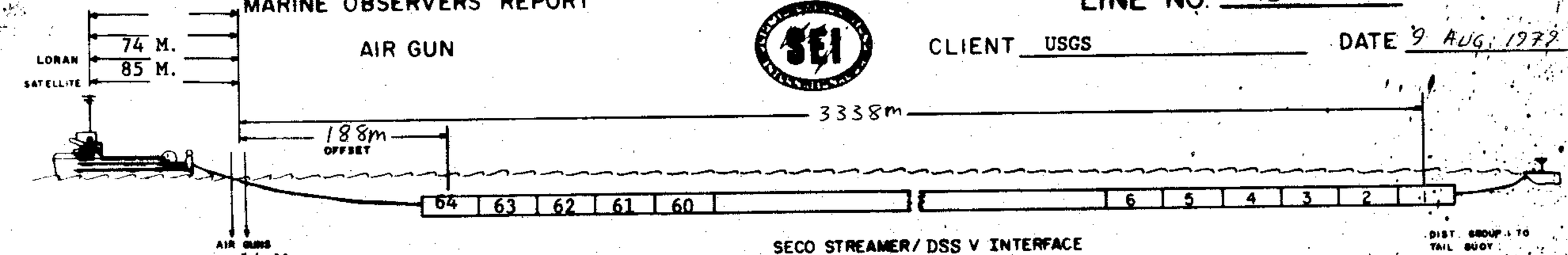
MARINE OBSERVERS REPORT

AIR GUN

LINE NO. 15

CLIENT USGS

DATE 9 AUG. 1979



SAT NAV ANTENNA HGT 14 M. ABOVE GEOID

AREA Gulf of Mexico LOCATION MAFLA OCS

MOTOR VESSEL SEISMIC EXPLORER DIRECTION RECORDED 252°

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

BROKE LINE @ SP 191, 463 in.³ GUN DOWN

REFERENCE VOLTAGE: 400 uv

1st SP 1 FILE # 001 REEL # 201 TIME: 0402 GMT

LAST SP 204 FILE # 204 REEL # 203 TIME: 0458 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

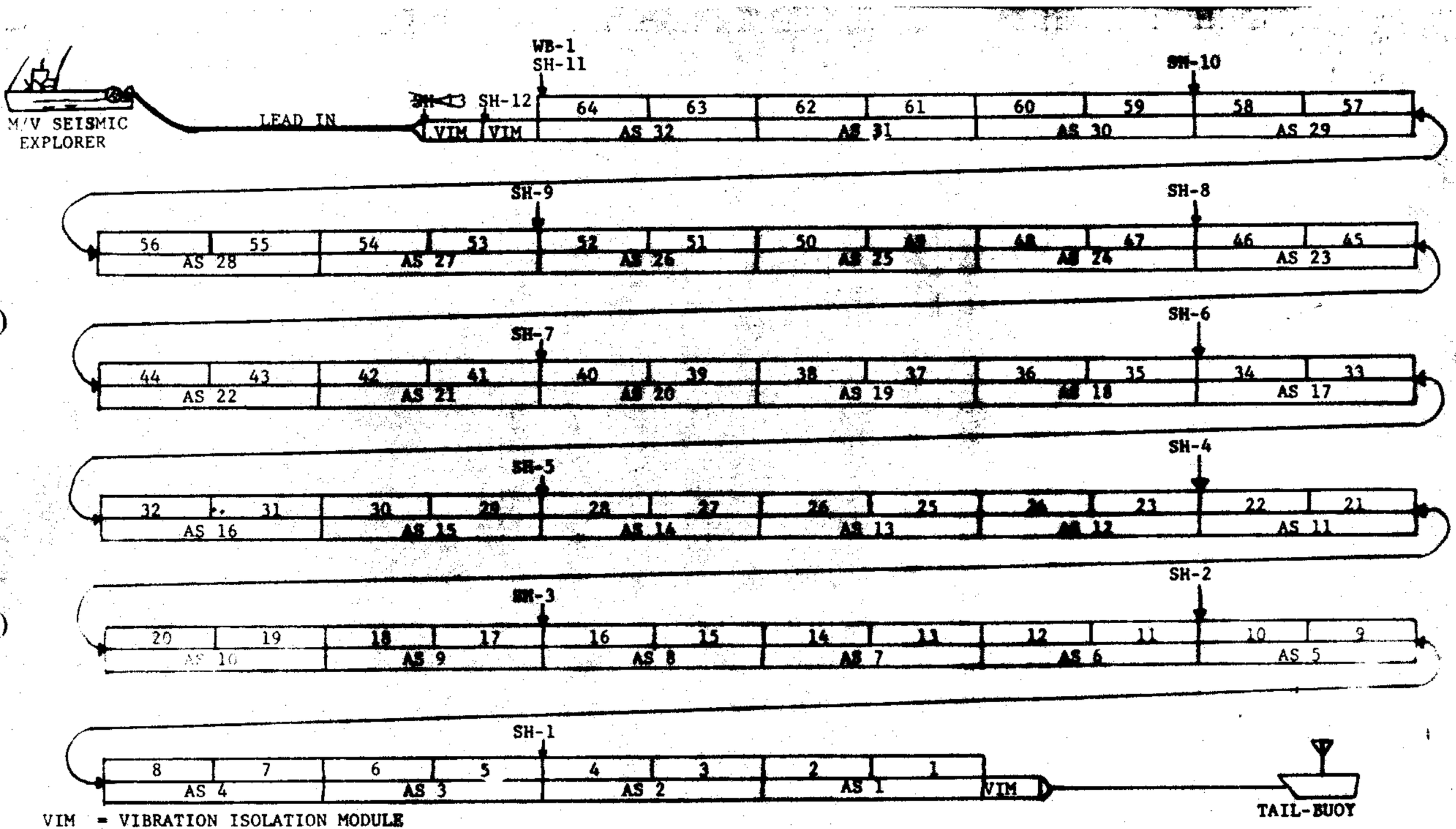
Channel(s)	INFORMATION
1-64	Seismic Data
Aux. 1	Timing Word
Aux. 2	W/B Sum
Aux. 3	Time Break
Aux. 4	Gun Phone Sum
Aux. 5	50 Hz.

