

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

CREW NO. 6834		LINE NO. 2	LEAVE TOWN/CAMP 7:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME	DOWN TIME	WEATHER clear	TRAIL CONDITIONS dirt road	DATE MONTH 9 DAY 23 YEAR 85	CLIENT Co Corp	OB Ambrose	PM Cassidy							
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN PAMPS OF "K"	PARITY		SHOOTING				SUR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS
		TR 1	TR	TR	TR 4				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U.H.T.	N. UNITS	NO. SUMS				
933	Pulse	16			3cc		060	48k									460	4	4 vibz 110' spacing 1st vib starts 21' past flag		
934-935	E Int	26			3cc														41.25' more ops 32 sec sweep 10-32 hr sweep freq		
936-939	Drd	46			3cc									Arrived field		8:00		8 sweeps 8ms sample rate Alias 31.25hz			
933-934	Sum	26			3cc													48 sec ice			
966-961	NRJ	26			3cc																
932	Similarity	132			3cc				5ims taken through line with camera				4	1	30%	8:40		Vib # 25865 down, guide column bolt.			
440	Wind strip	148			35				4ms sample rate Alias 62.5hz						60db	8:55					
441	419	423			518	35									8	50%					
442	420	424			519	36										50%					
443	421	425			520	37										50%					
444	422	426			521	38										50%					
445	423	427			522	39	060									50%		E.O.T. # 060 Tape marks			
446	424	428			523	40	061		wind strip						60db			B.O.T # 061 #908 All ones 10 sec			
447	424	428			523	40										50%					
448	425	429			524	41										50%					
449	426	430			525	42										50%					
450	427	431			526	43										50%					
451	428	432			527	44										50%					
452	429	433			528	45										50%					
453	430	434			529	46										50%					
454	431	435			530	47										50%					
455	432	436			531	48										50%					
456	433	437			532	49	061									50%	11:00		Sta. 532 E.O.L., E.O.T. # 061 Tape marks		

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GEO-252-D

CREW NO. 2834		LINE NO. 2		LEAVE TOWN/CAMP		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER		TRAIL CONDITIONS			DATE MONTH 9 DAY 22 YEAR 75		CLIENT Cocorp		OB Ambrose		PM Cassidy		
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 1	TR	TR	TR 4				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H. T.	N. UNITS	NO. SUMS	DRIVE							
427	407	411			506	23	059	48K		sweeps missed	2					4	8	50%	460						
428	408	412			507	24				1								50%							
429	409	413			508	25												50%							
430	410	414			509	26				1								50%							
431	411	415			510	27				2								50%							
432	412	416			511	28				2								50%							
433	413	417			512	29	059			1								50%						E.D.T. # 059 Tape marks	
434	414	418			513	30	060		wind strip									60db						B.D.T. # 060 # 900 All ones 10 sec.	
435	414	418			513	30												50%							
436	415	419			514	31												50%						standing by for (hr) Vib # 25874 down	
437	416	420			515	32				1								50%						replacing centering shaft seal. 4 vibs	
438	417	421			516	33				1								50%							
439	418	422			517	34												50%				4:00			

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CREW NO. 6834		LINE NO. 2		LEAVE TOWN/CAMP		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER clear		TRAIL CONDITIONS dirt road		DATE MONTH 9 DAY 21 YEAR 85		CLIENT Co corp		OB R. Ambrose		PM Cassidy	
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 1	TR	TR				TR 2	TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H. T.	N. UNITS	NO. SUMS					DRIVE	
373	358	362			457	27	055	48K							5	8	50%	407		4			
374	359	363			458	28											50%						
375	360	364			459	29											50%						
376	361	365			460	30											50%						
377	362	366			461	31											50%						
378	363	367			462	32											50%						
379	364	368			463	33	055										50%					E.O.T. #055 Tape marks	
380	365	369			464	34	056		wind strip								60db					B.O.T. #056 #900 All ones 10 sec	
381	365	369			464	34											50%						
382	366	370			465	35											50%						
383	367	371			466	36											50%						
384	368	372			467	37											50%						
385	369	373			468	38								4			50%					Vib #25874 down replacing ped bolts	
386	370	374			469	39											50%					4 vibs (110' spacing)	
387	371	375			470	40											50%						
388	372	376			471	41											50%						
389	373	377			472	42											50%						
390	374	378			473	43											50%						
391	375	379			474	44											50%						
392	376	380			475	45											50%						
393	377	381			476	46	056										50%					E.O.T. #056 Tape marks	
394	378	382			477	28	057		wind strip								60db					B.O.T. #057 #900 All ones 10 sec	
395	378	382			477	28									5		50%					New recorder set up Vib #25874 fixed.	
396	379	383			478	29											50%					(82.5' spacing)	
397	380	384			479	30											50%						
398	381	385			480	31									4		50%					Vib #32940 down, fuel problems.	
399	382	386			481	32											50%						
400	383	387			482	33											50%					4:15	

