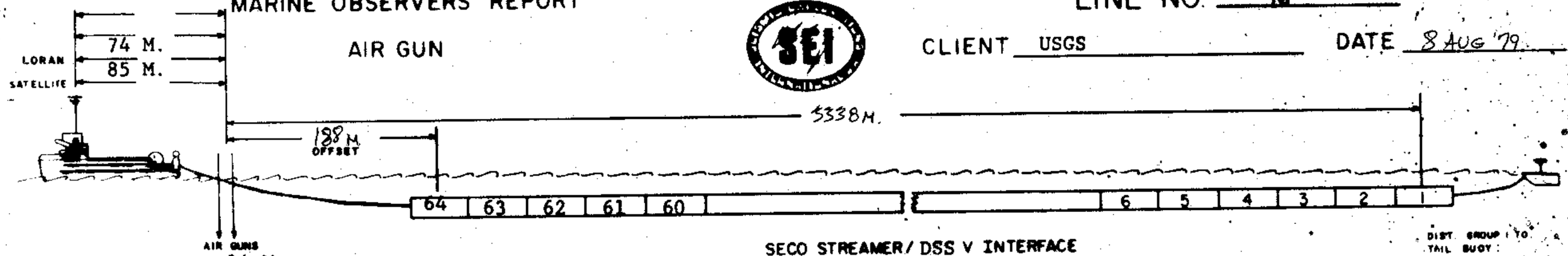
MARINE OBSERVERS REPORT

AIR GUN

LINE NO. 16

CLIENT USGS

DATE 8 AUG '79



AREA Gulf of Mexico LOCATION MAFLA OCS

MOTOR VESSEL SEISMIC EXPLORER DIRECTION RECORDED 231°

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 1 - Missed due to Sat Nav. Error
SP259 - Broke Line due to Sat. Nav. Computer HALT

REFERENCE VOLTAGE: 400 uv

1st SP 2 FILE # 002 REEL # 180 TIME: 1148 GMT

LAST SP 259 FILE # 259 REEL # 183 TIME: 1300 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

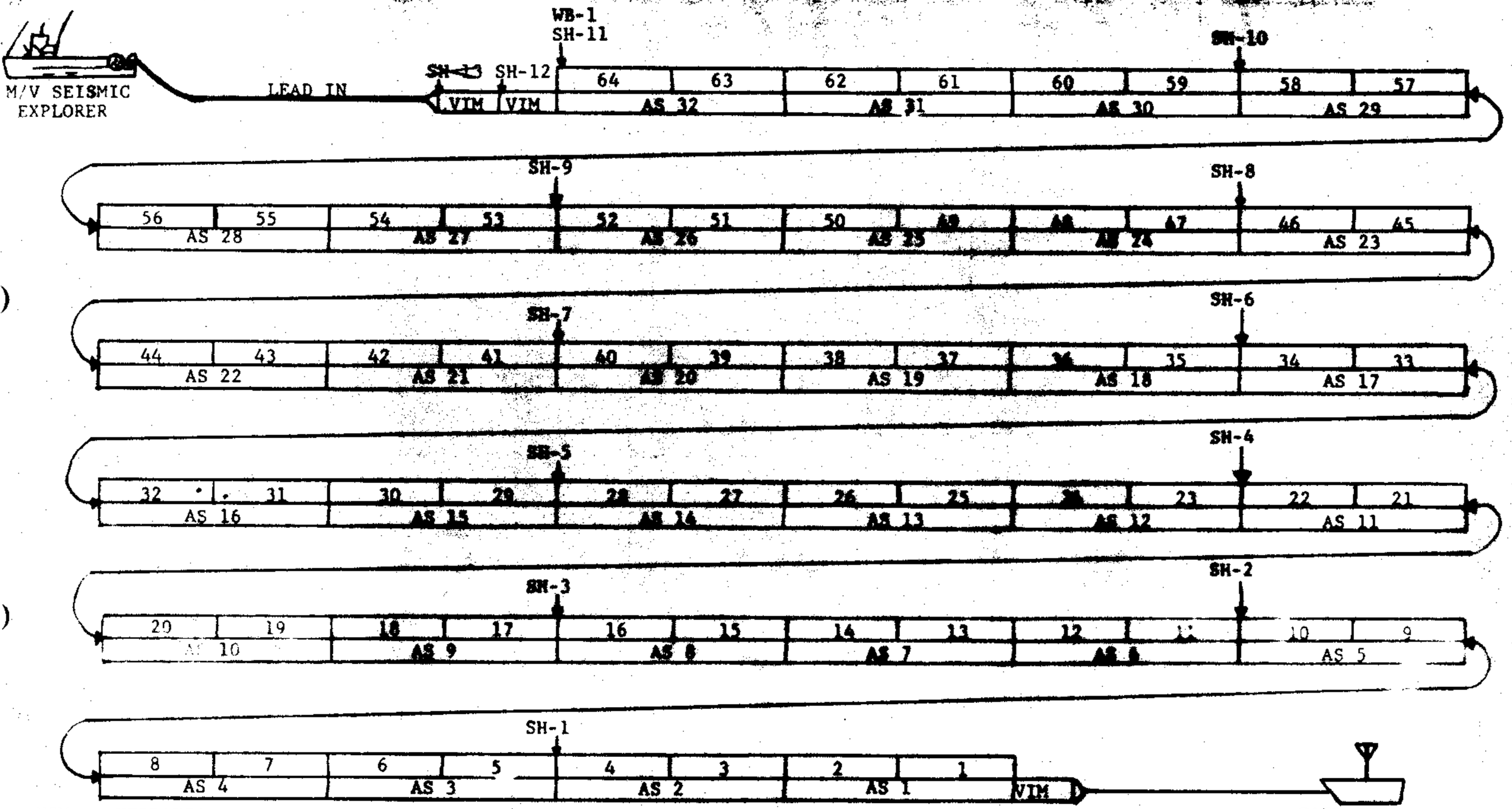
Channel(s)	INFORMATION
1-64	Seismic Data
Aux. 1	Timing Word
Aux. 2	W/B Sum
Aux. 3	Time Break
Aux. 4	Gun Phone Sum
Aux. 5	50 Hz.

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 / ABERNATHY



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. 16 DATE: 8 AUG 79
CLIENT: USGS
BASE COURSE: 231°
LOCATION: MAFLA OCS

M/V SEISMIC EXPLORER

REEL No. 180-183

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																	180	2	CABLE NOISE, BOT
			First s.p. missed because of Sat Nav error. First Record on tape @ SP 2.																	
2	001	1148	30	29	29	29	29	28	33	30	30	31	30	30	232°	176°	104			FIRST SHOT OF LINE
40	040	1158	29	29	30	30	30	31	32	30	30	30	29	30	229°	179°	102			
80	080	1209	30	30	31	31	31	33	32	30	29	29	28	30	230°	180°	108			
85	085																	180	2	EOT
86	086																	181	1	BOT
120	120	1221	30	29	29	30	30	30	31	31	31	31	29	30	231°	179°	77			
160	160	1232	30	29	29	28	29	29	31	31	30	30	29	30	229°	179°	114			
170	170																	181	1	EOT
171	171																	182	2	BOT
200	200	1243	30	30	30	30	29	31	32	30	29	29	29	30	230°	180°	117			
240	240	1254	31	30	30	30	29	28	27	29	29	29	29	30	229°	179°	110			
255	255																	182	2	EOT
256	256																	183	1	BOT
259	259	1300	BROKE LINE DUE TO SAT NAV. Computer HALTING																	Last good S.P.
																	2	TAPE		MARKS

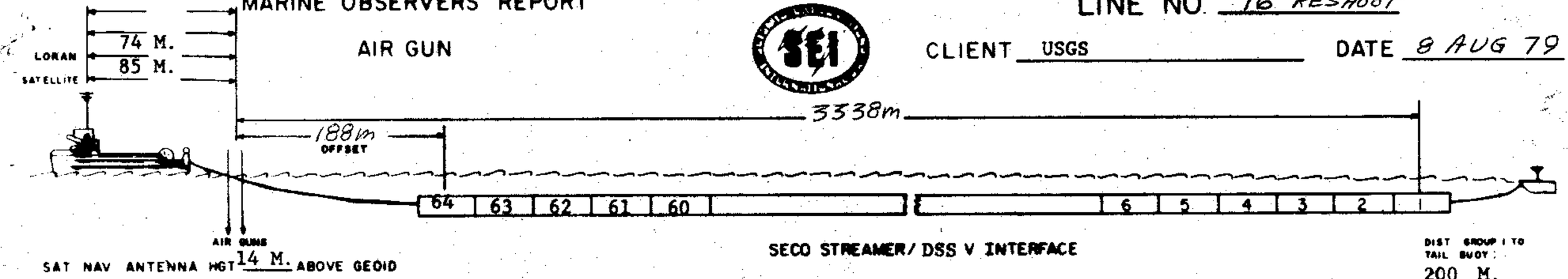
MARINE OBSERVERS REPORT

AIR GUN

LINE NO. 16 RESHOOT

CLIENT USGS

DATE 8 AUG 79



AREA Gulf of Mexico LOCATION MAFLA OCS

MOTOR VESSEL SEISMIC EXPLORER DIRECTION RECORDED 231°

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 1355 - TURN OFF 75 CU. IN GUN

REFERENCE VOLTAGE: 400 uv

1st SP 228A FILE # 001 REEL # 184 TIME: 1523 GMT

LAST SP 1646 FILE # 419 REEL # 200 TIME: 2203 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

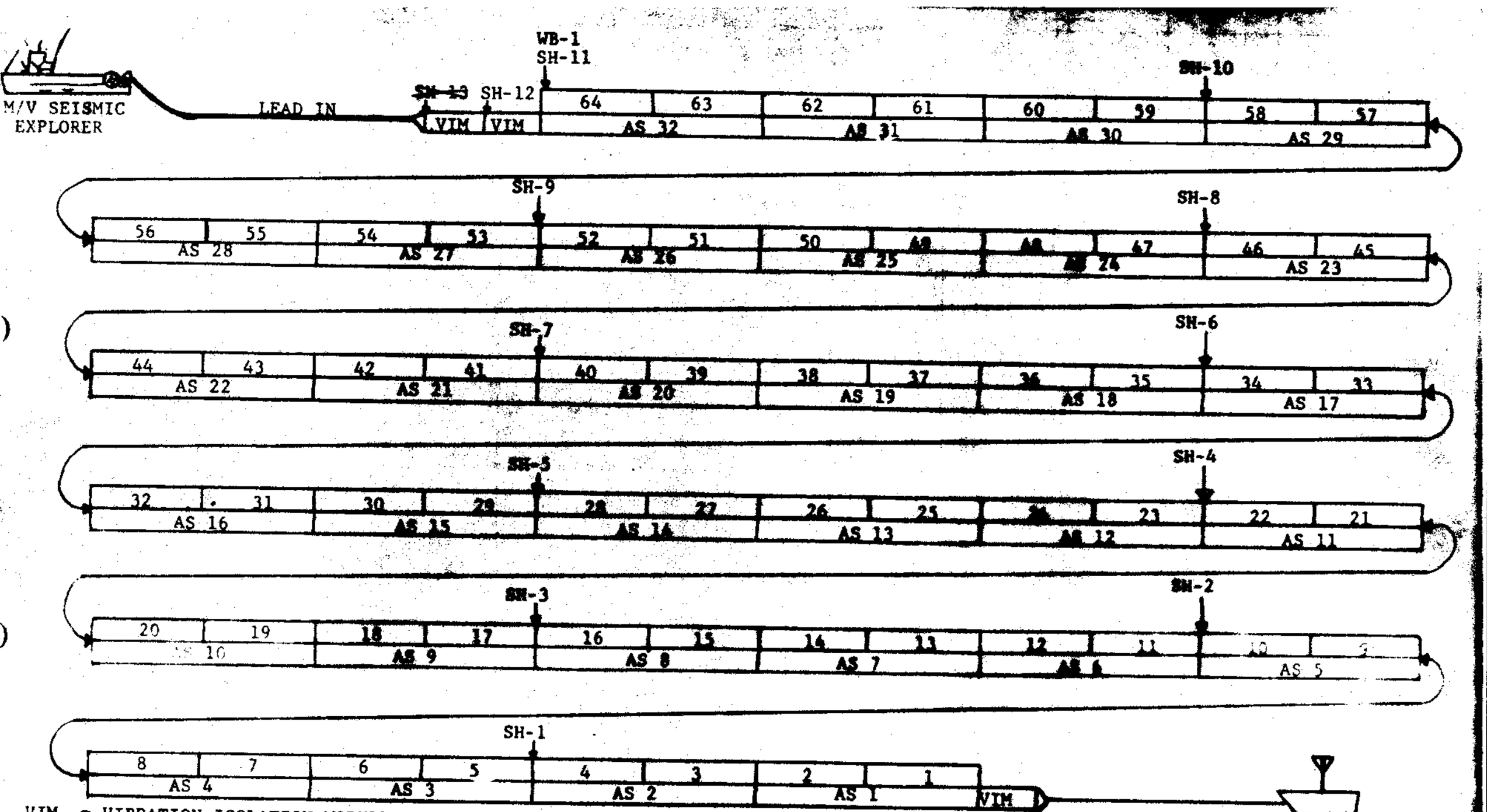
Channel(s)	INFORMATION
1-64	Seismic Data
Aux. 1	Timing Word
Aux. 2	W/B Sum
Aux. 3	Time Break
Aux. 4	Gun Phone Sum
Aux. 5	50 Hz.

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. 16 Resh DATE: 8 AUG '79
CLIENT: USGS
BASE COURSE: 231°
LOCATION: MAFLA OCS

M/V SEISMIC EXPLORER

REEL No. 184 - 194

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) FEET	REEL No.	TRANS PORT	REMARKS
	000																	184	2	BOT CABLE NOISE
228A	001	1523	27	31	31	30	30	28	28	32	32	28	30	31	230°	179°	91			First 'A' Shot
267	040	1534	27	32	33	33	33	32	33	32	30	27	29	31	229°	179°	93			
307	080	1545	27	32	33	31	32	29	30	30	27	28	29	31	228°	183°	104			
312	085																	184	2	EOT
313	086																	185	1	BOT
347	120	1556	27	32	32	31	32	30	30	30	27	27	29	31	228°	181°	124			
387	160	1607	27	32	33	31	33	31	33	33	29	29	29	31	227°	181°	108			
397	170																	185	1	EOT
398	171																	186	2	BOT
427	200	1618	28	32	31	30	31	28	29	31	31	30	29	31	227°	181°	124			
467	240	1630	27	32	31	30	32	28	28	31	31	31	30	31	228°	182°	100			
482	255																	186	2	EOT
483	256																	187	1	BOT
507	280	1641	27	32	32	32	32	30	29	32	31	30	29	31	227°	182°	110			
547	320	1652	27	32	31	31	32	29	29	32	32	31	30	31	228°	181°	125			
567	340																	187	1	EOT
568	341																	188	2	BOT
587	360	1702	27	32	32	32	33	30	28	31	29	32	31	31	227°	182°	98			
627	400	1713	27	32	32	32	33	31	30	32	29	31	31	32	231°	179°	133			
652	425																	188	2	EOT
653	426																	189	1	BOT
667	440	1724	27	32	32	32	33	32	32	32	29	29	29	31	228°	181°	100			
707	480	1735	27	31	31	31	33	31	33	33	29	31	30	31	228°	180°	122			
737	510																	189	1	EOT
738	511																	190	2	BOT
747	520	1746	27	32	31	31	32	29	30	31	28	30	30	31	228°	180°	102			
787	560	1756	27	31	31	31	33	31	30	28	30	30	29	31	227°	180°	130			
822	595																	190	2	EOT
823	596																	191	1	BOT
827	600	1807	27	31	30	30	32	32	30	29	32	31	31	32	225°	183°	100			
867	640	1818	33	31	30	33	30	27	31	28	31	31	30	31	225°	183°	84			
907	680	1829	32	30	30	29	31	27	27	27	29	28	30	32	225°	183°	110	191	1	EOT
908	681																	192	2	BOT
947	720	1840	31	31	32	32	32	27	30	28	30	28	29	31	225°	182°	146			
987	760	1851	32	32	32	31	31	30	30	28	30	30	31	32	225°	182°	165			Time Break Error
992	765																	192	2	EOT
993	766																	193	1	BOT
1027	800	1901	33	32	32	31	31	30	30	28	30	30	30	31	227°	182°	142			
1067	840	1912	32	32	31	30	31	30	31	28	31	31	30	31	226°	181°	119			
1077	850																	193	1	EOT
1078	851																	194	2	BOT

OBSERVER'S LOG

AREA: Gulf of Mexico
LINE No. 116 Reshot DATE: 8 AUG '79
CLIENT: USGS
BASE COURSE: 231°
LOCATION: MAFLA OCS

M/V SEISMIC EXPLORER

REEL No. 194-200

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
1107	880	1922	33	32	31	31	32	31	30	28	30	29	30	32	227°	182°	177	194	2	
1147	920	1933	31	30	30	29	30	28	30	31	30	28	29	31	226°	182°	120			
1162	935																	194	2	EOT
1163	936																	195	1	BOT
1187	960	1945	32	31	30	28	29	27	28	30	29	28	30	32	226°	182°	182			
1227	000	1957	30	29	30	29	30	27	29	29	29	28	30	32	225°	182°	183			
1247	020																	195	1	EOT
1248	021	[redacted]	30	30	31	33	31	31	31	32	32	32	31	33	226	181°	184	196	2	BOT
1267	040	2009																		
1307	080	2021	31	29	29	31	30	29	27	29	30	30	31	33	224°	183°	189			
1326	099																			PE
1332	105																	196	2	EOT
1333	106																	197	1	BOT
1347	120	2033	31	30	29	27	30	27	30	30	30	29	30	32	223°	182°	201			
1355	128			TURN	OFF					75 CU. IN GUN										
1387	160	2046	31	30	30	31	31	31	30	30	29	29	30	32	226°	180°	195			
1417	190																	197	1	EOT
1418	191																	198	2	BOT
1427	200	2057	33	31	30	27	31	29	29	30	30	28	28	29	225°	181°	201			
1467	240	2109	32	31	31	32	32	32	31	31	30	29	29	30	225°	182°	203			
1502	275																	198	2	EOT
1503	276																	199	1	BOT
1507	280	2121	32	31	31	32	32	31	30	30	30	30	30	30	225°	183°	203			
1547	320	2133	32	30	31	32	32	31	31	32	33	33	30	31	226°	183°	215			
1587	360	2145	32	31	30	32	32	32	31	30	29	28	28	29	226°	183°	228	199	1	EOT
1588	361																	200	2	BOT
1627	400	2157	32	31	31	31	32	33	32	32	31	31	29	30	226°	183°	234			
1646	419	2203																		LAST SHOT OF LINE
	420																			CABLE NOISE
																				TWO TAPE MARKS