















OBSERVER REPORT PETTY-RAY GEOPHYSICAL

CREW NO. 6834		LINE NO. 7		LEAVE TOWN/CAMP 7:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER CLEAR MODERATE DIRT ROAD		TRAIL CONDITIONS		DATE MONTH 8 DAY 15 YEAR 86		CLIENT COCORP		OB FORMAL/MODE		PM BINNS		
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 2	TR 3	TR 96					SIZE	TOP	BOT.	NO CAPS	U.H.T.	N. UNITS	NO. SUMS	DRIVE							
900	ALL ONES			1-6SEC		720	48								5	8		799/800					BOT # 720	
933	PULSE			1-6SEC																			ARRIVE FIELD	
934/935	EINT			2-6SEC																			41.25' MOVE UP FIRST VIB 21' PAST FLAG	
936/939	DRD			4-6SEC																			8 SWEEPS 26 SEC SWEEP LENGTH 12-98 HZ SWEEP REQ	
953/954	SUM			2-6SEC																			42 SEC REC LENGTH 4MS SAMPLE RATE	
960/961	NRJ			2-6SEC																			62.5 HZ ALIAS 9 HZ LOW CUT 18 db / OCT	
932	SIMILARITY			1-26 SEC											1	30%		9:45					SIMS TAKEN WITH CAMERA AT VIBS	
432	WIND TEST STRIP					1																	60db	
433	742	728	739	745	828	1									8	50%		10:00						
434	744	730	741	747	830	3																	50%	
435	746	732	743	749	832	5																	50%	
436	748	734	745	751	834	7																	50%	
437	750	736	747	753	836	9																	50%	
438	752	738	749	755	838	11																	50%	
439	754	740	751	757	840	13																	50%	
440	754	740	751	757	840	13																	FILE # 939 BAP PARITY	
441	756	742	753	759	842	15																	50%	
442	758	744	755	761	844	17																	50%	
443	760	746	757	763	846	19																	50%	
444	762	748	759	765	848	21																	50%	
445	764	750	761	767	850	23																	50%	
446	766	752	763	769	852	25	720																50%	
447	768	754	765	771	854	27	721																50%	
448	770	756	767	773	856	29																	50%	
449	772	758	769	775	858	31																	50%	
450	774	760	771	777	860	33																	50%	
451	776	762	773	779	862	35																	50%	
452	778	764	775	781	864	37																	50%	
453	780	766	777	783	866	39																	50%	
454	782	768	779	785	868	41																	50%	
455	784	770	781	787	870	43																	50%	
456	786	772	783	789	872	45																	50%	
																								NEW RECORDER LOCATION



OBSERVER REPORT PETTY-RAY GEOPHYSICAL

GEO-252-D

CREW NO. 6834		LINE NO. 7		LEAVE TOWN/CAMP 7:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER CLEAR MODERATE		TRAIL CONDITIONS DRY TEAL		DATE MONTH 8 DAY 14 YEAR 86		CLIENT COCORP		OB FREEMAN/MOORE		PM BINNS	
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN PAMPS of "K"	PARITY TAPE	MEMORY MISSED SWEEPS	SHOOTING					SUR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS	
		TR 1	TR 12	TR 13	TR 96						SIZE	TOP	BOT.	NO CAPS	U.H.T.	N. UNITS	NO. SUMS	DRIVE					
900	ALL ONES	1	6	SEC		715	48									5	8		717/718				5 VIBS IN LINE 82.5' SPACING
933	PULSE	1	6	SEC																			41.25' MOVE UP FIRST VIB 21' PAST FLAG
934/935	EINT	2	6	SEC																			8 SWEEPS 26 SEC SWEEP LENGTH 12-40HZ SWEEP FREQ
936/939	DRO	4	6	SEC																			42 SEC REC LENGTH 4MS SAMPLE RATE
953/954	SUM	2	6	SEC																			62.5HZ ALIAS FREQ 9HZ LOW CUT 18db/OCT
960/961	NRJ	2	6	SEC																			6 STA GAP BETWEEN 12 & 13
932	SIMILARITY	1	26	SEC												1	30%		9:30				SIMS TAKEN WITH CAMERA AT VIBS
388	WIND TEST STRIP				1																		60db
389	660	646	658	663	746	1										8	50%		9:45				
390	662	648	659	665	748	3																	
391	664	650	661	667	750	5																	
392	666	652	663	669	752	7	715																EOT # 715 TAPES MARKS
393	668	654	665	671	754	9	716																BOT # 716
394	670	656	667	673	756	11																	
398	672	658	669	675	758	13																	
396	674	660	671	677	760	15																	
397	676	662	673	679	762	17																	
398	678	664	675	681	764	19																	
399	680	666	677	683	766	21																	
400	682	668	679	685	768	23																	
401	684	670	681	687	770	25																	
402	686	672	683	689	772	27																	
403	688	674	685	691	774	29																	
404	690	676	687	693	776	31																	
405	692	678	689	695	778	33																	
406	694	680	691	697	780	35																	
407	696	682	693	699	782	37																	
408	698	684	695	701	784	39	716																EOT # 716 TAPES MARKS
409	700	686	697	703	786	41	717																BOT # 717
410	702	688	699	705	788	43																	
411	704	690	701	707	790	2																	NEW RECORDER LOCATION FILE # 411 BAD PARITY
412	704	690	701	707	790	2	717																EOT # 717 TAPES MARKS

