

Enertec Geophysical Services Ltd.

Observer Report Cover Sheet

Program:Abitibi-Grenville '93

Line 44

Program Information

Client: Lithoprobe Geological Survey	Crew Number: 184-910
Approval No.:	Base: Chelmsford, Ontario
Date: October 21, 1993	Observer: R.Banks, B.Armstrong, H.Zanger
Crew Manager: J. Henry	

Source and Spread Parameters:

Source Type: Vibroseis
Source Array: Two vibrators over 12m. moving up 8m.
Source Interval: 20 metres
Sweep: 30-135 Hz., Linear, 500ms. taper, 4 sweeps, 12 seconds long

Instruments:

Type: MDS-18X	Shooting System: VCS V
Serial Number: 6214	Number of Channels: 420
Tape Format: SEG D 4 Byte	Record Length: 4 sec, Sample Rate: 2ms
Tape Density: 3480 BPI	Aux 1: Unused
Pre Amp Gain: 48dB	Aux 2: Pilot sweep unfiltered
Low Cut Filter: Out, High Cut Filter: 156 Hz.	Aux 3: Time Break
Notch Filter: Out	Aux 4: Pilot sweep unfiltered

Receiver Parameters:

Geophone Type: Mark L25	Geophone Spacing: 9 over 8 metres
Frequency: 30Hz.	Group Interval: 20 metres
Coil Resistance: 710 Ohms	Damping: 1.2 Kohms

Comments:

VP's past 324 were unobtainable due to a town. The line was started by doubling the source points using South and North halves, but upon client instruction, this was changed to 8 sums per VP, with a drag as noted above. Power lines are on the opposite side of the road to the geophones, and there was moderate to severe traffic throughout the night. The line was shot with all 420 traces live, and a 1 station gap was rolled along with the vibrators. Therefore, no near and far offsets are noted in the parameters above, as they differ with each VP. The group interval is 20m, trace ties as noted on Observer reports.

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Observer's Report

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 Date: 10/21/93

Sht Seq	VP	FFID	NO. VIBS	Tape	CH 1	Lo Gap	Hi Gap	Ch 400	Off Set	Skid Inline	Comments
1	111	1	2	418	101	110	112	521		N	BOL=101. Originally stacking VP's 4 sums first and last halves to get extra VP's for skips. Client instructed to change to 8 sums per VP instead. N=North Half, S=South Half, C=Center Note: Stns 455 & 456 are open - cement driveways Effective with file 003, VP's are 8 sums, 10m drag. First three files are 4 sums each.
2	112	2	2	418	101	111	113	521		S	
3	112	3	2	418	101	111	113	521		N	
4	113	4	2	418	101	112	114	521			
5	114	5	2	418	101	113	115	521			
6	115	6	2	418	101	114	116	521			
7	116	7	2	418	101	115	117	521			
8	117	8	2	418	101	116	118	521			
9	118	9	2	418	101	117	119	521			
10	119	10	2	418	101	118	120	521			
11	120	11	2	418	101	119	121	521			
12	121	12	2	418	101	120	122	521			
13	122	13	2	418	101	121	123	521			
14	123	14	2	418	101	122	124	521			
15	124	15	2	418	101	123	125	521			
16	125	16	2	418	101	124	126	521			
17	126	17	2	418	101	125	127	521			
18	127	18	2	418	101	126	128	521			
19	128	19	2	418	101	127	129	521			
20	129	20	2	418	101	128	130	521			
21	130	21	2	418	101	129	131	521			
22	131	22	2	418	101	130	132	521			
23	133	23	2	418	101	132	134	521		VP 132 skipped due to a culvert.	
24	134	24	2	418	101	133	135	521			
25	135	25	2	418	101	134	136	521			
26	136	26	2	418	101	135	137	521			
27	137	27	2	418	101	136	138	521			
28	138	28	2	418	101	137	139	521			
29	139	29	2	418	101	138	140	521			
30	140	30	2	418	101	139	141	521			
31	141	31	2	418	101	140	142	521			
32	142	32	2	418	101	141	143	521			
33	143	33	2	418	101	142	144	521			
34	144	34	2	418	101	143	145	521			
35	145	35	2	418	101	144	146	521			
36	146	36	2	418	101	145	147	521			
37	147	37	2	418	101	146	148	521			
38	148	38	2	418	101	147	149	521			
39	149	39	2	418	101	148	150	521			
40	150	40	2	418	101	149	151	521			
41	151	41	2	418	101	150	152	521			
42	152	42	2	418	101	151	153	521			
43	153	43	2	418	101	152	154	521			
44	154	44	2	418	101	153	155	521			
45	161	45	2	418	101	160	162	521		Skip due to large culverts	

