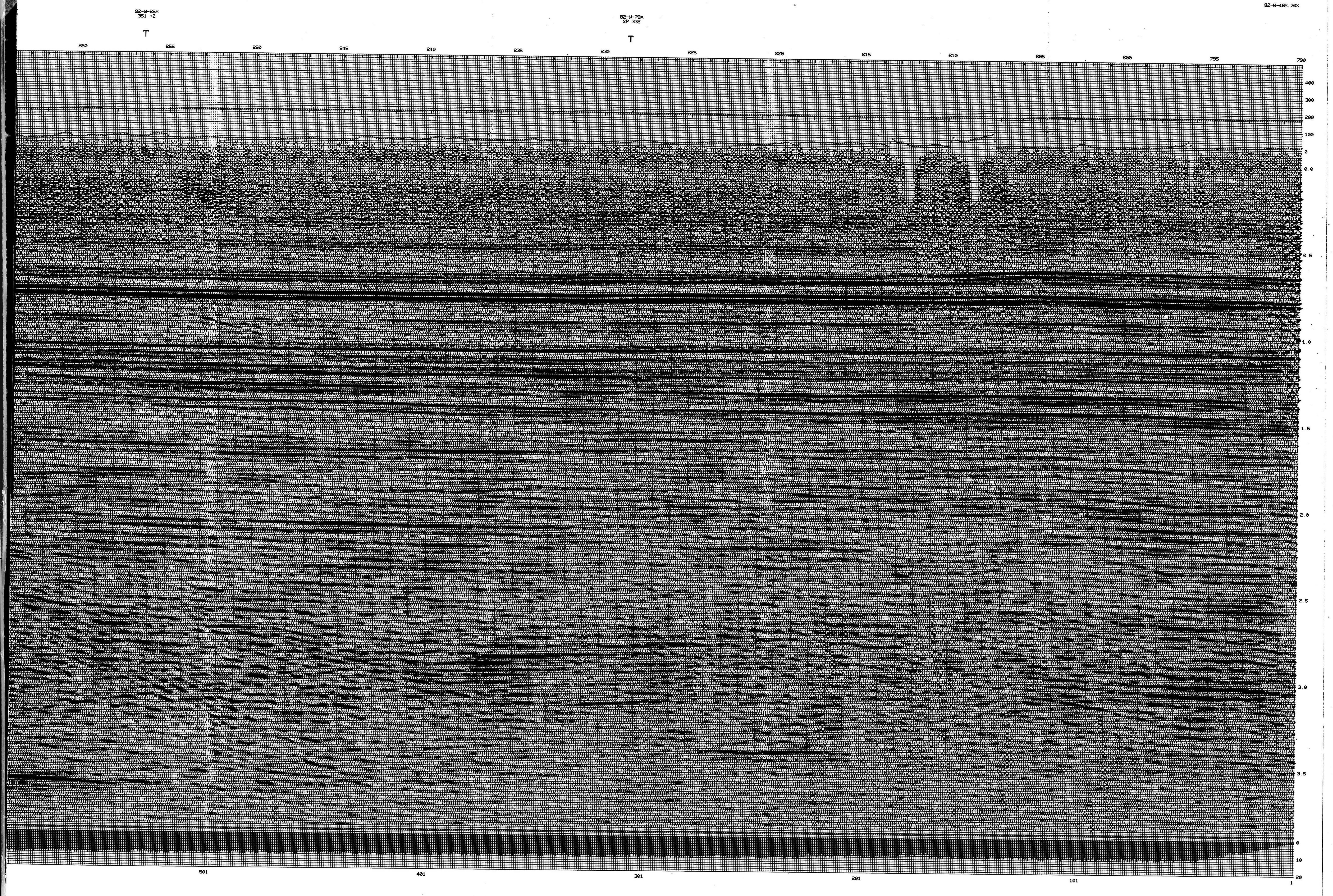

24 C-06-05-115

GEO-X SYSTEMS LTD.
CALGARY . ALBERTA

LINE: 82-W-46X/70X 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: 2/82

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

1 DIGITAL CONVERSION . SAMPLE RATE : 2 ms.
2 AMPLITUDE RECOVERY Ate^{kt}

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 -100 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
(17) 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