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GEO-252-D		CREW NO. 6834	LINE NO. 2	LEAVE TOWN/CAMP	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER Clear	TRAIL CONDITIONS paved road	DATE MONTH 9 DAY 20 YEAR 85	CLIENT Co corp	OB P. Moore	PM Cassidy							
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 1	TR	TR	TR 4				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H. T.					N. UNITS
320	305	309			404	24	051	4K							4	8	30%	357	4	Montana, Lincoln Co.
321	306	310			405	25											30%			
322	307	311			406	26											30%			
323	308	312			407	27											30%			
324	309	313			408	28											30%			
325	310	314			409	29	051							E.O.T. #051 Tape marks	5		30%			Vib #23652 back on line (82.5' spacing)
326	311	315			410	30	052		wind strip								60db			B.O.T. #052 #900 All ones 10 see
327	311	315			410	30											30%			VP# 311 on 1st half - house
Skip	312	316			411	31											Skip			VP# 312 skip - house
328	313	317			412	32											30%			VP# 313 on last half - house
329	314	318			413	33											30%			VP# 314 on first half - barn
Skip	315	319			414	34											Skip			VP# 315 skip - house
330	316	320			415	35											30%			VP# 316 on last half - house
331	317	321			416	36											30%			
332	318	322			417	37											30%			
333	319	323			418	38											30%			
334	320	324			419	39											30%			
335	321	325			420	40											30%			
336	322	326			421	41											30%			
337	323	327			422	42											30%			
338	324	328			423	43											30%			
339	325	329			424	44	052										30%			E.O.T. #052 Tape marks
340	326	330			425	45	053		wind strip								60db			B.O.T. #053 #900 All ones 10 see
341	326	330			425	45									4		30%			Vib #25865 down, inst problems 4 vib (110' spacing)
342	327	331			426	46											30%			
343	328	332			427	47											30%			
344	329	333			428	48									5		30%			Vib #25865 back on line. (82.5' spacing)
345	330	334			429	49											30%			
346	331	335			430	50											30%			
347	332	336			431	51											30%	4:00		

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CREW NO.	LINE NO.	LEAVE TOWN/CAMP	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER	TRAIL CONDITIONS	DATE MONTH	YEAR	CLIENT	OB	PM							
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)			C. D. P. POSITION	DIGITAL REEL NO.	GAIN PAMPS or "K"	PARITY TAPE	MEMORY	SHOOTING			SUR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS
		TR	TR	TR					SIZE	TOP	BOT.	NO CAPS	U. H.T.	N. UNITS	NO. SUMS	DRIVE			
933	Pulse	1	6		SEC	046	48K										323	4	5 vibs, 82.5' spacing 1st vib starts at post flag
934-935	E Int	2	6		SEC														41.25' move ups 32 sec sweep 10-732 h2 sweep/flag
936-939	Dred	4	6		SEC									Arrived field			7:45		8 sweeps 8ms sample rate Alias 31.25 Hz
953-954	Sum	2	6		SEC														48 sec rcc
960-961	NRTJ	2	6		SEC														
932	Similarity	1	32		SEC										5	1	30%	8:40	Note: late start due to leakage.
256	Wind strip	1	48		SEC	238			4ms sample rate								60db		Alias 62.5 Hz
257	244	248			343	238			1							8	30%	9:00	VP# 244 on 1st half low drive - house
Skip	245	249			344	239											Skip		Skip from VP# 245 - #248 - houses & wells
258	249	253			348	3	046		1	E.O.T. #046	Tape marks					30%			VP# 249 on last half low drive - houses
259	250	254			349	4	047			Wind strip	B.O.T. #047					60db			B.O.T. #047 #900 All ones 10 sec
260	250	254			349	4										30%			Vibs on a paved road - 30% drive
261	251	255			350	5			1							30%			
262	252	256			351	6										30%			
263	253	257			352	7										30%			
264	254	258			353	8			2							30%			
265	255	259			354	9										30%			
266	256	260			355	10			1							30%			
267	257	261			356	11			1							30%			
268	258	262			357	12								4		30%			Vib# 25865 down, bad servo valve
269	259	263			358	13										30%			4 vibs (110' spacing)
270	260	264			359	14			1							30%			
271	261	265			360	15			2							30%			
272	262	266			361	16	047									30%			E.O.T. #047 Tape marks
273	263	267			362	17	048			Wind strip						60db			B.O.T. #048 #900 All ones 10 sec
274	263	267			362	17								5		30%			Vib# 25865 back on line (82.5' spacing)
275	264	268			363	18			1							30%			
276	265	269			364	19										30%			
277	266	270			365	20			1					4		30%			Vib# 25865 down, bad insts cable
278	267	271			366	21										30%			4 vibs (110' spacing)
279	268	272			367	22										30%			
280	269	273			368	23										30%			Light RAIN falling All day

