

## OBSERVER REPORT PETTY-RAY GEOPHYSICAL

PAGE 1 OF 1 PAGES

CREW NO. 1834		LINE NO. N.M. 5	LEAVE TOWN/CAMP 7:00	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					PAMPS or "K"	TAPE	MEMORY	SIZE	TOP	BOT.				
001	Windstrip	1-61	sec	22	170	48K	missed	4ms sample rate	Alias 625 Hz	60db	67/68							N. Mexico, San Juan Co.	
002	13	17		112	22			Late start, writing on N. Mexico	5	8	30%			2:30				B.O.T #170 #900 All ones 10 sec	
003	14	18		113	23			travel permit.			30%							5 subs 100 spacing 10' vib starts 36' post flag	
004	15	19		114	24						30%							4125' move ups 8 sweeps 12-748 Hz sweep freq	
005	16	20		115	25						30%			on 1st half				32 sec sweep 61 sec rec 8ms sample rate	
006	17	21		116	26						30%			on last half				Alias 625 Hz	
007	18	22		117	27						30%							Note: No tests on tape ran monthly's this morning. Heavy traffic on line very noisy.	
008	19	23		118	28						30%							← Vib on shoulder of paved road in low	
009	24	28		123	33						30%							← drive due to houses.	
010	25	29		124	34						30%							Skip from VP #19-#23 due to houses	
011	26	30		125	35	170			E.O.T #170 Tape marks		30%							VP #24 on last half vib on paved road.	
012	27	31		126	36	171	Wind strip				60db							B.O.T #171 #900 All ones 10 sec	
013	28	32		127	37						30%			4:30					

## OBSERVER REPORT PETTY-RAY GEOPHYSICAL

PAGE 1 OF 2 PAGES

GEO-282-D		CREW NO.	LINE NO.	LEAVE TOWN/CAMP	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER	TITLE CONDITIONS	DATE MONTH	DAY	YEAR	CLIENT	OB	PM	REMARKS
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	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR
933	Pulse	16		SEC	171	48K				79/80	4		N. Mexico San Juan Co.			
934	E Int	26		SEC												
936	Ded	46		SEC						8:10			Arrived field			
937	Sum	26		SEC												
960	NRJ	24		SEC												
932	Similarity	1-32		SEC												
932	Similarity	1-32		SEC						9:45						
014	Wind strip	-52		SEC	26			4ms sample rate								
015	29	33		128	26			on last half								
016	30	34		129	27											
017	31	35		130	28			2								
018	32	36		131	29											
018	35	39		134	32			1								
019	36	40		135	33	171										
020	37	41		136	34	172		wind strip								
021	37	41		136	34											
022	38	42		137	35											
023	39	43		138	36											
024	40	44		139	37			2								
025	41	45		140	38											
026	42	46		141	39											
027	43	47		142	40											
028	44	48		143	41			on 1st half								
029	45	49		144	42			on last half								
030	46	50		145	43			1								
031	47	51		146	44											
032	48	52		147	45	172		on last half								
033	49	53		148	46	173		wind strip								
034	49	53		148	46											
035	50	54		149	47			1								
036	51	55		150	48											
037	52	56		151	49											

41.25' move ups 8 sweeps 12 → 48 Hz sweep freq  
 32 sec sweep 8ms sample rate Alias 62.5Hz  
 \*Note: Changed from 64 sec rec to a 52 sec record\*

Vib on shoulder of paved road in low drive

late start due to sims & moving recorder back  
 vibs unable to pick up tones  
 Note: Heavy traffic very noisy

VP# 32-#34 Skipped due to houses

VP# 35 on last half " " "

VP# 36 vibs on paved road

B.O.T. #172 #900 All ones 10 sec  
 vibs on paved road

" " " "

" " " "

" " " "

" " " "

" " " "

" " " "

VP# 44, 4 sweeps only - building

Vibs back on shoulder of paved road

" " " "

Vibs on paved road

B.O.T. #173 #900 All ones 10 sec





# OBSERVER REPORT PETTY-RAY GEOPHYSICAL

GEO-252-D  
 CREW NO. 2834 LINE NO. 5 LEAVE TOWN/CAMP \_\_\_\_\_ ARRIVE TOWN/CAMP \_\_\_\_\_ TOTAL TR. TIME \_\_\_\_\_ DOWN TIME \_\_\_\_\_ WEATHER Clear TRAIL CONDITIONS Under a clear sky DATE MONTH 12 DAY 4 YEAR 80 CLIENT Coorp JOB Amrose phore PM McLellan

FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN	PARITY	SHOOTING					SUB. 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
085	96	100				195	26	177	8K								5	8	50%	1467	4		
086	97	101				196	27												50%				
087	98	102				197	28												50%				
088	99	103				198	29												50%				
089	100	104				199	30												50%				
090	101	105				200	31												50%				
091	102	106				201	32												50%				
092	103	107				202	33												50%				
093	104	108				203	34												50%				
094	105	109				204	35	177											50%				E.O.T. # 177 Tape marks
095	106	110				205	36	178	wind strip										50%				Wind blast B.O.T. # 178 *900 All ones 10sec
096	106	110				205	36												50%				
097	107	111				206	37												50%				
098	108	112				207	38												50%				
099	109	113				208	39												50%		4:45		



# OBSERVER REPORT PETTY+RAY GEOPHYSICAL

CREW NO. 6834		LINE NO. 5	LEAVE TOWN/CAMP	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER 11807	TRAIL CONDITIONS shoulder on paved road	DATE MONTH 12 DAY 5 YEAR 85	CLIENT Cocorp	OB Ambrose	PM McClellan								
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C.D.P. POSITION	DIGITAL REEL NO.	GAIN	PARITY			SHOOTING					INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS
		TR 1	TR	TR	TR 40				PAMPS OF "K"	TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U.H.T.				
124	134	138			223	27	180	48K							5	8	50%	182-789	4	N. Mexico San Juan Co. VP# 134 on last half
125	135	139			234	28											50%			
126	136	140			235	29											50%			
127	137	141			236	36											50%			
128	138	142			237	31											50%			
129	139	143			238	32											50%			VP# 139 on 1st half, low drive - buildings & houses
Skip	140	144			239	33											50%			VP# 140-142 skip due to wells
130	143	147			242	36	180										30%			VP# 143 on last half low drive - wells
131	144	148			243	37	181										60db			E.O.T.# 180 Tape marks
132	144	148			243	37											30%			Wind strip
133	145	149			244	38											50%			
134	146	150			245	39											50%			
135	147	151			246	40											50%			
136	148	152			247	41											50%			
137	149	153			248	42											50%			VP# 149 on 1st half, sta# 248 open due to paved driveway.
138	150	154			249	43											50%			on last half
139	151	155			250	44											50%			
140	152	156			251	45											50%			
141	153	157			252	46											50%			
142	154	158			253	47											50%			
143	155	159			254	48	181										50%			E.O.T.# 181 Tape marks
144	156	160			255	49	182										60db			B.O.T.# 182 #900 All oncs 10 see
145	156	160			255	49											50%			Wind strip
146	157	161			256	50											50%		4:45	"2"



# 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	TRAIL CONDITIONS	DATE MONTH 12 DAY 6 YEAR 85	CLIENT	OB. NAME	PM							
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS. %)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN PAMPS or "K"	PARITY TAPE	MEMORY	SIZE	SHOOTING				INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS
		TR	TR	TR	TR							TOP	BOT.	NO CAPS	U. H. T.				
173	181	185			280	35	184	48K						5	8	50%	333	4	N. Mexico San Juan Co. Sta #228 open due to bridge sta #248 open due to paved drive way
174	182	186			281	36										50%			
175	183	187			282	37										50%			
176	184	188			283	38										50%			
177	185	189			284	39										50%			
178	186	190			285	30										50%			
179	187	191			286	31	184									50%			E.O.T. # 184 Tape marks
180	188	192			287	32	175									60%			B.O.T. # 185 #500 All ones 10 sec.
181	188	192			287	32										50%			
182	189	193			288	33										50%			
183	190	194			287	34										50%			
184	191	195			290	35										50%			
185	192	196			291	36										50%			on last half sta #291 open, looking for them
186	193	197			292	37										50%			(Sta # 292 open
187	194	198			293	38										50%			(Sta # 293 open
188	195	199			294	39										50%			on last half
189	196	200			295	40										50%			Vibs on paved road - low drive
190	197	201			296	41										50%			Sta #291-#293 fixed.
191	198	202			297	42										50%			
192	199	203			298	43	185									50%			E.O.T. # 185 Tape marks
193	200	204			299	44	186									60%			Vibs back on shoulder of paved road - high drive
194	200	204			299	44										50%			
195	201	205			300	45										50%			
196	202	206			301	46										50%			
197	203	207			302	47										50%			
198	204	208			303	48										50%			
199	205	209			304	49										50%			

