

**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>Cloud</b>	DATE <b>12-18-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road + Rolling Hills</b>	WEATHER <b>Partly Cloudy + Snow</b>	LINE NO. <b>5</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				611	OUT	IN		Recorder set AT 188-189
2	934/935	EINT								STA * 143, 160, 161, + 233 All open due to Bridges.
3	936/939	DRD								Hwy * 9 AT STA * 133 1/2
4	953/954	Sum TEST								BOT * 611 * 900 10 sec All ones.
5	960/961	NRX TEST								4 Sweeps Per station.
6	932	Similarity	217	4					30%	Vib * 14256 Down
7	124	Wind Strip	19							
8	125	131	135-230	19	4				50%	Stacked 1st half.
9	SKIP	132	136-231	20					SKIP	Due to house
10	SKIP	133	137-232	21					SKIP	Due to Intersection
11	126	134	138-233	22					30%	Stacked 1st half
12	SKIP	135	139-234	23					SKIP	Due to gas pipeline
13	SKIP	136	140-235	24					SKIP	" " " "
14	127	137	141-236	25					30%	Stacked last half
15	128	138	142-237	26					50%	
16	129	139	143-238	27					50%	
17	130	140	144-239	28					50%	
18	131	141	145-240	29					50%	
19	132	142	146-241	30					50%	
20	133	143	147-242	31					50%	
21	134	144	148-243	32					50%	
22	135	145	149-244	33	1	611			50%	EOT * 611 Tape MKTs.
23	137	146	150-245	34		612			50%	BOT * 612 * 900 10 sec All ones. *136 52 sec Wind Strip.
24	138	147	151-246	35					50%	
25	139	148	152-247	36					50%	

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8 → 32 Hz / 32 sec	SWEEP PATTERN 4/163	SWEEPS PER PATTERN 4	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN      X	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-V 1100's 1-V 900	TYPE GEOPHONE ETLE 22R	FREQUENCY 7.5 Hz	STATION INTERVAL 330'
REMARKS 8 ms Sample Rate / 52 sec Record Length	OBSERVER R. Patton / M. Richey	PARTY MGR. L. Davis	LINE DIR. 1 TO 24 S → N		

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CLIENT <b>COCORP</b>	AREA <b>KANSAS</b>	STATE <b>KANSAS</b>	COUNTY <b>cloud</b>	DATE <b>12-18-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road &amp; Rolling Hills</b>	WEATHER <b>cloudy &amp; snow</b>		LINE NO. <b>5</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	140	149	153-248	37	4	612	OUT	IN	50%	
2	141	150	154-249	38					50%	
3	142	151	155-250	39					50%	
4	143	152	156-251	40					30%	STACKED 1st HALF
5	SKIP	153	157-252	41					SKIP	GAS PIPELINE
6	144	154	158-253	42					50%	
7	145	155	159-254	43					50%	
8	146	156	160-255	44					50%	
9	147	157	161-256	45					50%	
10	148	158	162-257	46					50%	
11	149	159	163-258	47		612			50%	EOT * 612 Tape MKTs.
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			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

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CLIENT <b>COCORP</b>	AREA <b>KANSAS</b>	STATE <b>KANSAS</b>	COUNTY <b>cloud</b>	DATE <b>12-15-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road + Rolling Hills</b>	WEATHER <b>cloudy + windy</b>		LINE NO. <b>5</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	1-6sec			Missed Sweeps	605	OUT	IN		Recorder set AT 137-138
2	934/935 FINT	2- " "								STA * 143, 160 + 161 All open Due to Bridges.
3	936/938 D.R.D	4- " "								Hwy * 9 AT STA * 133 1/2
4	953/954 SUM test	2- " "								
5	960/961 N.R.J. test	2- " "								
6	932 SIMILARITY	1-32sec	217	4					30%	Uib * 14256 Down
7	058 WIND strip	1-52sec	1							
8	059 62	66-161	1	4					50%	
9	060 63	67-162	2			605			50%	EOT * 605 Tape MKTs
10	062 64	68-163	3			606			50%	BOT * 606 * 900 10 sec All ones * 061 52 sec wind strip
11	063 65	69-164	4						50%	
12	064 66	70-165	5						50%	
13	065 67	71-166	6						50%	
14	066 68	72-167	7						50%	
15	Skip 69	73-168	8						Skip	Due to house
16	067 70	74-169	9						50%	Stacked last half
17	068 71	75-170	10						50%	
18	069 72	76-171	11						50%	
19	070 73	77-172	12						50%	
20	071 74	78-173	13						50%	
21	072 75	79-174	14						50%	
22	073 76	80-175	15			606			50%	EOT * 606 Tape MKTs
23	075 77	81-176	16			607			50%	BOT * 607 * 900 10 sec All ones * 074 52 sec Wind strip
24	076 78	82-177	17						50%	
25	077 79	83-178	18						50%	

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8 → 32 Hz / 32 sec		SWEEP PATTERN 4/63	SWEEPS PER PATTERN 4	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN                   x
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-V1100's 1-V900	TYPE GEOPHONE ETLE1122B	FREQUENCY 7.5 Hz	STATION INTERVAL 330'
REMARKS 8ms SAMPLE RATE / 52sec Record Len			OBSERVER R. PATTON / M. Bichey	PARTY MGR. L. DAVIS	

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CLIENT <b>COCORP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Cloud</b>	DATE <b>12-15-81</b>	
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road + Rolling Hills</b>	WEATHER <b>Cloudy + Windy</b>	LINE NO. <b>5</b>		

