

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

GEO-252-D

CREW NO. 6834		LINE NO. 6	LEAVE TOWN/CAMP 7:00	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER CLEAR COOL	TRAIL CONDITIONS SHOULDER	DATE MONTH 4 DAY 30 YEAR 86	CLIENT COCORP	OB Folsman/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				
866	853	857			952	25	503	48							5	8	50%	90°/90°	4		
867	854	858			953	26											50%				STA # 953 F.O.L. # 6
868	857	858			953	26											50%				SHAKING THROUGH LINE. ROLL SWITCH POSITION AND SPREAD WILL REMAIN CONSTANT TO 62L.
869	860	858			953	26											50%				
870	863	858			953	26											50%				
871	866	858			953	26	503										50%				EOT # 503 TAPE MARKS
872	869	858			953	26	504										50%				BOT # 504
873	872	858			953	26											50%				
874	875	858			953	26											50%				
875	876	858			953	26											50%				
876	881	858			953	26											50%				
877	884	858			953	26											50%				
878	887	858			953	26											50%				
879	890	858			953	26											50%				
880	893	858			953	26											50%				
881	896	858			953	26											50%				
882	899	858			953	26											50%				
883	902	858			953	26											50%				
884	905	858			953	26											30%				
885	907	858			953	26											50%				
886	909	858			953	26											50%				
887	911	858			953	26	504		1								50%				EOT # 504 TAPE MARKS
888	913	858			953	26	505										50%				BOT # 505
889	915	858			953	26											50%				
890	917	858			953	26											50%				
891	WINA TEST STRIP				26												60db				
892	919	858			953	26											50%				
893	921	858			953	26											50%				
894	923	858			953	26											50%				
895	925	858			953	26											50%				
896	927	858			953	26											50%				1ST HALL - WELL
SKIP	929																				VP # 929 SKIPPED DUE TO BARN

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CREW NO. 6834		LINE NO. 6	LEAVE TOWN/CAMP 7:00	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER CLEAR COOL	TRAIL CONDITIONS SHOULDER	DATE MONTH 4	DAY 29	YEAR 86	CLIENT COCORP	OB Foreman/More	PM BINKS					
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN RAMP'S or "K"	PARITY TAPE	MEMORY MISSES Sweeps	SHOOTING					INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS
		TR	TR	TR	TR						SIZE	TOP	BOT.	NO CAPS	U.H.T.				
803	792	796			891	22	499	98						4	8	60%	846/847	4	
804	793	797			892	23										50%			
805	794	798			893	24										50%			
806	795	799			894	25										60%			
807	796	800			895	26										50%			
808	797	801			896	27	499									50%			EOT # 499 TAPC MARKS
809	798	802			897	28	500									50%			BOT # 500
810	799	803			898	29										50%			
811	800	804			899	30										30%			
812	801	805			900	31										50%			
813	802	806			901	32										50%			
814	803	807			902	33										50%			
815	804	808			903	34										50%			
816	805	809			904	35										50%			
817	806	810			905	36										50%			
818	807	811			906	37										50%			
819	808	812			907	38										50%			
820	809	813			908	39										50%			
821	810	814			909	40										50%			
822	811	815			910	41										50%			
823	812	816			911	42										50%			
824	813	817			912	43	500									50%			EOT # 500 TAPC MARKS
825	814	818			913	44	501									50%			BOT # 501
826	815	819			914	45										50%			
827	816	820			915	46										50%			
828	817	821			916	47										60%			
829	818	822			917	48										60%			
830	819	823			918	49										50%			
831	820	824			919	26										50%	870/871		NEW RECORDER LOCATION
832	821	825			920	27										50%			
833	822	826			921	28										50%			
834	823	827			922	29										50%			

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CREW NO. 6834		LINE NO. 6		LEAVE TOWN/CAMP 7:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER CLEAR COOL		TRAIL CONDITIONS SHOULDER		DATE MONTH 4 DAY 28 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 PASSES	SHOOTING					N. UNITS	NO. SUMS	DRIVE	INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS	
		TR	TR	TR	TR						SIZE	TOP	BOT.	NO CAPS	U.H.T.								
739	730	734			829	25	495	48						5	8	50%	791/782					4	
740	731	735			830	26											50%						
741	732	736			831	27											50%						
742	733	737			832	28											50%						
743	734	738			833	29											50%						
744	735	739			834	30											50%						
745	736	740			835	31	495										50%						EOT # 495 TAPE MARKS
746	737	741			836	32	496										50%						BOT # 496
747	738	742			837	33											50%						
748	739	743			838	34											50%						
749	740	744			839	35											50%						
750	741	745			840	36											50%						
751	742	746			841	37											50%						
752	743	747			842	38											50%						
753	744	748			843	39											50%						
754	745	749			844	40											50%						
755	746	750			845	41											50%						
756	747	751			846	42											50%						
757	748	752			847	43											50%						
758	749	753			848	44											50%						
759	750	754			849	45											50%						
760	751	755			850	46											50%						
761	752	756			851	47	496										50%						EOT # 496 TAPE MARKS
762	753	757			852	48	497										50%						BOT # 497
763	754	758			853	49											50%						
764	755	759			854	31											50%	800/801					NEW RECORDER LOCATION
765	756	760			855	32											50%						
766	757	761			856	33											50%						
767	758	762			857	34											50%						
768	759	763			858	35											50%						
769	WIND	TEST STRIP			859	36											60%						
770	760	764			859	36											50%						

