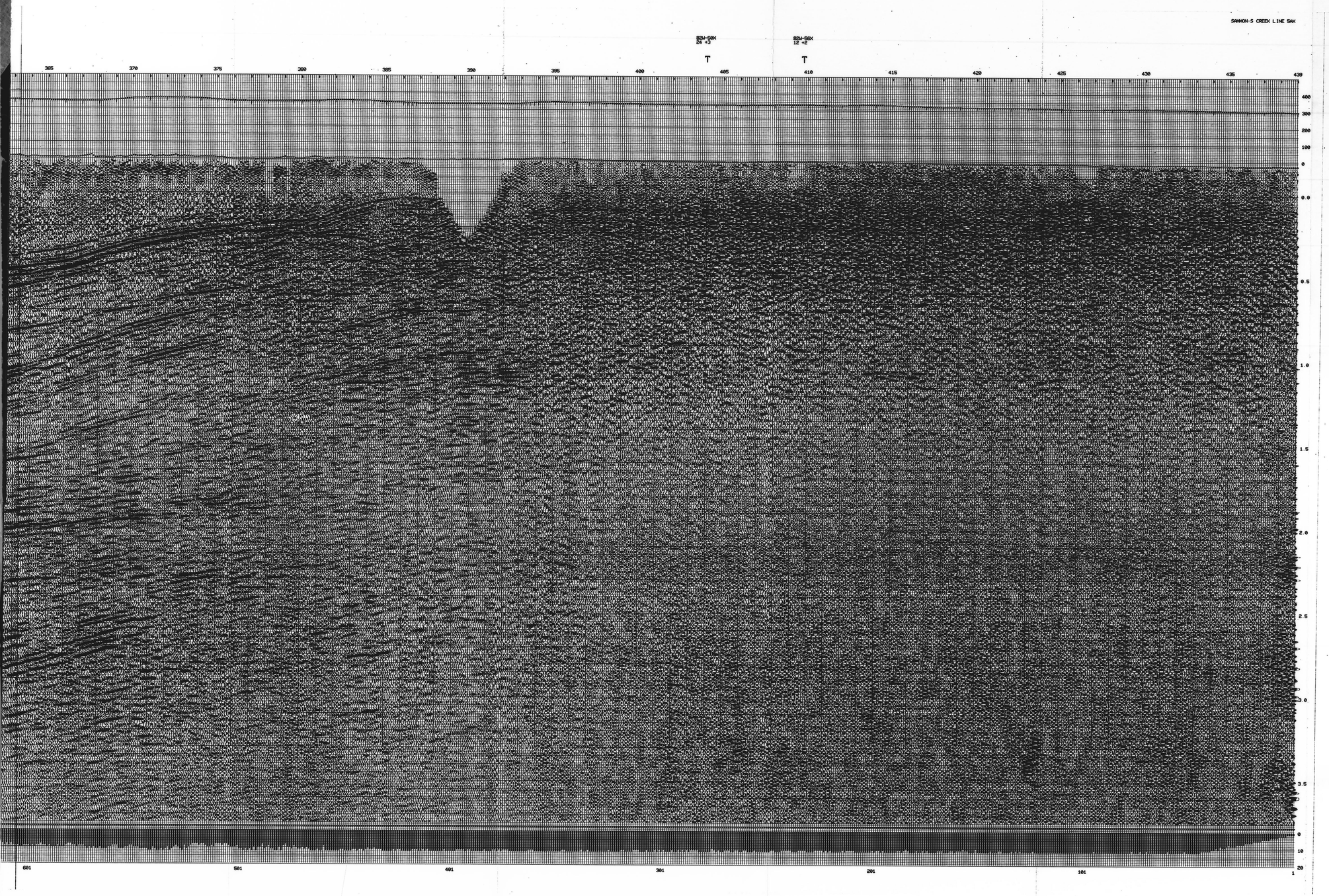

246-06-05-115

GEO-X SYSTEMS LTD.
CALGARY ALBERTA

FLAG

LINE: 82-W-5AX TYPE: S-NP
DIRECTION ——→ N.E.
PROJECT: SAMMON'S CREEK
LOCATION: DISTRICT OF MACKENZIE NTS 106H
CLIENT: PETRO-CANADA EXPLORATION INC.

SURFACE ELEVATIONS

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

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

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 At^{+1}

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 +200 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
1) NEAR RAMP SCALING
TIME 0-130, 250-1600, 2300, 3000-4000
% SCALE 75, 100, 120, 250
18 EQUALIZATION 400 2400 ms

VELOCITY TABULATION FROM PROCESSING DATUM

bmt
2000 Valley Rd.
Ottawa, Ont.
K1G 3C8
Tel: (613) 731-8571
Telex: 053-3602
Cable: TERRA
PROJ. NO. 246-06-05-115
LINE NO. 82-W-5AX
PART NO. 1 OF 1
R.R. 8X

SAMMONS CREEK SAX SP 433

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
10	3234	479.9 1584	3234	16	3234
20	3088	485.1 1584	3301	32	3267
30	3302	459.6 1584	3369	49	3301
185	3776	274.1 1584	3864	348	3764
698	5242	88.9 1584	5713	1795	5147
1015	5919	47.9 1584	4575	2617	4988
1365	4829	39.9 1584	4189	3259	4742
1625	4380	34.6 1584	4811	3772	4642
1889	4852	29.4 1584	5794	4452	4788
2345	5938	21.0 1584	5695	5834	4975
2675	6521	17.1 1584	6371	6885	5147
3100	6457	13.6 1584	6755	8321	5368

SAMMONS CREEK SAX SP 409

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
10	3234	479.9 1584	3234	16	3234
20	3088	485.1 1584	3301	32	3267
30	3302	459.6 1584	3368	49	3301
185	3776	274.1 1584	3864	348	3764
698	5242	88.9 1584	5713	1795	5147
1015	5919	47.9 1584	4575	2617	4988
1365	4829	39.9 1584	4189	3259	4742
1625	4380	34.6 1584	4811	3772	4642
1889	4852	29.4 1584	5794	4452	4788
2345	5938	21.0 1584	5695	5834	4975
2675	6521	17.1 1584	6371	6885	5147
3100	6457	13.6 1584	6755	8321	5368

SAMMONS CREEK SAX SP 382

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
10	3188	499.9 1584	3188	15	3188
25	3179	473.9 1584	3225	39	3179
95	3223	196.0 1584	3452	142	3361
367	3936	108.2 1584	4138	691	3918
795	5147	55.1 1584	5676	1986	4897
1145	4853	43.8 1584	4924	2862	4886
1515	4838	36.1 1584	4427	3621	4781
1875	4749	30.8 1584	4529	4181	4745
1972	5085	25.2 1584	6542	4868	4937
2425	5883	19.7 1584	5391	6164	5008
2757	6252	16.4 1584	6451	7146	5183
3150	5471	13.3 1584	6812	8484	5387

SAMMONS CREEK SAX SP 358

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
35	3211	498.5 1584	3211	56	3211
265	3361	275.7 1584	3380	445	3360
457	3657	181.1 1584	3810	811	3649
725	3743	113.9 1584	4965	1328	3749
1095	4861	47.9 1584	6996	2659	4674
1510	4963	33.5 1584	5180	3534	4814
1820	5813	27.2 1584	5324	4456	4897
2095	4852	24.1 1584	4927	5093	4919
2215	5817	22.4 1584	6940	5441	4913
2725	6124	17.6 1584	6555	6869	5034
2923	6271	15.4 1584	6836	7654	5169
3300	6323	13.4 1584	6710	8630	5230

SAMMONS CREEK SAX SP 332

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
283	3154	293.5 1584	3154	446	3154
549	3417	169.5 1584	3676	935	3407
748	3793	113.7 1584	4396	1372	3670
1094	3832	81.8 1584	4186	1908	3881
1379	4772	59.4 1584	6421	2188	4583
1764	4921	29.1 1584	5421	4201	4763
2081	5129	23.6 1584	5798	5047	4906
2382	5171	19.6 1584	5951	5844	4978
2423	5316	18.3 1584	6721	6252	5109
2830	6348	16.1 1584	6721	7221	5183
3080	6259	14.7 1584	6421	7699	5129
3450	5257	12.9 1584	5634	8341	5133

SAMMONS CREEK SAX SP 311

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
365	3274	257.8 1584	3274	532	3274
605	3430	156.1 1584	3682	1036	3428
815	3731	103.9 1584	4486	1527	3699
1065	3888	76.7 1584	4396	2063	3836
1440	4756	38.0 1584	6863	3234	4576
1815	4831	29.4 1584	5168	4252	4686
2055	5971	23.6 1584	6269	5045	4918
2350	5117	20.3 1584	5168	5846	4975
2500	5259	18.3 1584	5622	6343	5074
2900	5288	15.6 1584	5559	7465	5141
3140	5271	14.3 1584	5307	8091	5154
3500	5304	12.7 1584	5583	8956	5198

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PROJ. NO. 2 4 6 - 0 6 - 0 5 - 1 1 5
LINE NO. 8 2 - W - 5 A X
PART NO. 2 OF 2
R.R. 8X