

OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER

Exploration Services  
Division  
Geosource Inc.

CLIENT <b>COCORP</b>		AREA <b>Kansas</b>			STATE <b>Kansas</b>		COUNTY <b>Riley</b>		DATE <b>6-20-81</b>			
CREW NO. <b>6839</b>		TERRAIN <b>Dirt Road Rolling Hills</b>			WEATHER <b>Partly Cloudy &amp; Windy</b>				LINE NO. <b>4</b>			
REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F I L T E R			RE MARKS		
							LOCUT	60 ~	AMP			
1	933	Pulse	1 - 6 sec			408	OUT	IN		Recorder set AT 56-57		
2	934/935	EINT	2 - " "							Bot # 408 # 900 10sec All ones.		
3	936/939	DR.D.	4 - " "							B.O.L. #4 Vib's are Pushing line.		
4	953/954	Sum TEST	2 - " "									
5	960/961	N.R.S. TEST	2 - " "									
6	932	Similarity	1 - 31 sec	225	5				50%			
7	001	Wind Strip	1 - 6 sec	21								
8	002	1	5 - 100	21	4					50% Vib # 14256 Down.		
9	003	2	6 - 101	22						70% Station # 100-101 OFF set 995' east.		
10										vib # 16344 Down with bad ATF leak.		
11										and brake bolt on colluma.		
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
TOTAL SETUPS		TOTAL SWEEPS		TOTAL COVERAGE			TOTAL FIELD TIME		DRIVING TIME		SYSTEM NO.	
SWEEP FREQUENCY 8 → 32 Hz / 31 sec		SWEEP PATTERN 4163		SWEEPS PER PATTERN 8			SWEEP PATTERNS PER SETUP 1		PATCH PATTERN           222     222			
GEOPHONES PER PATCH 24		NO. OF RECORDING PATCHES 96		TYPE VIBRATOR 4-Y 11005 1-Y 900		TYPE GEOPHONE ETL EV22B		FREQUENCY 7.5 Hz		STATION INTERVAL 330'		LINE DIR. 1 TO 24 S → N
REMARKS 8ms Sample Rate / 51sec Record Length					OBSERVER R. Patton J Wings			PARTY MGR. L. Davis				

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DIGITAL VIBROSEIS RECORDER

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Geosource Inc.

CLIENT <b>Cocorp</b>		AREA <b>Kansas</b>		STATE <b>Kansas</b>		COUNTY <b>Riley</b>		DATE <b>6-23-81</b>			
CREW NO. <b>6834</b>		TERRAIN <b>Dirt Road + Rolling Hills</b>		WEATHER <b>Partly Cloudy + Wet + Windy</b>		LINE NO. <b>4</b>					
REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	F LOCUT	L T E R 60 ~	REMARKS		
1	933	Pulse	1 - 6 sec			408	OUT	IN	Recorder set RT 56-57.		
2	934/935	EINT	2 - " "						Re walked the line Replanted All Jugs.		
3	936/939	D.R.D.	4 - " "						Vib #12667 went down during Sims. Had to wait on part for Vib #14256 which was down earlier.		
4	953/954	Sum TEST	2 - " "						Vib #12667 Down. Problem with back Hydraulic		
5	960/961	NRT TEST	2 - " "								
6	932	Similarity	1 - 31 sec	225	4			50%			
7	004	Wind strip	1 - 6 sec	23							
8	005	3	7 - 102	23				70%			
9	006	4	8 - 103	24				70%			
10	007	5	9 - 104	25				70%			
11	008	6	10 - 105	26				70%			
12	009	7	11 - 106	27				70%			
13	010	8	12 - 107	28				70%			
14	011	9	13 - 108	29		408		70%	E.D.T. Tape MKTS. #408		
15	013	10	14 - 109	30		409		70%	B.D.T. #409 900 10 sec. All ones. # 012 6 sec. Wind Strip		
16	014	11	15 - 110	31				70%			
17	015	12	16 - 111	32				70%			
18	016	13	17 - 112	33				70%			
19									Finished For The Day.		
20											
21											
22											
23											
24											
25											
TOTAL SETUPS		TOTAL SWEEPS		TOTAL COVERAGE		TOTAL FIELD TIME		DRIVING TIME		SYSTEM NO. <b>MDS-10</b>	
SWEEP FREQUENCY <b>8 → 32 Hz / 31 sec</b>		SWEEP PATTERN <b>4163</b>		SWEEPS PER PATTERN <b>8</b>		SWEEP PATTERNS PER SETUP <b>1</b>		PATCH PATTERN <b>      222   222        </b>			
GEOPHONES PER PATCH <b>24</b>		NO. OF RECORDING PATCHES <b>96</b>		TYPE VIBRATOR <b>4 - 1100's</b>		TYPE GEOPHONE <b>1 - 1 900</b>		FREQUENCY <b>ETL EV22B 7.5 Hz</b>		STATION INTERVAL <b>3.30'</b>	
REMARKS <b>8ms Sample Rate / 51 sec Record Length</b>		OBSERVER <b>R. Patton J. Zuinga</b>		PARTY MGR. <b>L. Davis</b>							

