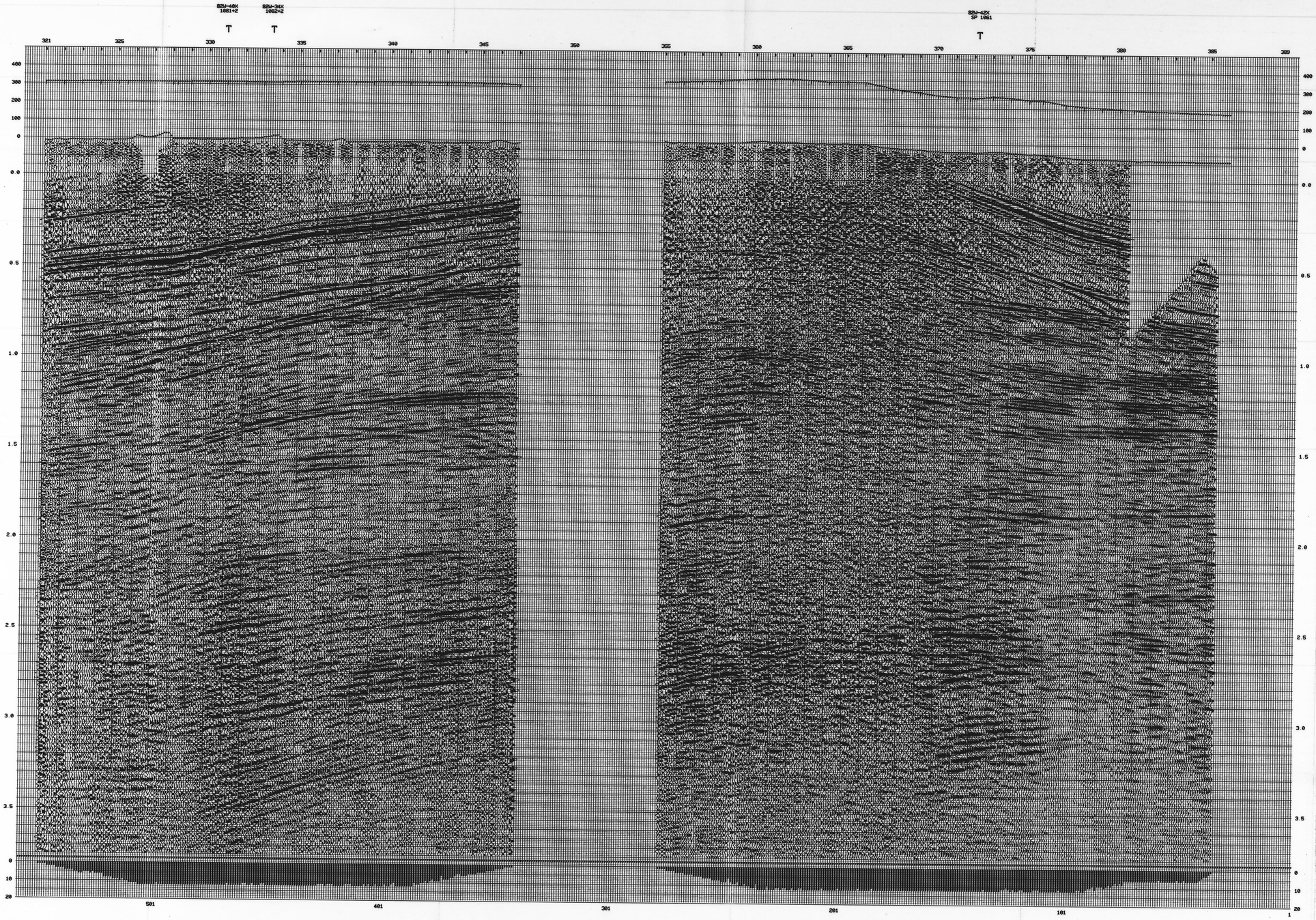

24C-00-05-115

GEO-X SYSTEMS LTD.
CALGARY ALBERTA

LINE: 82-W-107X TYPE: S-NP
DIRECTION ——→N.E.
PROJECT: SAMMON'S CREEK
LOCATION: DISTRICT OF MACKENZIE NTS 96E
CLIENT: PETRO-CANADA EXPLORATION INC.

FLAG

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

SURFACE ELEVATIONS

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.

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 $At^{1.0}$

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 -200m s.
[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
LINEAR RAMP SCALING
TIME 0-130, 250-1600, 2300, 3000-4000
% SCALE 70, 100, 120, 250
18 EQUALIZATION 400-2400 ms

VELOCITY TABULATION FROM PROCESSING DATUM

SAMMON'S CREEK 82J-107X SP 378

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
0	2800	985.7 1584	2800	0	2800
159	3339	398.6 1584	3339	244	3339
316	3642	224.1 1584	3996	591	3624
473	3850	163.1 1584	4275	839	3817
630	3971	49.8 1584	7132	2124	3911
788	4047	47.3 1584	6238	2739	3973
1419	4365	26.1 1584	6277	4206	5801
2050	5206	15.8 1584	6798	5233	6081
2700	5589	11.8 1584	6466	6035	6174
3500	5184	9.4 1584	5888	10639	6108

SAMMON'S CREEK 82J-107X SP 365

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
0	2800	985.7 1584	2800	0	2800
94	3239	412.4 1584	3239	136	3239
128	3467	346.7 1584	3627	222	3489
248	4167	210.6 1584	4606	499	4055
615	5195	71.0 1584	5898	1589	5167
872	5369	50.4 1584	5445	2349	5305
1328	5556	36.7 1584	5937	3316	5395
2028	5395	21.1 1584	6012	5416	5395
2728	5453	15.3 1584	5539	7428	5440
3500	5583	11.6 1584	5732	9707	5546

SAMMON'S CREEK 82J-107X SP 344

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
0	2800	985.7 1584	2800	0	2800
155	3427	392.5 1584	3427	265	3427
266	3499	279.5 1584	3630	388	3499
393	3681	194.2 1584	4214	596	3629
732	4261	59.5 1584	5898	1998	4645
989	5363	49.3 1584	5912	2966	5174
1447	5557	27.8 1584	5934	4755	5274
2131	5667	18.3 1584	5888	6951	5395
2815	5375	15.4 1584	4342	8136	5395
3500	5486	11.9 1584	5891	9454	5462

SAMMON'S CREEK 82J-107X SP 325

TWO WAY TIME	RMS VELOCITY	DELTA-T AT X-DISTANCE	INTERVAL VELOCITY	SUMMED DEPTH	AVERAGE VELOCITY
0	2800	985.7 1584	2800	0	2800
401	3336	220.5 1584	3336	668	3336
562	3555	155.2 1584	4043	894	3549
685	3799	119.8 1584	4521	1248	3754
1195	5101	46.8 1584	6272	2437	4985
1127	5194	40.7 1584	5828	2789	4959
1658	5333	26.4 1584	5634	4298	5179
2272	5422	18.7 1584	5655	6022	5301
2885	5448	14.8 1584	5395	7662	5312
3500	5361	12.4 1584	5134	9242	5281

LP323

Ottawa, Ont.
2380 Walkley Rd.
Canada K1G 3P5
Tel. (613) 731-6571
Telex: 053-3502 Cable: TERRA
PROJ. NO. 2 4 0 0 0 0 0 1 0 8
LINE NO. 8 2 - W - 1 0 7 X
PART NO. 1 OF 1
R.R. 8X