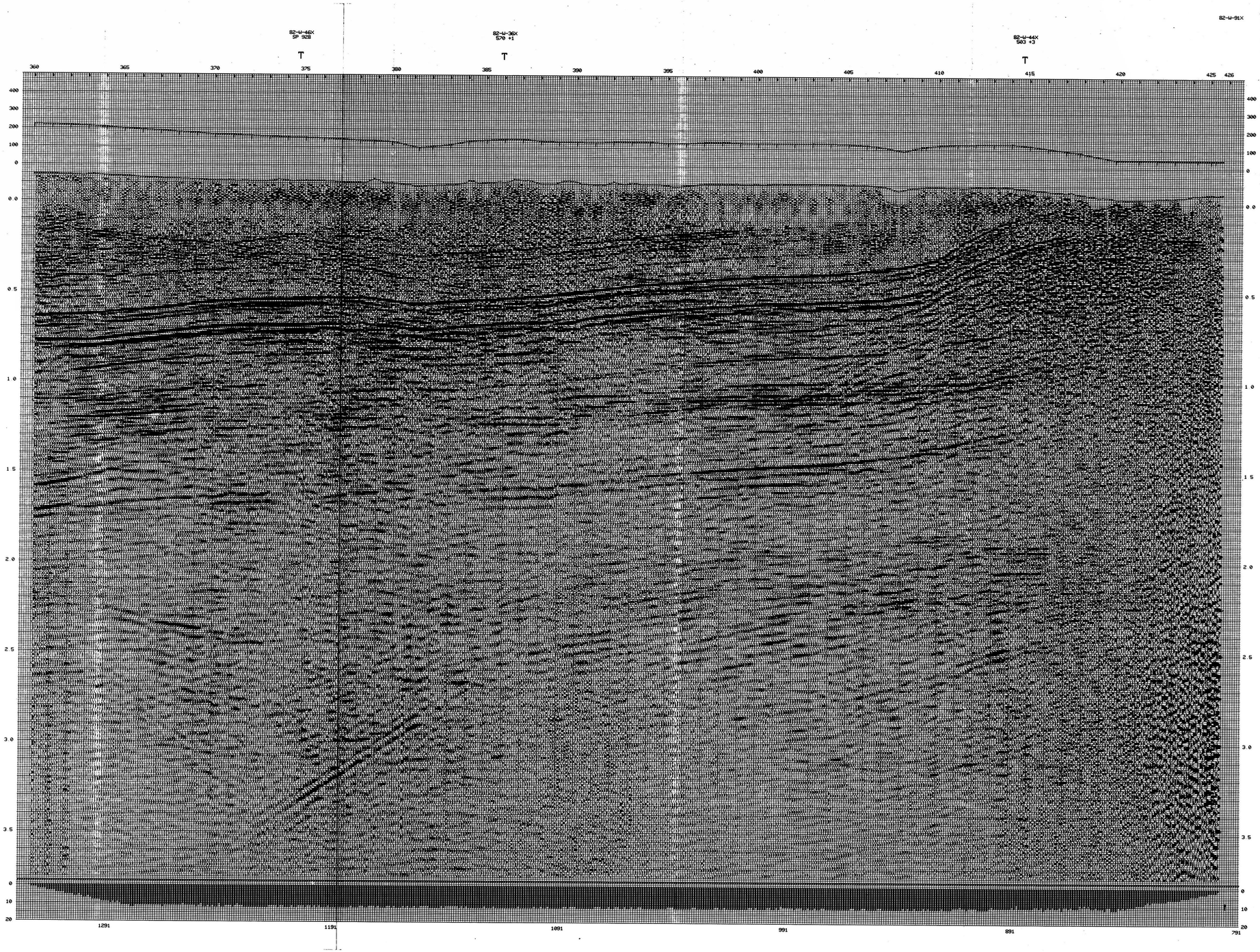
24C-00-05-115



GEO-X SYSTEMS LTD.
CALGARY ALBERTA

LINE: 82-W-91X 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: 2/82

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

1 DIGITAL CONVERSION, SAMPLE RATE 2 ms.
2 AMPLITUDE RECOVERY $At^{1.7}$

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.
[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
(7) LINEAR RAMP SCALING
TIME 0-130, 250-1600, 2300, 3000-4000
% SCALER 70, 100, 120, 250
18 EQUALIZATION 400-2400ms

VELOCITY TABULATION FROM PROCESSING DATUM

SAMMON'S CREEK 82-W-91X SP 416

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
176	2967	447.8	1584	2632	2967
328	3189	278.9	1584	3932	3093
509	4400	77.3	1584	4243	3147
959	4389	66.2	1584	4329	3939
1459	4377	68.6	1584	4261	4291
1909	4433	52.1	1584	4896	4313
2399	4547	43.3	1584	5245	4365
2999	5974	24.2	1584	6985	4971
4000	5700	9.6	1584	8263	11235	5617

SAMMON'S CREEK 82-W-91X SP 489

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
186	2912	388.9	1584	2912	276	2912
296	2911	324.9	1584	2969	423	2919
459	3016	241.6	1584	3095	677	3012
696	3376	169.5	1584	3433	1068	3329
914	4589	63.2	1584	4311	1938	4334
1163	4799	59.2	1584	5288	2488	4487
1185	4782	45.4	1584	5673	2713	4579
1331	4969	37.9	1584	6145	3161	4751
1531	5193	30.1	1584	6585	3620	4990
2076	5814	19.8	1584	6329	6545	5342
4000	6005	8.7	1584	6493	11791	5896

SAMMON'S CREEK 82-W-91X SP 383

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
298	2956	272.8	1584	2956	576	2956
538	2932	229.8	1584	2928	752	2931
758	3229	148.2	1584	3463	1134	3201
958	3548	122.5	1584	4058	1409	3318
1158	4548	79.7	1584	4828	1811	3584
1367	4543	47.1	1584	5423	2711	4298
1342	4625	43.9	1584	5962	2934	4368
1422	4685	38.8	1584	6363	3238	4389
1522	4691	31.6	1584	6582	3616	4495
2236	4999	23.2	1584	7016	5279	4736
4000	5835	9.5	1584	8825	11329	5669

SAMMON'S CREEK 82-W-91X SP 376

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
355	3029	279.3	1584	3029	538	3029
457	2997	241.2	1584	2916	684	2996
695	3236	155.6	1584	3845	1117	3215
851	3488	113.8	1584	4439	1465	3443
1173	4514	51.4	1584	4486	2599	4278
1258	4494	47.6	1584	4391	2728	4281
1339	4495	45.4	1584	4291	2859	4281
1667	4463	41.3	1584	4259	3324	4278
1880	4457	34.7	1584	4427	3672	4303
2258	4522	27.0	1584	4738	4964	4397
4000	5562	10.1	1584	8673	10776	5388

SAMMON'S CREEK 82-W-91X SP 365

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
379	3156	293.5	1584	3156	593	3156
498	3236	265.7	1584	3421	775	3221
718	3415	138.1	1584	3763	1208	3484
898	3795	95.9	1584	4231	1660	3722
1188	4867	44.1	1584	6374	2716	4684
1398	4842	49.5	1584	4389	2985	4693
1398	4825	38.5	1584	4539	3173	4599
1598	4792	36.0	1584	4889	3489	4552
1898	4729	30.9	1584	4538	4895	4598
2298	4863	23.4	1584	5368	5327	4714
4000	5827	9.2	1584	8889	11313	5656

PROJ. NO. 2 4 0 - 0 0 - 0 5 - 1 5
LINE NO. 8 2 - W - 9 1 X
PART NO. 1 OF 1
R.R. 8X