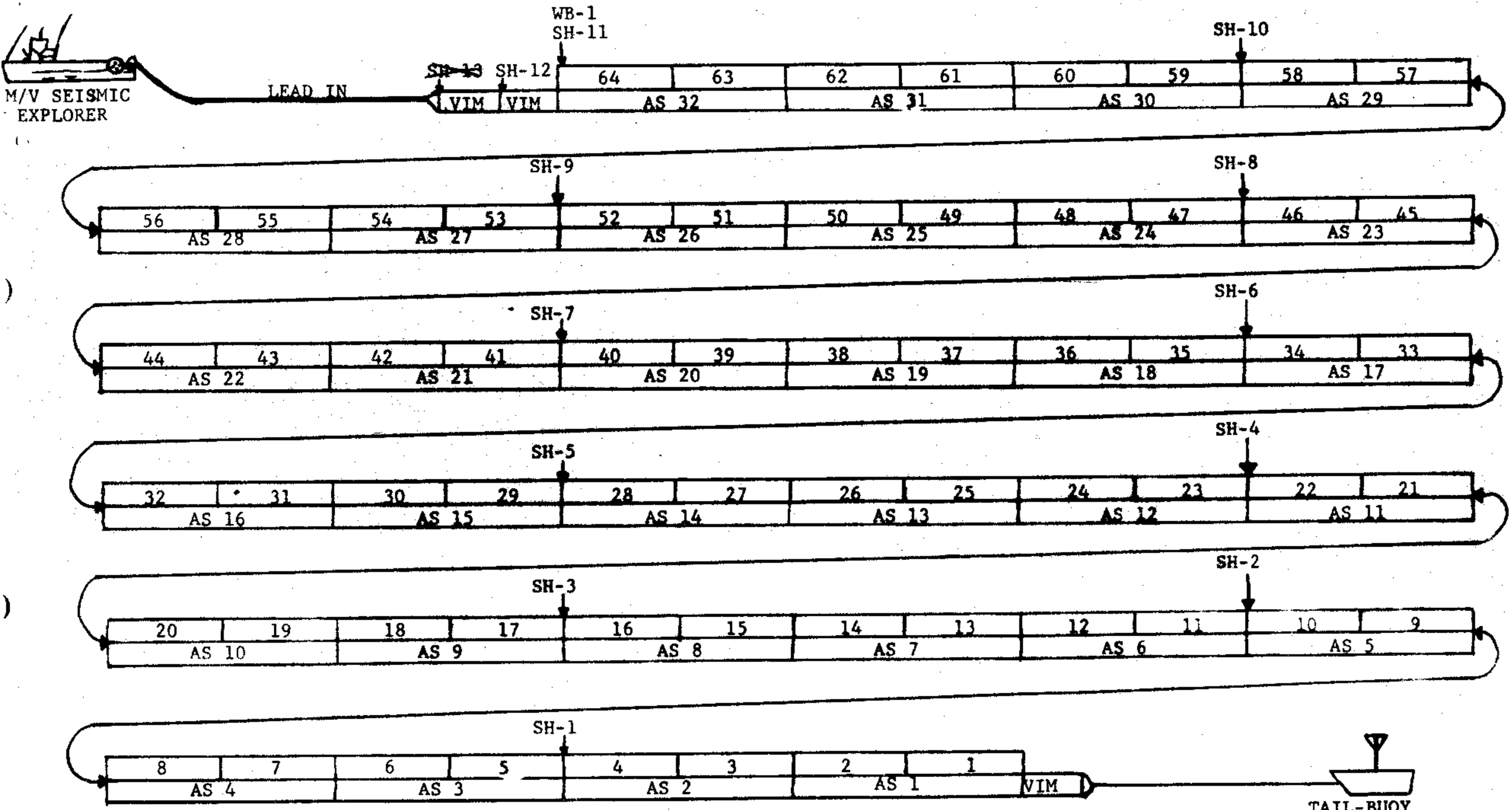


VIM = VIBRATION ISOLATION MODULE
AS = ACTIVE SECTION
1-64 = 50 METER GROUPS
SH = SEAHAWK DEPTH CONTROLLER
WB = WATER BREAK

