



GEO-211-C

This cover sheet must be completed at the beginning of each line, or when parameters change.

GENERAL

Crew No. 6834 Contract No. 799
 Client COCORP
 Area WASHINGTON
 Country WASHINGTON
 County PEND OREILLE
 Concession WASHINGTON
 State WASHINGTON
 Party Mgr. P. Davis OB/JO R. Patten
 Line No. 5 Date Start 9-26-84
 Sta. Int. 330' Feet Meters Fold 4800'
 Spread Dimensions 1-31350-96 ^{90'} _{99'}
 VP's Increase N E S W
A → B

GEOPHONES

Manufacture MD100's Array Length 322'
 Frequency 8Hz Array Width IN LINE
 No. per string 2-12 Array Across Between Sta
 per trace 24 TOTAL Centered
 Separation Ser Par Coil Res. 335 Ohms
 String Connected String Phone
 Shunt Res.
 Connected at Sta Ser Par Separation between elements in the array 14.34'
 14'

RECORDING SYSTEM

Type: MDS-10
 Format: SEG B
 No. of Channels: 96
 Sample Rate: 8 ms
 Record Length: 48 sec
 BPI: 800
 Low-Cut Filter Freq: OUT
 Slope: OUT
 High-Cut Filter Freq: ALIAS 3125Hz
 Slope: OUT
 Static Filter In Out
 Notch Filter In Out
 60 Hz
 UH Ch. Wireline On Tape N/A
 On Tape Radio On Tape N/A
 Sweep Ch. AUX 2 GALVO 50
 On Tape AUX 4 GALVO 52

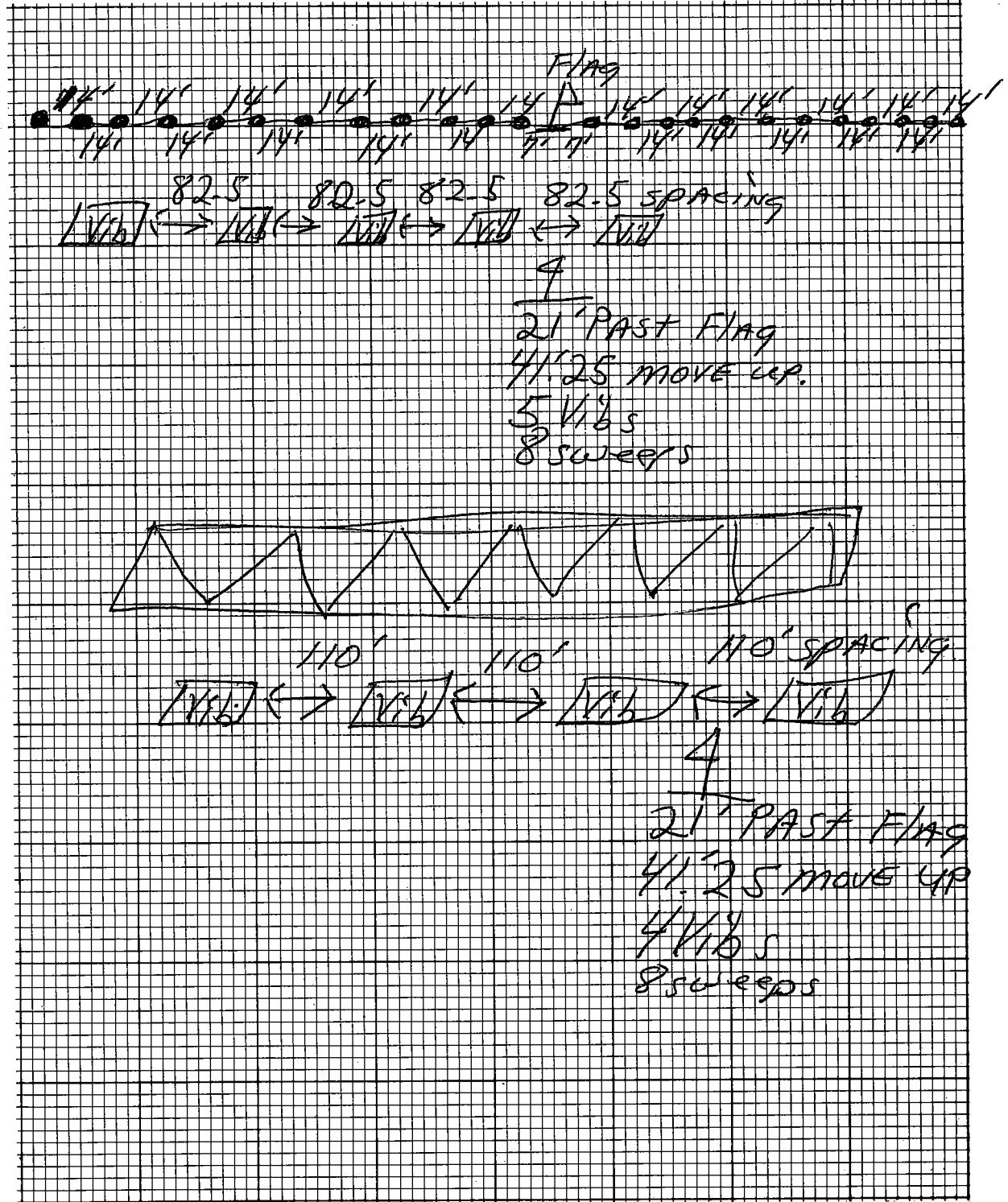
ENERGY SOURCE

Type: 4 x 1100's vibrators
1 x 900 vibrator
 Manufacturer: George E Failing
 Source Control: RCV-310