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

CREW NO.	LINE NO.	LEAVE TOWN/CAMP	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER	TRAIL CONDITIONS	DATE MONTH	DAY	YEAR	CLIENT	OB FOREMAN	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 MISSED SWEEPS	SIZE	TOP	BOT.	NO CAPS	U. H. T.	N. UNITS	NO. SUMS	DRIVE					
413	706	692	703	709	792	4	718	48								5	8	50%	760/961			MONTANA BLAINE/PHILLIPS	BOT # 718 BLACK WATCH SCOTCH TAPE
414	708	694	705	711	794	6												50%					
415	710	696	707	713	796	8												50%					
416	712	698	709	715	798	10												50%					
417	714	700	711	712	800	12												50%					
418	716	702	713	719	802	14												50%					
419	718	704	715	721	804	16												50%					
420	720	706	717	723	806	18												50%					
421	722	708	719	725	808	20												50%					
422	724	710	721	727	810	22												50%					
423	726	712	723	729	812	24												50%					
424	728	714	725	731	814	26												50%					
425	730	716	727	733	816	28												50%					
426	732	718	729	735	818	30												50%					
427	734	720	731	737	820	32												50%					
428	WIND TEST STRIP					34	718											60db					EOT # 718
429	736	722	733	739	822	34	719											50%					BOT # 719
430	738	724	735	741	824	36												50%					
431	740	726	737	743	826	38												50%	4100				E.O.T. # 719 TAPE WIKES





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	OB FOREMAN/MOORE	PM BINNS									
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 1	TR 12	TR 13	TR 96			TAPES	MEMORY	SIZE	TOP	BOT.	NO CAPS	U.H.T.	N. UNITS	NO. SUMS	DRIVE					
932	SIMILARITY					1	712	48							5	1	30%	621/622			MONTANA BLAINE	MONTHLY TESTS TO HOUSTON
333	WIND TEST STRIP					1											60db		8:40		5 VIBS IN LINE 82.5' SPACING	
334	564	550	561	567	650	1										8	50%	10:00		41.25' MOVE UP FIRST VIB 21' PAST FLAG		
335	566	552	563	569	652	3											50%			8 SWEEPS 26SEC SWEEP LENGTH 12-48 HZ SWEEP FREQ		
336	568	554	565	571	654	5											50%			62.5 HZ ALIAS 9 HZ LOW CUT 18db/OCT		
337	570	556	567	573	656	7											50%			5 STA GAP BETWEEN 12 & 13		
338	571	558	569	575	658	9											50%					
339	574	560	571	577	660	11											50%					
340	576	562	573	579	662	13											50%					
341	578	564	575	581	664	15											50%					
342	580	566	577	583	666	17											50%					
343	582	568	579	585	668	19											50%					
344	584	570	581	587	670	21											50%				FILE 344 BAD PARITY	
345	584	570	581	587	670	21											50%					
346	586	572	583	589	672	23											50%					
347	588	574	585	591	674	25											50%					
348	590	576	587	593	676	27											50%					
349	592	578	589	595	678	29	712										50%				EOT # 712 TARE MARKS	
350	594	580	591	597	680	31	713										50%				BOT # 713	
351	596	582	593	599	682	33											50%					
352	598	584	595	601	684	35											50%					
353	600	586	597	603	686	37											50%					
354	602	588	599	605	688	39											50%					
355	WIND TEST STRIP					41											60db					
356	604	590	601	607	690	41											50%					
357	605	592	603	609	692	43											50%					
358	608	594	605	611	694	45											50%		4:00			