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Sht Seq	VP	FFID	NO. VIBS	Tape	CH 1	Lo Gap	Hi Gap	Ch 400	Off Set	Skid Inline	Comments
46	162	46	2	418	101	161	163	521			Light rain starting to fall.
47	163	47	2	418	101	162	164	521			
48	164	48	2	418	101	163	165	521			
49	165	49	2	418	101	164	166	521			End of tape 418
50	166	50	2	419	101	165	167	521			Start of tape 419
51	167	51	2	419	101	166	168	521			
52	168	52	2	419	101	167	169	521			
53	169	53	2	419	101	168	170	521			
54	170	54	2	419	101	169	171	521			
55	171	55	2	419	101	170	172	521			
56	172	56	2	419	101	171	173	521			
57	173	57	2	419	101	172	174	521			
58	174	58	2	419	101	173	175	521			
59	175	59	2	419	101	174	176	521			
60	176	60	2	419	101	175	177	521			
61	177	61	2	419	101	176	178	521			
62	178	62	2	419	101	177	179	521			
63	179	63	2	419	101	178	180	521			
64	180	64	2	419	101	179	181	521			
65	181	65	2	419	101	180	182	521			
66	182	66	2	419	101	181	183	521			
67	183	67	2	419	101	182	184	521			
68	184	68	2	419	101	183	185	521			
69	185	69	2	419	101	184	186	521			
70	186	70	2	419	101	185	187	521			
71	187	71	2	419	101	186	188	521			
72	188	72	2	419	101	187	189	521			
73	189	73	2	419	101	188	190	521			
74	190	74	2	419	101	189	191	521			
75	191	75	2	419	101	190	192	521			
76	192	76	2	419	101	191	193	521			Skip due to dwellings.
77	200	77	2	419	101	199	201	521			
78	201	78	2	419	101	200	202	521			
79	202	79	2	419	101	201	203	521			
80	203	80	2	419	101	202	204	521			
81	204	81	2	419	101	203	205	521			
82	205	82	2	419	101	204	206	521			
83	206	83	2	419	101	205	207	521			
84	207	84	2	419	101	206	208	521			
85	208	85	2	419	101	207	209	521			
86	209	86	2	419	101	208	210	521			
87	210	87	2	419	101	209	211	521			
88	211	88	2	419	101	210	212	521			
89	212	89	2	419	101	211	213	521			
90	213	90	2	419	101	212	214	521			

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Sht Seq	VP	FFID	NO. VIBS	Tape	CH 1	Lo Gap	Hi Gap	Ch 400	Off Set	Skid Inline	Comments
91	214	91	2	419	101	213	215	521			
92	215	92	2	419	101	214	216	521			
93	216	93	2	419	101	215	217	521			
94	217	94	2	419	101	216	218	521			
95	218	95	2	419	101	217	219	521			
96	219	96	2	419	101	218	220	521			VP 220 skipped due to a culvert
97	221	97	2	419	101	220	222	521			
98	222	98	2	419	101	221	223	521			End of tape 419
99	223	99	2	420	101	222	224	521			Start of tape 420
100	224	100	2	420	101	223	225	521			
101	225	101	2	420	101	224	226	521			
102	226	102	2	420	101	225	227	521			
103	227	103	2	420	101	226	228	521			
104	228	104	2	420	101	227	229	521			
105	229	105	2	420	101	228	230	521			
106	230	106	2	420	101	229	231	521			
107	231	107	2	420	101	230	232	521			
108	232	108	2	420	101	231	233	521			
109	233	109	2	420	101	232	234	521			
110	234	110	2	420	101	233	235	521			
111	235	111	2	420	101	234	236	521			
112	236	112	2	420	101	235	237	521			
113	237	113	2	420	101	236	238	521			
114	238	114	2	420	101	237	239	521			
115	239	115	2	420	101	238	240	521			
116	240	116	2	420	101	239	241	521			
117	241	117	2	420	101	240	242	521			
118	242	118	2	420	101	241	243	521			
119	243	119	2	420	101	242	244	521			
120	244	120	2	420	101	243	245	521			
121	245	121	2	420	101	244	246	521			
122	246	122	2	420	101	245	247	521			
123	247	123	2	420	101	246	248	521			
124	248	124	2	420	101	247	249	521			
125	249	125	2	420	101	248	250	521			
126	250	126	2	420	101	249	251	521			
127	251	127	2	420	101	250	252	521			
128	252	128	2	420	101	251	253	521			
129	253	129	2	420	101	252	254	521			
130	254	130	2	420	101	253	255	521			
131	255	131	2	420	101	254	256	521			
132	256	132	2	420	101	255	257	521			
133	257	133	2	420	101	256	258	521			
134	258	134	2	420	101	257	259	521			
135	259	135	2	420	101	258	260	521			

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136	260	136	2	420	101	259	261	521			
137	261	137	2	420	101	260	262	521			
138	262	138	2	420	101	261	263	521			
139	263	139	2	420	101	262	264	521			
140	264	140	2	420	101	263	265	521			
141	265	141	2	420	101	264	266	521			
142	266	142	2	420	101	265	267	521			VP 267 skipped ->culvert
143	268	143	2	420	101	267	269	521			
144	269	144	2	420	101	268	270	521			
145	270	145	2	420	101	269	271	521			
146	271	146	2	420	101	270	272	521			
147	272	147	2	420	101	271	273	521			End of tape 420
148	273	148	2	421	101	272	274	521			Start of tape 421
149	274	149	2	421	101	273	275	521			
150	275	150	2	421	101	274	276	521			
151	276	151	2	421	101	275	277	521			
152	277	152	2	421	101	276	278	521			
153	278	153	2	421	101	277	279	521			
154	279	154	2	421	101	278	280	521			
155	280	155	2	421	101	279	281	521			
156	281	156	2	421	101	280	282	521			
157	282	157	2	421	101	281	283	521			Rain has subsided.
158	283	158	2	421	101	282	284	521			
159	284	159	2	421	101	283	285	521			
160	285	160	2	421	101	284	286	521			
161	286	161	2	421	101	285	287	521			
162	287	162	2	421	101	286	288	521			
163	288	163	2	421	101	287	289	521			
164	289	164	2	421	101	288	290	521			Note: traffic picking up.
165	290	165	2	421	101	289	291	521			
166	291	166	2	421	101	290	292	521			
167	292	167	2	421	101	291	293	521			
168	293	168	2	421	101	292	294	521			
169	294	169	2	421	101	293	295	521			
170	295	170	2	421	101	294	296	521			
171	296	171	2	421	101	295	297	521			
172	297	172	2	421	101	296	298	521			
173	298	173	2	421	101	297	299	521			VP 299 skipped ->culvert
174	300	174	2	421	101	299	301	521			
175	301	175	2	421	101	300	302	521			
176	302	176	2	421	101	301	303	521			
177	303	177	2	421	101	302	304	521			
178	304	178	2	421	101	303	305	521			
179	305	179	2	421	101	304	306	521			
180	306	180	2	421	101	305	307	521			

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Sht Seq	VP	FFID	NO. VIBS	Tape	CH I	Lo Gap	Hi Gap	Ch 400	Off Set	Skid Inline	Comments
181	307	181	2	421	101	306	308	521			
182	308	182	2	421	101	307	309	521			
183	309	183	2	421	101	308	310	521			
184	310	184	2	421	101	309	311	521			
185	311	185	2	421	101	310	312	521		C	VP 311 stacked on center (road intersection with traffic)
186	312	186	2	421	101	311	313	521			
187	313	187	2	421	101	312	314	521			
188	314	188	2	421	101	313	315	521			
189	315	189	2	421	101	314	316	521			VP 316 skipped -> gas pipeline
190	317	190	2	421	101	316	318	521			
191	318	191	2	421	101	317	319	521			
192	319	192	2	421	101	318	320	521			Note: Stations 325->521 (EOL) are NVP's
193	320	193	2	421	101	319	321	521			due to a town and other buildings.
194	321	194	2	421	101	320	322	521			Last VP is 324.
195	322	195	2	421	101	321	323	521			Wireline Sim on test tape 24
196	323	196	2	421	101	322	324	521			End of tape 421
197	324	197	2	422	101	323	325	521			Start of tape 422
											End of Line / End of Program / End of Day.