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DIGITAL VIBROSEIS RECORDER

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CLIENT <b>COCORP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Riley + Marshall</b>	DATE <b>6-24-80</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road Rolling Hills</b>	WEATHER <b>Clear + Windy</b>	LINE NO. <b>4</b>	

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	F I L T E R			REMARKS
							LOCUT	60 ~	AMP	
1	933	Pulse	1 - 6 sec			409	OUT	IN		Recorder SET AT 68-69
2	934/935	EINT	2 - " "							
3	936/939	DRD.	4 - " "							Station #100-101 offset 995' east.
4	953/954	Sum TEST	2 - " "							
5	960/961	NR TEST	2 - " "							Vib #12667 Down Problem with mass, went Center.
6	932	Similarity	1 - 31 sec	225	4'					50%
7	017	Wind Strip	1 - 6 sec	22						
8	018	14	18 - 113	22						70%
9	019	15	19 - 114	23						70%
10	020	16	20 - 115	24						70%
11	021	17	21 - 116	25						50% Stacked 1st half due to water well.
12	022	18	22 - 117	26						70% Stacked 2nd half?
13	023	19	23 - 118	27						70%
14	024	20	24 - 119	28		409				70% E.O.T. #409 Tape MKT3.
15	026	21	25 - 120	29		410				70% B.O.T. #410 #90 10 sec. All ones #25 to sec. Wind Strip
16	027	22	26 - 121	30						70% On V.P. #21 CDP off position should be 29.
17	028	23	27 - 122	31						70%
18	029	24	28 - 123	32						70%
19	030	25	29 - 124	33						70%
20	031	26	30 - 125	34						50% Stacked 1st half.
21	Skip	27	31 - 126	35						Skip due to High pressure pipeline.
22	Skip	28	32 - 127	36						Skip
23	032	29	33 - 128	37						50%
24	033	30	34 - 129	38						70%
25	034	31	35 - 130	39						50% Stacked 1st half due to water well.

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8 → 32Hz / 31 sec	SWEEP PATTERN 4/63	SWEEPS PER PATTERN 8	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN 11111222 112221111	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4 - Y 1100's 1 - Y 900	TYPE GEOPHONE ETL EV 228	FREQUENCY 7.5Hz	STATION INTERVAL 330'
REMARKS 8ms Sample Rate / 51 sec. Record Length	OBSERVER R. Patton	PARTY MGR. J Wingo.	LINE DIR. 1 TO 24 S → N		

OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER

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CLIENT		AREA			STATE		COUNTY		DATE		
COCORP		Kansas			Kansas		Riley + Marshall		6/24/81		
CREW NO.		TERRAIN			WEATHER				LINE NO.		
68.34		Rolling Hills			Clear + Windy				4		
REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	F I L T E R			REMARKS	
							LOCUT	80 ~	AMP		
1	SKIP	32	36-131	40	4	410	DCT	FN	SKIP	Due to water well.	
2	035	33	37-132	41					50%		
3	036	34	38-133	42					70%		
4	037	35	39-134	43					70%		
5	038	36	40-135	44		410			70%	EOT * 410 Tape MKTS	
6	040	37	41-136	45		411			70%	BOT * 411 * 900 10 sec All ones. * 039 6 sec wind strip.	
7	041	38	42-137	46					70%		
8	042	39	43-138	47					70%		
9	043	40	44-139	48					70%		
10	044	41	45-140	49					70%		
11	SKIP	42	46-141	31					SKIP	Due to house's Moved Recorder to 87-88	
12	SKIP	43	47-142	32					SKIP	Due to house's	
13	045	44	48-143	33					70%	Stacked last half.	
14	046	45	49-144	34					70%		
15	047	46	50-145	35					70%		
16	048	47	51-146	36					70%		
17	049	48	52-147	37					50%	Stacked 1st half.	
18	SKIP	49	53-148	38					SKIP	Due to house	
19	SKIP	50	54-149	39					SKIP	" " "	
20	050	51	55-150	40					50%		
21	051	52	56-151	41		411			50%	EOT * 411 Tape MKTS.	
22	SKIP	53	57-152	42					SKIP	Due to water well.	
23										Finished For the Day.	
24											
25											
TOTAL SETUPS		TOTAL SWEEPS		TOTAL COVERAGE			TOTAL FIELD TIME		DRIVING TIME		SYSTEM NO.
SWEEP FREQUENCY		SWEEP PATTERN		SWEEPS PER PATTERN			SWEEP PATTERNS PER SETUP		PATCH PATTERN		
GEOPHONES PER PATCH		NO. OF RECORDING PATCHES		TYPE VIBRATOR		TYPE GEOPHONE		FREQUENCY		STATION INTERVAL	
REMARKS		OBSERVER			PARTY MGR.						

