

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		TRAIL CONDITIONS MODERATE DIRT ROAD		DATE MONTH 5 DAY 29 YEAR 86		CLIENT COCORP		OB FOREMAN/MORE		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	TR	TR	TR				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H.T.	N. UNITS	NO. SUMS	DRIVE						
894	946	862			958	45	565	48									5	8	50%	890/1091		4	#	
895	948	863			958	45													50%					FILE 895 No Good PARITY
896	948	863			958	45													50%					
897	949	863			958	45													50%					
898	950	863			958	45													50%					
899	951	862			958	45													50%					
900	952	863			958	45													50%					
901	953	863			958	45													50%					
902	WIND TEST STRIP				45														60db					
903	954	863			958	45													50%					
904	955	863			958	45													50%					
905	956	863			958	45													50%					
906	957	863			958	45													50%					
907	958	863			958	45	565												50%		2:00			END OF LINE # 7

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CREW NO. 6834		LINE NO. 7	LEAVE TOWN/CAMP 7:00		ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER CLEAR	TRAIL CONDITIONS CCL	DATE MONTH 5 DAY 22 YEAR 86	CLIENT CCCCORP	OB FOREMAN/MSORRE	PM BIRN'S										
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					DRIVE	
900	ALL ONES					1-6 SEC	553	48											4	8	811/812	4	4 VIBS 100' SPACING FIRST VIB 6' PAST FLAG
933	PULSE					1-6 SEC																10:00	IN LINE 41.25' MOVE UP VIB # 23653 OUT
934/935	EINT					2-6 SEC																	PAD CAME LOOSE FROM LEGS
936/937	DRD					4-6 SEC																	8 SURFCS 26 SEC SURF LENGTH 12.40HZ SURF REC
943/955	SUM					2-6 SEC																	42 SEC RECORD LENGTH 4MS SAMPLE RATE 62.5HZ ALLAS REC
960/441	NRTJ					2-6 SEC																	
932	SIMILARITY					1-26 SEC													4	1	30%	11:30	LATE START DUE TO SIMS
732	WIND TEST STRIP					1																	
733	736	740				835	1	553															E.O.T. #553 TAPE MARKS
734	737	741				836	2	554															B.O.T. #554
735	738	742				837	3																
736	739	743				838	4																
737	740	744				839	5																
738	741	745				840	6																
739	742	746				841	7																
740	743	747				842	8																
741	744	748				843	9																
742	745	749				844	10																
743	746	750				845	11																
744	747	751				846	12																
745	748	752				847	13																
746	749	753				848	14																
747	750	754				849	15																
748	751	755				850	16																
749	752	756				851	17																
750	753	757				852	18	554															FCT # 554 TAPE MARKS
751	754	758				853	19	555															BOT # 555
752	755	759				854	20																
753	756	760				855	21																
754	757	761				856	22																
755	758	762				857	23																
756	759	763				858	24																

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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	OB	PM										
634	7	7:00				Clear cool	Dirt road	5	21	86	COCOP	FORAN/MISC	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	TR	TR	TR				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U.H.T.	N. UNITS	NO. SUMS	DRIVE					
757	760	765			859	25	555	48								4	8	50%	611/812			4	
758	761	765			860	26												50%					
759	762	766			861	27												60%					
760	763	767			862	28												50%					
761	764	768			863	29												50%					
762	765	769			864	30												50%					
763	766	770			865	31												50%					
764	767	771			866	32												50%					
765	768	772			867	33												50%					
766	769	773			868	34												50%					
767	770	774			869	35	555											50%					ECT # 555
768	771	775			870	36	556											50%					BOT # 556
769	772	776			871	37												50%					
770	773	777			872	38												50%					
771	774	778			873	39												50%					
772	775	779			874	40												50%					
773	WIND TEST STRIP				41													60db					
774	776	780			875	41												50%					
775	777	781			876	42												50%					
776	778	782			877	43												50%			4:45		