OBSERVER'S LOG

AREA: GULF OF MEXICO
LINE No. 12 DATE: 11 AUG 79
CLIENT: USGS
BASE COURSE: 67°
LOCATION: MAFLA OCS

M/V SEISMIC EXPLORER

REEL No. 253-261

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																	253	1	CABLE NOISE
NOTE: THERE ARE TWO FILE 000's. FILE COUNTER DID NOT ADVANCE AT START																				
1	000	1530	29	31	30	28	30	32	30	29	29	31	31	31	62°	179°	122			FIRST SHOT OF LINE
5	[redacted]	FILE NUMBER ERRONEOUS DUE TO PARITY																		PE
6	005	FILE NUMBER DOES NOT AGREE W/ SP.																		
20	020	RESET FILE COUNTER FILE [redacted] 019 DOES NOT EXIST																		
40	040	1541	29	30	30	28	30	32	32	30	30	30	30	31	61°	184°	122			
80	080	1552	29	30	30	29	30	31	31	30	30	30	31	31	61°	183°	120			
85	085																	253	1	EOT
86	086																	254	2	BOT
120	120	1603	28	30	30	28	29	30	29	30	30	31	31	31	62°	183°	120			
160	160	1613	29	30	30	28	30	30	30	29	28	29	31	32	64°	182°	121			
170	170																	254	2	EOT
171	171																	255	1	BOT
200	200	1624	28	30	29	27	29	27	27	27	28	29	30	31	65°	180°	121			
240	240	1635	28	30	30	27	29	29	31	31	33	31	31	32	65°	180°	119			
255	255																	255	1	EOT
256	256																	256	2	BOT
280	280	1646	28	30	31	29	30	30	30	29	31	29	30	31	62°	181°	115			
320	320	1657	28	30	30	29	29	28	28	29	31	29	30	31	63°	181°	114			
340	340																	256	2	EOT
341	341																	257	1	BOT
[redacted]																				
360	360	1708	28	29	29	26	29	29	30	29	32	30	30	30	64°	181°	115			
400	400	1719	28	30	30	32	30	32	33	30	31	29	28	28	64°	181°	108			
425	425																	257	1	EOT
426	426																	258	2	BOT
440	440	1730	29	30	30	32	30	30	28	29	31	29	28	28	68°	177°	100			
480	480	1740	28	30	30	32	30	33	31	31	33	30	28	28	62°	184°	98			
510	510																	258	2	EOT
511	511																	259	1	BOT
520	520	1751	29	30	31	32	30	29	28	29	31	29	28	27	65°	180°	104			
560	560	1802	29	31	30	31	29	28	29	28	30	28	28	28	64°	180°	104			
595	595																	259	1	EOT
596	596																	260	2	BOT
600	600	1813	28	30	30	31	30	30	30	29	31	29	28	27	65°	180°	104			
640	640	1824	28	30	31	32	30	30	30	29	30	29	28	27	66°	180°	104			
680	680	1835	28	30	31	31	29	29	31	30	32	29	28	27	64°	180°	104	260	2	EOT
681	681																	261	1	BOT
720	720	1846	28	30	31	31	32	29	28	29	31	29	28	27	65°	179°	104			

OBSERVER'S LOG

AREA: GULF OF MEXICO
LINE No. 12 DATE: 11 AUG 79
CLIENT: USGS
BASE COURSE: 67°
LOCATION: MAFLA OCS

M/V SEISMIC EXPLORER

PAGE 2 OF 2
REEL No. 261-264

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
760	760	1857	28	29	30	31	30	33	29	28	30	28	28	27	64°	180°	104	261	1	
765	765																			EOT
766	766																	262	2	BOT
800	800	1908	28	30	30	32	29	27	29	29	30	28	27	27	65°	180°	103			
840	840	1919	28	29	30	32	30	33	30	29	30	28	27	27	65°	180°	98			
850	850																	262	2	EOT
851	851																	263	1	BOT
880	880	1931	28	30	31	32	30	30	32	31	32	29	27	27	64°	179°	95			
920	920	1942	28	30	31	32	30	30	29	29	32	29	28	27	67°	178°	95			
935	935																	263	1	EOT
936	936																	264	2	BOT
942	942	1948	BROKE LINE 463 CU IN GUN OUT.																	
																				two tape marks