Dynamite Holes/Shotpoint: N/A
 Charge/Shotpoint: N/A
 Pattern Length: N/A Feet Meters

Surface Source Array Length: 489' Feet Meters
 No. of drops, sweeps, etc. in array: 8 Sweeps
 Sweep Freq: 8-932Hz
 Sweep Length: 32 sec
 Unit 5 Vib's Feet Separation: 82.5' Meters
 Unit Moveup: 41.25' Feet Meters
 Array Centered: Across Between Sta Sta

LINE COVER SHEET: DRAW DIAGRAM OF GEOPHONE ARRAY AND SOURCE ARRAY



REMARKS: Air Gun Delay, etc.

VARI SOURCE USED Yes No Invalid Channels:

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

GEO-252-D

CREW NO. 6834		LINE NO. 5		LEAVE TOWN/CAMP 7:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER Cloudy, Dirt Road		TRAIL CONDITIONS		DATE MONTH 9 DAY 26 YEAR 84		CLIENT COCORP		OBS. R. Patten		PM L. Davis	
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN PAMPS or "K"	PARITY		SHOOTING				SUR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS		
		TR	TR	TR	TR				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H.T.	N. UNITS	NO. SUMS						DRIVE
933	Pulse		1	-	6	sec	367	48						4	8	50%	73	990'	WASHINGTON, PEND OREILLE CO.				
934/935	EINT		2	-	"	"													BOT # 367 * 900 10 sec. All ones.				
936/939	DRD		4	-	"	"													4 Vib's, 1st Vib start 21' past				
953/954	Sym Test		2	-	"	"													ARRIVE Field 8:30				
960/961	NRS Test		2	-	"	"													Flag, 110' spacing, 41.25 move up. 8 sweeps, 8732Hz Sweep Freq.				
932	Similarity		1	-	32	sec	235							4	1	30%	9:45		STA # 49 OPEN, Due to # Road.				
001	windstrip		1	-	48	sec	3		4ms sample rate, Alias 62.5										Vib # 15382 Down, working on Pump				
002	1	4	-	99			3							4	8	50%	2:30						
003	2	5	-	100			4									50%							
004	3	6	-	101			5									50%							
005	4	7	-	102			6									50%							
006	5	8	-	103			7									50%							
007	6	9	-	104			8									50%							
008	7	10	-	105			9									50%							
009	8	11	-	106			10									50%							
010	9	12	-	107			11									50%							
011	10	13	-	108			12	367								50%			E.O. # 367, TAPE MKTS				
012	11	14	-	109			13	368	windstrip							60%			B.O. # 368, 900 10sec All ones				
013	11	14	-	109			13									50%							
014	12	15	-	110			14									50%							
015	13	16	-	111			15									50%							
016	14	17	-	112			16									50%	4:40						

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

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GEO-252-D

CREW NO. 6834		LINE NO. #5		LEAVE TOWN/CAMP 7:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER Clear		TRAIL CONDITIONS Diff Road		DATE MONTH 9 DAY 27 YEAR 84		CLIENT COCORP		OB. R. PATTON		PM Z. DAVIS	
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN PAMPS or "K"	PARITY		SHOOTING				SUR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS		
		TR	TR	TR	TR				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H.T.	N. UNITS	NO. SUMS						DRIVE
933	Pulse	1	-	6	sec		368	48						4	8	50%	87	990'		WASHINGTON, Bend OREILLE CO.			
934	FINT	2	-	11	" "															4 Vib's, 1st Vib starts 21' PAST Flag, 110' spacing, 41.25 move up,			
935	DRD	4	-	"	"												ARRIVE Field	8:40		31.25 Alias, 8 sweeps, 8 → 32 Hz			
936	sum test	2	-	"	"															Sweep Freq, 32 sec sweep, 48 sec Record Length,			
937	N.R.J	2	-	"	"															Vib #15 382 Down, working on Pump STA# 49 OPEN, Due to A Road.			
932	similarity	1	-	30	sec	23	235							4	1	50%		9:40					
017	windstrip	1	-	48	sec	3														4ms sample RATE, Alias 62.5			
018	15	18	-	113		3															4		
019	16	19	-	114		4															50%		
020	17	20	-	115		5															50%		
021	18	21	-	116		6															50%		
022	19	22	-	117		7	368														50%		
023	20	23	-	118		8	369														windstrip		
024	20	23	-	118		8															60db		
025	21	24	-	119		9															50%		
026	22	25	-	120		10															50%		
027	23	26	-	121		11															50%		
028	24	27	-	122		12															50%		
029	25	28	-	123		13															50%		
030	26	29	-	124		14															50%		
031	27	30	-	125		15															50%		
032	28	31	-	126		16															50%		
033	29	32	-	127		17															50%		
034	30	33	-	128		18															50%		
035	31	34	-	129		19															50%		
036	32	35	-	130		20	369														50%		
037	33	36	-	131		21	370														windstrip		
038	33	36	-	131		21															60db		
039	34	37	-	132		22															50%		
040	35	38	-	133		23															50%		
041	36	39	-	134		24															50%		
042	37	40	-	135		25															50%		
			-																		E.O.T # 369 TAPE MKTs		
			-																		B.O.T # 370, 900 10sec ALL ONES		