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CREW NO. 6834		LINE NO. 7		LEAVE TOWN/CAMP 7:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER OVERCAST		TRAIL CONDITIONS COIL DIET TRAIL		DATE MONTH 5 DAY 21 YEAR 86		CLIENT COCORP		OB Foreman/more		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	TR	TR	TR				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H.T.	N. UNITS	NO. SUMS					DRIVE	
707	712	716			811	27	552	48								5	8	50%	961/1962			4	
708	713	717			812	28												50%					
709	714	718			813	29												50%					
710	715	719			814	30												50%					
711	716	720			815	31												50%					
712	717	721			816	32												50%					
713	718	722			817	33												50%					
714	719	723			818	34												50%					
715	720	724			819	35												50%					
716	721	725			820	36												50%					
717	722	726			821	37												50%					
718	723	727			822	38	552											50%					EOT # 552 TAPC MARKS
719	724	728			823	39	553											50%					BOT # 553
720	725	729			824	40												50%					
721	726	730			825	41												50%					
722	727	731			826	42												50%					
723	728	732			827	43												50%					
724	729	733			828	44												50%					
725	730	734			829	45												50%					
726	731	735			830	46												50%					
727	732	736			831	47												50%					
728	733	737			832	48												50%					
729	734	738			833	49												50%					
730	WIND TEST	STAIR			89													60db					
731	735	739			834	50												50%					4:20

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CREW NO. 6834		LINE NO. 7		LEAVE TOWN/CAMP 7:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER CLEAR COOL DIRT TRAIL		TRAIL CONDITIONS		DATE MONTH 5 DAY 20 YEAR 86		CLIENT COCORP		OB FOREMAN/MONRE		PM BINNUS		
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN RAMP/1000	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						
900	ALL ONES					1-6SEC	547	48									5	8			704/705		4	5 VIBS 100' SPACING FIRST VIB 50' PAST FLAG
933	PULSE					1-6SEC																9:20		IN LINE 91.25' MOVE UP
934/935	EINT					2-6SEC																		8 SWEEPS 20 SEC SWEEP LENGTH 12-98HZ SWEEP FEED
936/937	DRD					4-6SEC																		42 SEC RECORD LENGTH 9 MS SAMPLE RATE 6.25HZ ALIAS FEED
953/954	SUM					2-6SEC																		
960/961	NRJ					2-6SEC																		
932	SIMILARITY					1-26 SEC																10:20		
630	WIND TEST STRIP					240																		SMS TAKEN WITH CAMERA AT VIBS
631	628 632					727 240																	10:30	
632	629 633					728 1																		
633	630 634					729 2																		
634	631 635					730 3																		
635	632 636					731 4																		
636	633 637					732 5																		
637	634 638					733 6																		
638	635 639					734 7																		1ST HALF
SKIP	636																							NO SHOULDER FOR VIBS SKIP
SKIP	637																							HOUSES SKIP
SKIP	638																							STA # 637-644 SKIPPED, SEVERAL HOUSES
SKIP	649																							
639	645 649					744 17	548																	LAST HALF EOT # 547 TAPE MARKS
640	646 650					745 18	548																	BOT # 548
641	647 651					746 19																		
642	648 652					747 20																		
643	649 653					748 21																		
644	650 654					749 22																		
645	651 655					750 23																		
646	652 656					751 24																		
647	653 657					752 25																		
648	654 658					753 26																		
649	655 659					754 27																		
650	656 660					755 28																		Wind is picking up

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GFO-252-D

CREW NO. 6834		LINE NO. 7		LEAVE TOWN/CAMP 7:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER CLEAK COOL DRY TRAIL		TRAIL CONDITIONS			DATE MONTH 5 DAY 20 YEAR 86			CLIENT COCORP		OP FERGUSON/MOOKS		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	TR	TR	TR				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U.H.T.	N. UNITS	NO. SUMS	DRIVE							
651	657	661			756	29	548	78								5	8	50%	70%/705		4				
652	658	662			757	30												50%							
653	659	663			758	31												50%							
654	660	664			759	32												50%							
655	661	665			760	33	548											50%				EOT # 548 TAPE MARKS			
656	662	666			761	34	549											50%				BOT # 549			
657	663	667			762	35												50%							
658	664	668			763	36												50%							
659	665	669			764	37												50%							
660	666	670			765	38												50%							
661	667	671			766	39												50%							
662	668	672			767	40												50%							
663	669	673			768	41												50%							
664	670	674			769	42												50%							
665	671	675			770	43												50%							
666	672	676			771	44												50%							
667	673	677			772	45												50%							
668	674	678			773	46												50%							
669	675	679			774	47												50%							
670	676	680			775	48												50%							
671	677	681			776	49	549											50%				EOT # 549 TAPE MARKS			
672	678	682			777	40	550											50%	71%/715			NEW RECORDER LOCATION BOT # 550			
673	679	683			778	41												50%							
674	680	684			779	42												50%							
675	WIND TEST STICK				43													60db							
676	681	685			780	43												60%							
677	682	686			781	44												50%							
678	683	687			782	45												50%							
679	684	688			783	46												50%							
680	685	689			784	47												50%							
681	686	690			785	48												50%							
682	687	691			786	49												50%				4:30			