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	OB FOREMAN/MORE	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 1	TR 12	TR 13	TR 96				TAPE	MEMORY MISSED SWEEPS	SIZE	TOP	BOT.	NO CAPS	U.H.T.	N. UNITS	NO. SUMS	DRIVE						
900	ALL ONES	1-6SEC					709	48								5	8		55%/500				5VIBS	IN LINE 82.5' SPACING
933	PULSE	1-6SEC									ARRIVE	FIELD									8:45		41.25' MOVE UP	FIRST VIB 21' PAST FLAG
934/935	EINT	2-6SEC																					8 SWEEPS	26 SEC SWEEP LENGTH 12-18HZ SWEEP FREQ
936/939	DRD	4-6SEC																						42 SEC REC LENGTH 4MS SAMPLE RATE
953/954	SUM	2-6SEC																						62.5HZ ALIAS FREQ 9HZ LOW CUT 10db/OCT
960/961	NRT	2-6SEC																						5 STA GAP BETWEEN 12 & 13
932	SIMILARITY	1-26SEC									SIMS TAKEN WITH CAMERA AT VIBS					1	30%				9:45			CABLE CROSSING HIGHWAY 60 @ STA # 518
297	WIND TEST STRIP					1																		LATE START DUE TO VIBS DOWN
298	502	488	499	505	588	1																		
299	504	490	501	507	590	3																		
300	506	492	503	509	592	5																		
301	508	494	505	511	594	7																		
302	510	496	507	513	596	9																		
303	512																							
303	514	500	511	517	600	13																		
304	516	502	513	519	602	15																		
305	516	502	513	519	602	15																		
306	518	504	515	521	604	17																		
307	518	504	515	521	604	17	709																	
308	520	506	517	523	606	19	710																	
309	522	508	519	525	608	21																		
310	524	510	521	527	610	23																		
311	526	512	523	529	612	25																		
312	528	514	525	531	614	27																		
313	530	516	527	533	616	29																		
314	532	518	529	535	618	31																		
315	534	520	531	537	620	33																		
316	536	522	533	539	622	35																		
317	536	522	533	539	622	35																		
318	538	524	535	541	624	37																		
319	540	526	537	543	626	39																		
320	540	526	537	543	626	39	710																	

FILE #316 BAD PARITY

FILE 319 BAD PARITY

EOT # 710 TAPE MARKS

BAD TAPE FILE # 306 BAD

STA # 512 SKIPPED DUE TO HOUSE

2ND HALF

FILE # 304 BAD BAD SPOT ON TAPE

2ND HALF HIGHWAY MT #66

EOT #709 TAPE MARKS

BOT #710

### OBSERVER REPORT PETTY-RAY GEOPHYSICAL

CREW NO.	LINE NO.	LEAVE TOWN/CAMP	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER	TRAIL CONDITIONS	DATE MONTH	DAY	YEAR	CLIENT	QB FOREMAN/MAN	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				SIZE	TOP	BOT.	NO CAPS	U. H. T.	N. UNITS	NO. SUMS	DRIVE								
6834	7	7:00													8	11	86	COCOP	FOREMAN/MAN	BINNS				
SKIP	542					711	48								5	8	SKP	590/511			MONTANA / BLAINE	BOT # 711	NEW RECORDER LOCATION	
321	544	530	541	547	630	12										50%								
322	546	532	543	549	632	14										50%								
323	548	534	545	551	634	16										50%								
324	550	536	547	553	636	18										50%					FILE # 324	BAD	PARITY	
325	550	536	547	553	636	18										50%								
326	552	538	549	555	638	20										50%								
327	554	540	551	557	640	22										50%								
328	556	542	553	559	642	24										50%								
329	558	544	555	561	644	26										50%								
330	560	546	557	563	646	28										50%								
331	WIND TEST STRIP					30										60db								
332	562	548	559	565	648	30										50%			4:00					

# OBSERVER REPORT PETTY-RAY GEOPHYSICAL

CREW NO. 6834		LINE NO. 7		LEAVE TOWN/CAMP 7:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER CLEAR MODERATE DIRT TRAIL		TRAIL CONDITIONS		DATE MONTH 8 DAY 8 YEAR 86		CLIENT COCORP		OB FOREMAN/MOORE		PM BINNS		
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN PAMPS of "K"	PARITY TAPE	MEMORY MISSED SWEEPS	SHOOTING					SUR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS		
		TR 1	TR 12	TR 13	TR 96						SIZE	TOP	BOT.	NO CAPS	U.H.T.	N. UNITS	NO. SUMS	DRIVE						
900	ALL ONES	1-6SEC					706	48									5	8			477/478			5 VIBS IN LINE 82.5' SPACING
933	PULSE	1-6SEC																						ARRIVE FIELD
934/935	EINT	2-6SEC																						BSWEEPS 26 SEC SWEEP LENGTH 12-48 HZ SWEEP FREQ
936/939	DRD	4-6SEC																						42 SEC REL LENGTH 4MS SAMPLE RATE
953/954	SUM	2-6SEC																						62.5 HZ ALIAS FREQ 9 HZ LOW CUT 18db/OCT
960/961	NRS	2-6SEC																						5 STA GAP BETWEEN 12 & 13
932	SIMILARITY	1-26 SEC																						SIMS TAKEN WITH CAMERA AT VIBS
254	WIND TEST STRIP																							SIMS
255	420	406	417	423	506	1																		50%
256	422	408	419	425	508	3																		50%
257	424	410	421	427	510	5																		50%
258	426	412	423	429	512	7																		50%
259	428	414	425	431	514	9																		50%
260	430	416	427	433	516	11																		50%
261	432	418	429	435	518	13																		50%
262	434	420	431	437	520	15																		50%
263	436	422	433	439	522	17																		50%
264	438	424	435	441	524	19	706																	50%
265	440	426	437	443	526	21	707																	50%
266	442	428	439	445	528	23																		50%
267	444	430	441	447	530	25																		50%
268	446	432	443	449	532	27																		50%
269	448	434	445	451	534	29																		50%
270	450	436	447	453	536	31																		50%
271	452	438	449	455	538	33																		50%
272	454	440	451	457	540	35																		50%
273	456	442	453	459	542	37																		50%
274	458	444	455	461	544	39																		50%
275	460	446	457	463	546	41																		50%
276	462	448	459	465	548	43																		50%
277	464	450	461	467	550	45																		50%
278	466	452	463	469	552	7																		50%