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

CEO-252-D

CREW NO. 6634		LINE NO. 6		LEAVE TOWN/CAMP 6:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER CLEAR Cool		TRAIL CONDITIONS SHOULDER		DATE MONTH 4 DAY 26 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					
688	680	684			779	24	492	48								4	8	50%	732/733			4	
689	681	685			780	25												50%					
690	682	686			781	26												50%					
691	683	687			782	27												50%					
692	684	688			783	28												50%					
693	685	689			784	29												50%					
694	686	690			785	30												50%					
695	687	691			786	31												50%					
696	688	692			787	32												50%					
697	689	693			788	33												50%					
698	690	694			789	34												50%					
699	691	695			790	35	492											50%					ECT # 492 TAPE MARKS
700	692	696			791	36	493											50%					2ND HALF CULVERT BOT # 493
701	693	697			792	37												50%					
702	694	698			793	38												50%					
703	695	699			794	39												50%					
704	696	700			795	40												50%					
705	697	701			796	41												50%					
706	698	702			797	42												50%					
707	699	703			798	43												50%					
708	700	704			799	44												50%					
709	701	705			800	45												50%					
710	702	706			801	46												50%					
711	703	707			802	47												50%					
712	704	708			803	48												50%					
713	705	709			804	49												50%				1.30	

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GEO-252-D

CREW NO. 6834		LINE 6		LEAVE TOWN/CAMP 7:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER Windy CLEAR		TRAIL CONDITIONS Good		DATE MONTH 4 DAY 27 YEAR 86		CLIENT CCEP		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			
900	ALL ONES	1-6 SEC					487	46									5	E		690/691		4	ARIZONA NAVAJO	5 VIBS 100' SPACING FIRST VIB 36' PAST FLAG	
933	PULSE	1-6 SEC																						IN LINE 41.25' MOVE UP VIBS ON SHOULDER	
939/935	EINT	2-6 SEC																						8 SWEETS 26 SEC SWEEP LENGTH 12-48 HZ SWEEP REC'D	
934/939	DRD	4-6 SEC																						42 SEC RECORD LENGTH	
953/959	SUM	2-6 SEC																						4 MS SAMPLE RATE 62.5 HZ ALIAS FREE Q	
960/961	NRJ	2-6 SEC																						NOISE DUE TO TRAFFIC ARIZ Hwy 87	
932	SIMILARITY	1-26 SEC																						SIMS TAKEN WITH CAMERA AT VIBS	
617	WIND TEST STRIP																							STA # 620 IS OPEN DUE TO BRIDGE	
618	615	619				714	1																	50%	
619	616	620				715	2																	50%	
620	617	621				716	3																	50%	
621	618	622				717	4																	50%	
622	618	622				717	4	487																NO GOOD PARITY	
623	619	623				718	5	488																50%	
624	620	624				719	6	588																1ST HALF BOT # 488	
625	621	625				720	7																	2ND HALF COLLECT	
626	622	626				721	8																	50%	
627	623	627				722	9																	50%	
628	624	628				723	10																	50%	
629	625	629				724	11																	50%	
630	626	630				725	12																	Wind is getting worse now	
631	627	631				726	13																	50%	
632	628	632				727	14																	30%	
633	629	633				728	15																	HOUSES	
634	630	634				729	16																	30%	
635	631	635				730	17																	30%	
636	WIND TEST STRIP																							60db	
																								11:30	
																									STOPPED WORK EARLY DUE TO WIND