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

9EO-252-D

GROW NO. 6837		LINE NO. 7	LEAVE TOWN/CAMP 7:00	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER CLEAR Cool DIRT TRAIL	TRAIL CONDITIONS	DATE MONTH 5 DAY 19 YEAR 86	CLIENT COCORP	OB FERRIS/MORSE	PM BIRNIS								
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL	GAIN	PARITY		SHOOTING				SUR. SOURCES		INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS
		TR	TR	TR	TR		REEL NO.	PAMPS OR "K"	TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U.H.T.	N. UNITS				
900	ALL ONES				1-6 SEC	544	48							5	E		65%/65	4	ARIZONA COCORP	5 VIBS, 100' SPACING, FIRST VIB 36' PAST FLAG
933	PULSE				1-6 SEC													9:15		8 SWEEPS, 26 SEC SWEEP LENGTH 12.48 HZ SWEEP RATE
934/935	EINT				2-6 SEC															IN LINE 41.25' MOVE UP
936/939	DOD				4-6 SEC															4 MS SAMPLE RATE 42 SEC RECOR LENGTH 62.5 HZ PLINE RATE
953/954	SUM				2-6 SEC															
960/961	NRJ				2-6 SEC															
932	SIMILARITY				1-26 SEC											30%		10:00		
585	WIND TEST				STRIP 1											60%		10:15		
586	579	583			678	1										50%				
587	580	584			679	2										50%				
588	581	585			680	3										50%				
589	582	586			681	4										50%				
590	583	587			682	5										50%				
591	584	588			683	6										50%				
592	585	589			684	7										50%				
593	586	590			685	8										50%				4 VIBS #3332 OUT PUMP? FIRST VIB 6' PAST FLAG
594	587	591			686	9	544									50%				EOT # 599 TAPE MARKS
595	588	592			687	10	545									50%				BOT # 545
596	589	593			688	11										50%				
597	590	594			689	12										50%				
598	591	595			690	13										50%				
599	592	596			691	14										50%				
600	593	597			692	15										50%				
601	594	598			693	16										50%				
602	595	599			694	17										50%				CORP immediately by Vib # 23652 down
603	596	600			695	18										50%				
604	597	601			696	19										50%				
605	598	602			697	20										50%				
606	599	603			698	21										50%				
607	600	604			699	22										50%				
608	601	605			700	23										50%				
609	602	606			701	24	545									50%				EOT # 545 TAPE MARKS

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GEO-252-D

CREW NO. 6834		LINE NO. 7:00		LEAVE TOWN/CAMP		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER CLEAR MODERATE		TRAIL CONDITIONS DIRT TRAIL		DATE MONTH 5 DAY 19 YEAR 66		CLIENT COCORP		OB FOLEMAN / ARDRE		PM BIAN S	
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	TR	TR	TR				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H. T.	N. UNITS	NO. SUMS	DRIVE					
610	603	607			702	25	546	9E								4	8	50%	159/155		4	ARIZONA COCORP BOT # 546	
611	604	608			703	26												50%					
612	605	609			704	27												50%					
613	606	610			705	28												50%					
614	607	611			706	29												50%					
615	608	612			707	30												50%					
616	609	613			708	31												50%					
617	610	614			709	32												50%					
SKIP	611																	SKIP				VP 11-16 SKIPPED NO ROAD	
SKIP	612																	SKIP				CABLE GOES CROSS COUNTRY	
SKIP	613																	SKIP					
SKIP	614																	SKIP					
SKIP	615																	SKIP					
618	616	620			715	38												50%				LAST HALF	
619	617	621			716	39												50%					
620	WIND	TEST	STRIP			40												60db					
621	618	622			717	40												50%					
622	619	623			718	41												50%				1ST HALF FENCE	
623	620	624			719	42												50%				2ND HALF	
624	621	625			720	43												50%					
625	622	626			721	44												50%					
626	623	627			722	45	547											50%					
627	624	628			723	46												50%					
628	625	629			724	47												50%				END HIGH HOUSE	
629	626	630			725	48												50%					
630	627	631			726	49												50%		4:30			