5:00



# OBSERVER REPORT PETTY-RAY GEOPHYSICAL

PAGE 2 OF 2 PAGES

CREW NO. 6651		LINE NO. 5		LEAVE TOWN/CAMP		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER clear shoulder		TRAIL CONDITIONS		DATE MONTH 12 DAY 7 YEAR 75		CLIENT Cocop		OB L. Ambrase		PM McMillan	
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				BAMPS or "K"	TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H. T.	N. UNITS	NO. SUMS					DRIVE
226	229	233			26	28	26	188	48K							4	8	50%	227	4			N. Mexico San Juan Co.
227	230	234			26	29	27											50%	228	4			Sta #248 open - paved driveway
228	231	235			26	30	28	188								5		50%	229				heavy traffic noise
229	232	236			26	31	29	189		wind strip								60%	230				lib #25265 fixed E.C.T. #186 Tape marks
230	232	236			26	32	29											50%	231				B.O.T. #189 #900 till once 16 sec
231	233	237			26	33	30											50%	232				
232	234	238			26	33	31											50%	233				







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	PARITY TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H. T.	N. UNITS	NO. SUMS	DRIVE	INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS
290	288	292			387	25	194	48	skip on start							5	2	50%	35/40	4		
291	289	293			388	26			"3									50%				
skip	290	294			389	27												skip				VP # 290 skip - on last half
292	291	295			390	28												50%				
293	292	296			391	29												50%				
294	293	297			392	30			"2									30%				on 1st half - low drive
skip	294	298			393	31												skip				skip # 294 - # 297 - houses & store on last half - low drive
295	296	302			397	35												30%				
296	299	303			398	36												30%				
297	300	304			399	37	194											30%				E.O.T. # 194 Tape marks
298	301	305			400	38	195		wind skip									60%				B.O.T. # 195 # 200 All ones 10 sec on last half
299	301	305			400	38												30%				on last half
300	302	306			401	39												30%				on last half
301	303	307			402	40												30%				
302	304	308			403	41			1									30%				
303	305	309			404	42			"2									50%				High drive
304	306	310			405	43			2									50%				
305	307	311			406	44												50%				
306	308	312			407	45			"2									50%				
307	309	313			408	46												50%				
308	310	314			409	47			1									50%				
309	311	315			410	48			"3									50%				
310	312	316			411	49	195		1									50%		4:45		E.O.T. # 195 Tape marks on last half



OBSERVER REPORT PETTY-RAY GEOPHYSICAL

CREW NO. 282-D		LINE NO. 5	LEAVE TOWN/CAMP	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER	TRAIL CONDITIONS	DATE	MONTH	DAY	YEAR	CLIENT	OB	PM	REMARKS
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS) TR TR TR	C. D. P. POSITION	DIGITAL REEL NO.	GAIN PAMPS or "K"	PARITY TAPE MEMORY	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				
336	336	340	435 24	198	48k		* Wind blast	5 8	50%	388	4	N. Mexico San Juan Co. Arizona, Apache Co.				
337	337	341	436 25						50%			Sta #421 open due to paved inspection sta				
338	338	342	437 26						50%			Heavy traffic - noisy				
339	339	343	438 27						50%			Hwy. Intersection sta # 417 - 418 - noisy				
340	340	344	439 28						50%							
341	341	345	440 29						50%			on last half				
342	342	346	441 30						50%							
343	343	347	442 31			"2			50%							
344	344	348	443 32						50%							
345	345	349	444 33			"2			50%							
346	346	350	445 34	198					50%			E.O.T. # 198 Tape marks				
347	347	351	446 35	199		wind strip			60db			B.O.T. # 199 # 900 All ones 10 sec				
348	347	351	446 35			"2			50%			Heavy traffic - noisy				
349	348	352	447 36						50%							
350	349	353	448 37						50%			on last half				
351	350	354	449 38						30%			low drive - houses				
352	351	355	450 39				* wind blast		30%			on last half 1st up in Arizona, Apache Co.				
353	352	356	451 40			'1			30%							
354	353	357	452 41						50%			high drive				
355	354	358	453 42			'1			50%							
356	355	359	454 43						50%							
357	356	360	455 44			"3			50%			on 1st half				
358	357	361	456 45						30%			vibs on paved road - low drive				
359	358	362	457 46	199					30%			E.O.T. # 199 Tape marks				
360	359	363	458 47	200		wind strip			60db			B.O.T. # 200 # 900 All ones 10 sec				
361	359	363	458 47						30%			Heavy traffic - very noisy				
362	360	364	459 48			1			30%							
363	361	365	460 49						30%			* Changed sweep freq to 8-32hz, 32 sec *				
364	361	365	460 49			4ms sample rate	Alias 62.5 Hz	wind strip	60db	4.45		sweep Alias 31.25hz as requested by Larry Brown.				