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CREW NO. 6834		LINE NO. 6		LEAVE TOWN/CAMP 7:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER CLEAR COOL		TRAIL CONDITIONS SHOULDER		DATE MONTH 4 DAY 22 YEAR 86		CLIENT COCORP		OB FOLEY/MORC		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				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H. T.	N. UNITS	NO. SUMS					DRIVE	
900	ALL CNES	1-6 SEC					481	48							5	8		60/602	8:00	4	ARIZONA NAVAJO		
933	PULSE	1-6 SEC																			5 VIBS 100' SPACING - FIRST VIB 56' PAST FLAG		
974/935	EINT	2-6 SEC																			IN LINE. 41,25' MOVE UP		
974/939	DRD	4-6 SEC																			8 SWEEPS 26 SEC SWEEP LENGTH R-48 HZ SWEEP FOR		
953/954	SUM	2-6 SEC																			42 SEC RECORD LENGTH VIBS ON SHOULDER		
960/961	NRS	2-6 SEC																			4MS SAMPLE RATE 62.5 HZ ALIAS FREQ		
932	SIMILARITY	1-26 SEC																			NOISE DUE TO TRAFFIC ARIZ HWY 87		
529	WIND TEST	STRIP				1															SIMS TAKEN WITH CAMERA AT VIBS		
530	526	530				625	1														30%		
531	527	531				626	2														60db 8:45		
532	528	532				627	3														50%		
533	529	533				628	4														50%		
534	530	534				629	5														50%		
535	531	535				630	6														50%		
536	532	536				631	7														50%		
537	533	537				632	8	481													EOT # 481 TAPE MARKS		
538	534	538				633	9	482													BOT # 482		
539	535	539				634	10														50%		
540	536	540				635	11														50%		
541	537	541				636	12														50%		
542	538	542				637	13														50%		
543	539	543				638	14														50%		
544	540	544				639	15														50%		
545	541	545				640	16														50%		
546	542	546				641	17														50%		
547	543	547				642	18														50%		
548	544	548				643	19														50%		
549	545	549				644	20														50%		
550	546	550				645	21								4						50%		
551	547	551				646	22														50%		
552	548	552				647	23														50%		
553	549	553				648	24														50%		
																					EOT # 482 TAPE MARKS		

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CREW NO. 6834		LINE NO. 6	LEAVE TOWN/CAMP 7:00	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER CLEAR COOL	TRAIL CONDITIONS SHOULDER	DATE MONTH 4 DAY 22 YEAR 82	CLIENT COCORP	OB FALLMAN/MOORE	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				
554	550	554			649	25	483	48								50%	601/602	4	ARIZONA NAVAJO	BOT # 483	
555	551	555			650	26										50%				Vib# 25865 BACK ON LINE	
556	552	556			651	27										50%					
557	553	557			652	28										50%					
558	554	558			653	29										50%					
559	555	559			654	30										50%					
560	556	560			655	31										50%					
561	557	561			656	32										50%					
562	558	562			657	33										50%					
563	559	563			658	34										50%					
564	560	564			659	35										50%					
565	561	565			660	36										50%					
566	562	566			661	37										50%					
567	563	567			662	38										50%				Wind is picking up sum not to bot	
568	564	568			663	39										50%					
569	565	569			664	40	483									50%				EOT # 483 TAPE MARKS	
570	566	570			665	41	484									50%				BOT # 484	
571	567	571			666	42										50%					
572	568	572			667	43										50%					
573	569	573			668	44										50%					
574	570	574			669	45										50%					
575	571	575			670	46										50%					
576	572	576			671	47										50%				LAST HALF - GULVERT	
577	573	577			672	48										50%					
578	574	578			673	49										50%					
579	575	579			674	18										50%	633/634			NEW RECORDER LOCATION	
580	576	580			675	19										50%					
581	577	581			676	20										50%					
582	578	582			677	21										50%					
583	579	583			678	22										50%					
584	580	584			679	23										50%					
585	581	585			680	24	484									30%				1ST HALF EOT # 484 TAPE MARKS	

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CREW NO. 6834		LINE NO. 6	LEAVE TOWN/CAMP 7:00	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER CLEAR COOL	TRAIL CONDITIONS SHADDED	DATE MONTH 4 DAY 21 YEAR 86	CLIENT Cogear	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		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							
477	475	479			574	25	478	48									5	8	50%	526/527		4			
478	476	480			575	26													50%						
479	477	481			576	27													50%						
480	478	482			577	28													50%						
481	479	483			578	29													50%						
482	480	484			579	30													50%						
483	481	485			580	31													50%						
484	482	486			581	32													50%						
485	483	487			582	33													50%						
486	484	488			583	34													50%						
487	485	489			584	35													50%						
488	486	490			585	36													50%						
489	487	491			586	37													50%						
490	488	492			587	38	478												50%						ECT # 478 TAPE MARKS
491	489	493			588	39	479												50%						BOT # 479
492	490	494			589	40													50%						
493	491	495			590	41													50%						
494	492	496			591	42													50%						
495	493	497			592	43													50%						
496	494	498			593	44													50%						
497	495	499			594	45													50%						
498	496	500			595	46													50%						
499	497	501			596	47													50%						
500	498	502			597	48													50%						
501	499	503			598	49													50%						
502	500	504			599	13													50%	563/564					New Recorder Location
503	501	505			600	14													50%						
504	502	506			601	15													50%						
505	503	507			602	16													50%						
506	504	508			603	17	479												50%						ECT # 479 TAPE MARKS
507	505	509			604	18	480												50%						BOT # 480
508	506	510			605	19													50%						