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GEO-252-D

CREW NO. 6834		LINE NO. 7		LEAVE TOWN/CAMP 7:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER CLEAR COOL		TRAIL CONDITIONS DIRT ROAD		DATE MONTH 5 DAY 16 YEAR 26		CLIENT COLORP		OB F3251114/1120RE		PM BINNS				
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				
579	573	577			672	24	54.3	48																		
580	574	578			673	25	54.3																		FT # 593 TAPE MARKS	
581	575	579			674	26	54.4																		BOT # 599	
582	576	580			675	27																				
583	577	581			676	28																				
584	578	582			677	29																			RAINED OUT	
585	579	583			678	30																				

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

GEO-252-D

CREW NO. 664		LINE NO. 7		LEAVE TOWN/CAMP 7:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER OVERCAST COOL DIRTY TRAIL		TRAIL CONDITIONS DATE MONTH 5 DAY 15 YEAR 86			CLIENT COCCOP		OB G. GONZALES/MADE		PM. 131112		
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					
525	521	525			620	25	540	98								5	8	50%	572/523			4	
526	522	526			621	26												50%					
527	523	527			622	27												50%					
528	524	528			623	28												50%					
529	525	529			624	29												50%					
530	526	530			625	30												50%					
531	527	531			626	31												50%					
532	528	532			627	32												50%					
533	529	533			628	33	540											50%					EOT # 540 TAPE MARKS
534	530	534			629	34	541											50%					EOT # 541
535	531	535			630	35												50%					
536	532	536			631	36												50%					
537	533	537			632	37												50%					
538	534	538			633	38												50%					
539	535	539			634	39												50%					
540	536	540			635	40												50%					
541	537	541			636	41												50%					
542	WIND TEST STOP				42													60%					
543	538	542			637	42												50%					
544	539	543			638	43												50%					
545	540	544			639	44												50%					
546	541	545			640	45												50%					
547	542	546			641	46												50%					
548	543	547			642	47												50%					
549	544	548			643	48	541											50%					EOT # 541 TAPE MARKS
550	545	549			644	49	542											50%					EOT # 542
551	546	550			645	50												50%					
552	547	551			646	51												50%					
553	548	552			647	52												50%				9:15	

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GEO-252-D		CREW NO. 6839		LINE NO. 7		LEAVE TOWN/CAMP 7:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER CLEAR moderate		TRAIL CONDITIONS DIST TRAIL		DATE MONTH 5 DAY 13 YEAR 66		CLIENT C.C. COPE		OB FERGUSON/MORSE		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	TR	TR	TR					SIZE	TOP	BOT.	NO CAPS	U. H. T.	N. UNITS					NO. SUMS	DRIVE						
900	ALL	CNES				1-6 SEC	532	48							5	8		472/473	4	ARIZONA COCONINO							
933	PULSE					1-6 SEC													8:30	IN LINE 41.26' MOVE UP							
934/935	EJNT					2-6 SEC														ESWEEPS 26 SEC SWEEP LENGTH 12-48 SWEEP FREQ							
936/939	DRD					4-6 SEC														42 SEC RECORD LENGTH 4MS SAMPLE RATE 62.5HZ AQUIF FREQ							
953/954	SUM					2-6 SEC																					
960/961	NRJ					2-6 SEC																					
932	SIMILARITY					1-26 SEC	SIMS TAKEN WITH CAMERA AT VIBS								30%		10:30										
397	WIND TEST STRIP																										
398	397	401				496	1													50%		10:45	LATE START DUE TO SIMS				
399	398	402				497	2													50%							
400	399	403				498	3													50%							
401	400	404				499	4													50%							
402	401	405				500	5													50%							
403	402	406				501	6													50%							
404	403	407				502	7													50%							
405	404	408				503	8													50%							
406	405	409				504	9													50%							
407	406	410				505	10	532												50%			EOT # 532 TAPE MARKS				
408	407	411				506	11	533												50%			BOT # 533				
409	408	412				507	12													50%							
410	409	413				508	13													50%							
411	410	414				509	14													50%							
412	411	415				510	15													50%							
413	412	416				511	16													50%							
414	413	417				512	17													50%							
415	414	418				513	18													50%							
416	415	419				514	19													50%							
417	416	420				515	20													50%							
418	417	421				516	21													50%							
419	418	422				517	22													50%							
420	419	423				518	23													50%							
421	420	424				519	24													50%							

