+. = 6.0

REC = 13.0

LAND SEISMIC RECORDING LOG

CLIENT: USGS
PROSPECT:
AREA: NPRA
LINE NO: 12/81
PARTY NO: 1186
INST. ENG: SWIBLE
DATE: MO 2 DAY 26 YR 81

INSTRUMENT (9-TRACK): [X] 1 SYSTEM [ ] 2 SYSTEMS; [ ] 1-24 & 25-48 [X] 1-48 & 49-96 [ ] ODDS & EVENS; TYPE: [ ] DFS III [ ] DFS IV [X] DFS V [ ] OTHER; [X] 9 TRACK [ ] 21 TRACK; FORMAT: SEG B; [ ] GAPPED [X] UNGAPPED; PACKING DENSITY: (LO) [ ] 356 BPI [ ] 800 BPI (HI) [ ] 712 BPI [X] 1600 BPI

NO. BYTES IN HEADER REC: 220; NO. BYTES IN RECORD ID:; NO. BYTES PER SCAN: 2; RECORD NUMBERS: [X] DEC [ ] OCT; GAIN CONSTANT: 48 db; INPUT IMPEDANCE: 2000 ohms.

CONFIGURATION (MAG TAPE): FIELD TRACE NOS.: 1-48/49-96; DATA CHANNEL NOS.: (ON MAG TAPE)

AUXILIARY DATA: (1) SPS (2) CUT B. (3) CONT (4) (5) (6) (7)
AUXILIARY CHANNEL NOS.: 97 98 99

PARAMETER: RECORD LENGTH: 6 sec.; SAMPLE RATE: [ ] 1 ms. [ ] 4 ms. [X] 3 ms. [ ] ___ ms.; GAIN MODE: [X] FIXED [ ] INITIAL [ ] FINAL [ ] MANUAL [ ] OPERATE; FILTERS: FREQ. 8 LO CUT HZ SLOPE 18; FREQ. 128 HI CUT HZ SLOPE 72; NOTCH FILTER: [X] IN [ ] OUT

DISPLAY: MODE: [X] AGC [ ] FLOAT [ ] DEFLOAT [ ] AMPLIFIER [ ] DIRECT; INITIAL GAIN: 18 db; TRIP SENS: 16 db; POLARITY CONVENTION:; PRESSURE INCREASE ON GEOPHONE: [ ] NEGATIVE [X] POSITIVE; NUMBERS ON MAG TAPE; [X] DOWNBREAK [ ] UPBREAK ON DISPLAY

CFS I: TYPE STACK:; GATE LENGTH:; RECORD REJECTION:; NOISE REDUCTION:; NOISE THRESHOLD:; CORR. SCALING:; R.C.U. NORM/ALT SW.

SOURCE: TYPE: [X] DYNAMITE [ ] VIBROSEIS [ ] OTHER; PATTERN: SINGLE HOLE; NO OF POSITIONS: 1; INLINE SPACING: 440'; LATERAL SPACING:; STAGGER:; LENGTH:; WIDTH:; LATERAL OFFSET:; CHG/HOLE: 50#; HOLE DEPTH: 90'; SWEEP POSITION:; SWEEP START:; SWEEP END:; SWEEP LENGTH:; SWEEP TAPER:; PHASE COMP:

RECEIVER: TYPE: G/S 20D; PATTERN: INLINE; NO. OF ELEMENTS: 30; INLINE SPACING: 6.5'; LATERAL SPACING:; CONNECTION: SERIES/PARALLEL; RESISTANCE: ohms; STAGGER:; LENGTH:; WIDTH:; LATERAL OFFSET:

SPREAD: NO OF GROUPS: 96; GROUP INTERVAL: 110'; SHOTPOINT INTERVAL: 440'; FOLD: 12; DIRECTION OF PROGRESSION: → SE; OFFSET GROUP 1: 5225; OFFSET GROUP 48: 55'; OFFSET GROUP 49: 55'; OFFSET GROUP 48/96: 5225; LEADING GROUP: 96 SE

DIAGRAMS/MISC. INFORMATION:

10,450

NW X —— 5170 —— 48 X-55' SP X-55' 49 X —— 5170 —— 96 X → SE

DAILY TESTS F/N'S 1—9

SHOTPOINT	TR ___ to ___ REEL NO.	REC.	TR ___ to ___ REEL NO.	REC.	SHOT SIZE	DEPTH	NO.	OFFSET	DIR.	CDP SWITCH	SPREAD LINE GROUPS	SET UP	REMARKS: PAPER RECORD FILTERS: 8-90 HZ	CORR. STACK TR 1-48 HT.	REC.	TR 49-96 HT.	REC.
100	87256	11			50	75/90				1	88.1 —— 111.4	106	F/N 10 NOISE TEST				
101		12			50	75/90				5	89.1 —— 112.4						
102		13			50	75/90				9	90.1 —— 113.4						
103		14			50	75/90				13	91.1 —— 114.4						
104		16			50	75/90	110	N		17	92.1 —— 115.4		F/N IS MISFIRE				
105		17			50	75/90				21	93.1 —— 116.4						
106		18			50	75/90				25	94.1 —— 117.4						
107		19			50	75/90				29	95.1 —— 118.4		T41 DEAD				
108		20			50	75/90				33	96.1 —— 119.4						
109		21			50	75/90				37	97.1 —— 120.4						
110		22			50	75/90				41	98.1 —— 121.4		NO SPS				
111		23			50	75/90				45	99.1 —— 122.4						
112		24			50	75/90				49	100.1 —— 123.4						
113		25			50	75/90				5	101.1 —— 124.4	118	NO SPS				
114		26			50	75/90				9	102.1 —— 125.4		NO SPS				
115		27			50	75/90				13	103.1 —— 126.4						
116		28			50	75/90				17	104.1 —— 127.4						
117		29			50	75/90				21	105.1 —— 128.4		NO. SPS				
118		30			50	75/90				25	106.1 —— 129.4						
119		31			50	75/90				29	107.1 —— 130.4		NO SPS				

LAND SEISMIC RECORDING LOG

CLIENT: USGS
PROSPECT:
AREA: NPRA
LINE NO: 12/81
PARTY NO: 1186
INST. ENG: SWIBLE
DATE: MO 2 DAY 26 YR 81

SHOTPOINT	TR. REEL NO.	TR. REC.	TR REEL NO.	TR REC.	SHOT SIZE	SHOT DEPTH	SHOT NO.	SHOT OFFSET	SHOT DIR.	SPREAD CDP SWITCH	SPREAD LINE GROUPS	SPREAD SET UP	REMARKS:	CORR. STACK TR 1-48 HT.	CORR. STACK TR 1-48 REC.	CORR. STACK TR 48-96 HT.	CORR. STACK TR 48-96 REC.
120	872562	32			50	75/90				33	108.1 — 131.4	118	CHANGED SPS GEOPHONE				
121		33			50	75/90				37	109.1 — 132.4						
122		34			50	75/90				41	110.1 — 133.4						
123		35			50	75/90				45	111.1 — 134.4						

LAND SEISMIC RECORDING LOG

CLIENT: USGS
PROSPECT:
AREA: NPRA
LINE NO: 12/81
PARTY NO: 1186
INST. ENG: SWIBLE
DAILY TESTS F/N'S 36-44
DATE: MO 2 DAY 27 YR 81

