076-06-06-030

WEST CANADIAN GRAPHIC INDUSTRIES LTD.
801 - 5th Avenue S.W. CALGARY 1, ALBERTA
Phone 263-2555

MICROMAT
105 M.M.

11x

October 1974



66°00'
05'
127°00'
126°45'
126°30'
126°15'
126°00'
66°00'

65°50'

65°40'

TUTION LAKE

INTERPRETATION QUESTIONABLE

KELLY LAKE FAULT

HIGH

HIGH

NO REFLECTIONS

ESTIMATED TIME vs DEPTH	
240	1920
260	2080
280	2240
300	2400
320	2560
340	2720
360	2880
380	3040
400	3200
420	3360
440	3520
460	3680
480	3840
500	4000
520	4160
540	4320

66°00'
05'
127°00'
126°45'
126°30'
126°15'
126°00'
66°00'

SURFACE FAULT

(14800 Ft.)

580

600

620

640

660

680

700 (5600 Ft.)

720

740

760

780

800 (6400 Ft.)

820

840

860

880

900 (7200 Ft.)

920

940

960

980

1000 (8000 Ft.)

1020

1040

1060

1080

1100

1120

1140

Turlon Lake

HIGH

U D

65°50'

65°40'

ESTIMATED TIME vs DEPTH

580	4640
600	4800
620	4960
640	5120
660	5280
680	5440
700	5600
720	5760
740	5920
760	6080
780	6240
800	6400
820	6560
840	6720
860	6880
880	7040
900	7200
920	7360
940	7520
960	7680
980	7840
1000	8000
1020	8160
1040	8370
1060	8480
1080	8640
1100	8800
1120	8960
1140	9120

MICROMAT
105 M.M.
WEST CANADIAN GRAPHSEC INDUSTRIES LTD.
840 - 5th Avenue S.W. CALGARY 1, ALBERTA
Phone 263-2555
11x
October 1974
076-06-06-030

AREA	PROSPECT	DATE	SHOTPOINTS AND/OR LINE NUMBERS	SYMBOL & FIGURE	SHOT BY	SHOT FOR	REMARKS
N.W.T. 96-E-N.E.	OSCAR CREEK	DEC. 1972	4,5,6,7,8,9,10,11,12,16, 16,17,18,21,25,26,27,28 & 29	+ C.G.	C.G.G.	BANFF	
N.W.T. 96-E-N.E.	CHICK LAKE	APR. 1973	W1	+ W	WESTERN	G.P.D.	
"	" "	DEC. 1973	W1.5,4,5&6	+ W	WESTERN	G.P.D.	

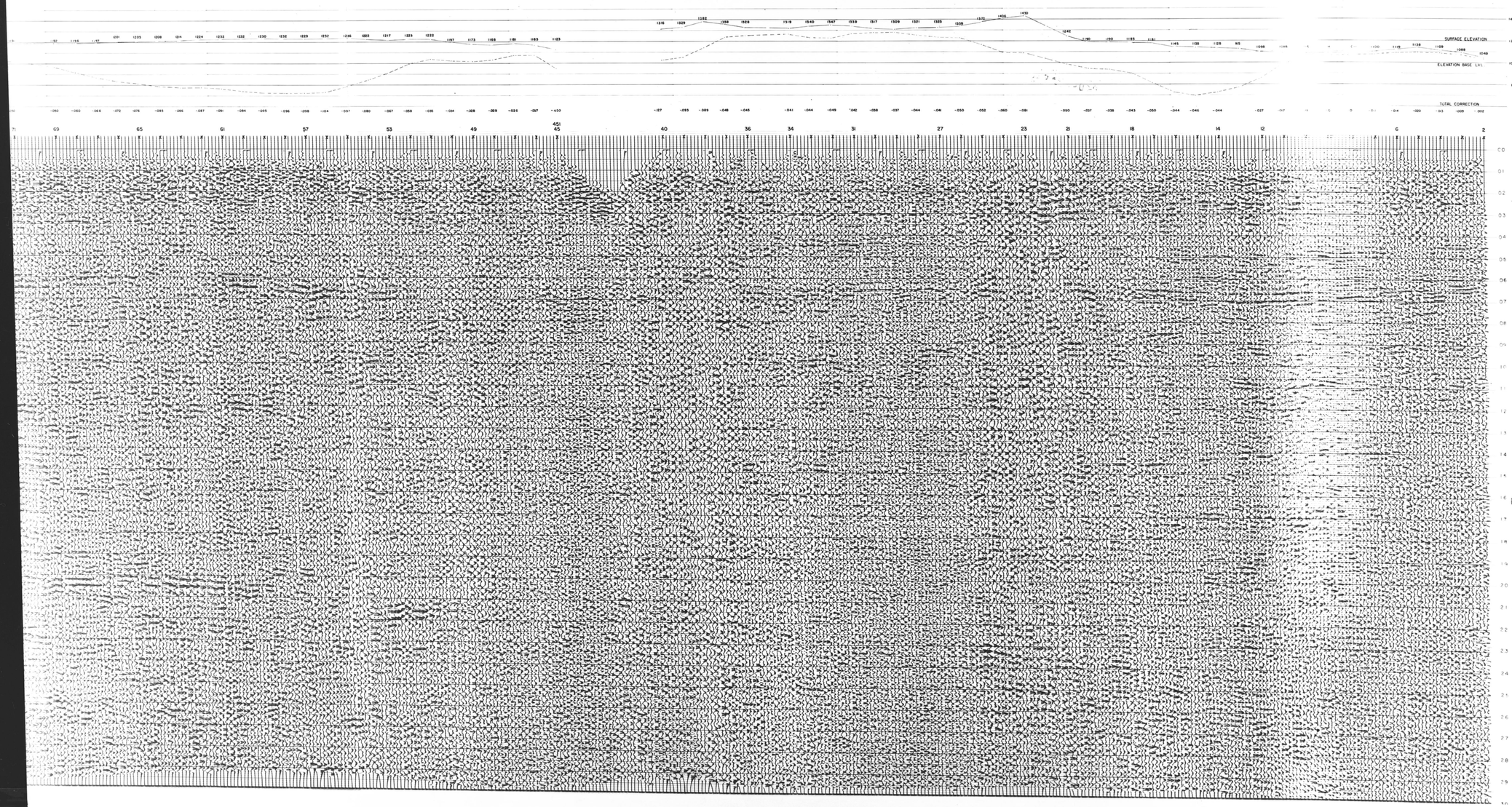
076-06-05-030

WEST CANADIAN GRAPHIC INDUSTRIES LTD.
810 - 5th Avenue S.W. CALGARY 1, ALBERTA
Phone 263-2555

MICROMAT
105 M.M.

11x June 1974

076-06-05-030 076-06-06-030



076-06-05-030
076-06-06-030

LINE 1

DIRECTION EAST

PROJECT CHICK LAKE

GREATPLAINS DEVELOPMENT COMPANY OF CANADA LTD.

Source Interval 15,000'/SEC Datum 1000'ASL
Spread 1800'-150'-150'-1800'
Shot Interval 450' Group Interval 150'
Shots 400 % 100% Coverage
Stacking 600' TO 0.010, 750' TO 0.050 & 1800' TO 0.150 SECS
TAPERED BETWEEN

	PLAYBACK DATA	RECORDING DATA
INSTRUMENTS	IBM 360/44 PL 608	
AMPLIFIER TYPE	PT 100	
FILTER	OUT-1/100	
AUTOMATIC GAIN CONTROL	OFF	
MIX	NIL	

DIGITAL PROCESSING

[3] FILTER TYPE 00 3.0 SPECTRUM 30,100 Hz WITH NOTCH
[ ] FILTER TYPE SPECTRUM Hz WITH NOTCH
TYPE SPECTRUM Hz WITH NOTCH
TYPE SPECTRUM Hz WITH NOTCH
TYPE SPECTRUM Hz WITH NOTCH
[ ] DECONVOLUTION Type of Deconvolution Operator Input Operator Length
R.C. WINDOW SPECTRUM Hz
R.C. WINDOW SPECTRUM Hz
OPERATOR LENGTH msec OPERATOR OFFSET msec
MERGE LINE msec
[ ] AMPLITUDE RECOVERY SPHERICAL DIVERGENCE
[2] CALCSTATS DATUM PLANE(S) USED
[1] NMO
[4] TRACE GATHER STATICS BY [ ] TXL [✓] CLIENT
[ ] FULLY CORRECTED
[7] STACK
[ ] ADDITIONAL STATICS & OMITS
[ ] MINIMOVE, REVISED NMO
[ ] MULTI-CHANNEL FILTER - TYPE
WINDOW WIDTH msec
[ ] AUTOCORRELOGRAM
LAG INC msec LAG LNG msec
[5] AVAMP 400 MS
[6] [8] R.S.E. 02-12 W/10 LAGS

