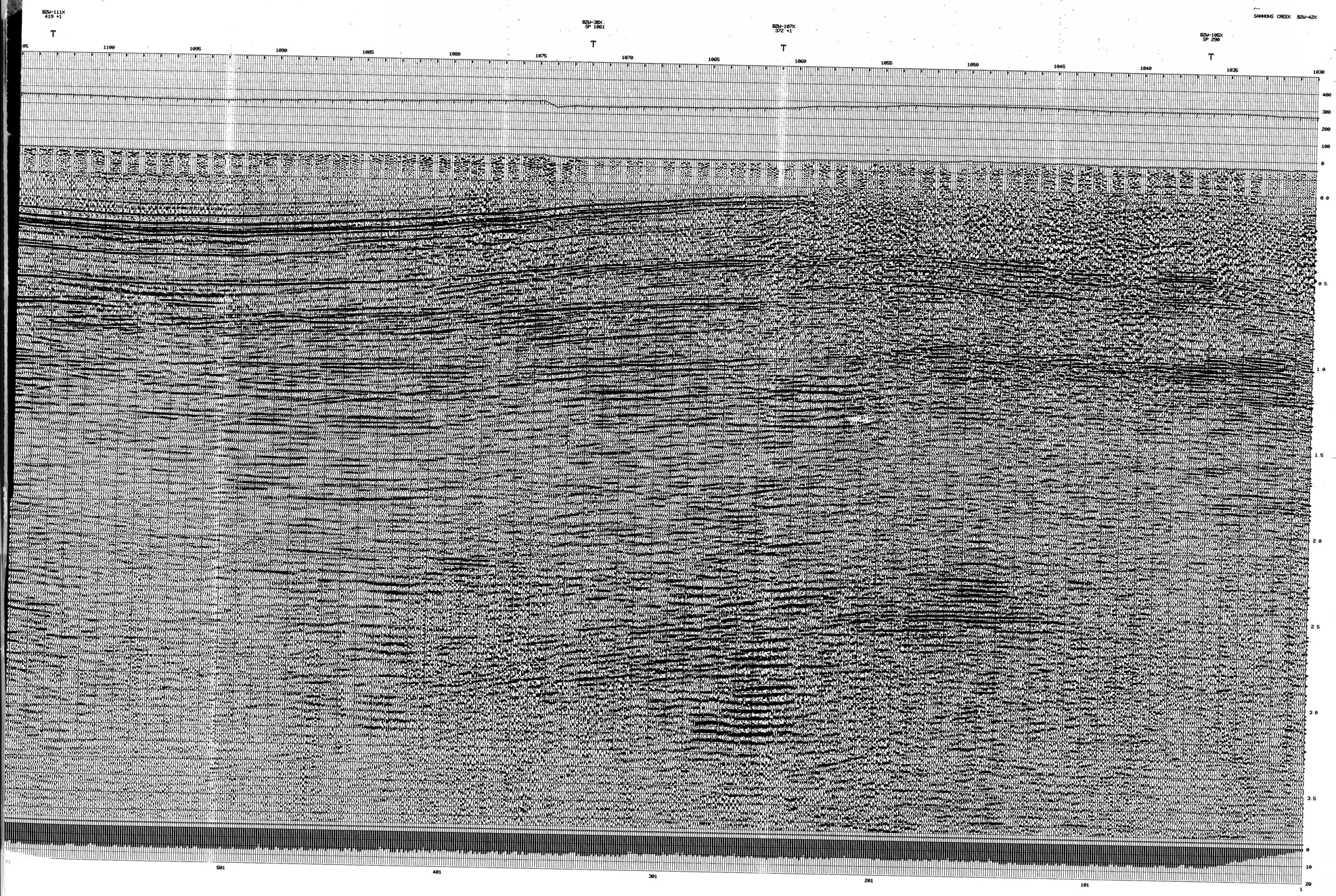


24 C-06-05-115

GEO-X SYSTEMS LTD.
CALGARY ALBERTA

LINE: 82-W-42X TYPE: S-NP
DIRECTION ——→ S.E.
PROJECT: SAMMON'S CREEK
LOCATION: DISTRICT OF MACKENZIE NTS 96E
CLIENT: PETRO-CANADA EXPLORATION INC.

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

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

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/sec
PROCESSING DATUM: -150 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
% VALUE 75, 100, 120, 250
18 EQUALIZATION 450 2400 ms

VELOCITY TABULATION FROM PROCESSING DATUM

SAMMON'S CREEK 82W-42X SP 1028

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
0	2300	565.7 1584		0	2300
159	3362	466.4 1584	3396	87	3396
258	3796	303.8 1584	3961	244	3795
339	4032	232.9 1584	4114	375	3967
429	4232	184.3 1584	4317	958	4469
525	4430	151.1 1584	4606	1589	5128
673	5430	99.0 1584	5607	2429	5298
1157	5299	36.0 1584	5192	3016	5213
1857	5999	24.0 1584	5192	4861	5262
2500	5900	17.8 1584	5573	6669	5292
3500	5300	12.7 1584	5312	8235	5271

SAMMON'S CREEK 82W-42X SP 1058

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
0	2300	565.7 1584	2300	0	2300
100	3333	388.7 1584	3332	166	3332
200	3436	305.6 1584	3534	343	3433
400	4231	147.9 1584	4898	833	4166
600	4434	103.6 1584	5172	1141	4567
800	5434	66.8 1584	7272	1694	5214
950	5653	49.8 1584	6148	2369	5434
1150	5870	38.0 1584	6206	3003	5691
1500	5670	28.4 1584	5588	4271	5648
2500	5367	16.5 1584	5368	5571	5486
3500	5300	12.7 1584	5743	6729	5216

SAMMON'S CREEK 82W-42X SP 1096

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
150	3036	292.9 1584	3036	227	3036
310	3200	274.1 1584	3346	495	3196
410	3396	248.3 1584	3962	707	3379
530	4029	193.8 1584	3968	1205	4117
1000	4218	65.4 1584	4368	1829	4428
1230	5943	34.8 1584	5178	2508	5016
1550	5730	24.4 1584	5523	3431	5261
1950	5695	19.7 1584	5529	4311	5563
2500	5612	15.9 1584	5582	5455	5561
3500	5388	12.3 1584	5782	6875	5595

SAMMON'S CREEK 82W-42X SP 1120

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
100	3030	495.0 1584	3030	150	3030
240	3177	313.3 1584	3169	381	3176
350	3314	246.8 1584	3272	551	3339
520	4214	183.6 1584	5095	1063	4890
700	4814	69.5 1584	5377	1799	4724
1000	5000	41.3 1584	5599	2362	4891
1540	5867	32.2 1584	5899	3533	4857
1950	4893	26.7 1584	5631	4267	4818
2500	5964	19.8 1584	5438	5267	4818
3500	5300	12.7 1584	5848	6148	4996

PROJ. NO. 2 0 0 - 0 0 - 0 5 - 0 1 8

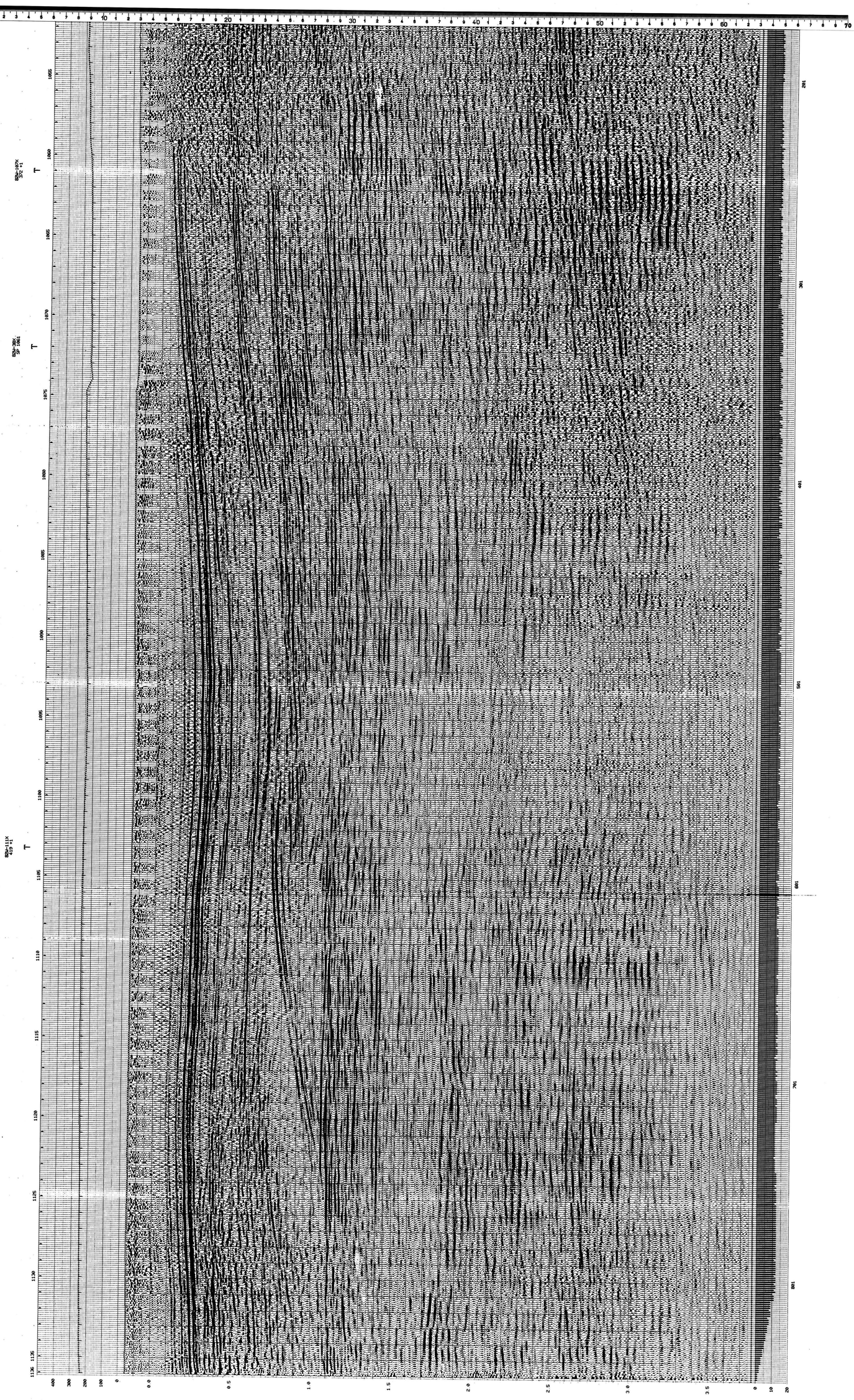
LINE NO. 8 2 - W - 4 2 X

PART NO. 1 OF 2

R.R. 8X

2060 Walkley Rd.
Ottawa, Ont.
Canada K1G 3P5
Tel. (613) 731-9571
Telex: 053-3602
Cable: TERRA

3-6-82

1080 Walkley Rd. 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 - 4 2 X PART NO. 2 OF 2 R.R. 6X