Monitor Record Every 40 Pos.

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. 15 DATE: 9 AUG 79
CLIENT: USGS
BASE COURSE: 252°
LOCATION: MAFLA OCS

WATER DEPTH IN METERS

M/V SEISMIC EXPLORER

REEL No. 201-203

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 (MTR)	REEL No.	TRANS PORT	REMARKS
	000																	201	1	CABLE NOISE
1	001	0402	31	31	31	29	30	30	29	30	32	31	31	30	254°	183°	68			FIRST SHOT OF LINE
40	040	0413	31	31	31	31	31	32	31	30	30	29	29	29	252°	184°	73			
80	080	0424	31	30	30	29	29	29	28	28	29	28	29	29	253°	183°	76			
85	085																	201	1	EOT
86	086																	202	2	BOT
120	120	0435	31	30	30	28	29	30	29	29	29	29	30	30	253°	181°	76			
160	160	0446	31	30	30	29	30	31	31	30	30	30	30	30	250°	181°	80			
170	170																	202	2	EOT
171	171																	203	1	BOT
192	192		463 cu.in. gun down on Starboard side																	
200	200	0457	31	30	30	29	29	29	29	30	30	30	30	30	251°	181°	81°			
204	204	0458	SP 192 - 204 No good. Last Good SP @ 191																	
			BROKE LINE DUE TO AIR GUN FAILURE																	

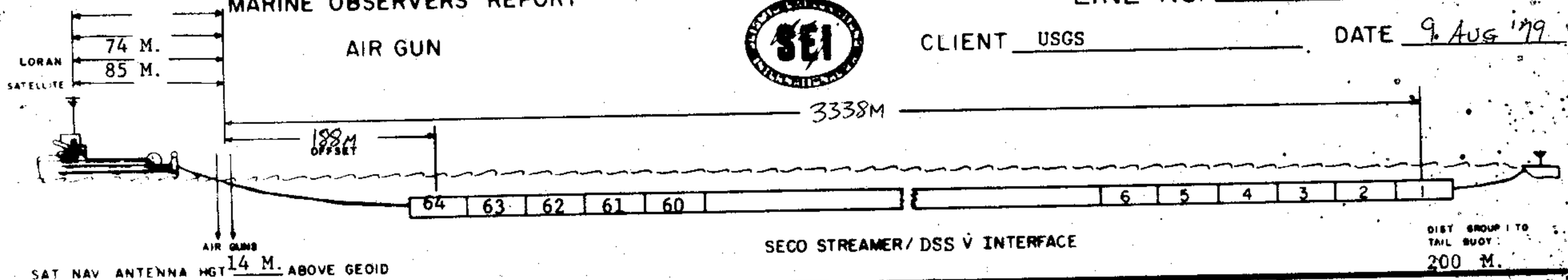
MARINE OBSERVERS REPORT

AIR GUN

LINE NO. 15 Reshoot

CLIENT USGS

DATE 9 Aug '79



SAT NAV ANTENNA HGT 14 M. ABOVE GEOID

AREA Gulf of Mexico LOCATION MAFLA OCS

MOTOR VESSEL SEISMIC EXPLORER DIRECTION RECORDED 252°

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 741 - Turned off 15 cu. in gun

SP 771 - Ship Noise

SP 1008 - Trace #32 bad

SP 2558 - Introduced 3 sec. delay into data Line Scan Recorder

REFERENCE VOLTAGE 400 uv

1ST SP 159A FILE # 001 REEL # 204 TIME 1228 GMT

LAST SP 2821 FILE # 663 REEL # 235 TIME 0112 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

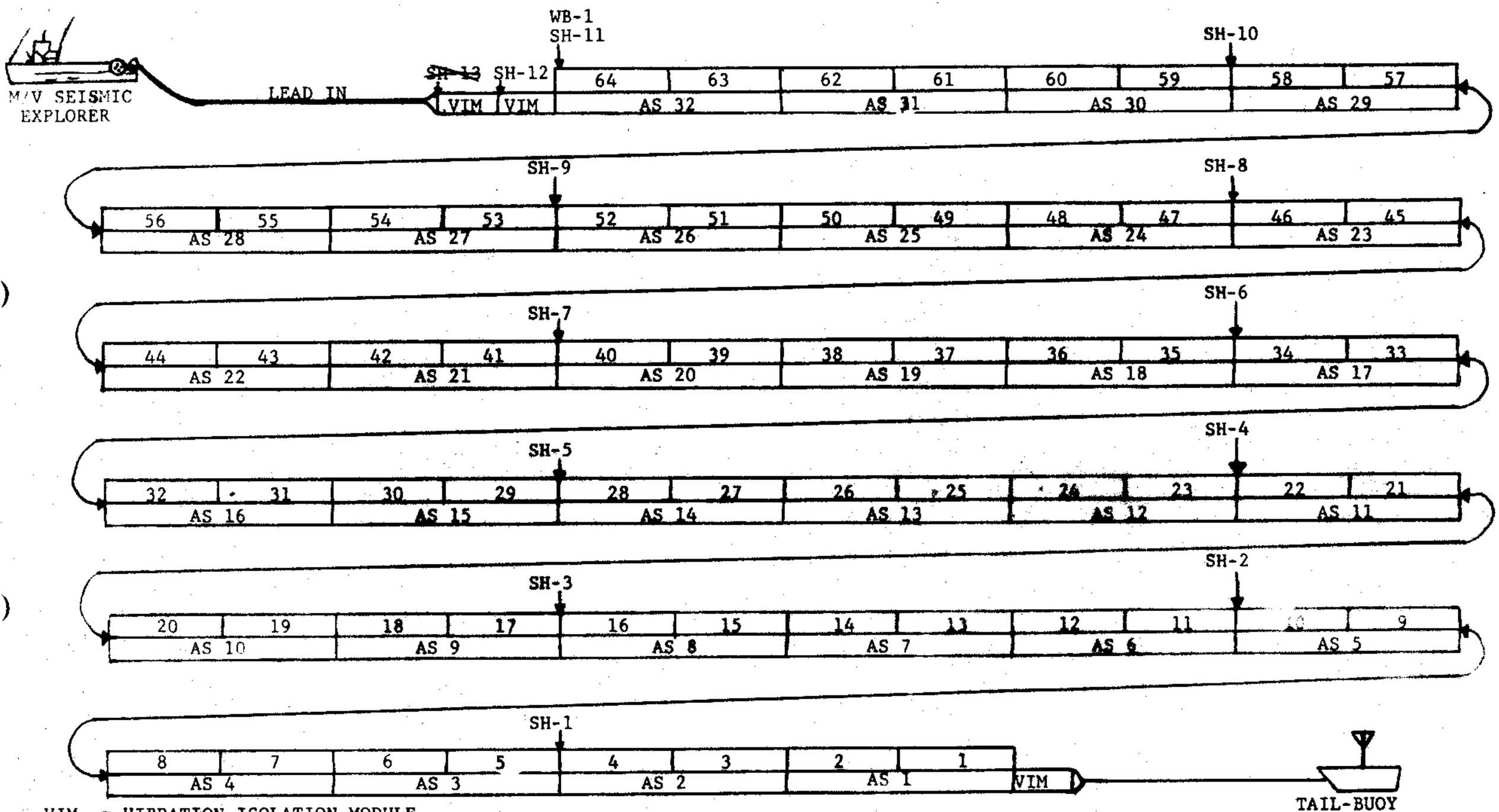
Channel(s)	INFORMATION
1-64	Seismic Data
Aux. 1	Timing Word
Aux. 2	W/B Sum
Aux. 3	Time Break
Aux. 4	Gun Phone Sum
Aux. 5	50 Hz.