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

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CREW NO. 6834		LINE NO. 75		LEAVE TOWN/CAMP		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER clear		TRAIL CONDITIONS Dist Road		DATE MONTH 9 DAY 27 YEAR 84		CLIENT COCORP		OB R. PATTON L. DAVIS		PM	
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN PAMPS or "K"	PARITY		SHOOTING					INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS				
		TR	TR	TR	TR				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H.T.					N. UNITS	NO. SUMS	DRIVE	
043	38	41	-	136	26	370	48							4	8	50%	87	990'					
044	39	42	-	137	27											50%							
045	40	43	-	138	28											50%							
046	41	44	-	139	29											50%							
047	42	45	-	140	30											50%							
048	43	46	-	141	31											50%							
049	44	47	-	142	32											50%							
050	45	48	-	143	33	370										50%						E.O.#370, TAPE MKTS.	
051	46	49	-	144	34	371	windstrip									60%						B.O.#371, 900/10sec ALLOWES.	
052	46	49	-	144	34											50%							
053	47	50	-	145	35											50%							
054	48	51	-	146	36											50%							
055	49	52	-	147	37											50%							
056	50	53	-	148	38											50%							
057	51	54	-	149	39											50%							
058	52	55	-	150	40											50%							
059	53	56	-	151	41											50%							
060	54	57	-	152	42											50%							
061	55	58	-	153	43											50%							
062	56	59	-	154	44											50%							
063	57	60	-	155	45											50%							
064	58	61	-	156	46	371										50%						E.O.#371, TAPE MKTS.	
065	59	62	-	157	47	372	windstrip									60%						B.O.#372, 900/10sec ALLOWES.	
066	59	62	-	157	47											50%							
069	60	63	-	158	48											50%							
068	61	64	-	159	49											50%						5:00	

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

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GEO-252-D

CREW NO. 6834		LINE NO. 5		LEAVE TOWN/CAMP 7:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER Clear		TRAIL CONDITIONS Dirt Road		DATE MONTH 9 DAY 28 YEAR 84		CLIENT COCORP		OB. R. Patton		PM. L. Davis	
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN PAMPS or "K"	PARITY		SHOOTING					SUR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS	
		TR	TR	TR	TR				TAPE	MEMORY MISSED Sweeps	SIZE	TOP	BOT.	NO CAPS	U. H.T.	N. UNITS	NO. SUMS	DRIVE					
933	Pulse		1	6	sec		372	48							4	8	50%	135		990'	Washington, Pend OREILLE CO.		
934/935	EINT		2	"	"																4 Vib's, 1st Vib starts 21' past Flag, 110' spacing, 41.25 move up		
936/939	DRD		4	"	"										ARRIVE Field					8:40	32sec Sweep, 48sec Record, 8 Sweeps, Alias 31.25 Sweep Freq 8 → 32Hz.		
953/954	Sum Test		2	"	"																		
960/961	NRJ Test		2	"	"																		
932	Similarity		1	32	sec	235									4	1	30%			9:25	Vib #15382 Down, working on Pump.		
069	Windstrip		1	48	sec	2			4ms sample RATE, Alias 62.5														
070	62	65	-	160		2									4	8	50%			10:40			
071	63	66	-	161		3											50%						
072	64	67	-	162		4											50%						
073	65	68	-	163		5											50%						
074	66	69	-	164		6											50%						
075	67	70	-	165		7	372										50%				E.O. # 372, TAPE MKTS		
076	68	71	-	166		8	373	Windstrip									60%				B.O. # 373, 900 10sec All ones.		
077	68	71	-	166		8											50%						
078	69	72	-	167		9											50%						
079	70	73	-	168		10											50%						
080	71	74	-	169		11											50%						
081	72	75	-	170		12											50%						
082	73	76	-	171		13											50%						
083	74	77	-	172		14											50%						
084	75	78	-	173		15											50%						
085	76	79	-	174		16											50%						
086	77	80	-	175		17											50%						
087	78	81	-	176		18											50%						
088	79	82	-	177		19											50%						
089	80	83	-	178		20	373	EOT #373 tape MKTS.							5	8	50%				5 Vib's 82.5 spacing. Vib #15382 Back on Line.		
090	81	84	-	179		21	374	Windstrip									60%				BOT # 374 *900 10sec All ones.		
091	81	84	-	179		21											50%						
092	82	85	-	180		22											50%						
093	83	86	-	181		23											50%						
094	84	87	-	182		24											50%						

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

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GEO-252-D

CREW NO. 6834		LINE NO. 5		LEAVE TOWN/CAMP		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER Clear		TRAIL CONDITIONS Dirt Road		DATE MONTH 9 DAY 28 YEAR 84		CLIENT COCORP		OB R. Patton		PM L. Davis	
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN PAMPS or "K"	PARITY		SHOOTING					SUR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS	
		TR	TR	TR	TR				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H. T.	N. UNITS	NO. SUMS	DRIVE					
095	85	88	-	183	25	374	48								5	8	502	135			990'	STA* 183-189 OPEN Due to Bridge.	
096	86	89	-	184	26				1								502						
097	87	90	-	185	27												502						
098	88	91	-	186	28												502						
099	89	92	-	187	29												502						
100	90	93	-	188	30												502						
101	91	94	-	189	31												502						
102	92	95	-	190	32												502						STA* 190, 192, 194, + 196 OPEN Due to Drive-
103	93	96	-	191	33	374											502	3:40					ways. EOT* 374 Tape MKTs.