NEW RECORDER LOCATION

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

CREW NO. 6834		LINE NO. 7	LEAVE TOWN/CAMP	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER CLEAR WARM	TRAIL CONDITIONS DIRT TRAIL	DATE MONTH 8 DAY 8 YEAR 86	CLIENT Cocorp	OB Foreman/Moore	PM Blinn											
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 12	TR 13	TR 96					TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H. T.	N. UNITS					NO. SUMS	DRIVE
279	468	454	465	471	554	9	707	48								5	8	50%	517/518				
280	470	456	467	473	556	11	707											50%					EOT # 707 TAPE MARKS
281	472	458	469	475	558	13	708											50%					Bot # 708
282	474	460	471	477	560	15												50%					
283	476	462	473	479	562	17												50%					
284	478	464	475	481	564	19												50%					
285	480	466	477	483	566	21												50%					
286	482	468	479	485	568	23												50%					
287	484	470	481	487	570	25												50%					
288	486	472	483	489	572	27												50%					
289	WIND	TEST	STRIP			29												60db					
290	488	474	485	491	574	29												50%					
291	490	476	487	493	576	31												50%					
292	492	478	489	495	578	33												50%					
293	494	480	491	497	580	35												50%					
294	496	482	493	499	582	37												50%					
295	498	484	495	501	584	39												50%					
296	500	486	497	503	586	41	708											50%					EOT # 708 TAPE MARKS

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	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 MISSED SWEEPS	SIZE	TOP	BOT.	NO CAPS	U.H.T.	N. UNITS	NO. SUMS	DRIVE	INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS
6834	7	7:00																	MONTANA BLAINE
900	ALL ONES	1-6SEC	239	703	48								5	8		397/398			5 VIBS IN LINE 82.5' SPACING
933	PULSE	1-6SEC															8:45		41.25' MOVE UP FIRST VIB 21' PAST FLAG
934/935	EINT	2-6SEC																	8 SWEEPS 26 SEC SWEEP LENGTH 12-48HZ SWEEP REG
936/939	DRD	4-6SEC																	42 SEC REC LENGTH 4MS SAMPLE RATE
953/954	SUM	2-6SEC																	625HZ ALIAS 9HZ LOW CUT 18db/OCT
960/961	NRT	2-6SEC																	5 STA GAP BETWEEN 12 & 13
932	SIMILARITY	1-26SEC												1	30%		9:30		SIMS TAKEN WITH CAMERA AT VIBS
212	WIND TEST STRIP																		
213	338	324 335 341 424	239											8	50%		9:45		
214	342	328 339 345 428	3																STA 240 SKIPPED DUE TO WALK ONLY <sup>CROSS COUNTRY</sup>
215	344	330 341 347 430	5																2ND HALF FENCE
216	346	332 343 349 432	7																
217	348	334 345 351 434	9	703															EOT # 703 TAPE MARKS
218	350	336 347 353 436	11	704															BOT # 704
219	352	338 349 355 438	13																
220	354	340 351 357 440	15																
221	356	342 353 359 442	17																
222	358	344 355 361 444	19																
223	360	346 357 363 446	21																
224	362	348 359 365 448	23																
225	364	350 361 367 450	25																
226	366	352 363 369 452	27																
227	368	354 365 371 454	29																
228	370	356 367 373 456	31																
229	372	358 369 375 458	33																
230	374	360 371 377 460	35																
231	376	362 373 379 462	37																
232	378	364 375 381 464	39																
233	380	366 377 383 466	41	704															EOT # 704 TAPE MARKS
234	382	368 379 385 468	43	705															BOT # 705
235	384	370 381 387 470	45																
236	386	372 383 389 472	1																NEW RECORDER LOCATION