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

GEO-252-D

CREW NO. 6839		LINE NO. 7		LEAVE TOWN/CAMP 7:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER CLEAR MODERATE		TRAIL CONDITIONS DIRT TRAIL		DATE MONTH 5 DAY 13 YEAR 86		CLIENT COCALP		OB FELDMAN/MOORE		PM BINNS	
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN RAMP OF "K"	PARITY		SHOOTING					SUR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS	
		TR	TR	TR	TR				TAPE	MEMORY CLASSIFIED	SIZE	TOP	BOT.	NO CAPS	U.H.T.	N. UNITS	NO. SUMS	DRIVE					
422	421	425			520	25	533	46								5	8	50%	472/473			4	
423	422	426			521	26	533											50%					EOT # 533 TAPE MARKS
424	423	427			522	27	534											50%					BOT # 534
425	424	428			523	28												50%					
426	425	429			524	29												50%					
427	426	430			525	30												50%					
428	427	431			526	31												50%					
429	428	432			527	32												50%					
430	429	433			528	33												50%					
431	430	434			529	34												50%					
432	431	435			530	35												50%					
433	432	436			531	36												50%					
434	433	437			532	37												30%					1ST HALF PIPELINE
SKIP	434																	SKIP					
435	435	439			534	39												30%					2ND HALF
436	436	440			535	40												50%					
437	437	441			536	41												50%					
438	WIND TEST STRIP				42													60%					
439	438	442			537	42	534											50%					EOT # 534 TAPE MARKS
440	439	443			538	43	535											50%					BOT # 535
441	440	444			539	44												50%					
442	441	445			540	45												50%					
443	442	446			541	46												50%					
444	443	447			542	47												50%					
445	444	448			543	48												50%					
446	445	449			544	49												50%					
447	446	450			545	50												50%					
448	447	451			546	51												50%				4:20	

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

GEO-252-D

CREW NO. 6834		LINE NO. 7		LEAVE TOWN/CAMP 2:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER CLEAR COOL DRT TRAIL		TRAIL CONDITIONS		DATE MONTH 5 DAY 12 YEAR 86		CLIENT CCCORP		OB FOREMAN/MOORE		PM BINNS	
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN FANPS or "K"	PARITY	SHOOTING				SUR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS ARIZONA COCONINO BOT # 530			
		TR	TR	TR	TR					SIZE	TOP	BOT.	NO CAPS	U. H.T.	N. UNITS	NO. SUMS							
377	378	382			477	22	530	48						5	8	50%	432/433						
378	379	383			478	23										50%							
379	380	384			479	24										50%							
380	381	385			480	25										50%							
381	382	386			481	26										50%							
382	383	387			482	27										50%							
383	384	388			483	28										50%							
384	385	389			484	29										50%							
385	386	390			485	30										50%							
386	387	391			486	31										50%							
387	388	392			487	32										50%							
388	389	393			488	33										50%							
389	390	394			489	34										50%							
390	391	395			490	35										50%							
391	392	396			491	36										50%							
392	393	397			492	37										50%							
393	394	398			493	38										50%							
394	395	399			494	39										50%							
395	WIND TEST STRIP				40											60%							
396	396	400			495	40										50%		4.30					

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 Cloudy Cool	TRAIL CONDITIONS DIRT TRAIL	DATE MONTH 5 DAY 8 YEAR 86	CLIENT COCOLP	OB FALLON/PIORE	PM BIRN S								
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				
262	260	264			369	25	523	48							5	8	50%	311/312	9		
263	261	265			360	26											50%				
264	262	266			361	27											50%				
265	263	267			362	28											50%				
266	264	268			363	29											50%				
267	265	269			364	30											50%				
268	266	270			365	31											50%				
269	267	271			366	32											50%				
270	268	272			367	33											50%				
271	269	273			368	34											50%				
272	270	274			369	35											50%				
273	271	275			370	36	523										50%				ECT # 523 TAPE MARKS
274	272	276			371	37	524										50%				BOT # 524
275	273	277			372	38											50%				
276	274	278			373	39											50%				
277	275	279			374	40											50%				
278	276	280			375	41											50%				
279	277	281			376	42											50%				
280	278	282			377	43											50%				
281	279	283			378	44											50%				
282	280	284			379	45											50%				
283	281	285			380	46											50%				
284	282	286			381	47											50%				
285	283	287			382	48											50%				
286	284	288			383	49											50%				
287	285	289			384	29											50%	332/333			NEW RECORNER LOCATION
288	286	290			385	30											50%				
289	287	291			386	31	524										50%				ECT # 524 TAPE MARKS
290	288	292			387	32	525										50%				BOT # 525
291	289	293			388	33											50%				
292	290	294			389	34											50%				
293	291	295			390	35											50%				

