

# OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

Exploration Services  
Division  
Geosource Inc.

CLIENT <b>COCORP</b>			AREA <b>OKLA.</b>			STATE <b>OKLA.</b>			COUNTY <b>Custer</b>			DATE <b>1/6/81</b>		
CREW NO. <b>6834</b>			TERRAIN <b>High Plains</b>			WEATHER <b>Partly Cloudy + Windy</b>			LINE NO. <b>10</b>					
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.				160	OUT	IN		Recorder set up at Sta's 73-74				
2	<del>934</del> 935 EINT	2-6 sec.								Sta's # 37+42 Dead due to Drive ways.				
3	<del>936</del> 937 D.R.D.	4- " "								Start of Line #10				
4	<del>953</del> 954 Sum Test	2- " "												
5	<del>960</del> 961 N. RJ. Test	2- " "												
6	932 Similarity	1-26 sec.	225	5					50%					
7	001 Wind Strip	1-6 sec.	3											
8	002 1	4-99	3	5					50%					
9	003 4	7-102	6						50%	# 4 started 1st half. Standing BY wind picking up.				
10										Windy now 25-30 +Gusting TO noisy Shutting Down				
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TOTAL SETUPS		TOTAL SWEEPS		TOTAL COVERAGE		TOTAL FIELD TIME		DRIVING TIME		SYSTEM NO.	
										MDS-10	
SWEEP FREQUENCY 8-40 Hz / 26 sec		SWEEP PATTERN 4/63		SWEEPS PER PATTERN 16		SWEEP PATTERNS PER SETUP 1		PATCH PATTERN 11111122 2 2 111111			
GEOPHONES PER PATCH 24		NO. OF RECORDING PATCHES 96		TYPE VIBRATOR 4-1/100's 1-Y900		TYPE GEOPHONE ETLEV22B		FREQUENCY 7.5 Hz		STATION INTERVAL 330'	
REMARKS Hms Sample Rate 1/4 sec Record Length				OBSERVER R. Patton / J. Wingo		PARTY MGR. J. Davis		LINE DIR. 1 TO 24 E-W			

# OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

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CLIENT <b>COCORP</b>	AREA <b>OKLA</b>	STATE <b>OKLA.</b>	COUNTY <b>Dewey</b>	DATE <b>1/7/81</b>
CREW NO. <b>6834</b>	TERRAIN <b>High Plains</b>	WEATHER <b>Clear + windv.</b>		LINE NO. <b>10</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.			160	OUT	IN		Recorder set up at 73-74
2	<del>934</del> 935	EINT	2- " "							Electric Fence #T 45-60 Also High Line Running
3	<del>935</del> 936	D.R.D.	4- " "							Down Line #37 + 42 Dead due to Drive ways.
4	<del>937</del> 953	Sum Test	2- " "							#118 + 125 Dead due to Drive ways.
5	<del>954</del> 960	N.R.J. Test	2- " "							
6	932	Similarity	1-26 sec	225'	5				50%	
7	004	Wind Strip	1-6 sec.	9						
8	005	7	10-105	9	5'	160			50%	#7 stacked last half. Eot #160 Tape MkTs
9	007	10	13-108	12		161			70%	Bot #161 *900 10 sec All ones *006 6 sec wind strip.
10	008	13	16-111	15					70%	
11	Skip	16	19-114	18					Skip	#16 skip due to pipe line. <span style="float:right">8.0 hrs</span>
12	009	18	21-116	20					50%	#18 stacked last half.
13	Skip	21	24-119	23					Skip	#21 skip due to deep ditch.
14	010	24	27-122	26					70%	#24 stacked last half.
15	011	27	30-125	29					70%	wind picking up.
16	012	30	33-128	32					70%	
17	013	33	36-131	35		161			70%	#33 stacked last half. Eot #161 Tape MkTs.
18	Skip	36	39-134	38		162			Skip	#36 skip due to pipe line + housing. #39 stacked last half.
19	015	39	42-137	41		162			50%	Bot #162 *900 10 sec All ones #014 6 sec wind strip
20	016	42	45-140	44					50%	
21	Skip	45	48-143	47					Skip	#45 skip due to houses.
22	017	46	49-144	48					50%	#46 stacked last half. wind picking up gusting getting to noisy shutting down.
23										
24										
25										