OBSERVER REPORT PETTY-RAY GEOPHYSICAL

GEO-252-D

CREW NO.	LINE NO.	LEAVE TOWN/CAMP	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER	WINDY TRAIL CONDITIONS	DATE MONTH	DAY	YEAR	CLIENT	OB FOREMAN / MOORE	PM										
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN PAMPS or "K"	PARITY TAPE	MEMORY MISSED SWEEPS	SHOOTING SIZE	TOP	BOT.	NO CAPS	U.H.T.	N. UNITS	SUR. SOURCES NO. SUMS	DRIVE	INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS	
6834	7	7:00						8	6	86	COCORP		BINNS										
900	ALL ONES		1-6SEC			700	48									5	8		313/314			MONTANA BLAINE	5 VIBS IN LINE 82.5' SPACING
933	PULSE		1-6SEC																	830			41.25' MOVE UP FIRST VIB 21' PAST FLAG
934/935	EINT		2-6SEC																				BSWEETS 26SEC SWEEP LENGTH 12-40HZ SWEEP FREQ
936/939	DRD		4-6SEC																				42 SEC REC LENGTH 4MS SAMPLE RATE
953/954	SUM		2-6SEC																				62.5HZ ALIAS FREQ 9HZ LOW CUT 18db/OCT
960/961	NRT		2-6SEC																				5 STA GAP BETWEEN 12 & 13
932	SIMILARITY		1-26 SEC																				SIMS TAKEN WITH CAMERA AT VIBS
169	WIND TEST STRIP				1																		1 30% 60db
170	256	242	253	259	342	1	700																8 50% 9:20
171	258	244	255	261	344	3	701																50%
172	260	246	257	263	346	5																	50%
173	262	248	259	265	348	7																	50%
174	264	250	261	267	350	9																	50%
175	266	252	263	269	352	11																	50%
176	268	254	265	271	354	13																	50%
177	270	256	267	273	356	15																	50%
178	272	258	269	275	358	17																	50%
179	274	260	271	277	360	19																	50%
180	276	262	273	279	362	21																	50%
181	278	264	275	281	364	23																	50%
182	280	266	277	283	366	25																	50%
183	282	268	279	285	368	27																	50%
184	284	270	281	287	370	29																	50%
185	286	272	283	289	372	31																	50%
186	288	274	285	291	374	33	701																50%
187	290	276	287	293	376	35	702																50%
188	292	278	289	295	378	37																	50%
189	294	280	291	297	380	39																	50%
190	296	282	293	299	382	41																	50%
191	298	284	295	301	384	43																	50%
192	300	286	297	303	386	1																	50% 357/358
193	302	288	299	305	388	3																	50%

NEW RECORDED LOCATION

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

GEO-252-D

CREW NO. 6834		LINE NO. 7	LEAVE TOWN/CAMP 7:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME	DOWN TIME	WEATHER Partly cloudy cool	TRAIL CONDITIONS DIRT ROAD	DATE MONTH 8 DAY 6 YEAR 86	CLIENT COCORP	OB FOREMAN/MOORE	PM BINNS													
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN PAMPS or "K"	PARITY TAPE	MEMORY MISSED SWEETS	SHOOTING					SUR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS					
		TR 1	TR 12	TR 13	TR 96						SIZE	TOP	BOT.	NO CAPS	U.H.T.	N. UNITS	NO. SUMS	DRIVE									
194	304	290	301	307	390	5	702	48							5	8	50%	357/358									
195	306	292	303	309	392	7											50%										
196	308	294	305	311	394	9											50%										
197	310	296	307	313	396	11											50%										
198	312	298	309	315	398	13											50%										
199	314	300	311	317	400	15											50%										
200	316	302	313	319	402	17											50%										
201	318	304	315	321	404	19											50%										
202	320	306	317	323	406	21											50%										
203	322	308	319	325	408	23											50%										
204	324	310	321	327	410	25											50%										
205	WIND	TEST STRIP				27											60db										
206	326	312	323	329	412	27											50%									2ND HALF FENCE	
207	328	314	325	331	414	29											50%										
208	330	316	327	333	416	31											50%										
209	332	318	329	335	418	33											50%										
210	334	320	331	337	420	35											50%										
211	336	322	333	339	422	37											50%				3:08						