76405

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Canada K1G 3P5
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PROJ. NO. 2 4 6 - 0 6 - 0 5 - 1 1 5

LINE NO. 8 2 - W - 4 6 X

PART NO. 1 OF 5

R.R. 8X

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PROJ. NO. 246-06-05-115

LINE NO. 82-W-46X

PART NO. 2 **OF** 5 **R.R.** 8X

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LINE NO. 8 2 - W - 4 6 X

PART NO. 3 **OF** 5

R.R. 8X

SAMMON:S CREEK 82-W-46X SP 800

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
480	3347	194.1 1584	3347	803	3347
602	3508	150.5 1584	4080	1052	3495
742	3550	123.8 1584	3725	1312	3538
884	3738	96.3 1584	4596	1639	3708
1182	4309	55.8 1584	5674	2484	4204
1333	4288	50.2 1584	4119	2795	4194
1464	4402	43.6 1584	5427	3151	4305
1567	4502	39.0 1584	5737	3446	4399
1754	4494	35.1 1584	4426	3860	4402
2002	4451	31.4 1584	4134	4373	4368
4000	5650	9.8 1584	6637	11004	5502

SAMMON:S CREEK 82-W-46X SP 850

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
470	3356	196.1 1584	3356	788	3356
590	3499	153.7 1584	4010	1029	3489
780	3611	114.9 1584	3938	1403	3598
890	3625	101.5 1584	3722	1608	3613
1190	4416	52.9 1584	6194	2537	4264
1330	4475	46.3 1584	4948	2883	4336
1440	4467	43.0 1584	4369	3124	4338
1540	4452	40.6 1584	4230	3335	4331
1740	4427	36.4 1584	4229	3758	4320
1980	4471	31.4 1584	4777	4331	4375
4000	5696	9.7 1584	6682	11080	5540

SAMMON:S CREEK 82-W-46X SP 902

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
460	3343	200.4 1584	3343	768	3343
570	3441	162.7 1584	3823	979	3435
735	3572	123.4 1584	3991	1308	3560
855	3876	92.6 1584	5375	1631	3815
1160	4702	47.9 1584	6478	2618	4515
1245	4638	46.0 1584	3654	2774	4456
1310	4620	44.1 1584	4260	2912	4446
1405	4574	42.0 1584	3884	3097	4408
1585	4573	37.4 1584	4565	3508	4426
1805	4606	32.5 1584	4837	4040	4476
4000	5745	9.5 1584	6534	11211	5605

SAMMON:S CREEK 82-W-46X SP 912

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
430	3117	235.7 1584	3117	670	3117
577	3288	174.7 1584	3743	945	3276
817	3454	119.9 1584	3823	1404	3437
980	3854	82.7 1584	5431	1846	3769
1203	4448	51.6 1584	6438	2564	4263
1307	4400	48.7 1584	3800	2762	4227
1386	4362	46.8 1584	3676	2907	4195
1466	4345	44.6 1584	4039	3069	4187
1586	4321	41.8 1584	4016	3310	4174
1823	4323	36.5 1584	4336	3824	4195
4000	5625	9.9 1584	6518	10919	5459

SAMMON:S CREEK 82-W-46X SP 940

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
200	2986	366.9 1584	2986	298	2986
300	3083	295.0 1584	3268	462	3080
520	3340	183.8 1584	3661	864	3326
670	3729	123.3 1584	4841	1227	3665
1010	4413	61.9 1584	5518	2165	4289
1140	4426	54.9 1584	4525	2460	4316
1260	4442	49.5 1584	4591	2735	4342
1410	4393	45.4 1584	3957	3032	4301
1630	4377	39.7 1584	4273	3502	4297
1950	4371	33.4 1584	4340	4196	4304
4000	5510	10.3 1584	6408	10765	5382

SAMMON:S CREEK 82-W-46X SP 966

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
147	3260	360.6 1584	3260	239	3260
310	3620	226.3 1584	3916	558	3605
456	3484	187.9 1584	3175	790	3467
570	3699	142.9 1584	4456	1044	3665
984	4902	51.7 1584	6186	2325	4726
1100	4826	47.9 1584	4125	2564	4662
1210	4725	45.6 1584	3560	2760	4562
1347	4639	42.6 1584	3795	3020	4484
1533	4578	38.6 1584	4109	3402	4439
1936	4603	30.3 1584	4696	4349	4492
4000	5717	9.6 1584	6592	11152	5576

SAMMON:S CREEK 82-W-46X SP 980

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
134	3026	406.3 1584	3026	202	3026
317	3288	259.7 1584	3467	520	3280
456	3629	175.2 1584	4306	819	3593
554	3745	143.0 1584	4243	1027	3708
944	4771	56.7 1584	5930	2183	4626
1060	4664	53.1 1584	3679	2397	4522
1154	4621	49.8 1584	4105	2590	4488
1310	4573	45.0 1584	4200	2917	4454
1487	4527	40.6 1584	4170	3286	4420
1847	4500	33.2 1584	4386	4076	4414
4000	5620	9.9 1584	6427	10995	5497

SAMMON:S CREEK 82-W-46X SP 1030

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
270	3255	286.5 1584	3255	439	3255
330	3519	228.1 1584	4520	575	3485
780	5656	48.8 1584	6809	2107	5402
980	5550	40.7 1584	5115	2618	5344
1070	5632	36.3 1584	6457	2909	5437
1150	5585	34.5 1584	4913	3105	5401
1300	5429	32.3 1584	4037	3408	5244
1800	5376	24.0 1584	5235	4717	5241
4000	5737	9.5 1584	6016	11335	5667

SAMMON:S CREEK 82-W-46X SP 1055

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
106	3450	365.2 1584	3450	182	3450
223	4008	230.8 1584	4453	443	3976
712	4527	81.3 1584	4744	1603	4504
859	4480	69.9 1584	4244	1915	4459
985	4575	59.1 1584	5176	2241	4551
1063	4599	54.4 1584	4891	2432	4576
1187	4598	49.0 1584	4589	2716	4577
1690	4443	37.2 1584	4053	3736	4421
4000	5721	9.6 1584	6498	11242	5621

SAMMON:S CREEK 82-W-46X SP 1071

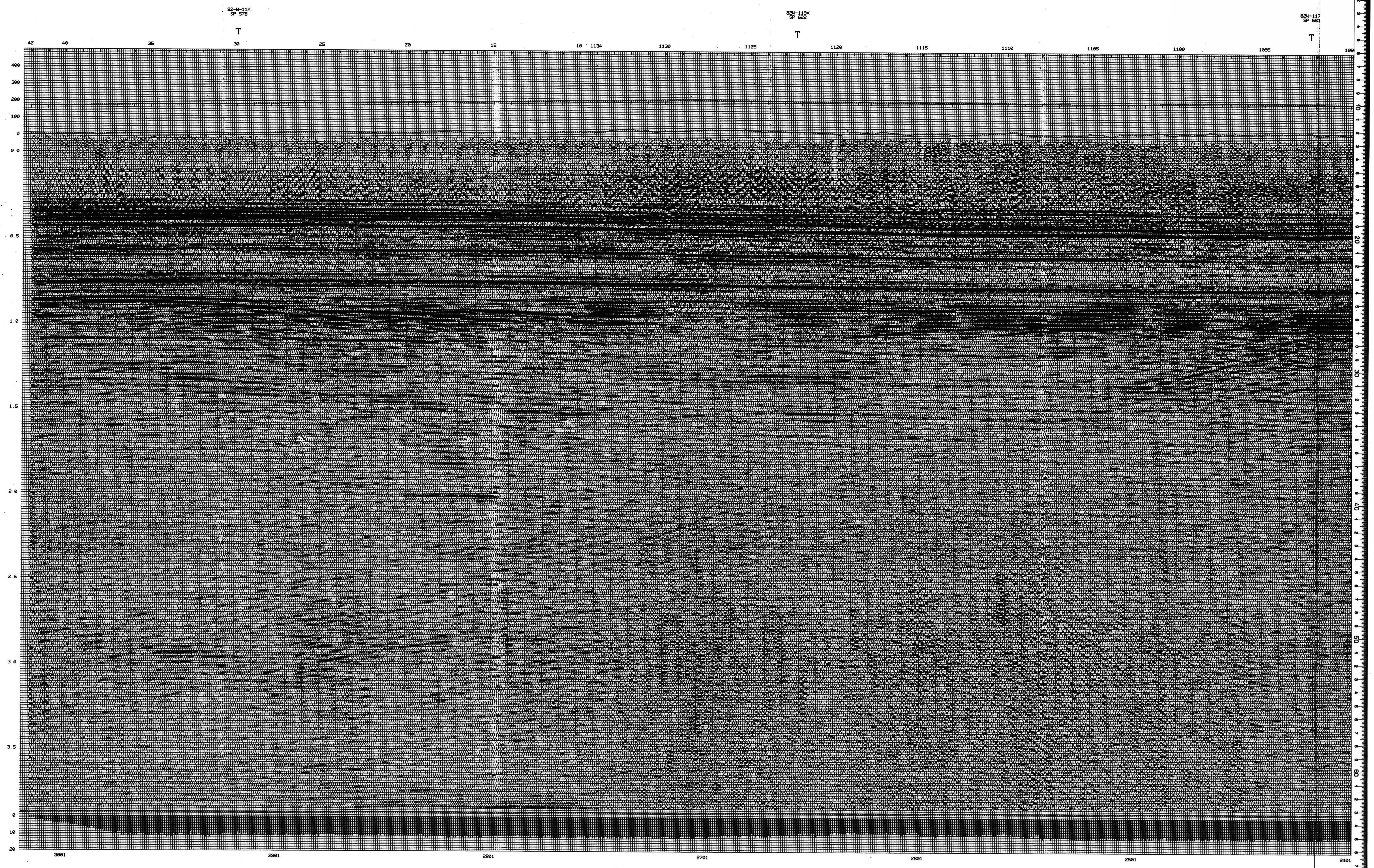
TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
221	3777	253.0 1584	3777	417	3777
301	3890	205.4 1584	4186	584	3885
433	3827	166.0 1584	3679	827	3822
535	4091	125.4 1584	5060	1085	4058
876	5466	46.7 1584	7105	2297	5244
1013	5349	42.4 1584	4530	2607	5148
1098	5256	40.6 1584	3983	2776	5058
1165	5220	38.9 1584	4589	2930	5031
1283	5123	36.7 1584	4042	3169	4940
1700	5027	29.0 1584	4719	4153	4886
4000	5908	9.0 1584	6482	11608	5804

SAMMON:S CREEK 82-W-46X SP 1120

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
184	3375	320.1 1584	3375	310	3375
288	3562	241.8 1584	3870	511	3554
424	3600	187.0 1584	3679	761	3594
540	3768	144.3 1584	4326	1012	3751
876	4871	58.4 1584	6248	2062	4709
1016	4890	50.4 1584	5007	2413	4750
1100	4842	47.6 1584	4218	2590	4709
1236	4747	44.3 1584	3894	2855	4619
1330	4725	41.6 1584	4425	3063	4606
1672	4742	33.0 1584	4807	3885	4647
4000	5923	8.9 1584	6642	11617	5808

SAMMON:S CREEK 82-W-70X SP 35

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
110	3076	416.6 1584	3076	169	3076
220	4029	230.5 1584	4796	432	3936
390	3648	193.6 1584	3085	695	3565
480	3783	157.0 1584	4319	889	3706
820	4808	63.7 1584	5962	1903	4642
990	4796	53.6 1584	4737	2305	4658
1070	4754	50.7 1584	4199	2473	4624
1200	4665	47.1 1584	3855	2724	4540
1350	4580	43.6 1584	3832	3011	4462
1580	4593	37.2 1584	4668	3548	4492
4000	5900	9.0 1584	6615	11553	5776



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PART NO. 5 **OF** 5

R.R. 8X