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

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CREW NO. 6834		LINE NO. 5		LEAVE TOWN/CAMP		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER Clear		TRAIL CONDITIONS Dirt Road		DATE MONTH 9 DAY 29 YEAR 84		CLIENT COCORP		OP R. Patten		PM L. Davis	
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN RAMP or "K"	PARITY		SHOOTING					SUR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS	
		TR	TR	TR	TR				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H. T.	N. UNITS	NO. SUMS	DRIVE					
129	118	121	-	216	11	37748									5	8	50%	182	990				B.O. # 377,900 10sec ALL ONES
130	118	121	-	216	11												50%						Recorder moved up at 182 & 183.
131	119	122	-	217	12												50%						
132	120	123	-	218	13												50%						
133	121	124	-	219	14												50%						
134	122	125	-	220	15												50%						
135	123	126	-	221	16												50%						
136	124	127	-	222	17												50%						
137	125	128	-	223	18												50%				3.15		

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

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GEO-252-D

CREW NO. 6834		LINE NO. 5		LEAVE TOWN/CAMP		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER Clear		TRAIL CONDITIONS Black Top		DATE MONTH 10 DAY 1		YEAR 84		CLIENT COCORP		OP R. Patton		PM L. Davis	
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN RAMP or "K"	PARITY			SHOOTING					INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS					
		TR	TR	TR	TR				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H.T.	N. UNITS					NO. SUMS	DRIVE			
163	150	153	-	248		35	379	48							5	8	308	190		990	Stacked Last HALF.				
164	151	154	-	249		36	379										308				E.O. + #379 TAPE MKTS.				
165	152	155	-	250		37	380										600				B.O. + #380, 900 10sec ALL ONES.				
166	152	155	-	250		37											308								
SKIP	153	156	-	251		38															SKIP From STA# 153 to 155 Due to Houses.				
167	156	159	-	254		41											308								
SKIP	157	160	-	255		42															SKIP Due to A HOUSE.				
168	158	161	-	256		43											308				LAST HALF STACKED				
169	159	162	-	257		44											308								
170	160	163	-	258		45											308								
171	161	164	-	259		46											308								
172	162	165	-	260		47											308								
173	163	166	-	261		48											308								
174	164	167	-	262		49											308			4:40					

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

GEO-252-D

CREW NO. 6834		LINE #5		LEAVE TOWN/CAMP		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER Clear		TRAIL CONDITIONS Dirt Road		DATE MONTH 10 DAY 2 YEAR 84		CLIENT COCORP		OB R. PATTON		PM L. DAVIS	
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN PAMPS or "K"	PARITY		SHOOTING				SUR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS		
		TR	TR	TR	TR				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H. T.	N. UNITS	NO. SUMS					DRIVE	
199	214	217	-	312	27	382	48							5	8	50%	262	990'	Recorder moved up at #262				
200	215	218	-	313	28											50%							
201	216	219	-	314	29	382										50%			E.O. # 382, TAPE MKTS				
202	217	220	-	315	30	383										60%			B.O. # 383, 900 10sec ALL ONES.				
203	217	220	-	315	30											50%							
204	218	221	-	316	31											50%							
205	219	222	-	317	32											50%							
206	220	223	-	318	33											50%							
207	221	224	-	319	34											50%							
208	222	225	-	320	35											50%							
209	223	226	-	321	36											50%							
210	224	227	-	322	37											50%							
211	225	228	-	323	38											50%							
212	226	229	-	324	39											50%							
213	227	230	-	325	40											50%							
214	228	231	-	326	41											50%							
215	229	232	-	327	42	283										50%			E.O. # 283, TAPE MKTS				
216	230	233	-	328	43	284										60%			B.O. # 284, 900 10sec ALL ONES.				
217	230	233	-	328	43											50%							
218	231	234	-	329	44											50%							
SKIP	232	235	-	330	45											SKIP	5:15		Due to A Fence.				

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OBSERVER REPORT PETTY-RAY GEOPHYSICAL