SHOTPOINT	TR. ___ to ___ REEL NO.	REC.	TR ___ to ___ REEL NO.	REC.	SHOT SIZE	DEPTH	NO.	OFFSET	DIR.	SPREAD CDP SWITCH	LINE GROUPS	SET UP	REMARKS:	CORR. STACK TR 1-48 HT.	REC.	TR 48-96 HT.	REC.
124	872562	47			50	75/90				1	112.1 — 135.4	130	F/N 46 NOISE FILE F/N 45 N/G				
125		48			50	75/90				5	113.1 — 136.4						
126		49			50	75/90				9	114.1 — 137.4						
127		50			50	75/90				13	115.1 — 138.4						
128		51			50	75/90				17	116.1 — 139.4						
129		52			50	75/90				21	117.1 — 140.4						
130		53			50	75/90				25	118.1 — 141.4						
131		55			50	75/90				29	119.1 — 142.4		F/N 54 MISFIRE				
132		56			50	75/90				33	120.1 — 143.4						
133		57			50	75/90				37	121.1 — 144.4						
134		58			50	75/90				41	122.1 — 145.4						
135		59			50	75/90				45	123.1 — 146.4						
136		60			50	75/90				49	124.1 — 147.4						
137		61			50	75/90				5	125.1 — 148.4	142					
138		62			50	75/90				9	126.1 — 149.4						
139		63			50	75/90				13	127.1 — 150.4						
140		64			50	75/90				17	128.1 — 151.4						
141		65			50	75/90				21	129.1 — 152.4						
142		66			50	75/90				25	130.1 — 153.4						
143		67			50	75/90				29	131.1 — 154.4						
144	872562	68			50	75/90				33	132.1 — 155.4						
145	872563	70			50	75/90				37	133.1 — 156.4		F/N 69 TEST FILE NEW TAPE				
146		71			50	75/90				41	134.1 — 157.4		# 90 Dead				
147		72			50	75/90				45	135.1 — 158.4		# 86 DEAD				
148		73			50	75/90				49	136.1 — 159.4						
149		74			50	75/90				5	137.1 — 160.4	154					
150		75			50	75/90				9	138.1 — 161.4						
151		76			50	75/90				13	139.1 — 162.4						
152		77			50	75/90				17	140.1 — 163.4						
153		78			50	75/90				21	141.1 — 164.4						
154		79			50	75/90				25	142.1 — 165.4						
155		80			50	75/90				29	143.1 — 166.4						
156		81			50	75/90				33	144.1 — 167.4						
157		82			50	75/90				37	145.1 — 168.4		T46 DEAD				
158		83			50	75/90				41	146.1 — 169.4						
159		84			50	75/90				45	147.1 — 170.4						

LAND SEISMIC RECORDING LOG

CLIENT: USGS
PROSPECT:
AREA: NPRA
LINE NO: 12
PARTY NO: 1186
INST. ENG: SWIBLE
DATE: MO 2 DAY 27 YR 81

SHOTPOINT	TR. ___ to ___ REEL NO.	REC.	TR ___ to ___ REEL NO.	REC.	SHOT SIZE	DEPTH	NO.	OFFSET	DIR.	SPREAD CDP SWITCH	LINE GROUPS	SET UP	REMARKS:	CORR. STACK TR 1-48 HT.	REC.	TR 48-96 HT.	REC.
160	872563	85			50	75/90				49	148.1 — 171.4	159					
161		86			50	75/90				5	149.1 — 172.4	166					
162		87			50	75/90				9	150.1 — 173.4						
163		88			50	75/90				13	151.1 — 174.4						
164		89			50	75/90				17	152.1 — 175.4						
165		90			50	75/90				21	153.1 — 176.4						
166		91			50	75/90				25	154.1 — 177.4						
167		92			50	75/90				29	155.1 — 178.4						
168		93			50	75/90				33	156.1 — 179.4						
169		94			50	75/90				37	157.1 — 180.4						
170		95			50	75/90				41	158.1 — 181.4						
171		96			50	75/90				45	159.1 — 182.4						
172		97			50	75/90		220	S	49	160.1 — 183.4						
173		98			50	75/90				5	161.1 — 184.4	178					
174		99			50	75/90				9	162.1 — 185.4						
175		100			50	75/90				13	163.1 — 186.4						
176		101			50	75/90				17	164.1 — 187.4						
177		102			50	75/90				21	165.1 — 188.4						
178		103			50	75/90				25	166.1 — 189.4						
179		104			50	75/90				29	167.1 — 190.4						
180		105			50	75/90				33	168.1 — 191.4						
181		106			50	75/90				37	169.1 — 192.4						
182		107			50	75/90				41	170.1 — 193.4						
183		108			50	75/90				45	171.1 — 194.4						
184		109			50	75/90		330	S	49	172.1 — 195.4						
185		110			50	75/90				5	173.1 — 196.4	190					
186		111			50	75/90				9	174.1 — 197.4						
187		112			50	75/90				13	175.1 — 198.4						
188		113			50	75/90				17	176.1 — 199.4						
189		114			50	75/90				21	177.1 — 200.4						
190		115			50	75/90				25	178.1 — 201.4						
191		116			50	75/90				29	179.1 — 202.4						
192		117			50	75/90				33	180.1 — 203.4						
193		118			50	75/90				37	181.1 — 204.4						
194		119			50	75/90				41	182.1 — 205.4						
195		120			50	75/90				45	183.1 — 206.4						

LAND SEISMIC RECORDING LOG

CLIENT: USGS
PROSPECT:
AREA: NPRA
LINE NO: 12
PARTY NO: 1186
INST. ENG: SWIBLE/LUSTER
DAILY TESTS F/N'S 121–130 F/N 128 N/G
DATE: NO 2 DAY 28 YR 81

SHOTPOINT	TR. ___ to ___ REEL NO.	REC.	TR ___ to ___ REEL NO.	REC.	SHOT SIZE	DEPTH	NO.	OFFSET	DIR.	SPREAD CDP SWITCH	LINE GROUPS	SET UP	REMARKS:	CORR. STACK TR 1-48 HT.	REC.	TR 48-96 HT.	REC.
196	87256	132			150	75/90				1	184.1 — 207.4	202	F/N 121 NOISE TEST T84 DEAD				
197		133			150	75/90				5	185.1 — 208.4						
198		134			150	75/90	1195	2004		9	186.1 — 209.4						
199		135			150	75/90				13	187.1 — 210.4						
200		136			150	75/90				17	188.1 — 211.4						
201		137			150	75/90				21	189.1 — 212.4						
202		138			150	75/90				25	190.1 — 213.4						
203		139			150	65/80	250		E	29	191.1 — 214.4						
204		140			150	75/90				33	192.1 — 215.4						
205		141			150	75/90				37	193.1 — 216.4						
206		142			150	75/90				41	194.1 — 217.4						
207		143			150	75/90				45	195.1 — 218.4						
208		144			150	75/90				49	196.1 — 219.4						
209		145			150	75/90				5	197.1 — 220.4	219					
210		146			150	75/90				9	198.1 — 221.4						
211		147			150	75/90				13	199.1 — 222.4						
212		148			150	75/90	400		E	17	200.1 — 223.4						
213		149			150	75/90	300		E	21	201.1 — 224.4						
214		150			150	75/90	300		E	25	202.1 — 225.4						
215		151			150	75/90				29	203.1 — 226.4						
216		152			150	75/90				33	204.1 — 227.4						
217		153			150	75/90				37	205.1 — 228.4						
218		154			150	75/90				41	206.1 — 229.4		T85 DEAD				
219		155			150	75/90				45	207.1 — 230.4						
220		156			150	75/90				49	208.1 — 231.4						
221		157			150	75/90				5	209.1 — 232.4	226					
222		158			150	75/90				9	210.1 — 233.4						
223		159			150	75/90				13	211.1 — 234.4						
224		160			150	75/90				17	212.1 — 235.4						
225		161			150	75/90				21	213.1 — 236.4						
226		162			150	75/90				25	214.1 — 237.4						
227		163			150	75/90				29	215.1 — 238.4						
228		164			150	75/90				33	216.1 — 239.4						
229		165			150	75/90				37	217.1 — 240.4						
230		166			150	75/90				41	218.1 — 241.4						
231		167			150	75/90				45	219.1 — 242.4						