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 GREAT COOL DMR TRAIL		TRAIL CONDITIONS			DATE MONTH 5 DAY 7 YEAR 86	CLIENT COLOR	OB FURMAN/MOORE	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	TR	TR	TR				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H. T.	N. UNITS	NO. SUMS	DRIVE				
212	208	212			307	25	519	48							5	E	50%	257/260		4		
213	209	213			308	26											50%					
214	210	214			309	27	519										50%				ECT # 519 TAPE MARKS	
215	211	215			310	28	520										50%				BOT # 520	
216	212	216			311	29											50%					
217	213	217			312	30											50%					
218	214	218			313	31											50%					
SKIP	215																SKIP 257/297				NEW RECORDER LOCATION	
SKIP	216																SKIP				STA 215-218 SKIPPED DEEP RAVINE	
SKIP	217																SKIP				2 HOUR GO ROUND FOR VIBS. CREW STANDING BY	
SKIP	218																SKIP					
219	219	223			318	239											50%					
220	220	224			319	240											50%					
221	221	225			320	1											50%					
222	222	226			321	2											50%					
223	223	227			322	3											50%					
224	224	228			323	4											50%					
225	225	229			324	5											50%					
226	226	230			325	6											50%					
227	227	231			326	7											50%					
228	228	232			327	8											50%					
229	229	233			328	9											50%					
230	230	234			329	10	520										50%				ECT # 520 TAPE MARKS	
231	231	235			330	11	521										50%				BOT # 521	
232	232	236			331	12											50%					
233	Wind	TEST STRIP				13											6db					
234	233	237			332	13											50%					
235	234	238			333	14											50%					
236	235	239			334	15											50%			5:25		

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

GEO-252-D

CREW NO. 6834		LINE NO. 7	LEAVE TOWN/CAMP 7100				ARRIVE TOWN/CAMP		TOTAL TR. TIME	DOWN TIME		WEATHER CRENIL	TRAIL CONDITIONS COOL DIRT TRAIL				DATE MONTH 5 DAY 5 YEAR 86	CLIENT CECORP	OB REAMAN/MOORE	PM B. N. D.	
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN PAMPS or "K"	PARITY		SIZE	TOP	SH. TING	SUR. SOURCES				INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS
		TR	TR	TR	TR				TAPE	MEMORY				NO CAPS	U. H. T.	N. UNITS	NO. SUMS				
114	108	112			207	23	513	48						5	8	50%	16/162	4			
115	109	113			208	24										50%					
116	110	114			209	25										50%					
117	111	115			210	26										50%					
118	112	116			211	27										50%					
119	113	117			212	28										50%					
120	114	118			213	29	513									50%			ECT #513 TAPE MARKS		
121	115	119			214	30	514									50%			LOT # 514		
122	116	120			215	31										50%					
123	117	121			216	32										50%			Start 216 ops. due to rocky area no place to plant phones		
124	118	122			217	33										50%					
125	119	123			218	34										50%					
126	120	124			219	35										50%					
127	121	125			220	36										50%					
128	122	126			221	37										50%					
129	123	127			222	38										50%					
130	124	128			123	39										50%					
131	125	129			124	40										50%					
132	126	130			125	41										50%					
133	127	131			126	42										50%					
134	128	132			127	43										50%					
135	129	133			128	44										50%					
136	130	134			129	45	514									50%			ECT # 514 TAPE MARKS		
137	131	135			130	46	515									50%			LOT # 515		
138	132	136			131	47										50%					
139	WIND	REST	STRIP			48										60 db					
140	133	137			132	49										50%					
141	134	138			133	49										50%					
142	135	139			134	50										50%					
143	136	140			135	51										30%			1ST HALF		
SKIP	137															215/215			NEW RECORDER LOCATION		
SKIP	138																		CREW STANDING BY 1 HOUR GO ROUND		

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 COOL		TRAIL CONDITIONS DIRT TRAIL		DATE MONTH 5 DAY 5 YEAR 86		CLIENT COCORP		OB PROGRAM/MODE		PM BIRNS	
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	
SKIP	139					515	46									5	8		2A/215		4	137-141 SKIPPED DUE TO RANCH HEADQUARTERS	
SKIP	140																						
SKIP	141																						
144	142	146			241	4																	2ND HALF
145	143	147			242	5																	
146	144	148			243	6																	
147	145	149			244	7																	
148	146	150			245	8		11															
149	147	151			246	9																	
150	148	152			247	10																	
151	149	153			248	11																	
152	150	154			249	12	515																ERT # 515 TAP MARKS

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 COOL	TRAIL CONDITIONS DIRT TRAIL	DATE MONTH 5 DAY 2 YEAR 86	CLIENT EDCORP	OB FOREMAN/POORE	PM BINNS								
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
900		ALL ONES					508	48	FILE #3.3	IS	BOT	REEL	508		4	8		107/108	4	4 VIBS IN LINE 100' SPACING - FIRST VIB 6'
933		PULSE							ARRIVE			FIELD						8:00		PAST FLAG EDWARDS 26 SEC SWEEP LENGTH
939/935		EINT																		12-48HZ SWEEP FREQ 42SEC RECORD LENGTH
939/939		DRD																		4 MS SAMPLE RATE 62.5HZ ALIAS FREQ
953/959		SUM																		
960/961		NRT																		VIA # 25865 OUT TRUCK REAR END PROB
932		SIMILARITY							SIMS	TAKEN	WITH	CAMERA	AT	VIBS						SOME NOISE DUE TO COWS ON LINE
34		WIND TEST STRIP				1														STA # 139 NOISY DUE TO A WATER WELL
35	32	36			131	1												9:30		
36	33	37			132	2														
37	34	38			133	3														
38	35	39			134	4														
39	36	40			135	5														
40	37	41			136	6														
41	38	42			137	7														
42	39	43			138	8	508												ECT # 508 TAPE MARKS	
43	40	44			139	9	509												BOT # 509	
44	41	45			140	10														
45	42	46			141	11			11											
46	43	47			142	12													FILE 46 NO GOOD PARITY	
47	43	47			142	12														
48	44	48			143	13													Wind noise getting worse also cloudy	
49	45	49			144	14														
50	46	50			145	15														
51	47	51			146	16														
52	48	52			147	17			11											
53	49	53			148	18														
54	50	54			149	19														
55	51	55			150	20														
56	52	56			151	21														
57	53	57			152	22														
58	54	58			153	23	509												ECT # 509 TAPE MARKS	

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 COOL		TRAIL CONDITIONS DIRT TRAIL		DATE MONTH 5 DAY 2 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			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						
59	55	59			154	24	510	48								4	8	50%	107/100			4	ARIZONA COCONINO BOT # 510	
60	56	60			155	25												50%						
61	57	61			156	26												50%						
62	58	62			157	27												50%						
63	59	63			158	28												50%						
64	60	64			159	29												50%						
65	61	65			160	30												50%						
66	62	66			161	31												50%						
67	63	67			162	32												50%						
68	64	68			163	33												50%						
69	65	69			164	34												50%						
70	66	70			165	35												50%						
71	67	71			166	36												50%						
72	68	72			167	37												50%						
73	69	73			168	38												50%						
74	70	74			169	39	510											50%						EOT # 510 TAPE MARKS
75	71	75			170	40	511											30%						WATER WELL 1ST HALF BOT # 511
SKIP	72																	SKIP						
SKIP	73																	SKIP						
76	74	78			173	43												30%						2ND HALF
77	75	79			174	44												50%						
78	76	80			175	45												50%						
79	77	81			176	46												50%						
80	78	82			177	47												50%						
81	79	83			178	48												50%						
82	80	84			179	49												50%						
83	81	85			180	26												50%	131/132					NEW RECORDER LOCATION
84	WIND TEST STRIP					27												60%						
85	82	86			181	27												50%						
86	83	87			182	28												50%						
87	84	88			183	29												50%						
88	85	89			184	30	511											50%				4:30		EOT # 511 TAPE MARKS

