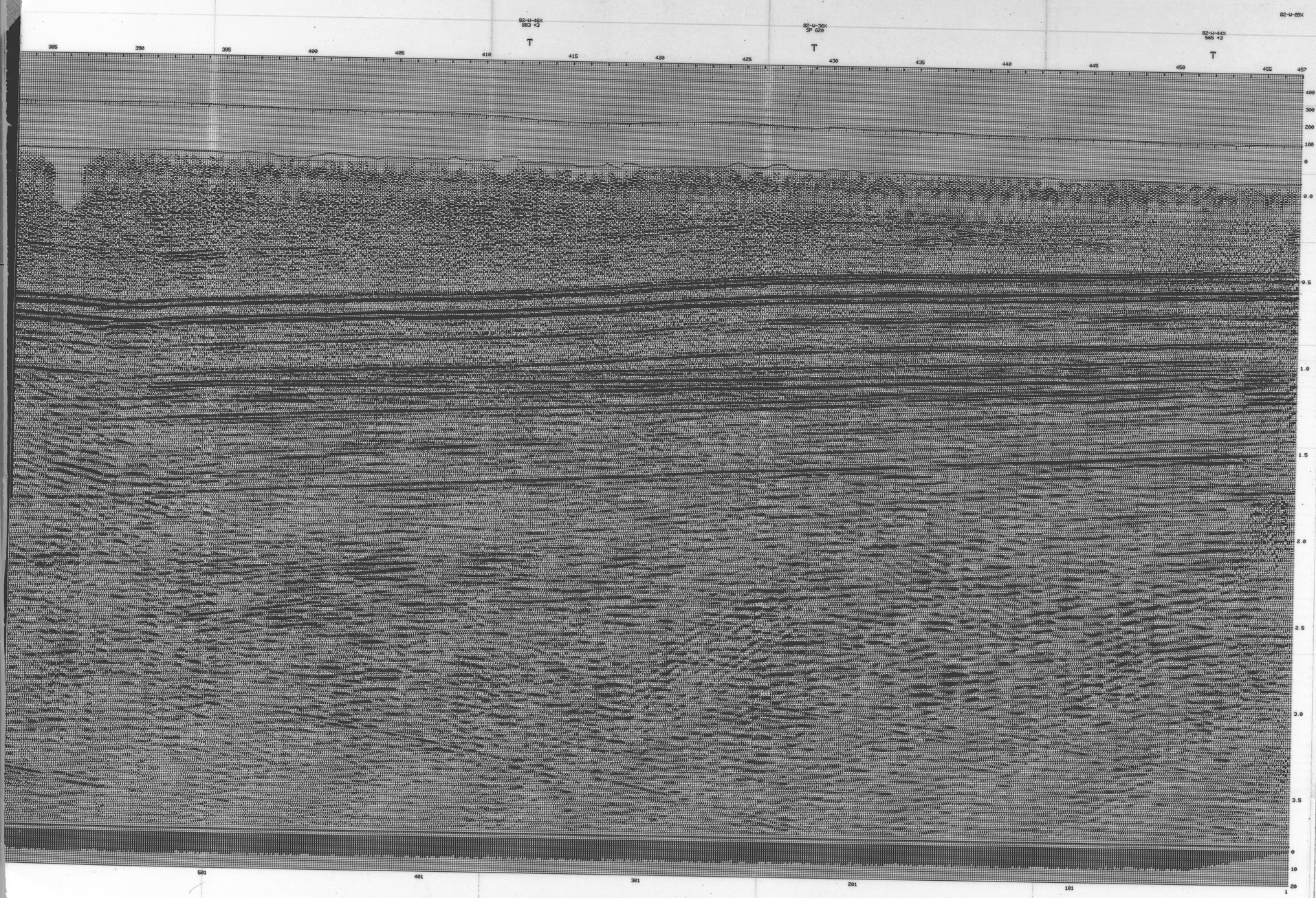
24C-06-05-115



GEO-X SYSTEMS LTD.
CALGARY, ALBERTA

FLAG

LINE: 82-W-89X TYPE: S-NP
DIRECTION ⟶ N.E.
PROJECT: SAMMON'S CREEK
LOCATION: DISTRICT OF MACKENZIE NTS 96E
CLIENT: PETRO-CANADA EXPLORATION INC.

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 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: 3/82

1 DIGITAL CONVERSION. SAMPLE RATE: 2 ms.
2 AMPLITUDE RECOVERY $At^{1.5}$
PREFILTER
3 DECONVOLUTION. TYPE: SPIKING
OPERATOR LENGTH: 80 ms. PREWHITENING: 1%
DESIGN GATE: 400-2600 ms. SLOPING
4 STRUCTURAL CORRECTIONS
DATUM: SEA LEVEL. DATUM VELOCITY: 3506 m/s.
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
(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-89X SP 436

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	INTERVAL DEPTH	SUMMED DEPTH	AVERAGE VELOCITY
376	3938	281.7 1584	2938	553	553	2934
436	3967	217.4 1584	3588	763	1317	3077
576	3987	142.2 1584	4828	1129	2446	3332
684	4171	102.9 1584	4154	1343	3789	3441
1021	4316	69.4 1584	5530	2248	6037	4148
1193	4386	58.6 1584	5878	2519	8556	4224
1306	4444	47.9 1584	5915	2683	11239	4292
1385	4514	43.8 1584	6019	2804	14043	4364
1725	4599	33.6 1584	4814	3005	17048	4468
2283	4954	21.4 1584	6887	3757	20805	4835
4000	5700	9.6 1584	6648	11133	31938	5586

SAMMON'S CREEK 82-W-89X SP 410

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	INTERVAL DEPTH	SUMMED DEPTH	AVERAGE VELOCITY
403	3218	222.8 1584	3218	696	696	3218
593	3415	169.5 1584	4061	934	1630	3367
765	3621	118.8 1584	3777	1293	2923	3613
899	3821	88.4 1584	4349	1617	4539	3898
1159	4082	63.4 1584	4416	2528	7067	4382
1273	4237	45.8 1584	5716	2589	9656	4391
1376	4329	42.6 1584	4489	2769	12425	4398
1486	4566	40.6 1584	4267	3021	15446	4398
1889	4579	31.6 1584	4827	4172	19618	4439
2489	5056	19.5 1584	6342	6846	26463	4893
4000	5697	9.7 1584	6586	11078	37541	5639

SAMMON'S CREEK 82-W-89X SP 389

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	INTERVAL DEPTH	SUMMED DEPTH	AVERAGE VELOCITY
494	3697	163.5 1584	3697	892	892	3697
693	3859	122.8 1584	3431	1094	1986	3849
894	3944	100.1 1584	3631	1628	3614	3943
994	3938	92.6 1584	3931	1608	5222	3938
1293	4721	42.9 1584	8913	3915	9136	4516
1337	4789	40.3 1584	5941	3202	12338	4616
1456	4896	36.9 1584	5161	3369	15707	4694
1573	4894	33.4 1584	5548	3685	19392	4835
2006	5623	24.6 1584	5623	4939	24331	4874
2596	5972	15.9 1584	6966	6919	31249	5369
4000	6872	9.1 1584	6498	11482	42741	5741

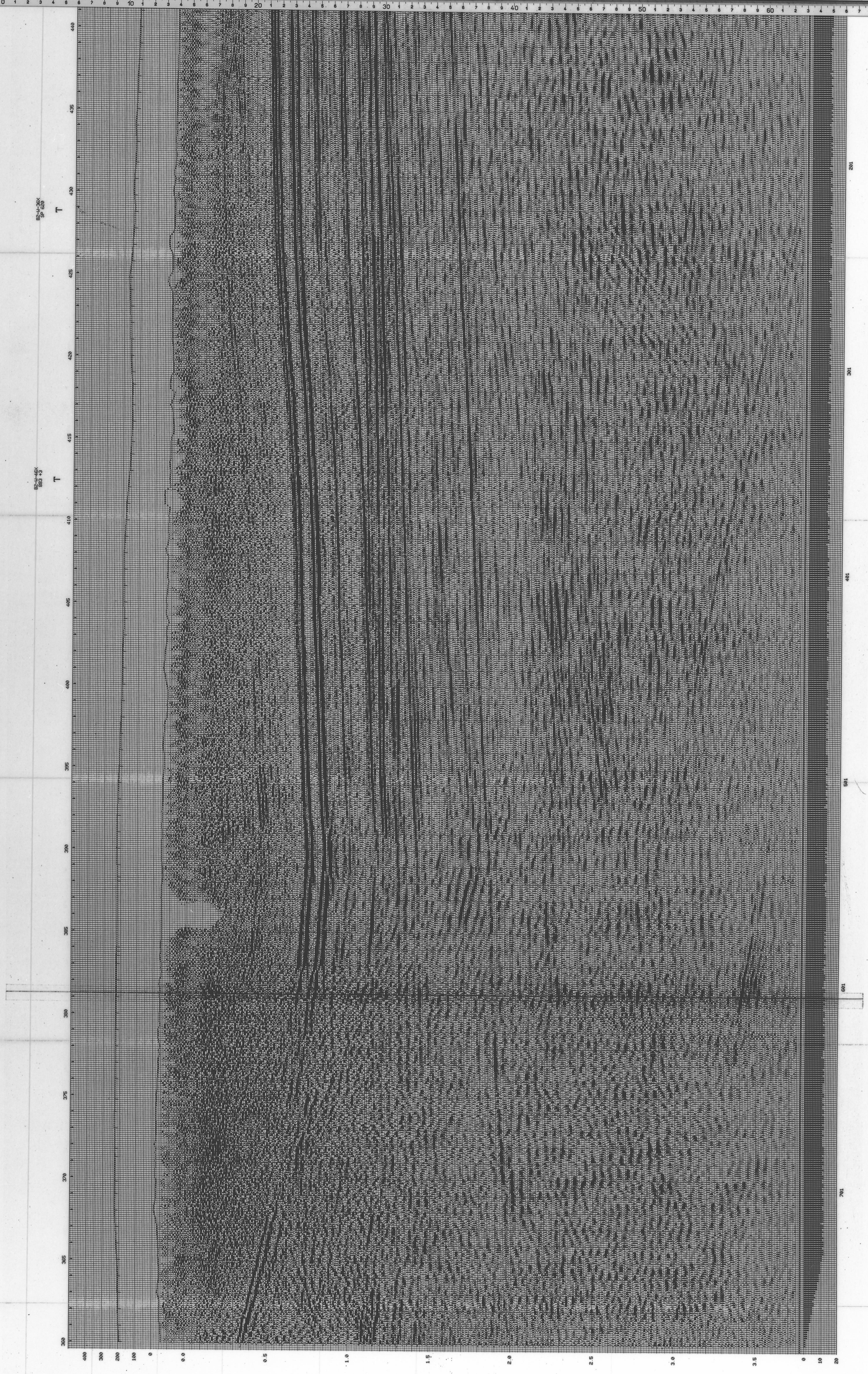
SAMMON'S CREEK 82-W-89X SP 365

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	INTERVAL DEPTH	SUMMED DEPTH	AVERAGE VELOCITY
186	2984	396.5 1584	2984	277	277	2984
332	3138	252.2 1584	3531	518	795	3135
494	3376	187.9 1584	3881	639	1433	3319
633	3648	134.3 1584	4491	1139	2572	3598
1044	4432	54.4 1584	5533	2337	4909	4478
1282	4697	47.3 1584	3848	2795	7704	4361
1518	4598	40.2 1584	4548	3338	11042	4399
1655	4614	36.8 1584	4612	3648	14689	4469
2136	4627	29.5 1584	4571	4798	19487	4448
2606	4958	19.0 1584	6392	6479	25966	4831
4000	5498	10.5 1584	6346	10661	36626	5308

P2/4

2380 Walkley Rd. Ottawa, Ont. K1G 3P4 Tel: (613) 731-9571 Telex: 053-3502 Cable: TERRA

PROJ. NO. 246-06-05-115
LINE NO. 82-W-89X
PART NO. 1 OF 2
R.R. 8X

2090 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 - 8 9 X PART NO. 2 OF 2 R.R. 6X