LAND SEISMIC RECORDING LOG

PAGE 2 OF 2

CLIENT: USGS
PROSPECT:
AREA: NPRA
LINE NO: 12
PARTY NO: 1186
INST. ENG: SWIBLE
DATE: MO 2 DAY 28 YR 81

SHOTPOINT	TR. ___ to ___ REEL NO.	REC.	TR ___ to ___ REEL NO.	REC.	SHOT SIZE	DEPTH	NO.	OFFSET	DIR.	SPREAD CDP SWITCH	LINE GROUPS	SET UP	REMARKS:	CORR. STACK TR 1-48 HT.	REC.	TR 48-96 HT.	REC.
232	872568	1168			50	75	90			49	220.1 — 243.4	226					
233		1169			50	75	90			5	221.1 — 244.4	258					
234		1170			50	75	90			9	222.1 — 245.4						
235		1171			50	75	90			13	223.1 — 246.4						
236		1172			50	75	90			17	224.1 — 247.4						
237		1173			50	75	90			21	225.1 — 248.4						
238		1174			50	75	90			25	226.1 — 249.4						
239		1175			50	75	90			29	227.1 — 250.4						
240		1176			50	75	90			33	228.1 — 251.4						
241		1177			50	75	90			37	229.1 — 252.4						
242		1178			50	75	90			41	230.1 — 253.4						
243		1179			50	75	90			45	231.1 — 254.4						
244	872568	1180			50	75	90			49	232.1 — 255.4						
245	872565	1182			50	75	90			5	233.1 — 256.4	250	NEW TAPE F/N 181 TEST FILE				
246		1183			50	75	90			9	234.1 — 257.4						
247		1184			50	75	90			13	235.1 — 258.4						
248		1185			50	75	90			17	236.1 — 259.4						
249		1186			50	75	90			21	237.1 — 260.4						
250		1187			50	75	90			25	238.1 — 261.4						
251		1188			50	75	90			29	239.1 — 262.4						
252		1189			50	75	90			33	240.1 — 263.4						
253		1190			50	75	90			37	241.1 — 264.4						
254		1191			50	75	90			41	242.1 — 265.4						
255		1192			50	75	90			45	243.1 — 266.4						
256		1193			50	75	90			49	244.1 — 267.4						
257		1194			50	75	90			5	245.1 — 268.4	262					
258		1195			50	75	90			9	246.1 — 269.4						
259		1196			50	75	90			13	247.1 — 270.4						
260		1197			50	75	90			17	248.1 — 271.4						
261		1198			50	75	90			21	249.1 — 272.4						
262		1199			50	75	90			25	250.1 — 273.4						
263		1200			50	75	90			29	251.1 — 274.4						
264		1201			50	75	90			33	252.1 — 275.4						
265		1202			50	75	90			37	253.1 — 276.4						
266		1203			50	75	90			41	254.1 — 277.4						
267		1204			50	75	90			45	255.1 — 278.4						

LAND SEISMIC RECORDING LOG

PAGE 1 OF

CLIENT:	PROSPECT:	AREA:	LINE NO:
USGS		NPRA	12/81

PARTY NO:	INST. ENG:		DATE:
1186	HAMMOND / LUSTER	DAILY TESTS F/N'S 205-213	MO 3 DAY 1 YR 81

SHOTPOINT	TR. ___ to ___ REEL NO.	REC.	TR ___ to ___ REEL NO.	REC.	SHOT SIZE	DEPTH	NO.	OFFSET	DIR.	SPREAD CDP SWITCH	LINE GROUPS	SET UP	REMARKS:	CORR. STACK TR 1-48 HT.	REC.	TR 48-96 HT.	REC.
268	872565	215			50	75	90			1	256.1 — 279.4	274					
269		216			50	75	90			5	257.1 — 280.4						
270		217			50	75	90			9	258.1 — 281.4						
271		218			50	75	90			13	259.1 — 282.4						
272		219			50	75	90			17	260.1 — 283.4						
273		220			50	75	90			21	261.1 — 284.4						
274		221			50	75	90			25	262.1 — 285.4						
275		222			50	75	90			29	263.1 — 286.4						
276		223			50	60	75			33	264.1 — 287.4						
													SHUT DOWN FOR HIGH WINDS				

T = 2.0

Rec = 16.0

LAND SEISMIC RECORDING LOG

CLIENT: USGS | PROSPECT: | AREA: NPRA | LINE NO: 12/81

PARTY NO: 1186 | INST. ENG: HAMMOND/LUSTER | DAILY TESTS FN224 - 232 | DATE: MO 3 DAY 3 YR 81

SHOTPOINT	TR. ___ to ___ REEL NO.	REC.	TR. ___ to ___ REEL NO.	REC.	SHOT SIZE	DEPTH	NO.	OFFSET	DIR.	SPREAD CDP SWITCH	LINE GROUPS	SET UP	REMARKS:	CORR. STACK TR 1-48 HT.	REC.	TR 48-96 HT.	REC.
277	872565	234			50	60	75			1	265.1 — 288.4	283	FN233 TEST FILE T6 NOISY				
278		235			50	60	75			5	266.1 — 289.4		T2 NOISY				
279		236			50	60	75	400	N	9	267.1 — 290.4						
280		237			50	60	75	200	N	13	268.1 — 291.4						
281		238			50	60	75			17	269.1 — 292.4		NoSPS				
282		239			50	60	75			21	270.1 — 293.4		NoSPS				
283		240			50	60	75			25	271.1 — 294.4						
284		241			50	60	75			29	272.1 — 295.4						
285		242			50	60	75			33	273.1 — 296.4						
286		243			50	60	75			37	274.1 — 297.4						
287		244			50	60	75			41	275.1 — 298.4						
288		245			50	60	75			45	276.1 — 299.4						
289	872565	246	TAPE		50	60	75			1	277.1 — 300.4	295					
290	872566	248	CHANGE		50	60	75			5	278.1 — 301.4		FN247 TEST FILE				
291		249			50	60	75			9	279.1 — 302.4						
292		250			50	60	75			13	280.1 — 303.4						
293		251			50	60	75			17	281.1 — 304.4						
294		252			50	60	75			21	282.1 — 305.4						
295		253			50	60	75			25	283.1 — 306.4						
296		254			50	60	75			29	284.1 — 307.4						
297		255			50	60	75			33	285.1 — 308.4						
298		256			50	60	75			37	286.1 — 309.4						
299		257			50	60	75			41	287.1 — 310.4						
300		258			50	60	75			45	288.1 — 311.4		T95 DEAD				
301		259			50	60	75			1	289.1 — 312.4	307					
302		260			50	60	75			5	290.1 — 313.4						
303		261			50	60	75			9	291.1 — 314.4						
304		262			50	60	75			13	292.1 — 315.4						
305		263			50	60	75			17	293.1 — 316.4						
306		264			50	60	75			21	294.1 — 317.4						
307		265			50	60	75			25	295.1 — 318.4						
308		266			50	60	75			29	296.1 — 319.4						
309		267			50	60	75			33	297.1 — 320.4						
310		268			50	60	75			37	298.1 — 321.4						
311		269			50	60	75			41	299.1 — 322.4						
312		270			50	60	75			45	300.1 — 323.4						