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DIGITAL VIBROSEIS RECORDER

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CLIENT Cocorp	AREA Kansas	STATE Kansas	COUNTY Riley + Marshall	DATE 6-25-81
CREW NO. 6834	TERRAIN Dirt Road Rolling Hills	WEATHER Clear + Windy		LINE NO. 4

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	F I L T E R			RE MARKS
							LOCUT	80 ~	AMP	
1 933	Pulse	1 - 6 sec				412	OUT	IN		Bot * 412 * 900 10 sec All ones.
2 934/935	EPNT	2 - " "								Recorder set AT 112-113
3 936/939	D.R.D.	4 - " "								
4 953/954	Sum TEST	2 - " "								
5 960/961	N.R.S TEST	2 - " "								
6 932	Simpharity	1 - 31 sec	225	4						50%
7 052	Wind STXP	1 - 6 sec	18							
8 053	54	58 - 153	18	4						50% stacked last half
9 054	55	59 - 154	19							70%
10										Having to shut down due to Vib #126666
11										Recorder going out.
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8 → 32 Hz / 31 sec	SWEEP PATTERN 4/163	SWEEPS PER PATTERN 8	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN 11111 222 1 <sup>k</sup> 222 1111	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4 - 11005 1 - 1900	TYPE GEOPHONE ETL EV22B	FREQUENCY 7.5 Hz	STATION INTERVAL 330'
REMARKS 8ms Sample Rate 1/51 sec Record Length	OBSERVER R. Patton - J. Wings	PARTY MGR. F. Davis	LINE DIR. 1 TO 24 S → N		

OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER

Exploration Services  
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Geosource Inc.

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CLIENT COCORP		AREA Kansas		STATE Kansas		COUNTY Riley + Marshall		DATE 6-28-81		
CREW NO. 6834		TERRAIN Dirt Road Rolling Hills		WEATHER Clear + Windy				LINE NO. 4		
REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	F I L T E R			REMARKS
							LOCUT	60 ~	AMP	
1	933	Pulse	1 - 6 sec			412	OUT	IN		Recorder set AT 112-113
2	934/935	FINT	2 - " "							From STA's *100- *101 995' offset East.
3	936/939	D.R.D.	4 - " "							
4	953/954	Scum TEST	2 - " "							
5	960/961	NRT TEST	2 - " "							
6	932	Similarity	1 - 31 sec	225	5					50%
7	055	Wind strip	1 - 6 sec	20						
8	056	56	60 - 155	20	5					70%
9	057	57	61 - 156	21						70%
10	058	58	62 - 157	22						70%
11	059	59	63 - 158	23						70%
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
TOTAL SETUPS		TOTAL SWEEPS		TOTAL COVERAGE		TOTAL FIELD TIME		DRIVING TIME		SYSTEM NO.
SWEEP FREQUENCY 8 → 3242 / 31 sec		SWEEP PATTERN 4/16.3		SWEEPS PER PATTERN 8		SWEEP PATTERNS PER SETUP 1		PATCH PATTERN 11111222 1 <sup>x</sup> 12221111		
GEOPHONES PER PATCH 24		NO. OF RECORDING PATCHES 96		TYPE VIBRATOR 4-Y11005 1-Y900		TYPE GEOPHONE ETL EV22R		FREQUENCY 7.5Hz		STATION INTERVAL 330'
REMARKS 8ms Sample Rate / 51 sec Record Length		OBSERVER R. Patton		PARTY MGR. J. Wingo		L. Davis		LINE DIR. 1 TO 24 S → N		

Shutting down due to Wind gusting 25-30mph.

