

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division
Geosource Inc.**

CLIENT COCORP	AREA ARK	STATE ARK.	COUNTY Montgomery & Polk	DATE 3/16/81
CREW NO. 6834	TERRAIN Mountainous	WEATHER Clear	LINE NO. 4	

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	F I L T E R			REMARKS
							LOCUT	50~	AMP	
1	933 Pulse	1-6sec.				280	OUT	IN		B.O.T. #280 #900 10sec. All ones.
2	934 ETNT	2- " "								
3	939 D.R.D.	4- " "								Recorder Set up at 72-73
4	953 Sum TEST	2- " "								
5	961 N. Rt. Test	2- " "								vib #12 6 to 7 Down.
6	932 Similarity	1-26sec	275						50%	Moved line to Line 4.
7	001 Wind Strip	1-6sec.	1							Checking line.
8	002 100	1-96	1						70%	
9	003 102	3-98	3						70%	
10	004 104	5-100	5						70%	
11	005 106	7-102	7						70%	
12	006 108	9-104	9			280			70%	E.O.T. #280 Tape MKTS.
13	008 110	11-106	11			281			70%	B.O.T. #281 #900 10sec. All ones. #007 6 sec.
14	009 112	13-108	13						70%	Wind Strip.
15	010 114	15-110	15						70%	
16	011 116	17-112	17						70%	
17	012 118	19-114	19						70%	
18										
19										Finished For The Day.
20										
21										
22										
23										
24										
25										

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MD5-10
SWEEP FREQUENCY 8740Hz / 26sec	SWEEP PATTERN 4/16.3	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN 112233X332211	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-41100's 1-Y900	TYPE GEOPHONE FTLEVR2B	FREQUENCY 7.5Hz	STATION INTERVAL 330'
REMARKS 42 sec Sample Rate / 42 sec Record			OBSERVER J. Wings	PARTY MGR. J. Davis	

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CLIENT COCORP	AREA ARK.	STATE ARK.	COUNTY Montgomery + Polk	DATE 3/17/81
CREW NO. 6834	TERRAIN Mountainous	WEATHER Clear	LINE NO. 4	

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	F L T E R			RE MARKS
							LOCUT	60 ~	AMP	
1	Pulse	1-6sec				281	OUT	IN		Recorder set up at 92-93
2	ETNT	2-"								
3	D.R.D.	4-"								Vib #12667 Down.
4	Sum Test	2-"								
5	N.R.I. Test	2-"								
6	932 Similarity	1-26sec		4		281			50%	E.O.T. #281 Tape MKTS.
7	013 Wind Strip	1-6sec	1			282				B.O.T. #282 #900 10sec All ones.
8	014 120	21-116	1	4					70%	
9	015 122	23-118	3						70%	
10	016 124	25-120	5						70%	
11	017 126	27-122	7						70%	
12	018 128	29-124	9						70%	
13	019 130	31-126	11						70%	
14	020 132	33-128	13			282			70%	E.O.T. #282 Tape MKTS.
15	022 134	35-130	15			283			70%	B.O.T. #283 #900 10sec All ones. #121 6sec Wind
16	023 136	37-132	17						70%	strip.
17	024 138	39-134	19						70%	
18	025 140	41-136	21						70%	
19	026 142	43-138	23						70%	
20	027 144	45-140	25						70%	
21	028 146	47-142	27			283			70%	E.O.T. #283 Tape MKTS.
22	030 148	49-144	29			284			70%	B.O.T. #284 #900 10sec All ones. #029 6sec Wind
23	031 150	51-146	31						70%	strip.
24	032 152	53-148	33						70%	
25	033 154	55-150	35						70%	

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MD5-10
SWEEP FREQUENCY 8-40Hz / 26sec	SWEEP PATTERN 4/63	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN 112233X332211	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-Y1100's 1-Y900	TYPE GEOPHONE ETLEV22R	FREQUENCY 7.5Hz	STATION INTERVAL 3.30'
REMARKS 4 hrs Sample Rate 1/42 sec Record			OBSERVER J. Usinger	PARTY MGR. L. Davis	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division
Geosource Inc.**

CLIENT <i>COCORP</i>	AREA <i>ARK</i>	STATE <i>ARK.</i>	COUNTY <i>Montgomery & Polk</i>	DATE <i>3/17/81</i>
CREW NO. <i>6834</i>	TERRAIN <i>Mountainous</i>	WEATHER <i>Clear</i>		LINE NO. <i>4</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	80 ~	AMP		
1	034	156	57-152	37	4		284	OUT	IN	70%	
2	035	158	59-154	39							
3	036	160	61-156	41			284				E.O.T. #284 Tape MKTS.
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TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY	SWEEP PATTERN	SWEEPS PER PATTERN	SWEEP PATTERNS PER SETUP	PATCH PATTERN	
GEOPHONES PER PATCH	NO. OF RECORDING PATCHES	TYPE VIBRATOR	TYPE GEOPHONE	FREQUENCY	STATION INTERVAL
REMARKS	OBSERVER		PARTY NO.		