LAND SEISMIC RECORDING LOG

CLIENT: USGS
PROSPECT:
AREA: NPRA
LINE NO: 12/81
PARTY NO: 1186
INST. ENG: HAMMOND / LASTER
DATE: MO 3 DAY 3 YR 81

SHOTPOINT	TR. ___ to ___ REEL NO.	REC.	TR ___ to ___ REEL NO.	REC.	SHOT SIZE	DEPTH	NO.	OFFSET	DIR.	SPREAD COP SWITCH	LINE GROUPS		REMARKS:	CORR. STACK TR 1-48 HT.	REC.	TR 49-96 HT.	REC.
313	87256	271			50	60	75			49	301.1 — 324.4	307					
314		272			50	60	75			5	302.1 — 325.4	319					
315		273			50	60	75			9	303.1 — 326.4						
316		274			50	60	75			13	304.1 — 327.4						
317		275			50	60	75			17	305.1 — 328.4						
318		276			50	60	75			21	306.1 — 329.4						
319		277			50	60	75			25	307.1 — 330.4						
320		278			50	60	75			29	308.1 — 331.4						
321		279			50	60	75			33	309.1 — 332.4						
322		280			50	60	75			37	310.1 — 333.4						
323		281			50	60	75			41	311.1 — 334.4						
324		282			50	60	75			45	312.1 — 335.4						
325		283			50	60	75			49	313.1 — 336.4						
326		284			50	60	75			5	314.1 — 337.4	331	T69 DEAD				
327		285			50	60	75			9	315.1 — 338.4		T65 "				
328		286			50	60	75			1	316.1 — 339.4	334					
329		287			50	60	75			5	317.1 — 340.4						
330		288			50	60	75			9	318.1 — 341.4						
331		289			50	60	75			13	319.1 — 342.4						
332		290			50	60	75			17	320.1 — 343.4						
333		291			50	60	75			21	321.1 — 344.4						
334		292			50	60	75			25	322.1 — 345.4						
335		293			50	60	75			29	323.1 — 346.4						
336		294			50	60	75			33	324.1 — 347.4						
337		295			50	60	75			37	325.1 — 348.4						
338		296			50	60	75			41	326.1 — 349.4						
339		297			50	60	75			45	327.1 — 350.4						
340		298			50	60	75			49	328.1 — 351.4						
341		299			25	67	75			5	329.1 — 352.4	346	First 25 lb. charge - odd numbers				
342	87256	300	TAPE		50	60	75			9	330.1 — 353.4						
343	87256	302	CHANGE		25	67	75			13	331.1 — 354.4		FN301 TEST FILE				
344		303			50	60	75			17	332.1 — 355.4						
345		304			25	67	75			21	333.1 — 356.4						
346		305			50	60	75			25	334.1 — 357.4						
347		306			25	67	75			29	335.1 — 358.4						
348		307			50	60	75			33	336.1 — 359.4						

LAND SEISMIC RECORDING LOG

CLIENT: USGS
PROSPECT:
AREA: NPRA
LINE NO: 12/81
PARTY NO: 1186
INST. ENG: HAMMOND / LUSTER
DATE: MO 3 DAY 3 YR 81

SHOTPOINT	TR. ___ to ___ REEL NO.	REC.	TR. ___ to ___ REEL NO.	REC.	SHOT SIZE	DEPTH	NO.	OFFSET	DIR.	SPREAD CDP SWITCH	LINE GROUPS	SET UP	REMARKS:	CORR. STACK TR 1-48 HT.	REC.	TR 48-96 HT.	REC.
349	872567	308			25	67	75			37	337.1 — 360.1	346					
350		309			50	60	75			41	338.1 — 361.4						
351		310			25	67	75			45	339.1 — 362.4						
352		311			50	60	75			49	340.1 — 363.4						
353		312			25	67	75			5	341.1 — 364.4	358					
354		313			50	60	75			9	342.1 — 365.4						
355		314			25	67	75			13	343.1 — 366.4						
356		315			50	60	75			17	344.1 — 367.4						
357		316			25	67	75			21	345.1 — 368.4						
358		317			50	60	75			25	346.1 — 369.4						
359		318			25	67	75			29	347.1 — 370.4						
360		319			50	60	75			33	348.1 — 371.4						

LAND SEISMIC RECORDING LOG

CLIENT: USGS | PROSPECT: | AREA: NPRA | LINE NO: 12/81

PARTY NO: 1186 | INST. ENG: HAMMOND | DAILY TESTS FN-320-328 | DATE: MO 3 DAY 4 YR 81

SHOTPOINT	TR. ___ to ___ REEL NO.	REC.	TR ___ to ___ REEL NO.	REC.	SHOT SIZE	DEPTH	NO.	OFFSET	DIR.	SPREAD CDP SWITCH	LINE GROUPS	SET UP	REMARKS: FN 329 TEST FILE	CORR. STACK TR 1-48 HT.	REC.	TR 48-96 HT.	REC.
361	872567	330			25	67	75			1	349.1 — 372.4	367					
362		331			50	60	75			5	350.1 — 373.4						
363		332			25	67	75			9	351.1 — 374.4						
364		333			50	60	75			13	352.1 — 375.4						
365		334			25	67	75			17	353.1 — 376.4						
366		335			50	60	75			21	354.1 — 377.4						
367		336			25	67	75			25	355.1 — 378.4						
368		337			50	60	75			29	356.1 — 379.4						
369		338			25	67	75			33	357.1 — 380.4						
370		339			50	60	75			37	358.1 — 381.4						
371		340			25	67	75			41	359.1 — 382.4						
372		341			50	60	75			45	360.1 — 383.4						
373		342			25	67	75			49	361.1 — 384.4						
374		343			50	60	75			5	362.1 — 385.4	379					
375		344			25	67	75			9	363.1 — 386.4						
376		345			50	60	75			13	364.1 — 387.4						
377		346			25	67	75			17	365.1 — 388.4						
378		347			50	60	75			21	366.1 — 389.4						
379		348			25	67	75			25	367.1 — 390.4						
380		349			50	60	75			29	368.1 — 391.4						
381		350			25	67	75			33	369.1 — 392.4						
382		351			50	60	75			37	370.1 — 393.4						
383		352			25	67	75			41	371.1 — 394.4						
384		353			50	60	75			45	372.1 — 395.4						
385		354			25	67	75			49	373.1 — 396.4						
386		355			50	60	75			5	374.1 — 397.4	391					
387	872567	357	TAPE		25	67	75			9	375.1 — 398.4		FN 356 MISFIRE T65 DEAD				
388	872568	359	CHANGE		50	60	75			13	376.1 — 399.4		FN 358 TEST FILE				
389		360			25	67	75			17	377.1 — 400.4						
390		361			50	60	75			21	378.1 — 401.4						
391		362			25	67	75			25	379.1 — 402.4						
392		363			50	60	75			29	380.1 — 403.4						
393		364			25	67	75			33	381.1 — 404.4						
394		365			50	60	75			37	382.1 — 405.4						
395		366			25	67	75			41	383.1 — 406.4						
396		367			50	60	75			45	384.1 — 407.4						

LAND SEISMIC RECORDING LOG

CLIENT: USGS
PROSPECT:
AREA: NPRA
LINE NO: 12/81
PARTY NO: 1186
INST. ENG: HAMMOND
DATE: MO 3 DAY 4 YR 81

SHOTPOINT	TR. to REEL NO.	REC.	TR to REEL NO.	REC.	SHOT SIZE	DEPTH	NO.	OFFSET	DIR.	SPREAD CDP SWITCH	LINE GROUPS		REMARKS:	CORR. STACK TR 1-48 HT.	REC.	TR 49-96 HT.	REC.
397	8725	368			25	67	75			99	385.1 — 408.4	391					
398		369			50	60	75			5	386.1 — 409.4	403					
399		370			25	67	75			9	387.1 — 410.4		T49 DEAD				
400		371			50	60	75			13	388.1 — 411.4						
401		372			25	67	75			17	389.1 — 412.4		FN372 TEST FILE				
402		374			50	60	75			21	390.1 — 413.4						
403		375			25	67	75			25	391.1 — 414.4						
404		376			50	60	75			29	392.1 — 415.4						
405		377			25	67	75	110	E	33	393.1 — 416.4						
406		378			50	60	75			37	394.1 — 417.4						
407		379			25	67	75			41	395.1 — 418.4						
408		380			50	60	75			45	396.1 — 419.4		T96 DEAD				
409		381			25	67	75			1	397.1 — 420.4	415	T9 DEAD				
410		382			50	60	75			5	398.1 — 421.4						
411		383			25	67	75			9	399.1 — 422.4						
412		384			25	67	75			13	400.1 — 423.4						
413		385			25	67	75			17	401.1 — 424.4						
414		386			25	67	75			21	402.1 — 425.4						
415		387			25	67	96			25	403.1 — 426.4						
416		388			25	67	75			29	404.1 — 427.4						
417		389			25	67	75			33	405.1 — 428.4						
418		390			25	67	75			37	406.1 — 429.4						
419		391			25	67	75	400	S	41	407.1 — 430.4						
420		392			25	67	78	400	S	45	408.1 — 431.4						
421		393			25	67	75			49	409.1 — 432.4						
422		394			25	67	75			5	410.1 — 433.4	427					
423		395			25	67	75			9	411.1 — 434.4						
424		396			25	67	75			13	412.1 — 435.4						
425		397			25	67	75			17	413.1 — 436.4		T45 DEAD T90, T91, T92 DEAD				
426		398			25	67	75			17	413.1 — 436.4		CDP ERROR				
427		399			25	67	75			25	415.1 — 438.4		T 80 NG				
428		400			25	67	75			29	416.1 — 439.4						
429		401			25	67	75			33	417.1 — 440.4						
430		402			25	67	75			37	418.1 — 441.4						
431		403			25	67	75			41	419.1 — 442.4						
432		404			25	67	75			45	420.1 — 443.4						