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <b>MD5-10</b>
SWEEP FREQUENCY <b>8-240 Hz / 26 sec.</b>	SWEEP PATTERN <b>4163</b>	SWEEPS PER PATTERN <b>16</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN <b>1111112222111111</b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>4-Y11003 1-Y900</b>	TYPE GEOPHONE <b>ETLEV22B</b>	FREQUENCY <b>7.5 Hz.</b>	STATION INTERVAL <b>330'</b>
REMARKS <b>4ms. Sample Rate / 42 sec. Record Length</b>			OBSERVER <b>R. Patton / J. Wings</b>	PARTY MGR. <b>J. Davis</b>	

# OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

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CLIENT <b>COCORP</b>	AREA <b>OKLA.</b>	STATE <b>OKLA.</b>	COUNTY <b>Dewey</b>	DATE <b>1/8/81</b>
CREW NO. <b>6834</b>	TERRAIN <b>High Plains</b>	WEATHER <b>Partly Cloudy + Windy.</b>		LINE NO. <b>10</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	80 ~	AMP	
1 <del>933</del>	Pulse	1-6sec.				162	OUT	IN		Recorder set up at 123-124
2 <del>934</del>	FTNT	2- " "								#118+125 Dead due to Drive ways.
3 <del>936</del>	D.R.D.	4- " "								
4 <del>953</del>	Sum Test	2- " "								Piple line Crossing At 154-157.
5 <del>960</del>	N.R.I. Test	2- " "								
6 932	Similarity	1-26sec.	225	4					50%	Vib # 16344 Down Voltage Problem In Inst. Case.
7 018	Wind Strip	1-6sec.	1							
8 019	49	52-147	1						50%	
9 Skip	52	55-150	4						50%	#52 skip due to houses.
10 020	54	57-152	6			162			50%	#54 stacked last half. EOT # 162 Tape MKTs.
11 Skip	57	60-155	9						50%	#57 skip due to water well.
12 022	58	61-156	10			163			50%	#58 stacked last half. Bot # 163 #900 10sec All ones # 021
13 023	61	64-159	13						70%	wind strip.
14 024	64	67-162	16						70%	
15 Skip	67	70-165	19						50%	#67 skip due to houses
16 025	69	72-167	21						50%	#69 stacked last half.
17 026	72	75-170	24						70%	#72 stacked last half due to terrain.
18 027	75	78-173	27						50%	#75 stacked 1st half. Vib # 12667 Down Broken
19 028	78	81-176	30			163			50%	Column Bolt. Vib # 16344 Back on line Also Took Similarity.
20 030	81	84-179	33			164			50%	#78 stacked last half. #78 EOT # 163 Tape MKTs.
21 Skip	84	87-182	36						50%	#81 Bot # 164 #900 10sec All ones # 029 6sec wind strip.
22 Skip	87	90-185	39						50%	#84 + 87 skip due to houses.
23 031	89	92-187	41						50%	#89 stacked last half.
24 032	92	95-190	44						70%	
25 033	95	98-193	47						70%	

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <b>MDS-10</b>
SWEEP FREQUENCY <b>8-40Hz/26sec.</b>	SWEEP PATTERN <b>4/16.3</b>	SWEEPS PER PATTERN <b>16</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN <b>11111122222111111</b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>4-V1100's 1-Y900</b>	TYPE GEOPHONE <b>ETLEVR2R</b>	FREQUENCY <b>7.5Hz.</b>	STATION INTERVAL <b>330'</b>
REMARKS <b>4 sec Sample Rate / 42 sec Record Length</b>		OBSERVER <b>R. Patton / J. Wing</b>		PARTY MGR. <b>L. Davis</b>	

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CLIENT <b>COCORP</b>	AREA <b>OKIA</b>	STATE <b>OKIA</b>	COUNTY <b>Dewey</b>	DATE <b>1-8-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>High Plains</b>	WEATHER <b>Partly cloudy + windy</b>		LINE NO. <b>10</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	034	98	101-196	13	4	164	out	IN	70%	Moved Recorder to 160-161
2	035	101	104-199	16					50%	
3	Skip	104	107-202	19					Skip	*104 + 107 skip due to houses.
4	Skip	107	110-205	22					Skip	
5	036	109	112-207	24		164			50%	*109 stacked last half EOT * 164 Tape MKTs.
6	038	112	115-210	27		165			70%	Bot *165 *900 10 sec All ones *037 6sec. wind strip.
7	039	115	118-213	30					50	
8	Skip	118	121-216	33					Skip	*118 skip due to houses.
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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	
REMARKS		OBSERVER				PARTY MGR.					

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CLIENT <b>COCORP</b>	AREA <b>OKLA.</b>	STATE <b>OKLA</b>	COUNTY <b>Dewey</b>	DATE <b>1/9/81</b>
CREW NO. <b>6834</b>	TERRAIN <b>High Plains</b>	WEATHER <b>Clear</b>		LINE NO. <b>10</b>

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.				165	OUT	IN		Recorder set up at 193-194
2	<del>934</del> 935 FTNT	2- " "								*125 Dead due to Drive way
3	<del>936</del> 939 D.R.D.	4- " "								*224 Dead due to Road *240 Dead due to Drive way.
4	<del>953</del> 954 Sum Test	2- " "								Vib #12667 Down Broken Column Bolt.
5	<del>960</del> 961 N. Rt. Test	2- " "								Other SEismic Crews Shooting IN AREA.
6	932 Similarity	1-26 sec.	225	4					50%	
7	040 Wind Strip	1-6 sec.	3							
8	041 121	124-219	3						50%	*121 stacked last half.
9	SKIP 124	127-222	6						SKIP	*124 skip due to house + water well.
10	042 127	130-225	9						50%	*127 stacked last half.
11	043 130	133-228	12			165			50%	*130 stacked last half due to Ditches. EXT #165.
12	SKIP 133	136-231	15						SKIP	*133 skip due to houses. *136 Bot *166 *900 10sec-
13	045 136	139-234	18			166			50%	*136 stacked last half. All ones. *044 6sec wind strip.
14	046 139	142-237	21						50%	
15	SKIP 142	145-240	24						SKIP	*142 skip due to houses.
16	047 145	148-243	27						70%	*145 stacked last half
17	048 148	151-246	30						70%	
18	SKIP 151	154-249	33						SKIP	*151 skip due to houses.
19	SKIP 154	157-252	36						SKIP	*154 + 157 skip due to High Pressure pipe line
20	SKIP 157	160-255	39						SKIP	
21	049 160	163-258	42						50%	*160 stacked 1st half
22	SKIP 163	166-261	45						SKIP	*163 skip due to Cemetery.
23	050 164	167-262	46						50%	*164 stacked last half.
24	SKIP 167	170-265	49						SKIP	*167 skip due to houses.
25	SKIP 169	172-267	-						SKIP	*169 skip due to deep ditch.

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <b>MDS-10</b>
SWEEP FREQUENCY <b>8 → 40 Hz / 26 sec.</b>	SWEEP PATTERN <b>4163</b>	SWEEPS PER PATTERN <b>16</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN <b>1111112222111111</b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>4-V11005 1-1900</b>	TYPE GEOPHONE <b>ETLEV22B</b>	FREQUENCY <b>7.5 Hz.</b>	STATION INTERVAL <b>330'</b>
REMARKS <b>Ans. Sample Rate / 42 sec. Record Length</b>			OBSERVER <b>R. Patten / J. Wingo</b>	PARTY MGR. <b>L. Davis</b>	LINE DIR. 1 TO 24 <b>E → W</b>

# OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

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CLIENT <b>Cocorp</b>	AREA <b>OKIA</b>	STATE <b>OKIA</b>	COUNTY <b>Dewey</b>	DATE <b>1-9-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>High Plains</b>	WEATHER <b>Clear</b>		LINE NO. <b>10</b>

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	FILTER			REMARKS
							LOCUT	60~	AMP	
1	051	175-270	2	4		166	out	IN	70%	Moved Recorder to 245-246. EOT * 166 Tape MKTs.
2	053	178-273	5			167			70%	Bot * 167 * 900 10 sec All ones * 052 6 sec wind strip.
3	054	181-276	8						70%	* 175 stacked 1st half due to Ditches.
4	Skip	184-279	11						SKIP	* 181 skip due to pipe line & Ditch.
5	055	187-282	14						70%	
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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	
REMARKS		OBSERVER					PARTY MGR.				

# OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

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CLIENT COCORP	AREA OKLA.	STATE OKLA.	COUNTY Dewey	DATE 1-10-81
CREW NO. 6834	TERRAIN High Plains	WEATHER Partly cloudy	LINE NO. 10	

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.			167	OUT	IN		Recorder set up at 260-261
2	<del>934</del> 935	ETNT	2- " "							* 224 Dead due to Road + 240 Dead due to Drive way
3	<del>936</del> 939	D.R.D.	4- " "							Other SEismic Crews Shooting IN AREA.
4	<del>938</del> 954	Sum Test	2- " "							
5	<del>960</del> 961	N.R.T. TEST	2- " "							
6	952	Similarity	1-26 sec	225	4				50%	Vib #12666 Down Engine out.
7	056	Wind Strip.	1-6 sec.	2	4					
8	057	187	190-285	2					70%	*187 Stacked 1st half due to Ditch.
9	SKIP	190	193-288	5					SKIP	*190 skip due to TERRAIN.
10	058	193	196-291	8		167			70%	*193 Stacked last half due to TERRAIN. EOT #167
11	SKIP	196	199-294	11		168			SKIP	*196 skip due to TERRAIN
12	060	197	200-295	12		168			50%	Bot #168 #900 10 sec All ones *059 6sec windstrip
13	SKIP	200	203-298	15					SKIP	*200 skip due to houses.
14	061	203	206-301	18					50%	
15	062	206	209-304	21					70%	
16	063	209	212-307	24					70%	
17	064	212	215-310	27					70%	
18	065	215	218-313	30					70%	
19	SKIP	218	221-316	33					SKIP	*218 skip due to water well
20	066	219	222-317	34		168			50%	*219 stacked last half EOT #168 tape MKTs.
21	068	222	225-320	37		169			50%	Bot #169 #900 10 sec All ones *067 6sec windstrip.
22	SKIP	225	228-323	40					SKIP	*222 stacked 1st. half.
23	069	228	231-326	43					70%	
24	070	231	234-329	46					70%	*231 stacked 1st half
25	071	234	237-332	49					50%	*231 stacked 1st half.

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS-10
SWEEP FREQUENCY 8 → 40 Hz / 26 sec	SWEEP PATTERN H163	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN 11111112222111111	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 9	TYPE VIBRATOR 4x1100's 1-1900	TYPE GEOPHONE ETLEVR22B	FREQUENCY 7.5 Hz.	STATION INTERVAL 330'
REMARKS Sample Rate 1/16 sec Record	OBSERVER R. Patton		PARTY MGR. J. Wingo		LINE DIR. 1 TO 24 E → W

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc.

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CLIENT <b>COCORP</b>	AREA <b>OKIA</b>	STATE <b>OKIA</b>	COUNTY <b>Dewey</b>	DATE <b>1-10-80</b>
CREW NO. <b>6834</b>	TERRAIN <b>High Plains</b>	WEATHER <b>Partly Cloudy</b>		LINE NO. <b>10</b>

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	FILTER			REMARKS
							LOCUT	60~	AMP	
1	Skip 237	240-335	23	4		169	OUT	IN	Skip	#237 skip due TO houses Moved Recorder TO 287-290
2	Skip 240	243-338	26						Skip	*240 skip due to houses + store.
3	072 243	246-341	29						70%	246-252 skip due TO TERRAIN narrow ditches + deep ditches. EOT #169 TAPE MKTS, EOL line #10.
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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.		