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
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Geosource Inc.**

CLIENT COCORP	AREA ARK	STATE ARK	COUNTY Montgomery + Polk	DATE 3/19/81
CREW NO. 6834	TERRAIN Mountainous	WEATHER Clear + Windy	LINE NO. 4	

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	F I L T E R			RE MARKS
							LOCUT	60 ~	AMP	
1 9.33	Pulse	1-6sec.				285	OUT	IN		B.O.T. #285 #900 10sec. All ones.
2 9.34 9.35	FWNT	2-"								Recorder set up at 134-135
3 9.36 9.39	D.R.D.	4-"								
4 9.53 9.54	Swamp Test	2-"								Vib. #12, 6, 7 Down.
5 9.69 9.61	N.R.S. Test	2-"								
6 9.32	Similarity	1-2 6sec.	225	4					50%	
7 0.37	Wind Strip	1-6sec.	1							
8 0.38	162	63-158	1	4					70%	
9 0.39	164	65-160	3						70%	
10 0.40	166	67-162	5						70%	
11 0.41	168	69-164	7						70%	
12 0.42	170	71-166	9			285			70%	E.D.T. #285 Tape MKTS.
13 0.44	172	73-168	11			286			70%	B.O.T. #286 #900 10sec. All ones. #043 6sec. Wind Strip.
14 0.45	174	75-170	13						70%	
15 0.46	176	77-172	15						70%	
16 0.47	178	79-174	17						70%	
17 0.48	180	81-176	19						70%	
18 0.49	182	83-178	21						70%	
19 0.50	184	85-180	23			286			70%	E.D.T. #286 Tape MKTS.
20 0.52	186	87-182	25			287			70%	B.O.T. #287 #900 10sec. All ones. #053 6sec.
21 0.53	188	89-184	27						70%	Wind Strip.
22 0.54	190	91-186	29						70%	
23 0.55	192	93-188	31						70%	
24 0.56	194	95-190	33						70%	
25 0.57	196	97-192	35						70%	

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8 → 40 Hz 126 sec		SWEEP PATTERN 4/163		SWEEPS PER PATTERN 16	
SWEEP PATTERNS PER SETUP 1		PATCH PATTERN 1122.33X.3322.11		FREQUENCY 7.5 Hz	
STATION INTERVAL 330'		LINE DIR. 1 TO 24		OBSERVER J. Wings	
PARTY MGR. L. Davis		REMARKS 4ms. Sample Rate 142.5 sec. Record			

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CLIENT <i>COCORP</i>	AREA <i>ARK</i>	STATE <i>ARK</i>	COUNTY <i>Montgomery & Polk</i>	DATE <i>3/19/81</i>
CREW NO. <i>6834</i>	TERRAIN <i>Mountainous</i>	WEATHER <i>clear & windy</i>	LINE NO. <i>4</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	198	99-194	37	4		287	OUT	IN	70%	E.O.T. #287 Tap MKT.S.
2	200	101-196	39			288			70%	B.O.T. #288 = 900 10sec. All ones. #059 (6sec. Wind Strip)
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TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY	SWEEP PATTERN	SWEEPS PER PATTERN	SWEEP PATTERNS PER SETUP	PATCH PATTERN	
GEOPHONES PER PATCH	NO. OF RECORDING PATCHES	TYPE VIBRATOR	TYPE GEOPHONE	FREQUENCY	STATION INTERVAL
REMARKS	OBSERVER			PARTY MGR.	

**OBSERVER'S REPORT
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**Exploration Services
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CLIENT COCORP	AREA ARK.	STATE ARK.	COUNTY Montgomery + Polk	DATE 3/21/81
CREW NO. 6834	TERRAIN Mountainous	WEATHER Overcast + Rain	LINE NO. 4	

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	F I L T E R			REMARKS
							LOCUT.	60 ~	AMP	
1 933	Pulse	1-6 sec.				288	OUT	IN		Recorder set up at 174-175
2 934	FTNT	2- " "								
3 935	D.R.D.	4- " "								
4 953	Sum Test	2- " "								
5 960	N.R.T. Test	2- " "								
6 932	Signifarity	1-26 sec.	220	4						
7 061	Wind Strip	1-6 sec.	1							
8 062	202	103-198	1							Rain picking up. Picking up leakage on line. Wind picking up.
9 063	204	105-200	3							
10										
11										Shutting Down due to Rain, wind + leakage on line.
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23										
24										
25										

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8-740 Hz / 26 sec.	SWEEP PATTERN 4/63	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN 1122.33X332.211	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-V1100's 1-V900	TYPE GEOPHONE ETLEV22B	FREQUENCY 7.5 Hz.	STATION INTERVAL 330'
REMARKS 4 hrs Sample Rate 1/42 sec. Record	OBSERVER J. Wings	PARTY MGR. L. Davis			

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Geosource Inc.**

CLIENT <i>COCORP</i>	AREA <i>ARK</i>	STATE <i>ARK.</i>	COUNTY <i>Montgomery + Polk</i>	DATE <i>3/23/81</i>
CREW NO. <i>6834</i>	TERRAIN <i>Mountainous</i>	WEATHER <i>Clear + Wet</i>		LINE NO. <i>4</i>

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER			REMARKS
							LOCUT	80 ~	AMP	
1	<i>933 Pulse</i>	<i>2-6sec.</i>				<i>288</i>	<i>OUT</i>	<i>IN</i>		<i>Recorder set AT 178-179</i>
2	<i>934 FTNT</i>	<i>2-"</i>								
3	<i>935 D.R.D.</i>	<i>4-"</i>								
4	<i>936 Sumtest</i>	<i>2-"</i>								<i>Vib * 12667 Down</i>
5	<i>937 N.R.T. Test</i>	<i>2-"</i>				<i>288</i>				<i>E.O.T. #288 Tape MKTS.</i>
6	<i>932 Similarity</i>	<i>1-2.6sec</i>	<i>225</i>	<i>4</i>		<i>289</i>			<i>50%</i>	<i>B.O.T. #289 "900 10sec. All ones."</i>
7	<i>064 Wind Strip</i>	<i>1-6sec.</i>								
8	<i>065 206</i>	<i>107-202</i>	<i>1</i>	<i>4</i>					<i>70%</i>	
9	<i>066 208</i>	<i>109-204</i>	<i>3</i>						<i>70%</i>	
10	<i>067 210</i>	<i>111-206</i>	<i>5</i>						<i>70%</i>	
11	<i>068 212</i>	<i>113-208</i>	<i>7</i>						<i>70%</i>	
12	<i>069 214</i>	<i>115-210</i>	<i>9</i>						<i>70%</i>	<i>* 214 stacked 1st half</i>
13	<i>SKIP 216</i>	<i>117-212</i>	<i>11</i>						<i>70%</i>	<i>* 216 skip due to dam.</i>
14	<i>070 218</i>	<i>119-214</i>	<i>13</i>						<i>70%</i>	
15	<i>071 220</i>	<i>121-216</i>	<i>15</i>			<i>289</i>			<i>70%</i>	<i>EOT * 289 Tape MKTS</i>
16	<i>073 222</i>	<i>123-218</i>	<i>17</i>			<i>290</i>			<i>70%</i>	<i>Bot * 290 "900 10sec All ones * 072 6 sec wind strip</i>
17	<i>074 224</i>	<i>125-220</i>	<i>19</i>						<i>70%</i>	
18	<i>075 226</i>	<i>127-222</i>	<i>21</i>						<i>70%</i>	<i>Vibs having trouble receiving good tones moved</i>
19	<i>076 228</i>	<i>129-224</i>	<i>1</i>						<i>70%</i>	<i>Recorder to 200-201.</i>
20	<i>077 230</i>	<i>131-226</i>	<i>3</i>						<i>70%</i>	
21	<i>078 232</i>	<i>133-228</i>	<i>5</i>						<i>70%</i>	
22	<i>079 234</i>	<i>135-230</i>	<i>7</i>			<i>290</i>			<i>70%</i>	<i>EOT * 290 Tape MKTS * 900 10sec All ones * 080 6 sec wind</i>
23	<i>081 236</i>	<i>137-232</i>	<i>9</i>			<i>291</i>			<i>70%</i>	<i>strip. B.O.T. = 291. ON VP * 236.</i>
24	<i>082 238</i>	<i>139-234</i>	<i>11</i>						<i>70%</i>	
25	<i>083 240</i>	<i>141-236</i>	<i>13</i>						<i>70%</i>	

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. <i>MD5-10</i>
SWEEP FREQUENCY <i>8-40Hz / 12.6sec</i>	SWEEP PATTERN <i>4163</i>	SWEEPS PER PATTERN <i>16</i>	SWEEP PATTERNS PER SETUP <i>1</i>	PATCH PATTERN <i>112233X332211</i>	
GEOPHONES PER PATCH <i>24</i>	NO. OF RECORDING PATCHES <i>96</i>	TYPE VIBRATOR <i>4-Y11005 1-Y900</i>	TYPE GEOPHONE <i>ETLEVR22B</i>	FREQUENCY <i>7.5Hz</i>	STATION INTERVAL <i>330'</i>
REMARKS <i>4 hrs Sample Rate 142 sec Record</i>	OBSERVER <i>R. Patten / J. Wingo</i>		PARTY NO. <i>J. Davis</i>		

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division
Geosource Inc.**

CLIENT Cocorp	AREA ARK	STATE ARK	COUNTY POIK	DATE 3-23-81
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CREW NO. 6834	TERRAIN Mountains	WEATHER Clear & wet	LINE NO. 4
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REC. NO.	SWEEP POINT	PATCH LOCATIONS	COP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	F I L T E R			RE MARKS
							LOCUT	80 ~	AMP	
1	084	242	143-238	15	4	291	out	IN	70%	
2	085	244	145-240	17					70%	
3	086	246	147-242	19					70%	
4	087	248	149-244	21		291			70%	Top = 291 Tape MKTS
5	089	250	151-246	23		292			70%	Bot = 292 * 900 10sec All ones * 088 10sec wind strip.
6	090	252	153-248	25					70%	
7	091	254	155-250	27					70%	
8	092	256	157-252	29					70%	
9	093	258	159-254	31					70%	
10	094	260	161-256	33					70%	Finished For the Day.
11										
12										
13										
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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 MOR.			

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division
Geosource Inc.**

CLIENT COCORP	AREA ARK	STATE ARK	COUNTY Polk	DATE 3/24/81
CREW NO. 6834	TERRAIN Mountainous	WEATHER Clear	LINE NO. 4	

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	F I L T E R			REMARKS
							LOCUT	80~	AMP	
1	933 Pulse	1-6sec.				292	OUT	IN		Recorder set up at 334-335
2	934 935 FINT	2- " "								STA # 292 Dead due to Bridge # 294 Dead due to Drive
3	936 939 D.R.D.	4- " "								Vib # 12667 Down.
4	953 954 Sum Test	2- " "				292				For # 292 Tape MKTs
5	960 961 N.R.J. Test	2- " "				293				Bot # 293 # 900 10sec All ones
6	932 Similarity	1-2.6sec.	225	4					50%	
7	095 Wind Strip	1-6sec.								
8	096 262	163-258	1	4					70%	
9	097 264	165-260	3						70%	
10	098 266	167-262	5						70%	
11	099 268	169-264	7						70%	
12	100 270	171-266	9						70%	
13	101 272	173-268	11						70%	E.O.T. #293 Tape MKTs. on V.P. #274
14	102 274	175-270	13			293			70%	B.O.T. #294 #900 10sec All ones #10.2 6sec Wind
15	104 276	177-272	15			294			70%	strip.
16	105 278	179-274	17						70%	
17	106 280	181-276	19						70%	
18	107 282	183-278	21						70%	
19	108 284	185-280	23						50%	#284 stacked First half due to House.
20	109 286	187-282	25						50%	#286 stacked Last half " " "
21	110 288	189-284	27			294			50%	E.O.T. #294 Tape MKTs.
22	112 290	191-286	29			295			50%	B.O.T. #295 #900 10sec All ones #111 6sec Wind
23	Skip 292	193-288	31							Skip Strip #290 stacked Last half.
24	Skip 294	195-290	33							Skip due to House
25	Skip 296	197-292	35							Skip " " "

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MD5-10
SWEEP FREQUENCY 874Hz / 2.6sec	SWEEP PATTERN 4/6.3	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN 1122.3.3X.3.32211	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-V1100⁴ 1-1900	TYPE GEOPHONE ETLEV22B	FREQUENCY 7.5Hz.	STATION INTERVAL 330'
REMARKS 4ms. Sample Rate 1/2 sec Record			OBSERVER R. Patton / J. Wingo	PARTY MGR. J. Davis	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division**
Geosource Inc.

CLIENT <i>COCORP</i>	AREA <i>ARK.</i>	STATE <i>ARK.</i>	COUNTY <i>Polk</i>	DATE <i>3/24/81</i>
CREW NO. <i>16834</i>	TERRAIN <i>Mountainous</i>	WEATHER <i>Clear</i>	LINE NO. <i>4</i>	

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER			REMARKS
							LOCUT	60~	AMP	
1	298	199-294	37	4		295	OUT-IN	50%	#298 Stacked Last half due to House.	
2	300	201-296	39			295		50%	E.O.T. #295 Tape MKTS.	
3										
4										
5									E.O.L. #4	
6										
7										
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TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY	SWEEP PATTERN	SWEEPS PER PATTERN	SWEEP PATTERNS PER SETUP	PATCH PATTERN	
GEOPHONES PER PATCH	NO. OF RECORDING PATCHES	TYPE VIBRATOR	TYPE GEOPHONE	FREQUENCY	STATION INTERVAL
REMARKS	OBSERVER			PARTY MGR.	