

**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.	FILTER			REMARKS
							LOCUT	60~	AMP	
1	933 Pulse	1-6sec.				280	OUT	IN		B.O.T. #280 #900 10sec. All ones.
2	934 935 ETNT	2- " "								
3	936 939 D.R.D.	4- " "								Recorder Set up at 72-73
4	953 954 Sum Test	2- " "								
5	960 961 N.R.T. Test	2- " "								Vib #12 667 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 8-40Hz / 26sec	SWEEP PATTERN 4/16.3	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN 112233X.332211	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-Y1100's 1-Y900	TYPE GEOPHONE FTLEV22B	FREQUENCY 7.5Hz	STATION INTERVAL 330'
REMARKS 4ms Sample Rate / 42 sec Record			OBSERVER J. Wings	PARTY MGR. J. Davis	

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Geosource Inc.**

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 I L T E R			REMARKS
							LOCUT	60 ~	AMP	
1	933 Pulse	1-6sec.				281	OUT	IN		Recorder set up at 92-93
2	934 935 ETNT	2- " "								
3	936 939 D.R.D.	4- " "								Vib #12667 Down.
4	953 954 Sum Test	2- " "								
5	960 961 N.R.T. 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 → 40 Hz / 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-V1100's 1-V900	TYPE GEOPHONE ETLEV22B	FREQUENCY 7.5 Hz.	STATION INTERVAL 330^A
REMARKS 4ms. Sample Rate 1/42 sec. Record			OBSERVER J. Wings	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	60 ~	AMP	
1	<i>034</i>	<i>156</i>	<i>57-152</i>	<i>37</i>	<i>4</i>	<i>284</i>	<i>OUT</i>	<i>IN</i>	<i>70%</i>	
2	<i>035</i>	<i>158</i>	<i>59-154</i>	<i>39</i>						
3	<i>036</i>	<i>160</i>	<i>61-156</i>	<i>41</i>		<i>284</i>				<i>E.O.T. #284 Tape MKT3.</i>
4										
5										<i>Finished For The Day.</i>
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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 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			REMARKS
							LOCUT	60 ~	AMP	
1	933 Pulse	1-6sec.				285	OUT	TN		B.O.T. #285 #900 10sec. All ones.
2	934 935 FIWT	2- " "								Recorder set up at 134-135.
3	936 939 D.R.D.	4- " "								
4	953 954 Sum Test	2- " "								Vib. #12667 Down.
5	960 961 N.R.S. Test	2- " "								
6	932 Similarity	1-26sec.	225	4						50%
7	037 Wind Strip	1-6sec.	1							
8	038 162	63-158	1	4						70%
9	039 164	65-160	3							70%
10	040 166	67-162	5							70%
11	041 168	69-164	7							70%
12	042 170	71-166	9			285				70% E.O.T. #285 Tape MKTS.
13	044 172	73-168	11			286				70% B.O.T. #286. #900 10sec. All ones. #043 6sec. Wind Strip.
14	045 174	75-170	13							70%
15	046 176	77-172	15							70%
16	047 178	79-174	17							70%
17	048 180	81-176	19							70%
18	049 182	83-178	21							70%
19	050 184	85-180	23			286				70% E.O.T. #286 Tape MKTS.
20	052 186	87-182	25			287				70% B.O.T. #287 #900 10sec. All ones. #053 6sec.
21	053 188	89-184	27							70% Wind Strip.
22	054 190	91-186	29							70%
23	055 192	93-188	31							70%
24	056 194	95-190	33							70%
25	057 196	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 4/16.3		SWEEPS PER PATTERN 16	
SWEEP PATTERNS PER SETUP 1		PATCH PATTERN 1122.33X332211			
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4- Y1100's 1- Y900	TYPE GEOPHONE ETLEV22B	FREQUENCY 7.5 Hz.	STATION INTERVAL 330'
REMARKS 4ms. Sample Rate 1/42 sec. Record			OBSERVER J. Wingard	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 & Plk</i>	DATE <i>3/19/81</i>
CREW NO. <i>68.34</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			RE MARKS
							LOCUT	60 ~	AMP	
1	058	198	99-194	37	4	287	OUT	IN	70%	E.O.T. #287 Tap MKTS.
2	060	200	101-196	39		288			70%	B.O.T. #288 #900 10sec. All ones. #059 6sec. Wind Strip
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4										
5										<i>Finished For The Day.</i>
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TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY	SWEEP PATTERN	SWEEPS PER PATTERN	SWEEP PATTERNS PER SETUP	PATCH PATTERN	
GEOPHONES PER PATCH	NO. OF RECORDING PATCHES	TYPE VIBRATOR	TYPE GEOPHONE	FREQUENCY	STATION INTERVAL
REMARKS			OBSERVER	PARTY MGR.	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division
Geosource Inc.**

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	1-6sec.				288	OUT	IN		Recorder set up at 174-175
2	934 ETNT	2- " "								
3	936 D.R.D.	4- " "								
4	953 Sum Test	2- " "								
5	960 N.R.J. Test	2- " "								
6	932 Similarity	1-26sec.	220	4						
7	061 Wind Strip	1-6sec.	1							
8	062 202	103-198	1							Rain picking up. Picking up leakage on
9	063 204	105-200	3							line. Wind picking up.
10										
11										Shutting Down due to Rain, wind +
12										leakage on line.
13										
14										
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23										
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25										

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY 8 → 40 Hz / 26 sec.	SWEEP PATTERN 4163	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN 1122.33X332211	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-Y1100's 1-Y900	TYPE GEOPHONE ETLEVR22B	FREQUENCY 7.5 Hz.	STATION INTERVAL 330'
REMARKS 4ms Sample Rate / 42 sec. Record			OBSERVER J. Wings	PARTY MGR. L. Davis	

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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>3/23/81</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	60~	AMP	
1	<i>Pulse</i>	<i>2-6sec.</i>				<i>288</i>	<i>OUT</i>	<i>IN</i>		<i>Recorder set At 178-179</i>
2	<i>FI NT</i>	<i>2-"</i>								
3	<i>D.R.D.</i>	<i>4-"</i>								
4	<i>Sum test</i>	<i>2-"</i>								<i>Vib # 12667 Down</i>
5	<i>N.R.I. Test</i>	<i>2-"</i>				<i>288</i>				<i>E.O.T. #288 Tape MKTS.</i>
6	<i>Similarity</i>	<i>1-26sec.</i>	<i>225</i>	<i>4</i>		<i>289</i>				<i>50% B.O.T. #289 #900 10sec. All ones. "</i>
7	<i>Wind Strip</i>	<i>1-6sec.</i>	<i>1</i>							
8	<i>206</i>	<i>107-202</i>	<i>1</i>	<i>4</i>						<i>70%</i>
9	<i>208</i>	<i>109-204</i>	<i>3</i>							<i>70%</i>
10	<i>210</i>	<i>111-206</i>	<i>5</i>							<i>70%</i>
11	<i>212</i>	<i>113-208</i>	<i>7</i>							<i>70%</i>
12	<i>214</i>	<i>115-210</i>	<i>9</i>							<i>70% *214 stacked 1st half</i>
13	<i>SKIP</i>	<i>216</i>	<i>117-212</i>	<i>11</i>						<i>SKIP *216 skip due to dam.</i>
14	<i>218</i>	<i>119-214</i>	<i>13</i>							<i>70%</i>
15	<i>220</i>	<i>121-216</i>	<i>15</i>			<i>289</i>				<i>70% EOT # 289 Tape MKTS</i>
16	<i>222</i>	<i>123-218</i>	<i>17</i>			<i>290</i>				<i>70% BOT # 290 #900 10sec All ones * 072 6 sec wind strip.</i>
17	<i>224</i>	<i>125-220</i>	<i>19</i>							<i>70%</i>
18	<i>226</i>	<i>127-222</i>	<i>21</i>							<i>70% Vib's having trouble Receiving good tones moved</i>
19	<i>228</i>	<i>129-224</i>	<i>1</i>							<i>70% Recorder to 200-201.</i>
20	<i>230</i>	<i>131-226</i>	<i>3</i>							<i>70%</i>
21	<i>232</i>	<i>133-228</i>	<i>5</i>							<i>70%</i>
22	<i>234</i>	<i>135-230</i>	<i>7</i>			<i>290</i>				<i>70% EOT # 290 Tape MKTS #900 10sec All ones *080 6sec wind</i>
23	<i>236</i>	<i>137-232</i>	<i>9</i>			<i>291</i>				<i>70% Strip B.O.T # 291. ON VP # 236.</i>
24	<i>238</i>	<i>139-234</i>	<i>11</i>							<i>70%</i>
25	<i>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>3-40Hz / 26sec.</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>ETL EV22B</i>	FREQUENCY <i>7.5 Hz.</i>	STATION INTERVAL <i>330'</i>
REMARKS <i>4ms. Sample Rate / 42 sec. Record</i>	OBSERVER <i>R. Patten / J. Wings</i>	PARTY MGR. <i>L. Davis</i>	LINE DIR. 1 TO 24 <i>E → W</i>		

**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>POIK</i>	DATE <i>3-23-81</i>
CREW NO. <i>6834</i>	TERRAIN <i>Mountains</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.	F I L T E R			RE MARKS	
							LOCUT	60 ~	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%	Foot # 291 Tape MKTS
5	089	250	151-246	23		292				70%	Bot # 292 # 900 10sec All ones # 088 6sec 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											
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TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO.
SWEEP FREQUENCY	SWEEP PATTERN	SWEEPS PER PATTERN	SWEEP PATTERNS PER SETUP	PATCH PATTERN	
GEOPHONES PER PATCH	NO. OF RECORDING PATCHES	TYPE VIBRATOR	TYPE GEOPHONE	FREQUENCY	STATION INTERVAL
REMARKS			OBSERVER	PARTY MGR.	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
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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	60 ~	AMP	
1	933 Pulse	1-6sec.				292	OUT	IN		Recorder set up at 334-335
2	934 935 FINT	2- " "								STA # 272 Dead due TO Bridge # 294 Dead due TO Driveway
3	936 939 D.R.D.	4- " "								Vib. #12667 Down.
4	953 954 Sam Test	2- " "				292				EOT # 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.	1							
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 #103 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. MDS-10
SWEEP FREQUENCY 2-40Hz/2.6sec	SWEEP PATTERN 4/6.3	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN 112233X332211	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-V1100's 1-V900	TYPE GEOPHONE ETHEV22B	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>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.	FILTER			REMARKS	
							LOCUT	60 ~	AMP		
1	113	298	199-294	37	4	295	OUT	IN	50%	#298 Stacked Last half due to House.	
2	114	300	201-296	39		295			50%	E.O.T. #295 Tape MK13.	
3											
4											
5										<i>E.O.L. #4</i>	
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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.		