PROJECT SURVEYED BY WESTERN GEOPHYSICAL COMPANY PARTY F-35

SECTION PROCESSED BY

DATE MAY 30 1973

TXL

TP 1 INTERFACE 1 TYPE

LOCATION TIME	WIDTH	INTERVAL VELOCITY	CMP VELOCITY	PROJECT VELOCITY	CENTER TIME	FREQ	DIP
	MS	M/S	M/S	M/S	MS		

WEST CANADIAN GRAPHIC INDUSTRIES LTD.
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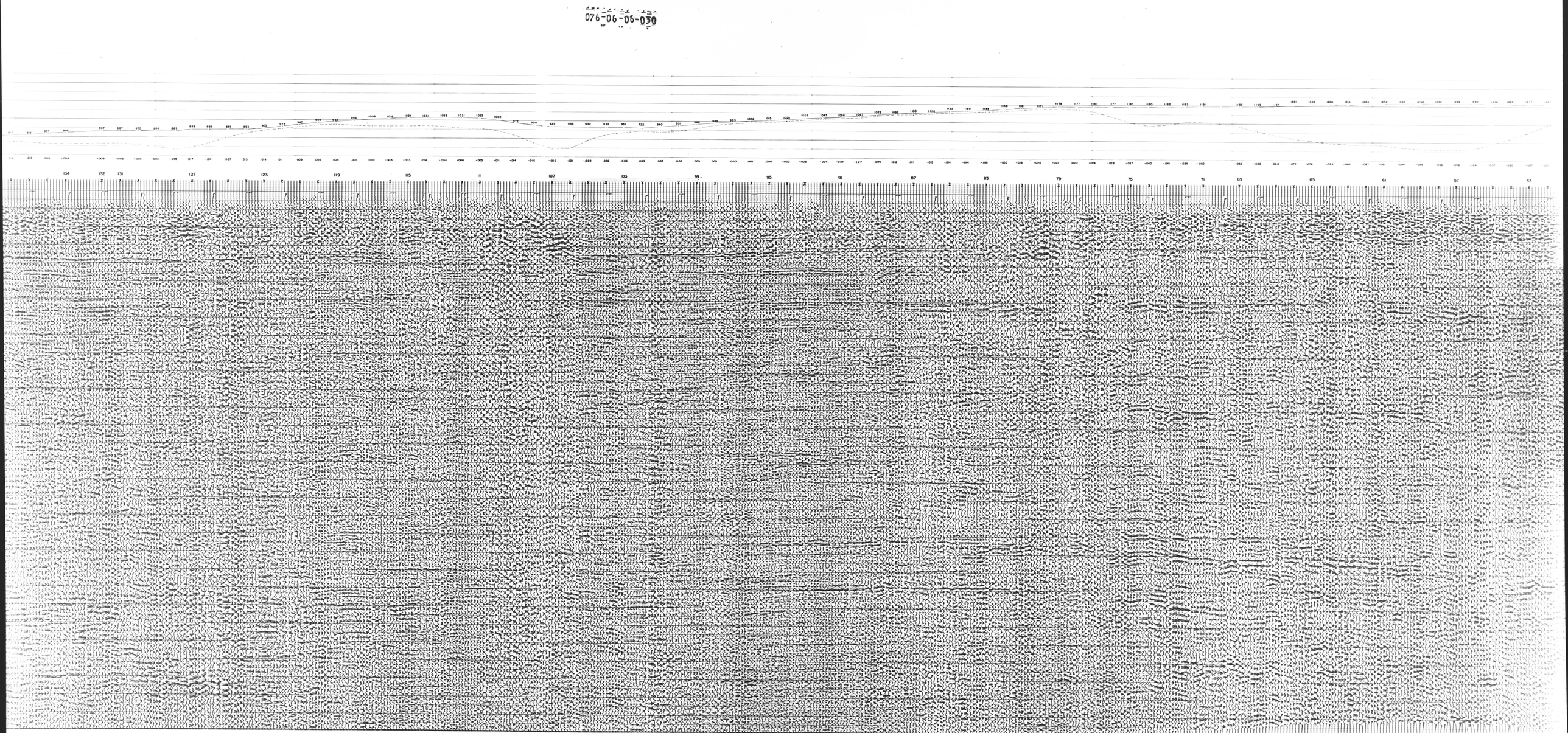
MICROMAT
105 M.M.

11x

June 1974

076-06-05-030

076-06-05-030



076-06-05-030

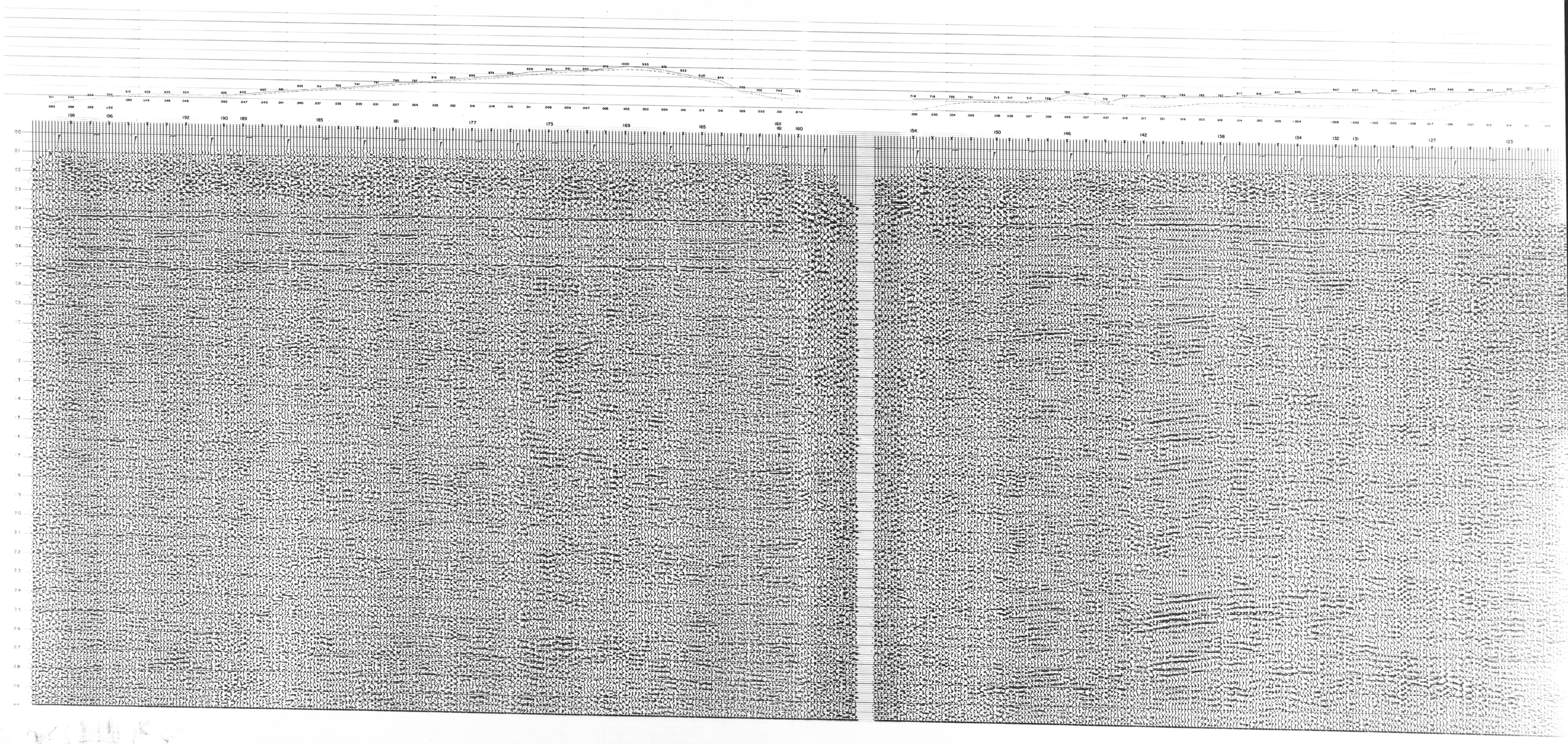
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MICROMAT
105 M.M.

11x June 1974

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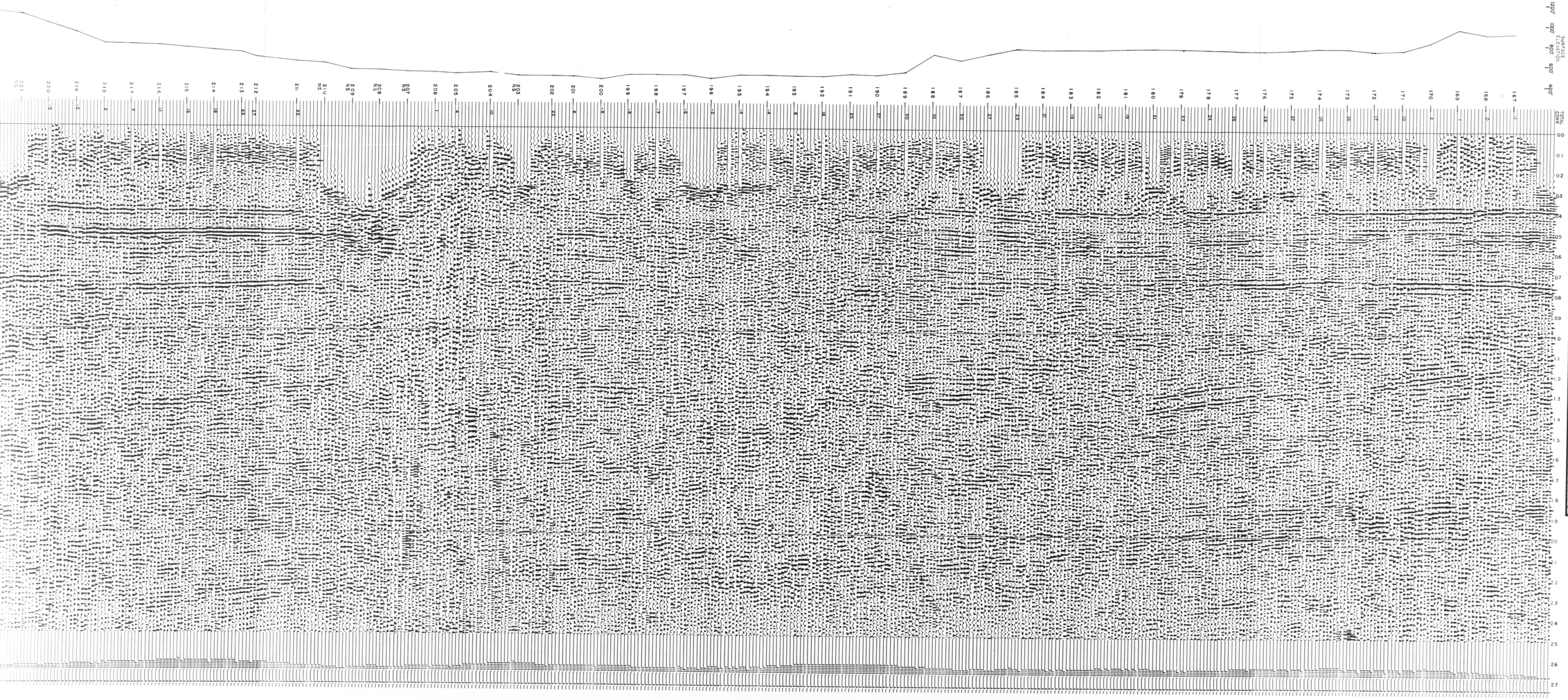


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MICROMAT
105 M.M.