GEO-252-D

CREW NO.	LINE NO.	LEAVE TOWN/CAMP	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER	TRAIL CONDITIONS	DATE MONTH DAY	YEAR	CLIENT	OPD	PM									
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN	PARITY	SHOOTING			SUR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS		
		TR	TR	TR	TR			TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H. T.	N. UNITS	NO. SUMS	DRIVE				
933	Pulse		1	6	sec		384	48							5	8	50%	30%	990'	Washington, PEND OREILLE CO.	
934/935	EINT		2	"	"															5 Vib, 1st Vib starts 21' PAST FLAG, 82.5 spacing, 41.25 MOVE UP, 32 sec sweep, 48 sec Record	
936/939	DRD		4	"	"															ARRIVE FIELD 8:30	
953/954	Sum TEST		2	"	"															8 sweep, 31.25 Alias,	
960/961	NRJ TEST		2	"	"																
932	Similarity		1	32	sec	236									5	1	30%		9:25		
219	Windstrip		1	48	sec	2			4ms											Sample RATE, Alias 62.5	
220	233	238	-	331		2														60%	10:25
221	234	237	-	332		3														50%	
222	235	238	-	333		4														50%	
223	236	239	-	334		5														50%	
224	237	240	-	335		6														50%	
225	238	241	-	336		7														50%	
226	239	242	-	337		8	384													50%	
227	240	243	-	338		9	385	Windstrip												60%	E.O. + #384, TAPE MKTS. B.O. + #385, 900 10sec ALL ONES.
228	240	243	-	338		9			1											50%	
229	241	244	-	339		10														50%	
230	242	245	-	340		11														50%	
231	243	246	-	341		12														50%	
232	244	247	-	342		13														50%	
233	245	248	-	343		14			1											50%	
SKIP	246	249	-	344		15														50%	Due to cross-country.
234	247	250	-	345		16			1											50%	
235	248	251	-	346		17														50%	
236	249	252	-	347		18														50%	
237	250	253	-	348		19														50%	
SKIP	251	254	-	349		20														50%	Due to cross-country.
238	252	255	-	350		21														50%	
239	253	256	-	351		22														50%	
240	254	257	-	352		23	385													50%	E.O. + #385, TAPE MKTS
241	255	258	-	353		24	386	Windstrip												60%	B.O. + #386, 900 10sec ALL ONES
242	255	258	-	353		24									5	4	30%	Low Drive		4 Sweeps ONLY, File #242.	

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

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GEO-252-D

CREW NO.	LINE#	LEAVE TOWN/CAMP	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER	TRAIL CONDITIONS	DATE MONTH DAY	YEAR	CLIENT	OB	PM								
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN	PARITY	SHOOTING				SUR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS
		TR	TR	TR	TR					NO CAPS	U. H. T.	N. UNITS	NO. SUMS	DRIVE						
SKIP	256	259	-	354	25	386	48					5	8	SKIP	306	990			Due to A well.	
243	257	260	-	355	26															
244	258	261	-	356	27															
245	259	262	-	357	28															
246	260	263	-	358	29															
247	261	264	-	359	30															
248	262	265	-	360	31															
249	263	266	-	361	32															
250	264	267	-	362	33															
251	265	268	-	363	34															
SKIP	266	269	-	364	35															Due to Houses
SKIP	267	270	-	365	36															" " "
252	268	271	-	366	37															
253	269	272	-	367	38															
254	270	273	-	368	39	386														E.O. + #386, TAPE MKTS.
255	271	274	-	369	40	387	windstrip													B.O. + #387, 900/10sec ALL ONES.
256	271	274	-	369	40															
257	272	275	-	370	41															
258	273	276	-	371	42															
259	274	277	-	372	43															
260	275	278	-	373	44															
261	276	279	-	374	45															
262	277	280	-	375	46															
263	278	281	-	376	47															
SKIP	279	282	-	377	48															4.40 Due to A HOUSE:

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

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GEO-252-D		CREW NO. 6834	LINE NO. 5	LEAVE TOWN/CAMP 7:00	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER Partly cloudy	TRAIL CONDITIONS Dirt Road	DATE MONTH 10 DAY 4 YEAR 84	CLIENT COCORP	OB R. Patton	PM L. Davis								
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN PAMPS or "K"	PARITY		SHOOTING				SUR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS
		TR	TR	TR	TR				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H.T.	N. UNITS	NO. SUMS				
933	Pulse		1	6	sec		387	48							5	8	50%	347	990'	Washington, PEND OREILLE CO.	
934/935	EINT		2	"	"															5 Vibs, 1st Vib starts 21' PAST FLAG, 82.5' spacing, 4.25' MOVE UP.	
936/939	DRD		4	"	"															ARRIVE FIELD 8:30 32sec sweep, 48sec Record 8sweeps, Alias 31.25.	
953/954	Sum Test		2	"	"																
960/961	NRS Test		2	"	"																
932	Similarity		1	32	sec	236	387							5	1	30%		9:25		E.O.T #387, TAPE MKTS.	
264	windscrip		1	48	sec	8	388	4ms	SAMPLE RATE, Alias 62					5		60db				B.O.T #388, 900/10sec ALL ONES.	
265	280	283	-	378		8								5	8	50%		10:20		STACKED LAST HALF.	
266	281	284	-	379		9										50%				STACKED 1st HALF.	
SKIP	282	285	-	380		10										SKIP				Due to A HOUSE.	
267	283	286	-	381		11										30%					
268	284	287	-	382		12									4	30%				4sweeps only, File # 268.	
SKIP	285	288	-	383		13										SKIP				Due to A HOUSES	
SKIP	286	289	-	384		14										SKIP				" " " "	
SKIP	287	290	-	385		15										SKIP				" " "	
SKIP	288	291	-	386		16										SKIP				" " "	
269	289	292	-	387		17										30%				LAST HALF STACKED.	
270	290	293	-	388		18										50%					
271	291	294	-	389		19										50%					
272	292	295	-	390		20										30%					
273	293	296	-	391		21										50%					
274	294	297	-	392		22										50%					
295	295	298	-	393		23										50%					
296	296	299	-	394		24	388									50%				E.O.T #388, TAPE MKTS	
277	297	300	-	395		25	389	windscrip								60%				B.O.T #389, 900/10sec ALL ONES.	
278	297	300	-	395		25										50%					
279	298	301	-	396		26										50%					
280	299	302	-	397		27										50%					
281	300	303	-	398		28										50%					
282	301	304	-	399		29										50%					
283	302	305	-	400		30										50%					
284	303	306	-	401		31										50%					

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

CREW NO. 6834		LINE NO. 5		LEAVE TOWN/CAMP		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER Partly Cloudy Dirt Road		TRAIL CONDITIONS		DATE MONTH 10 DAY 4 YEAR 84		CLIENT COCORP		OP R. Patten		PM L. Davis		
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN PAMPS or "K"	PARITY		SHOOTING				SUR. SOURCES		INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS				
		TR	TR	TR	TR				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H. T.	N. UNITS					NO. SUMS	DRIVE		
285	304	307	-	402	32	389	48								5	8	50%	3:47	990					
286	305	308	-	403	33												50%							
287	306	309	-	404	34												50%							
288	307	310	-	405	35												50%							
289	308	311	-	406	36												50%							
290	309	312	-	407	37	389											50%							
291	310	313	-	408	38	390											60%						F.O.T #389, TAPE MKTS B.O.T #390, 900 10sec ALL ONES.	
292	310	313	-	408	38												50%							
293	311	314	-	409	39												50%							
294	312	315	-	410	40												50%							
295	313	316	-	411	41												50%							
296	314	317	-	412	42												50%							
297	315	318	-	413	43												50%							
298	316	319	-	414	44												50%							
299	317	320	-	415	45										4	8	50%							Light Mist starting to Fall on line. Vib #23652 Down, Broken Bolts in TOP OF mass.
300	318	321	-	416	46												50%							
301	319	322	-	417	47												50%							
302	320	323	-	418	48												50%							
303	321	324	-	419	49	390											50%							E.O.T #390, TAPE MKTS
304	322	325	-	420	50	390											50%							E.O.T #390, TAPE MKTS

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GEO-252-D		CREW NO.	LINE NO.	LEAVE TOWN	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER	TRAIL CONDITIONS	DATE MONTH	DAY	YEAR	CLIENT	OP.	PM						
		FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)			C. D. P. POSITION	DIGITAL REEL NO.	GAIN	PARITY		SHOOTING			SUR. SOURCES		INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS	
				TR	TR	TR		RAMP or "K"	TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H.T.	N. UNITS	NO. SUMS	DRIVE			
		6834	5			7:00															WASHINGTON, PEND OREILLE CO.
		933	Pulse	1	6	sec		391	48							4	8	50%	397	990	B.O.T # 391, 900 10sec ALL ONES
		934/935	EINT	2	"	"															4 Vib, 1st Vib starts 21' past Flag
		936/939	DRD	4	"	"															ARRIVE FIELD 8:20
		953/954	Sum Test	2	"	"															110' spacing, 41.25 move up, 8 sweeps
		960/961	NRJ Test	2	"	"															32sec sweep, 48sec Record Length
		932	Similarity	1	32	sec	235									4	1	30%	9:15		Vib # 23652 Down, working on mass.
		305	windstrip	1	48	sec				4ms sample						62.5	60%				
		306	323	326	-	421	1									4	8	50%	9:55		
		307	324	327	-	422	2			1								50%			
		308	325	328	-	423	3											50%			
		309	326	329	-	424	4											50%			
		310	327	330	-	425	5											50%			
		311	328	331	-	426	6			1								50%			
		312	329	332	-	427	7											50%			
		313	330	333	-	428	8											50%			
		314	331	334	-	429	9											50%			
		315	332	335	-	430	10	391		1								50%			E.O.T # 391, TAPE MKTS
		316	333	336	-	431	11	392		windstrip								60%			B.O.T # 392, 900 10sec ALL ONES
		317	333	336	-	431	11											50%			
		318	334	337	-	432	12											50%			
		319	335	338	-	433	13											50%			
		320	336	339	-	434	14											50%			
		321	337	340	-	435	15											50%			
		322	338	341	-	436	16											50%			
		323	339	342	-	437	17											50%			
		324	340	343	-	438	18											50%			
		325	341	344	-	439	19											50%			
		326	342	345	-	440	20			1								50%			
		327	343	346	-	441	21											50%			
		328	344	347	-	442	22											50%			
		329	345	348	-	443	23	392										50%			E.O.T # 392, TAPE MKTS
		330	346	349	-	444	24	393		windstrip								60%			B.O.T # 393, 900 10sec ALL ONES

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CREW NO. 6834		LINE NO. #5		LEAVE TOWN/CAMP		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER Clear		TRAIL CONDITIONS Dist Road		DATE MONTH 10 DAY 5 YEAR 84		CLIENT COCORP		OB R. PATTON PM L. DAVIS		
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN PAMPS or "K"	PARITY		SHOOTING					SUR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS
		TR	TR	TR	TR				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H. T.	N. UNITS	NO. SUMS	DRIVE				
331	346	349	-	444	24	393	48								4	8	50%	397	990			
332	347	350	-	445	25												50%					
333	348	351	-	446	26												50%					
334	349	352	-	447	27												50%					
335	350	353	-	448	28												50%					
336	351	354	-	449	29												50%					
337	352	355	-	450	30												50%					
338	353	356	-	451	31												50%					
339	354	357	-	452	32												50%					
340	355	358	-	453	33												50%					
341	356	359	-	454	34												50%					
342	357	360	-	455	35												50%					
343	358	361	-	456	36	393											50%				E.O. + #393, TAPE MKTS.	
344	359	362	-	457	37	394	wind strip										60%				B.O. + #394, 900 10sec ALL ONES.	
345	359	362	-	457	37												50%					
346	360	363	-	458	38												50%					
347	361	364	-	459	39												50%					
348	362	365	-	460	40												50%					
349	363	366		461	41												50%					
350	364	367	-	462	42												50%					
351	365	368	-	463	43												50%					
352	366	369	-	464	44												50%					
353	367	370	-	465	45												50%			4:45		