## OBSERVER REPORT PETTY-RAY GEOPHYSICAL

PAGE 1 OF 2 PAGES

CREW NO. 6834		LINE NO. 5		LEAVE TOWN/CAMP 6:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER CLEAR+COOL		TRAIL CONDITIONS PAVED Rd.		DATE MONTH 12 DAY 14 YEAR 85		CLIENT COCORP		OP. MOORE		PM McClellan	
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		200	48										4:33		4	U.M. SAN JUAN CO. AZ. Apache Co.		
934/935	First		2	6	"																41.25' MOVE up 8 SWEEPS 8 3/4 SEC SWEEP TREE.		
936/939	DRD		4	6	"										Arrive field			7:30			32 SEC SWEEP 52 SEC RECORD length 8 ms SAM- PLE RATE Alais 31.25 Hz		
933/934	SUM		2	6	"																Vibs will be starting on a PAVED Rd		
949/961	NRS		2	6	"																Traffic noise is out to bad this morning		
932	Similarity	1	33		"										5	1	30%		8:30		STA # 421 OPEN DUE TO WEIGH STA.		
365	Windstrip	1	52		"	5															4ms SAMPLE RATE Alais 62.5 Hz		
366	362	366			461	5														8:55		Cable crossing Hiway @ 417+418 (NOISE)	
367	363	367			462	6																LARRY BROWN CLIENT REP in field.	
368	364	368			463	7	200															E.O.T. # 200 TAPE MKTS.	
369	365	369			464	8	201	Windstrip														B.O.T. # 201 # 900 10 SEC ALL OVES	
370	365	369			464	8																	
371	366	370			465	9																	
372	367	371			466	10																HEAVY Traffic NOISE !!	
373	368	372			467	11																	
374	369	373			468	12																	
375	370	374			469	13																Vibs back on shoulder of a PAVED Rd	
376	371	375			470	14																	
377	372	376			471	15																	
378	373	377			472	16																	
379	374	378			473	17																	
380	375	379			474	18																	
381	376	380			475	19	201																
382	377	381			476	20	202	Windstrip														E.O.T. # 201 TAPE MKTS.	
383	377	381			476	20																B.O.T. # 202 # 900 10 SEC ALL OVES	
384	378	382			477	21																Heavy traffic (NOISE)	
385	379	383			478	22																	
386	379	383			478	22																	
387	380	384			479	23																	
388	380	384			479	23																	
389	381	385			480	24																	
390	381	385			480	24																	

379 382  
all repeated





OBSERVER REPORT PETTY-RAY GEOPHYSICAL

CREW NO. 6834		LINE NO. 5		LEAVE TOWN/CAMP 6:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER CLEAR/cool		TRAIL CONDITIONS Vibs. 2-4		DATE MONTH 12 DAY 15 YEAR 85		CLIENT COCORP		JOB MOORE		PM McLELLAN	
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)			C. D. P. POSITION	DIGITAL REEL NO.	GAIN PAIRS or K	PARITY TAPE	MEMORY REELS	SIZE	TOP	SHOOTING			SUR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS		
		TR 1	TR	TR 96								BOT.	NO CAPS	U. H.T.	N. UNITS	NO. SUMS	DRIVE						
Skip	436	440			535	34	206	48						5	8	Skip	475	4	H2. Apache co. Traktic (noise)				
Skip	437	441			536	35										Skip			VR# 436+437 Skipped due to hours				
438	438	442			537	36										30%							
439	439	443			538	37										30%							1st. half
Skip	440	444			539	38										Skip							VR# 440+thru 443 Skipped due to hours
440	444	448			543	42	206									30%							1st half E.O.T. # 206 Tape mks
441	445	449			544	43	207	Woodstrip								60%							B.O.T. # 207 #900 10 sec allows
442	445	449			544	43										30%							
443	446	450			545	44										30%							
444	448	451			546	45										30%							
445	440	452			547	46										30%							
446	449	453			548	47										30%							
447	450	454			549	48										30%							
448	451	455			550	49										30%							
449	452	456			551	36										30%	492						Moved Recorder up to 492+493
450	453	457			552	37										30%							
451	454	458			553	38										30%							
452	455	459			554	39										30%							
453	456	460			555	40	207									30%							E.O.T. # 207 TAPE MKTS.
454	457	461			556	41	208	Woodstrip								60%							B.O.T. 208 #900 10 SEC ALLOWES
455	457	461			556	41										30%							
456	459	462			557	42										30%							
457	459	463			558	43										30%							
458	460	464			559	44										30%		4:30					