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CREW NO. 6834		LINE NO. 6		LEAVE TOWN/CAMP 7:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER CLEAR COOL		TRAIL CONDITIONS SHOULDER		DATE MONTH 4 DAY 21 YEAR 86		CLIENT CCCCOP		OB Foreman/Moore		PM B.N.W.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	DRIVE					
509	507	510			606	20	480	48								5	5	50%	563/564			4	
510	508	512			607	21												50%					
511	509	513			608	22												50%					
512	WIND	TEST	STRIP		609	23												60db					WIND BLAST OR AIRPLANE NOISE? MIGHT INTERFERE YOU
513	510	514			609	23												50%					
514	511	515			610	24												50%					
515	512	516			611	25												50%					
516	513	517			612	26												50%					
517	514	518			613	27												50%					LAST HALF CONVECT
518	515	519			614	28												50%					
519	516	520			615	29												50%					
520	517	521			616	30												50%					
521	518	522			617	31												50%					
522	519	523			618	32	460											50%					EOT # 480 TAPE MARKS
523	520	524			619	33	481											50%					BOT # 481
524	521	525			620	34												50%					
525	522	526			621	35												50%					
526	523	527			622	36												50%					
527	524	528			623	37												50%					
528	525	529			624	38												50%				5148	

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

GEO-252-0

CREW NO. 6834		LINE NO. 6		LEAVE TOWN/CAMP 7:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER CLEAR COOL		TRAIL CONDITIONS SHOULDER		DATE MONTH 4 DAY 18 YEAR 88			CLIENT COCORP		JOB 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 MISSED SWEEPS	SIZE	TOP	BOT.	NO CAPS	U. H. T.	N. UNITS	NO. SUMS	DRIVE							
436	433	437			532	29	475	48								5	8	50%	480/48				4		
437		WIND TEST STRIP				30													60%						
438	434	438			533	30													50%					2ND HALF CULVERT	
439	435	439			534	31													50%						
440	436	440			535	32													50%						
441	437	441			536	33													70%						
442	438	442			537	34													50%						
443	439	443			538	35	475												50%					EOT # 475 TAPE MARKS	
444	440	444			539	36	476												50%					BOT # 476	
445	441	445			540	37													50%						
446	442	446			541	38													50%						
447	443	447			542	39													50%						
448	444	448			543	40													50%						
449	445	449			544	41													50%						
450	446	450			545	42													50%						
451	447	451			546	43													50%						
452	448	452			547	44													50%						
453	449	453			547	45													50%						
454	450	454			548	46													50%		5:30			1ST HALF	

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

GEO-252-D

CREW NO. 6834		LINE NO. 6	LEAVE TOWN/CAMP 7:00	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER CLEAR	TRAIL CONDITIONS SHOULDER	DATE MONTH 4 DAY 17 YEAR 86	CLIENT CG CORP	OB FOREMAN/BOSS BIVON	PM							
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)			C. D. P.	DIGITAL REEL NO.	GAIN PAMPS or "K"	PARITY TAPE	MEMORY W/ISSUED SWEEPS	SHOOTING			SUR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS
		TR 1	TR	TR 96	POSITION				SIZE	TOP	BOT.	NO CAPS	U. H. T.	N. UNITS	NO. SUMS	DRIVE			
900	ALLOWES		1	6	SEC	468	48							5	8		392	4	511BS 100' SPACING - FIRST VIB 56' PAST FLAG
933	PULSE		1	6	"														IN LINE 41.25' MOVE UP
934/935	FINI		2	6	"														8 SWEEPS 26 SEC SWEEP LENGTH 12-48 HZ SWEEP REQ
936/939	DRD		4	6	"														42 SEC RECORD LENGTH VIBS ON SHOULDER
953/954	SUM		2	6	"														4 MS SAMPLE RATE 62.5 HZ ALIAS FREQ
960/961	NRJ		2	6	"														NOISE DUE TO TRAFFIC ARIZ Hwy 87
932	Similarity		1	26	"														SIMS TAKEN FROM LINE WITH CAMERA
321	Windscrip		1	42	"	1													
322	317	321			416	1													50%
323	318	322			417	2													50%
324	319	323			418	3													50%
325	320	324			419	4													50%
326	321	325			420	5													50%
327	322	326			421	6													50%
328	323	327			422	7													50%
329	324	328			423	8													50%
330	325	329			424	9													50%
331	326	330			425	10													50%
332	327	331			426	11													50%
333	328	332			427	12													50%
334	329	333			428	13	468												50%
335	330	334			429	14	469												50%
336	331	335			430	15													50%
337	332	336			431	16													50%
338	333	337			432	17													50%
339	334	338			433	18													50%
340	335	339			434	19													50%
341	336	340			435	20													50%
342	337	341			436	21													50%
343	338	342			437	22													50%
344	339	343			438	23													50%
345	340	344			439	24													50%

