

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

CLIENT COCORP	AREA KANSAS LINE #2	STATE KA	COUNTY Atchison	DATE 11-8-79
CREW NO. 6834	TERRAIN Hilly	WEATHER Overcast Cold	LINE NO. 2	

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				682	Out	IN	B.O.T. #682. FILE #900-10 SEC. ALL ONE'S RECORDER SET UP BETWEEN STA'S 71472 STARTING LINE #2. WILL BE PUSHING LINE STA'S 1-83 IN JEFFERSON COUNTY, REST OF LINE #2 IN ATCHISON COUNTY. LAYING OUT LINE #2
2 934	EINT	2 - " "							
3 935	DRD	4 - " "							
4 936	SUM TEST	2 - " "							
5 937	NR TEST	2 - " "							
6 938	Similarity	2 - 22 SEC		5				50%	
7 001	Wind Strip	1 - 6 SEC							CHECKING LINE
8 002	16	1-12 X 20-103	2					70%	1-96 CORRELATION MADE ON FILE #002
9 003	18	3-14 X 22-105	4					"	
10 004	20	5-16 X 24-107	6					"	
11 005	22	7-18 X 26-109	8					"	
12 006	24	9-20 X 28-111	10					"	
13 007	26	11-22 X 30-113	12			682		30%	E.O.T. #682
14 008	28	13-24 X 32-115	14			683		"	B.O.T. #683. FILE #900-10 SEC. ALL ONE'S
15 009	30	15-26 X 34-117	16					70%	
16 010	32	17-28 X 36-119	18					"	
17 011	34	19-30 X 38-121	20					"	
18 012	36	21-32 X 40-123	22					"	
19 013	38	23-34 X 42-125	24					"	
20									
21									FINISHED FOR THE DAY
22									
23									
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25									

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8-40 Hz / 22 SEC.	SWEEP PATTERN 660' SURFACE ARRAY	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN 2222 X 2222 	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 14-41100'S 1-4900	TYPE GEOPHONE ETL-EV228	FREQUENCY 25 Hz.	STATION INTERVAL 220'
REMARKS 4ms. SAMPLE RATE 42 SEC. RECORD LENGTH	OBSERVER SIMMONS		PARTY MOR.		

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

CLIENT **COCORP** AREA **KANISAS LINE # 2** STATE **KA.** COUNTY **JEFFERSON & ALABAMA** DATE **11-9-79**
CREW NO. **6834** TERRAIN **Hilly** WEATHER **CLEAR - COLD - WINDY** LINE NO. **2**

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP CORR.	TAPE RL. NO.	F LOCUT	L 60~	R AMP CORR.	REMARKS
1	PULSE	1 - 6 Sec				683	Out	IN		RECORDER SET UP BETWEEN STA'S 86-87
2	EINT	2 - " "								WIND PICKING UP.
3	DRD	4 - " "								
4	SUM TEST	2 - " "								
5	NRT TEST	2 - " "								
6	Similarity	1 - 22 SEC		5		683				50% E.O.I. #683
7	Wind Scrip	1 - 6 SEC				684				CHECKING WIND BOT. #684. FILE #900-10 SEC ALL ONE'S
8	40	25-36X44-127	1		1-96					70% 1-96 CORRELATION MADE ON FILE #015
9	42	27-38X46-129	3		25-48					"
10	44	29-40X48-131	5		49-72					"
11	46	31-42X50-133	7		73-96					"
12	48	33-44X52-135	9		1-24					"
13	50	35-46X54-137	11		25-48					"
14	52	37-48X56-139	13		49-72					"
15	54	39-50X58-141	15		23-96	684				30% VP #54 STACKED ON FIRST HALF DUE TO HOUSE. E.O.I. #684
16	SKIP	41-52X60-143	17		1-24	685				BOT. #685. FILE #900-10 SEC. ALL ONE'S
17	58	43-54X62-145	19		25-48					30% VP #56 SKIPPED DUE TO HOUSE. VP #58 STACKED ON LAST HALF
18	60	45-56X64-147	21		49-72					30% VP #60 STACKED ON FIRST HALF.
19	SKIP	47-58X66-149	23		73-96					VP #62 SKIPPED DUE TO HOUSE
20	64	49-60X68-151	25		1-24					30% VP #64 STACKED ON LAST HALF.
21	66	51-62X70-153	27		25-48					70% RAW SWEEP MADE ON FILE #026
22	68	53-64X72-155	29		49-72					"
23	70	55-66X74-157	31		73-96					"
24	72	57-68X76-159	33		1-24					" FILE #029 OFF 2 POSITIONS ON CDP. WAS ON POS. 3 SHOULD HAVE BEEN POS. 35
25	74	59-70X78-161	35		25-48	685				" E.O.I. #685