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DIGITAL VIBROSEIS RECORDER

Exploration Services  
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CLIENT COCORP		AREA Kansas		STATE Kansas		COUNTY Riley + Marshall		DATE 6-29-81			
CREW NO. 6834		TERRAIN Dirt Road Rolling Hills		WEATHER Partly Cloudy + Wet.				LINE NO. 4			
REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	F LOCUT	L T E R 80 ~	REMARKS		
1	933 Pulse	1 - 6 sec				412	OUT	IN	Recorder set At 129-130		
2	933/935 EINT	2 - " "							From STA: 100-101 995' OFFSET East.		
3	936/939 D.R.D	4 - " "									
4	953/954 Sum TEST	2 - " "									
5	960/961 N. R.T. TEST	2 - " "									
6	932 Similarity	1 - 31 sec	225	5		412			50% Eat * 412 tape MKTs		
7	060 Wind strip	1 - 6 sec	7			413			Bot * 413 * 900 10 sec All ones.		
8	061 60	64 - 159	7	4					50% Stacked 1st half? Vib 12666 off line repairing Air		
9	Skip 61	65 - 160	8						due to house. bags		
10	Skip 62	66 - 161	9						" " "		
11	062 63	67 - 162	10						50%		
12	063 64	68 - 163	11	5					50% Stacked 1st half? Vib # 12666 on Line.		
13	Skip 65	69 - 164	12						Skip due to house.		
14	064 66	70 - 165	13	4					50% Stacked 2nd half? Vib # 14256 off line having		
15	065 67	71 - 166	14						pad Legs welded.		
16	Skip 68	72 - 167	15						Skip due to School.		
17	Skip 69	73 - 168	16						" " "		
18	066 70	74 - 169	17						70%		
19	067 71	75 - 170	18						70%		
20	068 72	76 - 171	19						70%		
21	069 73	77 - 172	20						70%		
22	070 74	78 - 173	21						70% Wind picking up, bring in dark clouds		
23	071 75	79 - 174	22						and getting Flicks on scope. Standing by.		
24	072 76	80 - 175	23						70%		
25	073 77	81 - 176	24						70% E.O.T. # 413 Finished For The Day		
TOTAL SETUPS		TOTAL SWEEPS		TOTAL COVERAGE		TOTAL FIELD TIME		DRIVING TIME		SYSTEM NO. MDS-10	
SWEEP FREQUENCY 8 → 32Hz / 31sec		SWEEP PATTERN 4163		SWEEPS PER PATTERN 8		SWEEP PATTERNS PER SETUP 1		PATCH PATTERN 11111222112221111			
GEOPHONES PER PATCH 24		NO. OF RECORDING PATCHES 96		TYPE VIBRATOR 4-Y 1100s 1-Y 900		TYPE GEOPHONE ETL EV22B		FREQUENCY 7.5Hz		STATION INTERVAL 330'	
REMARKS 8 ms Sample Rate / 51sec Record Length		OBSERVER R. Patton		PARTY MGR. J Wings		L. Davis					

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DIGITAL VIBROSEIS RECORDER

Exploration Services  
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Geosource Inc.

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CLIENT <b>COCORP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Riley &amp; Marshall</b>	DATE <b>6/30/81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road &amp; Rolling Hills</b>	WEATHER <b>Cloudy &amp; wet</b>	LINE NO. <b>4</b>	

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	F L T E R			REMARKS
							LOCUT	80 ~	AMP	
1	933 Pulse	1-6sec.				414	OUT	IN		Recorder set at 146-147 B.O.T. #414
2	<del>934</del> 935 E.I.M.T.	2- " "								900 10sec. All ones.
3	<del>936</del> 937 D.R.D.	4- " "								
4	<del>953</del> 954 Sum Test	2- " "								
5	<del>960</del> 961 N.R.J. Test	2- " "								
6	932 Similarity	1-31sec.	225	5						50%
7	074 Wind Strip	1-6sec.	8							
8	075 78	82-177	8							70%
9	076 79	83-178	9							70%
10	077 80	84-179	10							70%
11	078 81	85-180	11							70% Stacked 1 <sup>st</sup> half!
12	5Kip 82	86-181	12							5Kip due to Cemetery
13	079 83	87-182	13							50% Stacked 2 <sup>nd</sup> half!
14	080 84	88-183	14							70%
15	081 85	89-184	15							70%
16	082 86	90-185	16							70%
17	083 87	91-186	17	4						70% Vib #14256 down temp. Radio Problem.
18	084 88	92-187	18							70% E.O.T. #414 Tape MKTS. on VP 89
19	085 89	93-188	19			414				70% Stack 1 <sup>st</sup> half!
20	086 90	94-189	20			415				70% B.O.T. #415 *900 10 sec. All ones. #085 6sec. Wind Strip.
21	087 91	95-190	21							70% Note: File #085 Last Record on Tape #414. By mistake
22	088 92	96-191	22							70% File #085 was set in on B.O.T. #415.
23	089 93	97-192	23							70%
24	090 94	98-193	24							70%
25	091 95	99-194	25							70%

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <b>MDS-10</b>
SWEEP FREQUENCY <b>8-32 Hz. / 31 sec.</b>	SWEEP PATTERN <b>4/63</b>	SWEEPS PER PATTERN <b>8</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN <b>11111222T2221111</b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>4-V1100's 1-V900</b>	TYPE GEOPHONE <b>ETLEU22B</b>	FREQUENCY <b>7.5 Hz.</b>	STATION INTERVAL <b>330'</b>
REMARKS <b>Bms. Sample Rate 15/sec. Record</b>	OBSERVER <b>R. Patton / J. Wingo</b>	PARTY MGR. <b>J. Davis</b>	LINE DIR. <b>1 TO 24 S → N</b>		

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Exploration Services  
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CLIENT <b>COCORP</b>		AREA <b>Kansas</b>		STATE <b>Kansas</b>		COUNTY <b>Riley + Marshall</b>		DATE <b>6/20/81</b>		
CREW NO. <b>6834</b>		TERRAIN <b>Rolling Hills</b>		WEATHER <b>cloudy + wet</b>				LINE NO. <b>4</b>		
REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	F I L T E R			RE MARKS
							LOCUT	60 ~	AMP	
1	092	96	100-195	26	4	415	OUT	IN	70%	
2	093	97	101-196	27					70%	
3	094	98	102-197	28					70%	
4	095	99	103-198	29					70%	
5	096	100	104-199	30					70%	
6	097	101	105-200	31					70%	
7	098	102	106-201	32		415			70%	E.D.T #415 Tape MKTS.
8	100	103	107-202	33		416			70%	B.O.T #416 #900 10sec. Allones. #099 6sec. Wind Strip
9	101	104	108-203	34					70%	
10	102	105	109-204	35					70%	
11	103	106	110-205	36					70%	
12	104	107	111-206	37					70%	
13	105	108	112-207	38					70%	
14	106	109	113-208	39					70%	Station #208 open due to bridge.
15	107	110	114-209	40					70%	
16	108	111	115-210	41					70%	
17	109	112	116-211	42					70%	
18										Finished For The Day.
19										
20										
21										
22										
23										
24										
25										
TOTAL SETUPS		TOTAL SWEEPS		TOTAL COVERAGE		TOTAL FIELD TIME		DRIVING TIME		SYSTEM NO.
SWEEP FREQUENCY		SWEEP PATTERN		SWEEPS PER PATTERN		SWEEP PATTERNS PER SETUP		PATCH PATTERN		
GEOPHONES PER PATCH		NO. OF RECORDING PATCHES		TYPE VIBRATOR		TYPE GEOPHONE		FREQUENCY		STATION INTERVAL
REMARKS						OBSERVER		PARTY MOR.		

OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER

Exploration Services 10  
Division  
Geosource Inc.

CLIENT <b>COCORP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Riley + Marshall</b>	DATE <b>7/1/81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road + Rolling Hills</b>	WEATHER <b>Clear To Partly Cloudy</b>	LINE NO. <b>4</b>	

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	F I L T E R			RE MARKS
							LOCUT	60 ~	AMP	
1	933 Pulse	1 - 6 sec.				416				Recorder Set at 188-189
2	<del>934</del> E.I.N.T	2 - " "								
3	<del>936</del> D.R.D.	4 - " "								Station #208 open due to bridge.
4	<del>939</del> SunTEST	2 - " "								
5	<del>953</del> N.R.D. TEST	2 - " "								
6	932 Similarity	1 - 31 sec.	225	5		416			50%	E.D.T. #416 TAPE MKTS.
7	110 Wind Strip	1 - 6 sec.	1			417				B.D.T. #417 #900 All ones.
8	111 113	117 - 212	1						70%	
9	112 114	118 - 213	2						70%	
10	113 115	119 - 214	3	4					70%	Vib #12667 down.
11	114 116	120 - 215	4						70%	
12	115 117	121 - 216	5	4					70%	Vib #12667 on line. Vib #14256 off line.
13	116 118	122 - 217	6						70%	
14	117 119	123 - 218	7						70%	
15	118 120	124 - 219	8						70%	
16	119 121	125 - 220	9						70%	
17	120 122	126 - 221	10						70%	
18	121 123	127 - 222	11						70%	
19	122 124	128 - 223	12						70%	
20	123 125	129 - 224	13			417			70%	E.D.T. #417 TAPE MKTS.
21	124 126	130 - 225	14			418			70%	B.D.T. #418 #900 10 sec. All ones #124 6 sec. Wind
22	125 127	131 - 226	15						70%	Strip
23	126 128	132 - 227	16						70%	Vib #16344 Down
24										
25										

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <b>MD5-10</b>
SWEEP FREQUENCY <b>8 → 32 Hz / 31 sec.</b>	SWEEP PATTERN <b>4163</b>	SWEEPS PER PATTERN <b>8</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN <b>1111122212221111</b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>4-V1100's 1-V900</b>	TYPE GEOPHONE <b>ETLEVR2B</b>	FREQUENCY <b>7.5 Hz.</b>	STATION INTERVAL <b>330'</b>
REMARKS <b>8ms. Sample Rate / 51 sec. Record</b>			OBSERVER <b>J. Wings</b>	PARTY MGR. <b>Z. Davis</b>	

OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER

Exploration Services  
Division  
Geosource Inc.

CLIENT		AREA		STATE	COUNTY	DATE				
COCORP		Kansas		Kansas	Marshall	7/2/81				
CREW NO.		TERRAIN	WEATHER		LINE NO.					
6834		Dirt Road + Rolling Hills	Partly Cloudy		4					
REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB.	AMP GAIN	TAPE RL. NO.	F I L T E R		REMARKS	
							LOCUT	60 ~	AMP	
1	933	Pulse	1-6sec.			418	OUT	TN		Recorder Set at
2	<del>934</del> 935	EINT	2-...							
3	<del>936</del> 939	D.R.D.	4-...							
4	<del>953</del> 954	Sum Test	2-...							
5	<del>960</del> 961	N.R.T. Test	2-...							
6	932	Similarity	1-31sec.	225	4				50%	Vib # 12666 out Insts.
7	127	Wind Strip	1-6sec.	8						
8	128	129	133-228	8					70%	
9	129	130	134-229	9					70%	
10	130	131	135-230	10					70%	
11	131	132	136-231	11					70%	
12	132	133	137-232	12					70%	
13	133	134	138-233	13					70%	
14	134	135	139-234	14		418			70%	E.O.T. #418 TAPE MKTS.
15	136	136	140-235	15		419			70%	B.O.T. #419 *900 10sec. ALL ONES. #135 6 sec.
16	137	137	141-236	16					70%	Wind Strip
17	138	138	142-237	17					70%	
18	139	139	143-238	18					70%	
19	140	140	144-239	19					70%	
20	141	141	145-240	20					70%	
21	142	142	146-241	21					70%	
22	143	143	147-242	22					70%	
23	144	144	148-243	23					70%	
24	145	145	149-244	24					70%	
25	146	146	150-245	25					70%	
TOTAL SETUPS		TOTAL SWEEPS		TOTAL COVERAGE		TOTAL FIELD TIME		DRIVING TIME		SYSTEM NO.
										MDS-10
SWEEP FREQUENCY		SWEEP PATTERN		SWEEPS PER PATTERN		SWEEP PATTERNS PER SETUP		PATCH PATTERN		
8-32Hz / 3/sec		4163		8		1		111122212221111		
GEOPHONES PER PATCH		NO. OF RECORDING PATCHES		TYPE VIBRATOR		TYPE GEOPHONE		FREQUENCY		STATION INTERVAL
24		96		4-1100'S 1-1900		ETLEV22B		7.5Hz		330'
REMARKS		OBSERVER		PARTY MGR.						
ems. Sample Rate 1/51 sec. Record		J. Wingo		L. Davis						

OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER

Exploration Services  
Division  
Geosource Inc.

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CLIENT		AREA		STATE		COUNTY		DATE		
COCORP		Kansas		Kansas		Marshall		7/2/81		
CREW NO.		TERRAIN		WEATHER				LINE NO.		
6834		Rolling Hills		Partly cloudy				4		
REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	F I L T E R			RE MARKS
							LOCUT	60 ~	AMP	
1	147	151-246	26	4		419	OUT	IN	70%	
2	148	152-247	27			419			70%	E.O.T. #419 TAPE MKTS.
3	150	153-248	28			420			70%	B.O.T. #418. #900 10 sec. ALL ONES. #149 6 sec.
4	151	154-249	29						70%	Wind Strip.
5	152	155-250	30						70%	
6	153	156-251	31						70%	
7	154	157-252	32						70%	Finished For The Day.
8										
9										
10										
11										
12										
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22										
23										
24										
25										
TOTAL SETUPS		TOTAL SWEEPS		TOTAL COVERAGE		TOTAL FIELD TIME		DRIVING TIME		SYSTEM NO.
SWEEP FREQUENCY		SWEEP PATTERN		SWEEPS PER PATTERN		SWEEP PATTERNS PER SETUP		PATCH PATTERN		
GEOPHONES PER PATCH		NO. OF RECORDING PATCHES		TYPE VIBRATOR		TYPE GEOPHONE		FREQUENCY		STATION INTERVAL
REMARKS						OBSERVER		PARTY MGR.		

OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER

Exploration Services  
Division  
Geosource Inc.

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CLIENT Cocopp	AREA Kansas	STATE Kansas	COUNTY Marshall	DATE 7-6-81
CREW NO. 6834	TERRAIN Dist Road Rolling Hills	WEATHER Clear & wet	LINE NO. 4	

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER			REMARKS
							LOCUT	60 ~	AMP	
1 933	Pulse	1 - 6 sec				420	OUT	IN		Recorder set RT 227-228
2 934/935	ERT	2 - " "								STA's * 208 Dead due to Bridge.
3 936/939	D.R.D.	4 - " "								He walked line Replanted All Jugs.
4 953/954	Sum TEST	2 - " "								
5 960/961	N.R.T. TEST	2 - " "								Wib * 12666 Down INSTR. Problem.
6 932	Similarity	1 - 31 sec	225	4					50%	
7 155	Windstrip	1 - 6 sec	3							
8 156	154	158 - 253	3						70%	
9 157	155	159 - 254	4						70%	
10 158	156	160 - 255	5						70%	
11 159	157	161 - 256	6						70%	
12 160	158	162 - 257	7			420			70%	EOT * 420 Tape MKTs.
13 162	159	163 - 258	8			421			70%	BOT * 421 * 900 10 sec All axes * 161 6 sec wind strip.
14 163	160	164 - 259	9						70%	
15 164	161	165 - 260	10						70%	
16 165	162	166 - 261	11						70%	
17 166	163	167 - 262	12						70%	
18 167	164	168 - 263	13						70%	
19 168	165	169 - 264	14						70%	
20 169	166	170 - 265	15						70%	
21 170	167	171 - 266	16						70%	
22 171	168	172 - 267	17						70%	
23 172	169	173 - 268	18						70%	
24 173	170	174 - 269	19						70%	
25 174	171	175 - 270	20			421			70%	EOT * 421 Tape MKTs.

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8 → 32 Hz / 31 sec	SWEEP PATTERN 4/63	SWEEPS PER PATTERN 8	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN 111112221 <sup>x</sup> 122211111	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-Y 1100's 1-Y 900	TYPE GEOPHONE ETLEV 22B	FREQUENCY 7.5 Hz	STATION INTERVAL 330'
REMARKS 8 ms sample rate / 51 sec Record length	OBSERVER R. Patton	PARTY MGR. L. Davis	LINE DIR. 1 TO 24 S → N		

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc.

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CLIENT <b>COCORP</b>		AREA <b>Kansas</b>			STATE <b>Kansas</b>		COUNTY <b>Marshall</b>		DATE <b>7-6-81</b>		
CREW NO. <b>6834</b>		TERRAIN <b>Dirt Road Rolling Hills</b>			WEATHER <b>Partly Cloudy</b>				LINE NO. <b>4</b>		
REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F I L T E R			RE MARKS	
							LOCUT	60 ~	AMP		
1	176	176-271	21	4		422	OUT	IN	70%	BOT * 422 * 900 10 sec All ones * 175 6 sec wind strip.	
2	177	177-272	22						70%	STA's * 272 Dead due to Bridge.	
3	178	178-273	23						70%		
4	179	179-274	24						70%		
5										Finished For The Day.	
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22											
23											
24											
25											
TOTAL SETUPS		TOTAL SWEEPS		TOTAL COVERAGE			TOTAL FIELD TIME		DRIVING TIME		SYSTEM NO.
SWEEP FREQUENCY		SWEEP PATTERN		SWEEPS PER PATTERN			SWEEP PATTERNS PER SETUP		PATCH PATTERN		
GEOPHONES PER PATCH		NO. OF RECORDING PATCHES		TYPE VIBRATOR		TYPE GEOPHONE		FREQUENCY		STATION INTERVAL	LINE DIR. 1 TO 24
REMARKS						OBSERVER			PARTY MGR.		

OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER

Exploration Services  
Division  
Geosource Inc.

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CLIENT Cocorp		AREA Kansas		STATE Kansas		COUNTY Marshall		DATE 7-7-81		
CREW NO. 6834		TERRAIN Dirt Road Rolling Hills		WEATHER Clear + windy		LINE NO. 4				
REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER			REMARKS
							LOCUT	60 ~	AMP	
1	933	Pulse	1 - 6 sec			422	OUT	IN		Recorder set AT 250-251
2	934/935	EINT	2 - " "							STA's # 208 + 272 Both open due to Bridges.
3	936/939	D.R.D.	4 - " "							
4	953/954	Sum TEST	2 - " "							
5	969/961	NRT TEST	2 - " "							Vib * 14256 Down INST. Problem.
6	932	Similarity	1 - 31 sec	225	4				50%	
7	180	Wind strip	1 - 6 sec	2						
8	SKIP	176	180 - 275	2					70%	Skip Due to Bridges.
9	181	177	181 - 276	3	4				70%	Stacked last half.
10	182	178	182 - 277	4					70%	
11	183	179	183 - 278	5					70%	
12	184	180	184 - 279	6					70%	Wind picking up.
13	185	181	185 - 280	7					70%	had to replace jugs on STA's * 215 & Reconnect
14	186	182	186 - 281	8					70%	Cables unhooked by Grader. Then a combine
15	187	183	187 - 282	9		422			70%	pulled up the line AT # 215 TOSE UP ABOUT 4
16	189	184	188 - 283	10		423			70%	Cables. Also pulled up jugs. UP * 183 EOT * 422.
17	190	185	189 - 284	11					70%	UP * 184 Bot * 423 * 900 10 sec All ones. * 188 6 sec wind strip
18	191	186	190 - 285	12					70%	
19	192	187	191 - 286	13					70%	
20	193	188	192 - 287	14					70%	
21	194	189	193 - 288	15					70%	
22	195	190	194 - 289	16					70%	
23	196	191	195 - 290	17					70%	
24	197	192	196 - 291	18					70%	
25	198	193	197 - 292	19					70%	
TOTAL SETUPS		TOTAL SWEEPS		TOTAL COVERAGE		TOTAL FIELD TIME		DRIVING TIME		SYSTEM NO.
SWEEP FREQUENCY 8 → 32 Hz / 31 sec		SWEEP PATTERN 4163		SWEEPS PER PATTERN 8		SWEEP PATTERNS PER SETUP 1		PATCH PATTERN 111112221122211111		
GEOPHONES PER PATCH 24		NO. OF RECORDING PATCHES 96		TYPE VIBRATOR 4-4 1100 1-4 900		TYPE GEOPHONE ETL EV22B		FREQUENCY 7.5 Hz		STATION INTERVAL 330'
REMARKS 8ms sample rate / 51 sec Record length		OBSERVER K. Patton		PARTY MGR. L. Davis						

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division  
Geosource Inc.**

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CLIENT <b>Cocopp</b>		AREA <b>Kansas</b>			STATE <b>Kansas</b>		COUNTY <b>Marshall</b>		DATE <b>7-7-81</b>	
CREW NO. <b>6834</b>		TERRAIN <b>Dirt Road Rolling Hills</b>			WEATHER <b>Clear + windy</b>				LINE NO. <b>4</b>	
REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	F I L T E R			RE MARKS
							LOCUT	60 ~	AMP	
1	199	194	198-293	20	4	423	OUT	IN	70%	
2	200	195	199-294	21		423			70%	EOT * 423 Tape MKTs.
3										
4										Finished For the Day.
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22										
23										
24										
25										
TOTAL SETUPS		TOTAL SWEEPS		TOTAL COVERAGE			TOTAL FIELD TIME		DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY		SWEEP PATTERN		SWEEPS PER PATTERN			SWEEP PATTERNS PER SETUP		PATCH PATTERN	
GEOPHONES PER PATCH		NO. OF RECORDING PATCHES		TYPE VIBRATOR	TYPE GEOPHONE		FREQUENCY		STATION INTERVAL	LINE DIR. 1 TO 24
REMARKS					OBSERVER			PARTY MGR.		