EOT # 468 TAPE MARKS
BOT # 469

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

CREW NO. 6834		LINE NO. 6	LEAVE TOWN/CAMP 7:00	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER CLEAR COOL	TRAIL CONDITIONS SHOULDER	DATE MONTH 4 DAY 16 YEAR 88	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			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					466	18											ARIZONA NAVAJO	
933		PULSE																	5 VIBS 100' SPACING	
934/935		EINT																	FIRST VIB 56' PAST FLAG	
936/939		DRD																	IN LINE 41.25' MOVE UP	
953/954		SUM																	8 SWEEPS 26 SECOND SWEEP 12-18HZ SWEEP PER	
960/961		NRT																	42 SEC RECORD LENGTH VIBS ON SHOULDER	
932		SIMILARITY																	4 MS SAMPLE RATE 62.5 HZ ALIAS FREQ	
302		WIND TEST STRIP																	NOISE DUE TO TRAFFIC ARIZ HWY 87	
303	301	305			400	240														
304	302	306			401	1														
305	303	307			402	2														
306	304	308			403	3	466													
308	305	309			404	4	467													
309	306	310			405	5														
310	307	311			406	6														
311	308	312			407	7														
312	309	313			408	8														
313	310	314			409	9														
314	311	315			410	10														
315	312	316			411	11														
316	313	317			412	12														
317	314	318			413	13														
318	315	319			414	14														
319	316	320			415	15														
320		WIND TEST STRIP					16	467												
																			EOT # 467 TAPE MARKS	
																			STOPPED WORK DUE TO EXCESS WIND	

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

GEO-252-D

CREW NO. 6834		LINE NO. 6		LEAVE TOWN/CAMP 7:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER CLEAR COOL		TRAIL CONDITIONS Hwy Shoulder		DATE MONTH 4 DAY 15 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						
271	272	276			371	31	464	48								5	8	50%	31/318			4		
272	273	277			372	32												50%						
273	274	278			373	33												50%						
274	275	279			374	34												50%						
275	276	280			375	35												50%						
276	277	281			376	36												50%						
277	278	282			377	37	464											50%						EOT # 464 TAPE MARKS
278	279	283			378	38	465											50%						BOT # 465
279	280	284			379	39												50%						
280	WIND TEST STRIP				40													60db						WIND VELOCITY INCREASED
281	281	285			380	40												60%						
282	282	286			381	41												50%						2ND HALF CULVERT
283	283	287			382	42												50%						
284	284	288			383	43												50%						
285	285	289			384	44												50%						
286	286	290			385	45												50%						
287	287	291			386	46												50%						
288	288	292			387	47												50%						
289	289	293			388	48												50%						
290	290	294			389	49												50%						
291	291	295			390	30	465											50%	337/338					NEW RECORDER LOCATION EOT# 465
292	292	296			391	31	466											60%						BOT # 466
293	293	297			392	32												50%						
294	294	298			393	33												50%						
295	295	299			394	34												50%						
296	296	300			395	35												50%						
297	297	301			396	36												50%						FILE # 297 BAD - PARITY
298	297	301			396	36												50%						
299	298	302			397	37												50%						
300	299	303			398	38												50%						
301	300	304			399	39												50%						4145