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	OB FOREMAN/MOORE	PM BINNS					
6834	7	7:00				OVERCAST COOL	GRAVEL ROAD	8	7	86	COCORP							
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN PAMPS or "K"	PARITY TAPE	MEMORY MISSED SWEEPS	SHOOTING SIZE TOP BOT. NO CAPS U.H.T.	SUR. SOURCES N. UNITS NO. SUMS DRIVE			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS
900	ALL ONES	1-6SEC				695	48				5	8		145/150			MONTANA BLAINE	5 VIBS IN LINE 82.5' SPACING
933	PULSE	1-6SEC													8:30			41.25' MOVE UP FIRST VIB 21' PAST FLAG
934/935	EINT	2-6SEC																8 SWEEPS 26 SEC SWEEP LENGTH 12-18HZ SWEEP FREQ
936/939	DRD	4-6SEC																42 SEC REC LENGTH 4MS SAMPLE RATE
953/954	SUM	2-6SEC																62.5HZ ALIAS FREQ 9HZ LOW CUT 18db/OCT
960/961	NRT	2-6SEC																55TA GAP BETWEEN 12 & 13
932	SIMILARITY	1-26 SEC									1	30%		10:00				SIMS TAKEN WITH CAMERA AT VIBS
81	WIND TEST STRIP											60db						STATION #155 + 157 NOISY DUE TO TOWER OF CLEVELAND Mt.
82	92	78	89	95	178	1					8	50%		10:15				
83	94	80	91	97	180	3						50%						<del>STATION</del> STARTED SHAKING EVERY OTHER
84	95	82	93	99	182	5						50%						STATION AS PER CLIENTS REQUEST
85	98	84	95	101	184	7						50%						
86	100	86	97	103	186	9						50%						
87	102	88	99	105	188	11						50%						
88	104	90	101	107	190	13						50%						
89	106	92	103	109	192	15						50%						
90	108	94	105	111	194	17						50%						
91	110	96	107	113	196	19						50%						
92	112	98	109	115	198	21						50%						
93	114	100	111	117	200	23	695					50%						EOT # 695 TAFE MARKS
94	116	102	113	119	202	25	696					50%						BOT # 696
95	118	104	115	121	204	27						50%						
96	120	106	117	123	206	29						50%						
97	122	108	119	125	208	31						50%						
98	124	110	121	127	210	33						50%						
99	126	112	123	129	212	35						50%						
100	128	114	125	131	214	37						50%						
101	130	116	127	133	216	39						50%						FILE 101 NO GOOD BAD SPOT ON TAPE
102	130	116	127	133	216	39						50%						
103	132	118	129	135	218	41						50%						
104	134	120	131	137	220	43						50%						
105	136	122	133	139	222	240						50%						RECORDER HAD TWO PLATS WHILE MOVING TO NEW SETUP

Note: CREW standing by for about 1 hr. RECORDER HAD TWO PLATS WHILE MOVING TO NEW SETUP

NEW RECORDER LOCATION

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

GEO-252-D

CREW NO. 6834		LINE NO. 7	LEAVE TOWN/CAMP 7:00	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER CLEAR No DELAY	TRAIL CONDITIONS GRAVEL ROAD	DATE MONTH 8 DAY 4 YEAR 86	CLIENT COCORP	OB FOREMAN MOORE	PM BURNS										
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					SIZE	TOP	BOT.	NO CAPS	U.H.T.	N. UNITS	NO. SUMS	DRIVE					
106	138	124	135	141	224	2	696	48							5	8	50%	19/195			MONTANA BLAINE	FILE # 106 BAD PARITY
107	138	124	135	141	224	2											50%					
108	140	126	137	143	226	4											50%					
109	142	128	139	145	228	6	696										50%					
110	144	130	141	147	230	8	697										50%					
111	146	132	143	149	232	10											50%					
112	148	134	145	151	234	12											50%					
113	150	136	147	153	236	14											50%					
114	152	138	149	155	238	16											50%					
115	153	139	150	156	239	17											50%					
SKIP	154																SKIP					VP # 154-157 SKIPPED FOR CLEVELAND MT.
SKIP	155																SKIP					
SKIP	156																SKIP					
SKIP	157																SKIP					
116	158	144	155	161	244	22											50%					FILE # 116 BAD PARITY
117	158	144	155	161	244	22											30%					
118	WIND TEST STRIP					22											60%					
119	160	146	157	163	246	24											30%		4:20			