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

GEO-252-D		LEAVE TOWN/CAMP		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER		TRAIL CONDITIONS		DATE		CLIENT		OB.		PM.																			
CREW NO.	LINE NO.	CAMP				CAMP								MONTH	DAY	YEAR																							
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN	PARITY	SHOOTING			SUR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS																				
		TR	TR	TR	TR			PAMPS or "K"	TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H.T.	N. UNITS	NO. SUMS	DRIVE																					
933	Pulse		1	-	6	sec	394	48								4	8	50%	4:30	990	Washington, PEND OREILLE CO.																		
934/935	EXT		2	-	"	"															5 Vib's, 1st Vib START 21' PAST FLAG																		
936/939	DRD		4	-	"	"															82.5' SPACING, 41.25' MOVE UP,																		
953/954	Sum Test		2	-	"	"															8 Sweeps, 32 sec Sweep, 48 sec																		
960/961	NRS Test		2	-	"	"															Record, Alias 31.25, 8 → 32Hz Sweeps																		
932	Similarity		1	-	32	sec	235	394								4	1	30%	9:20		Freq. Vib #17311 Down, MASS Problems.																		
354	Windstrip		1	-	48	sec	13	395	4m sample RATE, Alias 62.5													E.O.T #394, TAPE MKTS																	
355	368	371	-	466		13										4		50%	10:30		B.O.T #395, 900/10sec ALL ONES																		
356	369	372	-	467		14												50%			NOTE: Replaced two leaking cables.																		
357	370	373	-	468		15												50%																					
358	371	374	-	469		16										5		50%			Vib #17311, BACK ON LINE.																		
359	372	375	-	470		17												50%																					
360	373	376	-	471		18												50%																					
361	374	377	-	472		19												50%																					
362	375	378	-	473		20												50%																					
363	376	379	-	474		21												50%																					
364	377	380	-	475		22												50%																					
365	378	381	-	476		23												50%																					
366	379	382	-	477		24	395											50%			E.O.T #395, TAPE MKTS																		
367	380	383	-	478		25	396	Windstrip										60%			B.O.T #396, 900/10sec ALL ONES																		
368	380	383	-	478		25												50%																					
369	381	384	-	479		26												50%																					
370	382	385	-	480		27												50%																					
371	383	386	-	481		28												50%																					
372	384	387	-	482		29												50%																					
373	385	388	-	483		30												50%																					
374	386	389	-	484		31												50%																					
375	387	390	-	485		32												50%																					
376	388	391	-	486		33												50%																					
377	389	392	-	487		34												50%																					
378	390	393	-	488		35												50%																					
379	391	394	-	489		36												50%																					

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

GEO-252-D

CREW NO. 6834		LINE NO. #5		LEAVE TOWN/CAMP		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER Clear		TRAIL CONDITIONS Dirt Road		DATE MONTH 10 DAY 8 YEAR 84		CLIENT COCORP		OP R. Patton		PM L. Davis	
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN PAMPS or "K"	PARITY		SHOOTING					SUR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS	
		TR	TR	TR	TR				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H.T.	N. UNITS	NO. SUMS	DRIVE					
412	420	423	-	518	24	399	48								4	8	30%	471	990				Washington, Stevens CO,
413	421	424	-	519	25												30%						
414	422	425	-	520	26												30%						
415	423	426	-	521	27												30%						
416	424	427	-	522	28												30%						
417	425	428	-	523	29												30%						
418	426	429	-	524	30												30%						
419	427	430	-	525	31	399											30%						EOT # 399 *TAPE MKTS.
420	428	431	-	526	32	400		windstrip									60db						BOT # 400 *900 10 sec, All ones
421	428	431	-	526	32												30%						
422	429	432	-	527	33												30%						
423	430	433	-	528	34									5			30%						Vib #17311, BACK ON LINE-
424	431	434	-	529	35												30%						
425	432	435	-	530	36												30%						
426	433	436	-	531	37												30%						
427	434	437	-	532	38												30%						
428	435	438	-	533	39												30%						
429	436	439	-	534	40												30%						
430	437	440	-	535	41												30%						
431	438	441	-	536	42												30%						
432	439	442	-	537	43												30%						
433	440	443	-	538	44	400											30%						5:00 E.O.T #400, TAPE MKTS.