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

GEO-252-D

CREW NO. 6834		LINE NO. 6		LEAVE TOWN/CAMP 7:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER CLEAR Cool		TRAIL CONDITIONS SHOULDER		DATE MONTH 4 DAY 19 YEAR 86		CLIENT Co. Coel		OB Foreman 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	SIZE	TOP	BOT.	NO CAPS	U. H. I.	N. UNITS	NO. SUMS	DRIVE					
201	193	197			292	25	460	48								5	8	50%	294/245			4	
202	194	198			293	26												50%					
203	195	199			294	27												50%					
204	196	200			295	28												50%					
205	197	201			296	29												50%					
206	198	202			297	30												50%					
207	199	203			298	31												50%					
208	200	204			299	32												50%					
209	201	205			300	33												50%					
210	202	206			301	34												50%					
211	203	207			302	35												50%					
212	204	208			303	36												50%					
213	205	209			304	37												50%					
SKIP	206					38												SKIP					1ST HALF
SKIP	207					39												SKIP					206-208 SKIPPED FOR STORE & PIPE LINE
SKIP	208					40												SKIP					
214	WIND	TEST	STRIP			41												60db					
215	209	213			308	41	460											30%					2ND HALF EOT # 460 TAPE MARKS
216	210	214			309	42	461											50%					BOT # 461
217	211	215			310	43												50%					
218	212	216			311	44												50%					
219	213	217			312	45												50%					
220	214	218			313	46												50%					
221	215	219			314	47												50%					
222	216	220			315	48												50%					
SKIP	217																	SKIP					SKIP due to PIPELINE.
223	218	222			317	18												50%	276/277				LAST HALF NEW RECORDER LOCATION
224	219	223			318	19												50%					
225	220	224			319	20												50%					
226	221	225			320	21												50%					
227	222	226			321	22												50%					
228	223	227			322	23												50%					

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

GEO-252-D

CREW NO. 6834		LINE NO. 6		LEAVE TOWN/CAMP 7:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER CLEAR COOL		TRAIL CONDITIONS SHOULDER		DATE MONTH 4 DAY 17 YEAR 86		CLIENT CO 6 ORP		OB FOLLOWS 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	
229	224	228			323	24	461	48							5	8	50%	276/277				4	
230	225	229			324	25											50%						
231	226	230			325	26	461										50%						EOT # 461 TAPE MARKS
232	227	231			326	27	462										50%						BOT # 462
233	228	232			327	28											50%						
234	229	233			328	29											50%						
235	230	234			329	30											50%						
236	231	235			330	31											50%						
237	232	236			331	32											50%						
238	233	237			332	33											50%						
239	234	238			333	34											50%						
240	235	239			334	35											50%						
241	236	240			335	36											50%						2ND HALF
242	237	241			336	37											50%						
243	238	242			337	38											50%						
244	239	243			338	39											50%						
245	240	244			339	40											50%						
246	241	245			340	41	462										50%		9:45				EOT # 462 TAPE MARKS

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

GEO-252-D

CREW NO. 6834		LINE NO. 6	LEAVE TOWN/CAMP 7:00		ARRIVE TOWN/CAMP		TOTAL TR. TIME	DOWN TIME	WEATHER CLEAR COOL	TRAIL CONDITIONS SHT UNDER	DATE MONTH 4 DAY 10 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	
900	ALL ONES					1-6 SEC	450	48			BOT REEL # 450	5	8		120/121	4	5 VIBS	100' SPACING	1ST VIB 56' PAST FLAG				
933	PULSE					1-6 SEC					ACTIVE FIELD					230	1N LINE	8 SWEEPS	41.25' MOVE UP				
934/935	EI NT					2-6 SEC											12-48 HZ SWEEP FREQ	26 SEC SWEEP					
936/939	DR-D					4-6 SEC											42 SEC RECORD LENGTH	4MS SAMPLE RATE					
953/954	SUM					2-6 SEC											62.5 HZ ALIAS FREQ	VIBS ON SHOULDER.					
960/961	NRT					2-6 SEC											NOISE DUE TO TRAFFIC ON ARIZ HWY 87						
932	SIMILACITY					1-27 SEC					SIMILACITY TAKEN WITH CAMERA AT VIBS									30%			
49	WIND TEST STRIP					1															60db	8.95	
50	45	49				144	1														50%	9.00	
51	46	50				145	2														50%		
52	47	51				146	3														50%		
53	48	52				147	4														50%		
54	49	53				148	5														50%		
55	50	54				149	6														50%		
56	51	55				150	7														50%		
57	52	56				151	8														50%		
58	53	57				152	9														50%		
59	54	58				153	10														50%		
60	55	59				154	11														50%		
61	56	60				155	12														50%		
62	57	61				156	13														50%		
63	58	62				157	14				450										50%		EOT # 450 TAPE MARKS
64	59	63				158	15				451										50%		BOT # 451
65	60	64				159	16														50%		
66	61	65				160	17														50%		
SKIP	62																				SKIP		SKIPPED DUE TO DEEP SAND
67	63	67				162	1														50%	138/139	NEW RECORDER SETUP
68	64	68				163	2														50%		
69	65	69				164	3														50%		
70	66	70				165	4														50%		
71	67	71				166	5														50%		
72	68	72				167	6														50%		