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	JOB	PM											
6834	7	7:00				CLEAR MODERATE	GRAVEL ROAD	8	1	86	COCORP	FOREMAN/MORE	BIVALS											
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P.	DIGITAL	GAIN	PARITY		SHOOTING				SUR. SOURCES			INST.	TIME	STA.	REMARKS			
		TR 1	TR 12	TR 13	TR 96	POSITION	REEL NO.	PAMPS or "K"	TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U.H.T.	N. UNITS	NO. SUMS	DRIVE	SET UP	DAY		OFFSET TO LINE		
900	ALL ONES	1-6 SEC					692	48									5	B		102/103			MONTANA BLAINE	5 VIBS IN LINE 82.5' SPACING
933	PULSE	1-6 SEC																			8:15			41.25' MOVE UP FIRST VIB 21' PAST FLAG
934/935	EINT	2-6 SEC																						BSWEEPS 26 SEC SWEEP LENGTH 12-40HZ SWEEP REQ
936/939	DRD	4-6 SEC																						42 SEC REC LENGTH 4MS SAMPLE RATE
953/954	SUM	2-6 SEC																						62.5HZ AWAIS FREQ 9HZ LOW CUT 18db/OUT
960/961	NRS	2-6 SEC																						5 STA GAP BETWEEN 12 & 13
932	SIMILARITY	1-26 SEC																	30%		900			SIMS TAKEN WITH CAMERA AT VIBS
32	WIND TEST STRIP					1													60db					
33	45	31	42	48	131	1													50%		9:15			
34	46	32	43	49	132	2													50%					
35	47	33	44	50	133	3													50%					
36	48	34	45	51	134	4													50%					
37	49	35	46	52	135	5													50%					
38	50	36	47	53	136	6													50%					
39	51	37	48	54	137	7													50%					
40	52	38	49	55	138	8													50%					
41	53	39	50	56	139	9													50%					
42	54	40	51	57	140	10													50%					
43	55	41	52	58	141	11													50%					
44	56	42	53	59	142	12													50%					
45	57	43	54	60	143	13													50%					
46	58	44	55	61	144	14	692												50%					EOT # 692 TAPE MARKS
47	59	45	56	62	145	15	693												50%					BOT # 693
48	60	46	57	63	146	16													50%					
49	61	47	58	64	147	17													50%					
50	62	48	59	65	148	18													50%					
51	63	49	60	66	149	19													50%					
52	64	50	61	67	150	20													50%					
53	65	51	62	68	151	21													50%					
54	66	52	63	69	152	22													50%					
55	67	53	64	70	153	23													50%					
56	68	54	65	71	154	24													50%					

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

PEO-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	OB FOREMAN/MOOR	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 PAIRED SWEEPS	SIZE	TOP	BOT.	NO CAPS	U.H.T.	N. UNITS	NO. SUMS	DRIVE							
57	69	55	66	72	155	25	693	48							5	8	50%	102/103						
58	70	56	67	73	156	26											50%							
59	71	57	68	74	157	27											50%							
60	72	58	69	75	158	28											50%							
61	73	59	70	76	159	29											50%							
62	74	60	71	77	160	30	693										50%					EOT# 693 TAFE MARKS		
63	75	61	72	78	161	31	694										50%						BOT #694	
64	76	62	73	79	162	32											50%							
65	77	63	74	80	163	33											50%							
66	78	64	75	81	164	34											50%							
67	79	65	76	82	165	35											50%							
68	80	66	77	83	166	36											50%							
69	81	67	78	84	167	37											50%							
70	82	68	79	85	168	38											50%							
71	83	69	80	86	169	39											50%							
72	84	70	81	87	170	40											50%							
73	85	71	82	88	171	41											50%							
74	86	72	83	89	172	42											50%							
75	87	73	84	90	173	43											50%							
76	88	74	85	91	174	44											50%							
77	WIND TEST STRIP					44											6db							
78	89	75	86	92	175	45	694										50%						EOT # 694 TAFE MARKS	
79	90	76	87	93	176	46	695										50%							BOT #695
80	91	77	88	94	177	47											50%				4:00			