11x June 1974



SEFEL J. & ASSOCIATES
DATA PROCESSING CONSULTANTS

CHICK LAKE
PROJECT

GREAT PLAINS DEVELOPMENT COMPANY OF CANADA LTD
CLIENT

2 LINE No. NE DIRECTION

DATA PREPARATION BY: SEFEL J. & ASSOCIATES LTD
PARAMETER SELECTION BY: GREAT PLAINS DEV CO OF CANADA LTD.
RECORDED BY: WESTERN GEOPHYSICAL CO OF CANADA LTD

SHOT INTERVAL	X	SPREAD LENGTH	1650-150
GEO INTERVAL		GEO INTERVAL	150-3600
SPREAD CONFIG		SHOT INTERVAL	150'
SPREAD TYPE		GEO INTERVAL	660'
NOM. COVERAGE		RECORD LENGTH	2500
REC. CHANNELS		FOLD	2
TRACE GATHER		PASS	600%

RECORDING INSTRUMENT		DIGITAL	ANALOG
		DFS-3	
TAPE	X	9 TRACK 1600 BPI	TELEMETRY 12 BIT FM
		9 TRACK 800 BPI	
GAIN	X	BINARY	FIXED 1ST GAIN
FIELD FILTER	X	124	Hz
SWEEP FREQ		18/36	Hz/sec

DIGITAL PROCESSING

PROCESS	SEQ	TYPE	OPERATION LENGTH	WINDOW
VIBROSEIS CORRELATION				
RESAMPLE				
NMO	5			
DECONVOLUTION				
FILTER (CONV)				
FILTER (M.G.)	6,10	B P	32035/100	0-2500
DMPX & GAIN RECOVERY	1			
STATIC	3	W.S.		
RESIDUAL NMO				
TRACE GATHER	4			
RE STATIC	8	AUTO	± 12	400-1800
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	9			
TRACE SCALE	12			
EQUALIZE	7, 11		RM +2000	300 - 1000
DISPLAY PAPER	13			
DISPLAY FILM	14			
VELOCITY ANALYSIS	2			

DATE JAN 28/74 DATUM 1000' CORR. VELOCITY 16,000'/sec

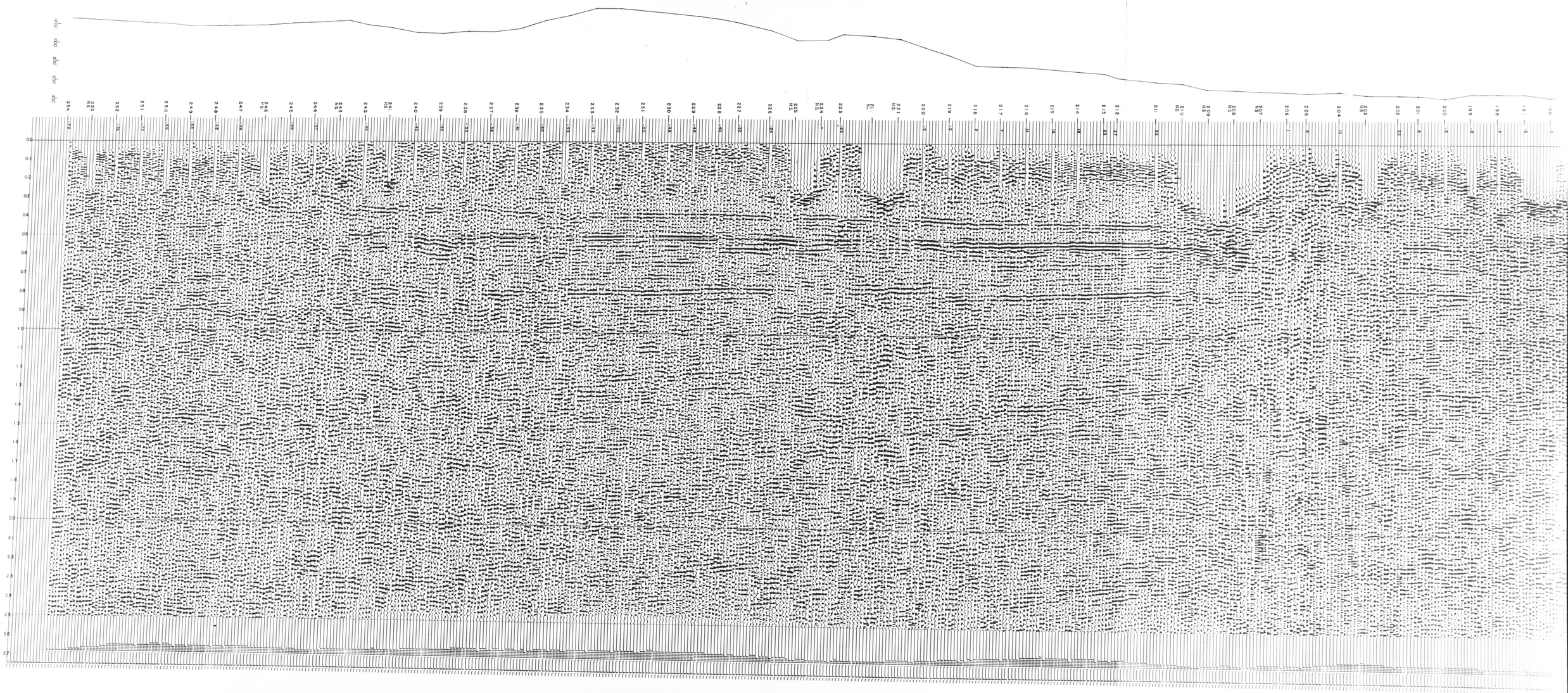
076-06-05-030

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MICROMAT
105 M.M.

11x June 1974



SEFEL J. & ASSOCIATES
DATA PROCESSING CONSULTANTS

CHICK LAKE
PROSPECT

GREAT PLAINS DEVELOPMENT COMPANY OF CANADA LTD
CLIENT

2
LINE No

NE →
DIRECTION

DATA PREPARATION BY SEFEL J. & ASSOCIATES LTD

PARAMETER SELECTION BY GREAT PLAINS DEV. CO. OF CANADA LTD

RECORDED BY WESTERN GEOPHYSICAL CO. OF CANADA LTD

RAW	☐
NMO	☐
STACKED ISOCHRON	☐
STACKED STRUCTURAL	☒
100% ISOCHRON	☐
100% STRUCTURAL	☐
TRACE GATHER	☐

SPREAD LENGTH	3600-150
	150-3600
GR INTERVAL	150'
S.P. INTERVAL	600'
RECORD LENGTH	2500
SAMPLE INT	2
FOLD	600%

RECORDING INSTRUMENTS	DIGITAL	ANALOG
	DFS-3	
TAPE	☒ 9 TRACK ☐ 21 TRACK FORMAT	☐ TECHNO ☐ SIE - AM ☐ SIE - FM
GAIN	☐ PGC ☐ AGC ☒ BINARY	☐ PGC ☐ AGC ☐ ST. GAIN
FIELD FILTER ☒	HI 124	HI
SWEEP FREQ ☐	LOW 18/36	LOW

DIGITAL PROCESSING

PROCESS	SEQ	TYPE	OPERATION LENGTH	WINDOW
VIBROSEIS CORRELATION				
RESAMPLE				
NMO	5			
DECONVOLUTION				
FILTER (CONV)				
FILTER (M.G.)	6, 10	B.P.	320 35/100	0-2500
DMPX & GAIN RECOVERY	1			
STATIC	3	Wx.		
RESIDUAL NMO				
TRACE GATHER	4			
RE STATIC	8	AUTO	± 12	400-1800
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	9			
TRACE SCALE	12			
EQUALIZE	7, 11		RM = 2000	300-1000
DISPLAY PAPER	13			
DISPLAY FILM	14			
VELOCITY ANALYSIS	2			

DATE JAN 28/74 | DATUM 1000' | CORR. VELOCITY 16,000'/sec.

076-06-05-030

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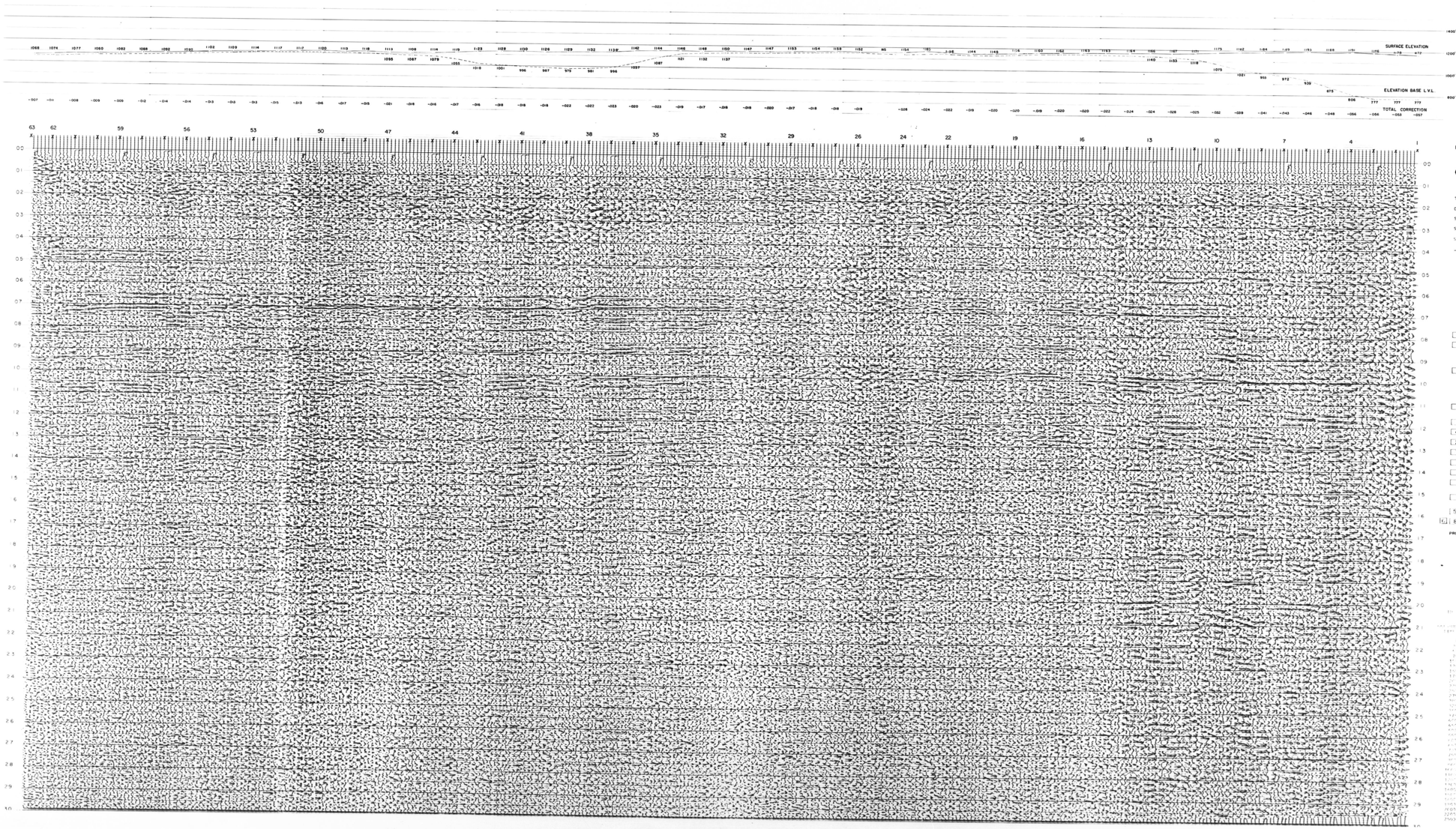
MICROMAT
105 M.M.

11x

June 1974

076-06-05-030

076-06-05-030



LINE 2(PT 1)

DIRECTION EAST

PROJECT CHICK LAKE

GREATPLAINS DEVELOPMENT COMPANY OF CANADA LTD.

Structure 1 Section Plot At

Datum Velocity 15,000'/SEC. Datum 1000' ASL

1800'-150'-150'-1800'

Spread Geophone Interval 450' Group Interval 150'

Stack 400 % 100% Coverage

Checkshots 600'TO 010 750'TO 050 @ 1800' TO 150 SECS.

TAPERED BETWEEN

	PLAYBACK DATA	RECORDING DATA
INSTRUMENTS	I.B.M. 360/44 PL 608	
AMPLIFIER TYPE	P.T. 100	
FILTER	OUT-1/100	
AUTOMATIC GAIN CONTROL	OFF	
MIX	NIL	

DIGITAL PROCESSING

[3] FILTER TIME 0.0 3.0 SPECTRUM 30/100 HZ WITH NOTCH

[ ] FILTER TIME 1 SPECTRUM HZ WITH NOTCH
TIME 2 SPECTRUM HZ WITH NOTCH
TIME 3 SPECTRUM HZ WITH NOTCH

[ ] DECONVOLUTION [ ] Trace or [ ] Time Variant [ ] Wiener [ ] Short Operator [ ] Spiking Filter
W.L. WINDOW SPECTRUM HZ
A.G. WINDOW SPECTRUM HZ
OPERATOR LENGTH 10% OPERATOR NOISE %
MERGE ZONE MS

[ ] AMPLITUDE RECOVERY SPHERICAL DIVERGENCE
TIME DEPENDENT GAIN
TIME AMPLITUDE AT

[ ] NMO

[4] TRACE GATHER STATICS BY [ ] TXL [X] CLIENT

[2] FULLY CORRECTED W/CALCSTATS

[7] STACK

[ ] ADDITIONAL STATICS & OMITS

[ ] MINIMOVE, REVISED NMO

[ ] MULTI-CHANNEL FILTER - TYPE
AMOUNT WINDOW LENGTH MS

[ ] AUTOCORRELOGRAM
START END INCR. BLKS. LENGTH

[5] AVAMP 400 MS.

[6] [8] R.S.E. 0.2-1.2 W/10 LAGS

PROJECT SURVEYED BY WESTERN GEOPHYSICAL COMPANY PARTY F-35

SECTION PROCESSED BY

DATE MAY 28 1973

TXL

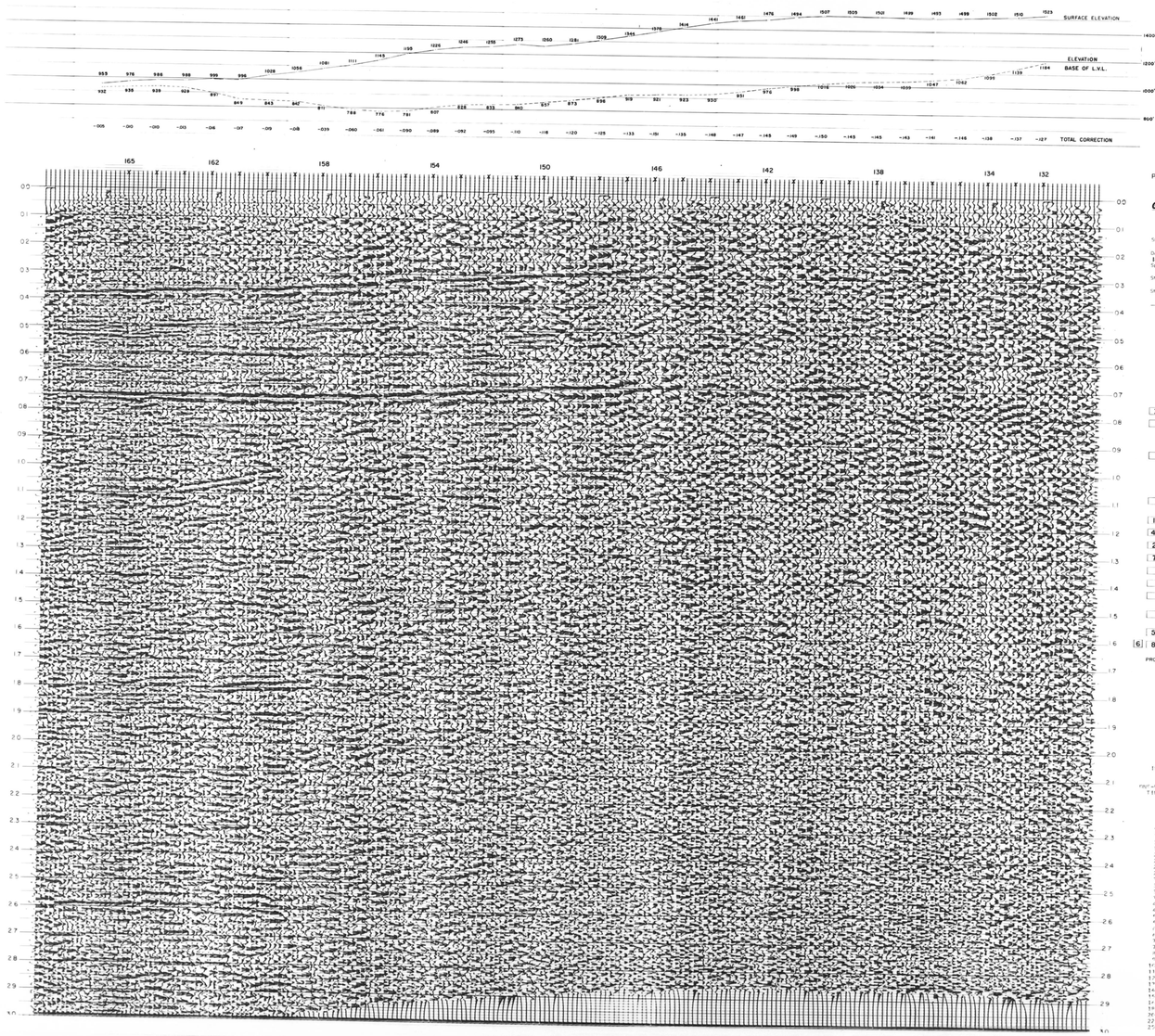
SHOT	RECEIVER	DISTANCE	X	ELEVATION	STATICS	RESIDUAL

076-06-06-030

WEST CANADIAN GRAPHIC INDUSTRIES LTD.
810 - 5th Avenue S.W. CALGARY 1, ALBERTA
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MICROMAT
105 M.M.

11x June 1974



076-06-06-030

LINE 2 (PT II)

DIRECTION EAST

PROJECT CHICK LAKE

GREATPLAINS DEVELOPMENT COMPANY OF CANADA LTD.

Structural ✓ Vibtrain Flat At

Datum Velocity 16,000'/SEC Datum 1000'ASL

Spread 1800'-150'-150'-1800' Shotpoint Interval 450' Group Interval 150'

Stack 400 %, 100% Coverage

Stackmutes 600' TO 010 , 750' TO 050 & 1800' TO 150 SECS.

TAPERED BETWEEN

	PLAYBACK DATA	RECORDING DATA
INSTRUMENTS	I.B.M. 360/44 PL 608	
AMPLIFIER TYPE	PT 100	
FILTER	OUT-1/100	
AUTOMATIC GAIN CONTROL	OFF	
MIX	NIL	

DIGITAL PROCESSING

[3] FILTER TIME .00 .30 SPECTRUM 30,100 Hz WITH/.....NOTCH

[ ] FILTER TIME 1 ..... SPECTRUM 1 ..... Hz WITH/.....NOTCH
TIME 2 ..... SPECTRUM 2 ..... Hz WITH/.....NOTCH
TIME 3 ..... SPECTRUM 3 ..... Hz WITH/.....NOTCH
TIME 4 ..... SPECTRUM 4 ..... Hz WITH/.....NOTCH

[ ] DECONVOLUTION [ ] Space Var [ ] Time & Space Var [ ] Least Squares [ ] Inverse Filter
A/C WINDOW 1 ..... SPECTRUM 1 ..... Hz
A/C WINDOW 2 ..... SPECTRUM 2 ..... Hz
OPERATOR LENGTH ..... ms OPERATOR INTERVAL ..... ms
WHITE LEVEL ..... %

[ ] AMPLITUDE RECOVERY SPHERICAL DIVERGENCE [ ]
DATA DEPENDENT GAIN [ ]
FIXED AMPLITUDE @ ..... [ ]

[1] NMO
[4] TRACE GATHER
[2] FULLY CORRECTED W/CALCSTATS
[7] STACK
[ ] ADDITIONAL STATICS & OMITS
[ ] MINIMOVE, REVISED NMO
[ ] MULTI-CHANNEL FILTER - TYPE .....
AMOUNT ..... WINDOW LENGTH ..... ms
[ ] AUTOCORRELOGRAM
START ..... MAX. END ..... MAX. LAGS ..... ms

STATICS BY [ ] TXL [X] CLIENT

[5] AVAMP 400 MS.
[6] [8] R.S.E. 0.2-1.2 W/10 LAGS

PROJECT SURVEYED BY WESTERN GEOPHYSICAL COMPANY PARTY F-35

SECTION PROCESSED BY

DATE MAY 25 1973

TXL

ID = 1 DISTANCE = 1450

TIME-USEY TIPS	DEPTH	INSTANT VELOCITY	RMS VELOCITY	AVERAGE VELOCITY	CENTER TIME	FREQUENCY TIME
5	40	16000	16000	16000	10	110
70	611	16053	16026	16027	90	130
85	869	17070	16085	16068	100	160
95	1329	19400	16269	16264	150	150
105	1795	19654	16503	16494	200	220
115	2336	20960	16695	16677	250	260
125	2617	21130	16825	16813	300	330
135	3004	22769	16961	16938	350	330
145	3731	25283	17093	17060	400	410
155	4231	27102	17257	17195	450	450
165	4493	28035	17424	17344	500	490
175	4632	28494	17589	17498	550	462
185	4733	28788	17754	17654	600	467
195	4779	28958	17917	17809	650	474
205	4791	29008	18079	17962	700	474
215	4791	29030	18239	18113	750	474
225	4791	29030	18397	18262	800	474
235	4791	29030	18553	18409	850	474
245	4791	29030	18707	18554	900	474
255	4791	29030	18859	18697	950	474
265	4791	29030	19010	18838	1000	474
275	4791	29030	19159	18977	1050	474
285	4791	29030	19307	19114	1100	474
295	4791	29030	19453	19249	1150	474
305	4791	29030	19597	19383	1200	474
315	4791	29030	19740	19514	1250	474
325	4791	29030	19881	19644	1300	474
335	4791	29030	20021	19772	1350	474
345	4791	29030	20159	19898	1400	474
355	4791	29030	20296	20023	1450	474
365	4791	29030	20432	20146	1500	474
375	4791	29030	20566	20268	1550	474
385	4791	29030	20699	20388	1600	474
395	4791	29030	20831	20507	1650	474
405	4791	29030	20962	20625	1700	474
415	4791	29030	21091	20741	1750	474
425	4791	29030	21220	20856	1800	474
435	4791	29030	21347	20970	1850	474
445	4791	29030	21473	21083	1900	474
455	4791	29030	21598	21195	1950	474
465	4791	29030	21722	21306	2000	474
475	4791	29030	21845	21416	2050	474
485	4791	29030	21967	21525	2100	474
495	4791	29030	22088	21633	2150	474
505	4791	29030	22208	21740	2200	474
515	4791	29030	22327	21846	2250	474
525	4791	29030	22445	21951	2300	474
535	4791	29030	22562	22055	2350	474
545	4791	29030	22678	22158	2400	474
555	4791	29030	22793	22260	2450	474
565	4791	29030	22907	22361	2500	474
575	4791	29030	23020	22461	2550	474
585	4791	29030	23132	22560	2600	474
595	4791	29030	23243	22658	2650	474
605	4791	29030	23353	22755	2700	474
615	4791	29030	23462	22851	2750	474
625	4791	29030	23570	22946	2800	474
635	4791	29030	23677	23040	2850	474
645	4791	29030	23783	23133	2900	474
655	4791	29030	23888	23225	2950	474
665	4791	29030	23992	23316	3000	474
675	4791	29030	24095	23406	3050	474
685	4791	29030	24197	23495	3100	474
695	4791	29030	24298	23583	3150	474
705	4791	29030	24398	23670	3200	474
715	4791	29030	24497	23756	3250	474
725	4791	29030	24595	23841	3300	474
735	4791	29030	24692	23925	3350	474
745	4791	29030	24788	24008	3400	474
755	4791	29030	24883	24090	3450	474
765	4791	29030	24977	24171	3500	474
775	4791	29030	25070	24251	3550	474
785	4791	29030	25162	24330	3600	474
795	4791	29030	25253	24408	3650	474
805	4791	29030	25343	24485	3700	474
815	4791	29030	25432	24561	3750	474
825	4791	29030	25520	24636	3800	474
835	4791	29030	25607	24710	3850	474
845	4791	29030	25693	24783	3900	474
855	4791	29030	25778	24855	3950	474
865	4791	29030	25862	24926	4000	474
875	4791	29030	25945	24996	4050	474
885	4791	29030	26027	25065	4100	474
895	4791	29030	26108	25133	4150	474
905	4791	29030	26188	25200	4200	474
915	4791	29030	26267	25266	4250	474
925	4791	29030	26345	25331	4300	474
935	4791	29030	26422	25395	4350	474
945	4791	29030	26498	25458	4400	474
955	4791	29030	26573	25520	4450	474
965	4791	29030	26647	25581	4500	474
975	4791	29030	26720	25641	4550	474
985	4791	29030	26792	25700	4600	474
995	4791	29030	26863	25758	4650	474
1005	4791	29030	26933	25815	4700	474
1015	4791	29030	27002	25871	4750	474
1025	4791	29030	27070	25926	4800	474
1035	4791	29030	27137	25980	4850	474
1045	4791	29030	27203	26033	4900	474
1055	4791	29030	27268	26085	4950	474
1065	4791	29030	27332	26136	5000	474
1075	4791	29030	27395	26186	5050	474
1085	4791	29030	27457	26235	5100	474
1095	4791	29030	27518	26283	5150	474
1105	4791	29030	27578	26330	5200	474
1115	4791	29030	27637	26376	5250	474
1125	4791	29030	27695	26421	5300	474
1135	4791	29030	27752	26465	5350	474
1145	4791	29030	27808	26508	5400	474
1155	4791	29030	27863	26550	5450	474
1165	4791	29030	27917	26591	5500	474
1175	4791	29030	27970	26631	5550	474
1185	4791	29030	28022	26670	5600	474
1195	4791	29030	28073	26708	5650	474
1205	4791	29030	28123	26745	5700	474
1215	4791	29030	28172	26781	5750	474
1225	4791	29030	28220	26816	5800	474
1235	4791	29030	28267	26850	5850	474
1245	4791	29030	28313	26883	5900	474
1255	4791	29030	28358	26915	5950	474
1265	4791	29030	28402	26946	6000	474
1275	4791	29030	28445	26976	6050	474
1285	4791	29030	28487	27005	6100	474
1295	4791	29030	28528	27033	6150	474
1305	4791	29030	28568	27060	6200	474
1315	4791	29030	28607	27086	6250	474
1325	4791	29030	28645	27111	6300	474
1335	4791	29030	28682	27135	6350	474
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1355	4791	29030	28753	27180	6450	474
1365	4791	29030	28787	27201	6500	474
1375	4791	29030	28820	27221	6550	474
1385	4791	29030	28852	27240	6600	474
1395	4791	29030	28883	27258	6650	474
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1495	4791	29030	29138	27383	7150	474
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1515	4791	29030	29177	27396	7250	474
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1545	4791	29030	29228	27408	7400	474
1555	4791	29030	29243	27410	7450	474
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1585	4791	29030	29282	27410	7600	474
1595	4791	29030	29293	27408	7650	474
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1755	4791	29030	29333	27240	8450	474
1765	4791	29030	29327	27221	8500	474
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1815	4791	29030	29282	27111	8750	474
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1835	4791	29030	29257	27060	8850	474
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1975	4791	29030	28970	26591	9550	474
1985	4791	29030	28942	26550	9600	474
1995	4791	29030	28913	26508	9650	474
2005	4791	29030	28883	26465	9700	474
2015	4791	29030	28852	26421	9750	474
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2095	4791	29030	28568	26033	10150	474
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2595	4791	29030	25343	22170	12650	474
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3145	4791	29030	18877	15130	15400	474
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3965	4791	29030	602	-983	19500	474
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3995	4791	29030	-319	-1700	19650	474
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4025	4791	29030	-1258	-2426	19800	474
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4045	4791	29030	-1894	-2915	19900	474
4055	4791	29030	-2215	-3161	19950	474
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4075	4791	29030	-2863	-3656	20050	474
4085	4791	29030	-3190	-3905	20100	474
4095	4791	29030	-3519	-4155	20150	474
4105	4791	29030	-3850	-4406	20200	474
4115	4791	29030	-4183	-4658	20250	474
4125	4791	29030	-4518	-4911	20300	474

SEFEL J. & ASSOCIATES
DATA PROCESSING CONSULTANTS

CHICK LAKE
PROSPECT

GREAT PLAINS DEVELOPMENT COMPANY OF CANADA LTD.
CLIENT

3 — LINE No

NE → — DIRECTION

DATA PREPARATION BY: SEFEL J & ASSOCIATES LTD.

PARAMETER SELECTION BY: GREAT PLAINS DEV. CO. OF CANADA LTD.

RECORDED BY: WESTERN GEOPHYSICAL CO. OF CANADA LTD.

RAW	
NMO	
STACKED ISOCHRON	
STACKED STRUCTURAL	X
100% ISOCHRON	
100% STRUCTURAL	
TRACE GATHER	

SPREAD LENGTH	3600-150
	150-3600
GR. INTERVAL	150'
S.P. INTERVAL	600'
RECORD LENGTH	2500
SAMPLE INT.	2
FOLD	600%

RECORDING INSTRUMENTS	DIGITAL	ANALOG
	DFS-3	
TAPE	[X] 9 TRACK; [ ] 21 TRACK; FORMAT	[ ] TECHNO; [ ] SIE — AM; [ ] SIE — FM
GAIN	[ ] PGC; [ ] AGC; [X] BINARY	[ ] PGC; [ ] AGC; [ ] ST. GAIN
FIELD FILTER [X]	HI 124	HI
SWEEP FREQ [ ]	LOW 18/36	LOW

DIGITAL PROCESSING

PROCESS	SEQ	TYPE	OPERATION LENGTH	WINDOW
VIBROSEIS CORRELATION				
RESAMPLE				
NMO	5			
DECONVOLUTION				
FILTER (CONV)				
FILTER (M.G.)	6, 10	B.P.	320 35/100	0-2500
DMPX & GAIN RECOVERY	1			
STATIC	3	W.x		
RESIDUAL NMO				
TRACE GATHER	4			
RE STATIC	8	AUTO	± 12	400-1800
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	9			
TRACE SCALE	12			
EQUALIZE	7, 11		RM = 2000	300-1000
DISPLAY PAPER	13			
DISPLAY FILM	14			
VELOCITY ANALYSIS	2			

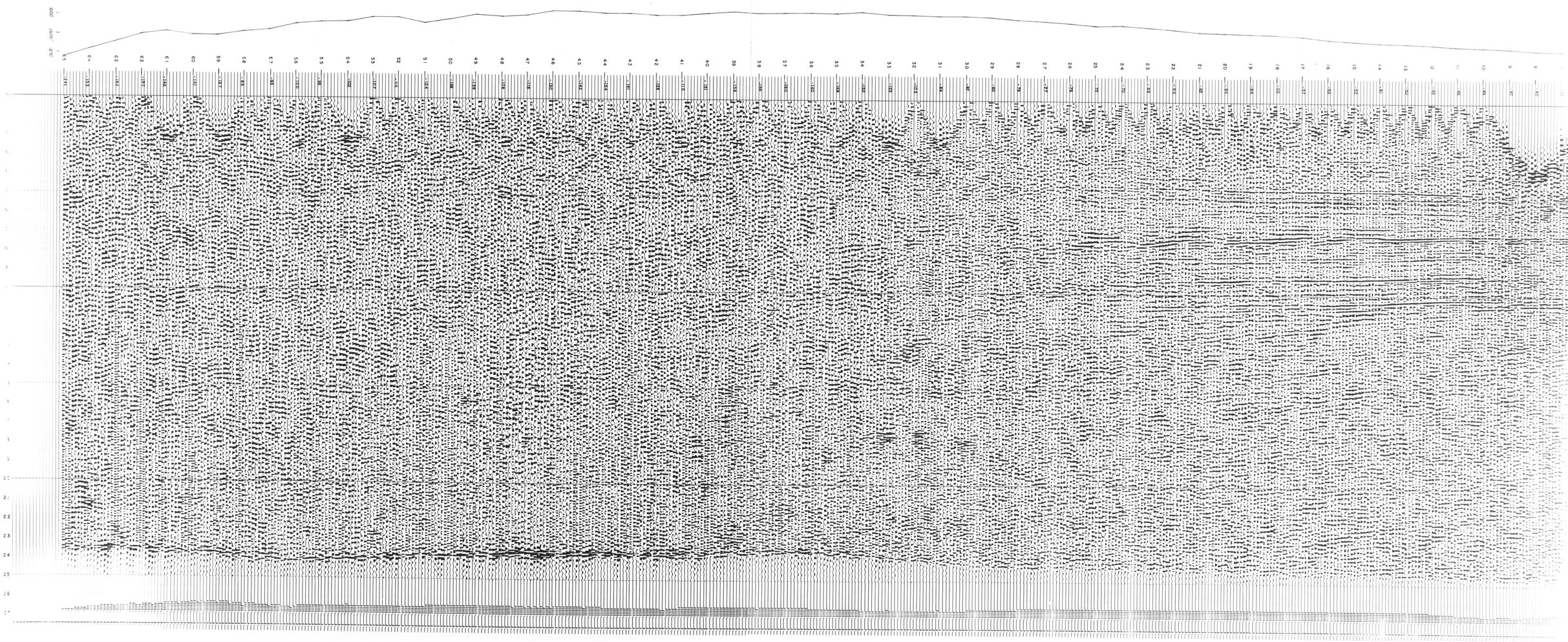
DATE JAN. 28/74 | DATUM 1000' | CORR. VELOCITY 16,000'/sec.

076-06-05-030

WEST CANADIAN GRAPHIC INDUSTRIES LTD.
810 - 5th Avenue S.W. CALGARY 1, ALBERTA
Phone 263-2555

MICROMAT
105 M.M.

11x June 1974

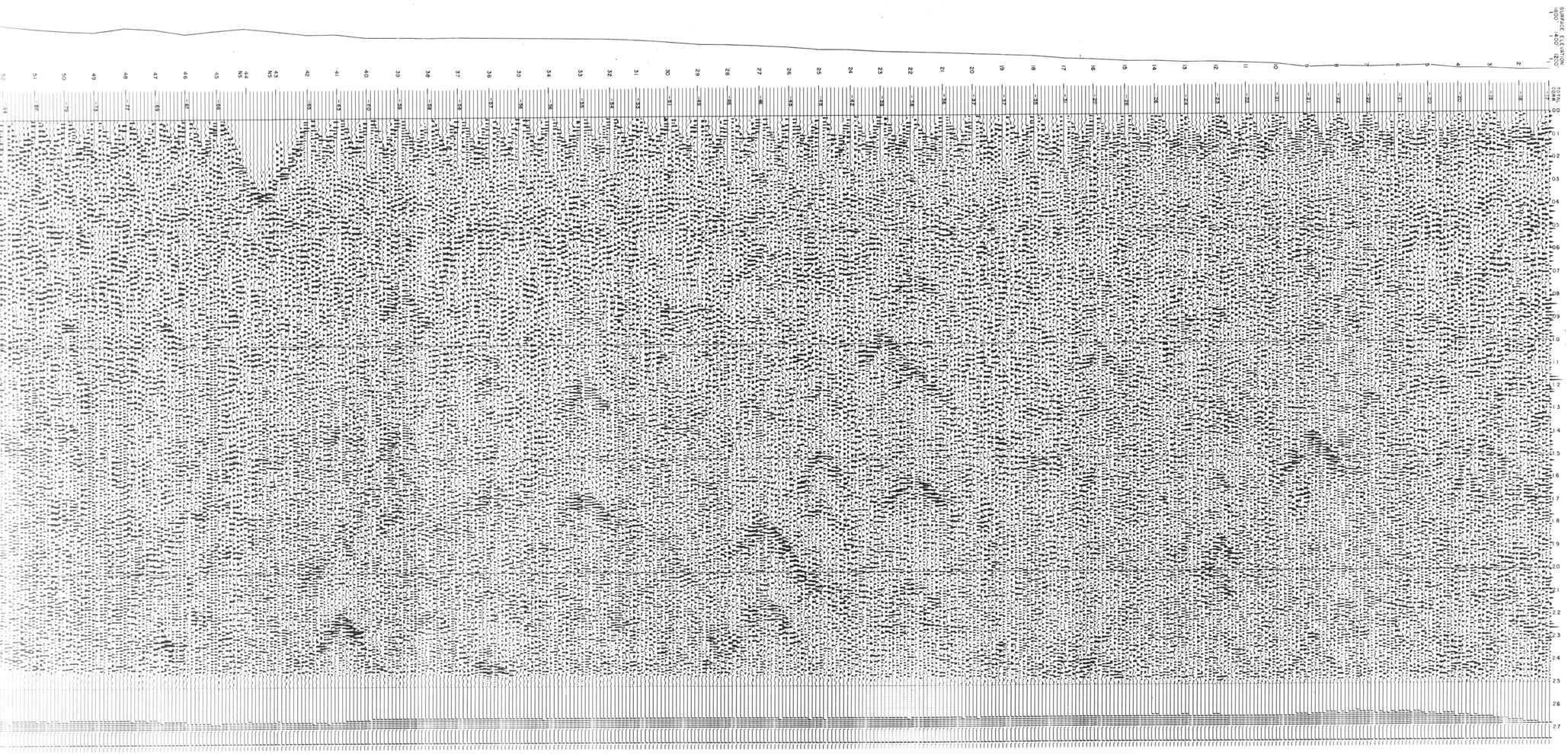


076-06-05-030

WEST CANADIAN GRAPHIC INDUSTRIES LTD.
810 - 5th Avenue S.W. CALGARY 1, ALBERTA
Phone 263-2555

MICROMAT
105 M.M.

11x June 1974



SEFEL J. & ASSOCIATES
DATA PROCESSING CONSULTANTS

PROSPECT: CHICK LAKE
CLIENT: GREAT PLAINS DEVELOPMENT COMPANY OF CANADA LTD
LINE No: 4 DIRECTION: NE
DATA PREPARATION BY: SEFEL J. & ASSOCIATES LTD.
PARAMETER SELECTION BY: GREAT PLAINS DEV. CO OF CAN. LTD.
RECORDED BY: WESTERN GEOPHYSICAL CO OF CANADA LTD

ANA		SPREAD LENGTH	3600-150
MAG			150 - 3600
STACKED SECTION		GR. INTERVAL	150
STACKED STRUCTURAL	X	S.P. INTERVAL	600
FINAL SECTION		RECORD LENGTH	2500
FINAL STRUCTURAL		SAMPLE INT.	2
TRACE GATHER		FOLD	600%

	DIGITAL		ANALOG
RECORDING INSTRUMENTS	DFS - 3		
TAPE	X 9 TRACK 7 TRACK DENSITY		TAPE SPEED TAPE
GAIN	FIXED AGC X BINARY		FIXED AGC ST. GAIN
FIELD FILTER X	Hz 124		Hz
SWEEP FREQ	LOW 18/36		LOW

DIGITAL PROCESSING

PROCESS	SEQ	TYPE	OPERATION LENGTH	WINDOW
VIBROSEIS CORRELATION				
RESAMPLE				
NMO	5			
DECONVOLUTION				
FILTER (CONV)				
FILTER (M.C.)	6,10	B P	320, 35/100	0-2500
DMPX & GAIN RECOVERY	1			
STATIC	3	W x		
RESIDUAL NMO				
TRACE GATHER	4			
RE STATIC	8	AUTO	1.12	400-1800
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	9			
TRACE SCALE	12			
EQUALIZE	7,11		RM ±2000	300-1000
DISPLAY PAPER	13			
DISPLAY FILM	14			
VELOCITY ANALYSIS	2			

DATE JAN 28/74 DATUM 1000' CORR. VELOCITY 16/2000'sec

076-06-05-030

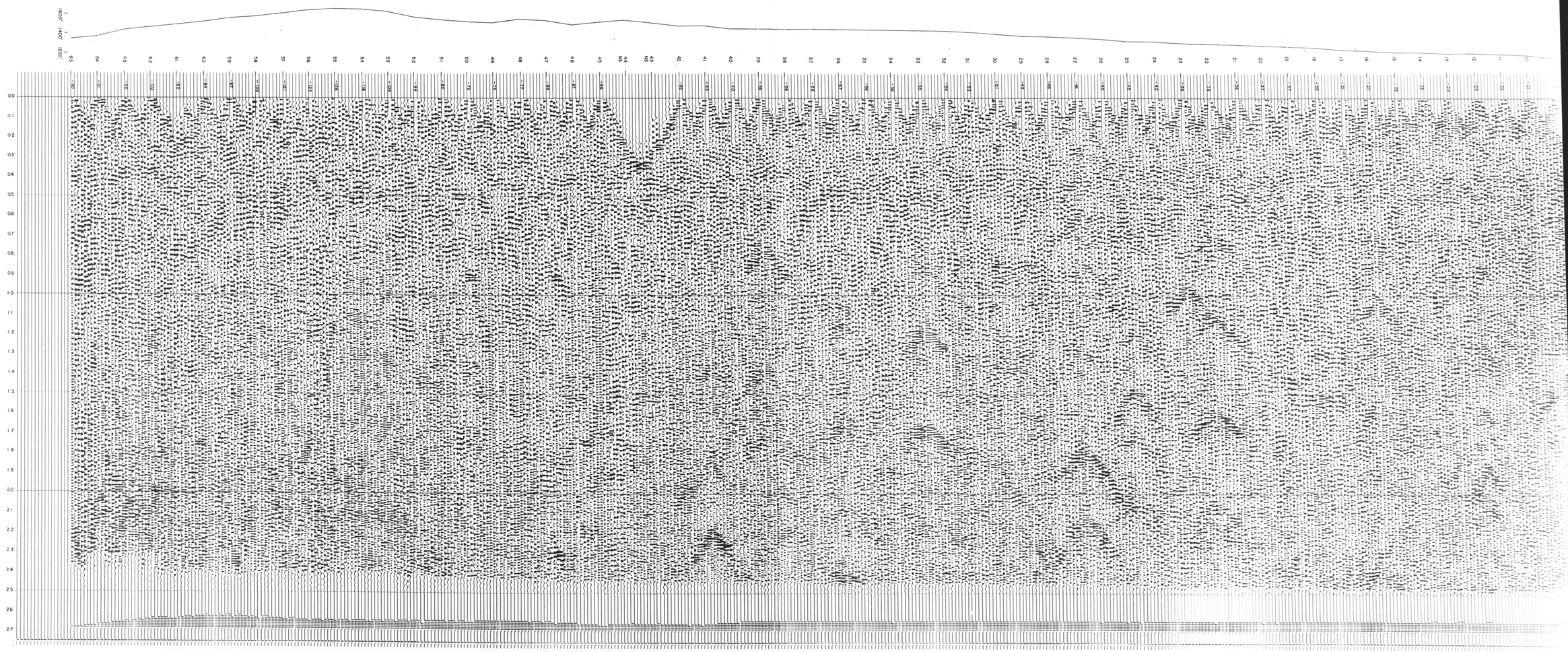
076-06-05-030

WEST CANADIAN GRAPHIC INDUSTRIES LTD.
810 - 5th Avenue S.W. CALGARY 1, ALBERTA
Phone 263-2555

MICROMAT
105 M.M.

11x

June 1974

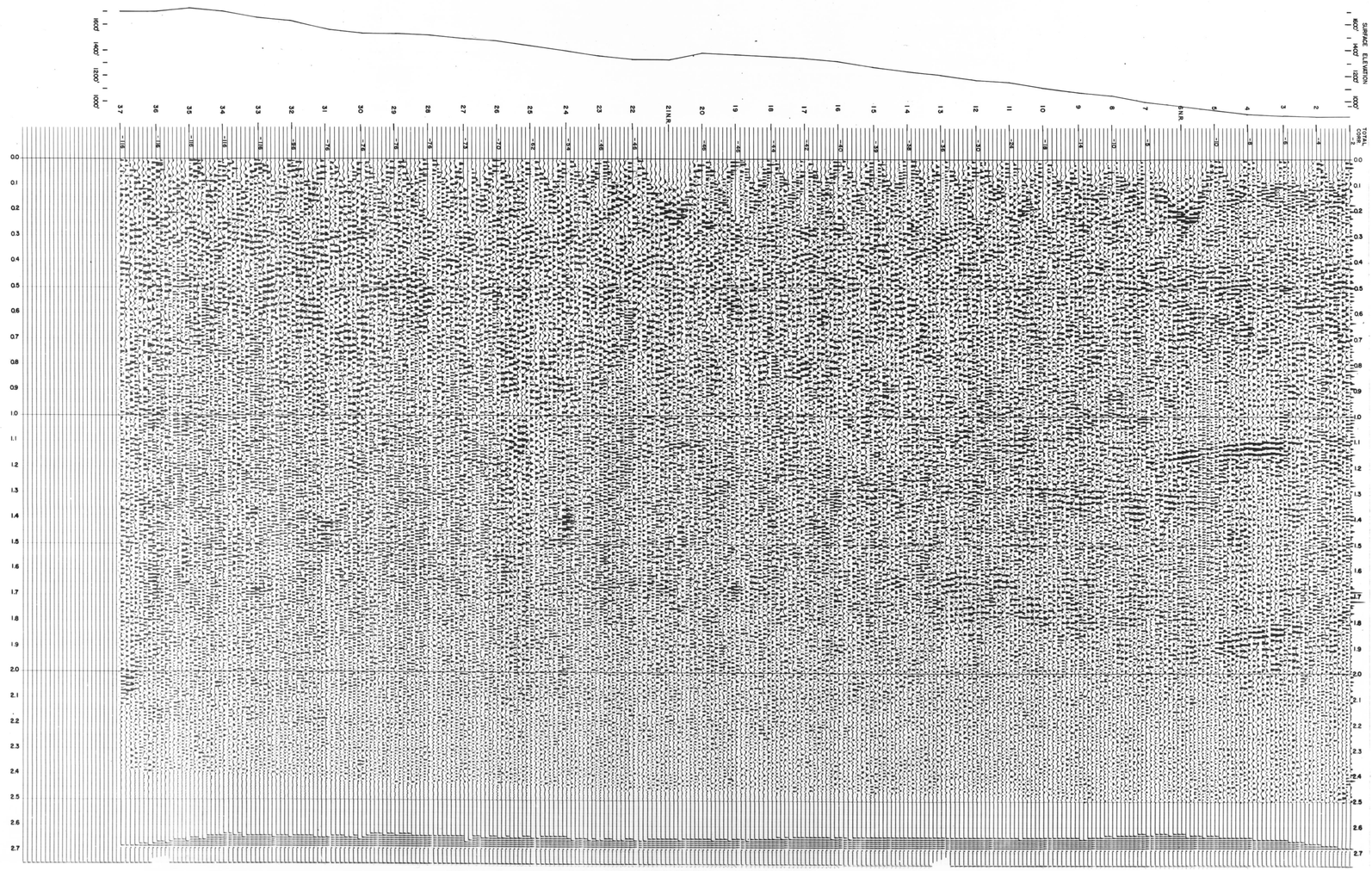


076-06-05-030

WEST CANADIAN GRAPHIC INDUSTRIES LTD.
810 - 5th Avenue S.W. CALGARY 1, ALBERTA
Phone 263-2555

MICROMAT
105 M.M.

11x June 1974



SEFEL J. B ASSOCIATES
DATA PROCESSING CONSULTANTS

CHICK LAKE
PROSPECT
GREAT PLAINS DEVELOPMENT COMPANY OF CANADA LTD
CLIENT
5 LINE No. NE DIRECTION
DATA PREPARATION BY SEFEL J. B ASSOCIATES LTD.
PARAMETER SELECTION BY GREAT PLAINS DEV. CO. OF CAN. LTD.
RECORDED BY WESTERN GEOPHYSICAL CO. OF CANADA LTD.

MIN		SPREAD LENGTH	3600-150
MAX			150 - 3600
STACKED 12/CHAN.		GR. INTERVAL	150'
STACKED STRUCTURAL	X	S.P. INTERVAL	600'
100% COVERAGE		RECORD LENGTH	2500
100% STRUCTURAL		SAMPLE INT.	2
TRACE GATHER		FOLD	600%

	DIGITAL	ANALOG
RECORDING INSTRUMENTS	DFS-3	
TAPE	[X] 9 TRACK [ ] 7 TRACK [X] DENSITY 1600 [X] BINARY	[ ] TECHNIRAD SCB - FM [ ] SIE - FM [ ] FREQ [ ] MOD [ ] ST. SKIN
GAIN		
FIELD FILTER [X]	HI 124	HI
SWEEP FREQ [ ]	LOW 8/56	LOW

DIGITAL PROCESSING

PROCESS	SEQ	TYPE	OPERATION LENGTH	WINDOW
VIBROSEIS CORRELATION				
RESAMPLE				
NMO	5			
DECONVOLUTION				
FILTER (CONV)				
FILTER (M.G.)	6,10	B P	320,35/50	0-2500
DMPX & GAIN RECOVERY	1			
STATIC	3	W x		
RESIDUAL NMO				
TRACE GATHER	4			
RESIDUAL STATIC	8	AUTO	± 12	400-1800
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	9			
TRACE SCALE	12			
EQUALIZE	7,11		RM = 2000	300-1000
DISPLAY PAPER	13			
DISPLAY FILM	14			
VELOCITY ANALYSIS	2			

DATE JAN 28/74 DATUM 1000' CORR. VELOCITY 16,000'/sec

076-06-06-030

SEFEL J. & ASSOCIATES
DATA PROCESSING CONSULTANTS

CHICK LAKE
PROSPECT

GREAT PLAINS DEVELOPMENT COMPANY OF CANADA LTD.
CLIENT

6
LINE No

NE →
DIRECTION

DATA PREPARATION BY SEFEL J. & ASSOCIATES LTD.
PARAMETER SELECTION BY GREAT PLAINS DEV. CO. OF CAN. LTD.
RECORDED BY WESTERN GEOPHYSICAL CO. OF CANADA LTD.

RAW	
NMO	
STACKED ISOCHRON	
STACKED STRUCTURAL	X
100% ISOCHRON	
100% STRUCTURAL	
TRACE GATHER	

SPREAD LENGTH	3600-150 150-3600
GR INTERVAL	150'
S.P INTERVAL	600'
RECORD LENGTH	2500
SAMPLE INT	2
FOLD	600%

RECORDING INSTRUMENTS	DIGITAL	ANALOG
	DFS - 3	
TAPE	[X] 9 TRACK [ ] 21 TRACK FORMAT	[ ] TECHNO [ ] SIE - AM [ ] SIE - FM
GAIN	[ ] PGC [ ] AGC [X] BINARY	[ ] PGC [ ] AGC [ ] ST. GAIN
FIELD FILTER [X]	HI 124	HI
SWEEP FREQ. [ ]	LOW 18/36	LOW

DIGITAL PROCESSING

PROCESS	SEQ.	TYPE	OPERATION LENGTH	WINDOW
VIBROSEIS CORRELATION				
RESAMPLE				
NMO	5			
DECONVOLUTION				
FILTER (CONV)				
FILTER (M.G.)	6,10	B. P.	320, 35/100	0-2500
DMPX & GAIN RECOVERY	1			
STATIC	3	Wx.		
RESIDUAL NMO				
TRACE GATHER	4			
RE STATIC	8	AUTO	± 12	400-1800
PHASE ALIGNMENT				
CORRELATION ALIGNMENT				
STACK	9			
TRACE SCALE	12			
EQUALIZE	7,11		RM = 2000	300-1000
DISPLAY PAPER	13			
DISPLAY FILM	14			
VELOCITY ANALYSIS	2			

DATE JAN. 28/74. DATUM 1000' CORR. VELOCITY 16,000'/sec.

INTRODUCTION

Kelly Lake is located approximately 20 miles northeast of Norman Wells, Northwest Territories.

The seismic survey was conducted by Western Geophysical Company of Canada, Ltd., License No. 10956, working on behalf of Great Plains Development Company of Canada, Ltd., Permit No. N73B 358.

The work periods were April 3 through April 12, 1973 and November 27 through December 15, 1973. There were normally 51 men including all contractors involved in the field survey and these were stationed in portable camps on the prospect. Data preparation for the program shot in the Spring was done by Western Geophysical Company in their Calgary office.

The operation was under the supervision of Mr. C. Dittrich representing Great Plains, and Mr. L.M. Herrington of Western Geophysical. The Party Manager in the Spring was Ed Lorenowicz and in the Fall was Dewey Holt.

Bulldozing operations were contracted by MacMillan Construction (Peace River) Ltd. of Peace River, Alberta.

Catering was provided by Western Geophysical, owners of the seismic camp.

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GENERAL LOCATION MAPS.	PLATE 1
SPREAD AND GEOPHONE CONFIGURATION.	PLATE 2

LITHOLOGY

Average hole depth was 43 feet. Drilling was slow due to the very hard formations encountered. Limestone was predominate throughout the area with up to three feet of muskeg. In some places there were some shows of gravel near riverbeds. Holes were loaded with ten pounds of powder except in holes of fifteen feet or less where only five pounds was used. Shallow holes were mainly due to gravel.

SURVEY AND BULLDOZING

The survey crew utilized two T-16 theodolites. Elevations were based on altimeter readings carried from Norman Wells by aircraft. Horizontal control was derived from topographic features.

All production lines and access in the prospect were newly bulldozed and all airstrips used were on lakes. Line Clean Up operations were contracted by Fred Clement of Norman Wells and were completed at the same time as the seismic survey.

TECHNIQUES

FIELD:

In the Spring, coverage of 400 percent was obtained by drilling single shotpoints every 450 feet and recording from 24 groups of geophones laid out at intervals of 150 feet. Each group consisted of 18 geophones which were set out in a straight line. Twelve groups either side of the shotpoint were recorded with the one group over the hole not recorded. The recording instruments were 24 trace, digital type, Model DFS-III and were manufactured by Texas Instruments Inc. Seismometer type was Mark L-10, 10 cycle.

In the Fall, subsurface coverage was increased to 600 percent with shotpoints located every fourth group. This was made possible by changing to a 48 trace recording system. This recorder was also a Model DFS-III. Twenty-four groups either side of the shotpoint were recorded. All other parameters remained the same.

Also in the Fall, a Gravity Survey was conducted. One man using a Stromberg-Carlson gravimeter and driving a bombardier ran gravity over five of the six lines in the prospect. A base was set in the area from the established value in Norman Wells and further bases were then set out.

LOGISTICS

At the beginning the camp and vehicles were trucked part way and then driven the rest of the way from the Wrigley Area. The move was hampered by warming weather, thawing creeks and rivers which caused a later start than was originally planned. Completion of the program in the Spring was thus impossible and was delayed until Fall.

Fuel and supplies for the camp were brought in by plane in the Spring. Aircraft used were a four-seater Cessna 185 with a one thousand pound capacity, and a nine-seater Islander with a two thousand pound capacity. For the fuel haul the Islander was fitted with a 250 gallon bladder. The Cessna was ski-equipped. In the Fall there was insufficient ice on the lakes and helicopters were used. Since no direct land routes exist between Norman Wells and the prospect, aircraft proved to be the best means of supplying the camp.

A full time expediter was on duty in Norman Wells with communication to camp via single sideband radio and VHF radio telephone. Storage space was used for groceries and parts in transit from Calgary, and also to stock spare parts for equipment on the crew.

BULLDOZING CREW: 8 Men

2 - D-6 Cats

1 - D-7 Cat

1 - Kitchen/Diner, sleigh mounted

1 - Kitchen/Diner/Sleeper (4 man)

1 - Sleeper (12 man)

2 - Fuel Sloops

1 - Bombardier Personnel Carrier

EQUIPMENT AND PERSONNEL

RECORDING CREW: 12 Men

1 - Recording Unit, track mounted

1 - Shooting Unit, track mounted

2 - Cable Units, track mounted

SURVEY CREW: 4 Men

1 - Survey Unit, track mounted

DRILLING CREW: 14 Men

7 - Drills, (5 in the Spring)

CAMP: 9 Men

1 - Party Manager Unit, half track

1 - Supply Unit

1 - Kitchen/Diner/Sleeper (6 man) powered

1 - Utility/Sleeper (12 man) powered

1 - Office/Sleeper (16 man)

1 - Sleeper (9 man)

1 - Shop Unit, powered

1 - Power Trailer

2 - Fuel Sloops

1 - Powder Magazine, track mounted

1 - Propane Sloop

GRAVITY: 1 Man

1 - Bombardier

STATISTICS

Production:

Profiles	631
Miles recorded	63.23
Coverage per production day	2.55
Number of holes drilled	631
Total footage drilled	26,695
Average hole depth (feet)	42.8
Pounds of dynamite used	6420
Pounds of dynamite per hole	9.94

The foregoing report is respectfully submitted by

WESTERN GEOPHYSICAL COMPANY OF CANADA, LTD.

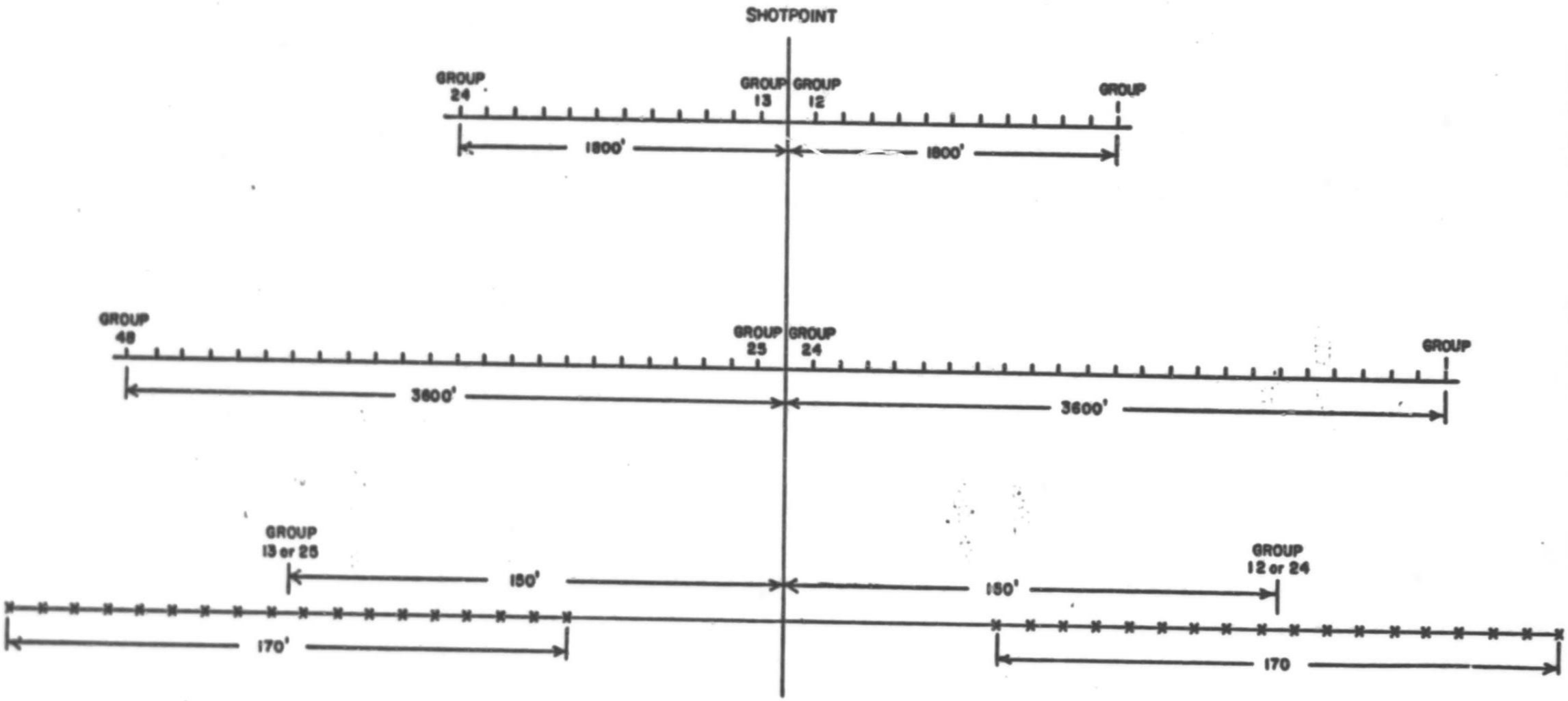
L M Herrington

L.M. Herrington - Supervisor

15 Nov. 1976

Date

PLATE 2



SHOTPOINT INTERVAL FOR 24 TRACE RECORDING	450'
SHOTPOINT INTERVAL FOR 48 TRACE RECORDING	600'
GROUP INTERVAL	150'
GROUP LENGTH	170'
GEOPHONES PER TRACE	24
SHOT HOLE PATTERN	SINGLE HOLE

SPREAD AND GEOPHONE CONFIGURATION