

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical
Division
Geosource Inc.

CLIENT COCORP	AREA MINN. LINE #1	STATE MINN	COUNTY OTTER TAIL	DATE 5-29-79
CREW NO. 6834	TERRAIN PAVED ROAD STRAIGHT	WEATHER OVERCAST - WINDS	LINE NO. 1	

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	WIND SERIP	1-6 SEC.	17			386	OUT	IN	RECORDER SET UP BETWEEN STA'S #56 & #57. B.O.T. #386 FILE #900-10 SEC. 11/10/79's 1-96 CORRELATION MADE ON FILE #007. WILL BE PULLING SPREAD FROM NORTH TO SOUTH. FINISHED FOR THE DAY DOWN DUE TO RAIN + LIGHTING!
2									
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25									

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MPX-127
SWEEP FREQUENCY 8-40 Hz / 2 SEC		SWEEP PATTERN CODE # 4163	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN 1111222222221111 CODE # 2125
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 1-4900 3-41100	TYPE GEOPHONE FTL-EV22B	FREQUENCY 7.5 Hz.	STATION INTERVAL 330'
REMARKS 4 M.S. SAMPLE RATE / 42 SEC. REC. LN.			OBSERVER/S.O. RICHARDS/KRAMER	PARTY MGR.	

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical
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CLIENT COCORP	AREA MINN. LINE #1	STATE MINN	COUNTY OTTER TAIL	DATE 5-30-79
CREW NO. 6834	TERRAIN PAVED Road - Level	WEATHER cloudy - RAINy		LINE NO. 1

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 TEST	1-6 SEC				386	OUT	IN		
934 935	EINT	2- "								
936 939	DRD	4- "								
953 954	SUM	2- "								
960 961	NRS	2- "								
6 932	SIMILARITY	1-22 SEC		4					50%	
7 007	WINDSTRIP	1-80								WET SPREAD
8 SKIP 83		1-80	1	4						USING CH 17-96 V.P.#083 SKIPPED DUE TO HOUSE.
9 008	85	1-82	3						70%	1-96 CORRELATION MADE ON FILE #008
10 SKIP	87	1-84	5							
11 SKIP 89		1-86	7							V.P.#87-103 SKIPPED DUE TO HOUSE
12 SKIP	91	1-88	9							
13 SKIP	93	1-80	11							
14 SKIP	95	1-92	13							
15 SKIP	97	1-94	15							
16 SKIP	99	1-96	17							
17 SKIP	101	3-98	19							
18 SKIP	103	5-100	21							
19 009	104	6-101	22							
20 010	105	7-102	23			386				E.O.T.#386 FINISHED FOR THE DAY DUE TO RAIN + LEAKAGE.
21										
22										
23										
24										
25										

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS-10 SEGB MPX-127
SWEEP FREQUENCY 8-40/22 sec	SWEEP PATTERN Code 4163	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN 1111122222221111	CODE # 2125
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-4106 1-4900	TYPE GEOPHONE EV22B	FREQUENCY 7.5	STATION INTERVAL 330'
REMARKS 4 M.S. SAMPLE RATE 42 SEC. REC. LN.			OBSERVER RICHARDS/KRAMER	PARTY MGR.	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Petty-Ray Geophysical
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Geosource Inc.

CLIENT COCORP	AREA MINN LINE #1	STATE MINN	COUNTY OTTER TAIL	DATE 5-31-79
CREW NO. 6834	TERRAIN PAVED ROAD	WEATHER OVERCAST - VERY WET		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 ~	
1 933	PULSE	1 - 6 SEC.				387	OUT	IN	BOT. #387 FILE #900-10 SEC. ALONE'S
934-935	FNTE	2 - "							RECORDER SETUP BETWEEN STA'S 79+80
936-939	DRD	4 - "							
943-954	SUMTEST	2 - "							
960-961	NRS	2 - "							
6 932	SIMILARITY	1 - 22 SEC.		4					50%
7 011	WIND STRIP	1 - 6 SEC.							CHECKING LINE
8									
9									DOWN FOR THE DAY DUE TO LEAKAGE + GROUND CURRENT
10									(WIND STRIP ATT.)
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
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25									

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS-D-SEG B MPX-127
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SWEEP FREQUENCY 8-40 Hz / 22 SEC	SWEEP PATTERN CODE #1463	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN 11112222222-1111 CODE #2125
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 3-P1100 1-P900	TYPE GEOPHONE ETL-EV22B	FREQUENCY 7.5 Hz.
STATION INTERVAL 330'			LINE DIR. N75	

REMARKS 4 M.S. SAMPLE RATE 1/2 SEC. REC. LN.	OBSERVER J.O. RICHARDS / KRAMER	PARTY MGR.
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OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

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CLIENT COCORP	AREA MINN LINE #1	STATE MINN	COUNTY OTTER TAIL	DATE 6-1-79
CREW NO. 6834	TERRAIN PAVED ROAD	WEATHER CLEAR-WINDY - LIGHT RAIN		LINE NO. 1

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER		REMARKS
							LOCUT	60 ~	
1	SKIP 123	25-120	18	4		389	OUT	IN	70%
2	SKIP 124	26-121	19						
3	SKIP 125	27-122	20						V.P.# 123-129 SKIPPED DUE TO HOUSE'S + BARNS + WATER WELLS.
4	SKIP 126	28-123	21						
5	SKIP 127	29-124	22						
6	SKIP 128	30-125	23						
7	SKIP 129	31-126	24						
8	027 130	32-127	25						50% V.P.# 130 STACKED ON FIRST HALF DUE TO HOUSE: DRIVES TURNED TO 50% FOR HOUSE.
9	SKIP 131	33-128	26						
10	SKIP 132	34-129	27						
11	028 133	35-130	28			389			50% V.P.# 133 STACKED ON LAST HALF DUE TO HOUSE: E.O.T.# 389
12	SKIP 134	36-131	29			390			B.O.T.# 390 FILE #900-10 SEC. HILLONE'S. FILE #029 WIND STRIP.
13	SKIP 135	37-132	30						
14	SKIP 136	38-133	31						V.P.# 134-137 SKIPPED DUE TO HOUSE'S.
15	SKIP 137	39-134	32						
16	030 138	40-135	33						50% V.P.# 138 STACKED ON LAST HALF DUE TO HOUSE.
17	SKIP 139	41-136	34						
18	SKIP 140	42-137	35						V.P.# 139-141 SKIPPED DUE TO HOUSE'S: RAIN + WIND PICKING UP
19	SKIP 141	43-138	36						STANDING BY FOR GEOPHONES + CABLES.
20	031	44-139	37						70% V.P.# 142 STACKED ON LAST HALF DUE TO HOUSE. DOWN FOR THE DAY; DUE TO WIND! (SEE NOISE STRIP)
21									
22									
23									
24									
25									

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS-10 SEG-B MPX-127
SWEEP FREQUENCY 8-40 Hz / 2.2 SEC.	SWEEP PATTERN CODE #4463	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN 111112222222 1111	CODE #2125
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 3-4100 1-4900	TYPE GEOPHONE ETL-EV22B	FREQUENCY 7.5 Hz	STATION INTERVAL 330
REMARKS 4 MS. SAMPLE RATE		42 SEC. REC. LN.		OBSERVER/S.O. RICHARDS / KRAMER	PARTY MGR.

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

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6

CLIENT COCORP	AREA MINN LINE #1	STATE MINN	COUNTY OTTER TAIL	DATE 6-2-79
CREW NO. 6834	TERRAIN PAVED ROAD	WEATHER OVERCAST - LIGHT RAIN - WINDY		LINE NO. 1

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				RECORDER SET UP BETWEEN STAS 104+105
2	934-935	EINE	2	—	"				
3	936-939	DRD	4	—	"				
4	953-954	SUMTESE	2	—	"				
5	960-961	NRJ	2	—	"				
6	932	Similarity	1	—	2.2 SEC				50%
7	031	WIND STRIP	1	—	6 SEC				CHECKING LINE: STARTING TO RAIN
8	032	142	44	—	139	12	4		70% 1-96 CORRELATION MADE ON FILE #032
9	033	143	45	—	140	13			
10	034	144	46	—	141	14		390	E.O.T.#390: RAIN PICKING UP!
11	035	145	47	—	142	15		391	B.O.T.#391 FILE #900-10SEC. ALLONES.
12	036	147	49	—	144	17			WILL BE VIBRATING EVERY OTHER STATION.
13	037	149	51	—	146	19			STA.#145 WILL BE OPEN DUE TO INTERSECTION.
14	038	151	53	—	148	21			
15	SKIP	153	55	—	150	23			V.P.#153-155 SKIPPED DUE TO HOUSES.
16	SKIP	155	57	—	152	25			STOPPED RAINING: WIND PICKING UP
17	039	156	58	—	153	26			V.P.#156 STACKED ON LAST HALF DUE TO HOUSE.
18	040	157	59	—	154	27			
19	041	159	61	—	156	29		391	E.O.T.#391
20	042	161	63	—	158	31		392	B.O.T.#392 FILE #900-10SEC. ALLONES.
21	043	163	65	—	160	33			
22	SKIP	165	67	—	162	35			V.P.#165 SKIPPED DUE HOUSE.
23	044	167	69	—	164	37			V.P.#167 STACKED ON LAST HALF DUE TO HOUSE.
24	045	169	71	—	166	39			
25	046	171	73	—	168	41			

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS-10 SEG B - MPX-127
SWEEP FREQUENCY 8-40 Hz / 2.2 SEC	SWEEP PATTERN CODE #4163	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN 1111222222221111	CODE # 2125
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 3-PT100 1-4900	TYPE GEOPHONE ETL-EV22B	FREQUENCY 7.5 Hz	STATION INTERVAL 3.30'
REMARKS 4 M.S. SAMPLE RATE 42 SEC. REC. LN.		OBSERVER J.S.O. KRAMER / KROL		PARTY MGR.	

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DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical
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Geosource Inc.

CLIENT COCORP	AREA MINN LINE #1	STATE MINN	COUNTY OTTER TAIL	DATE 6-2-79
CREW NO. 6834	TERRAIN PAVED ROAD	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	047	173	75 - 170	43	4		392	OUT	IN	70%	
2	048	175	77 - 172	45			392				E.O.T # 392
3	050	177	79 - 174	47			393				B.O.T # 393 FILE # 900-10 SEC. ALIENS. FILE # 49 WIND STRIP
4	051	179	81 - 176	49							RECORDER MOVE. WINDS GUSTING TO 20 MPH.
5	052	181	83 - 178	11							RECORDER SET UP BETWEEN SEAS 144 + 145
6	SKIP	183	85 - 180	13							V.P. # 183 SKIPPED DUE TO HOUSE.
7	053	185	87 - 182	15							1-96 CORRELATION MADE ON FILE # 053
8	054	187	89 - 184	17							3 RAW SWEEPS MADE ON FILE # 054 FOR QUALITY CONTROL; FOR DR. KRAMER.
9	055	189	91 - 186	19			393				E.O.T # 393
10	056	191	93 - 188	21			394				B.O.T # 394 FILE # 900-10 SEC. ALIENS: STANDING BY FOR TRAIN
11											
12											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. MDS-10 SEGB - MPK-121
SWEEP FREQUENCY 8-40 Hz / 22 SEC	SWEEP PATTERN CODE # 4163	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN 111122222221111	CODE # 2125
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 3-PK 1-900	TYPE GEOPHONE ETL-EV22B	FREQUENCY 7.5 Hz	STATION INTERVAL 330'
REMARKS 4 M.S. SAMPLE RATE 42 SEC. REC. 2 N.		OBSERVER / S.O. KRAMER / KROL		PARTY MGR.	

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical
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CLIENT COCORP	AREA MINN LINE #1	STATE MINN.	COUNTY OTTER TAIL	DATE 6-4-79
CREW NO. 6834	TERRAIN PAVED ROAD	WEATHER CLEAR		LINE NO. 1

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			394	OUT	IN	RECORDER SET UP BETWEEN STAS 168-169
2	934	FLINT	2 - "						LINE CROSSES HIWAY #10 BETWEEN STAS 192+193 ALSO R.R. TRACKS
3	936	DRD	4 - "						NOISE ON STA #193+194 DUE TO SAW MILL + AUTO SALVAGE YARD.
4	953	SUM TEST	2 - "						
5	960	NRJ	2 - "						
6	932	SIMILARITY	1 - 2.2 SEC	4					50%
7	057	WIND STRIP	1 - 6 SEC						CHECKING LINE.
8	SKIP	193	95 - 190	4					V.P.#193 SKIPPED DUE TO HIWAY #10 + R.R. TRACKS.
9	058	195	97 - 192	1					50% 1-96 CORRELATION MADE ON FILE #058: DRIVES SET AT 50% FOR HOUSE
10	059	197	99 - 194	3					70% V.P.#197 STACKED ON LAST HALF DUE TO HOUSE, DRIVES SET AT 70%
11	060	199	101 - 196	5		394			E.O.T.#394
12	061	201	103 - 198	7		395			B.O.T.#395 FILE #900-10 SEC ALONE'S.
13	SKIP	203	105 - 200	9					V.P.#203 SKIPPED DUE TO HOUSE.
14	062	205	107 - 202	11					STANDING BY FOR TRAIN
15	063	207	109 - 204	13					
16	SKIP	209	111 - 206	15					V.P.#209-213 SKIPPED DUE TO TURKEY RANCH
17	SKIP	211	113 - 208	17					LINE CROSSES HIWAY 29 BETWEEN STAS 208+209
18	SKIP	213	115 - 210	19					
19	064	215	117 - 212	21					V.P.#215 STACKED ON LAST HALF DUE TO HOUSE + RANCH
20	065	216	118 - 213	22					
21	066	217	119 - 214	23					
22	067	219	121 - 216	25		395			E.O.T.#395 STANDING BY FOR TRAIN
23	069	221	123 - 218	27		396			B.O.T.#396 FILE #900-10 SEC ALONE'S. FILE #068 WIND STRIP
24	070	223	125 - 220	29					STANDING BY FOR TRAIN
25	071	225	127 - 222	31					

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS-10-SEGB 14PX 121
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SWEEP FREQUENCY 8-40 Hz / 2.2 SEC	SWEEP PATTERN CODE # 4163	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN 111122222221111	CODE # 2125
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 3-9100 1-4900	TYPE GEOPHONE ETL-EV22B	FREQUENCY 2.5 Hz	STATION INTERVAL 330'
REMARKS 4 M.S. SAMPLE RATE 42 SEC. REC. LN.			OBSERVER 130. KRAMER / KROL	PARTY MGR.	

REMARKS: **4 M.S. SAMPLE RATE 42 SEC. REC. LN.**

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

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CLIENT CDGCRP	AREA MINN LINE #1	STATE MINN	COUNTY OTTER TAIL	DATE 6-4-79
CREW NO. 6834	TERRAIN PAVED ROAD	WEATHER CLEAR		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	072	129 - 224	33	4		396	Out	IN	70%
2	073	131 - 226	35						
3	074	133 - 228	37						V.P.# 231 STACKED ON FIRST HALF DUE TO HOUSE.
4	075	135 - 230	39			396			V.P.# 233 " " LAST " " " " " " F.O.T.# 396
5	076	137 - 232	41			397			B.O.T.# 397 FILE #900-10SEC. ALONE'S.
6	077	139 - 234	43						
7	078	141 - 236	45				50%		V.P.# 239 STACKED ON FIRST HALF DUE TO HOUSE. DRIVES SET AT 50%.
8	079	143 - 238	47						V.P.# 241 STACKED ON LAST HALF DUE TO HOUSE.
9	080	145 - 240	49						V.P.# 243 STACKED ON FIRST HALF DUE TO GAS WELL. RECORDER MOVE.
10	SKIP	147 - 242	24						RECORDER SET UP BETWEEN STAS 195 + 196:
11	SKIP	149 - 244	26						
12	SKIP	151 - 246	28						V.P.s # 245-251 SKIPPED DUE TO HOUSES.
13	SKIP	153 - 248	30						
14	081	154 - 249	31						RAW SWEEP MADE ON FILE #081: STANDING BY FOR TRAIN.
15	082	155 - 250	32			397			F.O.T.# 397: 1-96 CORRELATION MADE ON FILE #082.
16	083	156 - 251	33			398			B.O.T.# 398 FILE #900-10SEC. ALONE'S: V.P.# 254 STACKED FIRST HALF DUE TO HOUSE.
17	SKIP	157 - 252	34						
18	SKIP	158 - 253	35						
19	SKIP	159 - 254	36						
20	SKIP	160 - 255	37						
21	SKIP	161 - 256	38						
22	SKIP	162 - 257	39						
23	SKIP	163 - 258	40						
24	SKIP	164 - 259	41						V.P.s # 255-263 SKIPPED DUE TO HOUSES.
25	SKIP	165 - 260	42						

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS-10 SEG B .MPX-121
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SWEEP FREQUENCY 8-40 Hz. / 22 SEC.	SWEEP PATTERN CODE #4163	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN 1111122222221111 CODE #2125
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 3-4100 1-4900	TYPE GEOPHONE ETL-EV22B	FREQUENCY 7.5 Hz.
STATION INTERVAL 330'		LINE DIR. 1 TO 24 N → S		

REMARKS 417.5 SAMPLE RATE 1/2 SEC. REC. LN.	OBSERVER J.O. KRAMER/KROL	PARTY MGR.
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OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

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10

CLIENT COCORP	AREA MINN LINE #1	STATE MINN	COUNTY OTTER TAIL	DATE 6-4-79
CREW NO. 6834	TERRAIN PAVED ROAD	WEATHER CLEAR		LINE NO. 1

REC.NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL.NO.	FILTER		REMARKS
							LOCUT	60 ~ 200 Hz	
1	SKIP 264	166 - 261	43	4		398	OUT	IN 50%	V.P.s #264-265 SKIPPED DUE TO HOUSE'S
2	SKIP 265	167 - 262	44						
3	084 266	168 - 263	45						
4									FINISHED FOR THE DAY
5									
6									
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TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS-10 SEGB
SWEEP FREQUENCY 8-40 Hz / 22 SEC.	SWEEP PATTERN CODE # 4163	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN 1111222222221111	CODE #2125
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 3-41100 1-4900	TYPE GEOPHONE ETL-EV22B	FREQUENCY 7.5 Hz.	STATION INTERVAL 330'
REMARKS 4 M.S. SAMPLE RATE		42. SEC. REC. LN		OBSERVER J.O. KRAMER	LINE DIR. 1 TO 24 N → S
				PARTY MGR.	

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Petty-Ray Geophysical
Division
Geosource Inc.**

CLIENT COCORP	AREA Minn Line #1	STATE Minn	COUNTY Otter Tail	DATE 6-5-79
CREW NO. 6834	TERRAIN Paved Road	WEATHER Clear - WINDY	LINE NO. 1	

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	F L T E R		REMARKS
							LOCUT	60 ~	
1 933	Pulse	1 - 6sec				398	Out	IN	Recorder Set-Up Between sta 224-225
934-935	EINT	2 - "							LINECROSSES Highway #10 AT STA 192+193 HEAVY TRAFFIC.
936-939	DRD	4 - "							LINECROSSES Highway #29 AT STA #208+209 HEAVY TRAFFIC.
953-954	Sum Test	2 - "							
960-961	NRJ	2 - "							
6 932	Similarity	1-22 sec.		4					50%
7 085	Windstrips	1-6 sec							Checking Line
8 086	267	169-264	17	4					70% 1-96 CORRELATION MADE ON FILE # 086
9 087	268	170 - 265	18						FILE #087 Made on first half Due to house.
10 SKIP	269	171 - 266	19						V.P.'s 269-270 SKIPS due to houses.
11 SKIP	270	172 - 267	20						
12 088	271	173 - 268	21			398			FILE #088 Made on last half due to house: E.O.T. #398
13 089	272	174 - 269	22			399			B.O.T. #399 FILE #900-10SEC. ALLONE'S.
14 090	273	175 - 270	23						
15 SKIP	274	176 - 271	24						
16 SKIP	275	177 - 272	25						V.P.'s #274+275 SKIPPED DUE TO HOUSE'S.
17 091	276	178 - 273	26						
18 092	277	179 - 274	27						
19 093	278	180 - 275	28						
20 094	279	181 - 276	29						50% V.P. #279 STACKED ON FIRST HALF DUE TO HOUSE. DRIVES SET AT 50%
21 SKIP	280	182 - 277	30						
22 SKIP	281	183 - 278	31						
23 SKIP	282	184 - 279	32						V.P.'s 280-282 SKIPPED DUE TO HOUSE'S.
24 095	283	185 - 280	33			399			E.O.T. #399
25 096	284	186 - 281	34			400			70% B.O.T. #400 FILE #900-10SEC. ALLONE'S.

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS-10 Sec B
SWEEP FREQUENCY 8-40 Hz / 22 sec.	SWEEP PATTERN CODE # 4163	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN 111122222221111	CODE #2125
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR (3) V-1100 (1) V-900	TYPE GEOPHONE ETL-EV22B	FREQUENCY 7.5 Hz	STATION INTERVAL 330'
REMARKS 4msec sample rate 42 sec. record length	OBSERVER KRAMER / KROL	PARTY MGR.			

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical
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12

CLIENT CDCORP	AREA MINN LINE #1	STATE MINN	COUNTY OTTER TAIL	DATE 6-5-79
CREW NO. 6834	TERRAIN PAVED ROAD COUNTS HIWAY	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 ~	70%		
1	097	285	187 - 282	35	4		400	OUT	IN	70%	
2	098	286	188 - 283	36							
3	099	287	189 - 284	37							WIND PICKING UP.
4	100	288	190 - 285	38							
5	101	289	191 - 286	39							
6	102	290	192 - 287	40			400			50%	TURNED DRIVES DOWN TO 50% FOR HOUSE. STANDING BY FOR TRAIN E. O.T.#400
7	SKIP	291	193 - 288	41			401				BOT.#401; FILE#900-10 SEC. ALONE'S; FILE#103 6 SEC. WIND STRIP.
8	103	292	194 - 289	42							V.P.#291 SKIPPED DUE TO HOUSE. 1-96 CORRELATION MADE ON FILE#104
9	105	293	195 - 290	43							STANDING BY FOR TRAIN. 3 RAW SWEEPS MADE ON FILE#105 FOR QUALITY CONTROL + DR. KAUFMANN
10	106	294	196 - 291	44							V.P.#294 STACKED ON FIRST HALF DUE TO HOUSE.
11	SKIP	295	197 - 292	45							V.P.#295 SKIPPED DUE TO HOUSE.
12	SKIP	296	198 - 293	46							V.P.#296 " " " "
13	107	297	199 - 294	47							V.P.#297 STACKED ON FIRST HALF DUE TO HOUSE.
14	SKIP	298	200 - 295	48							V.P.#298 SKIPPED DUE TO HOUSE.
15	SKIP	299	201 - 296	49							RECORDER MOVE.
16	SKIP	300	202 - 297	-							V.P.s #298-301 SKIPPED DUE TO HOUSE'S
17	SKIP	301	203 - 298	-							
18	108	302	204 - 299	16						70%	RECORDER SET UP BETWEEN SEAS 260 + 261.
19	109	303	205 - 300	17							
20	110	304	206 - 301	18			401				E.O.T.#401
21											
22											FINISHED FOR THE DAY
23											
24											
25											

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. NDS 10 # SEG 13
SWEEP FREQUENCY 8-40 Hz. / 22 SEC.	SWEEP PATTERN CODE # 4163	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN 1111122222221111	CODE # 2125
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 3-9100 1-9900	TYPE GEOPHONE ETL-EV213	FREQUENCY 7.5 Hz.	STATION INTERVAL 330'
REMARKS 4 M. SEC. SAMPLE RATE	4/2 SEC. RECORD LENGTH	OBSERVER I.S.O.	KRAMER/KROL	PARTY MGR.	LINE DIR. 1 TO 24 N → S

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical
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Geosource Inc.

13

CLIENT COCORP	AREA MINN LINE #1	STATE MINN	COUNTY OTTER TAIL	DATE 6-6-79
CREW NO. 6834	TERRAIN PAVED ROAD COUNTY ROAD	WEATHER CLEAR-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 ~ DRIVE	
1	PULSE	1 - 20 SEC				402	OUT	IN	B.O.T. #402 FILE #900-10SEC. ALONE'S
234-935	EINT	2 - "							RECORDER SET UP BETWEEN STA'S 273 & 274
236-939	DRD	4 - "							
953-954	SUM TEST	2 - "							
960-961	NR5	2 - "							
6	932	Similarity		4					50%
7	111	WIND STRIP							Checking LINE.
8	112	305	207 - 302	6	4				70% 1-96 CORRELATION MADE ON FILE #112
9	113	306	208 - 303	7					50% DRIVES TURNED TO 50% FOR HOUSE
10	SKIP	307	209 - 304	8					V.P.S # 307 + 308 SKIPPED DUE TO HOUSES.
11	SKIP	308	210 - 305	9					
12	114	309	211 - 306	10					
13	115	310	212 - 307	11					70%
14	116	311	213 - 308	12		402			E.O.T #402
15	117	312	214 - 309	13		403			B.O.T #403 FILE #900-10SEC. ALONE'S.
16	118	313	215 - 310	14					
17	119	314	216 - 311	15					
18	120	315	217 - 312	16					
19	121	316	218 - 313	17					
20	122	317	219 - 314	18					
21	123	319	221 - 316	20		403			E.O.T #403
22	124	321	223 - 318	22		404			B.O.T #404 FILE #900-10SEC. ALONE'S.
23	125	323	225 - 320	24					STA # 320 + 321 LINE OFFSET 1 MILE TO THE EAST.
24	126	325	227 - 322	26					
25	127	327	229 - 324	28					

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS-10-SECTB.
SWEEP FREQUENCY 8-40 Hz / 22 SEC	SWEEP PATTERN CODE #4163	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN 1111122222221111	CODE # 2125
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 3-41100 1-4900	TYPE GEOPHONE ETL-FV22B	FREQUENCY 7.5 Hz.	STATION INTERVAL 330'
REMARKS 1/2 MSEC SAMPLE RATE 42 SEC RECORD LENGTH		OBSERVER SIMMONS/KRAMER		PARTY MGR.	

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical
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Geosource Inc.

14

CLIENT CDCORP	AREA MINN LINE #1	STATE MINN	COUNTY OTTER TAIL	DATE 6-6-79
CREW NO. 6834	TERRAIN PAVED COUNTY ROAD	WEATHER CLEAR		LINE NO. 1

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER			REMARKS	
							LOCUT	60 ~	% DRIVE		
1	128	329	231 - 326	30	4		404	OUT	IN	70%	
2	129	331	233 - 328	32							RAW SWEEP MADE ON FILE #129
3	130	333	235 - 330	34			404				E.O.T #404 WIND PICKING UP!
4	132	335	237 - 332	36			405				B.O.T #405; FILE #900-10SEC. ALLONE'S; FILE #131 WIND STRIP
5	133	337	239 - 334	38							1-96 CORRELATION MADE ON FILE #133
6	134	339	241 - 336	40							
7	135	341	243 - 338	42							
8	136	343	245 - 340	44							
9	137	345	247 - 342	46							
10	138	347	249 - 344	48			405				RECORDER MOVE: E.O.T #405
11	139	349	251 - 346	34			406				RECORDER SETUP BETWEEN STA 289+290; B.O.T #406; FILE #900-10SEC. ALLONE'S
12	SKIP	351	253 - 348	36							V.P. #351 SKIPPED DUE TO HOUSE.
13	140	353	255 - 350	38							V.P. #353 STACKED ON LAST HALF DUE TO HOUSE.
14	141	355	257 - 352	40							
15	142	357	259 - 354	42							
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. MDS-10 SEGB
SWEEP FREQUENCY 8-40 Hz / 2.2 SEC.	SWEEP PATTERN CODE #4163	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN 1111122222221111	CODE # 2125
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 3-41100 1-4900	TYPE GEOPHONE ETL-EV22B	FREQUENCY 7.5 Hz.	STATION INTERVAL 330'
REMARKS				OBSERVER SIMMONS / KRAMER	PARTY MGR.

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical
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CLIENT COCORP	AREA MINN. LINE #1	STATE MINN.	COUNTY OTTER TAIL	DATE 6-7-79
CREW NO. 6834	TERRAIN PAVED ROAD & COUNTY ROAD	WEATHER OVERCAST		LINE NO. 1

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.				406	Out	TN	RECORDER SET UP BETWEEN STA'S 320 + 321
2	934 EINI	2 - " "							LINE CROSS HWY #210 BETWEEN STA'S 336 + 337
3	935 DRD	4 - " "							
4	936 SUM TEST	2 - " "							
5	937 NRI TEST	2 - " "							
6	932 Similarity	1 - 22 SEC.		4					50%
7	143 Wind Strip	1 - 6 SEC.							CHECKING LINE
8	SKIP 359	261 - 356							70% V.P.# 359 SKIPPED DUE TO HOUSE.
9	144 361	263 - 358	15			406			1-96 CORRELATION MADE ON FILE #144 E.O.T.#406
10	145 362	264 - 359	16			407			B.O.T.#407 FILE #900-10SEC. ALONE'S.
11	146 363	265 - 360	17						
12	147 365	267 - 362	19						
13	148 367	269 - 364	21						STA # 368 - 369 LINE OFFSET 1340' TO THE EAST.
14	149 369	271 - 366	23						V.P.# 369 STACKED ON LAST HALF DUE TO TRIALER HOUSE.
15	150 371	273 - 368	25						
16	151 373	275 - 370	27			407			E.O.T.#407
17	SKIP 375	277 - 372	29			408			B.O.T.#408 FILE #900-10SEC. ALONE'S.
18	152 376	278 - 373	30						
19	153 377	279 - 374	31						
20	154 379	281 - 376	33						
21	155 381	283 - 378	35						
22	156 383	285 - 380	37						
23	157 385	287 - 382	39						V.P.# 385 STACKED ON FIRST HALF DUE TO HOUSE.
24	158 387	289 - 384	41			408			50% V.P.# 387 STACKED ON LAST HALF DUE TO HOUSE. DRIVES TURNED TO 50% E.O.T.#408
25	160 389	291 - 386	43			409			B.O.T.#409 FILE #900-10SEC. ALONE'S. FILE #159 WIND STRIP 6 SEC.

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS-10 SEGB
SWEEP FREQUENCY 8-40 Hz / 22 SEC	SWEEP PATTERN CODE # 4163	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN 111122222221111 (CODE # 2125)	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 3-41100 1-4900	TYPE GEOPHONE ETL-EV22B	FREQUENCY 75 Hz.	STATION INTERVAL 330'
REMARKS 1/4 M. SEC. SAMPLE RATE 4/2 SEC. RECORD LENGTH.		OBSERVER / TO SIMMONS / KRAMER		PARTY MGR.	

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical
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CLIENT COCORP	AREA MINN LINE #1	STATE MINN	COUNTY OTTER TAIL	DATE 6-7-79
CREW NO. 6834	TERRAIN PAVED ROAD	WEATHER OVERCAST - Light RAIN		LINE NO. 1

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER			RE MARKS
							LOCUT	60 ~	70 ~	
1	161	293 - 388	45	4		409	OUT	IN	70%	1-96 CORRELATION MADE ON FILE #161
2	SKIP	393	295 - 390	47						V.P.# 393 SKIPPED DUE TO HOUSE.
3	162	395	297 - 392	49						RECORDER MOVE.
4	163	397	299 - 394	27						RECORDER SET UP BETWEEN STAS 344 + 345.
5	164	399	301 - 396	29						RAW SWEEP MADE ON FILE #164
6	165	401	303 - 398	31						
7	166	403	305 - 400	33		409				E.D.T.#409
8	167	405	307 - 402	35		410				B.O.T.#410. FILE #900-10 SEC. ALLOW'S.
9	168	406	308 - 403	36						V.P.#406 STACKED ON FIRST HALF DUE TO HOUSE
10	SKIP	407	309 - 404	37						V.P.#407 SKIPPED DUE TO HOUSE.
11	169	409	311 - 406	39						V.P.#409 STACKED ON LAST HALF DUE TO HOUSE.
12										
13										FINISHED FOR THE DAY
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. MDS-10 SEGB
SWEEP FREQUENCY 8-40 Hz / 22 SEC.	SWEEP PATTERN CODE #4163	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN 111122222221111	CODE # 2125
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 3-41100 1-4900	TYPE GEOPHONE ETL-EV22B	FREQUENCY 7.5 Hz.	STATION INTERVAL 330'
REMARKS 4MSEC SAMPLE RATE		42 SEC. RECORD LENGTH.		OBSERVER/J.O. SIMMONS/KRAMER	PARTY MGR.

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical
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Geosource Inc.

17

CLIENT **COCORP** AREA **MINN. LINE #1** STATE **MINN.** COUNTY **OTTER TAIL** DATE **6-8-79**
 CREW NO. **6834** TERRAIN **PAVED ROADS & COUNTY ROADS** WEATHER **CLEAR** LINE NO. **1**

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				410	OUT	IN	RECORDER SETUP BETWEEN STA'S 384+385
2	934 ELN	2- "							
3	936 DRD	4- "							
4	934 SUM IEST	2- "							
5	960 N.H. IEST	2- "							
6	932 SIMILARIZU	1-2.2 SEC		4					50%
7	170 WIND STRIP	1-6 SEC							CHECKING LINE
8	171 411	313-408	1	4		410			70% 196 CORRELATION MADE ON FILE #171 E.O.T #410
9	172 413	315-410	3			411			50% B.O.T #411 FILE #900 - 1.0 SEC. ALONE'S DRIVE TURNED TO 6070 FOR HOUSE.
10	173 415	317-412	5						70%
11	174 417	319-414	7						
12	175 419	321-416	9						
13	176 421	323-418	11						
14	SKIP 423	325-420	13						VP #423 SKIPPED DUE TO HOUSE.
15	177 425	327-422	15						
16	178 427	329-424	17			411			E.O.T #411
17	179 428	331-426	19			412			B.O.T #412 FILE #900 - 1.0 SEC. ALONE'S.
18	180 431	333-428	21						
19	181 432	334-429	22						
20	SKIP 433	335-430	23						VP #433 SKIPPED DUE TO HOUSE.
21	SKIP 434	336-431	24						
22	SKIP 435	337-432	25						VP'S #433-435 SKIPPED DUE TO HOUSE.
23	182 436	338-433	26						
24	183 437	339-434	27						RECORDER MOVE
25	184 439	341-436	28						RECORDER SET UP BETWEEN STA' 410+411

TOTAL SETUPS _____ TOTAL SWEEPS _____ TOTAL COVERAGE _____ TOTAL FIELD TIME _____ DRIVING TIME _____ SYSTEM NO. **MDS-10 SEGB**

SWEEP FREQUENCY **8-40 Hz. / 2.2 SEC** SWEEP PATTERN **CODE # 4163** SWEEPS PER PATTERN **16** SWEEP PATTERNS PER SETUP **1** PATCH PATTERN **111122222221111 (CODE # 2125)**

GEOPHONES PER PATCH **24** NO. OF RECORDING PATCHES **96** TYPE VIBRATOR **3-41100'S 1-4900** TYPE GEOPHONE **ETL-EV22B** FREQUENCY **75 Hz.** STATION INTERVAL **330'** LINE DIR. **N. → S.**

REMARKS **4MS. SAMPLE RATE 4.2 SEC. RECORD LENGTH** OBSERVER/TO **SIMMONS/KRAMER** PARTY MGR. _____

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical
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CLIENT COCORP	AREA MINN LINE #1	STATE MINN	COUNTY OTTER TAIL	DATE 6-8-79
CREW NO. 6834	TERRAIN PAVED ROAD + COUNTY ROAD	WEATHER CLEAR		LINE NO. 1

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER			REMARKS
							LOCUT	60 ~	80 ~	
1	441	343 - 438	5	4		412	00L	IN	70%	1-96 CORRELATION MADE ON FILE #189 E.O.T. #412
2	443	345 - 440	7			413				B.O.T. #413 FILE #900-10 SEC. ALLOW'S, FILE #186 WIND STRIP.
3	445	347 - 442	9							
4	447	349 - 444	11							
5	449	351 - 446	13							
6	451	353 - 448	15							
7	452	354 - 449	16							RAW SWEEP MADE ON FILE #192
8	SKIP	355 - 450	17							
9	455	357 - 452	19			413			40%	DRIVES SET AT 40% FOR HOUSE E.O.T. #413.
10	SKIP	359 - 454	21			414				B.O.T. #414 FILE #900-10 SEC. ALLOW'S.
11										
12										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. MDS-10 SEG-B
SWEEP FREQUENCY 8-40HZ/22SEC.	SWEEP PATTERN CODE #4163	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP	PATCH PATTERN 1111122222221111	CODE #2125
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 3-1100 1-1900	TYPE GEOPHONE ETL-EV22B	FREQUENCY 7.5Hz	STATION INTERVAL 330'
REMARKS 4 m.s. SAMPLE RATE		42 SEC RECORD LENGTH		OBSERVER/J.O. SIMMONS/KRAMER	PARTY MGR.

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical
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19

CLIENT COCORP	AREA MINN. LINE #1	STATE MINN.	COUNTY OTTER TAIL	DATE 6-9-79
CREW NO. 6834	TERRAIN PAVED & COUNTY ROADS	WEATHER OVERCAST - COOL LIGHT RAIN	LINE NO. 1	

REC. NO.	SWEEP POINT	PATCH LOCATIONS	CDP SW.	NO VIB	AMP GAIN	TAPE RL. NO.	FILTER			REMARKS
							LOCUT	60 ~	70 ~	
1	933 PULSE	1 - 6 SEC				414	OUT	IN		RECORDER SET UP BETWEEN STA'S 424 + 425
234	423 FINI	2 - " "								
936	439 DRD	4 - " "								
937	454 SUM IEST	2 - " "								
940	461 NRI IEST	2 - " "								
6	932 Similarity	1 - 22 SEC		5					50%	
7	194 WIND STRIP	1 - 6 SEC								CHECKING LINE
8	195 458	360 - 455	8	5					50%	1-96 CORRELATION MADE # FILE 195. DRIVES SET AT 50% FOR HOUSE.
9	196 459	361 - 456	9						70%	
10	197 461	363 - 458	11							
11	198 463	365 - 460	13							
12	199 465	367 - 462	15			414				E.O.T #14 STORM MOVING IN.
13	200 467	369 - 464	17			415				B.O.T #5 FILE #900 - 20 SEC. ALLOW'S: STARTING TO RAIN!
14	201 469	371 - 468	19							
15	202 471	373 - 468	21							
16	203 473	375 - 470	23							
17	204 475	377 - 472	25							
18	205 476	378 - 473	26						40%	DRIVES TURNED TO 40% FOR HOUSE.
19	SKIP 477	379 - 474	27							V.P. #477 SKIPPED DUE TO HOUSE.
20	206 479	380 - 476	29			415			70%	V.P. #479 STACKED ON LAST HALF DUE TO HOUSE. E.O.T #15
21										FINISHED FOR THE DAY DUE TO RAIN + LEAKAGE
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 CODE # 5163	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN 111122222221111 (CODE # 2125)	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-91100 1-4900	TYPE GEOPHONE 5TL - EV 22B	FREQUENCY 2.5 Hz	STATION INTERVAL 330'
REMARKS 4 m.s. SAMPLE RATE 42. SEC. RECORD LENGTH	OBSERVER / TO SIMMONS / KRAMER		PARTY MGR.		

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical
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20

CLIENT COCORP	AREA MINN. LINE #1	STATE MINN.	COUNTY OTTER TAIL	DATE 6-11-79
CREW NO. 6834	TERRAIN PAVED & COUNTY ROADS	WEATHER CLEAR	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	933 PULSE	1 - 6 SEC				416	Out	IN	B.O.T # 416. RECORDER SET UP BETWEEN STA'S 423 & 425
2	934 EINI	2 - " "							FILE # 900-10 SEC. ALONE'S.
3	932-939 DRD	4 - " "							LINE EXTREMELY WET DUE TO RAIN OVER WEEK-END.
4	934-951 Sum IEST	2 - " "							
5	960-961 NRT IEST	2 - " "							
6	933 Similarity	1 - 22 SEC		5					50%
7	207 Wind Strip	1 - 6 SEC							CHECKING LINE
8	208 481	383-478	31	5					70% 1-96 CORRELATION MADE ON FILE # 208
9	209 483	385-480	33						
10	210 485	387-482	35						
11	211 487	389-484	37						
12	212 489	391-486	39			416			E.O.T. # 416
13	214 491	393-488	41			417			B.O.T # 417 FILE # 900-10 SEC ALONE'S FILE # 213 WIND STRIP:
14	215 493	395-490	43						1-96 CORRELATION MADE # 215. 3 RAW SWEEPS MADE ON FILE # 215
15	216 495	397-492	45						
16	217 497	399-494	47			417			E.O.T. # 417
17									PICKING UP LINE # 1 LAYING OUT LINE # 2
18									E.O.T. # 1 FINISHED FOR THE DAY
19									
20									
21									
22									
23									
24									
25									

TOTAL SETUPS	TOTAL SWEEPS	TOTAL COVERAGE	TOTAL FIELD TIME	DRIVING TIME	SYSTEM NO. MDS-10 SEGB
SWEEP FREQUENCY 8-40 HZ	SWEEP PATTERN CODE # 5163	SWEEPS PER PATTERN 16	SWEEP PATTERNS PER SETUP 1	PATCH PATTERN 1111122222221111 (CODE # 2125)	
GEOPHONES PER PATCH 24	NO. OF RECORDING PATCHES 96	TYPE VIBRATOR 4-1100 1-900	TYPE GEOPHONE ETH-EV223	FREQUENCY ?5 HZ	STATION INTERVAL 330'
REMARKS 4ms SAMPLE RATE 42 SEC RECORD LENGTH	OBSERVER/JO SIMMONS/KRAMER		PARTY MGR.		