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CREW NO.	LINE NO.	LEAVE TOWN/CAMP	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER	TRAIL CONDITIONS	DATE MONTH	CLIENT	OB	PM										
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				
281	270	274			369	24	048	48K							4	8	30%	322		4	Montana, Lincoln Co.
282	271	275			370	25											30%				
283	272	276			371	26											30%				
284	273	277			372	27									5		30%				vib # 25865 back on line (82.5' spacing)
285	274	278			373	28											30%				
286	275	279			374	29	048		1								30%				E.O.T. # 048 Tape marks
287	276	280			375	30	049		wind strip								60db				B.O.T. # 049 # 900 All ones 10 sec
288	276	280			375	30			1								30%				
289	277	281			376	31									4		30%				vib # 23652 down, fuel leak 4 vibos
290	278	282			377	32											30%				(110 spacing)
291	279	283			378	33											30%				
292	280	284			379	34			1								30%				
293	281	285			380	35			1								30%		2:25		shut down due to rain & leakage.

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GEO-252-D

CREW NO. 6834		LINE NO. 2		LEAVE TOWN/CAMP 7:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER Overcast wet dirt road		TRAIL CONDITIONS		DATE MONTH 9 DAY 17 YEAR 85		CLIENT Co Corp		OB R. Ambrose D. Moore		PM Cassidy	
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				042	48K									273 274	4		Montana, Lincoln Co.		5 vibs, 82.5' spacing 1st vib starts 21' past flag	
934-935	E Int	2	6																			41.25' move ups 32 sec sweep 10-7.33 hz sweep	
936-939	Drd	4	6															7:45				Arrived field freq 8 sweeps 8ms sample rate Alias 31.25 hz	
953-954	Sum	2	6																			48 sec rec.	
960-961	NRT	2	6				042											8:40				E.O.T. #042 Tape marks	
932	Similarity	1-32													5	1	30%					sims taken through line with camera	
207	Wind strip	1-48			2	043		4ms									60db					4ms sample rate Alias 62.5 hz	
208	199	203			298	2											8	50%	8:55			B.O.T. #043 #900 All ones 10 sec	
209	200	204			299	3																Late start due to leakage	
210	201	205			300	4																Low drive - camp grounds	
211	202	206			301	5																	
212	203	207			302	6																	
213	204	208			303	7																	
214	205	209			304	8																	
215	206	210			305	9																	
216	207	211			306	10																	
217	208	212			307	11																	
218	209	213			308	12																	
219	210	214			309	13	043																
220	211	215			310	14	044															wind strip	
221	211	215			310	14																E.O.T. #043 Tape marks	
222	212	216			311	15																B.O.T. #044 #900 All ones 10 sec	
223	213	217			312	16																Vibs in low drive due to wet road conditions	
224	214	218			313	17																	
225	215	219			314	18																	
226	216	220			315	19																	
227	217	221			316	20																	
228	218	222			317	21																	
229	219	223			318	22																	
230	220	224			319	23																	
231	221	225			320	24																	
232	222	226			321	25																	