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: **||||2222X2221111**

GEOPHONES PER PATCH: **24** NO. OF RECORDING PATCHES: **96** TYPE VIBRATOR: **4-41100'S 1-4900** TYPE GEOPHONE: **ETL-EV22B** FREQUENCY: **25 Hz.** STATION INTERVAL: **220'** LINE DIR. 1 TO 24: **S. → N.**

REMARKS: **4ms SAMPLE RATE 42 SEC. RECORD LENGTH** OBSERVER: **SIMMONS** PARTY MGR.: _____

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

Exploration Services
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Geosource Inc.

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CLIENT COCORP	AREA KANSAS LINE #2	STATE KA.	COUNTY JEFFERSON - Atchison	DATE 11-9-79
CREW NO. 6834	TERRAIN Hilly	WEATHER CLEAR - COLD - WINDY	LINE NO. 2	

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDR SW.	NO VIB	TAPES	FILTER			REMARKS
						LOG CUT	60 ~	70 ~	
1	76	61-72X80-163	37	5	49-76	Out.	TN	70%	301. *68% FILE #90-1090. ALL ONE'S. FILE #031 - Wind Strip.
2	78	63-74X82-165	39	↑	73-96	↑	↑	"	
3	80	65-76X84-167	41	↓	1-24	↓	↓	"	2 Raw Sweeps (1-48 49-96) for Quality Control. Made on file #034
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5									FINISHED FOR THE DAY
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TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8-40 Hz / 22.9 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 4-4100'S 1-4100	TYPE GEOPHONE ETL-EV22B	FREQUENCY 25 Hz	STATION INTERVAL 220'
REMARKS 4ms. SAMPLE RATE 42.960 RECORD LENGTH.	OBSERVER SIMMONS		PARTY MOR.		

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical
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CLIENT COCORP	AREA KANSAS LINE #2	STATE KA.	COUNTY Atchison	DATE 11-10-79
CREW NO. 6834	TERRAIN Hilly	WEATHER CLEAR - COLD	LINE NO. 2	

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER			REMARKS
							LOCUT	60 ~	30 ~	
1	118	103-114x122-205	37	5		688	Out	TN	30%	VP# 118 Stacked on first half.
2	120	105-116x124-207	39	↑		688	↑	↑	30%	E.O.L. #688
3	122	107-118x126-209	41	↓		689	↓	↓	70%	Bot #689. FILE #900-10SEC. ALL ONES
4	124	109-120x128-211	43	↓		↓	↓	↓	"	
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FINISHED FOR THE DAY

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 2225222 	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 14-91100'S 1-W-200	TYPE GEOPHONE ETL - EV22B	FREQUENCY 25 Hz.	STATION INTERVAL 220'
REMARKS 4ms SAMPLE RATE	4/2 SEC. RECORD LENGTH	OBSERVER SIMMONS	PARTY MGR.	LINE DIR. 1 TO 24 S. → N.	