**OBSERVER REPORT PETTY-RAY GEOPHYSICAL**

GEO-252-D

PAGE 2 OF 2 PAGES

CREW NO.	LINE NO.	LEAVE TOWN/CAMP	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER	TRAIL CONDITIONS	DATE MONTH	DAY	YEAR	CLIENT	OB. NAME	TIME	PM	REMARKS							
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN	PARITY		SHOOTING				SVR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS	
		TR 1	TR	TR	TR				PAMPS or "K"	TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U.H.T.	N. UNITS					NO. SUMS
485	484	488			583	24	210	48k							4	8	30%	536	4	Arizona, Apache Co.	Med. Traffic Noise	
486	485	489			584	25											30%					
487	486	490			585	26				"2							30%					
488	487	491			586	27				"1					5		30%					
489	488	492			587	28	210			"3		E.O.T. #	210	Tape marks			30%					1.5" # 33652 fixed, 105 yds, 100' spacing 12' inch starts 56' west of leg. B.O.T. # 211 # 900 All ones 70 sec
490	489	493			588	29	211			wind strip							30%					
491	489	493			588	29				"1							30%					
492	490	494			589	30				"1							30%					Heavy traffic noise
493	491	495			590	31											30%					
494	492	496			591	32				"4							30%					
495	493	497			592	33				"1							30%					
496	494	498			593	34											30%					
497	495	499			594	35											30%					

OBSEVER REPORT PETTY-RAY GEOPHYSICAL

GEO-252-D

PAGE 1 OF 2 PAGES

CREW NO.	LINE NO.	LEAVE TOWN/CAMP	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER	TRAIL CONDITIONS	DATE MONTH	CLIENT	OB	PM	
6234	5	6:00						12 DAY 17 YEAR 85	Cocorp	Ambrose	McClellan	
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)	C. D. P.	DIGITAL REEL NO.	GAIN	PARITY	SHOOTING	SUR. SOURCES	INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS
933	Pldsc	16	sec	211	48k	missed			571		4	Arizona Apache Co.
934-935	E Int	26	sec									5 sub 100 spacing 15' sub starts 56' post flag
936-939	Dscd	46	sec									41.25' move up
953-954	Sum	26	sec									32 sec sweep 5' sub starts 8ms sample rate
960-961	NRJ	26	sec									Alias 31.25hz
932	Simulib	1-33	sec									
			sec									4ms sample rate Alias 62.5hz
497	496	500	595									on 15' half - low drive
499	498	502	597	3	211							on last half - heavy traffic noise
500	499	503	598	4								on last half - heavy traffic noise
501	499	503	598	4								on last half - heavy traffic noise
502	500	504	599	5								on last half - heavy traffic noise
503	501	505	600	6								on last half - heavy traffic noise
504	502	506	601	7								on last half - heavy traffic noise
505	503	507	602	8								on last half - heavy traffic noise
506	504	508	603	9								on last half - heavy traffic noise
507	505	509	604	10								on last half - heavy traffic noise
508	506	510	605	11								on last half - heavy traffic noise
508	507	511	606	12								on last half - heavy traffic noise
509	508	512	607	13								on last half - heavy traffic noise
510	509	513	608	14								on last half - heavy traffic noise
511	510	514	609	15								on last half - heavy traffic noise
512	511	515	610	16	212							on last half - heavy traffic noise
513	512	516	611	17	213	wind strip						on last half - heavy traffic noise
514	512	516	611	17								on last half - heavy traffic noise
515	513	517	612	18								on last half - heavy traffic noise
516	514	518	613	19								on last half - heavy traffic noise
517	515	519	614	20								on last half - heavy traffic noise
518	516	520	615	21								on last half - heavy traffic noise
519	517	521	616	22								on last half - heavy traffic noise
520	518	522	617	23								on last half - heavy traffic noise
521	519	523	618	24								on last half - heavy traffic noise