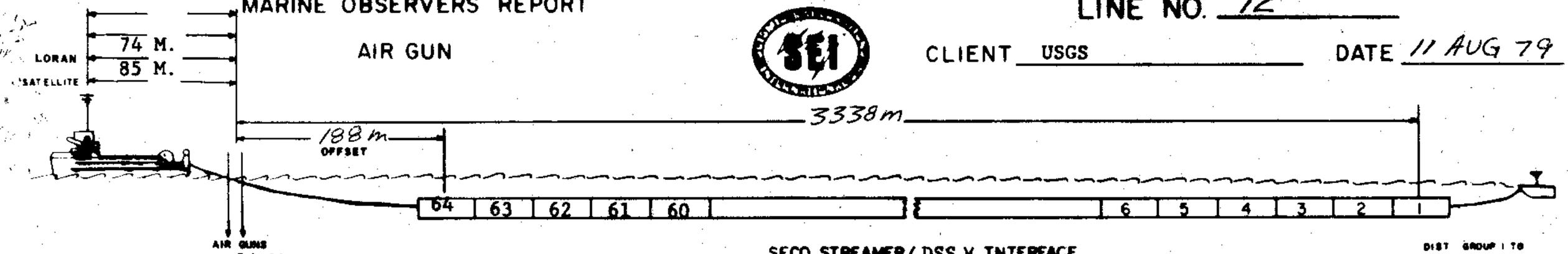
MARINE OBSERVERS REPORT

AIR GUN

LINE NO. 12

CLIENT USGS

DATE 11 AUG 79



SAT NAV ANTENNA HGT 14 M. ABOVE GEOID

AREA Gulf of Mexico LOCATION MAFLA OCS

MOTOR VESSEL SEISMIC EXPLORER DIRECTION RECORDED 67°

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 942 - 463 CU.IN GUN out. Stopped shooting.

REFERENCE VOLTAGE: 400 uv

1st SP 1 FILE # 000 REEL # 253 TIME: 1530 GMT

LAST SP 942 FILE # 942 REEL # 264 TIME: 1948 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 HUTCHINS

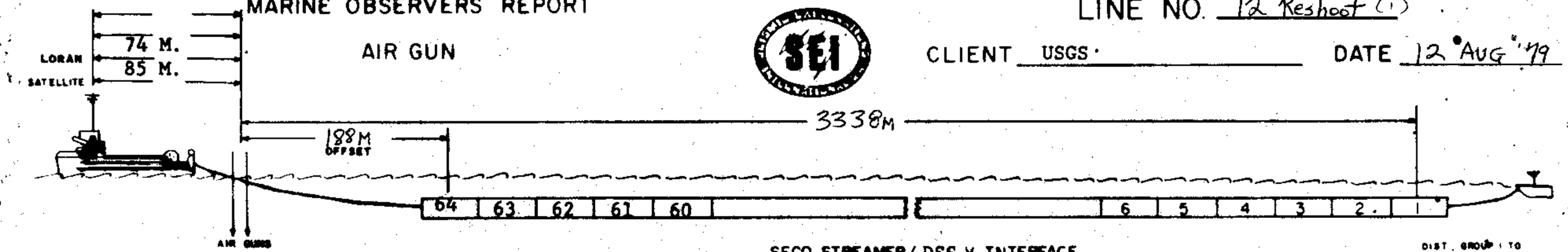
MARINE OBSERVERS REPORT

AIR GUN

LINE NO. 12 Reshoot (1)

CLIENT USGS

DATE 12 AUG '79



AREA Gulf of Mexico LOCATION MAFLA OCS

MOTOR VESSEL SEISMIC EXPLORER DIRECTION RECORDED 67°

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

SP942A - Last 'A' shot point

SP1510 - Last good shot point

SP1511 - 1558 (Files 602 - 649) are No good

SP 1558 - Broke Line; 463 cu. in. gun leaking.