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

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CLIENT **COCORP** AREA **KANSAS LINE #2** STATE **KA** COUNTY **Atchison** DATE **11-13-79**
CREW NO. **6834** TERRAIN **Hilly** WEATHER **CLEAR & COLD & WET** LINE NO. **2**

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER		REMARKS
							LOG CUT	80~	
1	PULSE	1 - 6 SEC.				689	Out	IN	RECORDER SET UP BETWEEN STA'S 182-183
2	EINI	2 - " "							STA #176 OPEN DUE TO BRIDGE.
3	DRD	4 - " "							LINE VERY WET DUE TO RAIN ON 11-12-79
4	SUM EST	2 - " "							
5	NRT TEST	2 - " "							
6	Simihapiti	1 - 22 SEC.		5					50%
7	Wind Strip	1 - 6 SEC.							70% CHECKING WINE
8	126	111-122X130-213	1						70% 1-96 CORRELATION MADE ON FILE #059
9	128	113-124X132-215	3						"
10	130	115-126X134-217	5						"
11	132	117-128X136-219	7			689			30% E.O.T. #689. U.P. #132 STACKED ON FIRST HALF DUE TO HOUSE
12	SKIP	119-130X138-221	9			690			U.P. #134 SKIPPED DUE TO HOUSE
13	136	121-132X140-223	11						30% U.P. #136 STACKED ON LAST HALF DUE TO HOUSE
14	138	123-134X142-225	13						70%
15	140	125-136X144-227	15						" HI POWER LINE RUNNING PARALLEL TO LINE ON
16	142	127-138X146-229	17						" STA'S 244 TO 252 STRONG GROUND CURRENT.
17	144	129-140X148-231	19						"
18	146	131-142X150-233	21						30%
19	SKIP	133-144X152-235	23						U.P. #148 SKIPPED DUE TO HOUSE
20	150	135-146X154-237	25						30% U.P. #150 STACKED ON FIRST HALF
21	152	137-148X156-239	27			690			E.O.T. #690
22	SKIP	139-150X158-241	29						
23	SKIP	141-152X160-243	31						U.P.'S 154-158 SKIPPED DUE TO TOWN OF WARKINBURG.
24	SKIP	143-154X162-245	33						
25	160	145-156X164-247	35			691			30% B.O.T. #691 FILE #000-10 SEC ALLONES. FILE #001 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: **4-9100'S 1-4900** TYPE GEOPHONE: **ETK-LV22B** FREQUENCY: **25 Hz** STATION INTERVAL: **220'** LINE DIR. TO 24: **S. → N.**
 REMARKS: **4ms SAMPLE RATE 4/2 SEC. RECORD LENGTH** OBSERVER: **SIMMONS** PARTY MOR.: _____

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical
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CLIENT COCORP	AREA KANISAS LINE #2	STATE KA.	COUNTY Atchison	DATE 11-13-79
CREW NO. 6834	TERRAIN Hilly	WEATHER CLEAR-COLD & WET	LINE NO. 2	

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER			REMARKS
							LOG CUT	60 ~	AMP DRIVE	
1	162	147-158x166-249	37	5		691	Out	IN	30%	3 Raw Sweeps (For Dr. Kabinian) 2E-40 4-16 For Quality Control) MADE ON FILE #073
2	164	149-160x168-251	39	↑		↑	↑	↑	70%	
3	166	21-162x170-253	41	↑		↑	↑	↑		1-96 CORRELATION MADE ON FILE #075
4	168	153-164x172-255	43	↓		↓	↓	↓		
5										
6										FINISHED FOR THE DAY
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TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8-40 Hz / 2.2 SEC	SWEEP PATTERN 660 SOURCE ARRAY	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN 222 222 	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 14-7000'S 1-4900	TYPE GEOPHONE ETH-EV22B	FREQUENCY 25 Hz	STATION INTERVAL 220'
REMARKS 4ms SAMPLE RATE 4.2 SEC. RECORD LENGTH.	OBSERVER SIMMONS		PARTY MOR.		

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical
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CLIENT COCORP	AREA KANSAS LINE #2	STATE KA	COUNTY Atchison	DATE 11-14-79
CREW NO. 6834	TERRAIN Hilly	WEATHER CLEAR-COLD-DAMP		LINE NO. 2

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	F I L T E R			REMARKS
							LOCUT	80 ~	50 ~	
1 933	PULSE	1 - 6 SEC				691	Out	IN		RECORDER SET UP BETWEEN STA'S 226 & 227
2 934	EINT	2 - " "								STA #176 OPEN DUE TO BRIDGE. ELECTRIC FENCE
3 935	DRD	4 - " "								RUNNING FROM STA. 244 TO 252, STRONG GROUND
4 936	SUM TEST	2 - " "								CURRENT.
5 937	NRJ TEST	2 - " "								
6 938	SIMILARITY	1 - 22 SEC		5					50%	
7 077	WIND STRIP	1 - 6 SEC				691				CHECKING WIND. E.O.T. #691
8 078	170	155-166x174-257	1			692			70%	BOI. #692. FILE #900-10 SEC. ALL ONE'S. 1-9% CORRELATION MADE ON FILE #078
9 079	172	157-168x176-259	3						"	
10 080	174	159-170x178-261	5						"	
11 081	176	161-172x180-263	7						30%	V.P. #176 STACKED ON FIRST HALF DUE TO HOUSE
12 SKIP	178	163-174x182-265	9							V.P. 178 SKIPPED DUE TO HOUSE.
13 082	180	165-176x184-267	11						30%	
14 083	182	167-178x186-269	13						30%	
15 SKIP	184	169-180x188-271	15							V.P. #184 SKIPPED DUE TO CEMETERY
16 084	186	171-182x190-273	17						30%	V.P. #186 STACKED ON LAST HALF DUE TO HOUSE
17 085	188	173-184x192-275	19			692			30%	E.O.T. #692
18 086	190	175-186x194-277	21			693			70%	BOI. #693. FILE #900-10 SEC. ALL ONE'S.
19 087	192	177-188x196-279	23						"	
20 088	194	179-190x198-281	25						"	
21 089	196	181-192x200-283	27						"	RAW SWEEP MADE ON FILE #089
22 090	198	183-194x202-285	29						"	
23 091	200	185-196x204-287	31						"	
24 092	202	187-198x206-289	33						"	E.O.T. #693
25 093	204	189-200x208-291	35			693			"	RAW SWEEP MADE ON FILE #093

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS-10
SWEEP FREQUENCY 8-40 Hz / 22 SEC	SWEEP PATTERN 660' SOURCE ARRAY	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN 2222222222 	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 14-9100'S 1-4900	TYPE GEOPHONE ETL-EV22	FREQUENCY 25 Hz	STATION INTERVAL 220'
REMARKS 4ms SAMPLE RATE 42 SEC. RECORD LENGTH	OBSERVER SIMMONS		PARTY MOR. S. → N.		

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical
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CLIENT COCORP	AREA KANSAS LINE #2	STATE KA	COUNTY Atchison	DATE 11-14-79
CREW NO. 6834	TERRAIN Hilly	WEATHER CLEAR-COLD-DAMP	LINE NO. 2	

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	F I L T E R			REMARKS
							LOCUT	60 ~	30 ~	
1	206	191-202x210-293	37	5		694	Out	TN	70%	BOI #694. FILE #900-10 SEC ALLOWE'S. FILE #094-WIND STOP 1-96 CORRELATION MADE ON FILE #096 FILE #098 OFF 2 CDP POSITIONS (WAS ON CDP POS #41 SHOULD HAVE BEEN ON CDP POS #43) FINISHED FOR THE DAY
2	208	193-204x212-295	39	↑		↑	↑	↑		
3	210	195-206x214-297	41	↑		↑	↑	↑		
4	212	197-208x216-299	43	↓		↓	↓	↓		
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TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8-40 Hz / 22 SEC	SWEEP PATTERN 220' SURGE ARRAY	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN 222x222 	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-9100'S 1-900	TYPE GEOPHONE ETH-EV22B	FREQUENCY 25 Hz	STATION INTERVAL 220'
REMARKS 4ms SAMPLE RATE 4.2 SEC. RECORD LENGTH	OBSERVER SIMMONS		PARTY MOR. S → N		

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical
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Geosource Inc. 10

CLIENT COCORP	AREA KANSAS LINE #2	STATE KA	COUNTY Atchison	DATE 11-15-79
CREW NO. 6834	TERRAIN Hilly	WEATHER CLEAR & COOL & Windy	LINE NO. 2	

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER			REMARKS
							LOG CUT	60 ~	STOP	
1	PULSE	1 - 6 SEC.				694	Out	IN		RECORDER SET UP BETWEEN STA. 220 & 221
2	EINI	2 - " "								
3	DRD	4 - " "								
4	SUM TEST	2 - " "								
5	NRT TEST	2 - " "								
6	932 Similarity	1 - 22 SEC.		5					50%	
7	099 WIND STRIP	1 - 6 SEC.								CHECKING LINE
8	100 214	199-210x218-301	1			694			70%	1-96 CORRELATION MADE ON FILE #100. E.O.I. #694
9	101 216	201-212x220-303	3			695			"	B.O.I. #695. FILE #900-10 SEC. ALL ONE'S
10	102 218	203-214x222-305	5						"	
11	103 220	205-216x224-307	7						"	
12	104 222	207-218x226-309	9						"	
13	105 224	209-220x228-311	11						"	
14	106 226	211-222x230-313	13						"	
15	107 228	213-224x232-315	15						"	
16	108 230	215-226x234-317	17			695			"	E.O.I. #695
17	109 232	217-228x236-319	19			696			"	B.O.I. #696. FILE #900-10 SEC. ALL ONE'S
18	110 234	219-230x238-321	21						"	
19	111 236	221-232x240-323	23						"	
20	112 238	223-234x242-325	25						"	
21	113 240	225-236x244-327	27						30%	DUE TO WELL
22	114 242	227-238x246-329	29						30%	UP #242 STACKED ON FIRST HALF DUE TO WELL
23	115 244	229-240x248-331	31						70%	UP #244 " " LAST " " " "
24	116 246	231-242x250-333	33			696			"	E.O.I. #696. RAW SWEEP MADE ON FILE #116
25	118 248	233-244x252-335	35			697			"	B.O.I. #697. FILE #900-10 SEC. ALL ONE'S. FILE #117 WIND STRIP

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
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SWEEP FREQUENCY 8-40 Hz / 22 SEC.	SWEEP PATTERN 660 SOURCE PARR	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN 222x222
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-9100'S 1-920	TYPE GEOPHONE ETL - EV223	FREQUENCY 25 Hz.
REMARKS 4ms SAMPLE RATE 4/2 SEC. RECORD LENGTH		OBSERVER SIMMONS	PARTY MGR.	
STATION INTERVAL 220'		LINE DIR. 1 TO 24 S. → N.		

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DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical
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Geosource Inc.

CLIENT COCORP	AREA KANSAS LINE #2	STATE KA.	COUNTY Atchison	DATE 11-15-17
CREW NO. 6834	TERRAIN Hilly	WEATHER CLEAR-COOL-WINDY	LINE NO. 2	

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	250	295-246X254-337	37	5		697	Out	IN	20%	
2	252	237-248X256-339	39	↑		↑	↑	↑	11	
3	254	239-250X258-341	41	↑		↑	↑	↑	11	
4	256	241-252X260-343	43	↑		↑	↑	↑	11	RECORDER MOVE
5	258	243-254X262-345	32	↑		↑	↑	↑	30%	RECORDER SET UP BETWEEN STA'S 283 & 284
6	260	245-256X264-347	34	↓		↓	↓	↓	30%	UP # 260 STACKED ON LAST HALF DUE TO HOUSE
7	262	247-258X266-349	36	↓		697	↓	↓		EOL # 697
8										
9										
10										FINISHED FOR THE DAY
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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 2222X222 	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-91100'S 1-4900	TYPE GEOPHONE ETL-EV22B	FREQUENCY 25 Hz.	STATION INTERVAL 220'
REMARKS 4ms SAMPLE RATE 4 1/2 SEC RECORD LENGTH	OBSERVER SIMMONS		PARTY MGR.		

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical
Division
Geosource Inc. 12

CLIENT **COCORP** AREA **KANSAS LINE #2** STATE **KA.** COUNTY **Atchison** DATE **11-16-79**
CREW NO. **6834** TERRAIN **Hilly** WEATHER **CLEAR & COOL** LINE NO. **2**

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER		REMARKS
							LOG CUT	60 ~	
1	PLUSE	1 - 6 SEC.				698	Out	TN	301. #698 FILE #900-10 SEC. ALL ONE'S RECORDER SET UP BETWEEN STA'S 300 & 301 SHORT SETUP DUE TO CROSS COUNTRY BETWEEN STA'S 302-329. THERE ARE APPARENTLY 2 OTHER SEISMIC CREWS IN GENERAL AREA. STARTED Picking up slight ENERGY SOURCE FROM NORTH CHECKING WINE 70% 1-96 CORRELATION MADE ON FILE #128 CAN HEAR OTHER CREW'S ON RAISED. note:
2	FINI	2 - " "							
3	DRD	4 - " "							
4	SUM TEST	2 - " "							
5	VRT TEST	2 - " "							
6	Similarity	1 - 2.2 SEC.		5					
7	Wind Strip	1 - 6 SEC.							
8	264	249-260x268-351	21						
9	266	251-262x270-353	23						
10	268	253-264x272-355	25						
11	270	255-266x274-357	27						
12	272	257-268x276-359	29						
13	274	259-270x278-361	31			698			
14	276	261-272x280-363	33			699			
15	278	263-274x282-365	35						
16	280	265-276x284-367	37						
17	282	267-278x286-369	39						
18	284	269-280x288-371	41						
19	SKIP	271-282x290-373							
20	288	273-284x292-375	16						
21	290	275-286x294-377	18						
22	292	277-288x296-379	20			699			
23	293	278-289x297-380	21			700			
24	294	279-290x298-381	22						
25	295	280-291x299-382	23						

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: **|||||222x222|||||**

GEOPHONES PER PATCH: **24** NO. OF RECORDING PATCHES: **96** TYPE VIBRATOR: **4-01100'S 1-4900** TYPE GEOPHONE: **ETH-EV22B** FREQUENCY: **2.5 Hz.** STATION INTERVAL: **220'** LINE DIR. 1 TO 24: **S → N**

REMARKS: **4 hrs SAMPLE RATE 4/2 SEC RECORD LENGTH** OBSERVER: **SIMMONS** PARTY NO.: _____

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical
Division
Geosource Inc. 13

CLIENT COCORP	AREA KANSAS LINE #2	STATE Ka.	COUNTY Atchison	DATE 11-16-79
CREW NO. 6834	TERRAIN Hills	WEATHER CLEAR & COOL		LINE NO. 2

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER			REMARKS
							LOCUT	80 ~	50 ~	
1	296	281-292X300-385	24	↓		700	Opt	IN	70%	VIB #1266? Down With SHAKER LEGS (Bolts gone in ONE SIDE, OTHER SIDE CRACKED)
2	297	282-283X301-384	25	↑					11	
3	298	283-284X302-385	26						11	
4	299	284-285X303-386	27						30%	
5	300	285-286X304-387	28			700			30%	E.O.T. #700
6	301	286-287X305-388	29	↓		701	↓	↓		B.O.T. *701. FILE #900-10SEC. ALL ONE'S
7										
8										
9										FINISHED FOR THE DAY
10										
11										
12										
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TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8-40HZ / 22 SEC		SWEEP PATTERN 660' SOURCE ARRAY		SWEEPS PER PATTERN 16	
SWEEP PATTERNS PER SETUP 1		PATCH PATTERN 2222X222 			
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 14-41100'S	TYPE GEOPHONE ETH-EV22B	FREQUENCY 25 Hz	STATION INTERVAL 220'
REMARKS 4ms SAMPLE RATE 4.2 SEC RECORD LENGTH			OBSERVER SIMMONS	PARTY MGR.	
			LINE DIR. S → N		

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical
Division
Geosource Inc. 14

CLIENT	COCORP	AREA	KANSAS LINE #2	STATE	KA	COUNTY	Atchison	DATE	11-17-79
CREW NO.	6834	TERRAIN	Hilly	WEATHER	CLEAR & Cool	LINE NO.	2		

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER			REMARKS
							LOG CUT	80 ~	50 ~	
1	PULSE	1 - 6 SEC.				701	Out	ITV		RECORDER SETUP BETWEEN STA.'S 386 & 387
2	EINI	2 - " "								Highway #9 Crosses Line BETWEEN STA.'S
3	DRD	4 - " "								
4	SUM TEST	2 - " "								
5	DIR TEST	2 - " "								
6	932 Similarity	1 - 22 SEC.		5					50%	Checking Line STA.'S 302-32 SKIPPED DUE TO CROSS COUNTRY (WALK ONLY)
7	150 Wind Strip	1 - 6 SEC.								
8	Skip 302	287-298X306-389								
9	" 304	289-300X308-391								
10	" 306	291-302X310-393								
11	" 308	293-304X312-395								
12	" 310	295-306X314-397								
13	" 312	297-308X316-399								
14	" 314	299-310X318-401								
15	" 316	301-312X320-403								
16	" 318	303-314X322-405								
17	" 320	305-316X324-407								
18	" 322	307-318X326-409								
19	" 324	309-320X328-411								
20	" 326	311-322X330-413								
21	Skip 328	313-324X332-415								
22	151 330	315-326X334-417	1						70%	1-96 CORRELATION MADE ON FILE #151
23	332	317-328X336-419								
24	152 332	317-328X336-419	3						"	
25	334	319-330X338-421								

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 14-4110'S 1-6900	
REMARKS 4ms SAMPLE RATE 4/2 SEC RECORD LENGTH		TYPE GEOPHONE ETH-EV22 B		FREQUENCY 2.5 Hz	
OBSERVER SIMMONS			STATION INTERVAL 220'		
PARTY MGR.			LINE DIR. S. → N.		

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical
Division
Geosource Inc. 15

CLIENT COCORP	AREA KANSAS LINE #2	STATE KA	COUNTY Atchison	DATE 11-17-79
CREW NO. 6834	TERRAIN Hilly	WEATHER Clear & Cool	LINE NO. 2	

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER			REMARKS
							LOCUT	80 ~	AMP GAIN	
1	334	319-330X338-421	5	5		701	Out	IN	70%	
2	336	321-332X340-423	7	↑		↑	↑	↑	"	
3	338	323-334X342-425	9	↑		701			"	E.O.T. #701
4	340	325-336X344-427	11	↑		702			"	B.O.T. #702. FILE #90-10 SEC. ALL ONE'S
5	342	327-338X346-429	13	↑		↑			30%	UP #342 STACKED ON FIRST HALF DUE TO GAS LINE PUMP
6	SKIP	329-340X348-431	15	↑		↑				STA. UP #344 SKIPPED DUE TO PIPE LINE
7	346	331-342X350-433	17	↑		↑			50%	UP #346 STACKED ON WASH HALF
8	348	333-344X352-435	19	↑		↑			70%	
9	350	335-346X354-437	21	↓		↓			30%	UP #350 STACKED ON FIRST HALF DUE TO HOUSE
10	SKIP	337-348X356-439	23	↓		↓				UP #352 SKIPPED DUE TO HOUSE. E.O.T. #702.
11										Will be picking up line #2 due to interference
12										from another seismic crew in area, as per
13										client's request. picking up energy source
14										from north end of line #2 at approx. every
15										15 sec.
16										
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TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8-40 Hz / 2.2 SEC.	SWEEP PATTERN 660' SOURCE ARRAY	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN 2222 X 2222 	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 14-4100'S 1-4900	TYPE GEOPHONE ETW-EV22B	FREQUENCY 25 Hz	STATION INTERVAL 220'
REMARKS 4ms. Sample Rate. 4/2 sec. Record Length.	OBSERVER SIMMONS	PARTY MGR.			