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

GEO-252-D

CREW NO.	LINE NO.	LEAVE TOWN/CAMP	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	OTHER	TRAIL	CONDITIONS	DATE	MONTH	DAY	YEAR	CLIENT	OB	PM	REMARKS						
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		
		TR	TR	TR	TR			TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U.H.T.	N. UNITS	NO. SUMS	DRIVE					
522	520	524			609	25	213	48k							5	8	30%	571	4	Arizona Apache Co.	Heavy traffic noise	
523	521	525			620	26											30%					
524	522	526			621	27											30%					
525	523	527			622	28	213		1					E.O.T. # 213	Tape marks		50%				Wibs on shoulder of paved road - high drive	
<del>526</del>	<del>524</del>	<del>528</del>			623	29	214		wind strip								60db					B.O.T. # 214 # 900 All ones 10 sec
527	524	528			623	29											50%					
528	525	529			624	30			1								50%					
529	526	530			625	31			1								50%					
530	527	531			626	32			1								50%					
531	528	532			627	33											50%					
532	529	533			628	34											50%					
533	530	534			629	35			1								50%					
534	531	535			630	36											50%					
535	532	536			631	37											50%					Wibs on paved road - drive low
536	533	537			632	38											50%					
537	534	538			633	39											50%					
538	535	539			634	40	214							E.O.T. # 214	Tape marks		50%					Wibs on shoulder of paved road - high drive
<del>539</del>	<del>536</del>	<del>540</del>			635	41	215		wind strip								60db					B.O.T. # 215 # 900 All ones 10 sec
540	536	540			635	41											50%					Heavy traffic noise
541	537	541			636	42											50%					
542	538	542			637	43											50%					
543	539	543			638	44			1								50%					
544	540	544			639	45											50%					
545	541	545			640	46											50%					
546	542	546			641	47											50%					
547	543	547			642	48			1								50%					
548	544	548			643	49			1								50%					
549	545	549			644	50											50%					
550	546	550			645	51	215										50%	4:30				E.O.T. # 215 Tape marks



## OBSERVER REPORT PETTY-RAY GEOPHYSICAL

PAGE 2 OF 2 PAGES

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	REMARKS								
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN PAMPS or "K"	PARITY TAPE	MEMORY	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	
577	570	574			669	23	218	48k								5	8	50%	623		4		
578	571	575			670	24												50%					
579	572	576			671	25												50%					
580	573	577			672	26												50%					
581	574	578			673	27												50%					
582	575	579			674	28												50%					
583	576	580			675	29												50%					
584	577	581			676	30												50%					
585	578	582			677	31												50%					
586	579	583			678	32	218											50%					E.O.T. #218 Tape marks
587	580	584			679	33	219		wind strip									60%					B.G.T. #219 #900 Allans 16/sec
588	580	584			679	33												50%					Light traffic noise
589	581	585			680	34												50%					
590	582	586			681	35												50%					
591	583	587			682	36												50%					
592	584	588			683	37												50%					on last half
593	585	589			684	38												50%					
594	586	590			685	39												50%					
595	587	591			686	40												50%					
596	588	592			687	41												50%					
597	589	593			688	42												50%					
598	590	594			689	43												50%					
599	591	595			690	44	219											50%					
600	592	596			691	45	220		wind strip									60%					
601	593	596			691	45												50%					
602	593	597			692	46												50%					
603	594	598			693	47												50%					
604	595	599			694	48												50%					
605	596	600			695	49												50%					
606	597	601			696	50												50%					
607	598	602			697	51												50%					



### OBSERVER REPORT PETTY-RAY GEOPHYSICAL

CREW NO. <u>6234</u>		LINE NO. <u>5</u>	LEAVE TOWN/CAMP	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER <u>Clear</u>	TRAIL CONDITIONS <u>shovel at road</u>	DATE MONTH <u>12</u> DAY <u>19</u> YEAR <u>75</u>	CLIENT <u>Coary</u>	OB <u>D Moore</u>	PM <u>McJellan</u>	PAGE <u>2</u> OF <u>2</u> PAGES								
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				
634	622	626			721	24	222	48K						4	8	50%	624	4	Arizona Apache Co.		
635	623	627			722	25	222									50%			Vibron shovels of gravel road - high drive		
636	624	628			723	26	223									60db			E.O.T. # 222 Tape marks		
637	624	628			723	26	223									50%			B.O.T. # 223 #900 All ones 10 sec.		
638	625	629			724	27										50%			Wind stop		
639	626	630			725	28										50%					
640	627	631			726	29										50%					
641	628	632			727	30										50%					
642	629	633			728	31										50%					
643	630	634			729	32										50%					
644	631	635			730	33										50%					
645	632	636			731	34										50%					
646	633	637			732	35										50%					
647	634	638			733	36										50%					
648	635	639			734	37	223									50%					
649	636	640			735	38	224									60db			E.O.T. # 223 Tape marks		
650	636	640			735	38										50%			B.O.T. # 224 #900 All ones 10 sec		
651	637	641			736	39										50%			Heavy traffic noise		
652	638	642			737	40										50%					
653	639	643			738	41										50%					
654	640	644			739	42										50%					
655	641	645			740	43										50%					
656	642	646			741	44										50%					
657	643	647			742	45										50%					
658	644	648			743	46										50%					
659	645	649			744	47										50%					
660	646	650			745	48										50%					
661	647	651			746	49	224									50%	4:20		E.O.T. # 224 Tape marks		