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	Missed Sweeps	TAPE RL. NO.	F I L T E R			RE MARKS
							LOCUT	60 ~	AMP	
1	078	80	84-179	19	4	607	OUT	IN	50%	
2	079	81	85-180	20					50%	
3	080	82	86-181	21					50%	
4	081	83	87-182	22	4 Sweeps				50%	4 sweeps on UP #1-83.
5	082	84	88-183	23	8 Sweeps				30%	Stacked 1st half going back to 8 sweeps
6	SKIP	85	89-184	24					SKIP	Due to house
7	SKIP	86	90-185	25					SKIP	" " "
8	083	87	91-186	26					50%	
9	084	88	92-187	27					50%	
10	085	89	93-188	28					50%	
11	086	90	94-189	29		607			50%	E.O.T #607 TAPE MKTS
12	088	91	95-190	30		608			50%	B.O.T #608 900 10sec All ones #087 52sec
13	089	92	96-191	31					50%	WIND STRIP
14	090	93	97-192	32					50%	
15	091	94	98-193	33					50%	
16	092	95	99-194	34					50%	
17	093	96	100-195	35					50%	
18	094	97	101-196	36					30%	STACKED 1st HALF
19	SKIP	98	102-197	37					SKIP	Due to HOUSE
20	SKIP	99	103-198	38					SKIP	" " "
21	SKIP	100	104-199	39					SKIP	" " "
22	095	101	105-200	40					30%	STACKED LAST HALF
23	096	102	106-201	41					30%	
24	097	103	107-202	42					50%	
25	098	104	108-203	43					50%	

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.				

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CLIENT <b>COCORP</b>	AREA <b>KANSAS</b>	STATE <b>KANSAS</b>	COUNTY <b>cloud</b>	DATE <b>12-15-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road + Rolling Hills</b>	WEATHER <b>cloudy</b>	LINE NO. <b>5</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	105	109-204	44	4		608	OUT	IN	50%	E.D.+*608 TAPE MKTS
2	106	110-205	45			609			50%	B.D.+*609 900 10sec ALL ONES #100, 52se WIND
3	107	111-206	46						50%	Strip
4	108	112-207	47						50%	
6	109	113-208	48						50%	
6	110	114-209	49						50%	
7										
8										
9										
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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.	



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CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road + ROLLING Hills</b>	WEATHER <b>cloudy partly</b>		LINE NO. <b>5</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	018	19	23-118	20	4	missed sweep	602	OUT	IN	50%	
2	019	20	24-119	21						50%	
3	020	21	25-120	22						50%	
4	021	22	26-121	23						50%	
5	022	23	27-122	24						50%	
6	023	24	28-123	25						50%	
7	024	25	29-124	26			602			50%	E.O.T #602 TAPE MKTS
8	026	26	30-125	27			603			50%	B.O.T #603 900 10sec All ones #025 52sec
9	027	27	31-126	28						50%	WIND STRIP
10	028	28	32-127	29						50%	
11	029	29	33-128	30						50%	
12	030	30	34-129	31						50%	
13	031	31	35-130	32						30%	STACKED 1st HALF
14	SKIP	32	36-131	33						SKIP	Due TO water well
15	032	33	37-132	34						30%	STACKED LAST HALF
16	033	34	38-133	35						30%	
17	034	35	39-134	36						50%	
18	035	36	40-135	37						50%	
19	036	37	41-136	38						50%	
20	037	38	42-137	39			603			50%	EOT #603 Tape MKTS.
21	SKIP	39	43-138	40						SKIP	Due TO water well
22	SKIP	40	44-139	41						SKIP	Due TO house
23	039	41	45-140	42			604			50%	Bot #604 *900 10sec All ones. *038 52sec windstrip.
24	040	42	46-141	43						50%	VP* 41 stacked last half
25	041	43	47-142	44						50%	

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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CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road Rolling Hills</b>	WEATHER <b>Clear</b>	LINE NO. <b>5</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	042	44	48-143	45	4		604	OUT	IN	50%	STR* 143 OPEN Due TO Bridge.
2	043	45	49-144	46						50%	
3	044	46	50-145	47						50%	
4	045	47	51-146	48						50%	
5	046	48	52-147	49						50%	
6	047	49	53-148	23						50%	MOVED Recorder up, SET AT 102-103
7	048	50	54-149	24						50%	
8	048	51	55-150	25						30%	stacked 1st half/NOTE #50 sta 51 File #048
9	SKIP	52	56-151	26						SKIP	Should HAVE Been #49 MDS - wrote WRONG
10	049	53	57-152	27		604				50%	E.O.T #604 TAPE MKTS
11	051	54	58-153	28		605				50%	B.O.T #605, 900 10sec All ONES #050 52sec
12	052	55	59-154	29						50%	WIND STRIP
13	053	56	60-155	30						50%	stacked 1st half
14	SKIP	57	61-156	31						SKIP	
15	054	58	62-157	32						50%	
16	055	59	63-158	33	11					50%	
17	056	60	64-159	34						50%	
18	057	61	65-160	35						50%	#160 sta OPEN Due to bridge
19											
20											
21											
22											
23											
24											
25											

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY <b>8-32 Hz / 32 sec</b>	SWEEP PATTERN <b>4163</b>	SWEEPS PER PATTERN <b>4</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN <b>     X     </b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>4-Y 1100 1-4 900</b>	TYPE GEOPHONE <b>ETLEU22B</b>	FREQUENCY <b>7.5 Hz</b>	STATION INTERVAL <b>330'</b>
REMARKS <b>8ms Sample Rate / 52 sec. RECORD</b>			OBSERVER <b>R. Patton / M. Richey</b>	PARTY MGR. <b>L. Davis</b>	