LAND SEISMIC RECORDING LOG

CLIENT: USGS | PROSPECT: | AREA: NPRA | LINE NO: 12/81

PARTY NO: 1186 | INST. ENG: HAMMOND | DATE: MO 3 DAY 4 YR 81

SHOTPOINT	TR. ___ to ___ REEL NO.	REC.	TR. ___ to ___ REEL NO.	REC.	SHOT SIZE	DEPTH	NO.	OFFSET	DIR.	SPREAD CDP SWITCH	LINE GROUPS	SET UP	REMARKS:	CORR. STACK TR 1-48 HT.	REC.	TR 48-96 HT.	REC.
433	872568	405			25	67	75			49	421.1 — 444.4	327	tape ~~change~~ finished.				

LAND SEISMIC RECORDING LOG

CLIENT: USGS | PROSPECT: | AREA: NPRA | LINE NO: 12/81

PARTY NO: 1186 | INST. ENG: HAMMOND / CUSTER | DAILY TESTS FN407 — 417 FN411 N/G | DATE: MO 3 DAY 5 YR 81

SHOTPOINT	TR. REEL NO.	REC.	SHOT SIZE	DEPTH	NO.	OFFSET	DIR.	CDP SWITCH	SPREAD LINE GROUPS		REMARKS: FN 406 TEST FILE FN410 N/G	CORR. STACK TR 1-48 HT.	REC.	TR 48-96 HT.	REC.
434	872569	419	25	67	75			5	422.1 — 445.4	439	FN418 Noise File				
435		420	25	67	75			9	423.1 — 446.4						
436		421	25	67	75	1110	E	13	424.1 — 447.4						
437		422	25	67	75			17	425.1 — 448.4						
438		423	25	67	75			21	426.1 — 449.4						
439		424	25	67	75			25	427.1 — 450.4						
440		425	25	67	75			29	428.1 — 451.4						
441		426	25	67	75			33	429.1 — 452.4		GAS WELL AT STATION 439.3 ± .4				
442		427	25	67	75			37	430.1 — 453.4						
443		428	25	67	75			41	431.1 — 454.4						
444		429	25	67	75			45	432.1 — 455.4						
445		430	25	67	75			49	433.1 — 456.4						
446		431	25	67	75			5	434.1 — 457.4	451					
447		432	25	67	75			9	435.1 — 458.4						
448		433	25	67	75			13	436.1 — 459.4						
449		434	25	67	75			17	437.1 — 460.4						
450		435	25	67	75			21	438.1 — 461.4						
451		436	25	67	75			25	439.1 — 462.4						
452		437	25	67	75			29	440.1 — 463.4						
453		438	25	67	75			33	441.1 — 464.4						
454		439	25	67	75			37	442.1 — 465.4						
455		440	25	67	75			41	443.1 — 466.4						
456		441	25	67	75			45	444.1 — 467.4						
457		442	25	67	75			49	445.1 — 468.4						
458		443	25	67	75			5	446.1 — 469.4	463					
459		444	25	67	75			9	447.1 — 470.4						
460		445	25	67	75			13	448.1 — 471.4						
461		446	25	67	75			17	449.1 — 472.4						
462		447	25	67	75			21	450.1 — 473.4						
463		448	25	67	75			25	451.1 — 474.4						
464		449	25	67	75			29	452.1 — 475.4						
465		450	25	67	75			33	453.1 — 476.4						
466		451	25	67	75			37	454.1 — 477.4						
467		452	25	67	75			41	455.1 — 478.4						
468		453	25	67	75			45	456.1 — 479.4						
469		454	25	67	75			49	457.1 — 480.4						

LAND SEISMIC RECORDING LOG

CLIENT: USGS | PROSPECT: | AREA: NPRA | LINE NO: 12/81

PARTY NO: 1186 | INST. ENG: Ammond / Luster | DATE: MO 3 DAY 5 YR 81

SHOTPOINT	TR. ___ to ___ REEL NO.	REC.	TR ___ to ___ REEL NO.	REC.	SHOT SIZE	DEPTH	NO.	OFFSET	DIR.	SPREAD COP SWITCH	LINE GROUPS	SET UP	REMARKS:	CORR. STACK TR 1-48 HT.	REC.	TR 48-96 HT.	REC.
470	8725568	455			25	67	75			5	458.1 — 481.4	475					
471		456			25	67	75			9	459.1 — 482.4						
472		457			25	67	75			13	460.1 — 483.4						
473		458			25	67	75			17	461.1 — 484.4						
474		459			25	67	75			21	462.1 — 485.4						
475		460			25	67	75			25	463.1 — 486.4						
476		461			25	67	75			29	464.1 — 487.4						
477		462			25	67	75			33	465.1 — 488.4						
478		463			25	67	75			37	466.1 — 489.4						
479		464			25	67	75			41	467.1 — 490.4						
480		465			25	67	75			45	468.1 — 491.4						
481	8725569	466	TAPE		25	67	75			49	469.1 — 492.4						
482	8725570	468	CHANGE		25	67	75			5	470.1 — 493.4	497	FN467 TEST FILE				
483		469			25	67	75			9	471.1 — 494.4						
484		470			25	67	75			13	472.1 — 495.4						
485		471			25	67	75			17	473.1 — 496.4						
486		473			25	67	75			21	474.1 — 497.4		FN472 MISFIRE				
487		474			25	67	75			25	475.1 — 498.4						
488		475			25	67	75			29	476.1 — 499.4						
489		476			25	67	75			33	477.1 — 500.4						
490		478			25	67	75			37	478.1 — 501.4		FN477 MISFIRE				
491		479			25	67	75			41	479.1 — 502.4						
492		480			25	67	75			45	480.1 — 503.4						
493		481			25	67	75			49	481.1 — 504.4						
494		482			25	67	75			5	482.1 — 505.4	499					
495		483			25	67	75	40N	S	9	483.1 — 506.4						
496		484			25	67	75			13	484.1 — 507.4						
497		485			25	67	75			17	485.1 — 508.4						
498		486			25	67	75			21	486.1 — 509.4						
499		487			25	67	75			25	487.1 — 510.4						
500		488			25	67	75			29	488.1 — 511.4		T93 DEAD				
501		489			25	67	75			33	489.1 — 512.4		T89 "				
502		490			25	67	75			37	490.1 — 513.4						
503		491			25	67	75			41	491.1 — 514.4						
504		492			25	67	75			45	492.1 — 515.4						
505		493			25	67	75	280	N	49	493.1 — 516.4						