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GEO-252-D

CREW NO. 6834		LINE NO. 2		LEAVE TOWN/CAMP 6:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER Cloudy wet dirt road		TRAIL CONDITIONS		DATE MONTH 9 DAY 13 YEAR 85		CLIENT Cocorp		OB RAmbrose D.Moore		PM Cassidy	
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	16			see		038	40K													4	Montana, Lincoln Co.	
934-935	E-Fnt	26			see																		5 vibs, 82.5' spacing 1st vib starts 21' past flag
936-939	Drd	46			see										Arrived field		7:10						41.25' move up 32 see sweep 109 32 Hz sweep
953-954	Sum	26			see																		freq 8 sweeps 8ms sample rate Alias 31.25 Hz
960-961	NRTJ	26			see		038																E.O.T. #038 Tape marks
932	similarity	132			see										sims taken through line with camera	5	1	30%			8:25		
154	Windstrip	48			see	1	039								4ms sample rate Alias 62.5 Hz			60db					B.O.T. #039 #900 All ones 10 see
155	150	154					249	1										8	50%		8:35		
156	151	155					250	2											50%				
157	152	156					251	3											50%				
158	153	157					252	4											50%				
159	154	158					253	5											50%				
160	155	159					254	6											50%				
161	156	160					255	7											50%				
162	157	161					256	8											50%				
163	158	162					257	9											50%				
164	159	163					258	10											50%				
165	160	164					259	11											50%				
166	161	165					260	12	039										50%				E.O.T. #039 Tape marks
167	162	166					261	13	040						wind strip				60db				B.O.T. #040 #900 All ones 10 see
168	162	166					261	13											50%				
169	163	167					262	14											50%				
170	164	168					263	15											50%				
171	165	169					264	16											50%				
172	166	170					265	17											50%				
173	167	171					266	18											50%				
174	168	172					267	19											50%				
175	169	173					268	20										4	50%				vib # 32940 down, Hyd. leak. 4 vibs
176	170	174					269	21											50%				(110' spacing)
177	171	175					270	22											50%				
178	172	176					271	23											50%				
179	173	177					272	24											50%				

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GEO-252-D

CREW NO. 6834		LINE NO. 2	LEAVE TOWN/CAMP 6:00	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER Cloudy w/ drif fog	TRAIL CONDITIONS	DATE MONTH 9 DAY 11 YEAR 85	CLIENT Co corp	OB R. Ambrase	PM Cassidy								
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 1	TR	TR				TR 4	TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H.T.	N. UNITS				
933	Pulsc		16		sec	034	48k												Montana, Lincoln Co.	
934-935	E Int		26		sec														4 ribs 110' spacing 1st rib starts 21' past flag	
936-939	Drd		46		sec									Arrived field	7:20				4.25' move ups 32 sec sweep 10-32hz sweep drag	
953-954	Sum		26		sec														8 sweeps 8ms sample rate 48 sec record Alias 31.25hz	
960-961	NRS		26		sec														lib # 25865 down, being serviced.	
932	Similarly	1-32			sec									4	1	30%	8:05		sims taken through line with camera	
099	Wind strip	1-48			sec	1													4ms sample rate Alias 62.5hz	
100	100	104			199	1													60db	
101	101	105			200	2	034												8 50%	
102	102	106			201	3	035	wind strip											60db	
103	102	106			201	3													50%	
104	103	107			202	4													50%	
105	104	108			203	5													50%	
106	105	109			204	6													50%	
107	106	110			205	7													50%	
108	107	111			206	8													50%	
109	108	112			207	9													50%	
110	109	113			208	10													50%	
111	110	114			209	11													50%	
112	111	115			210	12													50%	
113	112	116			211	13													50%	
114	113	117			212	14													50%	
115	114	118			213	15	035												50%	
116	115	119			214	16	036	wind strip											60db	
117	115	119			214	16													50%	
118	116	120			215	17													50%	
119	117	121			216	18													50%	
120	118	122			217	19													50%	
121	119	123			218	20													50%	
122	120	124			219	21													50%	
123	121	125			220	22													50%	
124	122	126			221	23													50%	

E.O.T. # 035 Tape marks
B.O.T. # 036 # 900 All ones 10 sec

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CREW NO. 6834		LINE NO. 2	LEAVE TOWN/CAMP 6:00	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER Cloudy	TRAIL CONDITIONS wet dirt roads	DATE MONTH 9 DAY 10 YEAR 85	CLIENT Cocorp	OB R. Ambrose	PM D. Moore	Cassidy								
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 1	TR	TR	TR 96				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H. T.	N. UNITS	NO. SUMS				
933	Pulse		16		see		032	48K										14 1/4	4	Montana, Lincoln Co.	
934-935	E. Int		26		see															B.O.T. #032 #900 All ones 10 sec	
936-939	Drd		46		see															4 vibs, 110' spacing P ⁺ vib starts 21' past - log	
953-954	Sum		26		see									Arrived field						41.25' more ups 32 sec sweep 10-32 hz sweep	
960-961	NRT		26		see															freq. 8 sweeps 8ms sample rate 48 sec rec.	
932	Similarity		132		see															Alias 31.25 hz	
064	Wind strip		148		see															sims taken through line with camera	
065	68	72			167	3														4ms sample rate Alias 62.5 hz	
066	69	73			168	4															
067	70	74			169	5															
068	71	75			170	6															
069	72	76			171	7															
070	73	77			172	8															
071	74	78			173	9															
072	75	79			174	10															
073	76	80			175	11															
074	77	81			176	12															
075	78	82			177	13	032														
076	79	83			178	14	033		Wind strip												
077	79	83			178	14															
078	80	84			179	15															
079	81	85			180	16															
080	82	86			181	17															
081	83	87			182	18															
082	84	88			183	19															
083	85	89			184	20															
084	86	90			185	21															
085	87	91			186	22															
086	88	92			187	23															
087	89	93			188	24															
088	90	94			189	25															
089	91	95			190	26	033														

crew standing by taking sims.
 Vib #23652 fixed back on line. Vib #25865 down, being serviced. 4 vibs
 E.O.T. #032 Tape marks
 B.O.T. #033 #900 All ones 10 sec
 E.O.T. #033 Tape marks

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

GEO-252-D

CREW NO. 6834		LINE NO. 2		LEAVE TOWN/CAMP 6:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER Clear		TRAIL CONDITIONS Dirt roads			DATE MONTH 9 DAY 4 YEAR 85		CLIENT Cocorp		OB P. Ambrose D. Moore		PM Cassidy								
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	16			see		028	48K																Montana, Lincoln Co.							
934-935	E Int	26			see																				4 vibs 110' spacing 1st vib starts 21' past flag						
936-939	Drd	46			see																				41.25' move ups 32 see sweep 10 → 32 hz						
954-954	Sum	26			see																				sweep freq 8 sweeps 8ms sample rate 48 sec						
960-960	NRS	26			see																				record Alias 31.25 hz						
932	Similarity	1-32			see																				Vib # 25824 down, busted guide column bolt.						
020	Wind strip	-H8			see	1																			sims taken through line with camera	4	1	30%	8:50		
021	19	23			118	1																			4ms sample rate Alias 67.5 hz						
022	20	24			119	2																									
Skip	21	25			120	3																									
023	29	33			128	11	028																								
024	30	34			129	12	029																								
025	30	34			129	12																									
026	31	35			130	13																									
Skip	32	36			131	14																									
027	33	37			132	15																									
028	34	38			133	16																									
029	35	39			134	17																									
030	36	40			135	18																									
031	37	41			136	19																									
032	38	42			137	20																									
033	39	43			138	21																									
034	40	44			139	22																									
035	41	45			140	23																									
036	42	46			141	24																									
037	43	47			142	25	029																								
038	44	48			143	26	030																								
039	44	48			143	26																									
040	45	49			144	27																									
041	46	50			145	28																									
042	47	51			146	29																									
043	48	52			147	30																									

VP # 20 on 1st half - low drive - well
 Skip from VP # 21 - # 28 - well, houses, barns
 VP # 29 on last half - low drive - water line
 E.O.T. # 028 Tape marks
 B.O.T. # 029 # 900 All ones 10 sec.
 VP # 31 on 1st half - low drive
 VP # 32 skip - house
 VP # 33 - low drive - house & barns - on last half
 VP # 34 - low drive - house

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

GEO-252-D

CREW NO. 6834		LINE NO. 2		LEAVE TOWN/CAMP		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER Clear		TRAIL CONDITIONS Dirt roads		DATE MONTH 9 DAY 4 YEAR 85		CLIENT C's Corp		OB P. Ambrose D. Moore		PM Cassidy		
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 1	TR	TR	TR 2				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H. T.	N. UNITS	NO. SUMS	DRIVE						
044	49	53			148	3.1	030	48K							4	8	50%	94						
045	50	54			149	32											50%							
046	51	55			150	33											50%							
047	52	58			151	34											50%							
048	53	57			152	35											50%							
049	54	58			153	36											50%							
050	55	59			154	37											50%							
051	56	60			155	38	030										50%							E.O.T. # 030 Tape marks
052	57	61			156	39	031		wind strip								60db							B.O.T. # 031 #900 All ones 10 sec
053	57	61			156	39											50%							
054	58	62			157	40											50%							
055	59	63			158	41											50%							
056	60	64			159	42											50%							
057	61	65			160	43											50%							
058	62	66			161	44											50%							
059	63	67			162	45											50%							
060	64	68			163	46											50%							
061	65	69			164	47											50%							
062	66	70			165	48											50%							
063	67	71			166	49	031										50%							E.O.T. # 031 Tape marks
064	68	72			167	28	032		wind strip	B.O.T. # 032							60db							New recorder set up at sta #118-#119
																								Vib # 23652 down, lift cylinder came loose,

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

GEO-252-D

CREW NO. 6834		LINE NO. 2		LEAVE TOWN/CAMP 6:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER cloudy		TRAIL CONDITIONS Dirty rd.			DATE MONTH 9 DAY 3 YEAR 85		CLIENT COCORP		OB APPROSE MODE RE		PM CLASSIDY	
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 1	TR	TR	TR 4				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H.T.	N. UNITS	NO. SUMS	DRIVE						
933	Pulse		1	6	SEC		027	48											76		4	MOUNTAIN, LINCOLN CO.		
934/935	Eint		2	6	"																	4 Vib 110' spacing 1st Vib starts 21' past flag		
936/939	DRP		4	6	"																7:20	41.25' MOVE UPS, 32 SEC SWEEP 10-32 Hz SWEEP		
953/954	SUM		2	6	"																	TREQ. 8 SWEEPS 8ms SAMPLE RATE 48 SEC		
960/411	NRJ		2	6	"																	RECORD Alais 31-25 Hz		
932	Similarity		1	32	"									4	1	30%				9:30		Vib # 25874 Down busted guide column		
001	Windstrip		1	48	"	1																4ms sample rate Alais 62.5 Hz		
002	1	5			100	1															8	50%	11:50	LATE START DUE TO CREW LAYING OUT LINE
003	2	6			101	2																50%		
004	3	7			102	3																50%		light RAIN is falling (leakage)
005	4	8			103	4																50%		NOTE: CREW ON STAND BY, Vib # 23652
006	5	9			104	5																50%		Down AIR LEAK ON 4 way valve.
007	6	10			105	6																50%		
008	7	11			106	7																50%		
009	8	12			107	8																50%		
010	9	13			108	9																50%		
011	10	14			109	10	027															50%		E.O.T. #027 TAPE MKTS
012	11	15			110	11	028	Windstrip														60db		B.O.T. #028 #900 10 SEC ALL MOVES
013	11	15			110	11																30%		1st half
Skip	12	16			111	12																Skip		VP #012 SKIPPED DUE TO A BARN
014	13	17			112	13																30%		last half
015	14	18			113	14																50%		
016	15	19			114	15																50%		
017	16	20			115	16																50%		
018	17	21			116	17																50%		
019	18	22			117	18																50%	4:40	



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
 Country MONTANA
 County
 Concession Lincoln
 State MONTANA
 Party Mgr. CLASIDY OB/JO AMBROSE MOORE
 Line No. 2 Date Start of Line 9-3-85
 Sta. Int. 330' Feet Meters Fold 48%
 Spread Dimensions 1-31350
 VP's Increase N E S W
 W → E

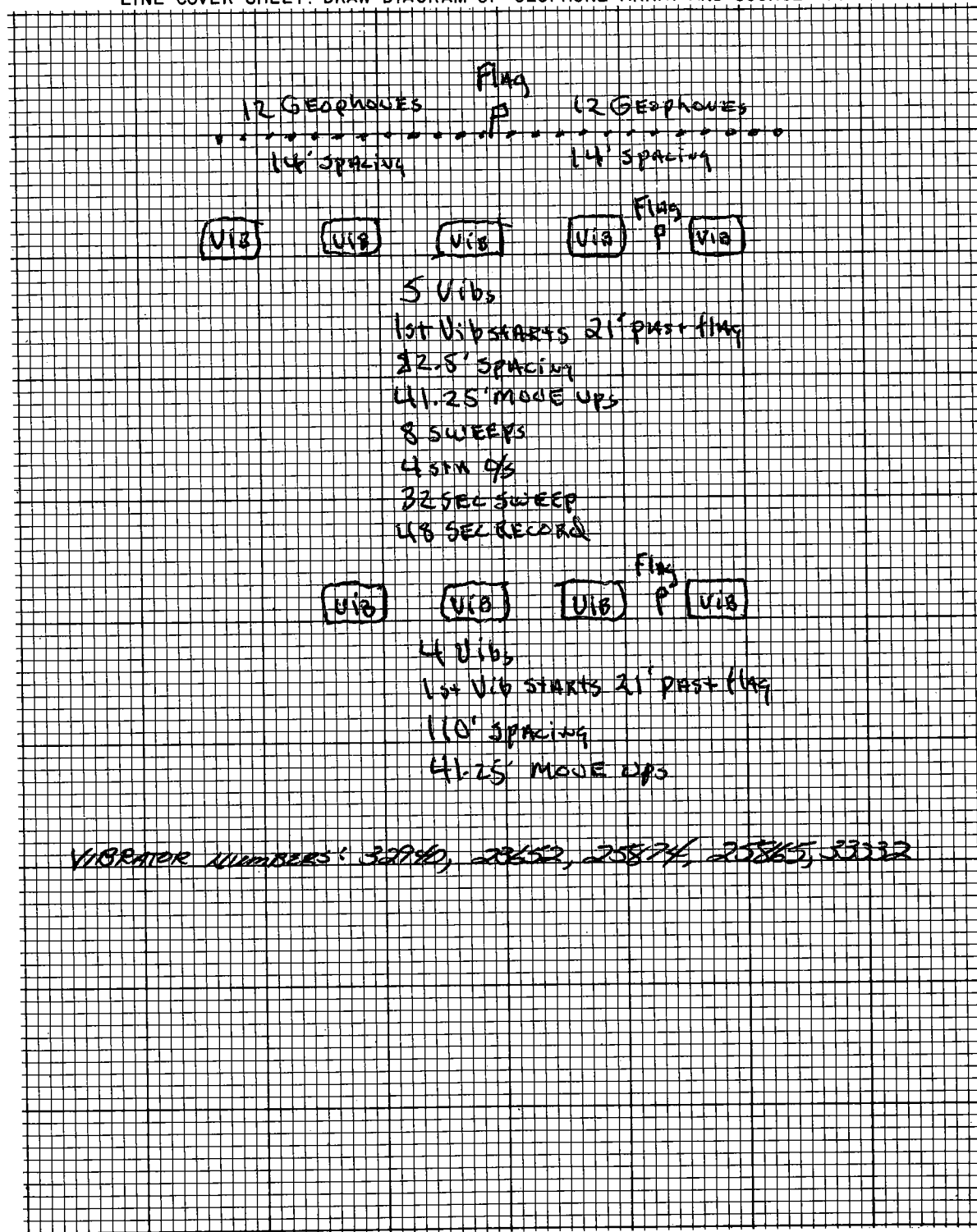
GEOPHONES

Manufacture MQ-1002 Array Length 322
 Frequency 8hz Array Width 10LINE
 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: 46
 Sample Rate: 8ms
 Record Length: 48 SEC
 BPI: 800
 Low-Cut Filter Freq: OUT Slope: OUT
 High-Cut Filter Freq: ALIAS 31.25hz Slope: OUT
 Static Filter In Out
 Notch Filter 60 Hz In Out
 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: V-1100S 5 Vib
 Manufacturer: GEO. FALLING
 Source Control: REV. 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: 10732hz
 Sweep Length: 32 SEC
 Unit Separation: 82.5 Feet Meters
 Unit Moveup: 41.25 Feet Meters
 Array Centered: Across Sta Between Sta

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



REMARKS: Air Gun Delay, etc.

VARI SOURCE USED Yes No Invalid Channels: