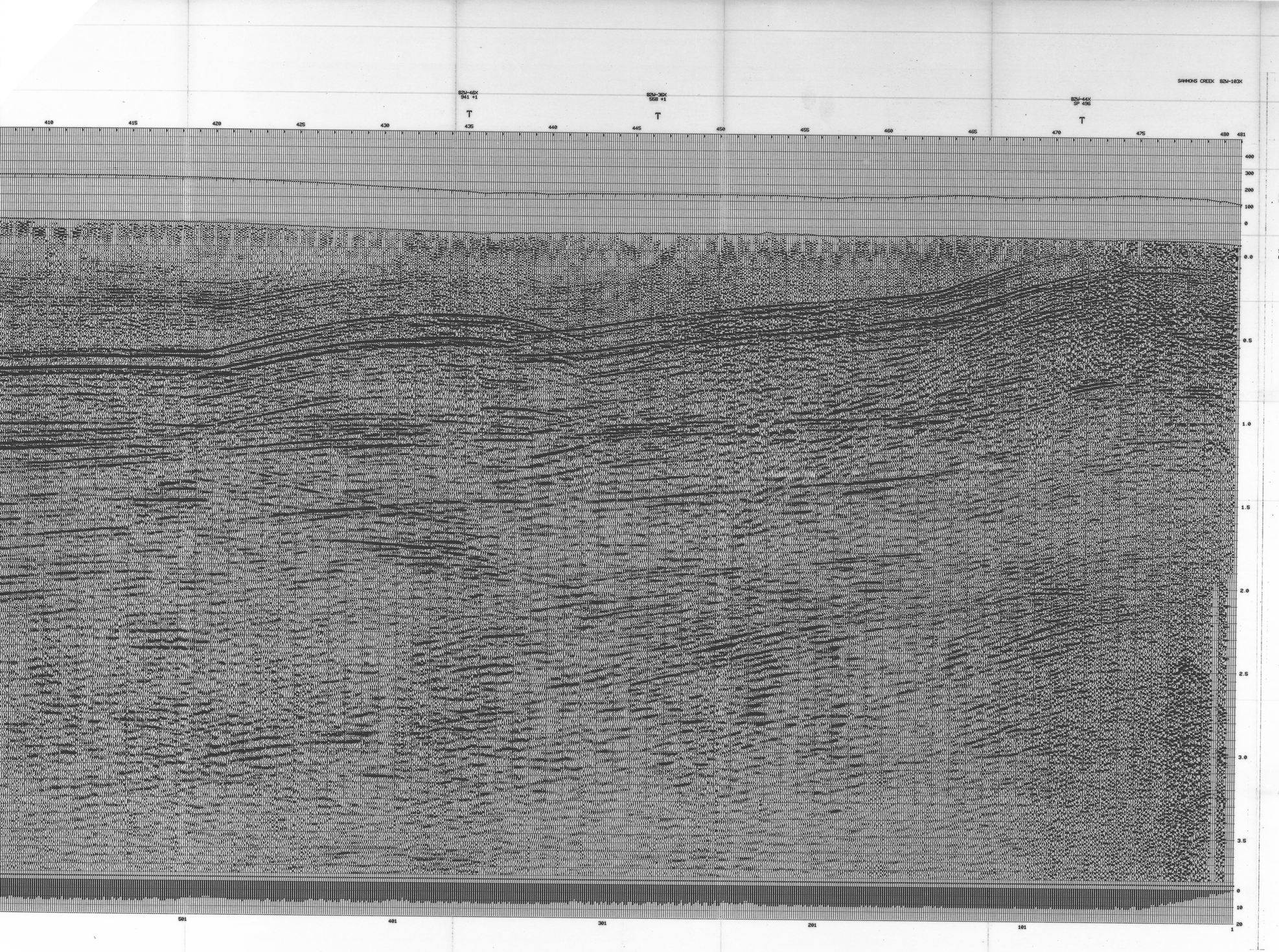


24 C-06-05-115

GEO-X SYSTEMS LTD.

CALGARY ALBERTA

LINE: 82-W-103X TYPE: S-NP
DIRECTION ——→ N.E.
PROJECT: SAMMON'S CREEK
LOCATION: DISTRICT OF MACKENZIE NTS 96E
CLIENT: PETRO-CANADA EXPLORATION INC.

FLAG

SURFACE ELEVATIONS

SHOT BY WESTERN GEOPHYSICAL, PTY. 362 DATE 3/82

SPREAD: 1584 m - 33m. x 33m. - 1584 m.
SOURCE: 2 kg at 18m.
RECEIVERS: GEOSPACE 20D, 10 Hz, 9 OVER 53 m.
SOURCE INTERVAL: 132 m GROUP INTERVAL: 33m.

SURFACE IN TIME

AMPLIFIERS: DFS V FIELD FILTER: 8-128 Hz NOTCH OUT
GAIN MODE: IFP TAPE FORMAT: SEG B

PROCESSED AT GEO-X DATE: 6/82

1 DIGITAL CONVERSION. SAMPLE RATE 2 ms.
2 AMPLITUDE RECOVERY Atn t

PREFILTER
3 DECONVOLUTION. TYPE SPIKING
OPERATOR LENGTH 60 ms. PREWHITENING 1%.
DESIGN GATE 400-2400 ms. SLOPING
4 STRUCTURAL CORRECTIONS
DATUM SEA LEVEL DATUM VELOCITY 3506 m/s.
PROCESSING DATUM +180 ms.
☒ ELEVATIONS ☒ WEATHERING ☒ DRIFT
10 ANALYSIS STATISTICAL SURFACE CONSISTENT STATICS
5 11 MOVEOUT (5) PRELIMINARY (11) FINAL
6 SCALING
7 12 STATICS (7) SURFACE STACK RESIDUAL
(12) CROSS CORRELATION
( )
8 WORK SECTION DISPLAY
9 TRACE KILLS
13 MUTE DISTANCE (m) 314 924 3168
TIME (ms.) 300 550-650 1700
14 GATHER FOLD 12
15 STACK STACK REEL
16 FILTER (16) 12/16-80/90 Hz, 0-2500 ms
( ) 12/16 50/60 Hz, 2500-4000 ms
17 ADDITIONAL PROCESSING
NEAR RAMP SCALING
TIME 0-130 250-1600, 2300, 3000-4000
SCALE 100, 120, 250
18 EQUALIZATION 450 2400ms

VELOCITY TABULATION FROM PROCESSING DATUM

SAMMON-S CREEK 82M-103X SP 469

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
0	2800	565.7 1584	2800	0	2800
48	2907	522.7 1584	2906	69	2906
112	3125	465.7 1584	3346	213	3186
236	3455	398.8 1584	3908	426	3596
361	4049	348.1 1584	4918	707	3924
664	4178	300.6 1584	4345	1372	4132
1012	4412	261.5 1584	4821	2223	4371
1294	5004	234.2 1584	5209	2948	4561
1523	5175	215.6 1584	5429	3630	4779
1827	5303	199.8 1584	5552	4519	5219
3500	5468	182.0 1584	5752	9467	5410

SAMMON-S CREEK 82M-103X SP 442

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
0	2800	565.7 1584	2800	0	2800
157	2903	481.9 1584	2953	231	2952
248	3044	451.0 1584	3119	367	3042
565	3576	368.1 1584	3746	1019	3351
1000	4134	313.8 1584	4116	1951	3929
1357	4362	276.9 1584	4514	2733	4236
1724	4642	246.8 1584	4828	3562	4388
1824	4812	236.2 1584	4962	3806	4249
2693	5426	206.6 1584	5457	5725	4709
2824	5536	198.8 1584	5542	6000	4797
3500	5600	192.3 1584	5599	6246	4972

SAMMON-S CREEK 82M-103X SP 434

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
0	2800	565.7 1584	2800	0	2800
152	2931	414.8 1584	2930	220	2900
253	3023	391.1 1584	3145	489	3030
326	3271	372.1 1584	3829	696	3346
707	3864	326.1 1584	4201	1782	3565
1003	3867	292.9 1584	4244	2590	3768
1252	4464	266.6 1584	4249	3271	4023
1681	4433	228.2 1584	4523	3571	4326
2190	4981	194.8 1584	5296	4088	4676
2658	5144	172.3 1584	5359	5108	4896
3500	5400	152.3 1584	5599	5234	5277

SAMMON-S CREEK 82M-103X SP 415

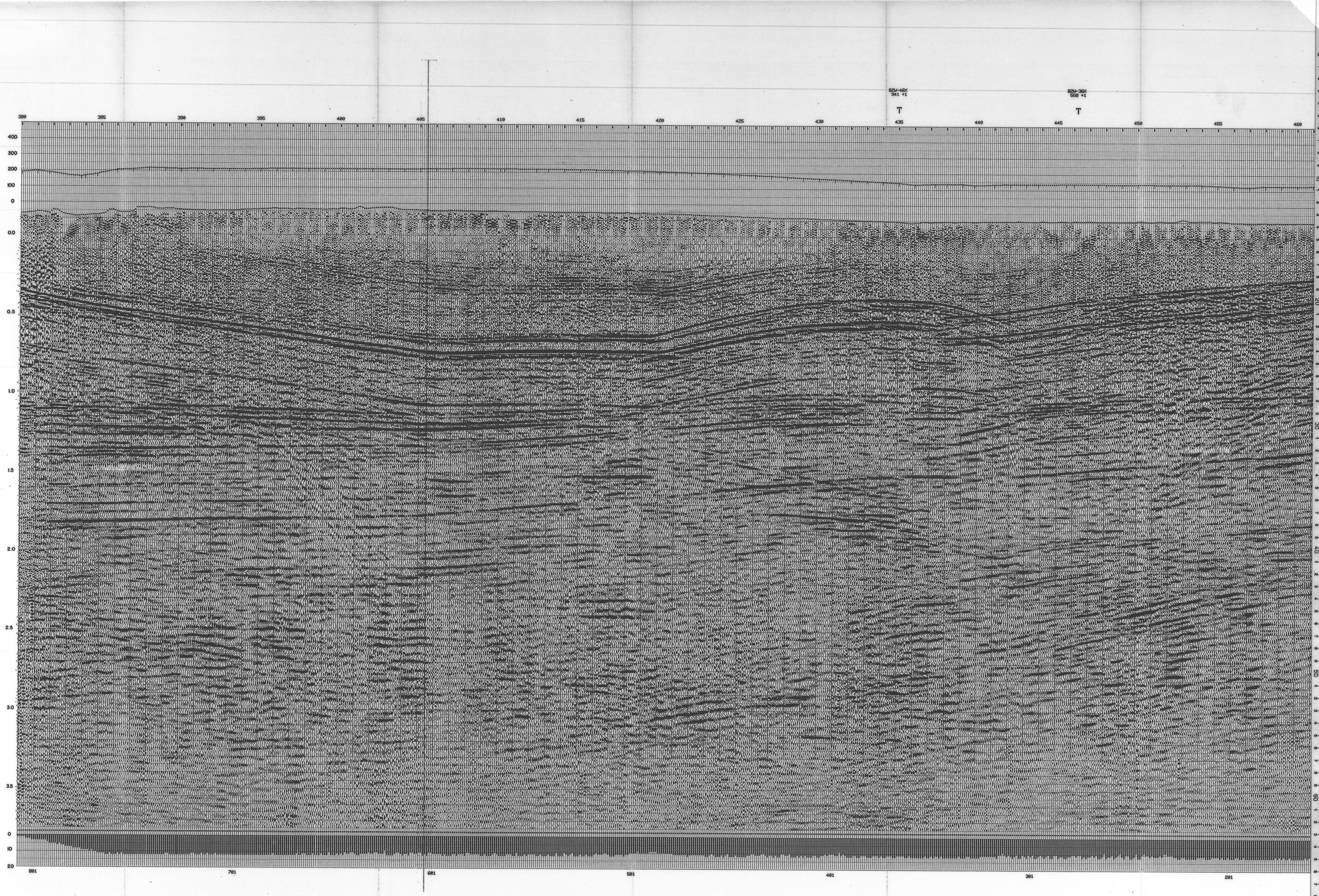
TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
99	2952	492.5 1584	2952	148	2952
369	3187	398.3 1584	3195	572	3194
499	3189	398.1 1584	3195	792	3176
799	3422	368.6 1584	3829	1369	3408
1273	3777	334.9 1584	4201	2181	3868
1199	4668	297.1 1584	6516	2663	4443
1439	4963	319.5 1584	5957	3257	4746
1849	5241	296.6 1584	5401	4590	4870
2149	5329	291.1 1584	5423	5409	5081
2699	5323	272.7 1584	5749	6466	5176
3500	5443	252.1 1584	5733	8036	5334

SAMMON-S CREEK 82M-103X SP 390

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
36	2800	565.7 1584	2800	51	2800
163	3073	518.9 1584	2961	231	2921
274	3229	492.1 1584	3138	411	3074
531	3399	465.8 1584	3374	898	3329
834	3611	446.1 1584	3629	1518	3488
974	4645	429.5 1584	4815	2171	4376
1000	4901	34.4 1584	5428	2277	4706
1814	4973	26.3 1584	5255	4569	4968
2246	5233	20.3 1584	5843	5745	5116
2630	5329	16.7 1584	5848	6868	5233
3500	5464	12.0 1584	5853	9414	5379

[redacted]

Ottawa, Ont. Canada K1G 3P5 Tel. (613) 731-9571 Telex: 053-3502 Cable: TERRA
PROJ. NO. 2 4 6 - 0 6 - 0 5 - 1 1 5
LINE NO. 8 2 - W - 1 0 3 X
PART NO. 1 OF 2 R.R. 8X



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LINE NO. 8 2 - W - 1 0 3 X

PART NO. 2 OF 2

R.R. 8X