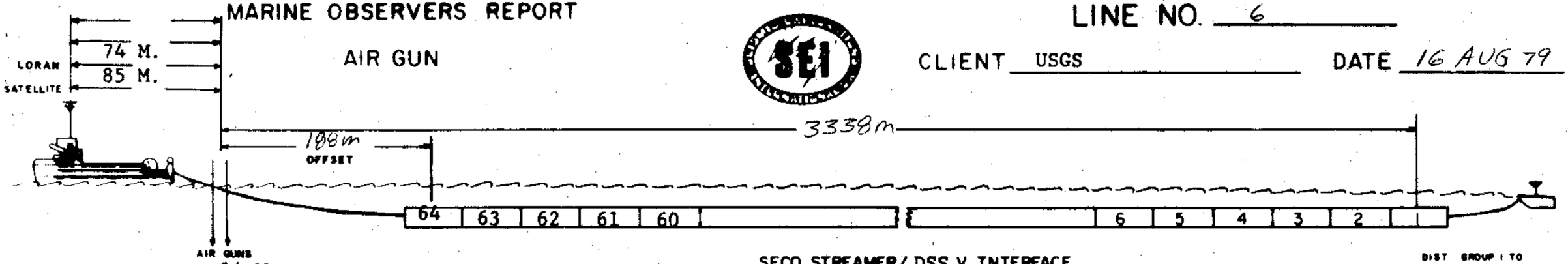
MARINE OBSERVERS REPORT

AIR GUN

LINE NO. 6

CLIENT USGS

DATE 16 AUG 79



AREA Gulf of Mexico LOCATION MAFLA OCS

MOTOR VESSEL SEISMIC EXPLORER DIRECTION RECORDED 197°

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

TAPE 344 - All 12 SEC. RECORDS

Missed SP189 & 190.

SP 316 - BROKE LINE 463 CU. IN GUN OUT

REFERENCE VOLTAGE: 400 uv

1st SP 129 FILE # 045 REEL # 344 TIME: 2024 GMT

LAST SP 316 FILE # 231 REEL # 346 TIME: 2117 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

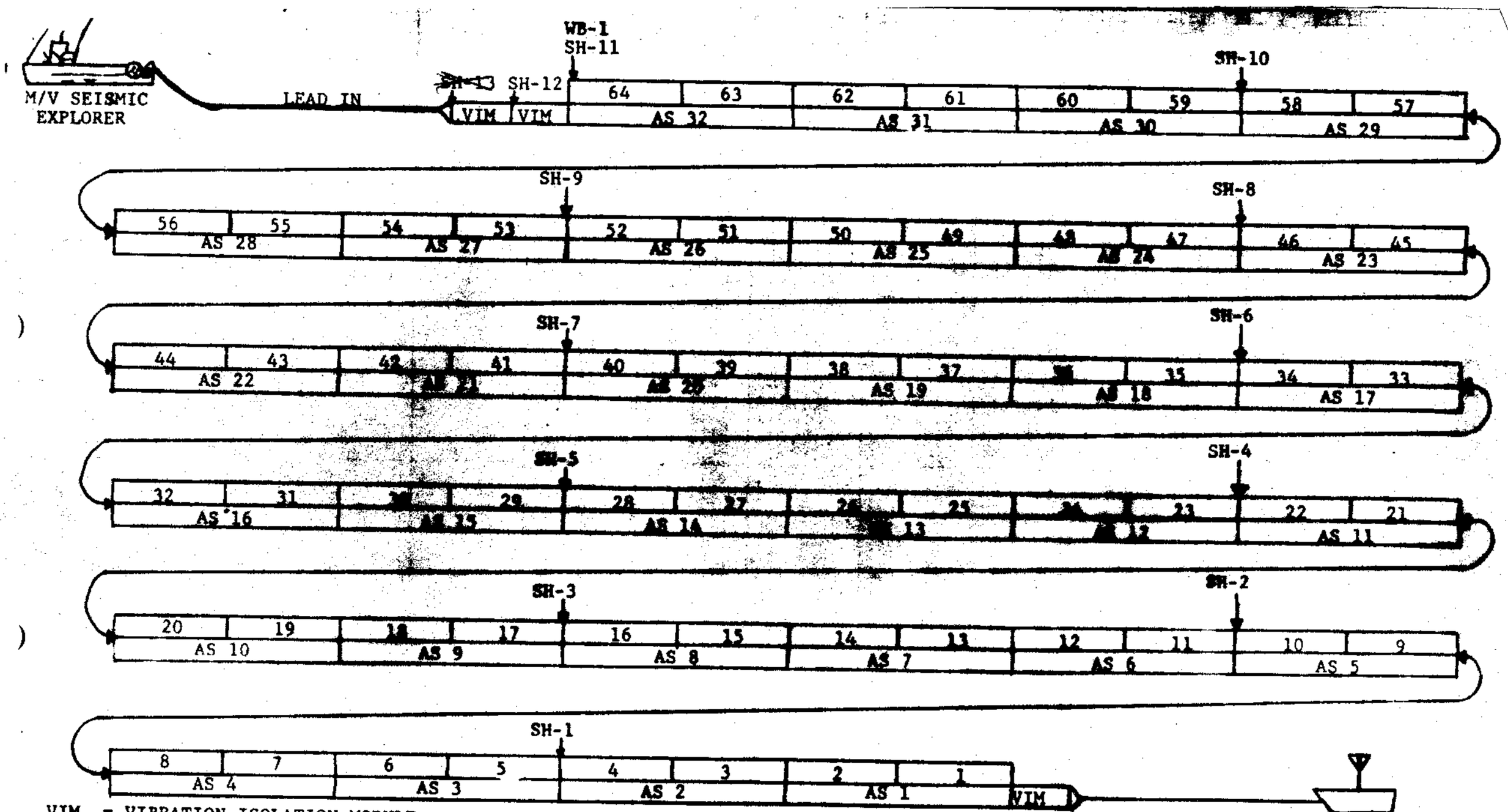
Channel(s)	INFORMATION
1-64	Seismic Data
Aux. 1	Timing Word
Aux. 2	W/B Sum
Aux. 3	Time Break
Aux. 4	Gun Phone Sum
Aux. 5	50 Hz.