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

GEO-252-D		CREW NO. 6834	LINE NO. 6	LEAVE TOWN/CAMP 7:00	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER CLEAR COOL	TRAIL CONDITIONS SHOULDER	DATE MONTH 4 DAY 10 YEAR 86	CLIENT COCORP	OB FOREMAN/MOORE	PM BINKS								
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				
73	69	73			168	7	451	48		MISSED SWEEPS					5	8	50%	138/139		4	
74	70	74			169	8											50%				
75	71	75			170	9											50%				
76	72	76			171	10											50%				
77	73	77			172	11											50%				
78	74	78			173	12											50%				
79	75	79			174	13	451										50%				EOT # 451 TAPE MARKS
80	76	80			175	14	452										50%				BOT # 452
81	77	81			176	15											50%				
82	78	82			177	16				Wind blast!!!							50%				
83	79	83			178	17											50%				
84	80	84			179	18											50%				
85	81	85			180	19								4			50%				VIB # 25865 BROKEN PAD BOLT
86	82	86			181	20											50%				1ST VIB STARTS 6' PAST FLAG
87	83	87			182	21											50%				
88	84	88			183	22											50%				
89	85	89			184	23											50%				
90	86	90			185	24											50%				
91	87	91			186	25											50%				
92	88	92			187	26											50%				
93	89	93			188	27											50%				
94	90	94			189	28											50%				
95	91	95			190	29	452										50%				EOT # 452 TAPE MARKS
96	92	96			191	30	453										50%				BOT # 453
97	93	97			192	31											50%				
98	94	98			193	32											50%				
99	95	99			194	33											50%				
100	96	100			195	34											50%				
101	97	101			196	35											50%				
102	98	102			197	36											50%				
103	WIND TEST STICK					37											60db				
104	99	103			198	37											50%				

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

CREW NO. 6834		LINE NO. 6		LEAVE TOWN/CAMP		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER CLEAR COOL		TRAIL CONDITIONS SHOULDER		DATE MONTH 4 DAY 9 YEAR 86		CLIENT COCORP		QB FORMAN/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					
33	32	36			131	32	449	48								5	8	50%	76/97		4	ARIZONA NAVAT	BOT # 449
34	33	37			132	33												50%					
35	34	38			133	34												50%					
36		WIND STRIP			35													60db					
37	35	39			134	35												50%					
38	36	40			135	36												50%					
39	37	41			136	37												50%					
40	38	42			137	38												50%					
41	39	43			138	39												50%					
42	40	44			139	40												50%					
43	41	45			140	41												50%					
44	42	46			141	42												50%					
45	43	47			142	43												50%					
46	44	48			143	44												50%					
47	43	47			142	43												50%					
48	44	48			143	44	449		EOT #449	TAPE	MACKS							50%		4:45			Summed MAINTENANCE ONLY



GEO-211-C

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

GENERAL	
Crew No. <u>6834</u>	Contract No. <u>799</u>
Client <u>COCORP</u>	
Area <u>Az</u>	
Country <u>Az</u>	
County <u>Navajo</u>	
Concession <u>Navajo</u>	
State <u>Az</u>	
Party Mgr. <u>Binns</u>	FOREMAN <u>OBJO MOORE</u>
Line No. <u>6</u>	Date Start of Line <u>4-9-86</u>
Sta. Int. <u>330'</u>	Feet Meters Fold <u>48%</u>
Spread Dimensions <u>1-31350'</u>	
VP's Increase	N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>

GEOPHONES	
Manufacture <u>MD-100's</u>	Array Length <u>322</u>
Frequency <u>8 Hz</u>	Array Width <u>14' IN LINE</u>
No. per string per trace <u>2 @ 12</u>	Array Across Between Sta Centered <input checked="" type="checkbox"/> <input type="checkbox"/>
Separation String Connected <input type="checkbox"/> <input checked="" type="checkbox"/>	Coil Res. <input type="checkbox"/> String Phone <input type="checkbox"/>
Connected at Sta <input type="checkbox"/> <input checked="" type="checkbox"/>	Shunt Res. <input checked="" type="checkbox"/> <input type="checkbox"/>
	Separation between elements in the array <u>14.34'</u>
	<u>14'</u>