LAND SEISMIC RECORDING LOG

CLIENT: USGS | PROSPECT: | AREA: NPRA | LINE NO: 12/81

PARTY NO: 1186 | INST. ENG: HAMMOND/LUSTER | DATE: MO 3 DAY 5 YR 81

SHOTPOINT	TR. ___ to ___ REEL NO.	REC.	TR. ___ to ___ REEL NO.	REC.	SHOT SIZE	DEPTH	NO.	OFFSET	DIR.	SPREAD CDP SWITCH	LINE GROUPS	SET UP	REMARKS:	CORR. STACK TR 1-48 HT.	REC.	TR 48-96 HT.	REC.
506	87257.9	494			25	67	75	220	E	5	494.1 — 517.4	511					
507		495			25	67	75	110	E	9	495.1 — 518.4						
508		496			25	67	75			13	496.1 — 519.4						
509		497			25	67	75			17	497.1 — 520.4						
510		498			25	67	75			21	498.1 — 521.4						
511		499			25	67	75			25	499.1 — 522.4						
512		500			25	67	75			29	500.1 — 523.4						
513		501			25	67	75			33	501.1 — 524.4						
514		502			25	67	75			37	502.1 — 525.4						
515		503			25	67	75			41	503.1 — 526.4						
516		504			25	67	75			45	504.1 — 527.4						
517		505			25	67	75			49	505.1 — 528.4						
518		506			25	67	75			5	506.1 — 529.4						
519		508			25	67	75			9	507.1 — 530.4		FN 507 MISFIRE				
520		509			25	67	75			13	508.1 — 531.4		T50 DEAD				
521		510			25	67	75			17	509.1 — 532.4		T46 "				
522		511			25	67	75			21	510.1 — 533.4						
523		512			25	67	75			25	511.1 — 534.4						
524		513			25	67	75			29	512.1 — 535.4						
525		514			25	67	75	350	S	33	513.1 — 536.4						
526		515			25	67	75	330	E	37	514.1 — 537.4						
527		516			25	67	75			41	515.1 — 538.4						
528		517			25	67	75			45	516.1 — 539.4						
529		518			25	67	75	50	S	49	517.1 — 540.4						

LAND SEISMIC RECORDING LOG

CLIENT: USGS | PROSPECT: | AREA: NPRA | LINE NO: 12/81

PARTY NO: 1186 | INST. ENG: HAMMOND / LUSTER | DAILY TESTS FN 517 - 528 | DATE: MO 3 DAY 6 YR 81

SHOTPOINT	TR. REEL NO.	TR. REC.	TR REEL NO.	TR REC.	SHOT SIZE	SHOT DEPTH	SHOT NO.	SHOT OFFSET	SHOT DIR.	SPREAD COP SWITCH	SPREAD LINE GROUPS	SPREAD SET UP	REMARKS: FN523 N/G	CORR. STACK TR 1-48 HT.	CORR. STACK TR 1-48 REC.	CORR. STACK TR 48-96 HT.	CORR. STACK TR 48-96 REC.
5309	8/12/25/7/11	5310			125	167/75				5	518.1 — 541.4	535	FN529 TEST FILE				
5311		5312			125	167/75				9	519.1 — 542.4		FN531 MISFIRE				
5312		5313			125	167/75				13	520.1 — 543.4						
5313		5314			125	167/75				17	521.1 — 544.4		T 39 - NOISY				
5314		5315			125	167/75				21	522.1 — 545.4						
5315		5316			125	167/75				25	523.1 — 546.4						
5316		5317			125	167/75				29	524.1 — 547.4						
5317		5318			125	167/75				33	525.1 — 548.4						
5318		5319			125	167/75				37	526.1 — 549.4						
5319		5320			125	167/75				41	527.1 — 550.4						
5320		5321			125	167/75				45	528.1 — 551.4						
5321		5322			125	167/75				49	529.1 — 552.4		T-1 DEAD T 49 DEAD				
5322		5323			125	167/75				5	530.1 — 553.4	547					
5323		5324			125	167/75				9	531.1 — 554.4		T 95 NOISY				
5324		5325			125	167/75				13	532.1 — 555.4		T 91 NOISY				
5325		5326			150	175/90				17	533.1 — 556.4						
5326		5328			150	176/90	220	W		21	534.1 — 557.4		FN547 MISFIRE				
5327		5329			150	175/90				25	535.1 — 558.4		GLD# 558.1 ON ICE FISH CREEK				
5328		5330			150	175/90				29	536.1 — 559.4						
5329		5331			150	175/90				33	537.1 — 560.4						
5330		5332			150	175/90				37	538.1 — 561.4						
5331		5333			150	176/90				41	539.1 — 562.4						
5332		5334			150	176/90				45	540.1 — 563.4						
5333		5335			150	176/90				49	541.1 — 564.4						
5334		5336			150	175/90				5	542.1 — 565.4	559					
5335		5337			150	175/90				9	543.1 — 566.4						
5336		5338			150	176/90				13	544.1 — 567.4						
5337		5339			150	176/90				17	545.1 — 568.4						
5338		5340			150	175/90				21	546.1 — 569.4						
5339		5341			150	175/90				25	547.1 — 570.4						
5340		5342			150	175/90				29	548.1 — 571.4						
5341		5343			150	176/90				33	549.1 — 572.4						
5342		5344			150	176/90	160	S		37	550.1 — 573.4						
5343		5345			150	176/90				41	551.1 — 574.4						
5344		5346			150	160/75	320	W		45	552.1 — 575.4						
5345		5347			150	160/75	150	N		1	553.1 — 576.4	571					

LAND SEISMIC RECORDING LOG

CLIENT: USGS | PROSPECT: | AREA: NPRA | LINE NO: 12/81

PARTY NO: 1186 | INST. ENG: Hammond/Luster | DATE: MO 3 DAY 6 YR 81

SHOTPOINT	TR. ___ to ___ REEL NO.	REC.	TR ___ to ___ REEL NO.	REC.	SHOT SIZE	DEPTH	NO.	OFFSET	DIR.	SPREAD CDP SWITCH	LINE GROUPS	SET UP	REMARKS:	CORR. STACK TR 1-48 HT.	REC.	TR 48-96 HT.	REC.
566	872571	568			50	60	75	100	N	5	554.1 — 577.4	571					
567		569			50	60	75			9	555.1 — 578.4						
568		570			50	60	75			13	556.1 — 579.4		T96 Noisy				
569		571			50	60	75			17	557.1 — 580.4						
570		572			50	60	75			21	558.1 — 581.4						
571		573			50	60	75			25	559.1 — 582.4		T84 Dead				
572		574			50	60	75			29	560.1 — 583.4						
573		575			50	60	75			33	561.1 — 584.4						
574		576			50	60	75			37	562.1 — 585.4						
575		577			50	60	75			41	563.1 — 586.4						
576		578			50	60	75			45	564.1 — 587.4						
577		579			50	60	75			49	565.1 — 588.4						
578	872571	580	TAPE		50	60	75			5	566.1 — 589.4	573					
579	872572	582	CHANGE		50	60	75			9	567.1 — 590.4		FN581 Test File				
580		583			50	60	75			13	568.1 — 591.4						
581		584			50	60	75			17	569.1 — 592.4						
582		585			50	60	75			21	570.1 — 593.4						
583		586			50	60	75	60	S	25	571.1 — 594.4						
584		587			50	60	75			29	572.1 — 595.4						
585		588			50	60	75			33	573.1 — 596.4						
586		589			50	60	75			37	574.1 — 597.4						
587		590			50	60	75			41	575.1 — 598.4						
588		591			50	60	75			45	576.1 — 599.4						
589		592			50	60	75	50		49	577.1 — 600.4						
590		593			50	60	75			5	578.1 — 601.4	595					
591		594			50	60	75			9	579.1 — 602.4						
592		595			50	60	75			13	580.1 — 603.4						
593		596			50	60	75			17	581.1 — 604.4						
594		597			50	60	75			21	582.1 — 605.4						
595		598			50	60	75			25	583.1 — 606.4						
596		599			50	60	75			29	584.1 — 607.4						
597		600			50	60	75			33	585.1 — 608.4						
598		601			50	60	75			37	586.1 — 609.4						
599		602			50	60	75			41	587.1 — 610.4						
600		603			50	60	75			45	588.1 — 611.4						
601		604			50	60	75			49	589.1 — 612.4						