Monitor Record Every 40 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/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. 6 DATE: 16 AUG '79
CLIENT: USGS
BASE COURSE: 197°
LOCATION: MAFLA OCS

M/V SEISMIC EXPLORER

PAGE 1 OF 1
REEL No. 344 - 346

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
129	045	2024	28	30	31	32	29	33	30	31	29	22	29	31	200°	183°	181	344	2	BOT First shot of Line
168	084	2035	27	30	27	29	30	28	31	30	29	22	29	30	198°	182°				
188	104		TAPE 344 shot with All 12 sec RECORDS																	PE
189	105	←	Missed shot point. Tape RAN off Reel due to 12 sec Records instead of 8 sec.																	
190	106	←	Missed shot point At tape change.															345	1	BOT
208	124	2047	27	31	32	30	31	32	30	30	28	21	30	31	199°	181°	207			
248	164	2058	27	31	31	29	30	30	29	31	32	25	38	35	198°	178°	214			
270	186																	345	1	EOT
271	187																	346	2	BOT
288	203	2110	27	31	31	28	29	29	27	29	29	21	29	28	200°	178°	221			
316	231	2117	BREAK LINE 463 cu. in. gun out.																	
																				TWO TAPE MARKS

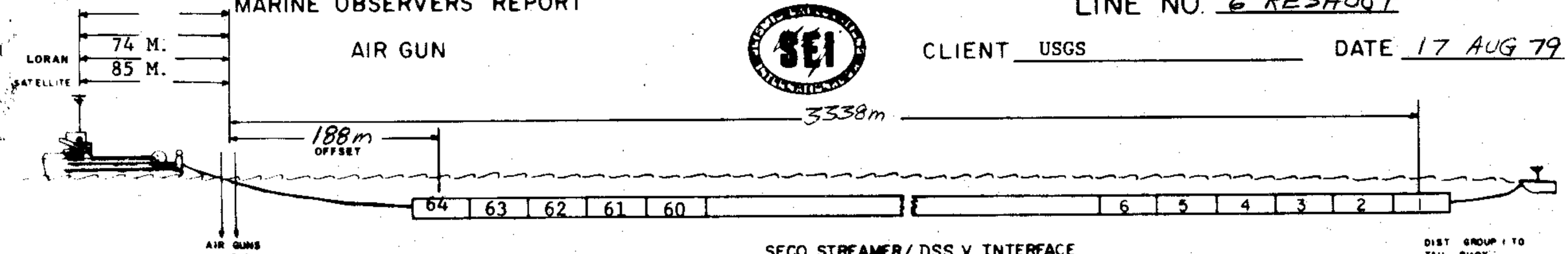
MARINE OBSERVERS REPORT

AIR GUN

LINE NO. 6 RESHOOT

CLIENT USGS

DATE 17 AUG 79



SAT NAV ANTENNA HGT 14 M. ABOVE GEOID

AREA Gulf of Mexico LOCATION MAFLA OCS

MOTOR VESSEL SEISMIC EXPLORER DIRECTION RECORDED 197°

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AIR GUN DEPTH 7.M.

NAVIGATION Satellite Navigation/Doppler Sonar with Loran C

REMARKS All times GMT

REFERENCE VOLTAGE: 400 uv

1st SP 284A FILE # 001 REEL # 347 TIME 2320 GMT

LAST SP 1458 FILE # 175 REEL # 360 TIME 0444 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.

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TAPE CHANNEL ASSIGNMENT

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Aux. 3	Time Break
Aux. 4	Gun Phone Sum
Aux. 5	50 Hz.

Monitor Record Every 40 Pop

MONITOR TRACE ASSIGNMENT

Trace(s)	INFORMATION
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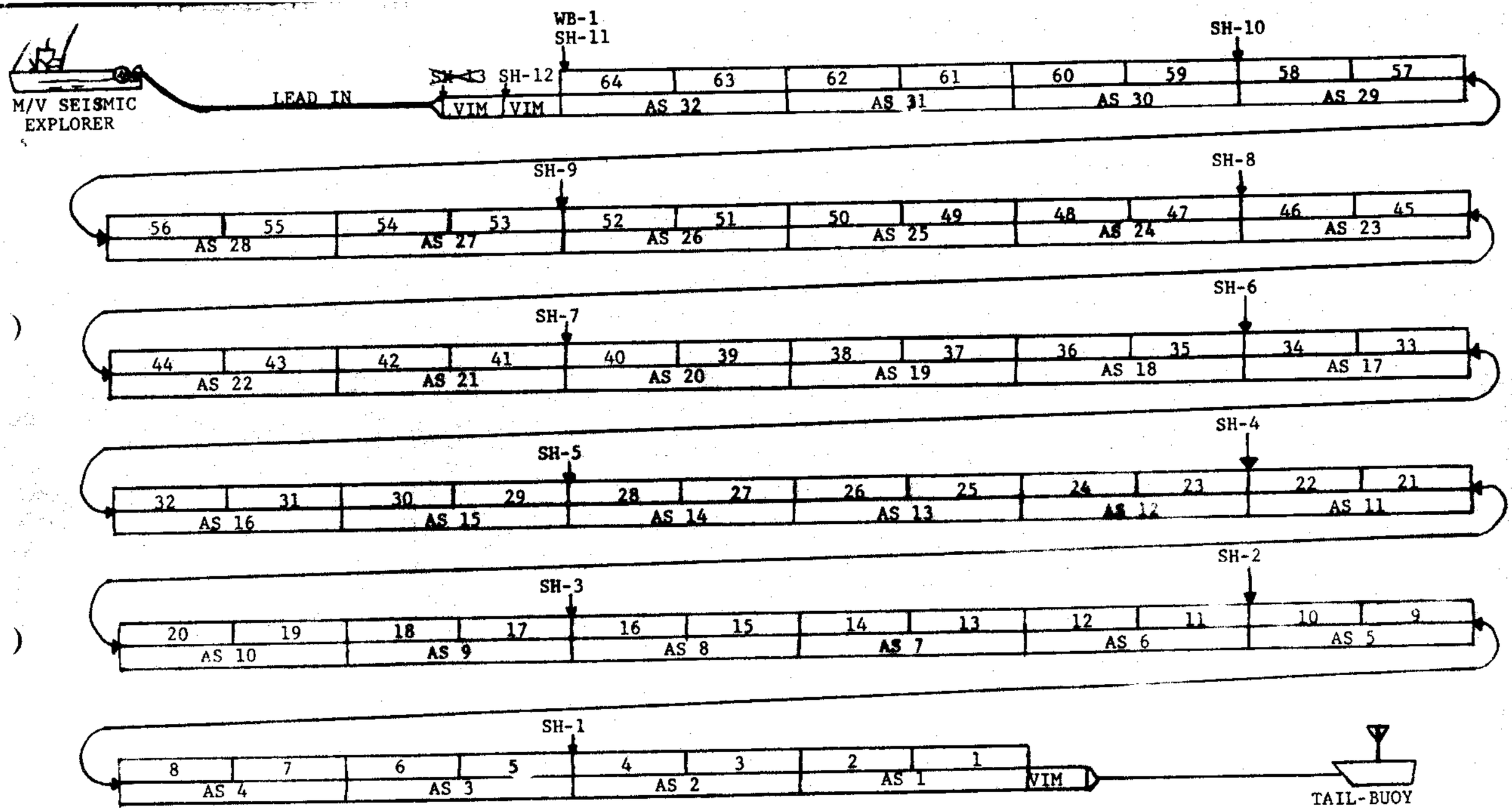
49	TIME BREAK
50	Gun Phone Sum
51	W/B Sum
52	File Number
53	50 Hz

OBSERVER HUTCH



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AS = ACTIVE SECTION
1-64 = 50 METER GROUPS
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WB = WATER BREAK

OBSERVER'S LOG

AREA: GULF OF MEXICO
LINE No. 6 Reshoot DATE: 16 AUG 79
CLIENT: USGS
BASE COURSE: 197°
LOCATION: MAFLA OCS

M/V SEISMIC EXPLORER

PAGE 1 OF 2
REEL No. 347-356

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	REEL No.	TRANS PORT	REMARKS
	000																	347	1	CABLE NOISE
284A	001	2320	32	30	30	31	29	31	32	32	30	22	30	28	204°	176°	220			FIRST 'A' Shot
316A	033	2328																		LAST 'A' Shot
323	040	2331	32	30	30	32	30	31	28	31	30	22	30	28	203°	175°	230			
363	080	2342	32	30	31	33	30	30	27	31	30	22	30	27	205°	172°	238			
368	085																	347	1	EOT
369	086																	348	2	BOT
403	120	2353	33	32	31	32	29	29	27	31	30	22	29	27	207°	176°	250			
443	160	0005	32	31	31	32	29	30	27	31	30	22	30	27	205°	179°	259			
453	170																	348	2	EOT
454	171																	349	1	BOT
483	200	0016	32	30	31	32	29	29	26	31	29	22	30	27	205°	178°	271			
523	240	0027	32	30	29	32	29	31	31	31	29	22	30	28	204°	179°	287			
538	255																	349	1	EOT
539	256																	350	2	BOT
563	280	0038	32	29	29	31	29	29	30	30	29	22	30	28	204°	178°	303			
603	320	0049	32	29	29	29	28	28	29	30	28	22	31	29	201°	180°	318			
623	340																	350	2	EOT
624	341																	351	1	BOT
626	343																			PE
643	360	0100	32	29	29	30	28	27	28	30	29	22	33	30	201°	180°	333			
683	400	0111	32	30	29	30	27	28	28	30	29	22	32	30	205°	178°	347			
708	425																	351	1	EOT
709	426																	352	2	BOT
723	440	0122	32	29	28	30	28	27	29	31	30	23	32	30	202°	179°	361			
763	480	0133	29	30	30	30	31	32	32	31	30	22	31	29	199°	179°	373			
793	510																	352	2	EOT
794	511														204°	175°		353	1	BOT
803	520	0145	29	30	30	30	29	30	29	30	30	22	31	29	204°	175°	387			
843	560	0156	29	29	29	30	30	31	31	31	30	22	31	29	203°	176°	403			
878	595																	353	1	EOT
879	596																	354	2	BOT
883	600	0207	29	30	30	31	31	32	31	31	30	22	31	29	201°	178°	422			
923	640	0218	29	30	29	30	30	30	29	30	30	22	32	30	202°	178°	443			
963	680	0229	29	30	30	32	30	31	30	30	30	22	31	29	202°	174°	466	354	2	EOT
964	681																	355	1	BOT
1003	720	0241	29	30	31	32	31	31	30	31	30	22	30	28	204°	175°	490			
1043	760	0252	29	30	30	31	31	31	30	31	30	22	30	28	205°	175°	516			
1048	765																	355	1	EOT
1049	766																	356	2	BOT

OBSERVER'S LOG

AREA: GULF OF MEXICO
LINE No. 6 Resdoot DATE: 17 AUG 79
CLIENT: USGS
BASE COURSE: 197°
LOCATION: MAFLA OCS

M/V SEISMIC EXPLORER

PAGE 2 OF 2
REEL No. 356 - 360

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) (MTRS)	REEL No.	TRANS PORT	REMARKS
1083	800	0303	29	30	30	33	32	32	31	31	30	22	30	27	205°	176°	547	356	2	
1123	840	0314	30	31	30	32	31	32	31	31	31	22	30	28	205°	177°	580			
1133	850																	356	2	EOT
1134	851																	357	1	BOT
1163	880	0325	30	31	30	32	32	33	32	32	31	22	30	27	202°	179°	616			
1203	920	0336	30	31	31	32	31	31	31	31	31	22	32	30	205°	176°	653			
1218	935	LIGHT SHIP NOISE																357	1	EOT
1219	936																	358	2	BOT
1243	960	0346	29	30	30	32	31	32	31	31	30	22	29	29	204°	178°	690			
1283	000	0357	30	30	30	31	31	31	30	31	30	22	30	30	203°	178°	729			
1303	020																	358	2	EOT
1304	021																	359	1	BOT
1323	040	0408	30	30	30	31	31	30	30	31	30	22	29	30	203°	178°	773			
1363	080	0418	29	31	30	31	31	31	31	31	30	22	29	29	203°	180°	814			
1388	105	0425																359	1	EOT
1389	106																	360	2	BOT
1403	120	0429	30	30	29	31	29	29	30	31	30	22	29	30	203°	180°	858			
1443	160	0440	30	30	30	31	30	31	30	30	30	22	30	30	204°	179°	903			
1458	175	0444																		LAST SHOT OF LINE
	176																			CABLE NOISE
																				TWO TAPE MARKS