REFERENCE VOLTAGE: 400 uv

1st SP 910A FILE # 001 REEL # 265 TIME 2257 GMT

LAST SP 1510 FILE # 601 REEL # 272 TIME 0156 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 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

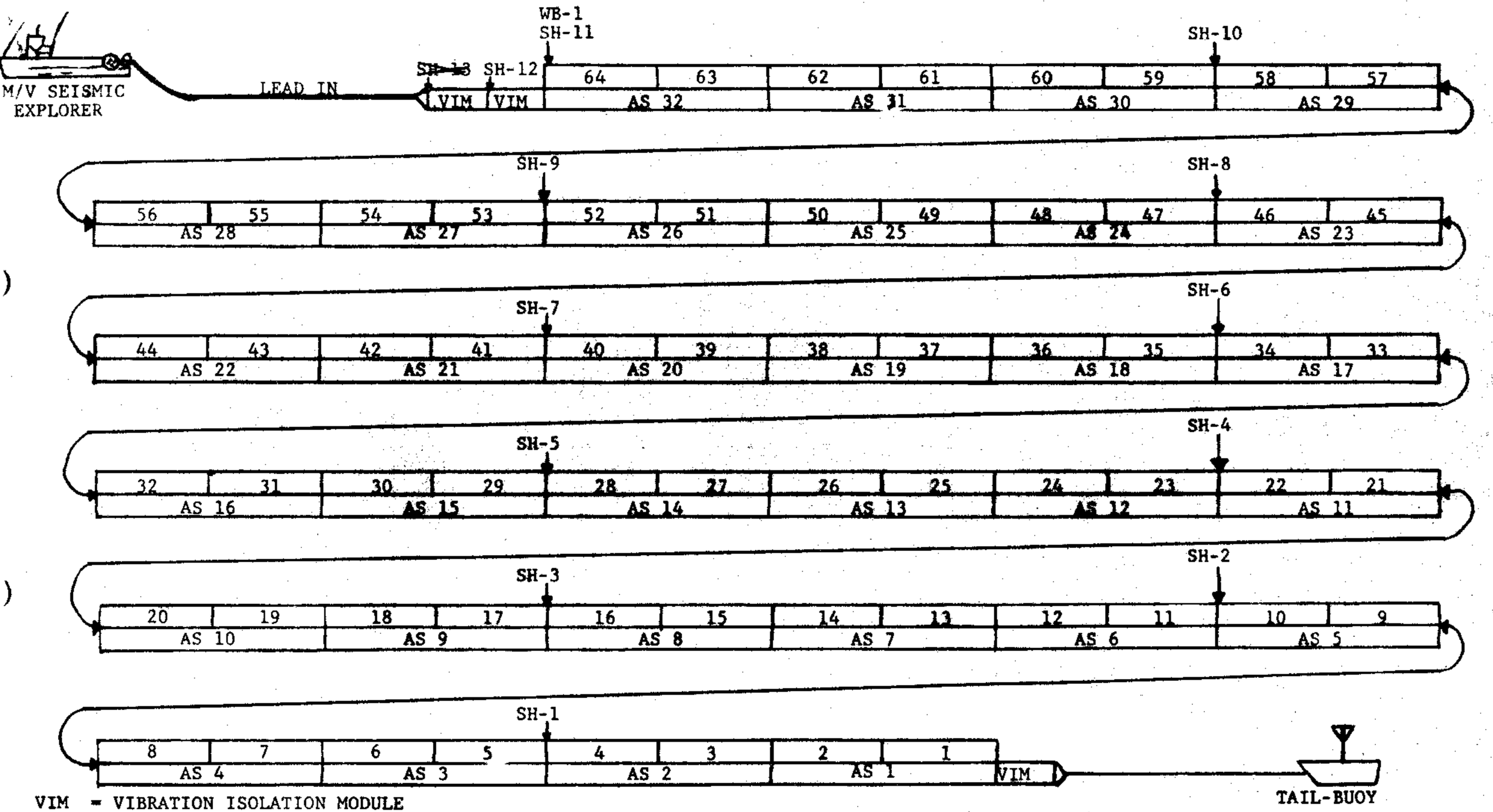
Channel(s)	INFORMATION
1-64	Seismic Data
Aux. 1	Timing Word
Aux. 2	W/B Sum
Aux. 3	Time Break
Aux. 4	Gun Phone Sum
Aux. 5	50 Hz.