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 COOL	TRAIL CONDITIONS DIRT TRAIL	DATE MONTH 5 DAY	YEAR 06	CLIENT COCCRP	OB FOREMAN/MOORE	PM BINNS									
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN FAMPS 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
1	WIND TEST STRIP				1	506	48									4	8	60db	07/077	12:00	4	ARIZONA COCONINO 100' VIB SPACING
2	1	5			100	1												50%				8 SWEEPS 26 SEC SWEEP LENGTH 12-18 NE SWEEP
3	2	6			101	2												50%				FREQ 42 SEC RECORD LENGTH 4MS SAMPLE RATE
4	3	7			102	3												50%				62.5HZ ALIAS FREQ VIBS ON DIRT TRAIL
5	4	8			103	4												50%				VIB # 25865 OUT, TRUCK PROBLEM
6	5	9			104	5												50%				NO DAILY TESTS MONTHLY TESTS SENT TO HOUSTON GE.
7	6	10			105	6												50%				FILE #7 BAD PARITY
8	6	10			105	6												50%				NOISY STA'S ON LINE DUE TO CATTLE
9	7	11			106	7												50%				
10	8	12			107	8												50%				
11	9	13			108	9												50%				
12	10	14			109	10												50%				
13	11	15			110	11												50%				
14	12	16			111	12												50%				
15	13	17			112	13												50%				
16	14	18			113	14	506											50%				EOT # 506 TAPE MARKS
17	15	19			114	15	507											50%				BOT # 507
18	16	20			115	16												50%				
19	17	21			116	17												50%				
20	18	22			117	18												50%				
21	19	23			118	19												50%				
22	20	24			119	20												50%				
23	21	25			120	21												50%				
24	22	26			121	22												50%				
25	23	27			122	23												50%				
26	24	28			123	24												50%				
27	25	29			124	25												50%				
28	26	30			125	26												50%				Windblast
29	27	31			126	27												50%				
30	28	32			127	28												50%				
31	29	33			128	29												50%				
32	30	34			129	30	507											50%				EOT # 507 TAPE MARKS



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 Az
Country Az

County COCUINO
Concession COCUINO

State Az

Party Mgr. Binns FOREMAN
OB/JO MOORE

Line No. 7 Date Start of Line 5-1-86

Sta. Int. 330' Feet Meters Fold 48%

Spread Dimensions 1-31350'

VP's Increase N E S W

GEOPHONES

Manufacture MD-100's Array Length 322'
Frequency 8hz Array Width inline
No. per string 20/12 Array Across Between Sta
per trace 24 PHONES PER STA. Centered

Separation Ser Par Coil Res. String Phone
String Connected Shunt Res.

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

RECORDING SYSTEM

Type: MDS-10

Format: SEq-B

No. of Channels: 96

Sample Rate: 4ms

Record Length: 42 sec

BPI: 1600

Low-Cut Filter Freq: OUT
Slope: 0/4

High-Cut Filter Freq: 62.5 kHz
Slope:

Static Filter In Out

Notch Filter 60Hz In Out

UH Ch. Wireline On Tape N/A
On Tape Radio On Tape N/A

Sweep Ch. Aut #2 EX 1/0 #50
On Tape " #4 " #52

ENERGY SOURCE

Type: 5 Y-1100s

Manufacturer: Failing

Source Control: RCV-210

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

Array Length: 489' Feet Meters

No. of drops, sweeps, etc. in array: 8 SWEEPS

Sweep Freq: 12-48hz

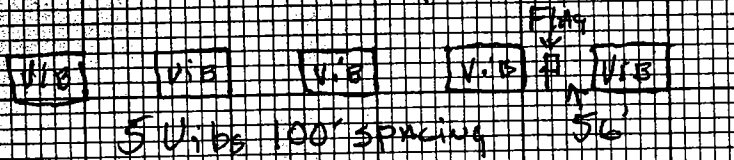
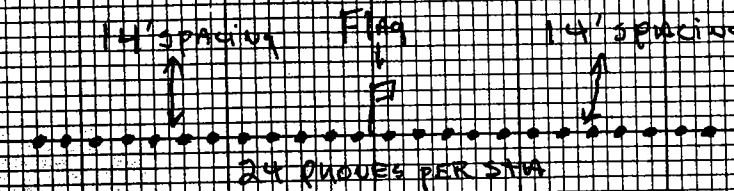
Sweep Length: 26-EC

Unit Separation: 100' Feet Meters

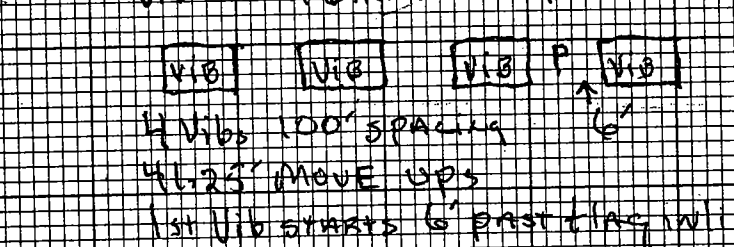
Unit Moveup: 41.25' Feet Meters

Array Across Between Centered:

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



8 SWEEPS 4 STA 9/5 inline 1320'
Vibs on a Disk not no pad boards



- Vib 1. 25865
- TRUCK 2. 33332
- 3. 32940
- 4. 23652
- 5. 25874

REMARKS: Air Gun Delay, etc.

VARI SOURCE USED Yes No Invalid Channels: