

OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER

Exploration Services  
Division  
Geosource Inc.

Noise Spread

1937

CLIENT <b>COCORP</b>	AREA <b>KANSAS LINE #1</b>	STATE <b>KA.</b>	COUNTY	DATE <b>10-23-79</b>
CREW NO. <b>6834</b>	TERRAIN <b>Hilly</b>	WEATHER <b>Clear - Cool</b>		LINE NO. <b>1</b>

Reels KANWOOD - KANWOOD 11

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER		REMARKS
							LOCUT	60~	
1 933	PULSE	1 - 6 SEC.				659	Out	IN	BOT # 659. FILE # 900-10 SEC. ALL ONE'S.
2 934	EINT	2 - " "							
3 935	DRD	4 - " "							
4 936	SUM TEST	2 - " "							NOISE SPREAD LAYED OUT ON 220' STA'S WITH 110' HALF STA'S STARTING WITH STA # 24 (24, 24 1/2, 25, 25 1/2 ETC.) TO STA 7 1/2 (96 STA'S)
5 937	NRT TEST	2 - " "							
6 938	Similarity	1 - 22 SEC.		4					50%
7 001	Wind Strip	1 - 6 SEC.							
8 002	23	24 - 7 1/2	28	1					V.P. # 23. 1 VIB'S 8 SWEEPS
9									
10									
11 003	-25	24 - 7 1/2	28	4					STA # -25 APPX. 1 MILE FROM STA # 1 EAST. V.P. # -25. 4 VIB'S 16 SWEEPS
12									
13									
14 004	72 1/2	24 - 7 1/2	28	1					V.P. # 72 1/2. 1 VIB 8 SWEEPS
15									
16									
17 005	118	24 - 7 1/2	28	4					V.P. # 118. 4 VIB'S 16 SWEEPS
18									
19									
20 006	79	24 - 7 1/2	28	4					V.P. # 79. 4 VIB'S 16 SWEEPS
21									
22									
23									FINISHED FOR THE DAY, PICKING UP NOISE SPREAD LAYING OUT LINE
24									
25									

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <b>MDS-10</b>
SWEEP FREQUENCY	SWEEP PATTERN	SWEEPS PER PATTERN	SWEEP PATTERNS PER SETUP	PATCH PATTERN <b>PODDED</b>	
GEOPHONES PER PATCH	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>3-4100'S 1-4900</b>	TYPE GEOPHONE <b>ET6-EV223</b>	FREQUENCY <b>75 Hz.</b>	STATION INTERVAL <b>1 TO 24</b>
REMARKS	OBSERVER <b>SIMMONS</b>		PARTY MGR.		

OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER

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Exp.

CLIENT <b>COCORP</b>	AREA <b>KANSAS LINE #1</b>	STATE <b>Ka.</b>	COUNTY	DATE <b>10-24-79</b>
CREW NO. <b>6834</b>	TERRAIN	WEATHER <b>CLEAR - COOL</b>		LINE NO. <b>1</b>

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER		REMARKS
							LOCUT	60 ~	
1	953	PULSE	1			660	Out	IN	BOT. # 660. FILE # 900-10 SEC. ALL ONE'S RECORDER SET UP BETWEEN STA'S # 70 & 71
<del>934</del>	<del>935</del>	EINI	2						
<del>936</del>	<del>937</del>	DRD	4						
<del>953</del>	<del>954</del>	SUM TEST	2						
<del>960</del>	<del>961</del>	NRI TEST	2						
6	932	SIMILARITY	1	4				50%	
7	007	Wind Scrip	1						
8	008	10	14		16			70%	SOURCE ARRAY 660'
9	009	10	14		16			"	" " " "
10	010	10	14		16			"	" " 440'
11	011	10	14		16			"	" " 1100'
12	012	115	28-111 X 119-130		30			"	" " 660'
13	013	115	28-111 X 119-130		30	660		"	" " <del>660</del> 1100'
14									EOT # 660
15									
16									FINISHED FOR THE DAY
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
REMARKS	OBSERVER		PARTY MGR.		

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DIGITAL VIBROSEIS RECORDER

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CLIENT <b>COCORP</b>	AREA <b>KANSAS LINE #1</b>	STATE <b>KA.</b>	COUNTY	DATE <b>10-25-79</b>
CREW NO. <b>6834</b>	TERRAIN <b>Hilly</b>	WEATHER <b>CLEAR</b>	LINE NO. <b>1</b>	

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER		REMARKS
							LOCUT	80 ~	
1 933	PULSE	1 - 6 SEC				661	Out	IN	BOT #661 FILE 900-10 SEC. ALL ONE'S
<del>234-932</del>	EINT	2 - " "							RECORDER SET UP BETWEEN STA'S 70 & 71
<del>936-939</del>	DRD	4 - " "							
<del>933-934</del>	SUM TEST	2 - " "							
<del>940-941</del>	NRJ TEST	2 - " "							
6 933	SIMILARITY	1 - 22 SEC		4					50%
7 004	WIND STRIP	1 - 6 SEC							CHECKING WINE
8 015	88	1-84 X 92-103	3						70% VP#88 STACKED ON FIRST HALF DUE TO HOUSE. 1-96 CORR. MADE ON FILE #015
9 SKIP	90	6-86 X 94-105	5						VP#90 SKIPPED DUE TO HOUSE
10 016	92	5-88 X 96-107	7						70% VP#92 STACKED ON LAST HALF DUE TO HOUSE
11 017	94	2-90 X 98-109	9						"
12 018	96	9-92 X 100-111	11						"
13 SKIP	98	11-94 X 102-113	13						VP#98 SKIPPED DUE TO HOUSE
14 019	100	13-96 X 104-115	16						30% VP#100 STACKED ON LAST HALF DUE TO HOUSE
15 020	102	15-98 X 106-117	17			661			70% BOT #661
16 021	104	17-100 X 108-119	19			662			" BOT #662 FILE #900-10 SEC. ALL ONE'S. VP 104 STACKED ON FIRST HALF DUE TO BARA
17 SKIP	106	19-102 X 110-121	21						
18 SKIP	108	21-104 X 112-123	23						VP'S 106 & 108 SKIPPED DUE TO SCHOOL
19 022	110	23-106 X 114-125	25						" VP#110 STACKED ON LAST HALF DUE TO SCHOOL
20 023	112	25-108 X 116-127	27						"
21 024	114	27-110 X 118-129	29						"
22 025	116	29-112 X 120-131	31						"
23 026	118	31-114 X 122-133	33						30%
24 027	120	33-116 X 124-135	35						30%
25 028	122	35-118 X 126-137	37			662			30% BOT #662. 3 RAW SWEEPS MADE ON FILE #028 (FOR DR. KAUFMAN. 2 FOR QUALITY CONTROL)

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY <b>8-40 Hz</b>	SWEEP PATTERN <b>660' SOURCE ARRAY</b>	SWEEPS PER PATTERN <b>16</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN <b>     222x222     </b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>3-4100'S 1-900</b>	TYPE GEOPHONE <b>5TL-FH22B</b>	FREQUENCY <b>25 Hz.</b>	STATION INTERVAL <b>220'</b>
REMARKS <b>4ms SAMPLE RATE</b>	<b>4.2 SEC RECORD LENGTH</b>	OBSERVER <b>SIMMONS</b>	PARTY MGR.		

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CLIENT <b>COCORP</b>	AREA <b>KANSAS LINE #1</b>	STATE <b>KA.</b>	COUNTY	DATE <b>10-25-79</b>
CREW NO. <b>6834</b>	TERRAIN <b>Hilly</b>	WEATHER <b>Clear</b>		LINE NO. <b>1</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 ~	
1	124	37-120 x 128-139	39	4		663	Out	IN	BOT. # 663. FILE 900-10 SEC ALL ONE'S. FILE 029-WIND STRIP
2	126	39-122 x 130-141	41						
3	<del>128</del>	<del>39-122 x 130-141</del>	<del>41</del>						
4									FINISHED FOR THE DAY
5									
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7									
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17									
18									
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20									
21									
22									
23									
24									
25									

16 records  
12.0 hours  
1.58 miles

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY <b>8-40 Hz / 22 SEC</b>	SWEEP PATTERN <b>660' SOURCE ARRAN</b>	SWEEPS PER PATTERN <b>16</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN <b>      222 x 222      </b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>3-9100'S 1-4000</b>	TYPE GEOPHONE <b>ET6-EV22B</b>	FREQUENCY <b>25 Hz</b>	STATION INTERVAL <b>220'</b>
REMARKS <b>4ms SAMPLE RATE</b>	<b>1/2 SEC. RECORD LENGTH</b>	OBSERVER <b>SIMMONS</b>		PARTY MGR.	

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CLIENT <b>COCORP</b>	AREA <b>KANSAS LINE #1</b>	STATE <b>KA.</b>	COUNTY <b>Atchison</b>	DATE <b>10-26-79</b>
CREW NO. <b>6854</b>	TERRAIN <b>Hilly</b>	WEATHER <b>Clear - Windy</b>	LINE NO. <b>1</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 <del>933</del>	PULSE	1 - 6 SEC				663	Out	TN		RECORDER SET UP BETWEEN STA'S 112 & 113
2 <del>934</del>	FINI	2 - " "								
3 <del>935</del>	DRD	4 - " "								
4 <del>936</del>	SUM TEST	2 - " "								
5 <del>937</del>	NRJ TEST	2 - " "								
6 <del>938</del>	SIMILARITY	1 - 22 SEC.		4					50%	
7 <del>032</del>	WIND STRIP	1 - 6 SEC.								CHECKING LINE
8 033	128	41-124 X 132-143	1						70%	1-96 CORR. MADE ON FILE # 033
9 034	130	43-126 X 134-145	3						30%	
10 035	132	45-128 X 136-147	5						30%	VP # 132 STACKED ON FIRST HALF DUE TO BARN
11 SKIP	134	47-130 X 138-149	7							VP'S 134 & 136 SKIPPED DUE TO HOUSES
12 SKIP	136	49-132 X 140-151	9							
13 036	138	51-134 X 142-153	11			663			30%	E.O.T. # 663. VP # 138 STACKED ON LAST HALF DUE TO HOUSE
14 037	140	53-136 X 144-155	13			664			30%	B.O.T. # 664. FILE # 900-10 SEC. ALL ONE'S
15 038	142	55-138 X 146-157	15						70%	
16 039	144	57-140 X 148-159	17						"	
17 040	146	59-142 X 150-161	19						"	
18 041	148	61-144 X 152-163	21						"	
19 042	150	63-146 X 154-165	23						"	
20 043	152	65-148 X 156-167	25						"	
21 044	154	67-150 X 158-169	27			664			"	E.O.T. # 664
22 046	156	69-152 X 160-171	29			665			"	B.O.T. # 665. FILE # 900-10 SEC. ALL ONE'S. FILE # 042 WIND STRIP
23 047	158	71-154 X 162-173	31						"	RAW SWEEP MADE ON FILE # 047
24 048	160	73-156 X 164-175	33						30%	VP # 160 STACKED ON FIRST HALF DUE TO HOUSE
25 SKIP	162	75-158 X 166-177	35							VP'S 162 & 164 SKIPPED DUE TO HOUSES.

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY <b>8-40 Hz / 22 SEC</b>		SWEEP PATTERN <b>660 SOURCE ARRAY</b>		SWEEPS PER PATTERN <b>16</b>	
SWEEP PATTERNS PER SETUP <b>1</b>		PATCH PATTERN <b>      2222 X 2222      </b>			
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>#-41100 1-4900</b>	TYPE GEOPHONE <b>6-TL - EV 22B</b>	FREQUENCY <b>? 5 Hz.</b>	STATION INTERVAL <b>220'</b>
REMARKS <b>4 MS. SAMPLE RATE 42.5 MS RECORD LENGTH.</b>			OBSERVER <b>SIMMONS</b>	PARTY MGR.	

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CLIENT <b>COCORP</b>	AREA <b>KANSAS LINE #1</b>	STATE <b>KA.</b>	COUNTY <b>Atchison</b>	DATE <b>10-26-79</b>
CREW NO. <b>6834</b>	TERRAIN <b>Hilly</b>	WEATHER <b>Clear-Windy</b>		LINE NO. <b>1</b>

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F I L T E R			REMARKS
							LOCUT	80 ~	% FINE	
1	164	77-160x168	179	37	4	665	OUT	IN		
2	166	79-162x170	181	39					30%	U.P.# 166 STACKED ON LAST HALF DUE TO HOUSE
3	168	81-164x172	183	41					30%	
4										
5										
6										
7										
8										
9										
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21										
22										
23										
24										
25										

FINISHED FOR THE DAY

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY <b>8-40Hz/22 SEC.</b>	SWEEP PATTERN <b>660 Source Arrow</b>	SWEEPS PER PATTERN <b>16</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN <b>     2222x2222     </b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>3-41100'S 1-4900</b>	TYPE GEOPHONE <b>ET6-EV22B</b>	FREQUENCY <b>25Hz</b>	STATION INTERVAL <b>220'</b>
REMARKS <b>4 hrs. Sample Rate 42 sec Record Length.</b>	OBSERVER <b>SIMMONS</b>	PARTY MGR.	LINE DIR. <b>1 TO 24 E. → W.</b>		

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CLIENT <b>COCORP</b>	AREA <b>KANSAS LINE #1</b>	STATE <b>KA</b>	COUNTY <b>Atchison</b>	DATE <b>10-29-79</b>
CREW NO. <b>6834</b>	TERRAIN <b>Hilly</b>	WEATHER <b>Cloudy - Cool</b>	LINE NO. <b>1</b>	

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	
1 933	Pulse	1 - 6 Sec.				665	Out	IN		RECORDER SET UP BETWEEN STA'S 154+155
2 934	E.L.N.I	2 - " "								
3 935	DRD	4 - " "								
4 936	Sum TEST	2 - " "								
5 937	NRT TEST	2 - " "								
6 938	Similarity	1 - 22 Sec.		5					50%	
7 051	Wind Strip	1 - 6 Sec.				665				CHECKING LINE. F.O.I. # 665
8 052	170	83-166X174-185	1			666			70%	1-96 CORRELATION MADE ON FILE # 052. BOT. # 666
9 053	172	85-168X176-187	3							
10 054	174	87-170X178-189	5							
11 055	176	89-172X180-191	7						30%	UP # 176 STACKED ON FIRST HALF DUE TO HOUSE
12	SKIP	91-174X182-193	9							UP # 178 SKIPPED DUE TO HOUSE
13 056	180	93-176X184-195	11						30%	V.P. # 180 STACKED ON LAST HALF DUE TO WELL
14 057	182	95-178X186-197	13						70%	WIND PICKING UP
15 058	184	97-180X188-199	15						70%	
16 059	186	99-182X190-201	17			666			30%	UP # 186 STACKED ON FIRST HALF DUE TO HOUSE. F.O.I. # 666
17 060	188	101-184X192-203	19			667			30%	BOT. # 667 FILE # 90-10 SEC. ALL ONES. UP # 186 STACKED ON LAST HALF.
18 061	190	103-186X194-205	21						70%	
19 062	192	105-188X196-207	23						70%	
20 063	194	107-190X198-209	25						"	
21 064	196	109-192X200-211	27						"	
22 065	198	111-194X202-213	29						"	
23 066	200	113-196X204-215	31						"	RAW SWEEP (FOR DeKOFFMAN, 21-10 19-96 (FOR QUILT & CENTER) MADE ON FILE # 066
24 067	202	115-198X206-217	33			667				F.O.I. # 667 1-96 CORRELATION MADE ON FILE # 0695
25 069	204	117-200X208-219	35			668				BOT. # 668 FILE # 90-10 SEC. ALL ONES. FILE # 068 WIND STRIP. ←

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY <b>8-40 Hz / 22 SEC</b>		SWEEP PATTERN <b>660 SOURCE ARRAY</b>		SWEEPS PER PATTERN <b>16</b>	
SWEEP PATTERNS PER SETUP <b>1</b>		PATCH PATTERN <b>      2222 2222      </b>			
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>-41100'S 1-4900</b>	TYPE GEOPHONE <b>ETK-EV 223</b>	FREQUENCY <b>25 Hz.</b>	STATION INTERVAL <b>220'</b>
REMARKS <b>4ms SAMPLE RATE 4/2 SEC. RECORD LENGTH</b>			OBSERVER <b>SIMMONS</b>	PARTY MGR.	

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CLIENT <b>COCORP</b>	AREA <b>KANSAS LINE #1</b>	STATE <b>KA.</b>	COUNTY <b>Atchison</b>	DATE <b>10-29-79</b>
CREW NO. <b>6834</b>	TERRAIN <b>Hilly</b>	WEATHER <b>Cloudy</b>		LINE NO. <b>1</b>

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER		REMARKS
							LOCUT	80 ~	
1	206	19-203x210-220	37	5			Out	IN	VIB. GO-AROUND DUE TO BRIDGE.
2		<del>19-203x212-222</del>	<del>39</del>						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 <b>8-40 Hz / 22 SEC.</b>		SWEEP PATTERN <b>660' SOURCE PER PAU</b>		SWEEPS PER PATTERN <b>16</b>	
SWEEP PATTERNS PER SETUP <b>1</b>		PATCH PATTERN <b>     2222222     </b>			
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>14-4100'S 1-0900</b>	TYPE GEOPHONE <b>ETL-ENV22B</b>	FREQUENCY <b>25 Hz.</b>	STATION INTERVAL <b>220'</b>
REMARKS <b>4 MS. SAMPLE RATE 4/2 SEC. RECORD LENGTH</b>			OBSERVER <b>SIMMONS</b>	LINE DIR. <b>E. → W.</b>	

OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER

CLIENT **COCORP** AREA **KANISAS LINE #1** STATE **KA** COUNTY **Atchison** DATE **10-30-79**  
 CREW NO. **6834** TERRAIN **Hilly** WEATHER **Overcast - Windy** LINE NO. **1**

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 ~	90 ~	
1	PULSE	1 - 6 SEC				668	Out	IN		RECORDER SET UP BETWEEN STA'S 102-103 VERY WINDY
2	EINT	2 - " "								
3	DRD	4 - " "								
4	SUM TEST	2 - " "								
5	NRT TEST	2 - " "								
6	Similarity	1 - 22 SEC							50%	CHECKING LINE
7	Wind Stop	1 - 6 SEC								
8	208	121-204 X 212-208	1						70%	1-96 CORRELATION MADE ON FILE # 022
9	210	123-206 X 214-225	3						70%	STARTING TO DRIZZLE (STORMS MOVING IN)
10	212	125-208 X 216-227	2			668			30%	EQ # 668. Standing By For lightning + RAIN.
11	214	127-210 X 218-229	2			668				
12										DOWN DUE TO WEATHER.
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 **8-40 Hz / 22 SEC** SWEEP PATTERN **60' SOURCE ARRAY** SWEEPS PER PATTERN **16** SWEEP PATTERNS PER SETUP **1** PATCH PATTERN **||||| 2222 2222 |||||**

GEOPHONES PER PATCH **24** NO. OF RECORDING PATCHES **96** TYPE VIBRATOR **14-4100'S 1-4200** TYPE GEOPHONE **E.T.H. F.V. 22B** FREQUENCY **25 Hz.** STATION INTERVAL **220'** LINE DIR. **E. → W.**

REMARKS **4 hrs. Sample Rate 4/2 SEC. RECORDED LENGTH.** OBSERVER **SIMMONS** PARTY MGR. \_\_\_\_\_

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**Exploration Services  
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Geosource Inc.**

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CLIENT <b>COCORP</b>	AREA <b>KANSAS LINE #1</b>	STATE <b>KA.</b>	COUNTY <b>Atchison</b>	DATE <b>11-1-79</b>
CREW NO. <b>6834</b>	TERRAIN <b>Hilly</b>	WEATHER <b>Clear - Cool - Windy - Wet</b>		LINE NO. <b>1</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~	
1 933	PULSE	1 - 6 SEC.				668	Out	IN	RECORDER SET UP BETWEEN STA.'S 196 + 199
<del>234</del> 935	EINT	2 - " "							RAIN TUE & WED., ENTIRE AREA WET.
<del>364</del> 939	DRD	4 - " "							
<del>531</del> 954	SUM TEST	2 - " "							
<del>601</del> 961	NRT TEST	2 - " "							
6 932	Similarity	1 - 22 SEC.				668			50% E.O.I. #668
7 074	Wind Strip	1 - 6 SEC.				669			CHECKING LINE, B.O.T. #669. FILE #900-10 SEC. ALL ONE'S
8 075	2.12	125-208 X 216-227	1						30% 1-96 CORRELATION MADE ON FILE #075
9 076	2.14	27-210 X 218-229	3						70%
10 077	2.16	29-212 X 220-231	5						"
11 078	2.18	31-214 X 222-233	7						"
12 079	2.20	33-216 X 224-235	9						"
13 080	2.22	35-218 X 226-237	11						"
14 081	2.24	37-220 X 228-239	13						"
15 082	2.26	39-222 X 230-241	15			669			" E.O.I. #669
16 083	2.28	41-224 X 232-243	17			670			" B.O.T. #670. FILE #900-10 SEC. ALL ONE'S
17 084	2.30	43-226 X 234-245	19						"
18 085	2.32	45-228 X 236-247	21						"
19 086	2.34	47-230 X 238-249	23						30% VP #234 STACKED ON FIRST HALF DUE TO HOUSE.
20 087	2.36	49-232 X 240-250	25						30% " 236 " " LAST " " " "
21 088	2.38	51-234 X 242-253	27						" RAW SWEEP MADE ON FILE #088
22 089	2.40	53-236 X 244-255	29						70%
23 090	2.42	55-238 X 246-257	31			670			" E.O.I. #670 VP #244 STACKED ON FIRST HALF
24 092	2.44	57-240 X 248-259	33			671			30% B.O.T. #671. FILE #900-10 SEC. ALL ONE'S. FILE #091 WIND STRIP ←
25 SKIP	2.46	59-242 X 250-261	35						

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY <b>8-40 Hz / 22 SEC.</b>		SWEEP PATTERN <b>660' SOURCE PEAR</b>		SWEEPS PER PATTERN <b>16</b>	
SWEEP PATTERNS PER SETUP <b>1</b>		PATCH PATTERN <b>      222 X 222      </b>			
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>14-9100'S 1-4900</b>	TYPE GEOPHONE <b>ETL - EV22B</b>	FREQUENCY <b>2.5 Hz.</b>	STATION INTERVAL <b>220'</b>
REMARKS <b>4 MIS. SAMPLE DATE 42 SEC. RECORD LENGTH</b>			OBSERVER <b>Simmons</b>	PARTY MGR.	

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
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Geosource Inc.**

CLIENT <b>COCORP</b>	AREA <b>KANSAS LINE #1</b>	STATE <b>KA.</b>	COUNTY <b>Atchison</b>	DATE <b>11-1-79</b>
CREW NO. <b>6834</b>	TERRAIN <b>Hilly</b>	WEATHER <b>CLEAR-Cool-Windy-Wet</b>		LINE NO. <b>1</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 ~	OFF	
1	SKIP 248	161-244X250-263	37			6021	Out	IN		V.P.'s 246 & 248 SKIPPED DUE TO WELL & HOUSE
2	093 250	163-246X254-265	39						30%	VP # 250 STACKED ON FIRST HALF DUE TO HOUSE
3	094 252	165-248X254-267	41						30%	STA. # 265 OPEN DUE TO RIVER
4										
5										
6										FINISHED FOR THE DAY
7										
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22										
23										
24										
25										

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY <b>8-40 Hz / 22 SEC.</b>	SWEEP PATTERN <b>660' SOURCE ARRAY</b>	SWEEPS PER PATTERN <b>16</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN <b>     2222*222     </b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>14-41100'S 1-400</b>	TYPE GEOPHONE <b>ETH-EV22B</b>	FREQUENCY <b>25 Hz.</b>	STATION INTERVAL <b>220'</b>
REMARKS <b>4ms. SAMPLE RATE 4/2 SEC RECORD LENGTH.</b>	OBSERVER <b>SIMMONS</b>	PARTY MGR.	LINE DIR. <b>E. → W.</b>		

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division  
Geosource Inc.**

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CLIENT <b>COCORP</b>	AREA <b>KANSAS WINE #1</b>	STATE <b>KA.</b>	COUNTY <b>Atchison</b>	DATE <b>11-2-79</b>
CREW NO. <b>6834</b>	TERRAIN <b>H.W.H.W.</b>	WEATHER <b>CLEAR-COLD-WET</b>	LINE NO. <b>1</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 ~	
1 933	PULSE	1 - 6 SEC.				671	OUT	IN	RECORDER SET UP BETWEEN STA'S 239 & 239
2 934	FLN	2 - " "							HIGHLINE POWER SUBSTATION ON STA #184 (HIGH GROUND
3 935	DRD	4 - " "							CURRENT) STA'S 265 & 270 OPEN DUE TO RIVER.
4 936	SUM TEST	2 - " "							SPENT ALL MORNING REPLACING DAMAGED CABLES & PHONES &
5 937	NRT TEST	2 - " "							FIGHTING LEAKAGE
6 938	SIMILARITY	1 - 2 SEC.		5					50%
7 095	WIND SCRIP	1 - 6 SEC.							CHECKING LINE
8 096	254	167-250x258-269	1						70% 1-96 CORRELATION MADE ON FILE #096
9 097	255	168-251x259-270	2						
10 098	256	169-252x260-271	3			671			EOL #671
11 099	257	170-253x261-272	4			672			BO.T. #672. FILE #900-10 SEC ALL ONE'S.
12 100	258	171-254x262-273	5						
13 101	259	172-255x263-274	6						
14 102	260	173-256x264-275	7						
15 SKIP	262	175-258x266-277	9						
16 "	264	177-260x268-279	11						} VP'S 262-272 SKIPPED DUE TO RIVER
17 "	268	179-262x270-281	13						
18 "	268	181-264x272-283	15						
19 "	270	183-266x274-285	17						
20 SKIP	272	185-268x276-287	19						
21 103	273	186-269x277-288	20						
22 104	274	187-270x278-289	21						
23									FINISHED FOR THE DAY
24									
25									

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY <b>8-40 Hz / 22 SEC.</b>	SWEEP PATTERN <b>660 SQUARE ARRAY</b>	SWEEPS PER PATTERN <b>110</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN <b>      2222 2222      </b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>ETH - F.V. 222</b>	FREQUENCY <b>25 Hz</b>	STATION INTERVAL <b>220'</b>	LINE DIR. 1 TO 24 <b>E. → W.</b>
REMARKS <b>4 MS. SAMPLE RATE 4 1/2 SEC. RECORD LENGTH</b>	OBSERVER <b>SIMMONIS</b>		PARTY MGR.		

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Serv.  
Division  
Geosource Inc.**

CLIENT <b>COCORP</b>	AREA <b>KANSAS WINE #1</b>	STATE <b>KA.</b>	COUNTY <b>Atchison</b>	DATE <b>11-3-74</b>
CREW NO. <b>6834</b>	TERRAIN <b>Hilly</b>	WEATHER <b>CLEAR-COLD</b>		LINE NO. <b>1</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~	
1 923	PULSE	1 - 6 SEC				672	Out	IN	RECORDER SET UP BETWEEN STA'S 259 & 260
2 924	EINT	2 - " "							NOISE ON STA'S 235 & 236 DUE TO PUMP IN OPERATION.
3 926	DRD	4 - " "							STA'S 265 & 270 OPEN DUE TO RIVER.
4 923	SUM TEST	2 - " "							
5 960	NRJ TEST	2 - " "							
6 932	SIMILARITY	1 - 22 SEC.						50%	
7 105	WIND STRIP	1 - 6 SEC.				672			CHECKING WINE. E.O.T. #672
8 106	275	188-271x279-290	1			672		70%	1-96 CORRELATION MADE ON FILE #106. BOT. #675
9 107	276	189-272x280-291	2					"	
10 108	277	190-273x281-292	3					"	
11 109	278	191-274x282-293	4					"	
12 110	280	193-276x284-295	6					"	
13 111	282	195-278x286-297	8					"	
14 112	284	197-280x288-299	10					"	
15 113	286	199-282x290-301	12			673		"	E.O.T. #673
16 114	288	201-284x292-303	14			674		"	B.O.T. #674 FILE #90-10 SEC ALL ONE'S
17 115	290	203-286x294-305	16					70%	
18 116	292	205-288x296-307	18					30%	V.P. # 292 STACKED ON FIRST HALF DUE TO NOISE
19 117	294	207-290x298-309	20					30%	" 294 " " " " " " " "
20 118	296	209-292x300-311	22					70%	3 Raw Sweeps (For Dr. Kantonan, 2 L-1044# / For D. L. Control) MADE ON FILE #118
21 119	298	211-294x302-313	24					"	
22 120	300	213-296x304-315	26					"	
23 121	302	215-298x306-317	28			674		"	E.O.T. #674
24 123	304	217-300x308-319	30			675		30%	B.O.T. #675. FILE #90-10 SEC ALL ONE'S. FILE #123 WIND STRIP
25 124	306	219-302x310-321	32					30%	

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY <b>8-40HZ. / 22 SEC.</b>		SWEEP PATTERN <b>660'S SOURCE ARRAY</b>		SWEEPS PER PATTERN <b>16</b>	
SWEPT PATTERNS PER SETUP <b>1</b>		PATCH PATTERN <b>111122222221111</b>		STATION INTERVAL <b>220'</b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>ET6 - 5V22B</b>	FREQUENCY <b>25HZ</b>	LINE DIR. <b>E → W</b>	REMARKS <b>4ms. SAMPLE RATE 42 SEC. RECORD LENGTH</b>
OBSERVER <b>SIMMONS</b>			PARTY MGR.		

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
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Geosource Inc.

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CLIENT <b>COCORP</b>	AREA <b>KANSAS LINE #1</b>	STATE <b>KA.</b>	COUNTY <b>Atchison</b>	DATE <b>11-3-79</b>
CREW NO. <b>6834</b>	TERRAIN <b>Hilly</b>	WEATHER <b>CLEAR + COLD</b>		LINE NO. <b>1</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	308	221-304x312-323	34	2		675	Out	III.	70%	
2	310	223-306x314-325	36							
3	312	225-308x316x327	38							
4	314	227-310x318-329	40							
5										
6										FINISHED FOR THE DAY
7										
8										
9										
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11										
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25										

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY <b>8-40Hz / 22 SEC.</b>		SWEEP PATTERN <b>660' SOURCE PARAG</b>	SWEEPS PER PATTERN <b>16</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>44100'S 1-400</b>	TYPE GEOPHONE <b>ETG - EV 22B</b>	FREQUENCY <b>25 Hz.</b>	STATION INTERVAL <b>220'</b>
REMARKS <b>4 Ms SAMPLE RATE 4.7 SEC RECORD LENGTH</b>			OBSERVER <b>SIMMONS</b>	LINE DIR. <b>E → W.</b>	

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
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Geosource Inc.**

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CLIENT <b>COCORP</b>	AREA <b>KANSAS LINE #1</b>	STATE <b>KA.</b>	COUNTY <b>Atchison</b>	DATE <b>11-5-79</b>
CREW NO. <b>6834</b>	TERRAIN <b>Hilly</b>	WEATHER <b>Overcast - light Drizzle - Cool</b>		LINE NO. <b>1</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 ~	
1 933	PULSE	1 - 6 Sec.				675	Out	IN	RECORDED SET UP BETWEEN STA.'S 300 & 301 STA.'S 362 & 270 OPEN DUE TO RIVER.
<del>934-935</del>	ELNT	2 - " "							
<del>936-939</del>	DRD	4 - " "							
<del>944-955</del>	SUM TEST	2 - " "							
<del>960-961</del>	NRT. TEST	2 - " "							
6 932	Similarity	1 - 22 Sec		5				50%	
7 129	Wind Strip	1 - 6 Sec.				675			CHECKING LINE. E.O.T. #675
8 130	316	229-312 X 320-331	1			676		30%	BOT. #676. FILE #900-10 SEC. ALL ONE'S. 1-9% CORRELATION MADE ON FILE #130
9 131	318	231-314 X 322-333	3					30%	
10 132	320	233-316 X 324-335	5					70%	
11 133	322	235-318 X 326-337	7					"	
12 134	324	237-320 X 328-339	9					"	
13 135	326	239-322 X 330-341	11					"	
14 136	328	241-324 X 332-343	13					"	
15 137	330	243-326 X 334-345	15			676		"	
16 138	332	245-328 X 336-347	17			677		30%	
17 140	334	247-330 X 338-349	19					30%	
18 141	336	249-332 X 340-351	21					"	
19 142	338	251-334 X 342-353	23					"	
20 143	340	253-336 X 344-355	25					"	
21 144	342	255-338 X 346-357	27					30%	
22 145	344	257-340 X 348-359	29					30%	
23 146	346	259-342 X 350-361	31			677		70%	
24 147	348	261-344 X 352-363	33			678		"	
25 148	350	263-346 X 354-365	35					"	

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY <b>8-40 Hz / 22 Sec.</b>	SWEEP PATTERN <b>660 SOURCE PRRM</b>	SWEEPS PER PATTERN <b>16</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN <b>      222 X 222      </b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>4-9100'S 1-4900</b>	TYPE GEOPHONE <b>ETL-EV23</b>	FREQUENCY <b>25 Hz</b>	STATION INTERVAL <b>220'</b>
REMARKS <b>4 MS. SAMPLE RATE 42 SEC. RECORD LENGTH</b>	OBSERVER <b>SIMMONS</b>		PARTY MGR.		

# OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

Exploration Services  
Division  
Geosource Inc.

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CLIENT <b>COCORP</b>	AREA <b>KANSAS LINE #1</b>	STATE <b>KA.</b>	COUNTY <b>Atchison</b>	DATE <b>11-5-79</b>
CREW NO. <b>6834</b>	TERRAIN <b>Hilly</b>	WEATHER <b>Overcast</b>		LINE NO. <b>1</b>

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP/SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER			REMARKS
							LOCUT	60 ~	50 ~	
1	352	<del>215-248</del> X <del>256-287</del>	37	5		678	OUT	IN	70	
2	354	<del>217-250</del> X <del>258-269</del>	39							
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24										
25										

FINISHED FOR THE DAY

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY <b>8-40 Hz. / 22 SEC.</b>		SWEEP PATTERN <b>60° SCORGE ARRAY</b>		SWEEPS PER PATTERN <b>16</b>	
SWEEP PATTERNS PER SETUP <b>1</b>		PATCH PATTERN <b>      222 X 222      </b>		FREQUENCY <b>2.5 Hz</b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>14-9100'S 1-4900</b>	TYPE GEOPHONE <b>ETL-FV22B</b>	STATION INTERVAL <b>220'</b>	LINE DIR. <b>1 TO 24 E → W</b>
REMARKS <b>4ms SAMPLE RATE 1/2 SEC. RECORD LENGTH</b>			OBSERVER <b>SIMMONS</b>	PARTY MGR.	

OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER

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Geosource Inc.

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CLIENT <b>COCORP</b>		AREA <b>KANSAS LINE #1</b>			STATE <b>KA.</b>		COUNTY <b>Atchison &amp; Jackson</b>		DATE <b>11-6-79</b>		
CREW NO. <b>6834</b>		TERRAIN <b>Hilly</b>			WEATHER <b>CLEAR &amp; COLD</b>				LINE NO. <b>1</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 ~			
1	933	PULSE	1 - 6 SEC.			678	Out	IN	RECORDER SET UP BETWEEN STA'S 337 & 338 * FILE #'S 152-155 ARE OFF 2 CDP POSITIONS (ex. VP#358 267-352X360-371 CDP Position #2. Should have BEEN VP#358 269-354X362-373 CDP Position #4)		
2	935	ELN	2 - " "								
3	939	DRD	4 - " "								
4	954	Sum Est	2 - " "								
5	961	NRI Est	2 - " "								
6	932	Similarity	1 - 22 SEC.	5					50%		
7	151	Wind Strip	1 - 6 SEC.						CHECKING LINE		
8	152	356	267-352X360-371	2					70% 1-96 CORRELATION MADE ON FILE #152.		
9	153	358	269-354X362-373	4		678			30% VP#358 STACKED ON FIRST HALF DUE TO HOUSE. E.OI #678		
10	154	360	271-364X364-375	6	*	679			30% BOT #679. FILE #90-10 SEC. ALL ONE'S. VP#360 STACKED ON LAST HALF		
11	155	362	273-358X366-377	8					70% STANDING BY FOR TRAIN		
12	156	364	277-360X368-379	12					"		
13	157	366	279-362X370-381	14					"		
14	158	368	281-364X372-383	16					"		
15	159	370	283-366X374-385	18					30% VP#370 STACKED ON FIRST HALF		
16	160	372	285-368X376-387	20					30% VP#372 " " LAST "		
17	161	374	287-369X378-389	22		679			30% VP#374 " " FIRST HALF E.OI #679		
18	Skip	376	289-372X380-391	24		680			BOT #680. FILE #90-10 SEC. ALL ONE'S. FILE #162 WIND STRIP.		
19	Skip	378	291-374X382-393	26					VP'S 376 & 378 SKIPPED DUE TO HOUSES.		
20	163	380	293-376X384-395	28					30% 1-96 CORRELATION MADE ON FILE #163. VP#380 STACKED ON FIRST HALF		
21	164	382	295-378X386-397	30					70% STANDING BY FOR ROAD GRADER.		
22	165	384	297-380X388-399	32					" STA#388 OPEN DUE TO BRIDGE. STA#399 OPEN DUE TO INTERSECTION		
23	166	386	299-382X390-401	34					" 3 RAW SWEEPS (FOR DR. KAUFMAN, 21-4000X) (FOR GUILTY CONTROL) MADE ON FILE #162		
24	167	388	301-384X392-403	36					30% STANDING BY FOR TRAIN.		
25	168	390	303-386X394-405	38					FINISHED FOR THE DAY		
TOTAL SETUPS		TOTAL SWEEPS		TOTAL COVERAGE		TOTAL FIELD TIME		DRIVING TIME		SYSTEM NO.	
SWEEP FREQUENCY 8-40 Hz / 22 SEC.		SWEEP PATTERN 660' SOURCE ARRAY		SWEEPS PER PATTERN 16		SWEEP PATTERNS PER SETUP 1		PATCH PATTERN       2222X2222			
GEOPHONES PER PATCH 24		NO. OF RECORDING PATCHES 96		TYPE VIBRATOR 4-1100'S 1-900'		TYPE GEOPHONE LTH-FV22B		FREQUENCY 25 Hz		STATION INTERVAL 220'	LINE DIR. 1 TO 24 E. → W.
REMARKS 4ms SAMPLE RATE 42 SEC. RECORD LENGTH						OBSERVER Simmons		PARTY MGR.			

OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER

Exploration Services  
Division  
Geosource Inc.

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CLIENT <b>COCORP</b>	AREA <b>KANSAS LINE #1</b>	STATE <b>Ka.</b>	COUNTY <b>JACKSON</b>	DATE <b>11-7-79</b>
CREW NO. <b>6834</b>	TERRAIN <b>Hilly</b>	WEATHER <b>Overcast Cold</b>	LINE NO. <b>1</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.				680	Out	IN		RECORDER SET UP BETWEEN STA. 375 & 376
2 934+935	EINT	2 — " "								
3 936-939	DRD	4 — " "								
4 933+934	SUM TEST	2 — " "								
5 940+961	NRI TEST	2 — " "								
6 932	SIMILARITY	1 — 22 SEC.		5		680				50% E.O.I. # 680
7 169	WIND STRIP	1 — 6 SEC.				681				CHECKING LINE, BOT. # 681. FILE # 900-10 SEC ALL ONE'S
8 170	392	305-388 X 396-407	2							70% 1-96 CORRELATION MADE ON FILE # 170
9 171	394	307-390 X 398-409	4							"
10 172	396	309-392 X 400-411	6							30% VP # 396 STACKED ON FIRST HALF DUE TO NOISE
11 173	398	311-394 X 402-413	8							70% VP # 398 " " LAST " " " "
12 174	400	313-396 X 404-415	10							70%
13 175	402	315-398 X 406-417	12			681				70% E.O.I. # 681.
14										
15										STOPPING ON LINE # 1 TO DO LINE # 2 BEFORE
16										CONTINUING WEST ON LINE # 1. PICKING UP
17										LINE # 1 LAYING OUT LINE # 2.
18										
19										
20										
21										
22										
23										
24										
25										

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY <b>8-40 Hz / 22 SEC.</b>	SWEEP PATTERN <b>660' SOURCE ARRAY</b>	SWEEPS PER PATTERN <b>16</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN <b>      222 X 222      </b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR	TYPE GEOPHONE <b>5TL + EV 22B</b>	FREQUENCY <b>? 5 Hz</b>	STATION INTERVAL <b>220'</b>
REMARKS	OBSERVER <b>Simmons</b>		PARTY MGR.		

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DIGITAL VIBROSEIS RECORDER

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CLIENT <b>COCORP</b>	AREA <b>KANSAS WINE #1</b>	STATE <b>KA.</b>	COUNTY <b>Atchison</b>	DATE <b>11-19-79</b>
CREW NO. <b>6834</b>	TERRAIN <b>Hilly</b>	WEATHER <b>CLEAR</b>	LINE NO. <b>1</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 ~	
1	932 Similarity	1 - 22 SEC		5		704	Out	IN	50% BOT #704. FILE #900-10 SEC. ALL ONE'S RECORDER BETWEEN STA'S 381-382
2	176 Wind Strip	1 - 6 SEC.							TAPE #703 Monthly Tests (Ran this Morning) Laying Out
3	177 404	317-400x408-419	8						70% WINE #1-96 CORRELATION MADE ON FILE #
4	178 406	319-402x410-420	10						" STA'S 378 & 399 OPEN DUE TO BRIDGE
5	179 408	321-404x412-423	12						"
6	180 410	323-406x414-425	14						"
7	181 412	325-408x416-427	16						"
8	182 414	327-410x418-429	18						30%
9	183 416	329-412x420-431	20			704			30% EDIT. 704. VP 416 STACKED ON FIRST HALF DUE TO HOUSE
10	SKIP 418	331-414x422-433	22			702			30% BOT #705. FILE #900-10 SEC. ALL ONE'S VP #418 SKIPPED DUE TO HOUSE
11	184 420	333-416x424-435	24						30%
12	185 422	335-418x426-437	26						70%
13	186 424	337-420x428-439	28						"
14	187 426	339-422x430-441	30						30% VP #426 STACKED ON FIRST HALF DUE TO HOUSE
15	SKIP 428	341-424x432-443	32						VP #428 SKIPPED DUE TO HOUSE
16									FINISHED FOR THE DAY
17									
18									
19									
20									
21									
22									
23									
24									
25									

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8-40Hz / 22 SEC.	SWEEP PATTERN 660' SOURCE AREA	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN      22222222	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-1100'S 1-4900	TYPE GEOPHONE ETL-EV22B	FREQUENCY ? 5 Hz	STATION INTERVAL 220'
REMARKS 4ms SAMPLE RATE	4/2 SEC RECORD LENGTH	OBSERVER Symon/S	PARTY MGR.	LINE DIR. 1 TO 24 E → W	

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DIGITAL VIBROSEIS RECORDER

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CLIENT **COCORP** AREA **KANSAS LINE # 1** STATE **Ka.** COUNTY **Atchison** DATE **11-26-79**  
 CREW NO. **6834** TERRAIN **Hilly** WEATHER **CLEAR** LINE NO. **1**

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDF SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER			REMARKS
							LOCUT	60 ~	HP	
1	935	PULSE	1			705	Out	IN		RECORDER SET UP BETWEEN STA.'S 413 & 414
2	936	FINI	2							LINE EXTREMELY WET DUE TO HEAVY RAINS
3	937	DRD	4							OVER HOLIDAYS. STA.'S 398 & 399 OPEN DUE TO
4	938	SUM EST	2							BRIDGE & INTERSECTION
5	939	NET EST	2							
6	932	SIMILARITY	1						50%	CHECKING WINE
7	189	WIND STRIP	1							IP# 430 SKIPPED DUE TO PIPE LINE
8	SKIP	430		5					30%	1-96 CORRELATION MADE ON FILE # 189. IP# 432 STACKED ON LAST HALF
9	189	432							70%	E.O.T. # 705
10	190	434				705				
11	191	436				706				30. T. # 706. FILE # 900-10 sec. ALL ONE'S
12	192	438								
13	193	440								
14	194	442								
15	195	444								
16	196	446								
17	197	448								
18	198	450				706				E.O.T. # 706
19	200	452				707				B.O.T. # 707. FILE # 900-10 sec. ALL ONE'S. FILE # 199 WIND STRIP
20	201	454								1-96 CORRELATION MADE ON FILE # 200
21	202	456								
22	203	458								
23	204	460								30% IP# 460 STACKED ON FIRST HALF DUE TO HOUSE
24	205	462								30% IP# 462 " " " " " "
25	206	464								70% 3 PA. SWEEPS (FOR Dr. Kaufman) 21-484-96 (FOR Quality Control) MADE ON FILE # 206

TOTAL SETUPS \_\_\_\_\_ TOTAL SWEEPS \_\_\_\_\_ TOTAL COVERAGE \_\_\_\_\_ TOTAL FIELD TIME \_\_\_\_\_ DRIVING TIME \_\_\_\_\_ SYSTEM NO. \_\_\_\_\_

SWEEP FREQUENCY **8-40 Hz / 22 SEC** SWEEP PATTERN **660' SOURCE ARRAY** SWEEPS PER PATTERN **16** SWEEP PATTERNS PER SETUP **1** PATCH PATTERN **|||||22222222|||||**

GEOPHONES PER PATCH **24** NO. OF RECORDING PATCHES **96** TYPE VIBRATOR **14-9100'S 1-4900** TYPE GEOPHONE **5TB-FV22B** FREQUENCY **25 Hz.** STATION INTERVAL **220'** LINE DIR. **1 TO 24 E → W.**

REMARKS **4 MS. SAMPLE RATE 42 SEC RECORD LENGTH** OBSERVER **SIMMONS** PARTY MGR. \_\_\_\_\_

GEO-252-B

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

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CLIENT <b>COCORP</b>	AREA <b>KANSAS LINE #1</b>	STATE <b>KA.</b>	COUNTY <b>JACKISON</b>	DATE <b>11-26-79</b>
CREW NO. <b>6834</b>	TERRAIN <b>Hilly</b>	WEATHER <b>Overcast</b>	LINE NO. <b>1</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 GAIN	
1	466	379-462X470-481	38	5		707	Out	IN	30%	5:01 # 707
2										
3										FINISHED FOR THE DAY
4										
5										
6										
7										
8										
9										
10										
11										
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 <b>8-40 Hz / 22 SEC.</b>	SWEEP PATTERN <b>660' SOURCE ARRAY</b>	SWEEPS PER PATTERN <b>16</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN <b>      222 X 222      </b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>4-4100'S 1-4900</b>	TYPE GEOPHONE <b>ETH-EV22B</b>	FREQUENCY <b>25 Hz.</b>	STATION INTERVAL <b>220'</b>
REMARKS <b>4ms SAMPLE RATE 47 SEC. RECORD LENGTH</b>	OBSERVER <b>SIMMONS</b>		PARTY MGR.		

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DIGITAL VIBROSEIS RECORDER

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CLIENT <b>COCORP</b>	AREA <b>KANISAS LINE #1</b>	STATE <b>KA.</b>	COUNTY <b>JACKSON</b>	DATE <b>11-28-79</b>
CREW NO. <b>6834</b>	TERRAIN <b>Hilly</b>	WEATHER <b>Overcast-Cold-Windy</b>	LINE NO. <b>1</b>	

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER		REMARKS
							LOCUT	60 ~	
1	PULSE	1 - 6 SEC				708	Out	In	RECORDER SET UP BETWEEN STA'S 451 & 452
2	EINT	2 - " "							301. #708. FILE #900-10 SEC. ALL ONE'S. SLIGHT SNOW
3	DRD	4 - " "							FLURRY. DOWN DUE TO ROAD GRADER PULLING UP & CUTTING CABLES & PHONES. TALKED TO DRIVER OF COUNTY GRADER
4	SUM TEST	2 - " "							NO COOPERATION. GOING DOWN ENTIRE LINE GETTING
5	NRT TEST	2 - " "							PHONES & CABLES AS FAR AS POSSIBLE OFF ROAD TO PREVENT
6	Similarity	1 - 2.2 SEC		5					CHECKING WIRE. VENT. FURTHER DAMAGE TO EQUIPMENT
7	Wind Strip	1 - 6 SEC							30% 1-96 CORRELATION MADE ON FILE #
8	468	381-464X472-483	2	4					PLANT PHONES AS SOON AS WIRE IS CLEAR OF ROAD
9	470	383-466X474-485	4	↑					" 1/13 12666 DOWN DUE TO HYDRAULIC PROBLEM
10	472	385-468X476-487	6	↓					14 STRINGS OF PHONES & 2 CABLES CUT ABOUT 33 STA'S
11	<del>scribble</del>								PULLED UP AND DRUG DOWN THE LINE.
12	<del>scribble</del>								FINISHED FOR THE DAY
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 <b>8-40 Hz. / 2.2 SEC</b>		SWEEP PATTERN <b>660' SOURCE ARRAY</b>		SWEEPS PER PATTERN <b>16</b>	
SWEEP PATTERNS PER SETUP <b>1</b>		PATCH PATTERN <b>      2222 2222      </b>			
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>4-41100' 1-4900</b>	TYPE GEOPHONE <b>ETL-EV22B</b>	FREQUENCY <b>25 Hz.</b>	STATION INTERVAL <b>220'</b>
REMARKS <b>4ms SAMPLE RATE 4.2 SEC. RECORD LENGTH</b>			OBSERVER <b>Simmons</b>	LINE DIR. 1 TO 24 <b>E. → W.</b>	

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CLIENT	COCORP	AREA	KANSAS LINE #1	STATE	Ka.	COUNTY	Jackson	DATE	11-29-79
CREW NO.	6834	TERRAIN	Hilly	WEATHER	Overcast - Cold - Windy			LINE NO.	1

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 ~	
1	PULSE	1 - 6 SEC				708	Out	IN	RECORDER SET UP BETWEEN STA'S 458-459
2	EINT	2 - " "				↑	↑	↑	STA'S 398 & 399 OPEN DUE TO BRIDGE & INTERSECTION.
3	DRD	4 - " "							VIB # 12666 DOWN DUE TO HYDRAULIC PROBLEM.
4	SUM TEST	2 - " "							
5	NRJ TEST	2 - " "							
6	Similarity	1 - 22 SEC		4					50%
7	Wind Strip	1 - 6 SEC		↑		708			CHECKING LINE EOL # 708
8	474	387-470X478-489	1			709			70% BOT. # 709. FILE # 900-10 SEC. ALL ONE'S. 1-96 CORR. MADE ON FILE # 215
9	476	399-492X480-491	3			↑			30% VP # 476 STACKED ON FIRST HALF DUE TO HOUSE
10	478	391-474X482-493	5						30% " 478 " " LAST " " " "
11	480	393-476X484-495	7						70%
12	482	395-478X486-497	9						70%
13	484	397-480X488-499	11						30% VP # 484 STACKED ON LAST HALF DUE TO HOUSE
14	486	399-481X490-501	13			↓			70%
15	488	401-484X492-503	15			709			" EOL # 709
16	490	403-486X494-505	17			710			" BOT. # 710. FILE # 900-10 SEC. ALL ONE'S
17	492	405-488X496-507	19			↑			"
18	494	407-490X498-509	21						"
19	496	409-492X500-511	23						"
20	498	411-494X502-513	25						"
21	500	413-496X504-515	27						" STA'S # 519 & 520 OPEN DUE TO CROSSING OF HWYWAY # 75
22	502	415-498X506-517	29			↓			"
23	504	417-500X508-519	31			710			" EOL # 710 RAW SWEEP MADE ON FILE # 228
24	506	419-502X510-521	33			711			30% BOT. # 711. FILE # 900-10 SEC. ALL ONE'S. FILE # 229 WIND STRIP
25	SKIP	421-504X512-523	35	↓		↓			VP # 508 SKIPPED DUE TO HOUSE

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
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SWEEP FREQUENCY	SWEEP PATTERN	SWEEPS PER PATTERN	SWEEP PATTERNS PER SETUP	PATCH PATTERN
8-40 Hz / 22 SEC	660' SOURCE PATTERN	16	1	2222X2221
GEOPHONES PER PATCH	NO. OF RECORDING PATCHES	TYPE VIBRATOR	TYPE GEOPHONE	FREQUENCY
24	96	#-41100'S 1-4900	ETH-EV22B	75 Hz
REMARKS	STATION INTERVAL	LINE DIR.	PARTY MGR.	
4ms SAMPLE RATE	220'	E. → W.		

REMARKS: 4ms SAMPLE RATE 42 SEC. RECORD LENGTH OBSERVER: SIMMONS

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CLIENT <b>COCORP</b>	AREA <b>KANSAS LINE #1</b>	STATE <b>KA.</b>	COUNTY <b>JACKSON</b>	DATE <b>11-29-79</b>
CREW NO. <b>6834</b>	TERRAIN <b>Hilly</b>	WEATHER <b>Overcast-Cold-Windy</b>		LINE NO. <b>1</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 ~	
1	510	423-506X514-525	37	4		711	Out	IN	UP# 510 STACKED ON LAST HALF DUE TO HOUSE
2	512	425-508X516-527	39	↑		↑	↑	↑	1-9% CORRELATION MADE ON FILE # 232
3	514	427-510X518-529	41	↑		↑	↑	↑	
4	SKIP	429-512X520-531	43	↓		↓	↓	↓	VP'S 516-520 SKIPPED DUE TO HOUSE & HWYWAY # 75
5	SKIP	431-514X522-533	45	↓		↓	↓	↓	
6	SKIP	433-516X524-535	47	↓		↓	↓	↓	FINISHED FOR THE DAY
7									
8									
9									
10									
11									
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 <b>8-40 Hz / 22 SEC.</b>		SWEEP PATTERN <b>660'S SOURCE ARRAY</b>		SWEEPS PER PATTERN <b>16</b>	
SWEEP PATTERNS PER SETUP <b>1</b>		PATCH PATTERN <b>      222 X 222      </b>			
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>B-1100'S 1-1900</b>	TYPE GEOPHONE <b>ETH-EV22B</b>	FREQUENCY <b>2.5 Hz</b>	STATION INTERVAL <b>220'</b>
REMARKS <b>4ms SAMPLE RATE 4 1/2 SEC RECORD LENGTH</b>			OBSERVER <b>SIMMONS</b>	PARTY MGR.	

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CLIENT <b>COCORP</b>	AREA <b>KANSAS LINE</b>	STATE <b>KA.</b>	COUNTY <b>JACKSON</b>	DATE <b>11-30-79</b>
CREW NO. <b>6834</b>	TERRAIN <b>HILLY</b>	WEATHER <b>CLEAR-COLD</b>		LINE NO. <b>1</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~	%	
1 933	PULSE	1 - 6 SEC				711	Out	IN		RECORDER SET UP BETWEEN STA'S 505 & 506
<del>934</del>	<del>FINI</del>	<del>2 - " "</del>								<del>STA'S 519 &amp; 520 OPEN DUE TO HWY # 75</del>
<del>935</del>	<del>DRD</del>	<del>4 - " "</del>								<del>VIB # 121667 DOWN WITH HYDRAULIC PROBLEMS</del>
<del>936</del>	<del>SUM. TEST</del>	<del>2 - " "</del>								
<del>937</del>	<del>NRJ TEST</del>	<del>2 - " "</del>								
6 932	Similarity	1 - 22 SEC		4					50%	
7 235	WIND STRIP	1 - 6 SEC								CHECKING LINE
8 236	522	435-518X526-537	2			711			70%	1-96 CORRELATION MADE ON FILE # 236
9 237	524	437-520X528-539	4			711			"	E.O.T # 711
10 238	526	439-522X530-541	6			712			30%	B.O.T # 712. FILE # 900-10 SEC ALL ONE'S VP # 526 STACKED ON
11 239	528	441-524X532-543	8						30%	FIRST HALF DUE TO HOUSE. VP # 528 STACKED ON LAST HALF
12 240	530	443-526X534-545	10						70%	
13 241	532	445-528X536-547	12						"	
14 242	534	447-530X538-549	14						30%	VP # 534 STACKED ON FIRST HALF DUE TO HOUSE.
15 243	536	449-532X540-551	16						30%	" 536 " " LAST " " " "
16 244	538	451-534X542-553	18						30%	" 538 " " FIRST " " " "
17 245	540	453-536X544-555	20							VP 540 SKIPPED DUE TO HOUSE
18 246	542	455-538X546-557	22			712			30%	E.O.T # 712.
19 247	544	457-540X548-559	24			713			70%	B.O.T # 713. FILE # 900-10 SEC ALL ONE'S. FILE # 246 WIND STRIP.
20 248	546	459-542X550-561	26						"	RAW SWEEP MADE ON FILE # 248
21 249	548	461-544X552-563	28						"	1-96 CORRELATION MADE ON FILE # 249
22 250	550	463-546X554-565	30						"	
23 251	552	465-548X556-567	32						"	
24 252	554	467-550X558-569	34						"	
25 253	556	469-552X560-571	36						"	2 RAW SWEEPS (1-48 & 96) FOR QUALITY CONTROL MADE ON FILE # 253

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8-40 Hz / 22 SEC		SWEEP PATTERN 660 SOURCE ARRAY		SWEEPS PER PATTERN 16	
SWEPT PATTERNS PER SETUP 1		PATCH PATTERN      2222X2222			
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-4100 1-4900	TYPE GEOPHONE ETW-EV22	FREQUENCY 25 Hz	STATION INTERVAL 220'
REMARKS 4ms. SAMPLE RATE 4/2 SEC RECORD LENGTH			OBSERVER SIMMONS	LINE DIR. 1 TO 24 E → W	

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CLIENT <b>COCORP</b>	AREA <b>KANSAS WINE #1</b>	STATE <b>KA</b>	COUNTY <b>JACKSON</b>	DATE <b>11-30-79</b>
CREW NO. <b>6834</b>	TERRAIN <b>Hilly</b>	WEATHER <b>CLEAR - <del>Windy</del> COLD</b>	LINE NO. <b>1</b>	

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER			REMARKS
							LOCUT	60~	% SINE	
1	558	471-554X562-573	38	4		713	Out	IN	30%	VP# 558 Stacked On First half Due to house E.OI. *713
2	560	473-556X564-575	40	↑		714	↑	↑	30%	BOT. 714. FILE #900-10 SEC ALL ONE'S
3	562	475-558X566-577	42	↓			↓	↓	70%	
4										
5										
6										FINISHED FOR THE DAY
7										
8										
9										
10										
11										
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 <b>8-40Hz/22 SEC</b>	SWEEP PATTERN <b>660' SOURCE ARRAY</b>	SWEEPS PER PATTERN <b>16</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN <b>     222<sup>x</sup>222     </b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>3-4100'S 1-4900</b>	TYPE GEOPHONE <b>ETL-EL22B</b>	FREQUENCY <b>25 Hz</b>	STATION INTERVAL <b>220'</b>
REMARKS <b>4ms. Sample Rate 42 sec. Record Length</b>	OBSERVER <b>Simmons</b>		LINE DIR. <b>1 TO 24 E → W</b>		

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CLIENT <b>COCORP</b>	AREA <b>KANSAS WINE #1</b>	STATE <b>Ka.</b>	COUNTY <b>JACKSON</b>	DATE <b>12-1-79</b>
CREW NO. <b>6834</b>	TERRAIN <b>Hilly</b>	WEATHER <b>Overcast - Cold</b>		LINE NO. <b>1</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 GAIN	
1	933	PULSE	1 - 6 SEC.			714	OUT	TN		RECORDER SET UP BETWEEN STA.'S 548 & 549
<del>2</del>	<del>935</del>	EINT	2 - " "							STA.'S 519 & 520 OPEN DUE TO HIGHWAY # 75
<del>3</del>	<del>936</del>	DRD	4 - " "							
<del>4</del>	<del>937</del>	SUM EST	2 - " "							
<del>5</del>	<del>938</del>	NRT TEST	2 - " "							
6	932	SIMILARITY	1 - 22 SEC.						50%	
7	257	WIND STRIP	1 - 6 SEC.							CHECKING WINE
8	258	564	477-560X568-579	1					30%	1-96 CORRELATION MADE ON FILE # 258. UP # 564 STACKED ON FIRST HALF
9	SKIP	566	479-562X570-581	3						UP # 566 SKIPPED DUE TO HOUSE
10	259	568	481-564X572-583	5					30%	UP # 568 STACKED ON FIRST HALF
11	SKIP	570	483-566X574-585	7						UP # 570 SKIPPED DUE TO HOUSE
12	260	572	485-568X576-587	9					30%	UP # 572 STACKED ON LAST HALF
13	261	574	487-570X578-589	11		714			70%	E.O.I. # 714
14	262	576	489-572X590-591	13		715			30%	BOT # 715. FILE # 900-10 SEC. ALL ONE'S. UP # 576 STACKED ON LAST HALF
15	SKIP	578	491-574X582-593	15						UP # 578-582 SKIPPED DUE TO CEMETERY & HOUSES
16	SKIP	580	493-576X584-595	17						
17	SKIP	582	495-578X586-597	19						
18	263	584	497-580X588-599	21					30%	UP # 584 STACKED ON LAST HALF
19	264	586	499-582X590-601	23					70%	
20	265	588	501-584X592-603	25					"	
21	266	590	503-586X594-605	27					"	
22	267	592	505-588X596-607	29					"	
23	268	594	507-590X598-609	31					"	
24	269	596	509-592X600-611	33		715			"	E.O.I. # 715. 1-96 CORRELATION MADE ON FILE # 271
25	271	598	511-594X602-613	35		716			"	BOT # 716. FILE # 900-10 SEC. ALL ONE'S. FILE # 270 WIND STRIP

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8-40 Hz / 22 SEC.		SWEEP PATTERN 660' SOURCE ARRAY		SWEEPS PER PATTERN 16	
SWEEP PATTERNS PER SETUP 1		PATCH PATTERN       222 x 222		GEOPHONES PER PATCH 24	
NO. OF RECORDING PATCHES 96		TYPE VIBRATOR 14-41100'S 1-4900'		TYPE GEOPHONE ETL-ENV22B	
FREQUENCY 7.5 Hz		STATION INTERVAL 220'		LINE DIR. E. → W.	
REMARKS 4 hrs SAMPLE RATE 42 SEC. RECORD LENGTH			OBSERVER SIMMONS		

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DIGITAL VIBROSEIS RECORDER

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CLIENT <b>COCORP</b>	AREA <b>KANSAS LINE #1</b>	STATE <b>KA.</b>	COUNTY <b>JACKSON &amp; NEMAH</b>	DATE <b>12-1-79</b>
CREW NO. <b>6834</b>	TERRAIN <b>Hilly</b>	WEATHER <b>CLEAR - COLD</b>		LINE NO. <b>1</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 ~	% ATTEN		
1	272	600	513-596X604-615	37	5		716	Out	IN	70%	RAW SWEEP MADE ON FILE # 272
2	273	602	515-598X606-617	39						"	"
3	274	604	517-600X608-619	41						"	RECORDER MOVE
4	275	606	519-602X610-621	31						"	RECORDER SETUP BETWEEN STA'S 560 & 561
5	276	608	521-604X612-623	33						30%	UP # 608 STACKED ON FIRST HALF DUE TO HOUSE
6	SKIP	610	523-606X614-625	35							V.P. # 610 SKIPPED DUE TO HOUSE
7	277	612	525-608X616-627	37						50%	UP # 612 STACKED ON LAST HALF
8	278	614	527-610X618-629	39			716			50%	LOT # 716
9	SKIP	616	529-612X620-631	41							UP # 616 SKIPPED DUE TO HOUSE
10											FINISHED FOR THE DAY
11											
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 <b>8-40 Hz / 22 SEC</b>		SWEEP PATTERN <b>660 SOURCE ARRAY</b>		SWEEPS PER PATTERN <b>16</b>	
SWEEP PATTERNS PER SETUP <b>1</b>		PATCH PATTERN <b>     2222X2222     </b>			
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>14-21100<sup>1.5</sup> 1-2900</b>	TYPE GEOPHONE <b>5TB-EV22B</b>	FREQUENCY <b>25 Hz</b>	STATION INTERVAL <b>220'</b>
REMARKS <b>4ms SAMPLE RATE 4 1/2 SEC. RECORD LENGTH</b>			OBSERVER <b>SIMMONS</b>	LINE DIR. 1 TO 24 <b>E → W</b>	
			PARTY MGR.		

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DIGITAL VIBROSEIS RECORDER

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CLIENT <b>COCORP</b>	AREA <b>KANSAS LINE #1</b>	STATE <b>KA.</b>	COUNTY <b>Jackson + Nemaha</b>	DATE <b>12-3-79</b>
CREW NO. <b>6834</b>	TERRAIN <b>Hilly</b>	WEATHER <b>Overcast - Cold - Windy</b>	LINE NO. <b>1</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 ~	
1 933	Pulse	1 - 6 Sec.				717	Out	IN	RECORDER SET UP BETWEEN STA.'S 602-603
2 934	EINI	2 - " "							BOT # 717. FILE # 900-10 SEC. ALL ONE'S
3 936	DRD	4 - " "							
4 934	Sum Test	2 - " "							
5 940	NRI TEST	2 - " "							
6 953	Simharity	1 - 22 SEC.		5					50%
7 279	Wind Strip	1 - 6 SEC.							CHECKING LINE
8 280	618	531-614 X 622-633	1						30% 1-96 CORRELATION MADE ON FILE # 280
9 281	620	533-616 X 624-635	3						70% WIND PICKING UP.
10 282	622	535-618 X 626-637	5						"
11 285	624	537-620 X 628-639	7						" High POWER LINE ACROSS STA. # 639, High GROUND CURRENT.
12 284	626	539-622 X 630-641	9						"
13 285	628	541-624 X 632-643	11			717			30% E.O.T. # 717. VP # 628 STACKED ON FIRST HALF DUE TO HOUSE
14 287	630	543-626 X 634-645	13			718			30% BOT. # 718. FILE # 900-10 SEC. ALL ONE'S. FILE # 286 WIND STRIP
15 288	632	545-628 X 636-647	15						70% VP # 630 STACKED ON LAST HALF DUE TO HOUSE.
16 289	634	547-630 X 638-649	17						"
17 290	636	549-632 X 640-651	19						" 3 RAW SWEEPS (FOR DEKRAUTHMAN, 21-1099-96 / FOR QUILTY, CONED) MADE ON FILE # 290.
18 291	638	551-634 X 642-653	21						"
19 292	640	553-636 X 644-655	23						30% VP # 640 STACKED ON FIRST HALF DUE TO HOUSE
20 SKIP	642	555-638 X 646-657	25						VP # 642, SKIPPED DUE TO HOUSE & WELL.
21 293	644	557-640 X 648-659	27						30% VP # 644 STACKED ON LAST HALF. 1-96 CORRELATION MADE ON FILE # 293
22 294	646	559-642 X 650-661	29			718			70% E.O.T. # 718
23 295	648	561-644 X 652-663	31			719			" BOT. # 719. FILE # 900-10 SEC. ALL ONE'S
24 296	650	563-646 X 654-665	33						"
25 297	652	565-648 X 656-667	35						"

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8-40 Hz / 22 SEC.		SWEEP PATTERN 660' SOURCE ARRAY		SWEEPS PER PATTERN 16	
GEOPHONES PER PATCH 24		NO. OF RECORDING PATCHES 96		TYPE VIBRATOR 4-4100'S 1-4900	
TYPE GEOPHONE ETL-EV22B		FREQUENCY 25 Hz.		STATION INTERVAL 220'	
REMARKS 4ms SAMPLE RATE 42 SEC RECORD LENGTH		OBSERVER SIMMONS		PARTY MGR.	

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CLIENT **COCORP** AREA **KANSAS LINE #1** STATE **KA** COUNTY **JACKSON-NEMAHA** DATE **12-3-79**  
 CREW NO. **6834** TERRAIN **Hilly** WEATHER **Overcast - Cold** LINE NO. **1**

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDF SW.	NO VIB	AMP GAIN	TAPE RL. NO.	F I L T E R			RE MARKS
							LOCUT	60 ~	30 ~	
1	654	567-650X658-669	37	5		719	Out	IN	70%	
2	656	570-652X660-671	39	↑		↑	↑	↑	11	
3	658	571-654X662-673	41						11	RECORDED MOWE
4	660	575-656X664-675	30						30%	RECORDER SET UP BETWEEN STA'S 615 & 616
5	662	575-658X666-677	32						30%	UP# 662 SKIPPED DUE TO HOUSE & BARN
6	664	577-660X668-679	34	↓		719	↓	↓	30%	E.O.T. # 719
7										
8										FINISHED FOR THE DAY
9										
10										
11										
12										
13										
14										
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21										
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23										
24										
25										

TOTAL SETUPS: \_\_\_\_\_ TOTAL SWEEPS: \_\_\_\_\_ TOTAL COVERAGE: \_\_\_\_\_ TOTAL FIELD TIME: \_\_\_\_\_ DRIVING TIME: \_\_\_\_\_ SYSTEM NO.: \_\_\_\_\_

SWEEP FREQUENCY: **8-40 Hz / 22 SEC.** SWEEP PATTERN: **660'S SOURCE AREA** SWEEPS PER PATTERN: **16** SWEEP PATTERNS PER SETUP: **1** PATCH PATTERN: **||||| 2222 2222 |||||**

GEOPHONES PER PATCH: **24** NO. OF RECORDING PATCHES: **96** TYPE VIBRATOR: **4-4100'S 1-4900** TYPE GEOPHONE: **ETH-EV22B** FREQUENCY: **25 Hz** STATION INTERVAL: **220'** LINE DIR. 1 TO 24: **E. → W.**

REMARKS: **4 hrs SAMPLE RATE 42 SEC. RECORD LENGTH** OBSERVER: **SIMMONS** PARTY MGR.: \_\_\_\_\_

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CLIENT	COCORP	AREA	KANSAS WINE #1	STATE	KA.	COUNTY	Jackson & Nemaha	DATE	12-4-79
CREW NO.	6834	TERRAIN	Hilly	WEATHER	CLEAR-WINDY	LINE NO.	1		

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER			REMARKS
							LOCUT	60~	AMP	
1	933	PULSE	1			720	Out	IN		BOI #720. FILE #900-10 SEC. ALL ONE'S
<del>2</del>	<del>935</del>	<del>EINT</del>	<del>2</del>							RECORDER SET UP BETWEEN STA'S 651 & 652
<del>3</del>	<del>936</del>	<del>DRD</del>	<del>4</del>							WIND PICKING UP, High Gusts. Picking up ENERGY SOURCE FROM SEISMIC RESOURCE CREW IN AREA. CONTACTED CREW AND WAS TOLD THEY
<del>4</del>	<del>934</del>	<del>SUM TEST</del>	<del>2</del>							COULD NOT SHUT DOWN DUE TO BEING BEHIND IN HOURS.
<del>5</del>	<del>936</del>	<del>NRT TEST</del>	<del>2</del>							CHECKING WINE
6	932	Similarity	1						50%	
7	303	WIND STRIP	1							
8	304	666	577-662X670-681	240					70%	1-96 CORRELATION MADE ON FILE #304. FILE #304 OFF
9	305	668	581-664X672-685	3					"	ICDP POSITION (WAS IN POS. #1 SHOULD HAVE BEEN IN POS #240)
10	306	670	583-666X674-685	4					"	
11	307	672	585-668X676-687	6					"	
12	308	674	587-670X678-689	8					"	
13	309	676	589-672X680-691	10		720			"	EOI #720
14	310	678	591-674X682-693	12		721			"	BOI #721. FILE #900-10 SEC. ALL ONE'S
15	311	680	593-676X684-695	14					"	
16	312	682	595-678X686-697	16					"	
17	313	684	597-680X688-699	18					"	
18	314	686	599-682X690-701	20					"	RAW SWEEP MADE ON FILE #314
19	315	688	601-684X692-703	22					"	
20	316	690	603-686X694-705	24					"	
21	317	692	605-688X696-707	26		721			"	EOI #721
22	318	694	607-690X698-709	28		722			"	BOI #722. FILE #900-10 SEC. ALL ONE'S. FILE #318 WIND STRIP
23	320	696	609-692X700-711	30					"	STA #708 OPEN DUE TO BRIDGE
24	321	698	611-694X702-713	32					30%	UP #698 STACKED ON FIRST HALF DUE TO HOUSE
25	5KID	700	613-696X704-715	34						D.P. #700 SKIPPED DUE TO HOUSE

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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	
8-40 Hz / 22 SEC.	660 SOURCE ARRAY	16	1	2222 2222	
GEOPHONES PER PATCH	NO. OF RECORDING PATCHES	TYPE VIBRATOR	TYPE GEOPHONE	FREQUENCY	STATION INTERVAL
24	96	4-41100'S 1-4900	ETH-EV22	25 Hz	220'
REMARKS	OBSERVER		PARTY MGR.		
4ms. SAMPLE RATE 42 SEC. RECORD LENGTH	SIMMONS				

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CLIENT <b>COCORP</b>	AREA <b>KANSAS WINE #1</b>	STATE <b>KA.</b>	COUNTY <b>NEMAH</b>	DATE <b>12-4-79</b>
CREW NO. <b>6834</b>	TERRAIN <b>Hilly</b>	WEATHER <b>CLEAR - WINDY</b>		LINE NO. <b>1</b>

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER			REMARKS
							LOCUT	60~	30~	
1	702	615-688x706-717	36	5		722	Out	IN	30%	UP # 704 & 706 SKIPPED DUE TO TRAILER & HOUSE
2	704	617-700x708-719	38	↑		↑	↑	↑		
3	706	619-702x710-721	40	↑		↑	↑	↑		
4	708	621-704x712-723	42	↓		↓	↓	↓	30%	
5										FINISHED FOR THE DAY
6										
7										
8										
9										
10										
11										
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 <b>8-40Hz/22sec.</b>		SWEEP PATTERN <b>660' SOURCE ARRAY</b>		SWEEPS PER PATTERN <b>16</b>	
SWEEP PATTERNS PER SETUP <b>1</b>		PATCH PATTERN <b>      222 x 222      </b>		FREQUENCY <b>251Hz</b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>4-9100'S 1-4900</b>	TYPE GEOPHONE <b>5TW-FV22B</b>	STATION INTERVAL <b>220'</b>	LINE DIR. <b>1 TO 24 E. → W.</b>
REMARKS <b>4ms. SAMPLE RATE 42 SEC. RECORD LENGTH.</b>			OBSERVER <b>SIMMONS</b>	PARTY MGR.	

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CLIENT **COCORP** AREA **KANSAS WINE #1** STATE **Ka.** COUNTY **Nemaha** DATE **12-5-79**  
 CREW NO. **6834** TERRAIN **Hills** WEATHER **Overcast - Windy** LINE NO. **1**

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER			REMARKS
							LOCUT	60~	96~	
1 933	PULSE	1 - 6 SEC.				722	Out	IN		RECORDER SET UP BETWEEN STA'S 694 & 695
<del>2 935</del>	EINI	2 - " "								WIND PICKING UP, BECOMING EXTREMELY GUSTY
<del>3 936</del>	DRD	4 - " "								ROAD GRADER WORKING ON WINE.
<del>4 937</del>	SUM TEST	2 - " "								STA. # 808 OPEN DUE TO BRIDGE.
<del>5 938</del>	NRT TEST	2 - " "								
6 932	Similarity	1 - 22 SEC.		5					50%	CHECKING WINE. E.O.T. # 722
7 324	Wind Strip	1 - 6 SEC.				722				30% BOT. # 723 FILE # 900-10 SEC. ALL ONE'S. 1-96 CORR. MADE ON FILE # 325
8 325	710	623-706X714-725	1			723				UP # 712 SKIPPED DUE TO HOUSE.
9 326	712	625-708X716-727	3							UP # 714 STACKED ON LAST HALF DUE TO HOUSE
10 327	714	627-710X718-729	5							30% " 716 " " FIRST " " " CEMETERY.
11 328	716	629-712X720-731	7							" 718 SKIPPED DUE TO CEMETERY
12 329	718	631-714X722-733	9							30% " 720 STACKED ON LAST HALF
13 330	720	633-716X724-735	11							30% " 722 " " FIRST "
14 331	722	635-718X726-737	13							UP 724 SKIPPED DUE TO WATER WELL
15 332	724	637-720X728-739	15							30% U.P. # 726 STACKED ON LAST HALF
16 333	726	639-722X730-741	17							50% " 728 " " FIRST "
17 334	728	641-724X732-743	19							30% E.O.T. # 723
18 335	730	643-726X734-745	21			723				70% BOT. # 724. FILE # 900-10 SEC. ALL ONE'S. FILE # 333 Wind Strip
19 336	732	645-728X736-747	23			724				"
20 337	734	647-730X738-749	25							"
21 338	736	649-732X740-751	27							"
22 339	738	651-734X742-753	29							"
23 340	740	653-736X744-755	31							RAW SWEEP MADE ON FILE # 339
24 341	742	655-738X746-757	33							"
25 342	744	657-740X748-759	35							"

TOTAL SETUPS: \_\_\_\_\_ TOTAL SWEEPS: \_\_\_\_\_ TOTAL COVERAGE: \_\_\_\_\_ TOTAL FIELD TIME: \_\_\_\_\_ DRIVING TIME: \_\_\_\_\_ SYSTEM NO.: \_\_\_\_\_

SWEEP FREQUENCY: **8-40 Hz / 22 SEC.** SWEEP PATTERN: **660'S SOURCE ARRAY** SWEEPS PER PATTERN: **16** SWEEP PATTERNS PER SETUP: **1** PATCH PATTERN: **||||| 2222X2221 |||||**

GEOPHONES PER PATCH: **24** NO. OF RECORDING PATCHES: **96** TYPE VIBRATOR: **14-4100'S 1-4900** TYPE GEOPHONE: **ETH-EV22B** FREQUENCY: **25 Hz.** STATION INTERVAL: **220'** LINE DIR. 1 TO 24: **E. → W.**

REMARKS: **4ms. Sample Rate 42 sec. Record Length** OBSERVER: **SIMMONS** PARTY MGR.: \_\_\_\_\_

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CLIENT <b>COCORP</b>	AREA <b>KANSAS LINE #1</b>	STATE <b>KA</b>	COUNTY <b>NEMAHA</b>	DATE <b>12-5-79</b>
CREW NO. <b>6834</b>	TERRAIN <b>Hilly</b>	WEATHER <b>Overcast - Windy</b>		LINE NO. <b>1</b>

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER			REMARKS
							LOCUT	60~	%	
1	746	659-746X750-761	37	5		724	Out	IN		501 #724
2	748	661-744X752-763	39	↑		725	↑	↑	30%	BOT #725 FILE #900-10 SEC. ALL ONE'S
3	750	665-746X751-765	41	↓						D.P. #750 SKIPPED DUE TO HOUSE.
4	752	665-748X766-767	42	↓					30%	" 752 STACKED ON LAST HALF
5										
6										FINISHED FOR THE DAY
7										
8										
9										
10										
11										
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 <b>8-40Hz / 22 SEC.</b>		SWEEP PATTERN <b>660' SOURCE ARRAY</b>		SWEEPS PER PATTERN <b>16</b>	
SWEEP PATTERNS PER SETUP <b>1</b>		PATCH PATTERN <b>     222X222     </b>			
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>4-4100'S 1-4900</b>	TYPE GEOPHONE <b>ETH-EV22B</b>	FREQUENCY <b>?5 Hz</b>	STATION INTERVAL <b>220'</b>
REMARKS <b>4ms. SAMPLE RATE 4/2 SEC. RECORD LENGTH</b>			OBSERVER <b>SIMMONS</b>	LINE DIR. 1 TO 24 <b>E → W</b>	
			PARTY MGR.		

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CLIENT <b>COCORP</b>	AREA <b>KANSAS WINE #1</b>	STATE <b>KA.</b>	COUNTY <b>NEMAHA</b>	DATE <b>12-6-79</b>
CREW NO. <b>6834</b>	TERRAIN <b>Hilly</b>	WEATHER <b>CLEAR - Cool</b>		LINE NO. <b>1</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 ~	50 ~	
1 933	PULSE	1 - 6 SEC.				725	Out	IN		RECORDER SETUP BETWEEN STA.'S 739-740
2 935	EINT	2 - " "								STA. # 708 OPEN DUE TO BRIDGE.
3 936-939	DRD	4 - " "								
4 934	SUM TEST	2 - " "								
5 940	NRI TEST	2 - " "								
6 932	Similarity	1 - 22 SEC.		5					50%	
7 344	Wind Strip	1 - 6 SEC.								CHECKING WINE
8 345	754	667-750X758-769	240						70%	1-9% CORRELATION MADE ON FILE # 345
9 346	756	669-752X760-771	2						30%	U.P. # 756 STACKED ON FIRST HALF DUE TO HOUSE
10 SKIP	758	671-754X762-773	4							U.P. # 758 SKIPPED DUE TO HOUSE
11 347	760	673-756X764-775	6						30%	" 760 STACKED ON LAST HALF DUE TO HOUSE
12 SKIP	762	675-758X766-777	8							U.P.'S 762 & 764 SKIPPED DUE TO HOUSES
13 SKIP	764	677-760X768-779	10							U.P.'S 766 SKIPPED DUE TO HOUSE
14 SKIP	766	679-762X770-781	12							
15 SKIP	768	681-764X772-783	14							U.P. 768 SKIPPED DUE TO HOUSE
16 348	770	683-766X774-785	16			725			30%	U.P. 770 STACKED ON LAST DUE TO HOUSE. E.O.T. # 725
17 350	772	685-768X776-787	18			726			70%	B.O.T. # 726. FILE # 900-10 SEC. ALL ONE'S. FILE # 349 WIND STRIP
18 351	774	687-770X778-789	20						"	
19 352	776	689-772X780-791	22						"	5 RAW SWEEPS (FOR DE KAUFMAN, 21-11-79) FOR QUALITY CONTROL MADE ON FILE # 352
20 353	778	691-774X782-793	24						"	
21 354	780	693-776X784-795	26						"	WIND STARTING
22 355	782	695-778X786-797	28						"	
23 356	784	697-780X788-799	30						"	
24 357	786	699-782X790-801	32			726			"	E.O.T. # 726
25 358	788	701-784X792-803	34			727			"	B.O.T. # 727. FILE # 900-10 SEC. ALL ONE'S. 1-9% CORR. MADE ON FILE # 358

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8 - 40 Hz / 22 SEC.		SWEEP PATTERN 660' SOURCE ARRAY		SWEEPS PER PATTERN 16	
GEOPHONES PER PATCH 24		NO. OF RECORDING PATCHES 96		TYPE VIBRATOR 4-4100'S 1-4900	
TYPE GEOPHONE ETH-5V22B		FREQUENCY 75 Hz		STATION INTERVAL 220'	
REMARKS 4ms. SAMPLE RATE 42 SEC. RECORD LENGTH		OBSERVER SUMMONS		PARTY MGR.	

# OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

Exploration Services  
Division  
Geosource Inc.

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CLIENT <b>COCORP</b>	AREA <b>KANSAS LINE #1</b>	STATE <b>KA.</b>	COUNTY <b>NEMAHA</b>	DATE <b>12-6-79</b>
CREW NO. <b>6834</b>	TERRAIN <b>Hilly</b>	WEATHER <b>CLEAR-Cool</b>		LINE NO. <b>1</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 ~	200 Hz	
1	790	703-786X794-805	36	5		727	Out	IN	70%	
2	792	705-788X796-807	38	5		↑	↑	↑	"	
3	794	707-790X798-809	40	4		↓	↓	↓	"	Vib #17311 Down
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										

FINISHED FOR THE DAY

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY <b>8-40 Hz / 22 SEC.</b>		SWEEP PATTERN <b>660' SOURCE ARRAY</b>		SWEEPS PER PATTERN <b>16</b>	
SWEEP PATTERNS PER SETUP <b>1</b>		PATCH PATTERN <b>     2222^22211111</b>		STATION INTERVAL <b>220'</b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>4-4100'S 1-4900</b>	TYPE GEOPHONE <b>ETB-F1/22</b>	FREQUENCY <b>25 Hz</b>	LINE DIR. 1 TO 24 <b>E → W</b>
REMARKS <b>4ms SAMPLE RATE 42 SEC RECORD LENGTH</b>			OBSERVER <b>SIMMONS</b>	PARTY MGR.	

# OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

Exploration Services  
Division  
Geosource Inc.

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CLIENT <b>COCORP</b>	AREA <b>KANSAS LINE #1</b>	STATE <b>KA</b>	COUNTY <b>Nemaha</b>	DATE <b>12-7-79</b>
CREW NO. <b>6834</b>	TERRAIN <b>Hilly</b>	WEATHER <b>CLEAR-COLD-WINDY</b>		LINE NO. <b>1</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~	ATTEN	
1	PULSE	1 - 6 SEC.					Out	IN		RECORDER SET UP BETWEEN STA.'S 775 & 776
2	EINT	2 - " "								WIND PICKING UP. STA. #814 OPEN DUE TO BRIDGE
3	DRD	4 - " "								
4	Sum TEST	2 - " "								
5	NRT TEST	2 - " "								
6	Similarity	1 - 22 SEC.		5					50%	CHECKING WINE
7	Wind Strip	1 - 6 SEC.								
8	796	709-792X800-811	6						30%	1-9% CORR. MADE ON FILE # 363. UP#796 STACKED ON FIRST HALF
9	SKIP	798	8							UP#798 SKIPPED DUE TO HOUSE
10	800	713-796X804-815	10			727			30%	E.O.T. #727. UP#800 STACKED ON LAST HALF
11	802	715-798X806-817	12			728			70%	B.O.T. #728. FILE #900-10 SEC. ALL OWES
12	804	717-800X808-819	14						"	
13	806	719-802X810-821	16						30%	UP#806 STACKED ON FIRST HALF
14	SKIP	808	18							UP#808 SKIPPED DUE TO HOUSE & HIGHWAY.
15	810	723-806X814-825	20			728			30%	E.O.T. #728. UP#810 STACKED ON LAST HALF.
16										
17										
18										FINISHED (TEMPORARILY) ON WINE #1 WILL BE PICKING UP WINE TO MOVE TO GEORGIA.
19										
20										
21										
22										
23										
24										
25										

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY <b>8-40 Hz / 22 SEC</b>		SWEEP PATTERN <b>660' SOURCE ARRAY</b>		SWEEPS PER PATTERN <b>16</b>	
SWEPT 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>14-4100'S 1-4900</b>	TYPE GEOPHONE <b>ET6-E1122B</b>	FREQUENCY <b>25 Hz</b>	STATION INTERVAL <b>220'</b>
REMARKS <b>4 MINS. SAMPLE RATE 4.2 SEC. RECORD LENGTH</b>			OBSERVER <b>SIMMONS</b>	PARTY MGR.	

**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>Nemaha+Jackson</b>	DATE <b>5/15/81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Rolling Hills</b>	WEATHER <b>Clear</b>		LINE NO. <b>1</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				360	OUT	IN		B.O.L. #1 Recorder Set at 780-781
2	<del>934</del>	<del>E.I.N.T</del>								
3	<del>935</del>	<del>D.R.D.</del>								
4	<del>939</del>	<del>Sum Test</del>								Sta. #742 open due to Bridge #822 open due to Driveway. #813 open due to Bridge.
5	<del>954</del>	<del>N.R.J. Test</del>								
6	932	Similarity	225	4					50%	Vib # 14256 Down
7	001	Wind Strip								
8	002	809	710-805	2					50%	Stacked 1st half.
9	003	810	711-806	3					50%	C.D.P. OFF 1.
10	004	811	712-807	4					50%	
11	005	812	713-808	5					70%	Stacked 1st half.
12	Skip	813	714-809	6					Skip	due to bridge
13	006	814	715-810	7					70%	
14	007	815	716-811	8					70%	
15	008	816	717-812	9					50%	Stacked due to house.
16	Skip	817	717-813	10					Skip	due to house.
17	009	818	718-814	11					70%	Stacked last half.
18	010	819	719-815	12					70%	
19	011	820	720-816	13					70%	
20	012	821	721-817	14					70%	
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 → 32/3/sec.</b>	SWEEP PATTERN <b>4/6.3</b>	SWEEPS PER PATTERN <b>8</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN <b>1111222112221111</b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>4-V1100s 1-V900</b>	TYPE GEOPHONE <b>ETLEV22B</b>	FREQUENCY <b>7.5 Hz.</b>	STATION INTERVAL <b>330'</b>
REMARKS <b>8ms Sample Rate / 5/1 sec Record</b>			OBSERVER <b>J. Wingo</b>	PARTY MGR. <b>L. Davis</b>	

**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>Nemaha + Jackson</b>	DATE <b>5/20/81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Rolling Hills</b>	WEATHER <b>Clear</b>		LINE NO. <b>1</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.				361	OUT	IN		Recorder set at 793-794 B.O.T. #361
2	<del>934</del> EINT	2-...								#900 10 sec. All ones.
3	<del>939</del> D.R.D.	4-...								Stas. # 742 + 813 open due to bridge. sta # 822 open due to driveway.
4	<del>953</del> Samtest	2-...								
5	<del>960</del> N.R.J. test	2-...								
6	932 Similarity	1-31 sec.	225	5						50%
7	013 Wind Strip	1-6 sec.	2							
8	014 822	723-818	2	5						70%
9	015 823	724-819	3							70%
10	016 824	725-820	4							70%
11	017 825	726-821	5							70%
12	018 826	727-822	6							70%
13	019 827	728-823	7							70%
14	020 828	729-824	8							70%
15	021 829	730-825	9							70%
16	022 830	731-826	10							70%
17	023 831	732-827	11			361				70% E.O.T. #361 Tape MKTS.
18	025 832	733-828	12			362				70% B.O.T. #362 #900 10 sec. All ones. #024 6 sec.
19	026 833	734-829	13							70% Wind Strip.
20	027 834	735-830	14							70%
21	028 835	736-831	15							50%
22	029 836	737-832	16							50%
23	030 837	738-833	17							50% Stacked 1st half.
24	Skip 838	739-834	18							Skip due to house
25	Skip 839	740-835	19							Skip

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <b>MD5-10</b>
SWEEP FREQUENCY <b>8 → 32 Hz / 3/sec.</b>	SWEEP PATTERN <b>4163</b>	SWEEPS PER PATTERN <b>8</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN <b>11111222112221111</b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>4-V1100's 1-1900</b>	TYPE GEOPHONE <b>ETLEVR22B</b>	FREQUENCY <b>7.5 Hz.</b>	STATION INTERVAL <b>330'</b>
REMARKS <b>8 ms. Sample Rate / 51 sec. Record</b>	OBSERVER <b>R. Patton / J. Wingo</b>		PARTY MGR. <b>Z. Davis</b>		LINE DIR. 1 TO 24 <b>E → W.</b>

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

CLIENT <i>CDCORP</i>	AREA <i>Kansas</i>	STATE <i>Kansas</i>	COUNTY <i>Nemaha + Jackson</i>	DATE <i>5/20/81</i>
CREW NO. <i>6834</i>	TERRAIN <i>Rolling Hills</i>	WEATHER <i>Clear</i>		LINE NO. <i>1</i>

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	FILTER			REMARKS
							LOCUT	60~	AMP	
1	031	840	741-836	20	5	362	OUT	IN	50%	Stacked 2 <sup>nd</sup> half.
2	032	841	742-837	21					70%	
3	033	842	743-838	22					70%	
4	034	843	744-839	23					70%	
5	035	844	745-840	25					70%	
6	036	845	746-841	26		362			70%	E.O.T. #362 Tape MKT5.
7	038	846	747-842	3		363			70%	B.O.T. #363. #900 10 sec. All ones. #037 6 sec.
8	039	847	748-843	4					70%	Wind strip C.D.P. OFF 1.
9	040	848	749-844	5					70%	Moved Recorder to 816-817.
10	041	849	750-845	6					70%	
11	042	850	751-846	7					70%	
12	043	851	752-847	8					50%	Stacked 1 <sup>st</sup> half.
13	Skip	852	753-848	9					3kip	due to house.
14	044	853	754-849	10					50%	Stacked 2 <sup>nd</sup> half.
15	045	854	755-850	11					70%	
16	046	855	756-851	12					70%	
17	047	856	757-852	13					70%	
18	048	857	758-853	14					70%	
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 MGR.					

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division  
Geosource Inc.**

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CLIENT COCORP AREA Kansas STATE Kansas COUNTY Nemaha + Jackson DATE 5-21-81

CREW NO. 6834 TERRAIN Dirt Road Rolling Hills WEATHER Clear + Windy LINE NO.

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				364	OUT	IN		BOT * 364 # 900 10 sec All ones
2	934/935 EINT	2 - " "								Recorder set AT 830-831
3	936/939 D.R.D.	4 - " "								Stas # 813 + 822 open due to bridge + Driveway
4	953/954 Sum TEST	2 - " "								
5	960/961 N.R.S. TEST	2 - " "								Vib # 16344 Down. (Went Pressure up)
6	932 Similarity	1 - 31 sec	225	4						50%
7	049 Wind Strip	1 - 6 sec	1							
8	050 858	759-854	1	4						70% Wind picking up.
9	051 859	760-855	2							70%
10	052 860	761-856	3							70%
11	053 861	762-857	4							70%
12	054 862	763-858	5							70%
13	055 863	764-859	6							70%
14	056 864	765-860	7							70%
15	057 865	766-861	8							70% Stacked 2 <sup>nd</sup> half.
16	058 866	767-862	9							70% Wind gusting 25 to 30 mph.
17	059 867	768-863	10			364				70% E.O.T. # 364 Tape MKTS.
18										B.O.T. # 365 # 900 10 sec. All ones.
19										
20										
21										
22										
23										
24										
25										

TOTAL SETUPS 8 TOTAL SWEEPS 72 TOTAL COVERAGE 8 TOTAL FIELD TIME 1 DRIVING TIME  SYSTEM NO.

SWEEP FREQUENCY 8 → 32 Hz / 3 sec SWEEP PATTERN 4/6.3 SWEEPS PER PATTERN 8 SWEEP PATTERNS PER SETUP 1 PATCH PATTERN 111112221122211111

GEOPHONES PER PATCH 24 NO. OF RECORDING PATCHES 96 TYPE VIBRATOR 4-Y 1100's TYPE GEOPHONE FTL EV22.B FREQUENCY 7.5 Hz STATION INTERVAL 330' LINE DIR. 1 TO 24 E → W

REMARKS 8 ms Sample Rate / 51 sec Record. OBSERVER R. Patton / J Wings PARTY MGR. L. Davis

**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>Nemaha + Jackson</b>
CREW NO. <b>6834</b>			DATE <b>5-22-81</b>
TERRAIN <b>Dirt Road Rolling Hills</b>		WEATHER <b>Clear + Windy</b>	
LINE NO. <b>1</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				365	OUT	IN		Bot # 365 * 900 10 sec All ones
2	<del>934</del> EINT	2 - " "								Recorder set AT 840-841
3	<del>936</del> D.R.D.	4 - " "								STA's # 813 + 822 Dead due TO Bridge + Drive way.
4	<del>937</del> SWM TEST	2 - " "								
5	<del>960</del> N.R.J. TEST	2 - " "								Vib # 16344 Down (want pressure up Replacing Pump).
6	932 Similarity	1 - 3/1 sec	225	4						50%
7	060 Wind strip	1 - 6 sec								
8	061 868	769 - 864	1	4						70%
9	062 869	770 - 865	2							70%
10	063 870	771 - 866	3							70%
11	064 871	772 - 867	4							70%
12	065 872	773 - 868	5							50% Stacked 1st half. VP# 873-876 skip due TO Field.
13	066 877	778 - 873	10							70% Starting vp# 877 Vibs Now on Black top.
14	067 878	779 - 874	11							70%
15	068 879	780 - 875	12							70%
16	069 880	781 - 876	13							70%
17	070 881	782 - 877	14			365				70% For # 365 Tape MKTs.
18	072 882	783 - 878	15			366				70% Bot # 366 * 900 10 sec All ones # 071 6 sec windstrip.
19	073 883	784 - 879	16							70%
20	074 884	785 - 880	17							70%
21	075 885	786 - 881	18							70%
22	076 886	787 - 882	19							70%
23	077 887	788 - 883	20							70%
24	078 888	789 - 884	21							50%
25	Skip 889	790 - 885	22							Skip Due TO water well.

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8 → 32 Hz / 3/1 sec		SWEEP PATTERN 4/163		SWEEPS PER PATTERN 8	
SWEEP PATTERNS PER SETUP 1		PATCH PATTERN 11111222112221111			
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4 - x 1100's 1 - x 900	TYPE GEOPHONE ETL EV 22B	FREQUENCY 7.5 Hz	STATION INTERVAL 330'
REMARKS 8ms Sample Rate / 5/1 sec Record Length.			OBSERVER R. Patton	PARTY MGR. J Wings	
			LINE DIR. 1 TO 24 E → W		

**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>Nemaha + Jackson</b>
CREW NO. <b>6834</b>			DATE <b>5-22-81</b>
TERRAIN <b>Black TOP</b>		WEATHER <b>Partly cloudy + Windy.</b>	
LINE NO. <b>1</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	079	890	791-886	23	4	366	OUT	IN	50%	Stacked last half.
2	080	891	792-887	24					70%	STA # 887 Dead due to Bridge.
3	081	892	793-888	25					70%	
4	082	893	794-889	26					70%	
5	083	894	795-890	27		366			70%	EOT # 366 Tape MKTs
6	085	895	796-891	28		367			50%	BOT # 367 # 900 10 sec All axes # 084 6 sec wind strip.
7	SKIP	896	797-892	29					SKIP	due TO house. VP # 895 Stacked 1st half.
8	086	897	798-893	30					50%	stacked last half.
9	087	898	799-894	31					50%	stacked 1st half.
10	SKIP	899	800-895	32					SKIP	due TO house.
11	088	900	801-896	33					50%	Stacked last half.
12	089	901	802-897	34					70%	
13	090	902	803-898	35					70%	
14	091	903	804-899	36					70%	
15	092	904	805-900	37					70%	O/S 60' south
16	093	905	806-901	38					70%	Vibs Back on Dirt Road + Back on line.
17	094	906	807-902	39					70%	
18	095	907	808-903	40					70%	
19	096	908	809-904	41		367			70%	EOT # 367 Tape MKTs.
20										Finished for the Day.
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 MGR.		

**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>Nemaha + Jackson</b>
CREW NO. <b>6834</b>			DATE <b>5-23-81</b>
TERRAIN <b>Dist Road Rolling Hills</b>		WEATHER <b>Cloudy + Windy</b>	
LINE NO. <b>1 + 3 TEST</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				368	OUT	IN		Bot # 368 * 900 10sec All ones
2	934/935	EINT								Recorder set AT 871-872. STA's * 813 + 887 Dead due to Bridges. * 822 Dead due to Drive way.
3	936/939	D.R.D.								Vib # 16344 Down. ON Line * 3 TEST Vibs Shaking
4	953/954	Sum TEST								3 miles North + 3 miles South of Line #1 Vibs Shaking
5	960/961	N.R.T. TEST								Every 4th v.p. Starting AT 162. Vibs very closely spaced ONLY short move ups TO AVOID damage TO Road. CDP
6	932	Similarity	225	4					50%	will Remain * 12 + Geophones patches * 811 - * 906 For ALL
7	001	Windstrip	12						70%	TEST. * 166 skip due to houses.
8	002	162	12	4					50%	Stacked last half.
9	SKIP	166	12						70%	
10	003	170	12						70%	
11	004	174	12						70%	
12	005	178	12						70%	
13	006	182	12						70%	
14	007	186	12						70%	
15	008	190	12						70%	
16	009	194	12						70%	
17	010	198	12						70%	
18	011	202	12			368			70%	For # 368 Tape MKTs
19	013	206	12			369			70%	Bot # 369 * 900 10sec All ones * 012 6 sec windstrip.
20	014	210	12						70%	
21	015	214	12						70%	
22	016	218	12						70%	
23	017	222	12						70%	
24	018	226	12						70%	
25	019	230	12						70%	

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8 → 32Hz / 31sec		SWEEP PATTERN 4163		SWEEPS PER PATTERN 8	
SWEEP PATTERNS PER SETUP 1		PATCH PATTERN 111112221122211111		STATION INTERVAL 390'	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-X 11005 1-Y 900	TYPE GEOPHONE ETLEV22B	FREQUENCY 7.5 Hz	LINE DIR. 1 TO 24 E → W
REMARKS 8ms Sample Rate / 51sec Record Length.			OBSERVER R. Patten / J Wings	PARTY MGR. L Davis	

**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>Nemaha + Jackson</b>	DATE <b>5-23-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road Rolling Hills</b>	WEATHER <b>Partly Cloudy + windy</b>		LINE NO. <b>1 + 3 TEST</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	020	234	811-906	12	4		369	OUT	IN	70%	
2	021	238	811-906	12						70%	
3	022	242	811-906	12						70%	
4	SKIP	246	811-906	12						SKIP	Due to houses.
5	023	250	811-906	12						70%	
6	024	254	811-906	12						70%	EOL # 369 Tape MKTs, VP # 258.
7	025	258	811-906	12			369			70%	Bot # 370 * 900 10sec Allowes * 0266 sec wind strip.
8	027	1	811-906	12			370			70%	UP # 1 Bot # 370. (South Line) vibrating W → E
9	028	2	811-906	12						70%	Every mile. Vibs still closely spaced.
10	029	3	811-906	12						70%	
11	030	4	811-906	12						70%	
12	031	5	811-906	12						50%	
13	032	6	811-906	12						50%	
14	033	1	811-906	12						70%	(North Line) vibrating E → W Every mile
15	034	2	811-906	12						70%	Vibs Normal spacing 41' Between Vibs + 41' move up.
16	035	3	811-906	12						70%	AFTER VP # 1 vib # 12666 Broke down. had to
17	036	4	811-906	12						70%	Shut down. Finished Test 5-24-81 with
18	037	5	811-906	12						70%	vib # 16344 Back on line. VP # 5 stacked 1st half.
19	038	6	811-906	12			370			70%	Stacked last half. EOL # 370 Tape MKTs
20											EOL # 3 TESTING.
21											
22											
23											
24											
25											

End of (3D) Testing

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. 9

CLIENT <b>COCORP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>NEMAH</b>
CREW NO. <b>6834</b>			DATE <b>5-24-81</b>
TERRAIN <b>Dirt Road Rolling Hills</b>		WEATHER <b>Clear</b>	
LINE NO. <b>1</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			371	OUT	IN		Bot #371 #900 10 sec All ones.
2	934/935	EINT	2 - " "							Recorder set AT 871-872 #813+887 Dead due to
3	936/939	D.R.D.	4 - " "							Bridges. #822 Dead due to Drive way.
4	953/954	Sum TEST	2 - " "							
5	969/961	NRT TEST	2 - " "							
6	932	Similarity	1 - 31 sec	225	4					50%
7	097	Windstrip	1 - 6 sec	12						
8	SKIP	909	810 - 905	11	4					50% Due to houses.
9	098	910	811 - 906	12						70% Stacked last half.
10	099	911	812 - 907	13						70% Stacked last half.
11	100	912	813 - 908	14						70%
12	101	913	814 - 909	15						70%
13	102	914	815 - 910	16						70%
14	103	915	816 - 911	17						70%
15	104	916	817 - 912	18						70%
16	105	917	818 - 913	19						70%
17	SKIP	918	819 - 914	20						SKIP * 918+919 skip Due to houses.
18	SKIP	919	820 - 915	21						SKIP Wind picking up.
19	106	920	821 - 916	22						50% Stacked last half
20	107	921	822 - 917	23		371				50% EOT * 371 Tape MKTs
21	109	922	823 - 918	24		372				50% Bot * 372 #900 10 sec All ones #108 6 sec windstrip
22	110	923	824 - 919	25						50% Stacked 1st half
23	SKIP	924	825 - 920	26						SKIP
24	111	925	826 - 921	27						70%
25	112	926	827 - 922	28						70%

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8 → 32 #2 / 31 sec		SWEEP PATTERN 4/63		SWEEPS PER PATTERN 8	
SWEEP PATTERNS PER SETUP 1		PATCH PATTERN 111112221122211111			
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-Y11005 1-Y900	TYPE GEOPHONE ETLEV22B	FREQUENCY 7.5 Hz	STATION INTERVAL 330'
REMARKS 8 ms Sample Rate / 51 sec Record Length			OBSERVER R. Patten / J Wings	PARTY MGR. P Davis	

# 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>Nemaha + Jackson</b>		DATE <b>5-24-81</b>			
CREW NO. <b>6834</b>		TERRAIN <b>Dirt Road Rolling Hills</b>		WEATHER <b>Clear + windy</b>		LINE NO. <b>1</b>					
REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	FILTER			REMARKS	
							LOCUT	60 ~	AMP		
1	927	828-923	29	4		372	OUT	IN	708		
2	928	829-924	30						708		
3										Finished For The Day	
4											
5											
6											
7											
8											
9											
10											
11											
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**

**Exploration Services  
Division  
Geosource Inc.**

CLIENT <b>COCORP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Nemaha &amp; Jackson</b>	DATE <b>5-25-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dist Road + Rolling Hills</b>	WEATHER <b>Cloudy + Clearing + Slightly wet</b>		LINE NO. <b>1</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				372	OUT	IN		Recorder set AT 900-901 #887 Dead due -
2	934/935 EINT	2 - " "								Bridge.
3	936/939 D.R.D.	4 - " "								had to stand by awhile due to Thunder +
4	953/954 Sum TEST	2 - " "								Lighting + Light Rain Before getting live Ready.
5	960/961 NRJ TEST	2 - " "								Vib #12666 Down.
6	932 Similarity	1 - 31 sec	225	4						50%
7	115 Wind Strip	1 - 6 sec	2							
8	116 929	830 - 925	2	4						70%
9	117 930	831 - 926	3							70%
10	118 931	832 - 927	4							70%
11	119 932	833 - 928	5			372				70% For * 372 Tape MKTs
12	121 933	834 - 929	6			373				70% Bot * 373 * 900 10sec All dyes * 120 6sec wind strip.
13	122 934	835 - 930	7							70%
14	123 935	836 - 931	8							70%
15	124 936	837 - 932	9							70%
16	125 Skip	838 - 933	10							70% Due to Bridge
17	126 938	839 - 934	11							70% Stacked last half
18	127 939	840 - 935	12							70%
19	128 940	841 - 936	13							70%
20	128 941	842 - 937	14							70%
21										
22										Finished For the day.
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 4/63	SWEEPS PER PATTERN 8	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN 11112221 2221111	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-V 11005 1-V 900	TYPE GEOPHONE ETLE V22B	FREQUENCY 7.5 Hz	STATION INTERVAL 330'
REMARKS 8ms Sample Rate / 51sec Record Length.	OBSERVER R. Patten / J Wings	PARTY MGR. L Davis	LINE DIR. 1 TO 24 E → W		

GEO-252-B

# 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>Nemaha + Pottawatomie</b>		DATE <b>5/26/81</b>			
CREW NO. <b>6834</b>		TERRAIN <b>Dirt Road + Rolling Hills</b>		WEATHER <b>Clear to Partly Cloudy + Wet</b>		LINE NO. <b>1</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.			373	OUT	IN		Recorder set at 914-915	
2	<del>934</del> 935	FINT	2- " "							Sta. # 887 Dead due to bridge.	
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	1-3/4sec.	225	4				50%	vib # 12666 Down.	
7	129	Wind Strip	1-6sec.	1							
8	130	942	843-938	1	4				70%		
9	131	943	844-939	2		373			70%	EOT #373 Tape MKTS	
10	133	944	845-940	3		374			70%	Bot #374 #900 10sec All ones #132 6sec wind strip	
11	134	945	846-941	4					70%		
12	135	946	847-942	5					70%		
13	136	947	848-943	6					70%		
14	137	948	849-944	7					70%		
15	138	949	850-945	8					70%		
16	139	950	851-946	9					50%	Stacked 1st half	
17	140	951	852-947	10					70%	Stacked 2nd half	
18	141	952	853-948	11					70%		
19	142	953	854-949	12					70%		
20	143	954	855-950	13					70%		
21	144	955	856-951	14		374			70%	E.O.T. #374 Tape MKTS.	
22	146	956	857-952	15		375			70%	B.O.T. #375 #900 10sec All ones. #145 6sec.	
23	147	957	858-953	16					70%	wind strip.	
24	148	958	859-954	17					70%		
25	149	959	860-955	18							
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>1111222112221111</b>			
GEOPHONES PER PATCH <b>24</b>		NO. OF RECORDING PATCHES <b>96</b>		TYPE VIBRATOR <b>N-Y1100 1-Y900</b>		TYPE GEOPHONE <b>ETLEV22B</b>		FREQUENCY <b>7.5 Hz.</b>		STATION INTERVAL <b>330'</b>	
REMARKS <b>8ms. Sample Rate 151 sec Record Length</b>		OBSERVER <b>R. Patton / J. Wingard</b>		PARTY MGR. <b>J. Davis</b>		PAGE <b>1</b> OF <b>2</b>					

# 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		DATE <b>5/26/81</b>		
CREW NO. <b>10834</b>		TERRAIN <b>Rolling Hills</b>		WEATHER <b>Partly Cloudy</b>		LINE NO. <b>1</b>				
REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	FILTER			REMARKS
							LOCUT	60~	AMP	
1	960	861-956	19	4		375	OUT	IN	70%	
2	961	862-957	20						70%	
3	962	863-958	21						70%	
4	963	864-959	22						50%	Stacked 1st half
5	Skip	865-960	23						50%	Skip due to house.
6	964	866-961	24						50%	Stacked 2nd half.
7	965	867-962	25						70%	
8	966	868-963	26						70%	
9	967	869-964	27			375			70%	F.O.T. #375 Tape MKTS.
10	968	870-965	28			376			70%	B.O.T. #376 #900 10sec. All ones #158 6sec. Wind
11	969	871-966	29						70%	Strip.
12	970	872-967	30						70%	
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
REMARKS						OBSERVER		PARTY MGR.		

**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>Nemaha</b>	DATE <b>5-27-81</b>
CREW NO. <b>6838</b>	TERRAIN <b>Dirt Road + Rolling Hills</b>	WEATHER <b>Cloudy + wet</b>	LINE NO. <b>1</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			376	out	IN		Recorder set AT 944-945
2	934/935	FIN T	2 - " "							
3	936/939	D.R.D.	4 - " "							
4	953/954	Sum TEST	2 - " "							
5	960/961	NRT TEST	2 - " "							Vib # 12666 Down
6	932	Similarity	1 - 31 sec	225	4				50%	
7	162	Wind Strip	2 - 6 sec	1						
8	163	972	873 - 968	1	4				70%	
9	164	973	874 - 969	2					50%	Stacked 1st half.
10	SKIP	974	875 - 970	3					SKIP	Due to houses.
11	165	975	876 - 971	4					70%	
12	166	976	877 - 972	5					70%	
13	167	977	878 - 973	6					70%	
14	168	978	879 - 974	7					70%	
15	169	979	880 - 975	8		376			70%	Foot * 376 Tape MKTs.
16	171	980	881 - 976	9		377			70%	Bot * 377 * 900 10 sec All ones #170 6 sec Wind Strip.
17	172	981	882 - 977	10					70%	Stacked 1st half
18	SKIP	982	883 - 978	11					SKIP	Due to houses.
19	173	983	884 - 979	12					50%	Stacked last half
20	174	984	885 - 980	13					70%	
21	175	985	886 - 981	14					70%	Stacked 1st half.
22	176	986	887 - 982	15					70%	
23	177	987	888 - 983	1					70%	<del>Moved Recorder TO 959-960</del>
24	178	988	889 - 984	2					70%	
25	179	989	890 - 985	3					70%	

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	
GEOPHONES PER PATCH 24		NO. OF RECORDING PATCHES 96		TYPE VIBRATOR 4 - 1100ft 1 - 900	
REMARKS 8ms Sample Rate / 51sec Record Length		TYPE GEOPHONE FTLEU22B		FREQUENCY 7.5 Hz	
OBSERVER R. Patton / J Wings		PARTY MGR. P Davis		STATION INTERVAL 330'	
				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>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Nemaha</b>	DATE <b>5-27-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road + Rolling Hills</b>	WEATHER <b>Cloudy + wet</b>		LINE NO. <b>1</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	180	990	891-986	4	4	377	OUT	IN	70%	stacked 1st half
2	skip	991	892-987	5						skip due to houses
3	181	992	893-988	6					50%	stacked last half
4	182	993	894-989	7		377			70%	stacked 1st half EOT * 377 Tape m/cts.
5	skip	994	895-990	8						skip Due to house
6	skip	995	896-991	9						skip Due to house + water well
7	skip	996	897-992	10						skip Due to water well
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										

Finished For The Day.

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 <b>COCORP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Nemaha</b>	DATE <b>5/28/81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road Rolling Hills</b>	WEATHER <b>Cloudy</b>	LINE NO. <b>1</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.			378	OUT	IN		Bot #378 *900 10sec All ones.
2	<del>934</del> 935	FTNT	2- " "							Recorder set AT 966-967
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- " "							vib # 12666 Down.
6	932	Similarity	1-31 sec.	225	4				50%	
7	183	Wind Strip	1-6 sec.	4						
8	184	997	898-993	4	4				50%	Stacked last half
9	185	998	899-994	5					70%	
10	186	999	900-995	6					70%	Light rain starting to Fall.
11	187	1000	901-996	7					70%	
12	Skip	1001	902-997	8					Skip	due to house.
13	188	1002	903-998	9					70%	
14	189	1003	904-999	10					70%	
15	190	1004	905-1000	11					70%	
16	191	1005	906-1001	12					70%	Starting to pick up Thunder & Lighting on the line.
17	192	1006	907-1002	13		378			50%	E.D.T. #378 Tape MKTS. Stacked 1st half.
18	Skip	1007	908-1003	14					Skip	standing by for 2 hours. Still picking
19	Skip	1008	909-1004	15					Skip	up Thund and Lighting. Having to shut
20										down.
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>4/6.3</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-Y1100<sup>s</sup> 1-Y900</b>	TYPE GEOPHONE <b>ETLEVR2B</b>	FREQUENCY <b>7.5 Hz.</b>	STATION INTERVAL <b>330'</b>
REMARKS <b>Ans. Sample Rate 1/51 sec. Record Length</b>	OBSERVER <b>R. Patton / J. Wings</b>	PARTY MGR. <b>J. Davis</b>	LINE DIR. <b>1 TO 24 E → W</b>		

**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>Nemaha</b>	DATE <b>5-29-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road Rolling Hills</b>	WEATHER <b>Partly Cloudy</b>		LINE NO. <b>1</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			379	OUT	IN		Bot * 379 * 900 10sec All ones
2	934/935	FINT	" - " "							Recorder set AT 981-982
3	936/939	D.R.D.	" - " "							
4	953/954	Sum Test	" - " "							
5	969/961	NRT Test	" - " "							Vib # 12666 Down.
6	932	Similarity	1 - 31 sec	<del>29</del> 4					50%	
7	193	Windstrip	1 - 6 sec	1						
8	194	1009	910-1005	1	4				50%	Stacked last half.
9	195	1010	911-1006	2					70%	
10	196	1011	912-1007	3					70%	
11	197	1012	913-1008	4					70%	
12	198	1013	914-1009	5					70%	
13	199	1014	915-1010	6					70%	
14	200	1015	916-1011	7					70%	
15	201	1016	917-1012	8					70%	
16	Skip	1017	918-1013	9					Skip	due to water well.
17	202	1018	919-1014	10					70%	Stacked last half.
18	203	1019	920-1015	11		379			70%	E.O.T. #379 Tape MKTS.
19	205	1020	921-1016	12		380			70%	B.O.T. #380 #900 10sec. All ones. #204 6sec. Wind Strip.
20	206	1021	922-1017	13					70%	
21	207	1022	923-1018	14					50%	Stacked First half.
22	Skip	1023	924-1019	15					Skip	due to house
23	Skip	1024	925-1020	16					Skip	due to Rock building.
24	208	1025	926-1021	17					70%	
25	209	1026	927-1022	18					70%	

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8 → 32Hz / 31 sec		SWEEP PATTERN 4163		SWEEPS PER PATTERN 8	
GEOPHONES PER PATCH 24		NO. OF RECORDING PATCHES 96		TYPE VIBRATOR 4-2 11005	
REMARKS 8 ms sample Rate / 51 sec Record Length		TYPE GEOPHONE ETL EV22B		FREQUENCY 7.5 Hz	
OBSERVER R. Patten / J Wings		PATCH PATTERN 11111 2221 1222 1111		STATION INTERVAL 330'	
PARTY MGR. J Davis.		LINE DIR. 1 TO 24 E → W			

# OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

Exploration Services  
Division  
Geosource Inc.

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CLIENT <i>COCORP</i>			AREA <i>Kansas</i>			STATE <i>Kansas</i>		COUNTY <i>Nemaha</i>		DATE <i>5/29/81</i>
CREW NO. <i>6834</i>		TERRAIN <i>Rolling Hills</i>			WEATHER <i>Partly Cloudy</i>				LINE NO. <i>1</i>	
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	210	1027	928-1023	19	4	380	OUT	IN	70%	
2	211	1028	929-1024	20					70%	
3	212	1029	930-1025	21					70%	
4	213	1030	931-1026	22					70%	Stacked 1st half.
5	214	1031	932-1027	23					70%	Stacked Last half.
6	215	1032	933-1028	24					70%	
7	216	1033	934-1029	25		380			70%	E.D.T. Tape MKTS. #380
8	218	1034	935-1030	26		381			70%	B.D.T. #381 #900 10sec. All ones. #217 6sec. Wind
9	219	1035	936-1031	27					70%	Strip.
10	220	1036	937-1032	28					70%	
11	221	1037	938-1033	29					70%	Wind picking up.
12	222	1038	939-1034	30					70%	
13	223	1039	940-1035	31					70%	
14	224	1040	941-1036	32					50%	Stacked First half.
15	225	1041	942-1037	33					70%	Stacked Last half.
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
REMARKS						OBSERVER			PARTY MGR.	

# 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>Wemaha</b>	DATE <b>5-30-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road Rolling Hills</b>	WEATHER <b>Partly Cloudy + Windy.</b>	LINE NO. <b>1</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			381	out	IN		Recorder set AT 1011-1012
2	934/935	EINT	2 - " "							
3	936/939	D.R.D.	4 - " "							
4	953/954	Sum Test	2 - " "							
5	960/961	NRJ Test	2 - " "							Vib # 12666 Down.
6	932	Similarity	1 - 31 sec	225	4				50%	
7	226	Wind Strip	1 - 6 sec	4						
8	227	1042	943-1038	4	4				50%	
9	228	1043	944-1039	5		381			70%	EOT # 381 Tape MKTs
10	230	1044	945-1040	6		382			70%	BOT # 382 * 900 10sec All ones # 229 6sec wind strip.
11	231	1045	946-1041	7					70%	
12	232	1046	947-1042	8					70%	
13	233	1047	948-1043	9					70%	
14	234	1048	949-1044	10					70%	
15	235	1049	950-1045	11					70%	
16	236	1050	951-1046	12					70%	
17	237	1051	952-1047	13					70%	
18	238	1052	953-1048	14					70%	
19	239	1053	954-1049	15					70%	
20	240	1054	955-1050	16					70%	
21	241	1055	956-1051	17					70%	
22	242	1056	957-1052	18		382			70%	E.O.T # 382 Tape MKTs.
23	244	1057	958-1053	19		383			70%	B.O.T # 383 * 900 10sec. All ones # 243 6sec. Wind Strip.
24	245	1058	959-1054	20					70%	Wind picking up.
25	246	1059	960-1055	21						

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	
GEOPHONES PER PATCH 24		NO. OF RECORDING PATCHES 96		TYPE VIBRATOR 4-Y 1100S	
REMARKS 8 ms Sample Rate / 51 sec Record Length		TYPE GEOPHONE 1-Y 900		FREQUENCY 7.5 Hz	
OBSERVER R. Patton / J Wings		STATION INTERVAL 330'		PATCH PATTERN         222   222	
PARTY MGR. J Davis		LINE DIR. 1 TO 24		E → W	

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division** 20  
Geosource Inc.

CLIENT <i>COCORP</i>	AREA <i>Kansas</i>	STATE <i>Kansas</i>	COUNTY <i>Memaha + Marshall</i>	DATE <i>5/30/81</i>
CREW NO. <i>6834</i>	TERRAIN <i>Rolling Hills</i>	WEATHER <i>Partly Cloudy + Windy</i>	LINE NO. <i>1</i>	

REC.NO.	SWEEP POINT	PATCH LOCATIONS	JCDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F I L T E R			RE MARKS
							LOCUT	60 ~	AMP	
1	247	1060	961-1056	22	4	383	OUT	FW	70%	Wind gusting 20-25 mph
2	248	1061	962-1057	23					70%	
3	249	1062	963-1058	24					70%	
4	250	1063	964-1059	25					70%	
5	251	1064	965-1060	26					70%	
6	252	1065	966-1061	27					70%	
7	253	1066	967-1062	28					70%	
8										Finished for The Day.
9										
10										
11										
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
REMARKS			OBSERVER	PARTY MGR.	

**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>Nemaha</b>	DATE <b>5-30-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road Rolling Hills</b>	WEATHER <b>Clear</b>		LINE NO. <b>1</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				383	OUT	IN		Recorder set AT 1039-1040
2	934/935 FINT	2 - " "								
3	936/939 D.R.D.	4 - " "								
4	953/954 Sum TEST	2 - " "								
5	960/961 N.R.T. TEST	2 - " "								Vib #12.6666 Down.
6	932 Similarity	1 - 31 sec	225	4		383			50%	EOT #383 Tape MKTS
7	254 Wind Strip	1 - 6 sec	1			384				ROT #384 #900 10 sec All ones.
8	255 1067	968-1063	1	4					70%	Checking line for Reverse Cable.
9	256 1068	969-1064	2						70%	
10	257 1069	970-1065	3						70%	
11	258 1070	971-1066	4						70%	
12	259 1071	972-1067	5						70%	
13	260 1072	973-1068	6						70%	
14	261 1073	974-1069	7						70%	
15	262 1074	975-1070	8						70%	Standing by waiting on a train to go by.
16	263 1075	976-1071	9						70%	
17	264 1076	977-1072	10						70%	
18	265 1077	978-1073	11						70%	
19	266 1078	979-1074	12						70%	
20	268 1079	980-1075	13			384			70%	E.O.T. #384. Tape MKTS.
21	269 1080	981-1076	14			385			70%	B.O.T. #385 #900 10 sec. All ones. #2676sec. Wind Strip.
22	270 1081	982-1077	15						70%	
23	271 1082	983-1078	16						50%	Stacked first half due to house.
24	Skip 1083	984-1079	17						Skip	
25	272 1084	985-1080	18						50%	Finished for the Day.

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY <b>8 → 32 Hz / 31 sec.</b>		SWEEP PATTERN <b>4/163</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-V11005 1-V900</b>	TYPE GEOPHONE <b>ETLEV22B</b>	FREQUENCY <b>7.5 Hz.</b>	STATION INTERVAL <b>330'</b>
REMARKS <b>8ms. Sample Rate / 51 sec. Record.</b>			OBSERVER <b>R. Patton / J. Wings</b>	PARTY MGR. <b>L. Davis</b>	

**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>Nemaha + Marshall</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road Rolling Hills</b>	WEATHER <b>Clear + windy</b>	DATE <b>6-1-81</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			385	out	IN		Recorder set AT 1050-1051
2	934/935	EINT	2 - " "							STA*1085 open due to Rail Road tracks.
3	936/939	D.R.D.	4 - " "							
4	953/954	Sum TEST	2 - " "							
5	969/961	NRJ TEST	2 - " "							Vib*12666 Back on Line.
6	932	Similarity	1 - 31 sec	225	5				50%	
7	273	Windstrip	1 - 6 sec	8						
8	274	1085	986-1081	8	5				70%	
9	275	1086	987-1082	9					70%	
10	276	1087	988-1083	10					70%	
11	277	1088	989-1084	11					70%	
12	278	1089	990-1085	12					70%	
13	279	1090	991-1086	13		385			70%	FOT*385 tape MKTS
14	281	1091	992-1087	14		386			70%	Bot*386*900 10 sec Allowes *280 6 sec windstrip.
15	282	1092	993-1088	15					70%	
16	283	1093	994-1089	16					70%	Replanted Jugs on 1045+1046 Cows close to line AT 1045.
17	284	1094	995-1090	17					70%	
18	285	1095	996-1091	18					70%	
19	286	1096	997-1092	19					70%	
20	287	1097	998-1093	20					70%	
21	288	1098	999-1094	21					70%	
22	289	1099	1000-1095	22					70%	Replaced leaky cable.
23	290	1100	1001-1096	23					70%	
24	291	1101	1002-1097	24					70%	
25	292	1102	1003-1098	25					50%	Stacked 1st half

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8 → 32hz / 31sec	SWEEP PATTERN 4163	SWEEPS PER PATTERN 8	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN 111112221 <sup>x</sup> 12221111	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-y 1100's 1-y 900	TYPE GEOPHONE ETL EV22.B	FREQUENCY 7.5hz	STATION INTERVAL 330'
REMARKS 8ms. Sample Rate / 51 sec. Record Length			OBSERVER R. Patton / G. Wings	PARTY MGR. L. Davis	

**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>Nemaha + Marshall</b>	DATE <b>6-1-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road + Rolling Hills</b>	WEATHER <b>Clear</b>	LINE NO. <b>1</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	SKIP	1004-1099	26	5		386	OUT	IN	SKIP	Due to houses.
2	SKIP	1005-1100	27						SKIP	Due to houses.
3	293	1006-1101	28			386			70%	EOT * 386 Tape mKts.
4	295	1007-1102	29			387			70%	Bot * 387 * 900 10sec ALL ONES * 294 6sec windstrip
5	296	1008-1103	30						70%	
6	297	1009-1104	31						70%	Replanted Jugs on * 1104.
7	298	1010-1105	32						70%	
8	299	1011-1106	33						70%	
9	300	1012-1107	34						70%	
10	301	1013-1108	35						70%	
11									70%	Finished For The Day.
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**

**Exploration Services  
Division  
Geosource Inc.**

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CLIENT <b>COCORP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Nemaha + Marshall</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road + Rolling Hills</b>	WEATHER <b>Clear + WET</b>	DATE <b>6-3-81</b>
LINE NO. <b>1</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			387	OUT	IN		Recorder set at 1080-1081
2	934/935	EINT	2 - " "							Sta #1085 open due to Rail Road Tracks.
3	936/939	D.R.D.	4 - " "							Cows on line Rt 1045-1046. Just off the line on other side of fence.
4	953/954	Sum TEST	2 - " "							
5	969/961	NRJ TEST	2 - " "							
6	932	Similarity	1 - 31 sec	225	5				50%	
7	302	Windstrip	1 - 6 sec	6						
8	303	1113	1014-1109	6	5				50%	Stacked 1 <sup>st</sup> half due to water well + Intersec-
9	304	1114	1015-1110	7					50%	tion.
10	305	1115	1016-1111	8					70%	
11	306	1116	1017-1112	9		387			70%	E.O.T. #387 Tape MKT3
12	308	1117	1018-1113	10		388			70%	B.O.T. #388 #900 10sec. All ones. #307 6sec. Wind Strip.
13	309	1118	1019-1114	11					70%	
14	310	1119	1020-1115	12					70%	
15	311	1120	1021-1116	13					70%	
16	312	1121	1022-1117	14					70%	
17	Skip	1122	1023-1118	15					Skip	
18	313	1123	1024-1119	16					70%	Stacked 2 <sup>nd</sup> half due to water well.
19	314	1124	1025-1120	17					70%	
20	315	1125	1026-1121	18					70%	
21	316	1126	1027-1122	19					70%	
22	317	1127	1028-1123	20					70%	
23	318	1128	1029-1124	21					70%	
24	319	1129	1030-1125	22					70%	
25	320	1130	1031-1126	23					70%	E.O.T. #388 Tape MKT3.

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <b>MDS-10</b>
SWEEP FREQUENCY <b>8 → 32 Hz / 51 sec.</b>	SWEEP PATTERN <b>4/6.3</b>	SWEEPS PER PATTERN <b>8</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN <b>11111222112221111</b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>4-Y 1100S 1-Y 900</b>	TYPE GEOPHONE <b>ETLEVZ2B</b>	FREQUENCY <b>7.5 Hz.</b>	STATION INTERVAL <b>330'</b>
REMARKS <b>8ms Sample Rate / 51 sec Record Length</b>		OBSERVER <b>R. L. Hoffman / J. Whingo</b>		PARTY MGR. <b>J. Davis</b>	

**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>Nemaha &amp; Marshall</b>	DATE <b>6/3/81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Rolling Hills</b>	WEATHER <b>Clear</b>		LINE NO. <b>1</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	322	1131	1032-1127	24	5		389	OUT	IN	70%	B.O.T. #389 #321 6sec. Wind Strip. #900
2	323	1132	1033-1128	25						70%	10sec. All ones
3	324	1133	1034-1129	26						70%	
4	325	1134	1035-1130	27						70%	
5	326	1135	1036-1131	28						70%	
6	327	1136	1037-1132	29						70%	
7	328	1137	1038-1133	30						70%	
8	329	1138	1039-1134	31						70%	
9	330	1139	1040-1135	32						50%	Stacked 1st half.
10	skip	1140	1041-1136	33						skip	Due to water well
11	skip	1141	1042-1137	34						skip	Due to house
12	331	1142	1043-1138	35						50%	Stacked Last half.
13	332	1143	1044-1139	36						70%	
14	333	1144	1045-1140	5			389			70%	Moved Recorder TO 1112-1113 + EOT* 389.
15	335	1145	1046-1141	6			390			70%	Bot* 390 #900 10sec All ones #334 6sec Windstrip.
16	336	1146	1047-1142	7						70%	
17	skip	1147	1048-1143	8						skip	Due to water well
18	337	1148	1049-1144	9						70%	Stacked Last half.
19	338	1149	1050-1145	10						70%	Replanted Jugs on STA* 1143.
20	339	1150	1051-1146	11						70%	
21	340	1151	1052-1147	12						70%	
22	341	1152	1053-1148	13						70%	
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.						

**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>6-4-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road + Rolling Hills</b>	WEATHER <b>Cloudy + WET</b>	LINE NO. <b>1</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				390	OUT	IN		Recorder set AT 1123-1124
2	934/935 FINT	2 - " "								*1085 open due to Rail Road Tracks.
3	936/939 D.R.D.	4 - " "								
4	953/954 Sum TEST	2 - " "								
5	960/961 NRJ TEST	2 - " "								Vib #17311 Down
6	932 Similarity	1 - 31 sec	225	4					50%	
7	342 Wind strip	1 - 6 sec	3						-	
8	343 1153	1054-1149	3	4					70%	
9	344 1154	1055-1150	4						70%	
10	345 1155	1056-1151	5			390			70%	EOT #390 Tape MKTS
11	347 1156	1057-1152	6			391			70%	BOT #391 *900 10sec All ones *346 6sec windstrip.
12	348 1157	1058-1153	7						70%	
13	349 1158	1059-1154	8						70%	
14	350 1159	1060-1155	9						70%	
15	351 1160	1061-1156	10						70%	
16	352 1161	1062-1157	11						70%	
17	353 1162	1063-1158	12						70%	
18	354 1163	1064-1159	13						70%	
19	355 1164	1065-1160	14						70%	stacked 1st half
20	SKIP 1165	1066-1161	15						SKIP	Due to water well
21	356 1166	1067-1162	16						70%	
22	357 1167	1068-1163	17						70%	
23	358 1168	1069-1164	18						70%	
24	359 1169	1070-1165	19			391			70%	EOT #391 Tape MKTS
25	361 1170	1071-1166	20			392			70%	BOT #392 *900 10sec All ones *360 6sec windstrip.

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 1111222112221111			
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-Y 1100s 1-Y 900	TYPE GEOPHONE FTL EV22B	FREQUENCY 7.5 Hz	STATION INTERVAL 330'
REMARKS 8ms Sample Rate / 51sec Record Length			OBSERVER R. Patten	PARTY MGR. J. Davis	

**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>6-4-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road + Rolling Hills.</b>	WEATHER <b>Cloudy + wet.</b>		LINE NO. <b>1</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	362	1171	1072-1167	21	4	392	OUT	IN	70%	
2	363	1172	1073-1168	22					70%	
3	364	1173	1074-1169	23					70%	
4	365	1174	1075-1170	3					70%	Moved Recorder TO 1144-1145.
5	366	1175	1076-1171	4					70%	
6	367	1176	1077-1172	5					70%	
7	368	1177	1078-1173	6					70%	Stacked last half.
8	369	1178	1079-1174	7					70%	
9	370	1179	1080-1175	8					70%	
10	371	1180	1081-1176	9					70%	
11										Finished for The Day.
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
REMARKS			OBSERVER	PARTY MGR.	

OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER

Exploration Services 28  
Division  
Geosource Inc.

CLIENT <b>COCORP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Marshall</b>	DATE <b>6-5-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road Rolling Hills</b>	WEATHER <b>Clear + wet</b>	LINE NO. <b>1</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 - 6 sec				392	OUT	IN		Recorder set RT 1153-1154
2	<del>934</del> 935 EINT	2 - " "								STA* 1085 Dead due to Rail Road Tracks. #1177
3	<del>936</del> 939 D.R.D.	4 - " "								Dead due to Bridge.
4	<del>953</del> 954 Sum test	2 - " "								
5	<del>969</del> 961 NRT test	2 - " "								Vib* 12667 Down For Similarity.
6	932 Similarity	1 - 31 sec	225	4		392			50%	EOT* 392 Tape MKTS
7	372 wind strip	1 - 6 sec	1			393			-	Bot* 393 * 900 10 sec Allowes.
8	373 1181	1082-1177	1	5					70%	AFTex Sims Checked out *12667 + put on line.
9	374 1182	1083-1178	2						70%	
10	375 1183	1084-1179	3						70%	
11	376 1184	1085-1180	4						70%	
12	377 1185	1086-1181	5						70%	
13	378 1186	1087-1182	6						70%	
14	379 1187	1088-1183	7						70%	
15	380 1188	1089-1184	8						70%	
16	381 1189	1090-1185	9						70%	
17	382 1190	1091-1186	10						70%	
18	383 1191	1092-1187	11						70%	
19	384 1192	1093-1188	12						70%	
20	385 1193	1094-1189	13			393			70%	EOT * 393 Tape MKTS
21	Skip 1194	1095-1190	14						70%	Skip *1194 + 1195 Skip Due to STA: OFFSET IN Field.
22	Skip 1195	1096-1191	15						70%	From 1193-1194 1 mile OFFSET NORTH.
23	387 1196	1097-1192	16			394			70%	Bot* 394 * 900 10sec Allowes *386 6sec wind strip.
24	388 1197	1098-1193	17						70%	
25	389 1198	1099-1194	18						70%	

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8 → 32hz / 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-γ 1100s 1-γ 900	TYPE GEOPHONE ETL EU 22B	FREQUENCY 7.5hz	STATION INTERVAL 330'
REMARKS 8ms Sample Rate / 51sec Record Length			OBSERVER R. Patton	PARTY MGR. J. Davis	

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DIGITAL VIBROSEIS RECORDER

Exploration Services 29  
Division  
Geosource Inc.

CLIENT <b>COCORP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Marshall</b>	DATE <b>6-5-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road Rolling Hills</b>	WEATHER <b>Clear</b>	LINE NO. <b>1</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	390	1100-1195	19	5		394	OUT	IN	70%	
2	391	1101-1196	20						70%	
3	392	1102-1197	21						70%	
4	393	1103-1198	22						70%	
5	394	1104-1199	23						70%	
6	395	1105-1200	24						70%	
7	396	1106-1201	25	4					70%	Vib # 12667 Down.
8	397	1107-1202	26						50%	Replaced leaky jugs on #1202.
9	398	1108-1203	27						70%	
10	399	1109-1204	28			394			70%	EOT # 394 Tape MKTs
11	401	1110-1205	29			395			70%	BOT # 395 #900 10 sec All ones #400 6 sec windstrip.
12	402	1111-1206	30						70%	
13	403	1112-1207	31						70%	
14	404	1113-1208	32						70%	
15	405	1114-1209	33						70%	
16	406	1115-1210	34						70%	
17	407	1116-1211	35						70%	
18	408	1117-1212	36						70%	
19	409	1118-1213	37						70%	
20	410	1119-1214	38						70%	
21	411	1120-1215	39						70%	
22	412	1121-1216	40			395			70%	EOT # 395 Tape MKTs
23	414	1122-1217	41			396			70%	BOT # 396 #900 10 sec All ones #413 6 sec windstrip.
24	415	1123-1218	42						70%	
25	416	1124-1219	43						70%	Finished For The Day

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

CLIENT <b>COCORP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Marshall</b>	DATE <b>6-6-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road Rolling Hills</b>	WEATHER <b>Clear + Windy</b>	LINE NO. <b>1</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 <del>933</del>	pulse	1 - 6 sec				396	OUT	IN		Recorder set AT 1196-1197
2 <del>934/935</del>	EINT	2 - " "								STA's * 1177 Dead due to Bridge.
3 <del>936/939</del>	DRD	4 - " "								From STA's * 1193-1194 1 mile offset North.
4 <del>953/954</del>	Sum TEST	2 - " "								
5 <del>969/961</del>	NRJ TEST	2 - " "								
6 932	Similarity	1 - 31 sec	225	5					50%	
7 417	Windstrip	1 - 6 sec	1							
8 418	1224	1125-1220	1						70%	
9 419	1225	1126-1221	2						70%	
10 420	1226	1127-1222	3						70%	
11 421	1227	1128-1223	4						70%	
12 422	1228	1129-1224	5						70%	
13 423	1229	1130-1225	6						50%	Wind Picking up.
14 424	1230	1131-1226	7						70%	
15 425	1231	1132-1227	8			396			70%	EOT * 396 Tape MKTs
16 427	1232	1133-1228	9			397			70%	Bot * 397 * 900 10 sec All over * 426 6 sec windstrip
17 428	1233	1134-1229	10						70%	
18 429	1234	1135-1230	11						70%	stacked 1st half
19 skip	1235	1136-1231	12						SKIP	Due to house.
20 430	1236	1137-1232	13						50%	
21 431	1237	1138-1233	14						70%	
22 432	1238	1139-1234	15						70%	
23 433	1239	1140-1235	16						70%	
24 434	1240	1141-1236	17						70%	From STA's * 1241-1242 offset 2,660' North
25 435	1241	1142-1237	18						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 1111222 <sup>x</sup> 12221111	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4 - 1100's 1 - 900	TYPE GEOPHONE ETL EV22B	FREQUENCY 7.5 Hz	STATION INTERVAL 330'
REMARKS 8 ms Sample Rate / 51 sec Record Length	OBSERVER R. Patten	PARTY MGR. L. Davis	LINE DIR. 1 TO 24 E → W		

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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>6-6-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road Rolling Hills</b>	WEATHER <b>Clear + windy.</b>	LINE NO. <b>1</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	Skip	1143 - 1238	19	5		397	OUT	IN	Skip	Due to School.
2	436	1144 - 1239	20						708	
3	437	1145 - 1240	21						708	
4	438	1146 - 1241	8						508	stacked 1st half. Moved Recorder to 1210-1211.
5	Skip	1147 - 1242	9						Skip	Due to water well.
6	439	1148 - 1243	10			397			708	EOT * 397 Tape mKTS
7	441	1149 - 1244	11			398			708	Bot * 398 * 900 10sec All ones * 440 6sec windstrip
8	442	1150 - 1245	12						708	
9	443	1151 - 1246	13						708	
10	444	1152 - 1247	14						708	
11	445	1153 - 1248	15						508	Stacked 1st half
12	Skip	1154 - 1249	16						Skip	Due to house
13	446	1155 - 1250	6						508	Moved Recorder to 1221-1222. Stacked last half.
14	447	1156 - 1251	7						708	
15	448	1157 - 1252	8						708	
16										Finished For the Day.
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
REMARKS	OBSERVER		PARTY MGR.		

OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER

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Geosource Inc.

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CLIENT <b>COCORP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Marshall</b>	DATE <b>6-8-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road Rolling Hills</b>	WEATHER <b>Partly cloudy + windy.</b>	LINE NO. <b>1</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				398	OUT	IN		Recorder set AT 1227-1228.
2	934/935 EINT	2 - " "								STA's 1177 open Due to Bridge.
3	936/939 D.R.D.	4 - " "								From STA's 1193-1194 OFFSET 1 mile North
4	953/954 Sum TEST	2 - " "								*1241-1242 OFFSET 2660' North.
5	969/961 NRJ TEST	2 - " "								Vib * 12666 Down.
6	932 Similarity	1 - 31 sec	225	4					50%	Very windy Rewalking line checking Jug plants.
7	449 Windstrip	1 - 6 sec	3							
8	450 1257	1158-1253	3	4					70%	
9	451 1258	1159-1254	4						70%	
10	452 1259	1160-1255	5			398			70%	EOT * 398 TAPE MKTS
11	454 1260	1161-1256	6			399			70%	BOT * 399 * 900 10sec All ones * 453 6sec windstrip
12	455 1261	1162-1257	7						50%	stacked 1st half.
13	SKIP 1262	1163-1258	8						SKIP	Due to house
14	456 1263	1164-1259	9						50%	
15	457 1264	1165-1260	10						70%	
16	458 1265	1166-1261	11						70%	
17	459 1266	1167-1262	12						50%	
18	SKIP 1267	1168-1263	13						SKIP	due to house
19	SKIP 1268	1169-1264	14						SKIP	due to water well.
20	460 1269	1170-1265	15						70%	wind 25 TO 30 MPH + Gusting getting to
21	461 1270	1171-1266	16						70%	NOISY TO SHOOT. Shutting Down
22										
23										Finished For The Day.
24										
25										

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8 → 32 Hz / 31 sec	SWEEP PATTERN 4/63	SWEEPS PER PATTERN 8	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN         2 2 2   1 2 2 2	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4 - V 1100s 1 - V 900	TYPE GEOPHONE ETL EV22B	FREQUENCY 7.5 Hz	STATION INTERVAL 330'
REMARKS 8ms Sample Rate / 51 sec Record Length	OBSERVER R. Patton	PARTY MGR. J. Davis	LINE DIR. 1 TO 24 E → W		

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CLIENT <b>COCORP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Marshall</b>	DATE <b>6-9-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road Rolling Hills</b>	WEATHER <b>Clear to Partly Cloudy + Windy</b>	LINE NO. <b>1</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				399	OUT	IN		Recorder set AT 1241-1242
2	934/935 EINT	2 - " "								STA'S 1177 Open Due To Bridge
3	936/939 DRD	4 - " "								From STA'S 1193-1194 offset 1 mile North
4	937/954 Sum TEST	2 - " "								*1241-1242 offset 2.660' North.
5	960/961 NRJ TEST	2 - " "								Vib* 12666 Down.
6	932 Similarity	1 - 31 sec	225	4					50%	Tractors plowing IN Field AT 1237-1238.
7	462 Windstrip	1 - 6 sec	3							
8	463 1271	1172 - 1267	3	4					70%	
9	464 1272	1173 - 1268	4						70%	
10	465 1273	1174 - 1269	5			399			70%	EOT* 399 Tape MKTs.
11	467 1274	1175 - 1270	6			400			50%	Stacked 1st half. BOT* 400 *900 10 sec All ones.
12	SKIP 1275	1176 - 1271	7						70%	SKIP* 466 6 sec Windstrip. *1275 Skip Due TO house.
13	468 1276	1177 - 1272	8						70%	Stacked Last half.
14	469 1277	1178 - 1273	9						70%	
15	470 1278	1179 - 1274	10						70%	NOTE AT 1288 Vibs had to make go
16	471 1279	1180 - 1275	11						70%	Round due to weak Bridge on go Round
17	472 1280	1181 - 1276	12						70%	Vib* 17311 Broke Down Front Engine
18	473 1281	1182 - 1277	13						70%	died.
19	474 1282	1183 - 1278	14						70%	
20	475 1283	1184 - 1279	15						70%	
21	476 1284	1185 - 1280	16						70%	
22	477 1285	1186 - 1281	17						70%	
23	478 1286	1187 - 1282	18			400			70%	Stacked 1st half. EOT* 400 Tape MKTs.
24	SKIP 1287	1188 - 1283	19						70%	due TO mobile home.
25	SKIP 1288	1189 - 1284	20						70%	due TO Bridge.

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 11111222112221111	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-Y 11003 1-Y 900	TYPE GEOPHONE ETLEV22B	FREQUENCY 7.5 Hz	STATION INTERVAL 330'
REMARKS 8 ms Sample Rate / 51 sec Record Length	OBSERVER R. Patton	PARTY MGR. P. Davis	LINE DIR. 1 TO 24 E → W		

OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER

Exploration Services  
Division  
Geosource Inc.

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CLIENT <b>COCO RP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Marshall</b>	DATE <b>6/12/81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road Rolling Hills</b>	WEATHER <b>Clear to Partly + Wet + Windy</b>	LINE NO. <b>1</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				402	OUT	IN		Recorder Set at 1261-1262
2	934/935 EINT	2 - " "								Station's 1193-1194 off set 1 mile North
3	936/939 DRD	4 - " "								# 1241-1242 off set 2,660' North.
4	953/954 Sum TEST	2 - " "								Bot # 402 * 900 10 sec All ones.
5	969/961 NRS TEST	2 - " "								# 1297-1298 1,327' off set North.
6	932 Similarity	1 - 31 sec	225						50%	# 1289-1290 1 mile off set. North.
7	479 Wind Strip	1 - 6 sec	1							Wind Picking up.
8	480 1289	1190-1285	1						50%	Stacked last half Vib's making go around.
9	481 1290	1191-1286	2	4					70%	Vib # 12666 would not pickup tones.
10	482 1291	1192-1287	3						70%	
11	483 1292	1193-1288	4						70%	
12	484 1293	1194-1289	5						70%	Standing by till Jug crew lays out cables in front.
13	485 1294	1195-1290	6	5					70%	Vib # 12666 back on line. Checking for dead
14	486 1295	1196-1291	7						70%	cables. due to offset.
15	487 1296	1197-1292	8						70%	
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										

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>4/6.3</b>	SWEEPS PER PATTERN <b>8</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN <b>11111222112221111</b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>4-V11085 1-V900</b>	TYPE GEOPHONE <b>ETLEV22B</b>	FREQUENCY <b>7.5 Hz.</b>	STATION INTERVAL <b>3.30'</b>
REMARKS <b>8ms. Sample Rate / 51 sec. Record</b>			OBSERVER <b>R. Patton / J. Wingo</b>	PARTY MGR. <b>L. Davis</b>	LINE DIR. 1 TO 24 <b>E → W</b>

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>6-13-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road Rolling Hills</b>	WEATHER <b>Clear to Partly Cloudy + Windy</b>	LINE NO. <b>1</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				402	OUT	IN		Recorder set at 1268-1269
2	934/935 EINT	2 - " "								
3	936/939 D.R.D.	4 - " "								
4	953/954 Sum TEST	2 - " "								
5	960/961 NRT TEST	2 - " "								Wind Gusting 25-30 mph.
6	932 Similarity	1 - 31 sec	225			402			50%	EOT * 402 Tape MKTS
7	488 Windstrip	1 - 6 sec	2			403				Bot * 403 * 900 10 sec All ones.
8	489 1297	1198-1293	2						70%	
9	490 1298	1199-1294	3						70%	Shutting down due to Wind.
10										
11										
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 / 3/sec	SWEEP PATTERN 4163	SWEEPS PER PATTERN 8	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN 1111222112221111	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-γ 11005 1-γ 900	TYPE GEOPHONE ETLEV22B	FREQUENCY 7.5 Hz	STATION INTERVAL 330'
REMARKS 8 ms Sample Rate / 51 sec Record Length.	OBSERVER R. Patton	J. Zwings.	PARTY MGR. S. Davis.	LINE DIR. 1 TO 24 E → W	

**OBSERVER'S REPORT  
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>Marshall</b>	DATE <b>6/16/81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road + Rolling Hills</b>	WEATHER <b>Clear + Windy + Wet</b>		LINE NO. <b>1</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.				403	OUT	IN		Recorder set at 12.68 - 12.69
2	<del>934</del> 935 EI NT	2 - .. ..								Stations 1241 - 1242 OFF set 2,660' North,
3	<del>936</del> 939 D.R.D.	4 - .. ..								Stations 1289 - 1290 OFF set 1 mile North,
4	<del>953</del> 954 Sum Test	2 - .. ..								Stations 1297 - 1298 OFF set 1/4 mile North.
5	<del>960</del> 961 N.R.J. Test	2 - .. ..								
6	932 Similarity	1 - 3/1 sec.	225	5						50%
7	491 Wind Strip	1 - 6 sec.	4							-
8	492 1299	1200 - 1295	4							70%
9	493 1300	1201 - 1296	5							70%
10	494 1301	1202 - 1297	6							70%
11	495 1302	1203 - 1298	7							70%
12	496 1303	1204 - 1299	8							70%
13	497 1304	1205 - 1300	9							70%
14	498 1305	1206 - 1301	10							70%
15	499 1306	1207 - 1302	11							70%
16	500 1307	1208 - 1303	12			403				70%
17	Skip 1308	1209 - 1304	13							Skip
18	Skip 1309	1210 - 1305	14							Skip
19	502 1310	1211 - 1306	15			404				70%
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>41163</b>	SWEEPS PER PATTERN <b>8</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN <b>11111222112221111</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>ETLEV22B</b>	FREQUENCY <b>7.5 Hz.</b>	STATION INTERVAL <b>330'</b>
REMARKS <b>Runs Sample Rate 1/51 sec. Record Length</b>			OBSERVER <b>R. Patton / J. Wings</b>	PARTY MGR. <b>L. Davis</b>	

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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>6-17-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road Rolling Hills</b>	WEATHER <b>Clear + Windy</b>	LINE NO. <b>1</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				404	OUT	IN		Recorder set AT 1283-1284
2	934/935 EINT	2 - " "								Stations 1241-1242 off set 2,660' North.
3	936/939 DR.D.	4 - " "								" 1289-1290 off set 1 mile North.
4	953/954 Sum TEST	2 - " "								" 1297-1298 off set 1/4 mile.
5	969/961 NRS TEST	2 - " "								
6	932 Similarity	1 - 31 sec	225	4						50%
7	503 Wind Strip	1 - 6 sec	1							
8	504 1311	1212-1307	1	4						70% Vib #12667 Down.
9	505 1312	1213-1308	2	5						70% Vib. #12667 Back on line.
10	506 1313	1214-1309	3							70%
11	507 1314	1215-1310	4							70%
12	508 1315	1216-1311	5							70%
13	509 1316	1217-1312	6							70%
14	510 1317	1218-1313	7							70%
15	511 1318	1219-1314	8							70%
16	512 1319	1220-1315	9							70%
17	513 1320	1221-1316	10			404				70% E.D.T. #404 Tape MKTS.
18	515 1321	1222-1317	11			405				70% B.D.T. #405 #900 10sec. Allones #14 6sec. Wind Strip
19	516 1322	1223-1318	12							70%
20	517 1323	1224-1319	13							70%
21	518 1324	1225-1320	14							70% Station #1324-1325 3/4 mile off set North.
22	519 1325	1226-1321	15							70% Wind gusting 25-30 mph.
23	520 1326	1227-1322	16							70%
24	521 1327	1228-1323	17							70% VP-1328 Stacked due to house.
25	522 1328	1229-1324	18							70% Shutting down due to Gusting winds.

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8 → 32Hz / 31sec	SWEEP PATTERN 4163	SWEEPS PER PATTERN 8	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN 11111 222 11222 11111	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-γ 1100s 1-γ 900	TYPE GEOPHONE ETL EV22B	FREQUENCY 7.5Hz	STATION INTERVAL 330'
REMARKS 8ms Sample Rate / 51sec Record Length	OBSERVER R. Patton	PARTY MGR. J Wings	LINE DIR. 1 TO 24 E → W		

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DIGITAL VIBROSEIS RECORDER**

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Geosource Inc.**

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CLIENT <b>COCORP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Marshall</b>	DATE <b>6-18-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road Rolling Hills</b>	WEATHER <b>Cloudy</b>		LINE NO. <b>1</b>

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER			REMARKS
							LOCUT	60~	AMP	
1	933	Pulse	1-6sec.			405	OUT	IN		Recorder set AT 1300-1301
2	<del>934</del> 935	FWNT	2- " "							Station# 1241-1242 off set 2, 660' North.
3	<del>936</del> 937	D.R.D.	4- " "							" 1289-1290 " " 1 mile "
4	<del>953</del> 954	SumTest	2- " "							" 1297-1298 " " 1/4 mile "
5	<del>956</del> 961	N.R.J. Test	2- " "							" 1324-1325 " " 3/4 mile "
6	932	Similarity	1-3/1sec.	225	4					50% Vib #12666 Down, in Shop.
7	523	Wind Strip	2-6sec.	2						
8	524	1329	1230-1325	2						50% Stacked East half due to house.
9	524	1330	1231-1326	3						70% Sta. #1330 + 1331 CDP off position.
10	525	1331	1232-1327	4						70% E.O.T. #405 Tape MKTS.
11	526	1332	1233-1328	5		405				70% B.O.T. #406 #900 10 sec. All ones #527 6sec. Wind Strip.
12	528	1333	1234-1329	6		406				70% Standing by to replace bad cables.
13	529	1334	1235-1330	7						70% On VP 1333 + 1334 we had to pick up sta #1234
14	530	1335	1236-1331	8						70% 1235 & leaving 2 dead in back due to Farmer cutting
15	531	1336	1237-1332	9						70% grass.
16	532	1337	1238-1333	10						50%
17	533	1338	1239-1334	11						50%
18	534	1339	1240-1335	12						Skip due to house.
19										
20										
21										
22										
23										
24										
25										

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8 → 32Hz / 3/1sec.		SWEEP PATTERN 4/63		SWEEPS PER PATTERN 8	
SWEEP PATTERNS PER SETUP 1		PATCH PATTERN 11111 222 11222 11111			
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-Y 1100's 1-Y 900	TYPE GEOPHONE ETLEV 22B	FREQUENCY 7.5Hz	STATION INTERVAL 330'
REMARKS 8ms Sample Rate / 51sec Record Length			OBSERVER R. Patten J. Wings	PARTY MGR. P. Davis	

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DIGITAL VIBROSEIS RECORDER**

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Geosource Inc.**

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CLIENT <b>COCORP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Marshall</b>	DATE <b>6-19-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road Rolling Hills</b>	WEATHER <b>Clear + Windy</b>	LINE NO. <b>1</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			406	OUT	IN		Recorder set RT 1313-1314
2	934/935	FINT	2 - " "							Stations 1289-1290 1 mile offset North.
3	936/939	D.R.D.	4 - " "							" 1297-1298 1/4 mile " " "
4	953/954	Sum Test	2 - " "							" 1324-1325 3/4 mile " " "
5	960/961	N.R.S. Test	2 - " "							
6	932	Similarity	1 - 31 sec	225	4					50%
7	534	Wind Strip	1 - 6 sec	240						
8	535	1340	1241-1336	240						50% Stack last half.
9	536	1341	1242-1337	1						70%
10	537	1342	1243-1338	2						70%
11	538	1343	1244-1339	3						70%
12	539	1344	1245-1340	4		406				70% E.O.T.#406 Tape MKTS.
13	541	1345	1246-1341	5		407				70% B.O.T.#407 #900 10sec. All ones. #540 6 sec. Wind Strip.
14	542	1346	1247-1342	6						70%
15	543	1347	1248-1343	7						70% Stacked first half.
16	Skip	1348	1249-1344	8						Skip due to water well.
17	544	1349	1250-1345	9						70%
18	545	1350	1251-1346	10						70%
19	546	1351	1252-1347	11						70% Stacked 1st half.
20	Skip	1352	1253-1348	12						Skip due to water well.
21	547	1353	1254-1349	13						70%
22	548	1354	1255-1350	14						70%
23	549	1355	1256-1351	15						70%
24	550	1356	1257-1352	16		407				70% Stacked 1st half. E.O.T.#407 Tape MKTS.
25	Skip	1357	1258-1353	17						Skip due to River. Temp. Stopping Line #7. Moving to line #4

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>1111222112221111</b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>4-γ 1100's 1-γ 900</b>	TYPE GEOPHONE <b>FTL EV22B</b>	FREQUENCY <b>7.5 Hz</b>	STATION INTERVAL <b>330'</b>
REMARKS <b>8ms Sample Rate / 51 sec. Record Length</b>		OBSERVER <b>R. Patton</b>	PARTY MGR. <b>J. Wings</b>		<b>F. Davis</b>

# OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

Exploration Services  
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CLIENT <b>COCOP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Marshall</b>	DATE <b>10-29-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road, Rolling Hills</b>	WEATHER <b>Partly Cloudy + Windy</b>	LINE NO. <b>1</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				531	OUT	IN		BOT * 531 * 900 10 sec All ones.
2	934/935 EINT	2 - " "								Having to lay out cables, checking line.
3	936/939 DRD	4 - " "								Starting back on line #1, Vibs will be pushing line.
4	953/954 Sum Test	2 - " "								
5	960/961 NRT TEST	2 - " "								Other seismic crews in area.
6	932 Similarity	1 - 32 sec	217	5					30%	
7	551 Wind Strip	1 - 6 sec								Sta. #1453-1454 1 mile off set South.
8	552 1360	1390-1485	39	5					50%	Off set test - vibs offset 30 sta.
9	553 1360	1364-1459	13						50%	
10	554 1361	1365-1460	14						50%	
11	555 1362	1366-1461	15						50%	
12	556 1363	1367-1462	16						50%	
13	557 1364	1368-1463	17						50%	
14	558 1365	1369-1464	18						50%	
15	559 1366	1370-1465	19						50%	
16	560 1367	1371-1466	20						50%	
17	561 1368	1372-1467	21						50%	
18	562 1369	1373-1468	22			531			50%	E.I.T # 531 Tape MKTS.
19	564 1370	1374-1469	23			532			50%	B.D.T # 532 # 900 10 sec. All ones # 563 6 sec.
20	565 1371	1375-1470	24						50%	Wind Strip.
21	566 1372	1376-1471	25						50%	
22	567 1373	1377-1472	26	4					50%	vib # 16344 down, pad legs loose.
23	568 1374	1378-1473	27						50%	
24										
25										

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 8	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN 	
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 / 52 sec Record Length	OBSERVER R. Patten	J Wings	PARTY MGR. P. Davis	LINE DIR. 1 TO 24 E → W	





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CLIENT <i>COCORP</i>	AREA <i>Kansas</i>	STATE <i>Kansas</i>	COUNTY <i>Marshall</i>	DATE <i>11/6/81</i>
CREW NO. <i>6834</i>	TERRAIN	WEATHER <i>clear &amp; wet</i>		LINE NO. <i>1</i>

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	
<i>1</i>	<i>1405</i>	<i>1409-1504</i>	<i>28</i>	<i>4</i>		<i>534</i>	<i>OUT</i>	<i>IN</i>	<i>50%</i>	
<i>2</i>	<i>1406</i>	<i>1410-1505</i>	<i>29</i>			<i>534</i>			<i>50%</i>	<i>E.O.T #534 Tape MKTS</i>
<i>3</i>	<i>1407</i>	<i>1411-1506</i>	<i>30</i>			<i>535</i>			<i>50%</i>	<i>B.O.T #535 #1900 10sec. All ones #. 606 6sec. wind</i>
<i>4</i>	<i>1408</i>	<i>1412-1507</i>	<i>31</i>						<i>50%</i>	<i>Strip.</i>
<i>5</i>	<i>1409</i>	<i>1413-1508</i>	<i>32</i>						<i>50%</i>	
<i>6</i>									<i>30%</i>	
<i>7</i>										
<i>8</i>										
<i>9</i>										
<i>10</i>										
<i>11</i>										
<i>12</i>										
<i>13</i>										
<i>14</i>										
<i>15</i>										
<i>16</i>										
<i>17</i>										
<i>18</i>										
<i>19</i>										
<i>20</i>										
<i>21</i>										
<i>22</i>										
<i>23</i>										
<i>24</i>										
<i>25</i>										

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 <i>J. Wingo</i>			PARTY MGR.		

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc. 5

CLIENT <b>COCORP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Marshall</b>	DATE <b>11/7/81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road</b>	WEATHER <b>cloudy</b>		LINE NO. <b>1</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				535	OUT	IN		Recorder set at 1453-1454
2	<del>934</del> 935	FTNT								
3	<del>936</del> 939	D.R.D.								
4	<del>953</del> 954	Sum test								
5	<del>960</del> 961	N.R.J. test								
6	935	Similarity	217	4					30%	Omit file #932 vib# 23652 Inst. Problem
7	610	Wind Strip	33							
8	611	1410	1429-1525	49					50%	off set test vib's off set 19 sta.
9	612	1410	1414-1509	33					50%	
10	613	1411	1415-1510	34					50%	
11	614	1412	1416-1511	35					50%	
12	615	1413	1417-1512	36					50%	
13	616	1414	1418-1513	37					50%	
14	617	1415	1419-1514	38		535			50%	E.O.T #535 tape MKTS.
15	619	1416	1420-1515	39		536			50%	B.O.T #536 #900 10sec. All ones. #618 6sec Wind
16	620	1417	1421-1516	40					50%	strip.
17	621	1418	1422-1517	41					50%	
18	622	1419	1423-1518	42					50%	
19	623	1420	1424-1519	43					50%	
20	624	1421	1425-1520	44					50%	
21	625	1422	1426-1521	45					50%	
22										
23										
24										
25										

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <b>MDS-10</b>
SWEEP FREQUENCY <b>8-32Hz / 32sec.</b>	SWEEP PATTERN <b>4163</b>	SWEEPS PER PATTERN <b>8</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN <b>     </b>	
GEOPHONES PER PATCH <b>2H</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>4-11100 1-1900</b>	TYPE GEOPHONE <b>ETLE22B</b>	FREQUENCY <b>7.5Hz.</b>	STATION INTERVAL <b>330'</b>
REMARKS <b>8ms Sample Rate / 52sec. Record</b>			OBSERVER <b>J. Wingo</b>	PARTY MGR. <b>L. Davis</b>	LINE DIR. 1 TO 24 <b>E → W</b>

**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>11/19/81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road, Rolling Hills</b>	WEATHER <b>clear</b>	LINE NO. <b>1</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.				536	out	IN		Recorder set at 1485-1486
2	<del>934</del> 935 FTNT	2- " "								
3	<del>936</del> 937 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	1-32 sec.	217	4					30%	vib# 23652 down Inst Problem
7	626 Wind Strip	1-6 sec.								
8	627 1423	1427-1522	14						50%	
9	628 1424	1428-1523	15						50%	
10	629 1425	1429-1524	16						50%	
11	630 1426	1430-1525	17			536			50%	E.O.T # 536 Tape MKTS.
12	632 1427	1431-1526	18			537			50%	B.O.T # 537 #900 10sec. All ones. #631 6sec.
13	633 1428	1432-1527	19						50%	Wind strip. Vib# 17311 down due to short
14	634 1429	1433-1528	20						50%	in wiring. Repaired vib# 23652, Back on line.
15	635 1430	1434-1529	21						50%	Picking up energy from other seismic crew
16	636 1431	1435-1530	22						50%	in area.
17	637 1432	1436-1531	23						50%	
18	638 1433	1437-1532	24						50%	
19	639 1434	1438-1533	25						50%	
20	640 1435	1439-1534	26						50%	
21	641 1436	1440-1535	27						50%	Picking up small amount of leakage, had
22	642 1437	1441-1536	28						50%	to replace 2 cables.
23	643 1438	1442-1537	29						50%	
24	Skip 1439	1443-1538	30						Skip	
25	644 1440	1444-1539	31			537			50%	E.O.T # 537 Tape MKTS.

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <b>MDS-10</b>
SWEEP FREQUENCY <b>8-32 Hz / 32 sec.</b>	SWEEP PATTERN <b>4/6.3</b>	SWEEPS PER PATTERN <b>8</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN <b>     </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>ETLEV22B</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 / J. Wingo</b>	PARTY MGR. <b>J. Davis</b>		

**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>Marshall</b>	DATE <b>11-10-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road, Rolling Hills</b>	WEATHER <b>Clear + Windy</b>		LINE NO. <b>1</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				538	cut	IN		Recorder set at 1511-1512
2	934/433 FTNT	2-11 11								From STA*1453-1454 1 mile OFFSET SOUTH
3	935/434 D.R.D	4-11 11								Hwy * 77 AT STA* 1501 getting some Flicks From Traffic
4	936/435 SUMTEST	2-11 11								Crossing cable.
5	937/436 N.R.J test	2-11 11								
6	932 SIMILARITY	1-32 sec	217	5					30%	Other Crews working IN AREA.
7	645 Wind strip	1-6 sec	6						-	
8	646 1441	1445-1540	6	5					50%	
9	647 1442	1446-1541	7						50%	
10	648 1443	1447-1542	8						50%	
11	649 1444	1448-1543	9						50%	
12	650 1445	1449-1544	10						50%	
13	651 1446	1450-1545	11						50%	
14	652 1447	1451-1546	12						50%	
15	653 1448	1452-1547	13						50%	
16	654 1449	1453-1548	14						50%	
17	655 1450	1454-1549	15			538			50%	EOT * 538 Tape MKTS
18	657 1451	1455-1550	16			539			50%	Bot * 539 *900 10sec All ones *656 6sec wind strip.
19	658 1452	1456-1551	17						50%	
20	659 1453	1457-1552	18						50%	
21	660 1454	1458-1553	19						50%	
22	661 1455	1459-1554	20						30%	Stacked 1st half
23	662 1456	1460-1555	21	4					30%	Stacked last half Vib * 14256 Down loose Pad Bolts.
24	663 1457	1461-1556	22						50%	
25	664 1458	1462-1557	23						50%	

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <b>MDS-10</b>
SWEEP FREQUENCY <b>8-32Hz/32sec</b>	SWEEP PATTERN <b>4/6.3</b>	SWEEPS PER PATTERN <b>8</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-y1100's 1-y900</b>	TYPE GEOPHONE <b>ETLEV22B</b>	FREQUENCY <b>7.5 Hz</b>	STATION INTERVAL <b>330'</b>
REMARKS <b>8ms. Sample RATE / 52sec. Record</b>			OBSERVER <b>R. Patton / J. Quinn / M. Richey</b>	PARTY MGR. <b>L. Davis</b>	

# OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

Exploration Services  
Division  
Geosource Inc. 8

CLIENT <b>COCORP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Marshall</b>	DATE <b>11-10-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road + Rolling Hills</b>	WEATHER <b>Clear</b>		LINE NO. <b>1</b>

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F L T E R			REMARKS
							LOCUT	60 ~	AMP	
1	665	1459	1463-1558	24	4	539	OUT	IN	30%	Stacked 1st half
2	666	1460	1464-1559	25					50%	
3	667	1461	1465-1560	26					50%	
4	668	1462	1466-1561	27					50%	
5	669	1463	1467-1562	28		539			50%	EOT *539 Tape MKTS
6	671	1464	1468-1563	29		540			50%	BOT *540 *900 10 sec All ones *670 6 sec wind strip.
7	672	1465	1469-1564	30					50%	
8	673	1466	1470-1565	31					50%	
9	674	1467	1471-1566	32					50%	STA *1566 open due to Road.
10	675	1468	1472-1567	33					50%	
11	676	1469	1473-1568	34					50%	
12	677	1470	1474-1569	35					50%	
13	678	1471	1475-1570	36					50%	
14	679	1472	1476-1571	37					50%	
15	680	1473	1477-1572	38					50%	
16	681	1474	1478-1573	39		540			50%	Finished For the Day. EOT *540 Tape MKTS.
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
REMARKS			OBSERVER		PARTY MGR.

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc. 9

CLIENT <b>COCORP</b>	AREA <b>KANSAS</b>	STATE <b>KANSAS</b>	COUNTY <b>MARSHALL</b>	DATE <b>11-11-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road, Rolling Hills</b>	WEATHER <b>clear &amp; WINDY</b>		LINE NO. <b>1</b>

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F L T E R			REMARKS
							LOCUT	60~	AMP	
1	Pulse	1-6 sec				541	OUT	IN		Recorder set at 1545-1546.
2	ELNT	2-11 11								STA* 1566 open Due TO Road* BOT* 541 * 900 10sec
3	DRD	4-11 11								All ones.
4	SUM test	2-11 11								
5	N.R.J. test	2-11 11								
6	SIMILARITY	1-32 sec	217	4					30%	Vib *23651 DOWN working on AUX Back Engine.
7	WIND strip	1-6 sec	6							
8	1475	1517-1612	44	4					50%	SHAKING OFFSET VibS 42 STATIONS From 1st Line station
9	1475	1479-1574	6						50%	
10	1476	1480-1575	7						50%	
11	1477	1481-1576	8						50%	
12	1478	1482-1577	9						50%	
13	1479	1483-1578	10						50%	Other Crews working IN Area.
14	1480	1484-1579	11						50%	
15	1481	1485-1580	12						50%	
16	1482	1486-1581	13	5					50%	Vib* 23651 Back ON Line.
17	1483	1487-1582	14						50%	
18	1484	1488-1583	15			541			50%	Foot * 541 Tape MKTS
19	1485	1489-1584	16			542			50%	Bot * 542 * 900 10sec All ones * 694 6 sec wind strip
20	1486	1490-1585	17						50%	
21	1487	1491-1586	18						50%	
22	1488	1492-1587	19						50%	
23	1489	1493-1588	20						50%	
24	1490	1494-1589	21						50%	
25	1491	1495-1590	22						50%	

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <b>MDS-10</b>
SWEEP FREQUENCY <b>8-32Hz/32sec</b>	SWEEP PATTERN <b>4/63</b>	SWEEPS PER PATTERN <b>8</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN      X	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>4-y100's 1-y900</b>	TYPE GEOPHONE <b>ETLEV228B</b>	FREQUENCY <b>7.5 Hz</b>	STATION INTERVAL <b>330'</b>
REMARKS <b>8ms Sample RATE / 52 sec. Record</b>	OBSERVER <b>B. Patton / M. Richey</b>	PARTY MGR. <b>L. DAVIS</b>			

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc. 10

CLIENT <b>COCORP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Marshall</b>	DATE <b>11-11-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road + Rolling Hills</b>	WEATHER <b>Clear</b>	LINE NO. <b>1</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	702	1492	1496-1591	23	5		542	OUT	IN	50%	
2	703	1493	1497-1592	24						50%	
3	704	1494	1498-1593	25						50%	
4	705	1495	1499-1594	26						50%	
5	706	1496	1500-1595	27						50%	
6	707	1497	1501-1596	28		542				50%	EOT * 542 TAPE MKTS.
7	709	1498	1502-1597	29		543				50%	BOT * 543 * 900 10 sec All ones * 708 6 sec wind strip
8	710	1499	1503-1598	30						50%	
9	711	1500	1504-1599	31						30%	
10	712	1501	1505-1600	32						30%	
11	713	1502	1506-1601	33	H					50%	Vib * 14256 Down Iq switch heating up
12	714	1503	1507-1602	34						50%	FRONT Engine died.
13	715	1504	1508-1603	35						50%	
14	716	1505	1509-1604	36						50%	
15											Finished For The Day
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	
REMARKS						OBSERVER			PARTY MGR.		

**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>MARSHALL</b>	DATE <b>11-12-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road &amp; Rolling Hills</b>	WEATHER <b>Clear &amp; WINDY</b>		LINE NO. <b>1</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				543	OUT	IN		Recorder set at 1575-1576
2	934 EINT	2-11 11								STA" 1566 open due to Road
3	936 D.R.D	4-11 11								
4	953 Sump test	2-11 11								Other crews WORKING IN Area.
5	960 N.R.J test	2-11 11								Electric Fences along wing.
6	932 SIMILARITY	1-32 sec	217	5					30%	
7	717 WIND Strip	1-6 sec.	7							
8	718 1506	1548-1643	45						50%	off set test.
9	719 1506	1510-1605	7						50%	Road grader working along line.
10	720 1507	1511-1606	8			543			50%	E.O.T #543 Tape MKTS
11	722 1508	1512-1607	9			544			50%	B.D.T.#544 #900 10sec. Allones #721 6sec. Wind
12	723 1509	1513-1608	10						50%	Strip.
13	724 1510	1514-1609	11						30%	Stacked 1 <sup>st</sup> half due to house.
14	5kip	1511	1515-1610	12					50%	Skip
15	725 1512	1516-1611	13						50%	
16	726 1513	1517-1612	14						50%	
17	727 1514	1518-1613	15						50%	
18	728 1515	1519-1614	16						50%	
19	729 1516	1520-1615	17						50%	
20	730 1517	1521-1616	18						50%	
21	731 1518	1522-1617	19						50%	
22	732 1519	1523-1618	20						50%	
23	733 1520	1524-1619	21						50%	
24	734 1521	1525-1620	22			544			50%	E.O.T #544 Tape MKTS.
25	736 1522	1526-1621	23			545			50%	B.D.T.#545 #900 10sec. Allones #735 6sec. Wind Strip.

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <b>MDS-10</b>
SWEEP FREQUENCY <b>8 → 32 Hz / 52 sec</b>	SWEEP PATTERN <b>4/6/3</b>	SWEEPS PER PATTERN <b>8</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>4-1100's 1-4900</b>	TYPE GEOPHONE <b>ETLEY 22B</b>	FREQUENCY <b>7.5 Hz</b>	STATION INTERVAL <b>330'</b>
REMARKS <b>8ms. Sample RATE / 52 sec. Record</b>			OBSERVER <b>P. Patton / M. Bichey / J. Wingo</b>	PARTY MGR. <b>L DAVIS</b>	

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc. 12

CLIENT <b>COCORP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Marshall</b>	DATE <b>11/12/81</b>
CREW NO. <b>6834</b>	TERRAIN	WEATHER <b>Clear &amp; Windy</b>		LINE NO.

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	737	1523	1527-1622	24	5		545	OUT	IN	50%	
2	738	1524	1528-1623	25						50%	
3	739	1525	1529-1624	26						50%	
4	740	1526	1530-1625	27						30%	stacked 1st half due to water well.
5	741	1527	1531-1626	28						30%	stacked 2nd half " " " "
6	742	1528	1532-1627	29						50%	
7	743	1529	1533-1628	30						50%	
8	744	1530	1534-1629	31						50%	
9	745	1531	1535-1630	32						50%	
10	746	1532	1536-1631	33						50%	
11	747	1533	1537-1632	34						50%	
12	748	1534	1538-1633	35			545			50%	E.O.T. #545 Tape MKTS.
13	750	1535	1539-1634	36			546			50%	B.D.T. #546 #900 10 sec. All ones #749 6 sec. Wind
14	751	1536	1540-1635	37						50%	Strip.
15	752	1537	1541-1636	38						50%	
16	753	1538	1542-1637	39						50%	
17	754	1539	1543-1638	40						50%	
18	755	1540	1544-1639	41						50%	
19	756	1541	1545-1640	42							
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**

**Exploration Services  
Division  
Geosource Inc.** 13

CLIENT <b>COCOPP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Marshall + Washington</b>	DATE <b>11-13-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road + Rolling Hills</b>	WEATHER <b>Clear + Windy</b>	LINE NO. <b>1</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				546	OUT	IN		Recorder set AT 1614-1615
2	934/935 FINT	2 - " "								Sta. # 1566 open due to Road
3	936/939 DRD	4 - " "								Other crews working in area.
4	953/954 SUM TEST	2 - " "								Electric Fences along line.
5	960/961 NRT TEST	2 - " "								
6	932 SIMILAXITY	1 - 32 sec	217	4						30% vib # 16344 down temp.
7	757 Wind strip	1 - 6 sec								
8	758 1542	1580-1675	37							50% off set test.
9	759 1542	1546-1641	4							50%
10	760 1543	1547-1642	5							50%
11	761 1544	1548-1643	6			546				50% E.O.T. # 546 Tape MKTS
12	SKIP 1545	1549-1644	7							Skip due to barn.
13	SKIP 1546	1550-1645	8							Skip due to water well
14	763 1547	1551-1646	9			547				50% B.O.T. # 547 # 900 10sec. All ones. # 762 6sec. Wind
15	764 1548	1552-1647	10							50% Strip.
16	765 1549	1553-1648	11							50%
17	766 1550	1554-1649	12							50%
18	767 1551	1555-1650	13							50%
19	768 1552	1556-1651	14							50%
20	769 1553	1557-1652	15							50%
21	770 1554	1558-1653	16							50%
22	771 1555	1559-1654	17							50%
23	772 1556	1560-1655	18							50%
24	773 1557	1561-1656	19							50%
25	774 1558	1562-1657	20							50%

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
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SWEEP FREQUENCY 8 → 32 Hz / 32 sec	SWEEP PATTERN 4/63	SWEEPS PER PATTERN 8	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN      X
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-V 1100s 1-V 900	TYPE GEOPHONE ETLEV22.8	FREQUENCY 7.5 Hz
STATION INTERVAL 330'		LINE DIR. 1 TO 24 E → W		

REMARKS 8ms Sample Rate / 52 sec Record Length	OBSERVER R. Patten J. Wingo	PARTY MGR. L. Davis
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**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc. 14

CLIENT <b>COCORP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Marshall</b>	DATE <b>11/13/81</b>
CREW NO. <b>6834</b>	TERRAIN	WEATHER <b>Clear + Windy</b>		LINE NO. <b>1</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	775	1559	1563-1658	21	4	547	OUT	IN	50%	E.O.T. # 547 Tape MKTs.
2	777	1560	1564-1659	22		548			50%	B.O.T. # 548 #900 10sec. All ones # 776 6sec Wind
3	778	1561	1565-1660	23					50%	Strip.
4	779	1562	1566-1661	24					50%	
5	780	1563	1567-1662	25					50%	
6	781	1564	1568-1663	26					50%	
7	782	1565	1569-1664	27					50%	
8	783	1566	1570-1665	28					50%	
9	784	1567	1571-1666	29					50%	
10	785	1568	1572-1667	30					50%	
11	786	1569	1573-1668	31					50%	
12	787	1570	1574-1669	32					50%	
13	788	1571	1575-1670	33					50%	
14	789	1572	1576-1671	34		548			50%	E.O.T. # 548 Tape MKTs.
15	791	1573	1577-1672	35		549				B.O.T. # 549 #900 10sec. All ones. # 790 6sec. Wind Strip.
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**

**Exploration Services  
Division**  
Geosource Inc. 15

CLIENT <b>COCORP</b>	AREA <b>KANSAS</b>	STATE <b>KANSAS</b>	COUNTY <b>WASHINGTON</b>	DATE <b>11-14-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road + Rolling Hills</b>	WEATHER <b>Clear + Windy</b>		LINE NO. <b>1</b>

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	F L T E R			REMARKS
							LOCUT	60 ~	AMP	
1	933 Pulse	1-6 sec				549	OUT	IN		Recorder SET AT 1649-1650
2	<del>934</del> 935 FINT	2-11 11								Other seismic crews working in area.
3	<del>936</del> 939 D.R.D	4-11 11								
4	<del>953</del> 954 SUM test	2-11 11								
5	<del>960</del> 961 N.R.J. test	2-11 11								
6	932 SIMILARITY	1-32 sec	217						30%	vib #16344 down, body work.
7	792 WIND strip	1-6 sec	1							
8	793 1574	1578-1673	32						50%	
9	794 1574	1578-1673	1						50%	
10	795 1575	1579-1674	2						50%	
11	796 1576	1580-1675	3						50%	
12	797 1577	1581-1676	4						50%	
13	798 1578	1582-1677	5						50%	
14	799 1579	1583-1678	6						50%	
15	800 1580	1584-1679	7						50%	
16	801 1581	1585-1680	8						50%	
17	802 1582	1586-1681	9			549			50%	E.O.T #549 + TAFE MKTS
18	804 1583	1587-1682	10			550			50%	B.O.T #550 #900 10sec All one #803 6sec.
19	805 1584	1588-1683	11						50%	WIND strip
20	806 1585	1589-1684	12						50%	
21	807 1586	1590-1685	13						50%	
22	808 1587	1591-1686	14						50%	
23	809 1588	1592-1687	15						50%	
24	810 1589	1593-1688	16						50%	
25	811 1590	1594-1689	17						50%	

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <b>MDS-10</b>
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SWEEP FREQUENCY <b>8 → 32 Hz / 32 sec</b>	SWEEP PATTERN <b>4/63</b>	SWEEPS PER PATTERN <b>8</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN <b>     </b>
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>4-Y1100's 1-Y900</b>	TYPE GEOPHONE <b>ETLE V225</b>	FREQUENCY <b>7.5 Hz</b>
STATION INTERVAL <b>330'</b>		LINE DIR. <b>1 TO 24 E → W</b>		

REMARKS <b>8 ms Sample Rate / 52 sec Record Length</b>	OBSERVER <b>R. Patton / J. Wingo / M. Richey</b>	PARTY MGR. <b>L. DAVIS</b>
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**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc. 16

CLIENT <b>COCORP</b>	AREA <b>KANSAS</b>	STATE <b>KANSAS</b>	COUNTY <b>WASHINGTON</b>	DATE <b>11-14-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road *Rolling Hills</b>	WEATHER <b>clear &amp; windy</b>		LINE NO. <b>1</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	SKIP 1591	1595-1690	18	4		550	OUT	IN	SKIP	SKIP - Due to WATER WELL
2	812 1592	1596-1691	19						508	
3										
4										
5										
6										
7										
8										
9										
10										
11										
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**

**Exploration Services  
Division**  
Geosource Inc. 17

CLIENT <b>COCORP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Washington</b>	DATE <b>11-15-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road + Rolling Hills</b>	WEATHER <b>Partly cloudy + windy</b>	LINE NO. <b>1</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				550	out	IN		Recorder SET AT 1657-1658
2	934/935 EINT	2 - " "								Other seismic crews working in Area
3	936/939 DRD	4 - " "								
4	953/954 Sum TEST	2 - " "								Vib # 16344 Down, body work
5	969/961 NRS TEST	2 - " "								
6	932 Similarity	1 - 32 sec	217	4					30%	
7	813 Wind Strip	1 - 6 sec								
8	814 1593	1632-1727	47			550			50%	E.O.T #550 tape mnts
9	816 1593	1597-1692	12			551			50%	R.O.T #551 #900 10sec All ones #815
10	817 1594	1598-1693	13						50%	WIND STRIP
11	818 1595	1599-1694	14						50%	
12	819 1596	1600-1695	15						50%	
13	820 1597	1601-1696	16						50%	
14	821 1598	1602-1697	17						50%	
15	822 1599	1603-1698	18						50%	
16	823 1600	1604-1699	19						50%	
17	824 1601	1605-1700	20						50%	
18	825 1602	1606-1701	21						50%	
19	826 1603	1607-1702	22						50%	
20	827 1604	1608-1703	23						50%	
21	828 1605	1609-1704	24			551			30%	LAST HALF: Due too House: E.O.T. 551
22	830 1606	1610-1705	25			552			30%	Tape mnts: #552 #900 10sec All ones #829
23	831 1607	1611-1706	26						50%	WIND strip 6sec. stacked on last half.
24	832 1608	1612-1707	27						50%	
25	833 1609	1613-1708	28						50%	

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <b>MDS-10</b>
SWEEP FREQUENCY <b>8 → 32 Hz / 32 sec</b>	SWEEP PATTERN <b>4/63</b>	SWEEPS PER PATTERN <b>8</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN <b>     </b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>4-11005 1-V900</b>	TYPE GEOPHONE <b>ET/EV22B</b>	FREQUENCY <b>7.5 Hz</b>	STATION INTERVAL <b>330'</b>
REMARKS <b>8ms Sample RATE / 52 sec Record Len</b>	OBSERVER <b>R. Patton / J. Wingal / M. Richey</b>	PARTY MGR. <b>R. DAVIS</b>			

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc. 18

CLIENT <b>COCORP</b>	AREA <b>KANSAS</b>	STATE <b>KANSAS</b>	COUNTY <b>Washington</b>	DATE <b>11-15-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road &amp; Rolling Hills</b>	WEATHER <b>partly cloudy + windy</b>		LINE NO. <b>1</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	834 1610	1614-1709	29	4		552	OUT	IN	50%	
2	835 1611	1615-1710	30						50%	
3	836 1612	1616-1711	31						50%	
4	837 1613	1617-1712	32						50%	
5	838 1614	1618-1713	33						50%	
6	839 1615	1619-1714	34						50%	
7	840 1616	1620-1715	35						50%	
8	841 1617	1621-1716	36			552			50%	E.O.T. #552 TAPE MKTS
9										
10										
11										
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**

**Exploration Services  
Division** 19  
Geosource Inc.

CLIENT <b>COCORP</b>	AREA <b>KANSAS</b>	STATE <b>KANSAS</b>	COUNTY <b>WASHINGTON</b>	DATE <b>11-16-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road &amp; Rolling Hills</b>	WEATHER <b>Clear</b>		LINE NO. <b>1</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				553	OUT	IN		BOT * 553 * 900 10 sec All ones
2	<del>934</del> 935 FINT	2 - " "								Recorder set at 1685-1686
3	<del>936</del> 939 D.R.D	4 - " "								Other seismic crews working in area.
4	<del>937</del> 954 Sum Test	2 - " "								
5	960 1/6 N.R.J. TEST	2 - " "								
6	932 Similarity	1 - 32 sec	217	4					30%	vib # 16344 down.
7	842 Wind Strip	1 - 6 sec	9							
8	843 1618	1655-1750	42						50%	offset test
9	844 1618	1622-1717	9						50%	
10	845 1619	1623-1718	10						50%	
11	846 1620	1624-1719	11						50%	
12	847 1621	1625-1720	12						50%	
13	848 1622	1626-1721	13						50%	
14	849 1623	1627-1722	14						50%	
15	850 1624	1628-1723	15						50%	
16	851 1625	1629-1724	16						50%	
17	852 1626	1630-1725	17						50%	
18	853 1627	1631-1726	18			553			50%	E.O.T. * 553 Tape MKTS.
19	855 1628	1632-1727	19			554			50%	B.O.T. * 554 * 900 10sec. All ones * 854 6sec. Wind
20	856 1629	1633-1728	20						50%	Strip.
21	857 Skip	1630	21						50%	Skip due to house.
22	857 1631	1635-1730	22						30%	Stacked last half.
23	858 1632	1636-1731	23						50%	
24	859 1633	1637-1732	24						50%	
25	860 1634	1638-1733	25						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 8	
SWEEP PATTERNS PER SETUP 1		PATCH PATTERN                     x			
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-x 400s 1-x 900	TYPE GEOPHONE ETL EV22B	FREQUENCY 7.5 Hz	STATION INTERVAL 330'
REMARKS 8 ms Sample Rate / 52 sec Record Length			OBSERVER R. Patten / J. wings / M. Richey	PARTY MGR. L. Davis	

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc. 20

CLIENT <b>COCORP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Washington</b>	DATE <b>11/16/81</b>
CREW NO. <b>10834</b>	TERRAIN	WEATHER <b>clear</b>		LINE NO. <b>1</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	861	1635	1639-1734	26	4	554	OUT	IN	50%	Picking up energy from another seismic crew in area.
2	862	1636	1640-1735	27					50%	
3	863	1637	1641-1736	28					50%	
4	864	1638	1642-1737	29					50%	
5	865	1639	1643-1738	30					50%	
6	866	1640	1644-1739	31					50%	
7	867	1641	1645-1740	32		554			50%	E.D.T. #554 Tape MKTS.
8	869	1642	1646-1741	33		555			50%	B.D.T. #555 #900 10sec. All ones. #868 6sec. wind
9	870	1643	1647-1742	34					50%	Strip.
10	871	1644	1648-1743	35					50%	
11	872	1645	1649-1744	36					50%	
12	873	1646	1650-1745	37					50%	
13	874	1647	1651-1746	38					50%	
14	875	1648	1652-1747	39					50%	
15	876	1649	1653-1748	40					50%	
16	877	1650	1654-1749	41					50%	
17	878	1651	1655-1750	42					50%	
18	879	1652	1656-1751	43					50%	
19	880	1653	1657-1752	44					50%	
20	881	1654	1658-1753	45		555			50%	E.D.T. #555 Tape MKTS
21	883	1655	1659-1754	46		556			50%	B.D.T. #556 #900 10sec. All ones. #882 6sec. Wind
22	884	1656	1660-1755	47					50%	Strip.
23	885	1657	1661-1756	48					50%	
24	886	1658	1662-1757	49					50%	
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.** 21

CLIENT <b>COCORP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Washington</b>	DATE <b>11/17/81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road + Rolling Hills</b>	WEATHER <b>Clear</b>	LINE NO. <b>1</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	1-6sec.				556	OUT	IN		Recorder set at 1732-1733
2	<del>934</del> 935 EINT	2- " "								
3	<del>936</del> 939 P.R.D.	4- " "								Other SEISMIC CREWS WORKING IN AREA
4	<del>953</del> 954 Sun test	2- " "								
5	<del>960</del> 961 N.R.T. test	2- " "								Vib #1634 Down, having Body work Done.
6	932 Similarity	1-32 sec	217	4					30%	
7	887 Wind Strip	1-6sec.	3							
8	888 1659	1698-1793	38						50%	OFFSET TEST
9	889 1659	1663-1758	3						50%	
10	890 1660	1664-1759	4						50%	
11	891 1661	1665-1760	5						50%	
12	892 1662	1666-1761	6						50%	
13	893 1663	1667-1762	7						50%	
14	894 1664	1668-1763	8			556			50%	E.D.T. # 556 Tape MKTS.
15	896 1665	1669-1764	9			557			50%	B.D.T. # 557 #900 10 sec. Allones #895 6 sec. Wind
16	SKIP 1666	1670-1765	10						SKIP	Strip. 1666 SKIP. Due to House
17	897 1667	1671-1766	11						30%	STACKED LAST HALF
18	898 1668	1672-1767	12						50%	
19	899 1669	1673-1768	13						50%	
20	001 1670	1674-1769	14						50%	NOTE. STARTED File Number over From #001
21	002 1671	1675-1770	15						50%	Because SERIES 900 Reserved FOR test
22	003 1672	1676-1771	16						50%	ONLY
23	SKIP 1673	1677-1772	17						SKIP	Due to House
24	004 1674	1678-1773	18						50%	LAST HALF. STACKED
25	005 1675	1679-1774	19						50%	

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <b>MDS-10</b>
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SWEEP FREQUENCY <b>8 → 32 Hz / 32 sec.</b>	SWEEP PATTERN <b>4163</b>	SWEEPS PER PATTERN <b>8</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-Y1100'S 1-Y900</b>	TYPE GEOPHONE <b>ETLEV22B</b>	FREQUENCY <b>7.5 Hz.</b>
			STATION INTERVAL <b>330'</b>	LINE DIR. <b>1 TO 24 E → W</b>

REMARKS <b>8 sec. Sample Rate / 52 sec. Record</b>	OBSERVER <b>R. Patton / J. Wang / M. Richey</b>	PARTY MGR. <b>J. Davis</b>
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OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER

Exploration Services  
Division  
Geosource Inc. 22

CLIENT <b>COCORP</b>	AREA <b>KANSAS</b>	STATE <b>KANSAS</b>	COUNTY <b>WASHINGTON</b>
CREW NO. <b>6834</b>		TERRAIN <b>Dirt Road + Rolling Hills</b>	WEATHER <b>clear</b>
			DATE <b>11-17-81</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	006	1676	1680-1775	20	4		557	OUT	IN	50%	
2	007	1677	1681-1776	21						50%	
3	008	1678	1682-1777	22						50%	
4	009	1679	1683-1778	23		557				50%	E.O.T # 557 TAPE MKTS
5	011	1680	1684-1779	24		558				50%	B.O.T # 558 #900 10 sec. All ONES #.010 6sec
6	012	1681	1685-1780	25						50%	WIND strip
7	013	1682	1686-1781	26						50%	
8	014	1683	1687-1782	27						50%	
9	015	1684	1688-1783	28						50%	
10	016	1685	1689-1784	29						50%	
11	017	1686	1690-1785	30						50%	
12	018	1687	1691-1786	31						50%	
13	019	1688	1692-1787	32						50%	
14	020	1689	1693-1788	33						50%	
15	021	1690	1694-1789	34						50%	
16	022	1691	1695-1790	35						50%	
17	023	1692	1696-1791	36		558				50%	E.O.T # 558 TAPE MKTS
18	025	1693	1697-1792	37		559				50%	B.O.T # 559 #900 10sec. All ONES # 024
19	026	1694	1698-1793	38						50%	6 sec WIND strip
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 <i>M. Richey</i>	PARTY MGR.	

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc. 23

CLIENT <b>COCORP</b>	AREA <b>KANSAS</b>	STATE <b>KANSAS</b>	COUNTY <b>Washington</b>
CREW NO. <b>6834</b>		TERRAIN <b>Dirt Road &amp; Rolling Hills</b>	WEATHER <b>Clear to Partly Cloud</b>
			DATE <b>11-18-81</b>

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	F L T E R			REMARKS
							LOCUT	60 ~	AMP	
1	933	Pulse				559	OUT	IN		Recorder SET AT 1769-1770
2	<del>934</del> 935	EINT								
3	<del>936</del> 939	D.R.D								
4	<del>953</del> 954	Sumtest								
5	<del>960</del> 961	N.R.J. test								
6	932	Similarity	1-32sec	217	4				30%	Wib *16344 DOWN IN Shop Body work.
7	027	WIND strip	1-6sec	2						
8	028	1695	1699-1794	2					50%	Stacked last half due to bridge.
9	029	1696	1700-1795	3					50%	
10	030	1697	1701-1796	4					50%	
11	031	1698	1702-1797	5					50%	
12	032	1699	1703-1798	6					50%	
13	033	1700	1704-1799	7					50%	
14	034	1701	1705-1800	8					50%	
15	035	1702	1706-1801	9					50%	Sta. #1803 open due to Driveway.
16	036	1703	1707-1802	10		559			50%	E.D.T. #559 Tape MKTS.
17	038	1704	1708-1803	11		560			50%	B.D.T. #560 #900 10sec. All ones #037 6sec.
18	039	1705	1709-1804	12					50%	Wind Strip
19	040	1706	1710-1805	13					50%	
20	041	1707	1711-1806	14					50%	
21	042	1708	1712-1807	15					50%	
22	043	1709	1713-1808	16					50%	
23	044	1710	1714-1809	17					50%	
24	045	1711	1715-1810	18					50%	
25	046	1712	1716-1811	19					50%	

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <b>MDS-10</b>
SWEEP FREQUENCY <b>8732 Hz / 32 sec</b>	SWEEP PATTERN <b>4163</b>	SWEEPS PER PATTERN <b>8</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>4-71100's 1-7900</b>	TYPE GEOPHONE <b>ETLEV22B</b>	FREQUENCY <b>7.5 Hz</b>	STATION INTERVAL <b>330'</b>
REMARKS <b>8ms. Sample RATE / 52sec Record Len</b>			OBSERVER <b>B. Patton / M. Richey</b>	PARTY MGR. <b>L. DAVIS</b>	

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division  
Geosource Inc.** 24

CLIENT <b>COCORP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Washington</b>	DATE <b>11/18/81</b>
CREW NO. <b>6834</b>	TERRAIN	WEATHER <b>Partly Cloudy</b>		LINE NO. <b>1</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	047	1713	1717-1812	20	4	560	OUT	IN	50%	
2	Skip	1714	1718-1813	21						Skip due to water well.
3	048	1715	1719-1814	22						50% stacked last half.
4	049	1716	1720-1815	23						50%
5	050	1717	1721-1816	24		560				50% E.D.T. #560 Tape MKTS
6	052	1718	1722-1817	25		561				50% B.D.T. #561 #900 10sec. All ones. #051 6sec. Wind.
7	Skip	1719	1723-1818	26						50% Skip strip. due to water well.
8	053	1720	1724-1819	27						50%
9	054	1721	1725-1820	28						50%
10	055	1722	1726-1821	29						50%
11	Skip	1723	1727-1822	30						50% Skip due to house.
12	056	1724	1728-1823	31						50%
13	057	1725	1729-1824	32						50%
14	058	1726	1730-1825	33						50%
15	059	1727	1731-1826	34						50%
16	060	1728	1732-1827	35						50%
17	061	1729	1733-1828	36						50%
18	062	1730	1734-1829	37						50%
19	063	1731	1735-1830	38						50%
20	064	1732	1736-1831	39		561				50% E.D.T. #561 Tape MKTS.
21	065	1733	1737-1832	40		562				50% B.D.T. #562 #900 10sec. All ones. #065 6sec. Wind
22	067	1734	1738-1833	41						50% strip.
23	068	1735	1739-1834	42						50%
24	069	1736	1740-1835	43						50% Sta. #1835 open due to bridge.
25	070	1737	1741-1836	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.	

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc. 25

CLIENT <b>COCORP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Washington</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road to Rolling Hills</b>	WEATHER <b>Clear to Partly Cloudy</b>	DATE <b>11/20/81</b>
			LINE NO. <b>1</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				562	OUT	IN		Recorder SET AT 1813-1814
2	<del>934</del> <del>935</del> FINT	2-11 "								
3	<del>936</del> <del>939</del> D.R.D	4-11 "								Sta # 1803 open due to Driveway.
4	<del>953</del> <del>959</del> SUM test	2-11 "								Sta # 1835 open due to bridge.
5	<del>960</del> <del>961</del> N.R.J test	2-11 "								
6	932 SIMILARITY	1-32 sec	217	5						30%
7	071 WIND STRIP	1-6 sec	1							
8	072 1738	1742-1837	1							50%
9	073 1739	1743-1838	2							50%
10	074 1740	1744-1839	3							50%
11	075 1741	1745-1840	4							50%
12	076 1742	1746-1841	5							50%
13	077 1743	1747-1842	6	4		562				50% E.D.T. #562 Tape MKTS. Vib #14256 down.
14	079 1744	1748-1843	7	5		563				50% B.D.T. #563 #900 10sec. All ones #078 6sec.
15	080 1745	1749-1844	8	4						50% Wind Strip. Vib #17311 down, 14256 back on
16	081 1746	1750-1845	9							50% line.
17	082 1747	1751-1846	10							50%
18	083 1748	1752-1847	11							50%
19	084 1749	1753-1848	12							50%
20	085 1750	1754-1849	13							50%
21	086 1751	1755-1850	14							50%
22	087 1752	1756-1851	15							50%
23	088 1753	1757-1852	16							30%
24	089 1754	1758-1853	17							30%
25	090 1755	1759-1854	18							50%

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <b>MDS-10</b>
SWEEP FREQUENCY <b>8732 Hz / 32 sec</b>	SWEEP PATTERN <b>4163</b>	SWEEPS PER PATTERN <b>8</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-VIBOS 1-900's</b>	TYPE GEOPHONE <b>ETLEV22B</b>	FREQUENCY <b>7.5 Hz</b>	STATION INTERVAL <b>330'</b>
REMARKS <b>8ms Sample Rate / 52 sec Record Len</b>	OBSERVER <b>R. Patton / J. Winger / M. Ruby</b>	PARTY MGR. <b>S. DAVIS</b>			

OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER

Exploration Services  
Division  
Geosource Inc. 26

CLIENT <i>C. Corp.</i>	AREA <i>Kansas</i>	STATE <i>Kansas</i>	COUNTY <i>Washington</i>	DATE <i>11-20-81</i>
CREW NO. <i>6834</i>	TERRAIN <i>Dirt Road + Rolling Hills</i>	WEATHER <i>Clear to Partly Cloudy</i>	LINE NO. <i>1</i>	

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	F L T E R			REMARKS
							LOCUT	60 ~	AMP	
1	091	1756	1760-1855	19	4	563	OUT	IN	50%	E.O.T # 563 TAPE MKTS.
2	093	1757	1761-1856	20	5	564			50%	B.O.T # 564 #900 10sec. All ones # 092 6sec
3	094	1758	1762-1857	21					50%	WIND strip.
4	095	1759	1763-1858	22					50%	
5	096	1760	1764-1859	23					50%	
6	097	1761	1765-1860	24					50%	
7	098	1762	1766-1861	25					50%	
8	SKIP	1763	1767-1862	26					SKIP	Due to house
9	099	1764	1768-1863	27					50%	LAST HALF STACKED
10	100	1765	1769-1864	28					50%	
11	101	1766	1770-1865	29					50%	
12	102	1767	1771-1866	30					50%	
13	103	1768	1772-1867	31					50%	
14	104	1769	1773-1868	32					50%	
15	105	1770	1774-1869	33		564			50%	E.O.T # 564 TAPE MKTS
16	107	1771	1775-1870	34		565			50%	B.O.T # 565 #900 10sec All ones # 106 6sec
17	108	1772	1776-1871	35					30%	WIND strip. STACKED 1st HALF
18	SKIP	1773	1777-1872	36					SKIP	Due to house
19	109	1774	1778-1873	37					50%	STACKED LAST HALF
20	110	1775	1779-1874	38					50%	
21	111	1776	1780-1875	39					50%	
22	112	1777	1781-1876	40					50%	
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 <i>M. Richey</i>	PARTY MGR.	

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division  
Geosource Inc.** 27

CLIENT <b>COCORP</b>	AREA <b>KANSAS</b>	STATE <b>KANSAS</b>	COUNTY <b>WASHINGTON</b>	DATE <b>11-21-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road + Rolling Hills</b>	WEATHER <b>Clear + Windy</b>		LINE NO. <b>1</b>

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER			REMARKS
							LOCUT	60 ~	AMP	
1	933 Pulse	1-6sec				565	OUT	IN		Recorder set At 1850-1851
2	<del>934</del> 935 EINT	2-11"								
3	<del>936</del> 939 D.R.D	4-11"								STA# 1803 OPEN due to Drive way
4	<del>953</del> 954 Sum test	2-11"								STA# 1835 OPEN due to bridge
5	<del>960</del> 961 NRJ test	2-11"								
6	932 SIMILARITY	1-32sec	217	4					30%	Vib # 14256 Down. Body work Being Done.
7	113 WIND STRIP	1-6sec	4						-	
8	114 1778	1782-1877	4	4					50%	
9	115 1779	1783-1878	5						50%	
10	116 1780	1784-1879	6						50%	
11	117 1781	1785-1880	7			565			50%	E.D.T. # 565 Tape MKTS.
12	119 1782	1786-1881	8			566			50%	B.D.T. # 566 #900 10sec. All ones # 118 6sec.
13	120 1783	1787-1882	9						50%	Wind strip
14	123 1784	1788-1883	10						50%	Dumped 1 sweep on tape. File # 122.
15	125 1785	1789-1884	11						70%	File # 121 52 sec. Wind Strip while Road
16	126 1786	1790-1885	12						70%	grader was on line. Dumped 1 sweep on
17	127 1787	1791-1886	13						70%	tape File # 124. VP# 1785
18	128 1788	1792-1887	14						30%	Dumped 1st sweep on tape.
19	129 1788	1792-1887	14						30%	
20	130 1789	1793-1888	15						30%	Stacked 1st half.
21	SKIP 1790	1794-1889	16						SKIP	
22	131 1791	1795-1890	17						90%	
23	132 1792	1796-1891	18			565			90%	E.D.T. # 565 V.P. # 1793 Stacked 1st half.
24	134 1793	1797-1892	19			566			90%	B.D.T. # 566 #900 TO sec. All ones # 133 6sec.
25	SKIP 1794	1798-1893	20						SKIP	Wind strip Skip due to house.

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <b>MDS-10</b>
SWEEP FREQUENCY <b>8 &gt; 32 Hz / 32 sec</b>	SWEEP PATTERN <b>4/63</b>	SWEEPS PER PATTERN <b>8</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-y1100's 1-y900</b>	TYPE GEOPHONE <b>E+LEV22B</b>	FREQUENCY <b>7.5 Hz</b>	STATION INTERVAL <b>330'</b>
REMARKS <b>8ms Sample Rate 1/52 sec Record Len</b>			OBSERVER <b>B. Patton / J. Wingo / M. Kirby</b>	PARTY MGR. <b>L. DAVIS</b>	LINE DIR. 1 TO 24 <b>F=W</b>

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc. 28

CLIENT <i>COCORP</i>	AREA <i>Kansas</i>	STATE <i>Kansas</i>	COUNTY <i>Washington</i>	DATE <i>11/21/81</i>
CREW NO. <i>6834</i>	TERRAIN	WEATHER <i>Clear &amp; Windy</i>		LINE NO. <i>1</i>

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	<i>Skip</i>	<i>1795</i>	<i>1799-1894</i>	<i>2.1</i>	<i>4</i>	<i>*5 sweeps 567</i>	<i>OUT</i>	<i>IN</i>	<i>Skip</i>	<i>-due to house.</i>
2	<i>135</i>	<i>1796</i>	<i>1800-1895</i>	<i>2.2</i>					<i>90%</i>	
3	<i>136</i>	<i>1797</i>	<i>1801-1896</i>	<i>2.3</i>					<i>70%</i>	
4	<i>137</i>	<i>1798</i>	<i>1802-1897</i>	<i>2.4</i>					<i>70%</i>	
5	<i>139</i>	<i>1799</i>	<i>1803-1898</i>	<i>2.5</i>	<i>8</i>				<i>70%</i>	<i>Dumped on 4 sweeps file #138</i>
6	<i>140</i>	<i>1800</i>	<i>1804-1899</i>	<i>2.6</i>	<i>4</i>				<i>70%</i>	<i>" " " " CDP off 1 position.</i>
7	<i>141</i>	<i>1800</i>	<i>1804-1899</i>	<i>2.6</i>	<i>8</i>				<i>70%</i>	
8	<i>142</i>	<i>1801</i>	<i>1805-1900</i>	<i>2.7</i>						<i>52 sec. Wind Strip.</i>
9	<i>143</i>	<i>1801</i>	<i>1805-1900</i>	<i>2.7</i>	<i>4</i>				<i>70%</i>	<i>Dumped on 4 sweeps.</i>
10	<i>144</i>	<i>1801</i>	<i>1805-1900</i>	<i>2.7</i>	<i>8</i>				<i>70%</i>	<i>Dumped on 8 sweeps</i>
11	<i>Skip</i>	<i>1802</i>	<i>1806-1901</i>	<i>2.8</i>						
12	<i>Skip</i>	<i>1803</i>	<i>1807-1902</i>	<i>2.9</i>						
13	<i>145</i>	<i>1804</i>	<i>1808-1903</i>	<i>3.0</i>	<i>4</i>				<i>70%</i>	<i>Stacked last half.</i>
14	<i>146</i>	<i>1804</i>	<i>1808-1903</i>	<i>3.0</i>	<i>8</i>	<i>567</i>			<i>70%</i>	<i>F.O.T. #567 Tape MK75.</i>
15	<i>148</i>	<i>1805</i>	<i>1809-1904</i>	<i>3.1</i>	<i>4</i>	<i>568</i>			<i>70%</i>	<i>B.D.T. #568 #900 10 sec. All ones. #147 6 sec. Wind</i>
16	<i>149</i>	<i>1805</i>	<i>1809-1904</i>	<i>3.1</i>	<i>8</i>				<i>70%</i>	<i>Strip</i>
17	<i>150</i>	<i>1806</i>	<i>1810-1905</i>	<i>3.2</i>	<i>4</i>				<i>70%</i>	
18	<i>151</i>	<i>1806</i>	<i>1810-1905</i>	<i>3.2</i>	<i>8</i>				<i>70%</i>	
19	<i>Skip</i>	<i>1807</i>	<i>1811-1906</i>	<i>3.3</i>					<i>Skip</i>	
20	<i>152</i>	<i>1808</i>	<i>1812-1907</i>	<i>3.4</i>	<i>4</i>				<i>70%</i>	
21	<i>153</i>	<i>1808</i>	<i>1812-1907</i>	<i>3.4</i>	<i>8</i>				<i>70%</i>	
22	<i>154</i>	<i>1809</i>	<i>1813-1908</i>	<i>3.5</i>	<i>4</i>				<i>70%</i>	
23	<i>155</i>	<i>1809</i>	<i>1813-1908</i>	<i>3.5</i>	<i>8</i>				<i>70%</i>	
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. 29

CLIENT <b>COCORP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Washington</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road + Rolling Hills</b>	WEATHER <b>Clear + Windy</b>	DATE <b>11/22/81</b>

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	Missed Sweeps	TAPE PRL. NO.	F I L T E R			REMARKS
							LOCUT	60 ~	AMP	
1	933 Pulse	1-6sec.				568	OUT	TW		Recorder set at 1885-1886
2	<del>934</del> 935 EI NT	2- " "								Sta. # 1835 open due to Bridge.
3	<del>936</del> 939 D.R.D.	4- " "								Jug crew walked Line, replanted loose
4	<del>953</del> 954 Sum test	2- " "								Jugs + checked for proper spacing.
5	<del>960</del> 961 N.R.J. test	2- " "								
6	932 Similarity	1-32sec.	217	4						
7	156 Wind Strip	1-6sec.	1							
8	157 1810	1814-1909	1	4					70%	hard gravel Road
9	158 1811	1815-1910	2						70%	
10	159 1812	1816-1911	3			568			70%	E.O.T. # 568 Tape MKTS.
11	161 1813	1817-1912	4		1	569			70%	B.O.T. # 569 #900 10sec. All ones. #160 6sec.
12	162 1814	1818-1913	5						70%	Wind strip.
13	163 1815	1819-1914	6						70%	
14	164 1816	1820-1915	7						70%	
15	165 1817	1821-1916	8		1				70%	
16	166 1818	1822-1917	9						70%	
17	167 1819	1823-1918	10						70%	soft sand Road.
18	168 1820	1824-1919	11						70%	
19	169 1821	1825-1920	12						70%	
20	170 1822	1826-1921	13						70%	
21	Skip 1823	1827-1922	14						70%	due to house.
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 / 32 sec.</b>	SWEEP PATTERN <b>4/6.3</b>	SWEEPS PER PATTERN <b>8</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-V1100's 1-V900</b>	TYPE GEOPHONE <b>ETLEVR213</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</b>	PARTY MGR. <b>J. Wings / M. Rickey</b>	LINE DIR. 1 TO 24 <b>F → W</b>		

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc. 30

CLIENT <b>COCORP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Washington</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road + Rolling Hills</b>	WEATHER <b>Clear + Windy</b>	DATE <b>11/23/81</b>
LINE NO. <b>1</b>			

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	Missed Sweeps	TAPE RL. NO.	FILTER			REMARKS
							LOCUT	60 ~	AMP	
1	933 Pulse	1-6sec				569	OUT	IN		Recorder Set AT 1897-1898
2	<del>934</del> 935 EINT	2- " "								
3	<del>935</del> 936 D.R.D	4- " "								STA # 1835 open due to Bridge
4	<del>936</del> 937 SUM test	2- " "								
5	<del>937</del> 938 NRS test	2- " "								
6	932 Similarity	1-32sec	217	4					30%	
7	171 WIND Strip	1-6sec	3							E.O.T # 569 Tape MKTS
8	172 1824	1828-1923	3			569			30%	Stacked last half. Vib's shaking on hard Dirt.
9	174 1825	1829-1924	4			570			30%	B.O.T # 570 # 900 10sec. All ones. # 173 6sec. Wind
10	175 1826	1830-1925	5						70%	Strip.
11	176 1827	1831-1926	6						70%	
12	177 1828	1832-1927	7						70%	Wind Picking up.
13	178 1829	1833-1928	8						70%	
14	179 1830	1834-1929	9						70%	
15	180 1831	1835-1930	10						70%	
16	181 1832	1836-1931	11						70%	
17	182 1833	1837-1932	12						70%	
18	183 1834	1838-1933	13						70%	
19	Skip 1835	1839-1934	14						Skip	due to bridge. Vib's making Ground.
20	184 1836	1840-1935	15		1				70%	
21	185 1837	1841-1936	16		1				70%	
22	186 1838	1842-1937	17			570			70%	E.O.T # 570 TAPE MKTS
23	<del>188</del> 1839	1843-1938	18			571			70%	B.O.T # 571 # 900 10sec. All ones. # 187 6sec WIND
24	189 1840	1844-1939	19						70%	Strip
25	190 1841	1845-1940	20						70%	RAW SWEEP DATA

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <b>MDS-10</b>
SWEEP FREQUENCY <b>8-32 Hz / 32 sec</b>	SWEEP PATTERN <b>4/63</b>	SWEEPS PER PATTERN <b>8</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>4-1100's 1-1900</b>	TYPE GEOPHONE <b>ETLEV22B</b>	FREQUENCY <b>7.5 Hz</b>	STATION INTERVAL <b>330'</b>
REMARKS <b>8ms. Sample RATE / 52sec Record Len</b>			OBSERVER <b>R. Patton / Winger</b>	PARTY MGR. <b>M. Ridgway / L. Davis</b>	

OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER

Exploration Services  
Division  
Geosource Inc. 31

CLIENT <b>COCORP</b>	AREA <b>KANSAS</b>	STATE <b>KANSAS</b>	COUNTY <b>Washington</b>	DATE <b>11/23/81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road + Rolling Hills</b>	WEATHER <b>Clear * WINDY</b>	LINE NO. <b>1</b>	

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	MISSED SWEEP	TAPE RL.NO.	F I L T E R			REMARKS
							LOCUT	60 ~	AMP	
1	191	1842	1846-1941	21		571	OUT	IN	70%	
2	192	1843	1847-1942	22					70%	
3	193	1844	1848-1943	23					70%	
4	194	1845	1849-1944	24					70%	
5	195	1846	1850-1945	25					70%	
6	196	1847	1851-1946	26					70%	
7	197	1848	1852-1947	27					70%	
8	198	1849	1853-1948	28					70%	
9	199	1850	1854-1949	29					70%	
10	200	1851	1855-1950	30		571			70%	E.O.T #571 TAPE MKTS
11	202	1852	1856-1951	31		572			70%	B.O.T #572 #900 10sec. All ones #201 6sec.
12	203	1853	1857-1952	32					70%	WIND STRIP
13	204	1854	1858-1953	33	1				70%	
14	205	1855	1859-1954	34					70%	
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
REMARKS			OBSERVER	PARTY MGR.	

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc. 32

CLIENT <b>COCORP</b>	AREA <b>KANSAS</b>	STATE <b>KANSAS</b>	COUNTY <b>WASHINGTON</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road &amp; Rolling Hills</b>	WEATHER <b>PARTLY cloud &amp; WINDY</b>	DATE <b>11-24-81</b>
LINE NO. <b>1</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				572	OUT	IN		Recorder set AT 1919-1920
2	<del>934</del> 935 EINT	2-11 "								
3	<del>936</del> 939 D.R.D	4- " "								
4	<del>953</del> 954 SUM test	2- " "								
5	<del>960</del> 961 NRJ test	2- " "								
6	932 Similarity	1-32 sec	217	4					30%	Vib #142.56 in shop, body repair.
7	206 WIND strip	1-6 sec	13							
8	207 1856	1860-1955	13						70%	vib's shaking on hard dirt.
9	208 1857	1861-1956	14						70%	
10	209 1858	1862-1957	15						70%	
11	210 1859	1863-1958	16						70%	
12	211 1860	1864-1959	17						70%	Sta. #1959 open due to bridge
13	212 1861	1865-1960	18						70%	
14	213 1862	1866-1961	19			5			70%	
15	214 1863	1867-1962	20			572			70%	E.O.T #572 Tape MKTS
16	216 1864	1868-1963	21			573			70%	B.D.T #573 #900 10sec. All ones #215 6sec. Wind
17	217 1865	1869-1964	22						70%	Strip.
18	218 1866	1870-1965	23						70%	
19	219 1867	1871-1966	24						70%	
20	220 1868	1872-1967	25						70%	
21	221 1869	1873-1968	26						70%	
22	222 1870	1874-1969	27						30%	
23	Skip 1871	1875-1970	28						Skip	due to farm house + water wells.
24	Skip 1872	1876-1971	29						Skip	
25	Skip 1873	1877-1972	30						Skip	

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <b>MDS-10</b>
SWEEP FREQUENCY <b>8-32 Hz / 32 sec</b>	SWEEP PATTERN <b>4163</b>	SWEEPS PER PATTERN <b>8</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN <b>     </b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>4-Y1100's 1-Y900</b>	TYPE GEOPHONE <b>ET/LEV22B</b>	FREQUENCY <b>7.5 Hz</b>	STATION INTERVAL <b>330</b>
REMARKS <b>8ms. Sample RATE / 52 sec Record Len</b>			OBSERVER <b>R. Patton / J. Wingo / M. Richey</b>	PARTY MGR. <b>L. DAVIS</b>	LINE DIR. 1 TO 24 <b>E → W</b>

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc. **33**

CLIENT <b>COCORP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Washington</b>	DATE <b>11/24/81</b>
CREW NO. <b>68.34</b>	TERRAIN	WEATHER <b>partly Cloudy + Windy</b>		LINE NO. <b>1</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	223	1874	1878-1973	31	4	573	OUT	IN	70%	
2	224	1875	1879-1974	32					70%	
3	225	1876	1880-1975	33					30%	
4	Skip	1877	1881-1976	34					Skip	
5	226	1878	1882-1977	35					30%	
6	227	1879	1883-1978	36					70%	
7	228	1880	1884-1979	37		573			70%	E.D.T. #573 Tape MKTS.
8	230	1881	1885-1980	38		574			70%	B.D.T. #574 #900 10sec. All ones #229 6sec Wind
9	Skip	1882	1886-1981	39					Skip	Skip.
10	Skip	1883	1887-1982	40					Skip	Stas #1882-1887 Skipped due to high pressure
11	Skip	1884	1888-1983						Skip	gas pipe lines + Farm house.
12	Skip	1885	1889-1984						Skip	
13	Skip	1886	1890-1985						Skip	
14	Skip	1887	1891-1986						Skip	
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	
REMARKS		OBSERVER				PARTY MGR.					



**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc. 35

CLIENT <b>COCORP</b>	AREA <b>KANSAS</b>	STATE <b>KANSAS</b>	COUNTY <b>WASHINGTON</b>	DATE <b>12-5-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road &amp; Rolling Hills</b>	WEATHER <b>Partly cloud</b>		LINE NO. <b>1</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	1-6sec				575	OUT	IN		Recorder set at 1988-1989
2	<del>934</del> 935 EINT	2- " "								Sta # 1959-1991 open due to bridge.
3	<del>936</del> 939 D.R.D	4- " "								Electric Fences along line.
4	<del>953</del> 954 SUM test	2- " "								
5	<del>960</del> 961 NRT test	2- " "								
6	932 Similarity	1-32sec	217	4						30%
7	250 Wind strip	1-52sec	2							
8	251 1906	1910-2005	2							70%
9	252 1907	1911-2006	3			575				70% E.D.T #575 Tape MKTS.
10	254 1908	1912-2007	4			576				70% B.D.T #576 #900 10sec. All ones #253.52sec.
11	255 1909	1913-2008	5							70% Wind Strip
12	256 1910	1914-2009	6							70%
13	257 1911	1915-2010	7							70%
14	258 1912	1916-2011	8							70%
15	259 1913	1917-2012	9							30%
16	Skip 1914	1918-2013	10							Skip due to house.
17	260 1915	1919-2014	11							30% stacked last half.
18	261 1916	1920-2015	12							70%
19	262 1917	1921-2016	13							70%
20	263 1918	1922-2017	14							70%
21	264 1919	1923-2018	15							70%
22	265 1920	1924-2019	16			576				70% E.D.T #576 Tape MKTS.
23	267 1921	1925-2020	17			577				70% B.D.T #577 #900 10sec. All ones. #266 52sec.
24	268 1922	1926-2021	18							70% Wind Strip.
25	269 1923	1927-2022	19							70%

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <b>MDS-10</b>
SWEEP FREQUENCY <b>8-32Hz/32sec</b>	SWEEP PATTERN <b>4163</b>	SWEEPS PER PATTERN <b>8</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN <b>     </b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>4-y1100's 1-1900</b>	TYPE GEOPHONE <b>E+LEV22B</b>	FREQUENCY <b>7.5 Hz</b>	STATION INTERVAL <b>330'</b>
REMARKS <b>52sec Record / 8ms Sample Rate</b>		OBSERVER <b>R. Patton / J. Wings / M. Bickney</b>		PARTY MGR. <b>L. DAVIS</b>	

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc. 36

CLIENT <b>COCORP</b>	AREA <b>KANSAS</b>	STATE <b>KANSAS</b>	COUNTY <b>Washington</b>	DATE <b>12-5-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road * Rolling Hills</b>	WEATHER <b>partly cloud</b>		LINE NO. <b>1</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	270	1924	1928-2023	20		577	OUT	IN	70%	
2	271	1925	1929-2024	21					70%	
3	272	1926	1930-2025	22					70%	
4	273	1927	1931-2026	23					70%	
5	274	1928	1932-2027	24					70%	
6	SKIP	1929	1933-2028	25					SKIP	1929 to 1939 SKIP Due to bridge out and very MUDDY conditions of Road
7	SKIP	1930	1934-2029	26					SKIP	
8	SKIP	1931	1935-2030	27					SKIP	
9	SKIP	1932	1936-2031	28					SKIP	
10	SKIP	1933	1937-2032	29					SKIP	
11	SKIP	1934	1938-2033	30					SKIP	
12	SKIP	1935	1939-2034	31					SKIP	
13	SKIP	1936	1940-2035	32					SKIP	
14	SKIP	1937	1941-2036	33					SKIP	
15	SKIP	1938	1942-2037	34					SKIP	
16	275	1939	1943-2038	35					70%	LAST HALF STACKED
17	SKIP	1940	1944-2039	36					SKIP	
18	SKIP	1941	1945-2040	37					SKIP	
19	276	1942	1946-2041	38					70%	STACKED LAST HALF
20	277	1943	1947-2042	39					70%	
21	278	1944	1948-2043	40		577			70%	E.O.T #577 TAPE MKTS
22	280	1945	1949-2044	41		578			70%	B.O.T #578 #900 10sec Allowance #279 52sec
23	281	1946	1950-2045	42					70%	WIND Strip
24	282	1947	1951-2046	43					70%	
25	283	1948	1952-2047	44					70%	

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 <i>B. Patton / J. Wingo / M. Pichey</i>	PARTY MGR.	

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc. 37

CLIENT <b>COCORP</b>	AREA	STATE <b>KANSAS</b>	COUNTY	DATE <b>12/5/81</b>
CREW NO. <b>6834</b>	TERRAIN	WEATHER		LINE NO. <b>1</b>

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	FILTER			REMARKS
							LOCUT	60~	AMP	
1	SKIP 1949	1953-2048 45				578	OUT	IN	SKIP	Due water well
2	SKIP 1950	1954-2049 46							SKIP	" " "
3										
4										
5										
6										
7										
8										
9										
10										
11										
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	
REMARKS		OBSERVER				PARTY MGR.					

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division  
Geosource Inc.** 28

CLIENT <b>COCORP</b>	AREA <b>KANSAS</b>	STATE <b>KANSAS</b>	COUNTY <b>WASHINGTON</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road + Rolling Hills</b>	WEATHER <b>partly cloud</b>	DATE <b>12-6-81</b>
LINE NO. <b>1</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				578	OUT	IN		Recorder set AT 2026-2027
2	<del>934</del> 935 FINT	2-11"								Sta # 1959 + 1991 open due to bridge.
3	<del>936</del> 939 D.R.D.	4-11"								Electric Fences along line
4	<del>953</del> 954 Sum test	2-11"								
5	<del>960</del> 961 N.R.J test	2-11"								
6	932 Similarity	1-32sec	217	4					30%	vib # 14256 down Bad LVDT Rod.
7	284 Wind strip	1-52sec	1							
8	285 1951	1955-2050	1						70%	stacked last half.
9	286 1952	1956-2051	2						70%	
10	287 1953	1957-2052	3						70%	
11	288 1954	1958-2053	4						70%	
12	289 1955	1959-2054	5			578			70%	E.O.T. #578 Tape MKTS.
13	291 1956	1960-2055	6			579			70%	B.O.T. #579 #900 10sec. All ones #290 52sec. Wind
14	292 1957	1961-2056	7						70%	Strip.
15	293 1958	1962-2057	8						70%	
16	284 1959	1963-2058	9						70%	VP # 1959 has File # 284
17	295 1960	1964-2059	10						30%	Stacked 1st half. 1 Raw Sweep monitor.
18	Skip 1961	1965-2060	11						70%	due to house
19	296 1962	1966-2061	12						70%	
20	297 1963	1967-2062	13						70%	
21	298 1964	1968-2063	14						70%	
22	299 1965	1969-2064	15						70%	
23	300 1966	1970-2065	16						70%	
24	301 1967	1971-2066	17						70%	
25	302 1968	1972-2069	18			579			70%	E.O.T. #579 Tape MKTS. 1 Raw Sweep monitor

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <b>MDS-10</b>
SWEEP FREQUENCY <b>8-32Hz / 32sec</b>	SWEEP PATTERN <b>4163</b>	SWEEPS PER PATTERN <b>8</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN <b>     </b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>4-y1100's 1-y900</b>	TYPE GEOPHONE <b>ETLEV22B</b>	FREQUENCY <b>7.5 Hz</b>	STATION INTERVAL <b>330'</b>
REMARKS <b>8ms Sample Rate / 52sec Record Len.</b>			OBSERVER <b>B. Patten / J. Wingo / M. Richey</b>	PARTY MGR. <b>L. Davis</b>	LINE DIR. <b>E-W</b>

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc. 39

CLIENT <i>COCORP</i>	AREA <i>Test</i>	STATE <i>Kansas</i>	COUNTY	DATE <i>12/8/81</i>
CREW NO. <i>6834</i>	TERRAIN <i>Dirt Road</i>	WEATHER <i>Partly Cloudy</i>		LINE NO. <i>1</i>

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	304	1973-2068	19	4		580	OUT	TW	70%	B.O.T. # 580 #900 10 sec. All ones # 303
2	305	1974-2069	20						70%	52 sec. Wind Strip.
3	306	1975-2070	21						70%	Changing Frequency on Vib's to 16-40Hz.
4	307	1976-2071	22						70%	8ms. Sample Rate, Alias Filter set at 62.5
5	308	1977-2072	23						70%	F.O.T. # 580 tape MKTS.
6										
7										
8										
9										
10										
11										
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 <i>16-40Hz / 3250</i>		SWEEP PATTERN	SWEEPS PER PATTERN <i>8</i>	SWEEP PATTERNS PER SETUP <i>1</i>	PATCH PATTERN
GEOPHONES PER PATCH <i>24</i>	NO. OF RECORDING PATCHES <i>96</i>	TYPE VIBRATOR <i>4-V1100's 1-1900</i>	TYPE GEOPHONE	FREQUENCY <i>7.5Hz.</i>	STATION INTERVAL
REMARKS <i>8ms Sample Rate 152sec. Record</i>			OBSERVER <i>R. Patten J. Wings</i>	PARTY MGR.	

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division  
Geosource Inc.** 40

CLIENT <b>COCORP</b>	AREA <b>KANSAS</b>	STATE <b>KANSAS</b>	COUNTY <b>WASHINGTON</b>	DATE <b>12-7-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road + Rolling Hills</b>	WEATHER <b>clear</b>		LINE NO. <b>1</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			Mixed Sweep	581	OUT	IN		Recorder Set At 2049-2050
2	934/935 FINT	2-11"								STA*1991 open due to bridge
3	936/937 D.R.D	4-11"								Electric Fences along Line
4	953/954 SUMtest	2-11"								
5	960/961 N.R.J. test	2-11"								
6	932 SIMILARITY	1-32sec	217	4					30%	Vib # 14256 Down, Bad LVDT.
7	309 WIND strip	1-52sec	1							
8	310 1974	1978-2073	1						70%	B.O.T. #900 10sec All ones.
9	311 1975	1979-2074	2						70%	
10	312 1976	1980-2075	3						70%	
11	313 1977	1981-2076	4						70%	
12	314 1978	1982-2077	5						70%	
13	315 1979	1983-2078	6						70%	
14	316 1980	1984-2079	7	1					70%	STACKED LAST HALF
15	317 1981	1985-2080	8						70%	
16	318 1982	1986-2081	9						70%	
17	319 1983	1987-2082	10						70%	
18	320 1984	1988-2083	11			581			70%	E.O.T. #581 TAPE MKTS
19	322 1985	1989-2084	12			582			70%	B.O.T. #582 #900 10sec All ones #321 52
20	323 1986	1990-2085	13						70%	Sec WIND strip
21	324 1987	1991-2086	14						70%	
22	325 1988	1992-2087	15						70%	
23	326 1989	1993-2088	16						70%	
24	327 1990	1994-2089	17						70%	took MONITOR SWEEP NO.1
25	SKIP 1991	1995-2090	18						SKIP	

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <b>MDS-10</b>
SWEEP FREQUENCY <b>8→32Hz/32sec</b>	SWEEP PATTERN <b>4163</b>	SWEEPS PER PATTERN <b>8</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-V1100's 1-V900</b>	TYPE GEOPHONE <b>E+LEV22R</b>	FREQUENCY <b>7.5 Hz</b>	STATION INTERVAL <b>330'</b>
REMARKS <b>8ms Sample RATE/52 sec Record Length</b>		OBSERVER <b>B. Patton/Wing</b>		PARTY MGR. <b>M. Riskey</b>	

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc. 41

CLIENT <b>COCORP</b>	AREA <b>KANSAS</b>	STATE <b>KANSAS</b>	COUNTY <b>Washington Xcloud</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road + ROLLING Hills</b>	WEATHER <b>clear</b>	DATE <b>12-7-81</b>
			LINE NO. <b>1</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	SKIP 1992	1996-2091	19		missed sweep	582	OUT	IN	SKIP	1991 to 1994 SKIP Due to bridge out
2	SKIP 1993	1997-2092	20						SKIP	
3	SKIP 1994	1998-2093	21						SKIP	
4	328 1995	1999-2094	22						70%	
5	329 1996	2000-2095	23						70%	
6	330 1997	2001-2096	24						70%	
7	331 1998	2002-2097	25						70%	
8	332 1999	2003-2098	26			582			70%	E.O.T. #582 TAPE MKTS
9	334 2000	2004-2099	27			583			70%	B.O.T. #583. 900 10sec All ones #333
10	335 2001	2005-2100	28						70%	52sec WIND strip
11	336 2002	2006-2101	29						70%	
12	336 2003	2007-2102	30	1					70%	VP# 2003 has file #336, Tape Transport wrote wrong
13	337 2004	2008-2103	31						70%	File number.
14	338 2005	2009-2104	32						70%	
15	SKIP 2006	2010-2105	33						SKIP	
16	339 2007	2011-2106	34						70%	STACKED LAST HALF
17	340 2008	2012-2107	35							
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		
REMARKS		OBSERVER <b>R. Patton / J. Wingo / M. Richey</b>				PARTY MGR. <b>R. DAVIS</b>						

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc. 42

CLIENT <b>COCORP</b>	AREA <b>KANSAS</b>	STATE <b>KANSAS</b>	COUNTY <b>Washington-cloud</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road Rolling Hills</b>	WEATHER <b>partly cloud</b>	DATE <b>12-8-81</b>
LINE NO. <b>1</b>			

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	Missed Sweeps	TAPE RL. NO.	F I L T E R			REMARKS
							LOCUT	60~	AMP	
1	933 Pulse	1-6 sec				583	OUT	IN		Recorder SET AT 2081-2082
2	<del>934</del> FINT	2- " "								
3	<del>936</del> D.R.D	4- " "								Electric Fences Along line
4	<del>953</del> SUM test	2- " "								
5	<del>960</del> N.R.T test	2- " "								#14256 Vib Down, BAD LVDt.
6	932 SIMILARITY	1-32 sec	217	4					30%	
7	341 WIND STRIP	1-52 sec	4							
8	342 2009	2013-2108	4						70%	Stacked Last half. 85 sweeps.
9	343 2010	2014-2109	5		1	583			70%	E.O.T #583 Tape MKTS.
10	345 2011	2015-2110	6			584			30%	B.O.T #584 #900 10 sec. All ones #344 52 sec.
11	346 2012	2016-2111	7						70%	Wind Strip.
12	347 2013	2017-2112	8		1				70%	
13	348 2014	2018-2113	9						70%	4 sweeps
14	Skip 2015	2019-2114	10						Skip	due to house.
15	Skip 2016	2020-2115	11						Skip	due to water well.
16	349 2017	2021-2116	12						70%	
17	350 2018	2022-2117	13						70%	
18	351 2019	2023-2118	14						70%	
19	352 2020	2024-2119	15						70%	
20	353 2021	2025-2120	16						70%	
21	354 2022	2026-2121	17						70%	
22	355 2023	2027-2122	18						70%	
23	356 2024	2028-2123	19			584			70%	EOT #584 Tape MKTS
24	Skip 2025	2029-2124	20						Skip	Due to Barn & water well
25	Skip 2026	2030-2125	21						Skip	" " " " "

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <b>MDS-10</b>
SWEEP FREQUENCY <b>8-32Hz/32sec</b>	SWEEP PATTERN <b>4163</b>	SWEEPS PER PATTERN <b>8</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN <b>     </b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>4-V100's 1-V100</b>	TYPE GEOPHONE <b>E+LEV22B</b>	FREQUENCY <b>7.5HZ</b>	STATION INTERVAL <b>330'</b>
REMARKS <b>8ms Sample RATE/52 sec Record Len</b>	OBSERVER <b>B. Patton</b>	PARTY MGR. <b>A. Winger</b>	<b>M. Bickney</b>		

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc. 43

CLIENT <b>COCORP</b>	AREA <b>Kansas</b>	STATE <b>Kansas</b>	COUNTY <b>Washington + Cloud</b>	DATE <b>12-8-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road + Rolling Hills</b>	WEATHER <b>Clear</b>		LINE NO. <b>1</b>

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	Missed sweep	TAPE RL. NO.	F I L T E R			REMARKS
							LOCUT	60 ~	AMP	
1	358	2027	2031-2126	22	4	585	OUT	IN	70%	ROT *585 *900 10sec All ones *357 52 sec Wind strip
2	359	2028	2032-2127	23					70%	4 Sweeps From 2014 - 2029
3	360	2029	2033-2128	24					70%	4 sweeps.
4	361	2030	2034-2129	25					70%	16 Sweeps.
5	362	2031	2035-2130	26	3				70%	
6	363	2032	2036-2131	27					70%	
7	364	2033	2037-2132	28					70%	
8	365	2034	2038-2133	29					70%	
9	366	2035	2039-2134	30					70%	Sweep #1 MONITOR 52sec
10	367	2036	2040-2135	31					70%	
11	368	2037	2041-2136	32					70%	
12	369	2038	2042-2137	33		585			70%	F.O.T #585 MKTS
13	371	2039	2043-2138	34		586			70%	B.O.T #586 #900 10sec All ones #370
14	372	2040	2044-2139	35					70%	52sec WIND Strip
15	373	2041	2045-2140	36					70%	STA # 2138 OPEN Due to Bridge
16	374	2042	2046-2141	37					70%	
17	375	2043	2047-2142	38					70%	#1 Sweep MONITOR 52sec
18	376	2044	2048-2143	39					70%	
19	377	2045	2049-2144	40					70%	
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 MGR.			

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc. 44

CLIENT <b>COCORP</b>	AREA <b>KANSAS</b>	STATE <b>KANSAS</b>	COUNTY <b>Washington &amp; cloud</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road + Rolling Hills</b>	WEATHER <b>Clear</b>	DATE <b>12-9-81</b>
LINE NO. <b>1</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	1-6sec				586	OUT	IN		Recorder set at 2.120-2.121
2	<del>934</del> FINT	2- " "								
3	<del>936</del> D.R.D	4- " "								Electric fences along line
4	<del>953</del> Sum test	2- " "								
5	<del>960</del> N.R.J. test	2- " "								Vib #14256 Down, Bad LVDT
6	932 SIMILARITY	1-32sec	217	4					30%	
7	378 WIND strip	1-52sec	2							
8	379 2046	2050-2145	2						50%	VP # 2046-2057 will be shaken at 8 sec
9	380 2047	2051-2146	3						50%	sweep + 30 sec. Record.
10	381 2048	2052-2147	4						50%	
11	382 2049	2053-2148	5			586			50%	E.D.T. #586 Tape MKTS.
12	384 2050	2054-2149	6			587			50%	B.D.T. #587 #900 10 sec. All ones. #383 52 sec. Wind
13	385 2051	2055-2150	7						50%	strip.
14	386 2052	2056-2151	8						50%	
15	387 2053	2057-2152	9						50%	
16	Skip 2054	2058-2153	10						Skip	due to water well.
17	388 2055	2059-2154	11						50%	
18	389 2056	2060-2155	12						50%	
19	390 2057	2061-2156	13						50%	
20	391 2058	2062-2157	14						50%	VP # 2058-2068 will be shaken at 16 sec. sweep
21	392 2059	2063-2158	15						50%	40 sec. Record.
22	393 2060	2064-2159	16						50%	
23	394 2061	2065-2160	17						50%	
24	395 2062	2066-2161	18						50%	
25	396 2063	2067-2162	19						50%	

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <b>MDS-10</b>
SWEEP FREQUENCY <b>8-32Hz/32sec</b>	SWEEP PATTERN <b>4163</b>	SWEEPS PER PATTERN <b>8</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN <b>                       </b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>4-VII005 1-V900</b>	TYPE GEOPHONE <b>ETLEV22B</b>	FREQUENCY <b>7.5 Hz</b>	STATION INTERVAL <b>330'</b>
REMARKS <b>8ms Sample RATE / 5.2 sec Record Len</b>	OBSERVER <b>R. Patton / J. Wingo / M. Richey</b>	PARTY MGR. <b>L. DAVIS</b>	LINE DIR. <b>E → W</b>		

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc. 45

CLIENT <i>COCORP</i>	AREA <i>Kansas</i>	STATE <i>Kansas</i>	COUNTY <i>cloud</i>	DATE <i>12/9/81</i>
CREW NO. <i>6834</i>	TERRAIN	WEATHER <i>Cloudy &amp; Windy</i>		LINE NO. <i>1</i>

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	397	2064	2068-2163	20	4	1	587	OUT	IN	50%	
2	398	2065	2069-2164	21						50%	
3	399	2066	2070-2165	22						50%	
4	400	2067	2071-2166	23						50%	
5	401	2068	2072-2167	24			587			50%	E.O.T # 587 Tape MKTS.
6	403	2069	2073-2168	25			588			50%	B.D.T. # 588 #900 10sec. All ones. # 402 52sec.
7	404	2070	2074-2169	26						50%	Wind Strip.
8	405	2071	2075-2170	27						50%	VP# 2069 vib's back to 32 sec. Sweep, 52 sec. Record
9	406	2072	2076-2171	28						50%	stacked First half.
10	407	2073	2077-2172	29						50%	vib's making go around, due to 3 ton bridge.
11	408	2074	2078-2173	30						50%	
12	409	2075	2079-2174	31						50%	
13	Skip	2076	2080-2175	32						50%	
14	410	2077	2081-2176	33						50%	
15	411	2078	2082-2177	34						50%	
16	412	2079	2083-2178	35						50%	
17	413	2080	2084-2179	36						50%	
18	414	2081	2085-2180	37			588			50%	E.O.T # 588 Tape MKTS.
19	416	2082	2086-2181	38			589			50%	B.D.T. # 589 #900 10sec. All ones. # 415 52sec. Wind
20	417	2083	2087-2182	39						50%	strip.
21	418	2084	2088-2183	40						50%	
22	419	2085	2089-2184	41						50%	
23	420	2086	2090-2185	42						50%	
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. 46

CLIENT <b>COCORP</b>	AREA <b>KANSAS</b>	STATE <b>KANSAS</b>	COUNTY <b>Cloud</b>	DATE <b>12-10-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road + Rolling Hills</b>	WEATHER <b>partly clouded - windy</b>		LINE NO. <b>1</b>

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	Missed Sweeps	TAPE RL. NO.	F I L T E R			REMARKS
							LOCUT	60 ~	AMP	
1	933 Pulse	1-6sec				589	OUT	IN		Recorder set At 2160-2161
2	<del>934</del> <del>935</del> FINT	2- " "								Sta. # 2138 open due to bridge
3	<del>936</del> <del>939</del> D.R.D	4- " "								Electric Fences Along line
4	<del>953</del> <del>954</del> SUM test	2- " "								
5	<del>960</del> <del>961</del> N.R.J. test	2- " "								
6	932 SIMILARITY	1-32sec	217	5						30%
7	421 WIND strip	1-52sec	3							
8	422 2087	2091-2186	3	5	III					50% VP# 2087-2098 shaken at 32 sec. Sweep, 52 sec.
9	423 2088	2092-2187	4	4						50% Record, & Sum. 4
10	424 2089	2093-2188	5							50%
11	425 2090	2094-2189	6							50%
12	426 2091	2095-2190	7			589				50% E.D.I # 589 Tape MKTS.
13	428 2092	2096-2191	8	5	I	590				50% B.D.T # 590 #900 10sec. All ones #427 52sec.
14	429 2093	2097-2192	9							50% Wind Strip.
15	430 2094	2098-2193	10	4						50%
16	431 2095	2099-2194	11							50%
17	432 2096	2100-2195	12	5						50%
18	433 2097	2101-2196	13							50%
19	434 2098	2102-2197	14							50%
20	435 2099	2103-2198	15							50% VP# 2099-2110 shaken at 16 sec. Sweep, 40 sec.
21	436 2100	2104-2199	16							50% Record, & Sum 8
22	437 2101	2105-2200	17							50%
23	438 2102	2106-2201	18							50%
24	439 2103	2107-2202	19							50%
25	440 2104	2108-2203	20							50%

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <b>MDS-10</b>
SWEEP FREQUENCY <b>8732Hz/32sec</b>	SWEEP PATTERN <b>4163</b>	SWEEPS PER PATTERN <b>8</b>	SWEEP PATTERNS PER SETUP <b>1</b>	PATCH PATTERN <b>     </b>	
GEOPHONES PER PATCH <b>24</b>	NO. OF RECORDING PATCHES <b>96</b>	TYPE VIBRATOR <b>4-Y1100's 1-Y900</b>	TYPE GEOPHONE	FREQUENCY <b>7.5 HZ</b>	STATION INTERVAL <b>330'</b>
REMARKS <b>8ms Sample RATE / 52sec Recorder Len</b>		OBSERVER <b>R. Patton / W. ... / M. Richay</b>		PARTY MGR. <b>L. DAVIS</b>	

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc. 47

CLIENT <b>COCORP</b>	AREA <b>KANSAS</b>	STATE <b>KANSAS</b>	COUNTY <b>cloud</b>	DATE <b>12-10-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road + Rolling Hills</b>	WEATHER <b>cloud</b>	LINE NO. <b>1</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	441	2105	2109-2204	21		590	OUT	IN	50%	E.O.T #590 TAPE MKTS
2	443	2106	2110-2205	22		591			50%	B.O.T #591 #900 10sec All ONES #442
3	444	2107	2111-2206	23					50%	52sec. WIND STRIP STA #2106 52sec
4	445	2108	2112-2207	24					50%	Record Len
5	446	2109	2113-2208	25					50%	
6	447	2110	2114-2209	26					50%	
7	448	2111	2115-2210	27					50%	VP #2111-2125 skaken At 8sec Sweep,
8	449	2112	2116-2211	28					50%	30sec Record + SUM 16
9	450	2113	2117-2212	29					50%	
10	451	2114	2118-2213	30					50%	
11	452	2115	2119-2214	31					50%	
12	453	2116	2120-2215	32					50%	
13	SKIP	2117	2121-2216	33					SKIP	sta# 2117-2118 SKIP Due to WATER well
14	SKIP	2118	2122-2217	34					SKIP	
15	454	2119	2123-2218	35					50%	
16	455	2120	2124-2219	36					50%	
17	456	2121	2125-2220	37					50%	
18	457	2122	2126-2221	38					50%	
19	458	2123	2127-2222	39					50%	
20	459	2124	2128-2223	40					50%	
21	460	2125	2129-2224	41		591			50%	E.O.T #591 TAPE MKTS
22	462	2126	2130-2225	42		592			50%	B.O.T #592 #900 10sec All ONES #461 52sec
23	463	2127	2131-2226	43					50%	WIND STRIP
24	464	2128	2132-2227	44					50%	
25	465	2129	2133-2228	45					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.				

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc. 48

CLIENT <i>C Corp</i>	AREA <i>Kansas</i>	STATE <i>Kansas</i>	COUNTY <i>Cloud</i>	DATE <i>12-10-81</i>
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CREW NO. <i>6834</i>	TERRAIN <i>Dirt Road Rolling Hills</i>	WEATHER <i>Partly Cloudy - Windy</i>	LINE NO. <i>1</i>
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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	466 2130	2134-2229	46			592	OUT	IN	50%	
2	467 2131	2135-2230	47						50%	
3										
4										
5										
6										
7										
8										
9										
10										
11										
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	
REMARKS		OBSERVER				PARTY MGR.					

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc. 49

CLIENT <b>COCORP</b>	AREA <b>KANSAS</b>	STATE <b>KANSAS</b>	COUNTY <b>cloud</b>	DATE <b>12-11-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road &amp; Rolling Hills</b>	WEATHER <b>cloudy</b>		LINE NO. <b>1</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 - 6sec				592	OUT	IN		Recorder Set AT 2208-2209
2	934 FINT	2 - " "								
3	936 D.R.D	9 - " "								STA # 2138 open due to bridge
4	953 SUM test	2 - " "								Electric Fences Along line
5	960 N.R.S test	2 - " "								
6	932 SIMILARITY	1-32 sec	217	4					30%	Vib # 14256 Down, Replace PUMP
7	468 WIND strip	1-52sec	2							
8	SKIP 2132	2136-2231								SKIP Due to house
9	SKIP 2133	2137-2232								SKIP Due to pipeline.
10	469 2134	2138-2233	2						50%	
11	470 2135	2139-2234	3						50%	
12	471 2136	2140-2235	4			592			50%	E.O.T #592 TAPE MKTS
13	SKIP 2137	2141-2236	5			593			50%	SKIP B.O.T #593 900 10sec ALL ONES #472
14	473 2138	2142-2237	6						50%	52sec WIND strip: STACKED LAST HALF
15	474 2139	2143-2238	7						50%	
16	475 2140	2144-2239	8						50%	
17	SKIP 2141	2145-2240	9							SKIP Due to WATER WELL
18	476 2142	2146-2241	10						50%	STACKED LAST HALF
19	477 2143	2147-2242	11						50%	STACKED LAST HALF
20	478 2144	2148-2243	12						50%	
21	479 2145	2149-2244	13						50%	
22	480 2146	2150-2245	14						50%	
23	481 2147	2151-2246	15						50%	
24	482 2148	2152-2247	16						50%	
25	483 2149	2153-2248	17						50%	

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <b>MDS-10</b>
SWEEP FREQUENCY <b>8 &gt; 32 Hz / 1/32 sec</b>	SWEEP PATTERN <b>4/63</b>	SWEEPS PER PATTERN <b>8</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-V100's 1-V500</b>	TYPE GEOPHONE <b>FTLEV22B</b>	FREQUENCY <b>7.5 Hz</b>	STATION INTERVAL <b>330'</b>
REMARKS <b>8ms SAMPLE RATE / 52sec Record Len</b>		OBSERVER <b>B. Patton / M. Richey</b>		PARTY MGR. <b>L. Davis</b>	

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc. 50

CLIENT <b>COCORP</b>	AREA <b>KANSAS</b>	STATE <b>KANSAS</b>	COUNTY <b>cloud</b>	DATE <b>12-11-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road &amp; Rolling Hills</b>	WEATHER <b>cloudy</b>		LINE NO. <b>1</b>

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	Missed Sweep	TAPE RL. NO.	F L T E R			REMARKS
							LOCUT	60 ~	AMP	
1	484	2150	2154-2249	18	4	593	OUT	IN	50%	E.O.T #593 TAPE MKTS
2	486	2151	2155-2250	19		594			50%	B.O.T #594 900 10sec All ONES #485 52sec
3	487	2152	2156-2251	20					50%	WIND STRIP.
4	SKIP	2153	2157-2252	21					SKIP	
5	488	2154	2158-2253	22					50%	STACKED LAST HALF
6	489	2155	2159-2254	23					50%	
7	SKIP	2156	2160-2255	24					SKIP	Due to PIPELINE
8	490	2157	2161-2256	25					50%	STACKED LAST HALF
9	491	2158	2162-2257	26					50%	
10	492	2159	2163-2258	27					50%	
11	493	2160	2164-2259	28					50%	
12	494	2161	2165-2260	29					50%	
13	495	2162	2166-2261	30					50%	
14	496	2163	2167-2262	31					50%	
15	497	2164	2168-2263	32		594			50%	E.O.T #594 TAPE MKTS
16	499	2165	2169-2264	33		595			50%	B.O.T #595 900 10sec All ones #498, 52sec.
17	500	2166	2170-2265	34					50%	WIND STRIP
18	501	2167	2171-2266	35					50%	
19	502	2168	2172-2267	36					50%	
20	503	2169	2173-2268	37					50%	
21	504	2170	2174-2269	38					50%	
22	505	2171	2175-2270	39					50%	
23	506	2172	2176-2271	40					50%	
24	507	2173	2177-2272	41					50%	
25	508	2174	2178-2273	42					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 <b>R. Patton / M. Pichey</b>			PARTY MGR.			

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc. **51**

CLIENT <i>COCORP</i>	AREA <i>KANSAS</i>	STATE <i>KANSAS</i>	COUNTY <i>CLOUD</i>	DATE <i>12-11-81</i>
CREW NO. <i>6834</i>	TERRAIN <i>DIRT ROAD + Rolling Hills</i>	WEATHER <i>Cloudy</i>		LINE NO. <i>1</i>

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER			REMARKS
							LOCUT	60~	AMP	
1	2175	2179-2274	43				OUT	IN	50%	
2	2176	2180-2275	44			595				E.O.T. #595 TAPE MKTS
3	2177	2181-2276	45			596				B.O.T. #596 900 10sec ALL ONES #511 52sec WIND Strip
4										
5										
6										
7										
8										
9										
10										
11										
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	
REMARKS		OBSERVER <i>R. Patton/M. Richey</i>				PARTY MGR.		LINE DIR. 1 TO 24 <i>E-W</i>			

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division**  
Geosource Inc. 52

CLIENT <b>COCORP</b>	AREA <b>KANSAS</b>	STATE <b>KANSAS</b>	COUNTY <b>cloud</b>	DATE <b>12-12-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road &amp; Rolling Hills</b>	WEATHER <b>Cloudy</b>	LINE NO. <b>1</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				596	OUT	IN		Recorder SET AT 2253-2254
2	934/935 FIN T	2- " "								
3	936/939 D.R.D	4- " "								STA # 2183 OPEN Due to bridge
4	953/954 SIM test	2- " "								
5	950/961 N.R.J test	2- " "								
6	932 SIMILARITY	1-32sec	217	4					30%	Vib # 14256 Down, Replacing Pump
7	513 WIND strip	1-52sec								
8	514 2178	2182-2277	1						50%	
9	515 2179	2183-2278	2						50%	
10	516 2180	2184-2279	3						50%	STA # 2180 cross HI-WAY 81
11	517 2181	2185-2280	4						50%	
12	518 2182	2186-2281	5						50%	
13	519 2183	2187-2282	6						50%	
14	520 2184	2188-2283	7						50%	
15	521 2185	2189-2284	8			596			50%	E.O.T # 596 TAPE MKTS
16	523 2186	2190-2285	9			597			50%	B.O.T # 597 900 10sec ALL ONES # 522, 52sec
17	SKIP 2187	2191-2286	10							SKIP WIND STRIP
18	SKIP 2188	2192-2287	11							SKIP
19	SKIP 2189	2193-2288	12							SKIPPED due to Cross County (no Permit for Vehicles)
20	SKIP 2190	2194-2289	13							SKIP
21	SKIP 2191	2195-2290	14							SKIP
22	524 2192	2196-2291	15						50%	
23	525 2193	2197-2292	16						50%	1 STACKED 1st HAIF
24	SKIP 2194	2198-2293	17							SKIP
25	526 2195	2199-2294	18						50%	STACKED LAST HAIF

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <b>MD5-10</b>
SWEEP FREQUENCY <b>8-32 Hz / 32sec</b>	SWEEP PATTERN <b>4/63</b>	SWEEPS PER PATTERN <b>8</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-VI100's 1-V900</b>	TYPE GEOPHONE <b>ET/EX22R</b>	FREQUENCY <b>7.5 HZ</b>	STATION INTERVAL <b>330'</b>
REMARKS <b>8ms Sample Rate / 52sec Record</b>		OBSERVER <b>R. PATTON / M. Richey</b>		PARTY MGR. <b>L. DAVIS</b>	

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division  
Geosource Inc.** 53

CLIENT <b>COCORP</b>	AREA <b>KANSAS</b>	STATE <b>KANSAS</b>	COUNTY <b>cloud</b>	DATE <b>12-12-81</b>
CREW NO. <b>6834</b>	TERRAIN <b>Dirt Road &amp; ROLLING HILL</b>	WEATHER <b>cloudy *</b>		LINE NO. <b>1</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	527	2196	2200-2295	19		597	OUT	IN	50%	
2	528	2197	2201-2296	20					50%	
3	529	2198	2202-2297	21					50%	
4	530	2199	2203-2298	22					50%	
5	531	2200	2204-2299	23					50%	STACKED First HALF
6	SKIP	2201	2205-2300	24					SKIP	Due to WATER WELL
7	532	2202	2206-2301	25					50%	
8	533	2203	2207-2302	26					50%	
9	534	2204	2208-2303	27		597			50%	E.O.T #597 TAPE MKTS
10	536	2205	2209-2304	28		598			50%	B.O.T #598 900 10sec ALL ONES #535, 52sec
11	537	2206	2210-2305	29					30%	WIND STRIP; STACKED First HALF.
12	SKIP	2207	2211-2306	30					SKIP	Due to HOUSE
13	538	2208	2212-2307	31					30%	
14	SKIP	2209	2213-2308	32					SKIP	Due to WATER WELL
15	539	2210	2214-2309	33					30%	STACKED LAST HALF
16	540	2211	2215-2310	34					50%	
17	541	2212	2216-2311	35					50%	
18	542	2213	2217-2312	36					50%	
19	543	2214	2218-2313	37					50%	
20	544	2215	2219-2314	38					50%	
21	545	2216	2220-2315	39					50%	
22	546	2217	2221-2316	40					50%	
23	547	2218	2222-2317	41		598			50%	E.O.T #598 TAPE MKTS
24	549	2219	2223-2318	42		599			50%	B.O.T #599 900 10sec ALL ONES #548 52sec
25	550	2220	2224-2319	43					50%	WIND STRIP

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 <b>R. PATTON/M. Richey</b>		PARTY MGR.		

LINE DIR. 1 TO 24 **E>W**

**OBSERVER'S REPORT  
DIGITAL VIBROSEIS RECORDER**

**Exploration Services  
Division  
Geosource Inc.** 54

CLIENT COCORP AREA KANSAS STATE KANSAS COUNTY cloud DATE 12-12-81  
 CREW NO. 6834 TERRAIN Dirt Road & Bolling Hills WEATHER cloudy LINE NO. 1

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	FILTER			REMARKS
							LOCUT	60~	AMP	
1	551	2221	2225-2320	44		599	OUT	IN	50%	
2	552	2222	2226-2321	45					50%	
3	553	2223	2227-2322	46					50%	
4	554	2224	2228-2323	47					50%	
5	555	2225	2229-2324	48					50%	
6	556	2226	2230-2325	49					50%	Due to WATER WELL #2227 SKIP
7	SKIP	2227	2231-2326	38					SKIP	Recorder moved up 12 STA AT 2265-2266
8	557	2228	2232-2327	39					50%	STACKED LAST HALF
9	558	2229	2233-2328	40					50%	
10	559	2230	2234-2329	41					50%	
11	560	2231	2235-2330	42		599			50%	E.O.T # 599 TAPE MKTS
12	562	2232	2236-2331	43		600			50%	B.O.T # 600 900 10sec ALL ONES #561, 52sec
13										WIND Strip. E.O.T # 600 TAPE MKTS E.O.L #1
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. \_\_\_\_\_