LAND SEISMIC RECORDING LOG

CLIENT: USGS
PROSPECT:
AREA: NPRA
LINE NO: 12/81
PARTY NO: 1186
INST. ENG: Hammond
DATE: MO 3 DAY 6 YR 81

SHOTPOINT	TR. ___ to ___ REEL NO.	REC.	TR ___ to ___ REEL NO.	REC.	SHOT SIZE	DEPTH	NO.	OFFSET	DIR.	SPREAD CDP SWITCH	LINE GROUPS	SET UP	REMARKS:	CORR. STACK TR 1-48 HT.	REC.	TR 48-96 HT.	REC.
602	872572	605			50	60	75			5	590.1 — 613.4	607					
603		606			50	60	75			9	591.1 — 614.4						
604		607			50	60	75			13	592.1 — 615.4						
605		608			50	60	75			17	593.1 — 616.4						
606		609			50	60	75			21	594.1 — 617.4						
607		610			50	60	75			25	595.1 — 618.4						
608		611			50	60	75			29	596.1 — 619.4						
609		612			50	60	75			33	597.1 — 620.4						
610		613			50	60	75			37	598.1 — 621.4						
611		614			50	60	75			41	599.1 — 621.4						
612		615			50	60	75			45	600.1 — 622.4		Hole Blow				
613		616			50	60	75			49	601.1 — 623.4						

LAND SEISMIC RECORDING LOG

PAGE 1 of 2

CLIENT: USGS | PROSPECT: | AREA: NPRA | LINE NO: 12/81

PARTY NO: 1186 | INST. ENG: HAMMOND/LUSTER | Montly Inst. tests - tape #872573 | DATE: MO 3 DAY 7 YR 81

SHOTPOINT	TR. ___ to ___ REEL NO.	REC.	TR. ___ to ___ REEL NO.	REC.	SHOT SIZE	DEPTH	NO.	OFFSET	DIR.	SPREAD CDP SWITCH	LINE GROUPS	SET UP	REMARKS: Daily tests RN #627-635 FN638/NG	CORR. STACK TR 1-48 HT.	REC.	TR 48-96 HT.	REC.
614	872574	637			50	60	75			5	602.1 — 625.4	619	TEST FILE FN 636				
615		639			50	60	75			9	603.1 — 626.4		T84 DEAD				
616		640			50	60	75	50	W	13	604.1 — 627.4						
617		641			50	60	75			17	605.1 — 628.4						
618		642			50	60	75			21	606.1 — 629.4		T72 DEAD				
619		643			50	60	75			25	607.1 — 630.4						
620		644			50	60	75			29	608.1 — 631.4						
621		645			50	60	75			33	609.1 — 632.4						
622		646			50	60	75			37	610.1 — 633.4						
623		647			50	60	75			41	611.1 — 634.4		HOLE BLOW				
624		648			50	60	75			45	612.1 — 635.4						
625		649			50	60	75			49	613.1 — 636.4						
626		650			50	60	75			5	614.1 — 637.4	631					
627		651			50	60	75			9	615.1 — 638.4						
628		652			50	60	75			13	616.1 — 639.4						
629		653			50	60	75			17	617.1 — 640.4						
630		654			50	60	75			21	618.1 — 641.4						
631		655			50	60	75			25	619.1 — 642.4						
632		656			50	60	75			29	620.1 — 643.4						
633		657			50	60	75			33	621.1 — 644.4						
634		658			50	60	75			37	622.1 — 645.4						
635		659			50	60	75			41	623.1 — 646.4						
636		660			50	60	75			45	624.1 — 647.4						
637		661			50	60	75			49	625.1 — 648.4		HOLE BLOW				
638		662			50	60	75			5	626.1 — 649.4	643					
639		663			50	60	75			9	627.1 — 650.4		HOLE BLOW				
640		664			50	60	75			13	628.1 — 651.4						
641		665			50	60	75	80	N	17	629.1 — 652.4						
642		666			50	60	75			21	630.1 — 653.4						
643		667			50	60	75			25	631.1 — 654.4						
644		668			50	60	75			29	632.1 — 655.4						
645		669			50	60	75			33	633.1 — 656.4						
646		670			50	60	75			37	634.1 — 657.4						
647		671			50	60	75			41	635.1 — 658.4						
648		672			50	60	75			45	636.1 — 659.4						
649		673			50	60	75			49	637.1 — 660.4						

LAND SEISMIC RECORDING LOG

CLIENT: USGS | PROSPECT: | AREA: NPRA | LINE NO: 12/81

PARTY NO: 1186 | INST. ENG: HAMMOND / LUSTER | DATE: MO 3 DAY 7 YR 81

SHOTPOINT	TR. ___ to ___ REEL NO.	REC.	TR ___ to ___ REEL NO.	REC.	SHOT SIZE	DEPTH	NO.	OFFSET	DIR.	SPREAD CDP SWITCH	LINE GROUPS	SET UP	REMARKS:	CORR. STACK TR 1-48 HT.	REC.	TR 48-96 HT.	REC.
650	872574	674			50	60	75			5	638.1 — 661.4	655					
651		675			50	60	75			9	639.1 — 662.4						
652		676			50	60	75			13	640.1 — 663.4						
653		677			50	60	75			17	641.1 — 664.4						
654		678			50	60	75			21	642.1 — 665.4						
655		679			50	60	75			25	643.1 — 666.4						
656		680			50	60	75			29	644.1 — 667.4						
657		681			50	60	75			33	645.1 — 668.4						
658		682			50	60	75			37	646.1 — 669.4						
659		683			50	60	75			41	647.1 — 670.4						
660		684			50	60	75			45	648.1 — 671.4						
661		685			50	60	75			49	649.1 — 672.4						
662	872574	686			50	60	75			5	650.1 — 673.4	667					
663	872575	688			50	60	75			9	651.1 — 674.4		tape Change - test Rec #687				
664		689			50	60	75			13	652.1 — 675.4						
665		691			50	60	75			17	653.1 — 676.4		#690 N/G				
666		692			50	60	75			21	654.1 — 677.4						
667		693			50	60	75			25	655.1 — 678.4						
668		694			50	60	75			29	656.1 — 679.4						
669		695			50	60	75			33	657.1 — 680.4						
670		696			50	60	75			37	658.1 — 681.4						
671		697			50	60	75			41	659.1 — 682.4						
672		698			50	60	75	140 W		45	660.1 — 683.4						
673		699			50	60	75	60 W		49	661.1 — 684.4		t-95 dead		8:45		

LAND SEISMIC RECORDING LOG

CLIENT: USGS | PROSPECT: | AREA: NPRA | LINE NO: 12/81

PARTY NO: 1186 | INST. ENG: HAMMOND | DAILY TESTS FN 700 - 708 | DATE: MO 3 DAY 8 YR 81

SHOTPOINT	TR. ___ to ___ REEL NO.	REC.	TR. ___ to ___ REEL NO.	REC.	SHOT SIZE	DEPTH	NO.	OFFSET	DIR.	SPREAD CDP SWITCH	LINE GROUPS	SET UP	REMARKS:	CORR. STACK TR 1-48 HT.	REC.	TR 48-96 HT.	REC.
674	872575	710			50	60	75			5	662.1 — 685.4	679	FN 709 TEST FILE				
675		711			50	60	75			9	663.1 — 686.4						
676		712			50	60	75			13	664.1 — 687.4						
677		713			50	60	75			17	665.1 — 688.4						
678		714			50	60	75			21	666.1 — 689.4						
679		715			50	60	75			25	667.1 — 690.4						
680		716			50	60	75			29	668.1 — 691.4						
681		717			50	60	75			33	669.1 — 692.4						
682		718			50	60	75			37	670.1 — 693.4						
683		719			50	60	75			41	671.1 — 694.4						
684		720			50	60	75			45	672.1 — 695.4						
685		721			50	60	75			49	673.1 — 696.4						
686		722			50	60	75			5	674.1 — 697.4	691					
687		723			50	60	75			9	675.1 — 698.4						
688		724			50	75	90			13	676.1 — 699.4						
689		725			50	75	90			17	677.1 — 700.4						
690		726			50	75	90			21	678.1 — 701.4						
691		727			50	75	90			25	679.1 — 702.4						
692		728			50	75	90			29	680.1 — 703.4		T49 DEAD				
693		729			50	75	90			33	681.1 — 704.4		T50 DEAD				
694		730			50	75	90			1	682.1 — 705.4	700	T60 DEAD				
695		731			50	75	90			5	683.1 — 706.4						
696		732			50	75	90			9	684.1 — 707.4						
697		733			50	75	90			13	685.1 — 708.4						
698		734			50	75	90			17	686.1 — 709.4		T47 & T48 DEAD				
699		735			50	75	90			21	687.1 — 710.4						
700		736			50	75	90			25	688.1 — 711.4						
701		737			50	75	90			29	689.1 — 712.4						
702		738			50	75	90			33	690.1 — 713.4						
703		739			50	75	90			37	691.1 — 714.4						
704		740			50	75	90			41	692.1 — 715.4						
705		741			50	75	90			45	693.1 — 716.4						
706		742			50	75	90			49	694.1 — 717.4						
707		744			50	75	90			5	695.1 — 718.4	712	FN743 N/G				
708		745			50	75	90			9	696.1 — 719.4						
709		746			50	75	90			13	697.1 — 720.4						