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CREW NO. 6834		LINE NO. 5		LEAVE TOWN/CAMP		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER Partly cloudy		TRAIL CONDITIONS Black top		DATE MONTH 10 DAY 9 YEAR 84		CLIENT COCORP		OB. R. Patten		PM L. Davis	
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN PAMPS or "K"	PARITY		SHOOTING					INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS				
		TR	TR	TR	TR				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H. T.					N. UNITS	NO. SUMS	DRIVE	
460	464	467	-	562	26	403	48								5	8	502	513	990				
461	465	468	-	563	27												502						
462	466	469	-	564	28					1							502						
463	467	470	-	565	29												502						
464	468	471	-	566	30												502						
465	469	472	-	567	31										4	8	502					Vib # 17311 Down, Broken Column BOLT.	
466	470	473	-	568	32												502						
467	471	474	-	569	33												502						
468	472	475	-	570	34												302					Vibs Back on Black Top, Low Drive.	
469	473	476	-	571	35												302						
470	474	477	-	572	36												302					STA # 572 open due to Road.	
471	475	478	-	573	37												302						
472	476	479	-	574	38	403											302					EOT # 403 Tape MKTs.	
473	477	480	-	575	39	404				windstrip							602b					BOT # 404 #900 10 sec All ones.	
474	477	480	-	575	39												302						
475	478	481	-	576	40										5	8	302					Vib # 17311 Back on Line.	
476	479	482	-	577	41												302						
477	480	483	-	578	42												302						
478	481	484	-	579	43												302						
479	482	485	-	580	44					1							302						
480	483	486	-	581	45												302						
481	484	487	-	582	46												302						
482	485	488	-	583	47												302						
483	486	489	-	584	48												302						
484	487	490	-	585	49	404											302	5:15				EOT # 404 Tape MKTs.	

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CREW NO.	LINE NO.	LEAVE TOWN/CAMP	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER	TRAIL CONDITIONS	DATE MONTH	DAY	YEAR	CLIENT	OP.	PM.						
6834	5	7:00				Partly cloudy, black top	Black top	10	10	84	COCORP	R. Patten	P. Davis						
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)	C. D. P. POSITION	DIGITAL REEL NO.	GAIN	PARITY	SHOOTING	SIZE	TOP	BOT.	NO CAPS	U. H.T.	N. UNITS	NO. SUMS	DRIVE	INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS
933	Pulse	1-6	sec	405	48								5	8	30%	530	990'		Washington, Stevens Co. BOT # 405 # 900 10sec All ones.
934/935	FINT	2 - " "																	5 Vib, 1st Vib starts 21' past flag
936/939	DRD	4 - " "															7:50		82.5 spacing, 41.25 wave up, 8 sweep
953/954	Sum test	2 - " "																	32sec sweep, 48sec Record, Alias 31.25
960/961	MRS Test	2 - " "																	8 > 32Hz Sweep Freq.
932	similarity	1 - 32	sec	236									5	1	30%		8:25		cable crossing Black top #543-544,
485	windstrip	1 - 48	sec	13															#546-547, lots of logging tracks
486	488	491 - 586		13									5	8	30%		9:10		Along line, STA # 572 OPEN, due to
487	489	492 - 587		14															A Road.
488	490	493 - 588		15															
489	491	494 - 589		16															
490	492	495 - 590		17															
491	493	496 - 591		18															
492	494	497 - 592		19															
493	495	498 - 593		20															
494	496	499 - 594		21															
495	497	500 - 595		22	405														
496	498	501 - 596		23	406	windstrip													
497	498	501 - 596		23															
498	499	502 - 597		24															
499	500	503 - 598		25															
500	501	504 - 599		26															
501	502	505 - 600		27															
502	503	506 - 601		28															
503	504	507 - 602		29															
504	505	508 - 603		30															
505	506	509 - 603		30															
506	508	511 - 603		30															
507	511	508 514	603	30															
508	514	508 511 517	603	30															
509	517	508 514 520	603	30	406														
510	520	508 517 523	603	30	407	windstrip													

C.D.P will remain the same, Vib's will be shooting through the spread.

E.O. # 406, TAPE MKTS.
B.O. # 407, 900 10sec ALL ONES.

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

GEO-252-D

CREW NO. 6834		LINE # 5		LEAVE TOWN/CAMP		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER		TRAIL CONDITIONS			DATE MONTH 10 DAY 10 YEAR 84		CLIENT		OB. R. PATTON		PM. Z. DAVIS	
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN PAMPS or "K"	PARITY		SHOOTING				NO. UNITS	NO. SUMS	DRIVE	INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS			
		TR	TR	TR	TR				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS									U. H. T.	
511	520	508	517	523	603	30	407	48						5	8	30%	530	990						
512	523	508	520	526	603	30										30%								
513	528	508	525	531	603	30										30%								
514	532	508	529	535	603	30										30%								
515	534	508	531	537	603	30										30%								
516	537	508	534	540	603	30										30%								
517	541	508	538	544	603	30										30%								
518	543	508	540	546	603	30										30%								
519	547	508	544	550	603	30										30%								
520	551	508	548	554	603	30										30%								
521	553	508	552	558	603	30										30%								
522	559	508	556	562	603	30										30%								
523	564	508	561	567	603	30	407									30%								EOT # 407 Tape MKTS.
524	569	508	566	572	603	30	408	wind strip								60%								B.O.T # 408, 900 10sec. HILONES.
525	569	508	566	572	603	30										30%								
526	576	508	573	579	603	30										30%								
527	578	508	575	581	603	30										30%								
528	583	508	580	586	603	30										30%								
529	590	508	587	593	603	30										30%								
530	601	508	598	—	603	30	408									30%								E.O.T # 408, TAPE MKTS.