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 / 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. 12 Reshot DATE: 11 AUG '79
CLIENT: USGS
BASE COURSE: 67°
LOCATION: MAFLA OCS

SEI

M/V SEISMIC EXPLORER

PAGE 1 OF 1
REEL No. 265-272

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																	265	1	BOT CABLE NOISE
910A	001	2257	32	31	30	29	30	28	27	27	29	30	31	31	67°	177°	95			First 'A' shot
942A	032	2307																		Last 'A' shot point
949	040	2309	32	32	31	31	32	31	31	27	28	29	31	31	67°	178°	91			
989	080	2321	32	31	30	30	31	29	29	27	28	30	30	30	63	176	94			
994	085																	265	1	EOT
995	086																	266	2	BOT
1029	120	2333	31	30	30	31	31	33	32	32	30	30	30	30	67°	178°	89			
1069	160	2345	32	32	32	31	31	29	32	32	29	30	30	30	67°	176°	113			
1079	170																	266	2	EOT
1080	171																	267	1	BOT
1199	200	2357	32	32	31	30	31	29	31	31	29	30	30	29	68°	178°	90			
1149	240	0008	31	31	31	30	30	29	31	31	30	30	30	30	68°	178°	87			
1164	255																	267	#1	EOT
1165	256																	268	2	BOT
1189	280	0020	33	31	30	31	31	29	31	31	30	30	30	30	68°	177°	81			
1229	320	0032	32	32	31	31	31	30	28	28	30	31	31	31	70°	176°	80			
1249	340																	268	2	EOT
1250	341																	269	1	BOT
1269	360	0044	31	32	31	32	32	31	31	29	32	28	32	31	70°	175°	76			
1309	400	0056	31	33	32	31	32	30	31	29	31	32	33	31	69°	178°	76			
1334	425																	269	1	EOT
1335	426																	270	2	BOT
1349	440	0108	32	33	31	32	32	32	32	29	32	32	32	31	68°	179°	79			
1389	480	0120	31	33	32	32	32	30	30	29	31	32	32	31	68°	180°	75			
1419	510																	270	2	EOT
1420	511																	271	1	BOT
1429	520	0132	33	32	33	33	32	31	31	29	32	32	32	31	66°	180°	75			
1469	560	0144	31	33	32	32	32	30	31	29	31	31	31	30	68°	180°	71			
1504	595																	271	1	EOT
1505	596																	272	2	BOT
1509	600	0156	31	33	32	32	32	30	30	29	31	31	32	31	67°	179°	69			
1549	640	0207	32	33	32	32	32	31	32	29	31	32	31	30	70°	177°	60			
1558	649	0210	BROKE LINE - 463 cu. in Air gun Leaking																	LAST SHOT POINT/ FILE ON TAPE.
			(FILES 600 through 649 are No good. SP1510 is Last Good shot point.)																	
																				Two tape marks

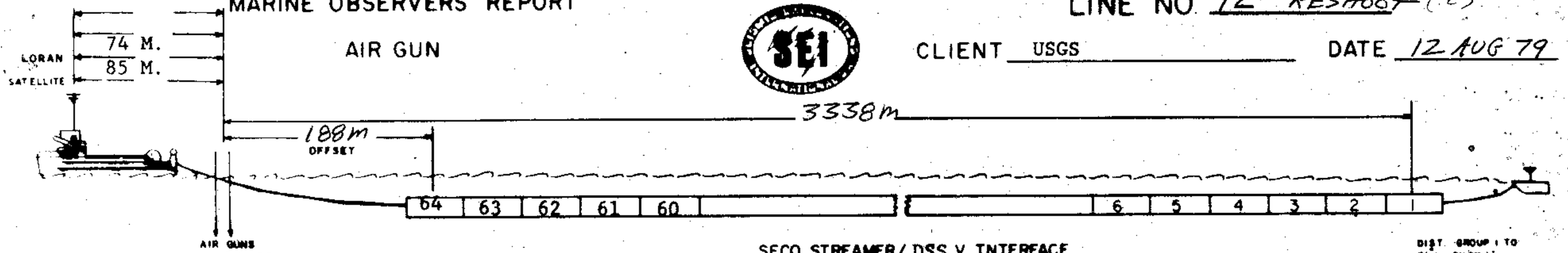
MARINE OBSERVERS REPORT

AIR GUN

LINE NO. 12 RESHOOT (2)

CLIENT USGS

DATE 12 AUG 79



AREA Gulf of Mexico LOCATION MAFLA OCS

MOTOR VESSEL SEISMIC EXPLORER DIRECTION RECORDED 67°

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
1479A - 12 cu.in. gun out

REFERENCE VOLTAGE: 400 uv

1st SP 1478A FILE # 001 REEL # 273 TIME 0427 GMT

LAST SP 2046 FILE # 569 REEL # 279 TIME 0713 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 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

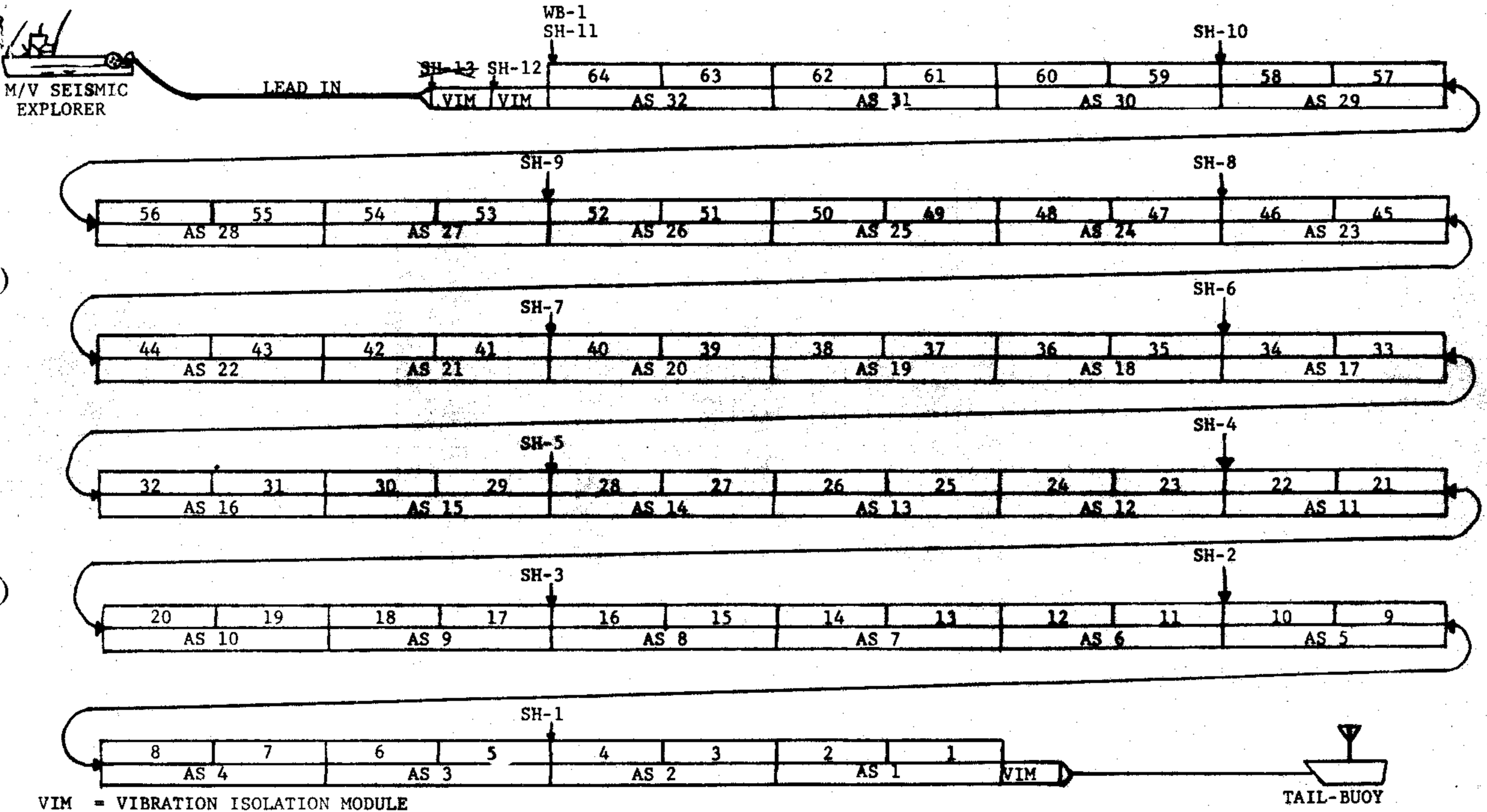
Channel(s)	INFORMATION
1-64	Seismic Data
Aux. 1	Timing Word
Aux. 2	W/B Sum
Aux. 3	Time Break
Aux. 4	Gun Phone Sum
Aux. 5	50 Hz.

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 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. 12 RESHOOT DATE: 12 AUG 79
CLIENT: USGS
BASE COURSE: 67°
LOCATION: MAFLA OCS

M/V SEISMIC EXPLORER

PAGE 1 OF 1
REEL No. 273-279

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																	273	1	CABLE NOISE
1478A	001	0427	29	29	31	30	33	30	29	30	30	29	28	X	69°	179°	70			FIRST SHOT OF LINE
1479A	002			12	cu.	in	out													
1510A	033																			LAST 'A' SHOT
1517	040	0438	31	29	30	28	30	28	28	28	29	30	30	X	69°	179°	69			
1557	080	0450	31	29	30	28	30	28	28	28	29	29	30	X	69°	180°	63			
1562	085																	273	1	EOT
1563	086																	274	2	BOT
1597	120	0501	31	29	30	28	31	33	32	29	29	29	29	X	69°	180°	66			
1637	160	0512	31	29	30	28	31	31	31	29	29	29	29	X	69°	180°	60			
1647	170																	274	2	EOT
1648	171																	275	1	BOT
1677	200	0524	30	29	31	28	31	31	31	29	29	29	29	X	69°	180°	62			
					~~[illegible]~~ RAISE CABLE TO 25 FEET															
1717	240	0535	25	25	25	25	25	25	25	25	25	24	25	X	70°	180°	55			
1732	255																	275	1	EOT
1733	256																	276	2	BOT
1757	280	0546	25	25	26	25	25	24	24	25	25	24	26	X	67°	182°	55			
1797	320	0558	25	26	25	25	25	25	25	25	25	24	25	X	68°	180	57			
1817	340																	276	2	EOT
1818	341																	277	1	BOT
1837	360	0609	25	26	26	26	25	25	26	25	25	24	25	X	66°	181°	55			
1877	400	0622	25	26	26	25	25	22	23	24	25	26	27	X	67°	177°	49			
1902	425	0631																277	1	EOT
1903	426																	278	2	BOT
1917	440	0636	24	26	26	25	24	26	24	23	24	26	26	X	71°	177°	48			
1957	480	0647	24	25	25	23	24	24	24	25	24	25	24	X	69°	180°	44			
1987	510				RAISE		CABLE		TO		20	FEET						278	2	EOT
1988	511																	279	1	BOT
1997	520	0659	21	19	19	21	21	21	19	19	20	21	22	X	70°	180°	42			
2037	560	0710	21	21	21	20	18	19	19	20	20	20	23	X	69°	179°	39			
2046	569	0713																		LAST SHOT OF LINE
	570																			CABLE NOISE