## OBSERVER REPORT PETTY-RAY GEOPHYSICAL

PAGE 2 OF 3 PAGES

CREW NO. 6831		LINE NO. 5		LEAVE TOWN/CAMP		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER		TRAIL CONDITIONS		DATE		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			RAMPS or "K"	TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U.H.T.	N. UNITS	NO. SUMS	DRIVE									
687	682	686			781	35	227	4R	swaps missed							4	8	50%	723	4	Arizona Apache Co. Traffic noise - heavy					
688	683	687			782	36												50%								
689	684	688			783	37												50%								
690	685	689			784	38												50%								
691	686	690			785	39												50%								
692	687	691			786	40												50%								
Skip	688	692			787	41												50%								
693	696	700			795	21												50%								
694	697	701			796	22												50%								
695	698	702			797	23												50%								
696	699	703			798	24												50%								
697	700	704			799	25	227											50%								
698	701	705			800	26	228											50%								
699	702	706			801	27			wind strip									60%								
700	702	706			801	27												50%								
701	703	707			802	28												50%								
702	704	708			803	29												50%								
703	705	709			804	30												50%								
Skip	706	710			805	31												50%								
704	708	712			807	33												50%								
705	709	713			808	34												50%								
706	710	714			809	35												50%								
707	711	715			810	36												50%								
708	712	716			811	37												50%								
709	713	717			812	38												50%								
710	714	718			813	39	228											50%								
711	715	719			814	40	229											50%								
712	716	720			815	41			wind strip									60%								
713	716	720			815	41												50%								
714	717	721			816	42												50%								
715	718	722			817	43												50%								
716	719	723			818	44												50%								





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
6874	5					Clear	should be good	12	21	85	Coamp	R Ambrose	McLellan
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS)	C. D. P.	DIGITAL REEL NO.	GAIN	PARITY	SHOOTING	SUR. SOURCES	INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS	
744	753	757	852	32	231	48k		4 8 50%	797		4	Arizona Apache Co.	
745	754	758	853	33	231			50%				E.O.T. # 231 Tape marks	
746	755	759	854	34	232			50%				B.O.T. # 232	
747	756	760	855	35			wind strip	50%				Traffic noise - heavy	
748	756	760	855	35				50%					
749	757	761	856	36				50%					
750	758	762	857	37				50%					
751	759	763	858	38				50%					
752	760	764	859	39				50%					
753	761	765	860	40				50%					
754	762	766	861	41				50%				on 1st half	
skip	763	767	862	42				50%				VP # 763-764, skip close to sensors & drainage pipes, on last half	
755	765	769	864	44				50%					
756	766	770	865	45				50%					
757	767	771	866	46				50%					
758	768	772	867	47	232			50%				E.O.T. # 232 Tape marks	
759	769	773	868	48	233			50%				B.O.T. # 233	
760	770	774	869	49	233			50%		5.10		E.O.T. # 233 Tape marks Sta. # 869 VP # 770	
												E.O.L. # 5 N. Mexico	

NMG-M

Petty-Ray Geophysical



0-211-C

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

GENERAL

Crew No. 6834 Contract No. \_\_\_\_\_

Client CoCorp

Area N Mexico / Arizona

County San Juan, Apache

State New Mexico / Arizona

Party Mgr. McClellan <sup>Rambos</sup> OBNO <sup>Bancroft</sup>

Line No. 5 Date Start of Line 12-2-85

Sta. Int. 330 <sup>Feet</sup> Meters Fold 4896

Spread Dimensions 1-31356'

VP's Increase N E S W

GEOPHONES

Manufacture MD-100's Array Length 322'

Frequency 7-hz Array Width inline

No. per string 2-12 Array Across Between Sta  
 per trace 24 total Centered

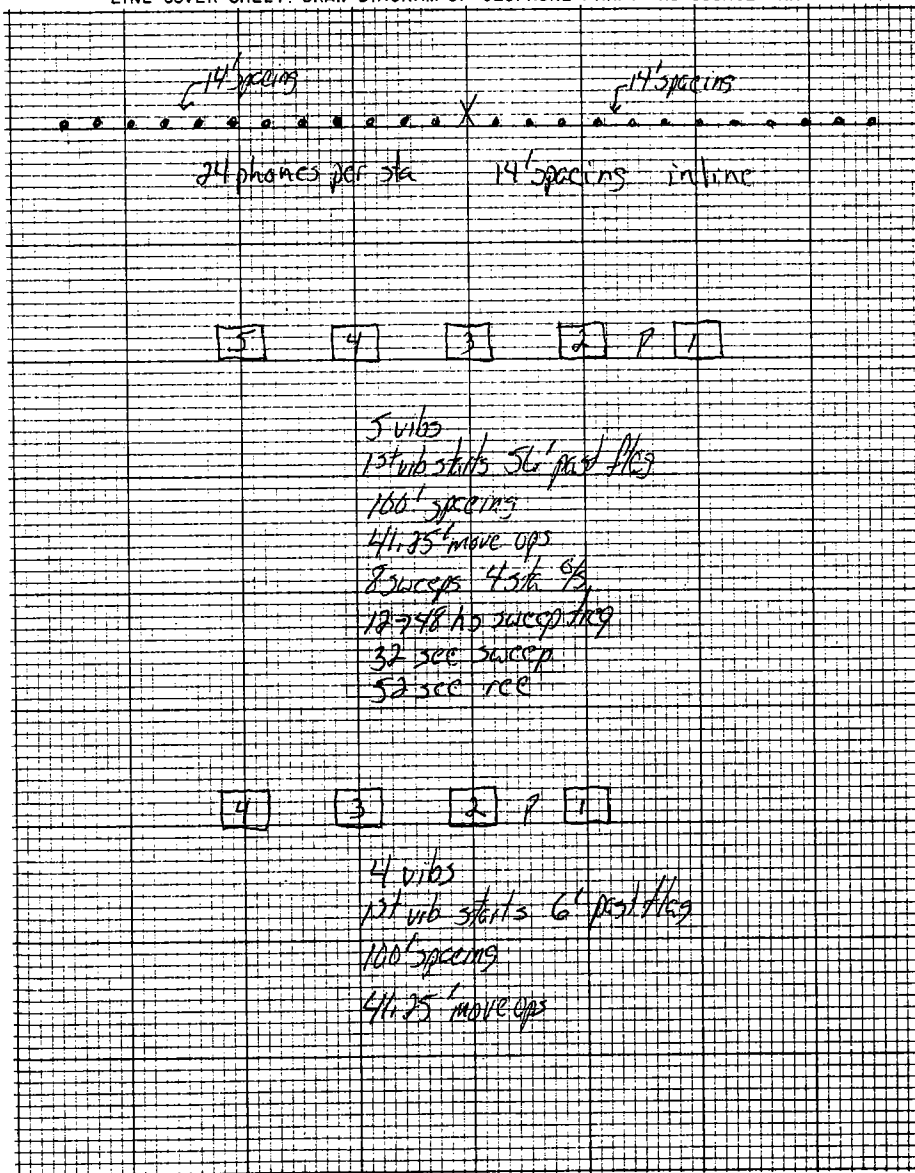
Separation Ser Par Coil Res. String Phone  
 Connected

Connected Ser Par Separation between elements in the array  
 at Sta    14.34'  
14'

RECORDING SYSTEM	
Type:	<u>MDS-10</u>
Format:	<u>SEB-B</u>
No. of Channels:	<u>96</u>
Sample Rate:	<u>8ms</u>
Record Length:	<u>61 sec</u>
BPI:	<u>800</u>
Low-Cut Filter	Freq: <u>CUT</u> Slope: <u>CUT</u>
High-Cut Filter	Freq: <u>1162 62.5</u> Slope: <u>CUT</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</u> Hz
UH Ch.	Wireline On Tape <u>N/A</u>
On Tape	Radio On Tape <u>N/A</u>
Sweep Ch.	<u>ADX #2 661vc #50</u>
On Tape	<u>ADX #4 661vc #52</u>

ENERGY SOURCE	
Type:	<u>V-1100's</u>
Manufacturer:	<u>Falling</u>
Source Control:	<u>RCU-310</u>
Dynamite	Holes/Shotpoint: <u>N/A</u> Charge/Shotpoint: <u>N/A</u> Pattern Length: <u>N/A</u> Feet Meters
Surface Source	Array Length: <u>489'</u> <sup>Feet</sup> <u>Meters</u> No. of drops, sweeps, etc. in array: <u>8 sweeps</u> Sweep Freq: <u>12-248hz</u> Sweep Length: <u>32 sec</u> Unit Separation: <u>100'</u> <sup>Feet</sup> <u>Meters</u> Unit Moveup: <u>41.25'</u> <sup>Feet</sup> <u>Meters</u> 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:

1  
 200  
 204  
 208  
 217  
 219