Petty-Ray Geophysical



GEO-211-C

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

GENERAL

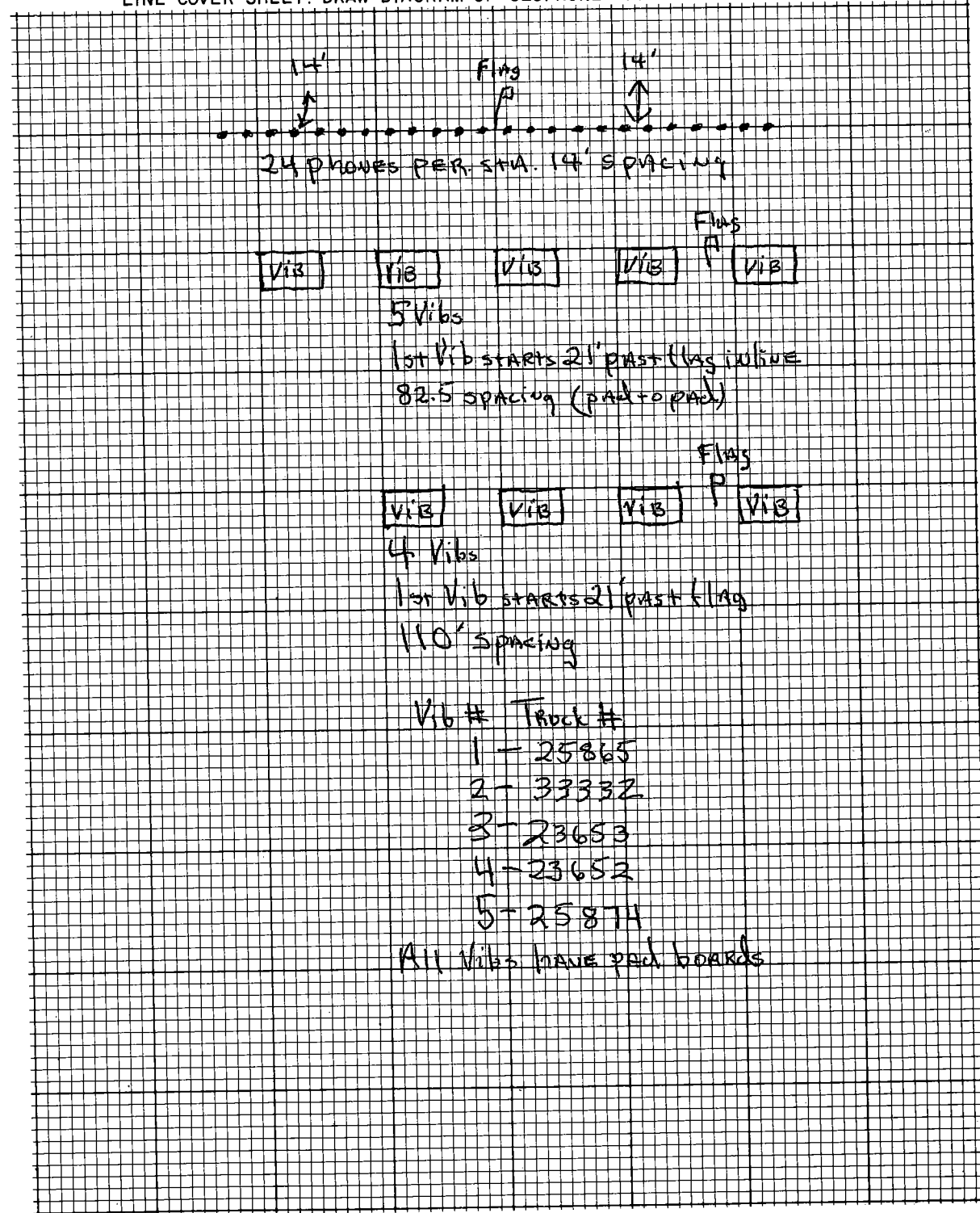
Crew No. 6834 Contract No. 799  
 Client COCORP  
 Area MONTANA  
 Country MONTANA  
 County MONTANA, BLAINE CO.  
 Concession MONTANA, BLAINE CO.  
 State MONTANA  
 Party Mgr. Binns FOREMAN  
 O/B JO MOORE  
 Line No. 7 Date Start 7-30-86  
 of Line  
 Sta. Int. 330' Feet Meters Fold 48%  
 Spread Dimensions 1-12 5 STA 13-96  
 VP's Increase N E S W  
     
 W → E

GEOPHONES

Manufacture MP-100s Array Length 323'  
 Frequency 8hz Array Width inline  
 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 Ser Par Separation 14.34'  
 at Sta   between  
 elements  
 in the array 14'

RECORDING SYSTEM	
Type:	<u>MP2-10</u>
Format:	<u>SEG-B</u>
No. of Channels:	<u>96</u>
Sample Rate:	<u>4ms</u>
Record Length:	<u>42 SEC</u>
BPI:	<u>1600</u>
Low-Cut Filter	Freq: <u>9hz</u> Slope: <u>18 db</u>
High-Cut Filter	Freq: <u>62.5 hz</u> Slope: <u>72 db</u>
Static Filter	In <input checked="" type="checkbox"/> Out <input type="checkbox"/>
Notch Filter	In <input checked="" type="checkbox"/> Out <input type="checkbox"/> <u>60 Hz</u>
UH Ch. On Tape	Wireline <u>N/A</u> Radio <u>N/A</u>
Sweep Ch. On Tape	<u>Aux 2 Galvo 50</u> <u>" 4 " 52</u>
ENERGY SOURCE	
Type:	<u>V-1100' 5 Vibs</u>
Manufacturer:	<u>Failing</u>
Source Control:	<u>RCV-310</u>
Dynamite	Holes/Shotpoint: <u>N/A</u>
	Charge/Shotpoint: <u>N/A</u>
Surface Source	Pattern Length: <u>N/A</u> Feet Meters
	Array Length: <u>489'</u> Feet Meters
	No. of drops, sweeps, etc. in array: <u>8</u>
	Sweep Freq: <u>12 → 48 hz</u>
	Sweep Length: <u>26 SEC</u>
Unit Separation: <u>82.5'</u> Feet Meters	
Unit Moveup: <u>41.25'</u> Feet Meters	
Array Centered: <input checked="" type="checkbox"/> Across Sta <input type="checkbox"/> 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: