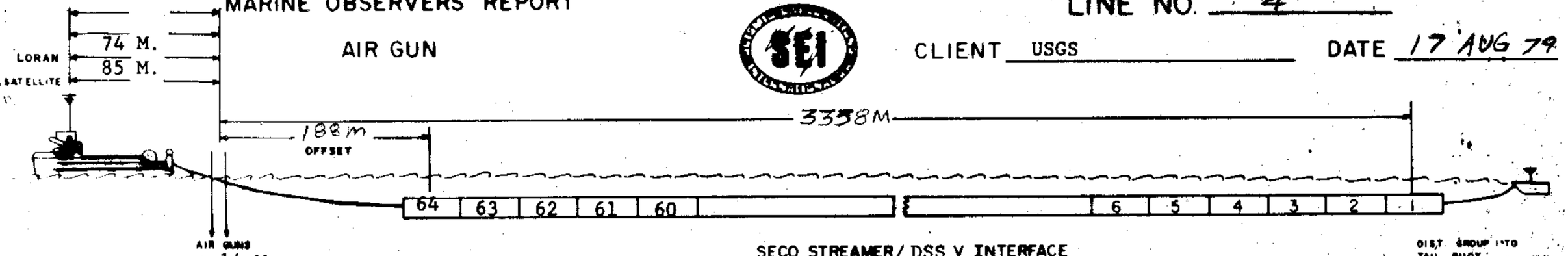
MARINE OBSERVERS REPORT

AIR GUN

LINE NO. 4

CLIENT USGS

DATE 17 AUG 79



AREA Gulf of Mexico LOCATION MAFLA OCS

MOTOR VESSEL SEISMIC EXPLORER DIRECTION RECORDED 17°

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 88 - 280 CU. IN. GUN OUT

REFERENCE VOLTAGE: 400 uv

1st SP 1 FILE# 001 REEL# 361 TIME: 1321 GMT

LAST SP 757 FILE# 757 REEL# 369 TIME 1657 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

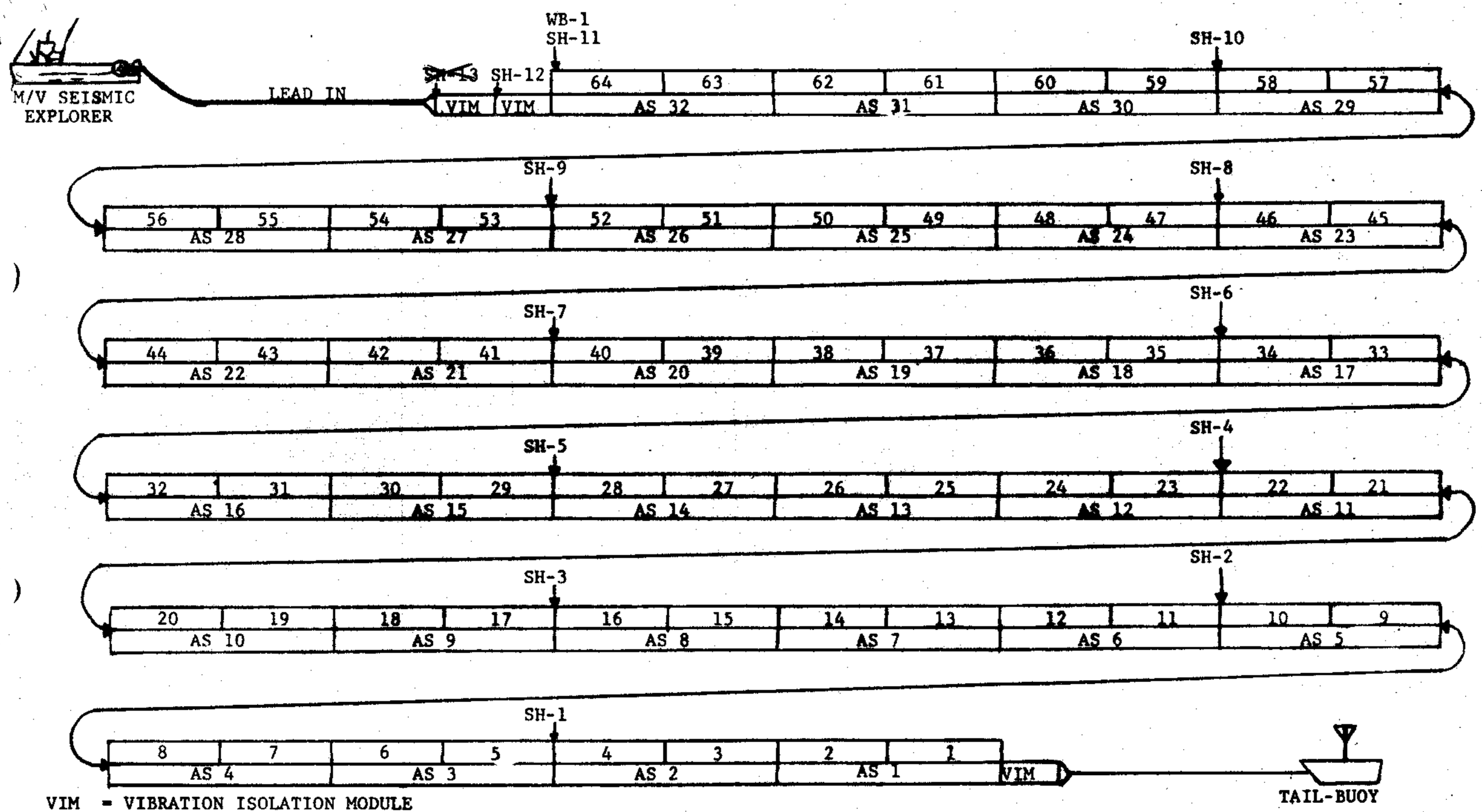
Channel(s)	INFORMATION
1-64	Seismic Data
Aux. 1	Timing Word
Aux. 2	W/B Sum
Aux. 3	Time Break
Aux. 4	Gun Phone Sum
Aux. 5	50 Hz.

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



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. 4 DATE: 17 AUG 79
CLIENT: USGS
BASE COURSE: 17°
LOCATION: MAFLA OCS

M/V SEISMIC EXPLORER

PAGE 1 OF 1
REEL No. 361 - 369

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																	361	1	CABLE NOISE
1	001	1331	31	29	30	30	31	28	28	31	28	22	32	30	029°	173°	429			FIRST SHOT OF LINE
40	040	1333	30	28	30	30	30	27	27	31	29	22	32	30	030°	170°	413			
80	080	1346	31	28	30	30	31	28	29	31	29	22	32	30	030°	171°	398			
85	085																	361	1	EOT
86	086																	362	2	BOT
88	088			280 cu. in GUN out																
120	120	1359	31	29	32	31	32	29	28	31	28	22	30	29	029°	170°	378			
160	160	1411	31	29	32	31	32	29	29	31	30	22	31	29	029°	170°	351			
170	170																	362	2	EOT
171	171																	363	1	BOT
200	200	1422	31	29	31	31	31	29	28	30	28	22	30	29	029°	171°	310			
240	240	1434	31	29	30	30	31	28	28	31	28	22	31	29	026°	172°				
255	255																	363	1	EOT
256	256																	364	2	BOT
280	280	1445	31	29	32	31	32	29	29	31	29	22	31	29	025°	173°	309			
320	320	1457	31	29	31	30	31	28	29	31	29	22	31	30	026°	171°	263			
340	340																	364	2	EOT
341	341																	365	1	BOT
360	360	1508	31	29	32	31	32	29	29	31	29	22	31	30	026°	172°	253			
400	400	1519	31	29	32	31	32	29	29	32	30	22	32	30	029°	170°	241			
425	425																	365	1	EOT
426	426														026°	171°		366	2	BOT
440	440	1530	31	29	32	31	33	30	29	31	29	22	31	29	026°	171°	246			
480	480	1541	31	29	32	32	32	30	29	31	29	22	30	29	025°	171°	238			
510	510																	366	2	EOT
511	511																	367	1	BOT
520	520	1551	31	29	32	31	31	28	27	31	29	22	32	31	026°	170°	224			
560	560	1603	31	30	32	31	31	28	28	32	29	22	32	30	024°	173°	194			
595	595																	367	1	EOT
596	596																	368	2	BOT
600	600	1613	31	29	31	30	32	28	27	31	30	23	32	31	022°	169°	180			
640	640	1624	31	29	31	30	32	29	31	31	29	22	32	32	023°	173°	163			
680	680																	368	2	EOT
681	681	1636	31	29	30	30	31	28	31	31	29	22	32	31	023°	173°	157	369	1	BOT
720	720	1647	31	29	31	31	32	30	32	32	30	22	31	31	023°	172°	150			
757	757	1657																		LAST SHOT OF LINE
	758																			CABLE NOISE
																				two TAPE marks