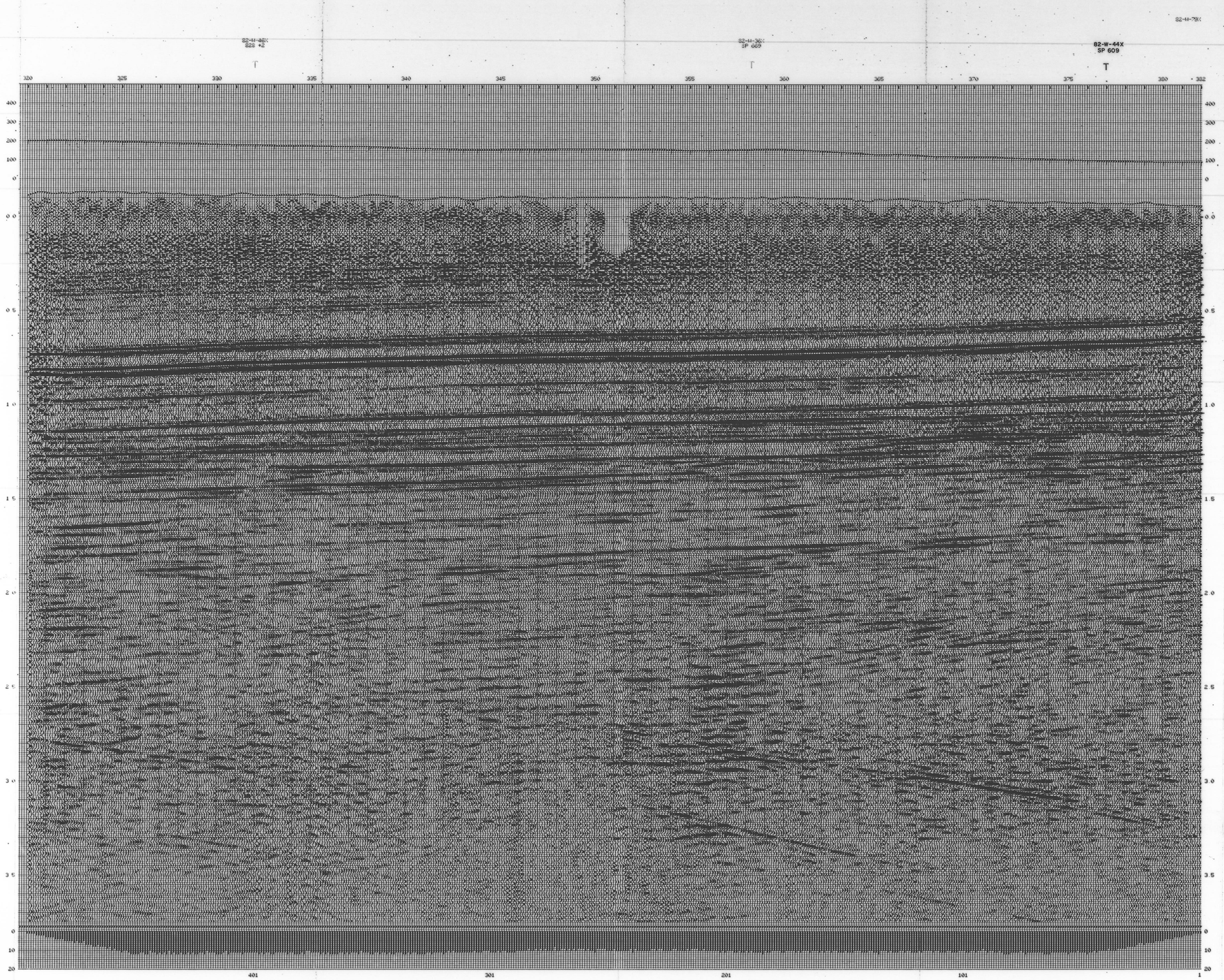

24 C-06-05-115

GEO-X SYSTEMS LTD
CALGARY, ALBERTA

FLAG

LINE: 82-W-79X TYPE: S-NP
DIRECTION ⟶ N.E.
PROJECT: SAMMON'S CREEK
LOCATION: DISTRICT OF MACKENZIE NTS 96
CLIENT: PETRO-CANADA EXPLORATION

SURFACE ELEVATIONS

SHOT BY WESTERN GEOPHYSICAL, PTY. 362 DATE: 2/82

SPREAD: 1584 m. - 33 m. x 33 m. - 1584 m.
SOURCE: 2 kg. at 18 m.
RECEIVERS: GEOSPACE 200, 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: 3/82

1 DIGITAL CONVERSION. SAMPLE RATE: 2 ms.
2 AMPLITUDE RECOVERY $At^{1.0}$

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.
[X] ELEVATIONS [X] WEATHERING [X] 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
(17) LINEAR RAMP SCALING
( ) TIME: 0-130, 250-1600, 2300, 3000-4000
% SCALER: 70, 100, 120, 250
18 EQUALIZATION 400-2400 ms

VELOCITY TABULATION FROM PROCESSING DATUM

SAMMON'S CREEK 82-W-79X SP 370

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
414	3029	253.0 ISBM	3029	627	3029
516	3174	202.4 ISBM	3714	812	3162
729	3412	135.3 ISBM	3932	1234	3386
844	3489	119.5 ISBM	3989	1429	3387
1134	4438	54.8 ISBM	6572	2382	4201
1216	4498	50.0 ISBM	5258	2632	4272
1389	4477	42.9 ISBM	4192	2793	4287
1429	4508	42.7 ISBM	4744	2852	4307
1499	4532	40.2 ISBM	5141	3257	4348
1694	4624	35.8 ISBM	4462	3626	4369
1900	4614	32.1 ISBM	4436	4148	4367
4000	5625	9.9 ISBM	6457	10949	5476

SAMMON'S CREEK 82-W-79X SP 355

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
444	3199	221.1 ISBM	3199	710	3199
548	3313	189.0 ISBM	3773	900	3326
729	3457	165.0 ISBM	3793	1320	3446
837	3523	154.1 ISBM	4148	1589	3544
1189	4474	51.6 ISBM	6519	2641	4275
1254	4498	48.9 ISBM	4588	2899	4291
1325	4493	46.0 ISBM	4797	2984	4314
1447	4548	41.3 ISBM	5121	3169	4381
1521	4645	37.8 ISBM	6246	3480	4471
1723	4620	33.7 ISBM	4431	3957	4466
1930	4625	30.1 ISBM	4666	4395	4488
4000	5625	9.9 ISBM	6420	10973	5486

SAMMON'S CREEK 82-W-79X SP 330

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
476	3355	194.4 ISBM	3355	798	3355
588	3395	163.3 ISBM	3564	992	3394
853	3487	113.5 ISBM	3689	1494	3483
958	3494	102.1 ISBM	3581	1666	3481
1203	4432	49.8 ISBM	6534	2672	4233
1343	4419	47.2 ISBM	4842	2932	4221
1394	4448	45.6 ISBM	4396	2946	4228
1588	4446	41.4 ISBM	4666	3224	4276
1611	4466	38.8 ISBM	4749	3469	4307
1860	4491	33.8 ISBM	4645	4081	4363
2030	4550	29.6 ISBM	5174	4495	4419
4000	5625	9.9 ISBM	6556	10938	5469

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PROJ. NO. 246-06-05-115
LINE NO. 82-W-79X
PART NO. 1 OF 1
R.R. 8X