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/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. 15 Reshoot DATE: 9 AUG '79
CLIENT: USGS
BASE COURSE: 252°
LOCATION: MAFLA OCS

M/V SEISMIC EXPLORER

REEL No. 204 - 211

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 (MTR) (METERS)	REEL No.	TRANS PORT	REMARKS
	000																	204	2	CABLE NOISE
159A	001	1228	30	30	30	29	28	28	28	29	28	29	29	30	249°	183°	79			First 'A' Shot
191A	033	1237																		LAST 'A' SHOT
198	040	1239	30	29	29	28	30	29	31	32	32	32	31	30	256°	178°	82			
238	080	1251	30	30	30	27	28	31	30	28	29	29	30	30	246°	186°	81			
243	085																	204	2	EOT
244	086																	205	1	BOT
278	120	1301	30	31	31	30	28	30	28	30	31	29	29	29	248°	178°	82			
318	160	1313	30	30	30	31	31	31	32	32	31	29	28	28	248°	177°	81			
328	170																	205	1	EOT
329	171																	206	2	BOT
358	200	1324	30	30	31	31	30	29	30	31	30	28	28	28	248°	179°	81			
398	240	1335	30	29	30	29	30	29	29	30	30	29	29	29	248°	179°	89			
413	255																	206	2	EOT
414	256																	207	1	BOT
438	280	1347	30	30	31	30	30	29	29	30	31	29	28	28	247°	180°	93			
478	320	1358	31	31	31	32	30	29	29	31	31	29	28	28	249°	178°	93			
498	340																	207	1	EOT
499	341																	208	2	BOT
518	360	1410	30	29	30	30	31	30	29	31	32	30	29	29	248°	180°	108			
558	400	1421	31	31	32	32	30	28	29	30	30	29	28	28	248°	180°	112			
583	425																	208	2	EOT
584	426																	209	1	BOT
598	440	1432	30	30	31	32	32	31	31	31	31	31	29	28	250°	178°	117			
638	480	1443	30	29	30	31	31	30	30	30	30	30	29	29	247°	181°	123			
668	510																	209	1	EOT
669	511																	210	2	BOT
678	520	1454	30	30	31	31	31	31	29	29	30	29	29	28	248°	176°	128			
718	560	1505	30	29	30	29	30	29	28	29	29	29	30	29	248°	181°	135			
735	577																			AF
736	578																			AF
738	580																			AF
739	581																			AF
740	582																			AF
741	583		TURN OFF 15 COIN GUN																	AF
753	595																	210	2	EOT
754	596																	211	1	BOT

OBSERVER'S LOG

AREA: GULF OF MEXICO
LINE No. 15 RESHOOT DATE: 9 AUG 79
CLIENT: USGS
BASE COURSE: 252°
LOCATION: MAFLA OCS

M/V SEISMIC EXPLORER

REEL No. 211-220

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 (MTR)	REEL No.	TRANS PORT	REMARKS
758	600	1517	30	30	31	30	30	29	28	31	31	30	30	30	249°	180°	139	211	1	
771	613		SHIP				NOISE													
798	640	1528	30	30	30	29	31	32	30	31	31	30	30	30	248°	182°	141			
838	680	1539	30	30	30	31	31	30	27	30	30	30	30	30	249°	181°	142	211	1	EOT
839	681																	212	2	BOT
878	720	1551	30	30	30	30	31	28	30	30	28	30	30	30	252°	178°	142			
918	760	1602	30	29	30	29	30	30	30	29	29	29	29	29	250°	179°	145			
923	765																	212	2	EOT
924	766																	213	1	BOT
958	800	1614	30	29	31	30	31	30	31	31	31	30	30	30	250°	179°	151			
998	840	1625	30	29	30	30	31	32	31	31	30	30	31	31	250°	180°	159			
1008	850				TRACE #32				BAD									213	1	EOT
1009	851																	214	2	BOT
1038	880	1637	31	30	30	29	30	28	29	30	31	32	31	31	250°	180°	164			
1078	920	1648	30	30	30	30	31	31	31	31	31	30	30	30	250°	180°	173			
1093	935																	214	2	EOT
1094	936																	215	1	BOT
1118	960	1659	30	29	30	30	30	31	31	30	31	31	31	31	250°	181°	175			
1158	1000	1712	31	30	31	30	30	30	31	31	30	31	31	30	250°	180°	182			
1178	1020	1717	30	29	29	29	30	29	29	29	30	30	31	31	252°	180°	185	215	1	EOT
1179	1021																	216	2	BOT
1198	1040	1724	30	30	30	30	31	30	31	30	31	30	29	29	252°	180°	188			
1238	080	1735	30	30	30	30	30	27	31	31	30	30	30	30	252°	180°	195			
1263	105																	216	2	EOT
1264	106																	217	1	BOT
1278	120	1746	30	30	31	30	31	30	30	30	30	31	31	31	252°	180°	202			
1318	160	1757	30	30	30	30	30	31	29	30	30	31	31	30	254°	180°	207			
1348	190																	217	1	EOT
1349	191																	218	2	BOT
1358	200	1809	30	29	30	30	30	27	29	29	29	30	30	30	253°	180°	213			
1398	240	1821	30	29	29	30	31	31	30	30	29	30	30	30	254°	180°	216			
1433	275																	218	2	EOT
1434	276																	219	1	BOT
1438	280	1832	30	30	30	30	31	31	31	30	31	30	30	30	256°	180°	220			
1478	320	1843	30	31	31	31	31	29	31	30	29	31	31	30	253°	181°	229			
1518	360	1855	30	30	30	30	31	31	32	30	30	31	30	30	255°	180°	239	219	1	EOT
1519	361																	220	2	BOT

OBSERVER'S LOG

AREA: GULF OF MEXICO
LINE No. 15 RESHOOT DATE: 9 AUG 79
CLIENT: USGS
BASE COURSE: 252°
LOCATION: MAFLA OCS

M/V SEISMIC EXPLORER

REEL No. 220-230

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 (MTR)	REEL No.	TRANS PORT	REMARKS
1558	400	1906	30	30	30	30	31	30	29	30	30	30	31	31	253°	181°	247	220	2	
1598	440	1917	30	30	31	31	31	30	29	31	30	30	30	31	253°	180°	263			
1603	445																	220	2	EOT
1604	446																	221	1	BOT
1638	480	1928	30	30	31	30	31	30	29	30	29	30	30	31	252°	181°	285			
1678	520	1940	30	29	30	30	30	29	31	31	31	31	30	30	254°	181°	315			
1688	530																	221	1	EOT
1689	531																	222	2	BOT
1718	560	1951	30	29	30	29	31	31	31	30	29	30	30	30	254°	181°	345			
1758	600	2002	30	30	31	30	30	27	28	29	29	30	30	30	253°	182°	370			
1761	603																			PE
1773	615																	222	2	EOT
1774	616																	223	1	BOT
1798	640	2014	30	30	31	31	31	28	29	31	30	30	29	30	251°	182°	399			
1838	680	2025	30	30	30	30	30	29	29	30	30	30	30	29	252°	181°	438			
1858	700																	223	1	EOT
1859	701																	224	2	BOT
1878	720	2036	30	30	30	29	30	29	31	31	30	30	30	31	252°	181°	483			
1918	760	2048	30	30	30	30	31	32	32	30	29	31	31	31	249°	182°	536			
1943	785	2056																224	2	EOT
1944	786	2056																225	1	BOT
1958	800	2100	29	30	30	30	31	31	31	30	29	30	30	31	250°	181°	602			
1998	840	2112	30	30	30	30	31	30	30	31	30	30	30	31	247°	183°	695			
2028	870	2120																225	1	EOT
2029	871																	226	2	BOT
2038	880	2122	30	29	29	29	31	31	28	29	30	30	30	31	249°	182°	775			
2078	920	2134	30	30	30	30	31	29	31	31	30	31	31	32	249°	182°	835			
2113	955																	226	2	EOT
2114	956																	227	1	BOT
2118	960	2146	30	30	30	29	30	30	30	29	28	28	31	32	249°	177°	887			
2158	000	2158	30	30	30	29	30	31	31	30	30	30	30	30	251°	180°	951			
2198	040	2210	30	29	30	29	30	29	30	31	30	29	30	30	252°	180°	1023	227	1	EOT
2199	041																	228	2	BOT
2238	080	2222	30	30	30	31	32	31	31	31	31	31	31	32	248°	182°	1109			
2278	120	2233	30	31	32	31	30	31	32	30	31	31	30	31	253°	177°	1160			
2283	125																	228	2	EOT
2284	126																	229	1	BOT
2318	160	2245	30	29	30	29	31	31	32	31	28	28	30	31	255°	178°	1252			
2358	200	2257	30	30	30	29	30	29	29	30	30	31	31	31	254°	179°	1327			
2368	210																	229	1	EOT
2369	211																	230	2	BOT
2398	240	2308	30	30	30	30	30	29	27	29	29	30	30	31	254°	179°	1407			

OBSERVER'S LOG

AREA: GULF OF MEXICO
LINE No. 15 RESHOOT DATE: 9 AUG 79
CLIENT: USGS
BASE COURSE: 252°
LOCATION: MAFLA OCS

M/V SEISMIC EXPLORER

REEL No. 230-235

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 (MTR)	REEL No.	TRANS PORT	REMARKS
2438	280	2320	30	31	31	30	30	29	29	29	29	29	30	29	254°	180°	1504	230	2	
2453	295																	230	2	EOT
2454	296																	231	1	BOT
2478	320	2332	30	30	30	29	30	29	28	29	29	30	31	31	256°	181°	1626			
2518	360	2344	30	30	30	28	30	28	29	31	31	31	30	31	259°	179°	1967			
2538	380																	231	1	EOT
2539	381	2351																232	2	BOT
2558	400	2356	30	30	30	29	30	29	28	29	29	29	30	30	259°	180°	2936			
2558	400	2356	ADDED 3 sec. delay To 'data Line Scan Recorder'																	
2598	440	0008	31	31	31	31	31	31	30	31	30	31	31	32	259°	178°	3260			
2623	465																	232	2	EOT
2624	466																	233	1	BOT
2638	480	0019	30	30	30	30	30	27	31	31	30	30	30	30	256°	179°	3263			
2678	520	0031	30	30	30	30	31	30	31	32	31	31	30	30	259°	174°	3267			
2708	550																	233	1	EOT
2709	551																	234	2	BOT
2718	560	0042	31	31	31	31	32	32	31	31	30	31	30	30	253°	183°	3265			
2758	600	0054	30	30	31	31	32	28	31	31	30	31	31	31	255°	181°	3264			
2793	635																	234	2	EOT
2794	636																	235	1	BOT
2797	639																			PE
2798	640	0105	31	30	30	30	31	30	30	30	30	31	31	31	255°	180°	3264			
2821	663	0112																		Last shot point
	665																			CABLE Noise Two Tape Marks