LAND SEISMIC RECORDING LOG

CLIENT: USGS | PROSPECT: | AREA: NPRA | LINE NO: 12/81

PARTY NO: 1186 | INST. ENG: HAMMOND | DATE: MO 3 DAY 8 YR 81

SHOTPOINT	TR. ___ to ___ REEL NO.	REC.	TR. ___ to ___ REEL NO.	REC.	SHOT SIZE	DEPTH	NO.	OFFSET	DIR.	SPREAD CDP SWITCH	LINE GROUPS	SET UP	REMARKS:	CORR. STACK TR 1-48 HT.	REC.	TR 48-96 HT.	REC.
710	872575	747			50	75	90			17	698.1 — 721.4	712					
711	872575	748	TAPE		50	75	90			21	699.1 — 722.4						
712	872576	750	CHANGE		50	75	90			25	700.1 — 723.4		FN749 TEST FILE				
713		751			50	75	90			29	701.1 — 724.4						
714		752			50	75	90			33	702.1 — 725.4						
715		753			50	75	90			37	703.1 — 726.4						
716		754			50	75	90			41	704.1 — 727.4						
717		755			50	75	90			45	705.1 — 728.4						
718		756			50	75	90			49	706.1 — 729.4						
719		757			50	75	90			5	707.1 — 730.4	724					
720		758			50	75	90			9	708.1 — 731.4						
721		759			50	75	90			13	709.1 — 732.4						
722		760			50	75	90			17	710.1 — 733.4						
723		761			50	75	90			21	711.1 — 734.4						
724		762			50	75	90			25	712.1 — 735.4						
725		763			50	75	90			29	713.1 — 736.4						
726		764			50	75	90			33	714.1 — 737.4						
727		765			50	75	90			37	715.1 — 738.4			54			

LAND SEISMIC RECORDING LOG

PAGE 1 OF ___

CLIENT: USGS | PROSPECT: | AREA: NPRA | LINE NO: 12/81

PARTY NO: 1186 | INST. ENG: HAMMOND/CUSTER | DAILY TESTS FN766-774 | DATE: MO 3 DAY 9 YR 81

	SHOTPOINT	TR ___ to ___ REEL NO	REC.	TR ___ to ___ REEL NO.	REC.	SHOT SIZE	DEPTH	NO.	OFFSET	DIR.	SPREAD CDP SWITCH	LINE GROUPS	SET UP	REMARKS	CORR. STACK TR 1-48 HT.	REC.	TR 48-96 HT.	REC.
D	728	8172576	716			50	75/90				5	716.1 — 739.4	733	FN775 TEST FILE				
	729		717			50	75/90				9	717.1 — 740.4						
	730		718			50	75/90				13	718.1 — 741.4						
	731		719			50	75/90	250	S		17	719.1 — 742.4						
	732		780			50	75/90	400	S		21	720.1 — 743.4						
	733		781			50	75/90	1110	E		25	721.1 — 744.4						
	734		782			50	75/90				29	722.1 — 745.4						
	735		783			50	75/90				33	723.1 — 746.4						
	736		784			50	75/90				37	724.1 — 747.4		HOLE BLOW				
	737		785			50	75/90				41	725.1 — 748.4						
	738		786			50	75/90				45	726.1 — 749.4						
	739		787			50	75/90				49	727.1 — 750.4						
	740		788			50	75/90				5	728.1 — 751.4	745					
	741		789			50	75/90				9	729.1 — 752.4						
	742		790			50	75/90				13	730.1 — 753.4						
	743		791			50	75/90				17	731.1 — 754.4						
	744		792			50	75/90				21	732.1 — 755.4						
	745		793			50	75/90				25	733.1 — 756.4						
	746		794			50	75/90	110	E		29	734.1 — 757.4						
	747		795			50	75/90	60	W		33	735.1 — 758.4						
	748		796			50	75/90				37	736.1 — 759.4						
	749		797			50	75/90				41	737.1 — 760.4						
	750		798			50	75/90				45	738.1 — 761.4						
	751		799			50	75/90				49	739.1 — 762.4						
	752		800			50	75/90				5	740.1 — 763.4	757					
	753		801			50	75/90				9	741.1 — 764.4						
	754		802			50	75/90				13	742.1 — 765.4						
	755		803			50	75/90				17	743.1 — 766.4						
	756		804			50	75/90				21	744.1 — 767.4						
	757		805			50	75/90				25	745.1 — 768.4						
	758		806			50	75/90				29	746.1 — 769.4						
	759		807			50	75/90				33	747.1 — 770.4						
	760	8172576	808	TAPE		50	75/90				37	748.1 — 771.4						
	761	8172577	809	CHANGE		50	75/90				41	749.1 — 772.4		FN809 TEST FILE				
	762		810			50	75/90				45	750.1 — 773.4		HOLE BLOW				
	763		811			50	75/90				49	751.1 — 774.4						

LAND SEISMIC RECORDING LOG

CLIENT: USGS
PROSPECT:
AREA: NPRA
LINE NO: 12/81
PARTY NO: 1186
INST. ENG: HAMMOND/LUSTER
DATE: MO 3 DAY 9 YR 81

SHOTPOINT	TR. ___ to ___ REEL NO.	REC.	TR ___ to ___ REEL NO.	REC.	SHOT SIZE	DEPTH	NO.	OFFSET	DIR.	SPREAD COP SWITCH	LINE GROUPS	SET UP	REMARKS:	CORR. STACK TR 1-48 HT.	REC.	TR 48-96 HT.	REC.
764	8726	8113			50	75	90			5	752.1 — 775.4	769					
765		8114			50	75	90			9	753.1 — 776.4						
766		8115			50	75	90			13	754.1 — 777.4						
767		8116			50	75	90			17	755.1 — 778.4						
768		8117			50	75	90			21	756.1 — 779.4						
769		8118			50	60	75			25	757.1 — 780.4						
770		8119			50	75	90			29	758.1 — 781.4						
771		8120			50	60	75			33	759.1 — 782.4						
772		8121			50	75	90			37	760.1 — 783.4						
773		8122			50	60	75			41	761.1 — 784.4						
774		8123			50	75	90			45	762.1 — 785.4						
775		8124			50	60	75	11.0	W	49	763.1 — 786.4						
776		8125			50	75	90	11.0	E	5	764.1 — 787.4	781					
777		8126			50	60	75			9	765.1 — 788.4						
778		8127			50	75	90			13	766.1 — 789.4						
779		8128			50	60	75			17	767.1 — 790.4						
780		8129			50	75	90			21	768.1 — 791.4						
781		8130			50	60	75			25	769.1 — 792.4						
782		8131			50	75	90			29	770.1 — 793.3		T96 NOT USED WALKING OFF SPREAD				
783		8132			50	60	75			29	770.1 — 793.3						
784		8133			50	75	90			29	770.1 — 793.3						
785		8134			50	60	75			29	770.1 — 793.3						
786		8135			50	75	90			29	770.1 — 793.3						
787		8136			50	60	75			29	770.1 — 793.3						
788		8137			50	75	90			29	770.1 — 793.3						
789		8138			50	60	75			29	770.1 — 793.3						
790		8139			50	75	90			29	770.1 — 793.3						
791		8140			50	75	90	22.0	W	29	770.1 — 793.3		T96 NOT USED PER CLIENT				

EOL