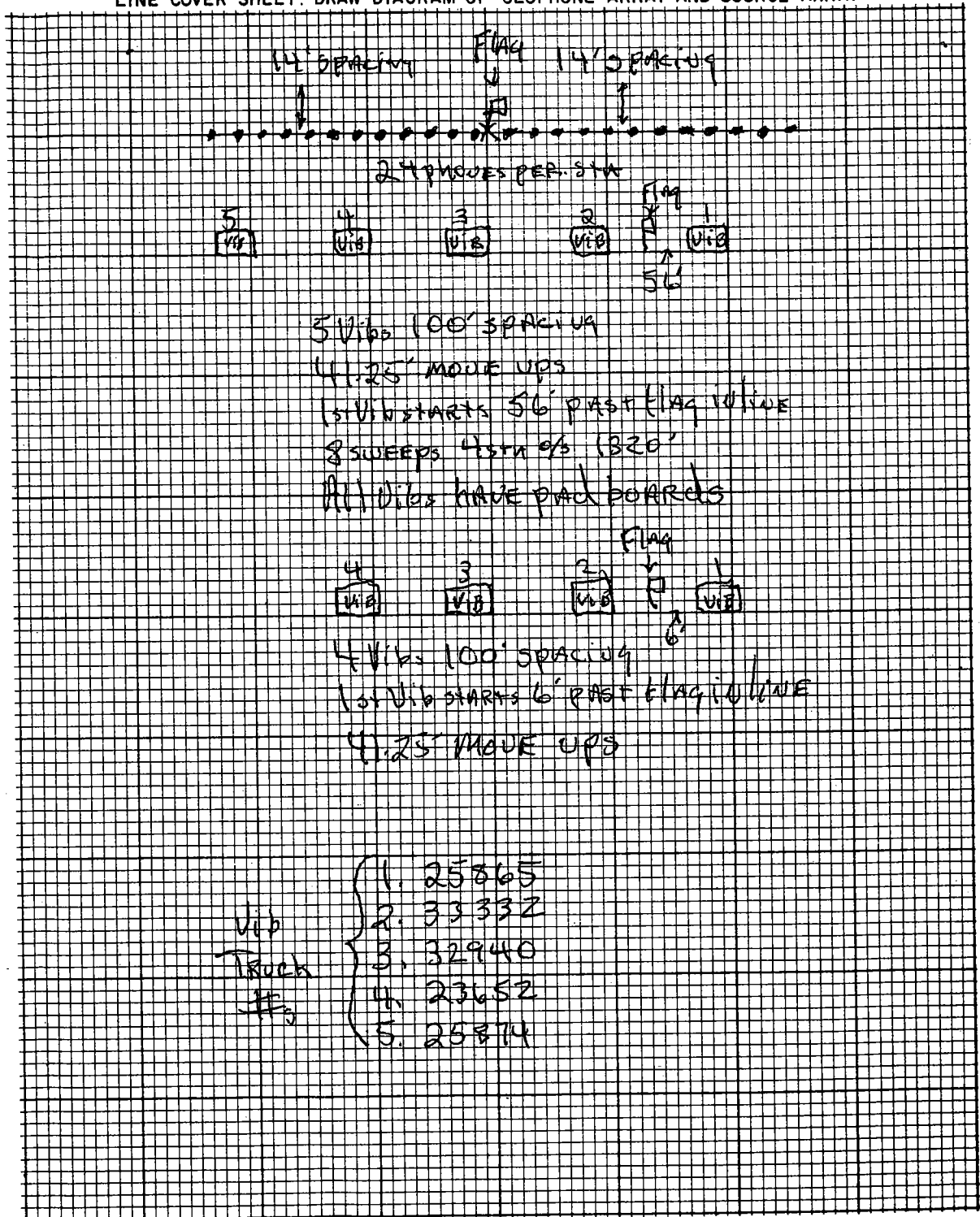
RECORDING SYSTEM	
Type:	<u>MD3-10</u>
Format:	<u>SEQ-13</u>
No. of Channels:	<u>96</u>
Sample Rate:	<u>4 ms</u>
Record Length:	<u>42 SEC</u>
BPI:	<u>1600</u>
Low-Cut Filter	Freq: <u>OUT</u> Slope: <u>OUT</u>
High-Cut Filter	Freq: <u>62.5 Hz</u> Slope:
Static Filter	In <input type="checkbox"/> Out <input 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 # 25A10050</u> <u>11 #4 11 52</u>

ENERGY SOURCE	
Type:	<u>5 Y-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> Feet Meters
	No. of drops, sweeps, etc. in array:	<u>8 SWEEPS</u>
	Sweep Freq:	<u>12.748 Hz</u>
	Sweep Length:	<u>26 SEC</u>
	Unit Separation:	<u>100'</u> Feet Meters
	Unit Moveup:	<u>41.25'</u> Feet Meters
Array Centered:	Across Sta <input checked="" type="checkbox"/> Between Sta <input type="checkbox"/>	

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



REMARKS: Air Gun Delay, etc.

VARI SOURCE USED Yes No Invalid Channels: