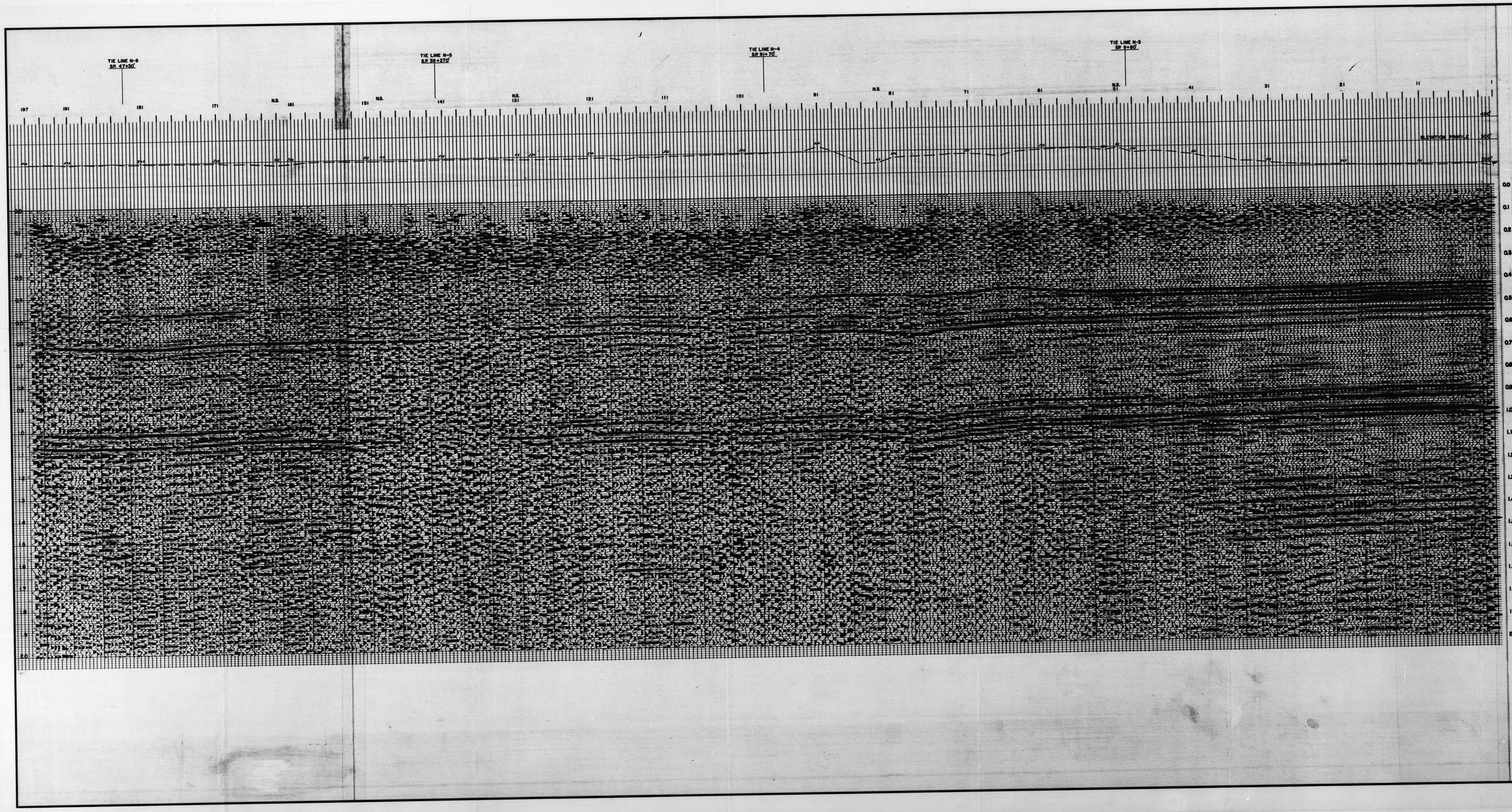
October 1973

11x

MICROMAT
105 M.M.

WEST CANADIAN GRAPHIC INDUSTRIES LTD.
810 - 5th Avenue S.W. CALGARY 1, ALBERTA
Phone 263-2535

-6-5-1



NORTHERN GEOPHYSICAL LTD.

LINE: N-1 507-06-05-001
DIRECTION: → EAST
PROJECT: CARCAJOU
SHOT FOR: CANADIAN INDUSTRIAL GAS & OIL LTD.
SHOOTING DATE: 3/73 PROCESSING DATE: 4/73

FIELD INFORMATION

SHOT BY: PARTY N-3

SPREAD: 24 trace, 32 ch spl
Min. Offset: 448'
Max. Offset: 2960'
GROUP INTERVAL: 20'
SEIS/GROUP: 8 covering 280'

S.P. INTERVAL: 440'
SHOT PATTERN: 2 over 100'
SHOT DEPTH: 50'
AVERAGE CHARGE: 5 lbs
SEIS. TYPE: L-2-1M-v

AMPLIFIERS: PT - 800
TAPE SYSTEM: FDR - 89
FILTER: 18-154

GAIN: BINARY
TAPE: 9 TRACK
FORMAT: SIE / FDR-89/SEGA

PROCESSED BY DIGITECH LTD.

[1] DDC
INPUT TYPE: SEGA
SAMPLE RATE: 2 ms
No. of SAMPLES: 1000

[ ] VIBROSEIS CORRELATION
( ) FIELD SWEEP:
( ) SYNTHETIC SWEEP:

[2] RESAMPLE
TO: 4 ms

[5] [ ] DECONVOLUTION
GATE: 300-1200
LENGTH: 20 pts
NOISE SUPPRESSION: 30 %
PREDICTION LAG TIME:

[4] [ ] N.M.O.
REFERENCE:

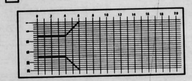
[6] [14] [ ] [ ] DIGITAL FILTER
TYPE: BANDPASS
POINTS: 18
FILTER 1: 17/12-65/70
START TIME:
FILTER 2:
START TIME:
FILTER 3:
START TIME:
FILTER 4:

[3] [11] [ ] [ ] STATICS
(3) STRUCTURE DATUM: 500'
Wx. VELOCITY: 5000'/s
Sub. Wx. VELOCITY:
REPLACEMENT VELOCITY: 10,000'/s
( ) FLATTENED TO:
(11) TERMINED TO: STRUCTURE

[ ] [ ] TRACE EQUALIZATION
GATE:

[7] [15] AMPLITUDE RECOVERY
GATES:
(7) 0 - 500
300 - 900
800 - 1200
(15) 0 - 650
400 - 700
700 - 1150
850 - 2000

[10] [ ] FB MUTE

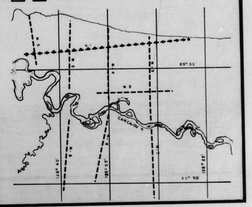


[9] [ ] TRACE GATHER
FOLD: 6/1

[13] [ ] STACK
FOLD: 6/1

[8] [16] [ ] [ ] [ ] [ ] DAC
(8) RAW:
(8) SMO:
( ) TRACE GATHER:
( ) STACKED SIGCHRON:
(16) STACKED STRUCTURAL:

[12] [ ] SPECIAL RMND: GEO-X SYSTEMS LTD



October 1973
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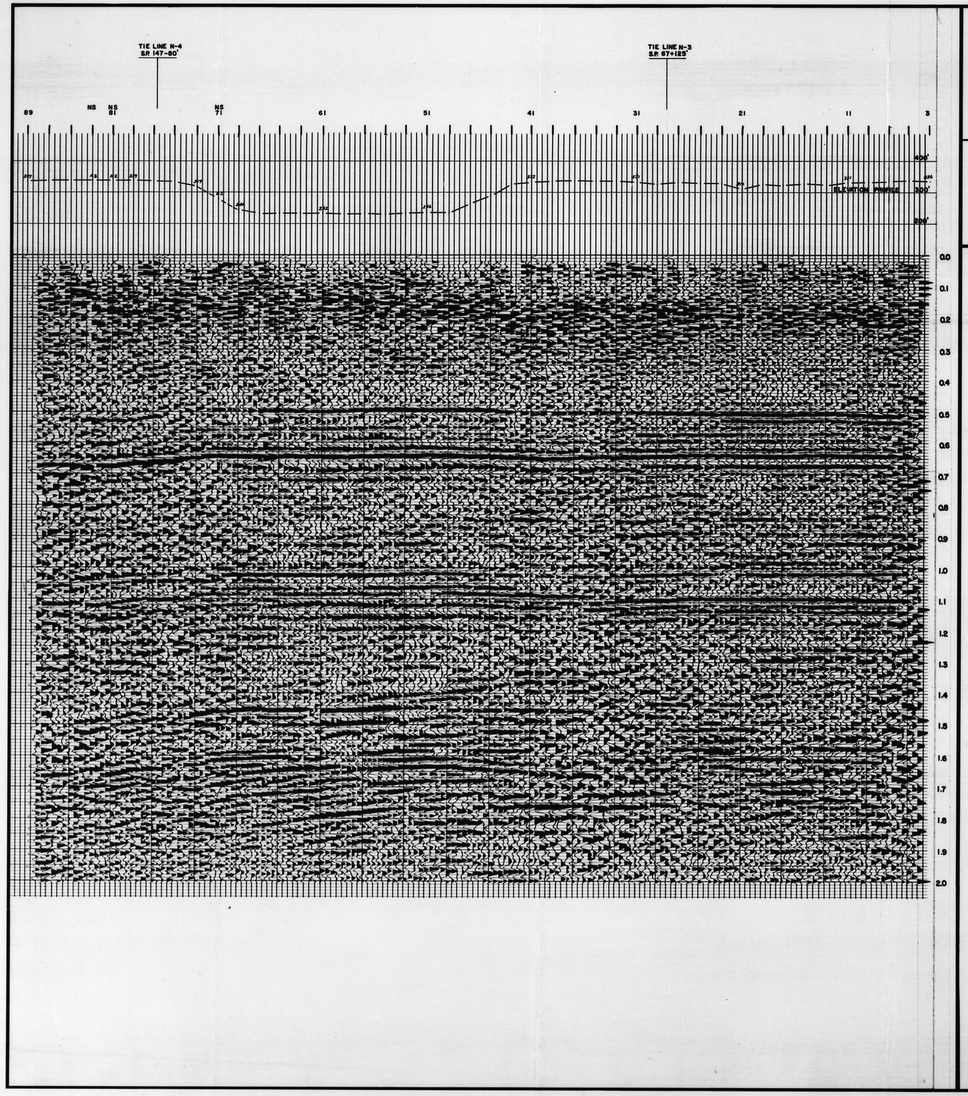
WEST CANADIAN GRAPHIC INDUSTRIES LTD.
810 - 5th Avenue S.W. CALGARY 1, ALBERTA
Phone 263-2555
5 - 1



NORTHERN GEOPHYSICAL LTD.

LINE: N-2 507-06-05-001

DIRECTION: → EAST

PROJECT: CARCAJOU

SHOT FOR: CANADIAN INDUSTRIAL GAS & OIL LTD.

SHOOTING DATE: 3/73 PROCESSING DATE: 4/73

FIELD INFORMATION

SHOT BY: PARTY N-3

SPREAD: 24 trace, 10/12 pu'
Min. Offset: 448'
Max. Offset: 2080'
GROUP INTERVAL: 220'
SEIS/GROUP: 9 covering 200'

S.P. INTERVAL: 440'
SHOT PATTERN: 2 over 100'
SHOT DEPTH: 18"
AVERAGE CHARGE: 5 lbs.
SEIS. TYPE: L-2; N-

AMPLIFIERS: PT - 900
TAPE SYSTEM: FOR - 89
FILTER: 16 - 124

GAIN: BINARY
TAPE: 9 TRACK
FORMAT: SIE / FOR-89/SEGA

PROCESSED BY DIGITECH LTD.

[1] DDC
INPUT TYPE: SEGA
SAMPLE RATE: 2 ms
No. of SAMPLES: 1000

[ ] VIBROSEIS CORRELATION
( ) FIELD SWEEP:
( ) SYNTHETIC SWEEP:

[2] RESAMPLE
TO: 4 ms

[5] [ ] DECONVOLUTION
GATE: 300 - 1200
LENGTH: 21 pts.
NOISE SUPPRESSION: 30%
PREDICTION LAG TIME:

[4] [ ] NMO
REFERENCE:

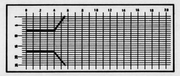
[6] [14] [ ] [ ] DIGITAL FILTER
TYPE: BANDPASS
POINTS: 50
FILTER 1: 17/22 - 85/70
START TIME:
FILTER 2:
START TIME:
FILTER 3:
START TIME:
FILTER 4:

[3] [11] [ ] [ ] STATICS
(3) STRUCTURE DATUM: 500'
Wx. VELOCITY: 2000 ft/s
SUB. Wx. VELOCITY:
REPLACEMENT VELOCITY: 10,000 ft/s
( ) FLATTENED TO:
(11) TRIMMED TO: STRUCTURE

[ ] [ ] TRACE EQUALIZATION
GATE:

[7] [15] AMPLITUDE RECOVERY
GATES:
(7) 0 - 500 (15) 0 - 550
300 - 900 400 - 750
800 - 1200 750 - 1150
900 - 1150
1150 - 2000

[10] [ ] FB MUTE

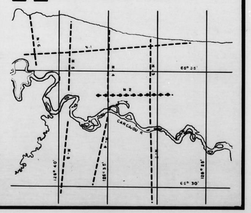


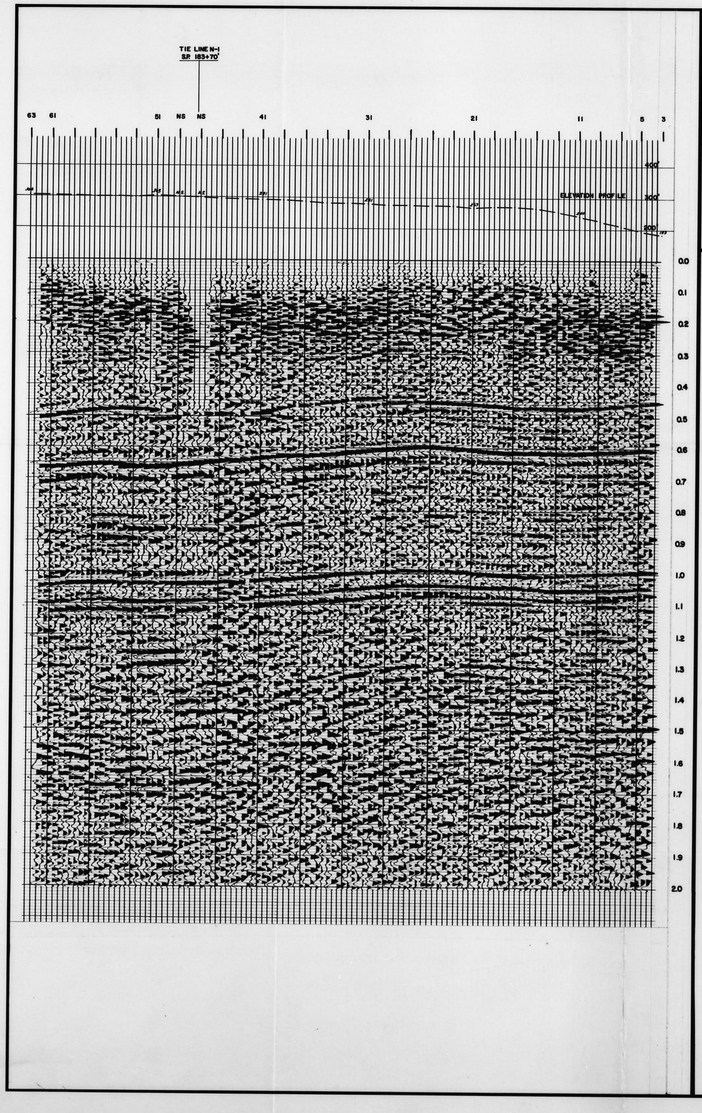
[9] [ ] TRACE GATHER
FOLD: 6/1

[13] [ ] STACK
FOLD: 6/1

[8] [16] DAC
( ) RAW:
(8) NMO:
( ) TRACE GATHER:
( ) STACKED ISOCHRON:
(16) STACKED STRUCTURAL:

[12] [ ] SPECIAL RMMO - GEO - X SYSTEMS LTD.





NORTHERN GEOPHYSICAL LTD.

LINE: N-6 507-06-05-001

DIRECTION: → NORTH

PROJECT: CARCAJOU

SHOT FOR: CANADIAN INDUSTRIAL GAS & OIL LTD.

SHOOTING DATE: 3/73 PROCESSING DATE: 4/73

FIELD INFORMATION

SHOT BY: PARTY N-3

SPREAD: 24 trace, 10/12 pu'
Min. Offset: 448'
Max. Offset: 2080'
GROUP INTERVAL: 220'
SEIS/GROUP: 9 covering 200'

S.P. INTERVAL: 440'
SHOT PATTERN: 2 over 100'
SHOT DEPTH: 18"
AVERAGE CHARGE: 5 lbs.
SEIS. TYPE: L-2; N-

AMPLIFIERS: PT - 900
TAPE SYSTEM: FOR - 89
FILTER: 16 - 124

GAIN: BINARY
TAPE: 9 TRACK
FORMAT: SIE / FOR-89/SEGA

PROCESSED BY DIGITECH LTD.

[1] DDC
INPUT TYPE: SEGA
SAMPLE RATE: 2 ms
No. of SAMPLES: 1000

[ ] VIBROSEIS CORRELATION
( ) FIELD SWEEP:
( ) SYNTHETIC SWEEP:

[2] RESAMPLE
TO: 4 ms

[5] [ ] DECONVOLUTION
GATE: 300 - 1200
LENGTH: 21 pts.
NOISE SUPPRESSION: 30%
PREDICTION LAG TIME:

[4] [ ] NMO
REFERENCE:

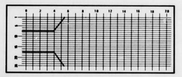
[6] [14] [ ] [ ] DIGITAL FILTER
TYPE: BANDPASS
POINTS: 50
FILTER 1: 17/22 - 85/70
START TIME:
FILTER 2:
START TIME:
FILTER 3:
START TIME:
FILTER 4:

[3] [11] [ ] [ ] STATICS
(3) STRUCTURE DATUM: 500'
Wx. VELOCITY: 2000 ft/s
SUB. Wx. VELOCITY:
REPLACEMENT VELOCITY: 10,000 ft/s
( ) FLATTENED TO:
(11) TRIMMED TO: STRUCTURE

[ ] [ ] TRACE EQUALIZATION
GATE:

[7] [15] AMPLITUDE RECOVERY
GATES:
(7) 0 - 500 (15) 0 - 550
300 - 900 400 - 750
800 - 1200 750 - 1150
900 - 1150
1150 - 2000

[10] [ ] FB MUTE

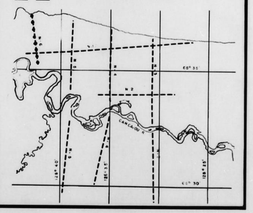


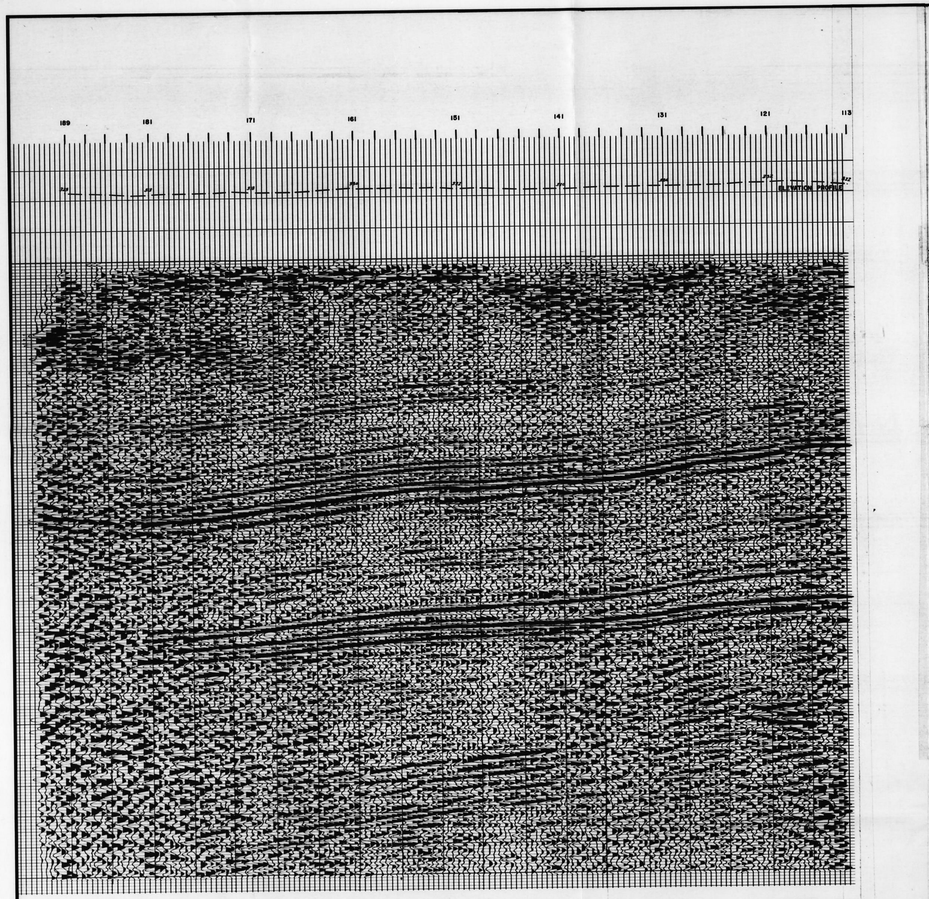
[9] [ ] TRACE GATHER
FOLD: 6/1

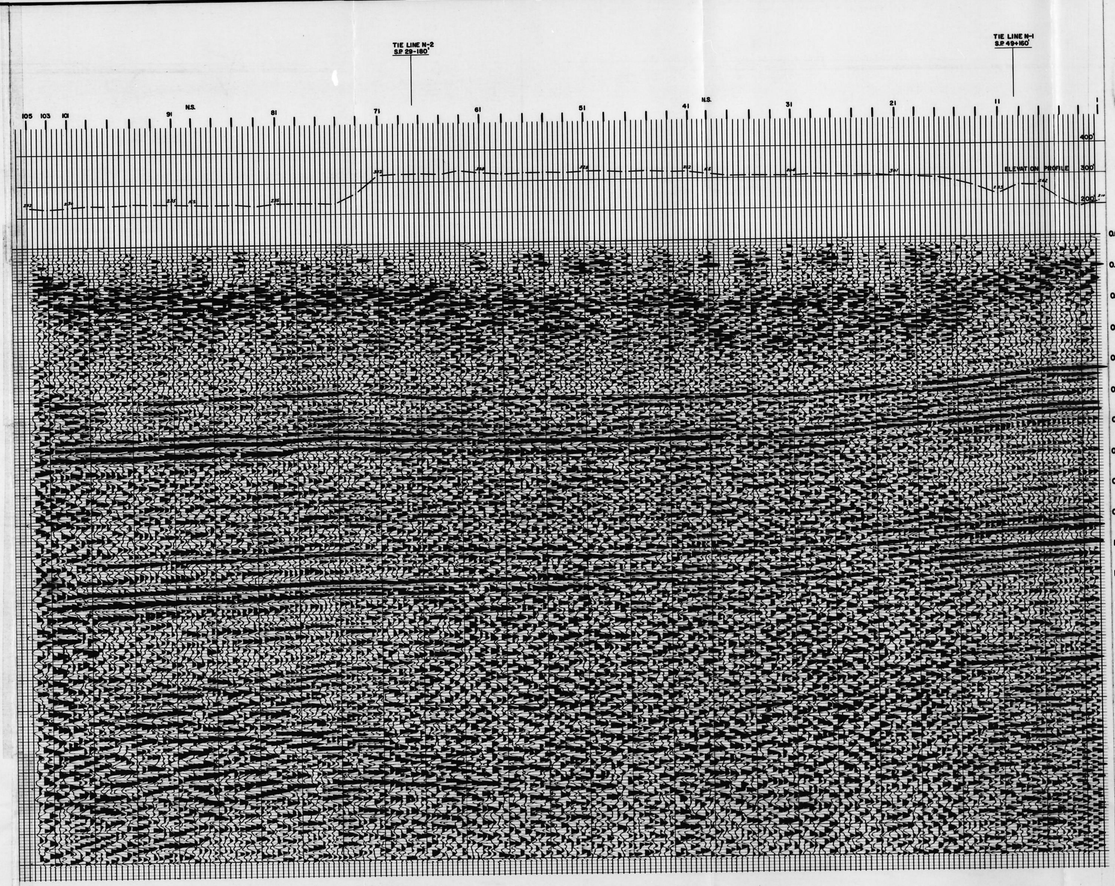
[13] [ ] STACK
FOLD: 6/1

[8] [16] DAC
( ) RAW:
(8) NMO:
( ) TRACE GATHER:
( ) STACKED ISOCHRON:
(16) STACKED STRUCTURAL:

[12] [ ] SPECIAL RMMO - GEO - X SYSTEMS LTD.







NORTHERN GEOPHYSICAL LTD.

LINE: N-3 507-06-05-001

DIRECTION: ——→ NORTH

PROJECT: CARCAJOU

SHOT FOR: CANADIAN INDUSTRIAL GAS & OIL LTD.

SHOOTING DATE: 3/73 PROCESSING DATE: 4/73

FIELD INFORMATION

SHOT BY: PARTY N-3

SPREAD: 24 trace, 12/12 split
Min. Offset: 440'
Max. Offset: 2980'
GROUP INTERVAL: 220'
SEIS/GROUP: 8 covering 260'

S.P. INTERVAL: 440'
SHOT PATTERN: 2 over 100'
SHOT DEPTH: 50'
AVERAGE CHARGE: 5 lbs.
SEIS. TYPE: 1-2-14 -

AMPLIFIERS: PT - 880
TAPE SYSTEM: FOR - 89
FILTER: 18 - 124

GAIN: BINARY
TAPE: 9 TRACK
FORMAT: SEF/FOR-89/SEGA

PROCESSED BY DIGITECH LTD.

[1] DDC
INPUT TYPE: SEGA
SAMPLE RATE: 2 ms
No. of SAMPLES: 1000

[ ] VIBROSEIS CORRELATION
( ) FIELD SWEEP
( ) SYNTHETIC SWEEP

[2] RESAMPLE
TO: 4 ms

[5] DECONVOLUTION
GATE: 300-1500
LENGTH: 75ms
NOISE SUPPRESSION: 30%
PREDICTION LAG TIME:

[4] NMO
REFERENCE:

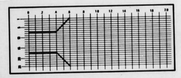
[6] [14] DIGITAL FILTER
TYPE: BANDPASS
POINTS: 30
FILTER 1: 15/22 - 85/70
START TIME:
FILTER 2:
START TIME:
FILTER 3:
START TIME:
FILTER 4:

[3] [11] STATICS
(3) STRUCTURE DATUM: 500'
Wx. VELOCITY: 2000'/s
SUB Wx. VELOCITY
REPLACEMENT VELOCITY: 10,000'/s
( ) FLATTENED TO:
(11) TRIMMED TO: STRUCTURE

TRACE EQUALIZATION
GATE:

[7] [15] AMPLITUDE RECOVERY
GATES:
(7) 0 - 550
500 - 900
800 - 1200
(15) 0 - 550
400 - 700
700 - 1000
900 - 1200
1200 - 2000

[10] FB MUTE

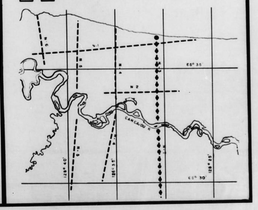


[9] TRACE GATHER
FOLD: 6/1

[13] STACK
FOLD: 6/1

[8] [16] DAC
( ) RAW:
(8) NMO:
TRACE GATHER
( ) STACKED ISOCHRON:
(16) STACKED STRUCTURAL

[12] SPECIAL (NMO) GEO-X SYSTEMS LTD



October 1973
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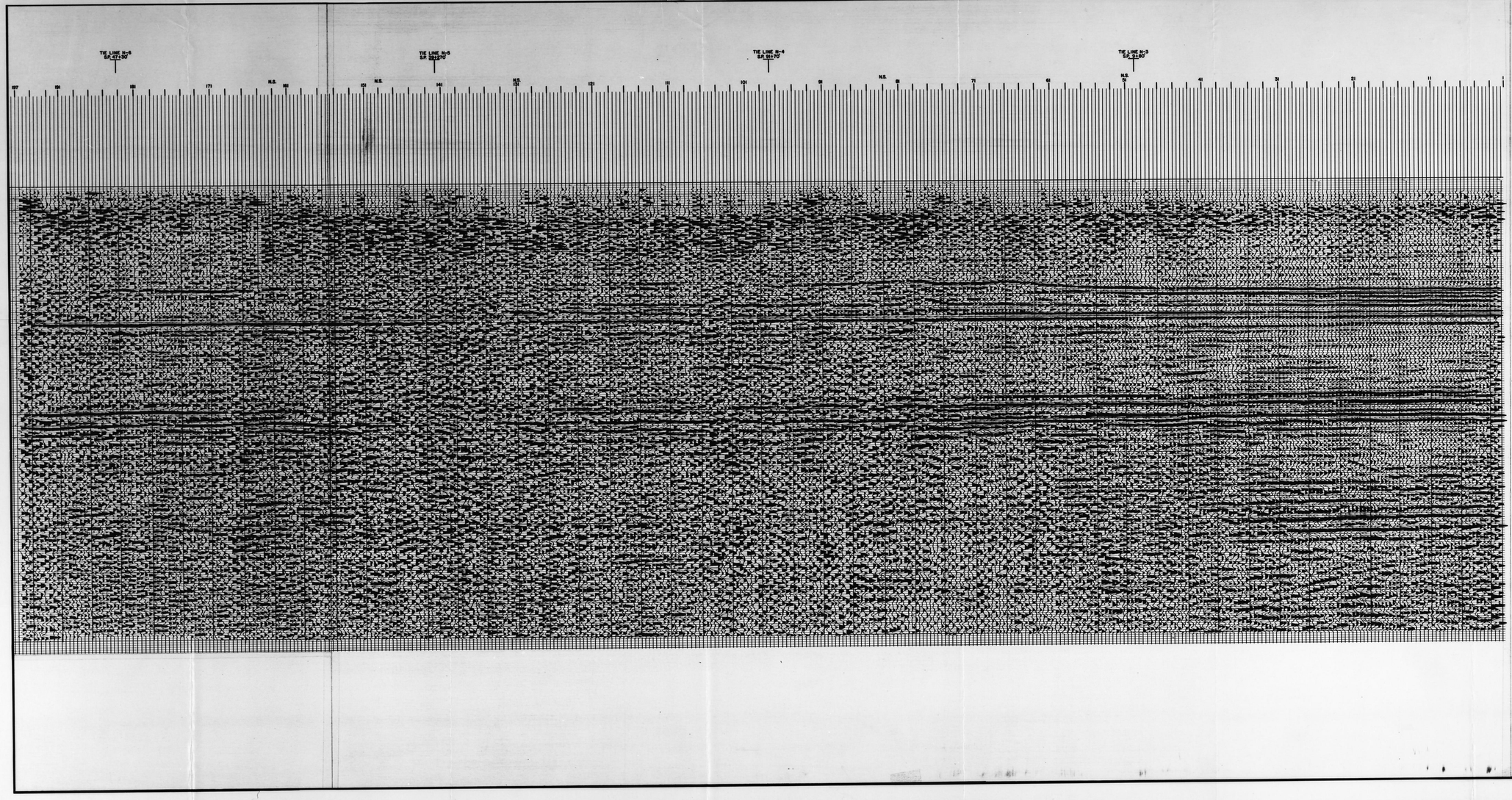
MICROMAT
WEST CANADIAN GRAPHIC INDUSTRIES LTD.
840 5th Avenue S.W. CALGARY 1, ALBERTA
Phone 263 2255
-5-1



NORTHERN GEOPHYSICAL LTD.

LINE: N-1 507-06-05-001

DIRECTION: ⟶ EAST

PROJECT: CARCAJOU

SHOT FOR: CANADIAN INDUSTRIAL GAS & OIL LTD.

SHOOTING DATE: 3/73 PROCESSING DATE: 4/73

FIELD INFORMATION

SHOT BY: PARTY N-3

SPREAD: 24 trace (12-12 split)
Min. Offset: 448'
Max. Offset: 2860'
GROUP INTERVAL: 220'
SEIS/GROUP: 9 covering 200'

S.P. INTERVAL: 440'
SHOT PATTERN: 2 over 500'
SHOT DEPTH: 18'
AVERAGE CHARGE: 5 lbs
SEIS. TYPE: L-1-2.1H.

AMPLIFIERS: PT - 880
SAM. SYSTEM: FDR - 89
FILTER: 16 - 124

GAIN: BINARY
TAPE: 9 TRACK
FORMAT: SIE / FDR-89/SEGA

PROCESSED BY DIGITECH LTD.

[1] **DDC**
INPUT TYPE: SEGA
SAMPLE RATE: 2 ms
No. of SAMPLES: 1000

[ ] **VIBROSEIS CORRELATION**
( ) FIELD SWEEP
( ) SYNTHETIC SWEEP

[2] **RESAMPLE**
TO: 4 ms

[5] [ ] **DECONVOLUTION**
GATE: 300-1200
LENGTH: 39 ms
NOISE SUPPRESSION: 30%
PREDICTION LAG TIME:

[4] [ ] **NMO**
REFERENCE:

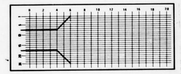
[6] [14] [ ] [ ] **DIGITAL FILTER**
TYPE: BANDPASS
POINTS: 59
FILTER 1: 11-22 - 45-70
START TIME:
FILTER 2:
START TIME:
FILTER 3:
START TIME:
FILTER 4:

[3] [11] [17] [ ] **STATICS**
(3) STRUCTURE DATUM: 500'
Wx. VELOCITY: 2000'
SUB. Wx. VELOCITY:
REPLACEMENT VELOCITY: 10,000'
(17) FLATTENED TO: 600 MSL
(11) TRIMMED TO: STRUCTURE

[ ] [ ] **TRACE EQUALIZATION**
GATE:

[7] [15] **AMPLITUDE RECOVERY**
GATES:
(7) 0 - 500
500 - 900
800 - 1200
(15) 0 - 850
400 - 700
700 - 1150
850 - 2000

[10] [ ] **FB MUTE**

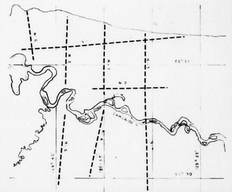


[9] [ ] **TRACE GATHER**
FOLD: 6/1

[13] [ ] **STACK**
FOLD: 6/1

[8] [16] **DAC**
( ) RAW:
(8) RMO:
( ) TRACE GATHER:
(16) STACKED ISOCHRON:
(16) STACKED STRUCTURAL:

[12] [ ] **SPECIAL** RMO - GEO-X SYSTEMS LTD.



WEST CANADIAN GRAPHIC INDUSTRIES LTD.
810 - 5th Avenue S.W.
CALGARY 1, ALBERTA
Phone 263-2550

MICROMAT
105 M.M.

11X

October 1973

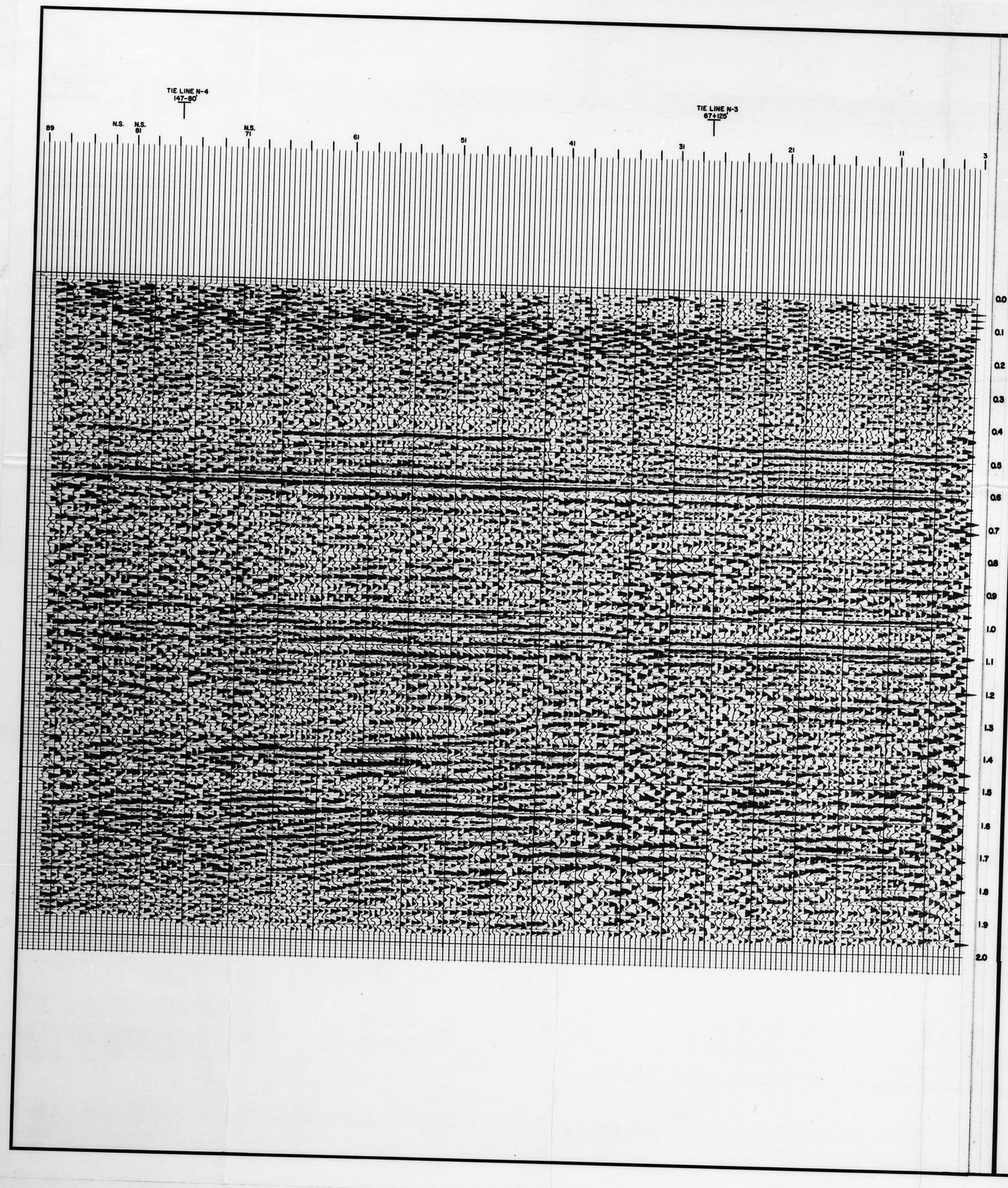
07-6-5-1

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

MICROMAT
105 M.M.

11x

October 1973



NORTHERN GEOPHYSICAL LTD.

507-06-05-001

LINE: N-2
DIRECTION: → EAST
PROJECT: CARCAJOU
SHOT FOR: CANADIAN INDUSTRIAL GAS & OIL LTD.
SHOOTING DATE: 3/73 PROCESSING DATE: 4/73

FIELD INFORMATION

SHOT BY: PARTY N-3

SPREAD: 24 trace, 12/12 split
Min. Offset: 440'
Max. Offset: 2860'
GROUP INTERVAL: 220'
SEIS/GROUP: 9 covering 200'

S.P. INTERVAL: 440'
SHOT PATTERN: 2 over 100'
SHOT DEPTH: 58'
AVERAGE CHARGE: 5 lbs.
SEIS. TYPE: L-2:14 m

AMPLIFIERS: PT - 800
TAPE SYSTEM: PDR - 89
FILTER: 16 - 124

GAIN: BINARY
TAPE: 9 TRACK
FORMAT: SIE/PDR-89/SEGA

PROCESSED BY DIGITECH LTD.

[1] **DDC**
INPUT TYPE: SEGA
SAMPLE RATE: 2 ms
No. of SAMPLES: 1000

[ ] **VIBROSEIS CORRELATION**
( ) FIELD SWEEP:
( ) SYNTHETIC SWEEP:

[2] **RESAMPLE**
TO: 4 ms

[5] [ ] **DECONVOLUTION**
GATE: 300 - 1200
LENGTH: 21 pts.
NOISE SUPPRESSION: 30%
PREDICTION LAG TIME:

[4] [ ] **NMO**
REFERENCE:

[6] [14] [ ] [ ] **DIGITAL FILTER**
TYPE: BANDPASS
POINTS: 50
FILTER 1: 17/22 - 65/70
START TIME:
FILTER 2:
START TIME:
FILTER 3:
START TIME:
FILTER 4:

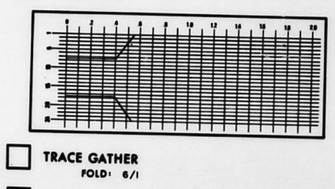
[3] [11] [17] [ ] **STATICS**
(3) STRUCTURE DATUM: 500'
Wx. VELOCITY: 2000'/s
SUB. Wx. VELOCITY:
REPLACEMENT VELOCITY: 10,000'/s
(17) FLATTENED TO: -600 a
(11) TRIMMED TO: STRUCTURE

[ ] [ ] **TRACE EQUALIZATION**
GATE:

[7] [15] **AMPLITUDE RECOVERY**
GATES:

(7)	(15)
0 - 590	0 - 550
300 - 900	400 - 750
800 - 1200	750 - 1100
	950 - 1200
	1200 - 2000

[10] [ ] **FB MUTE**

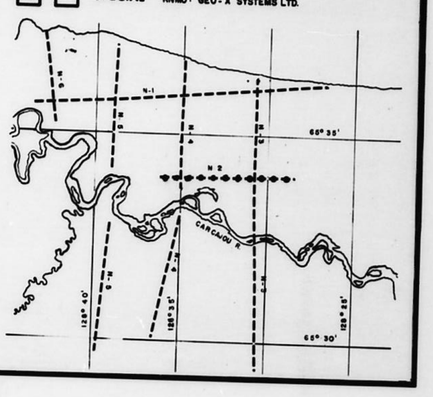


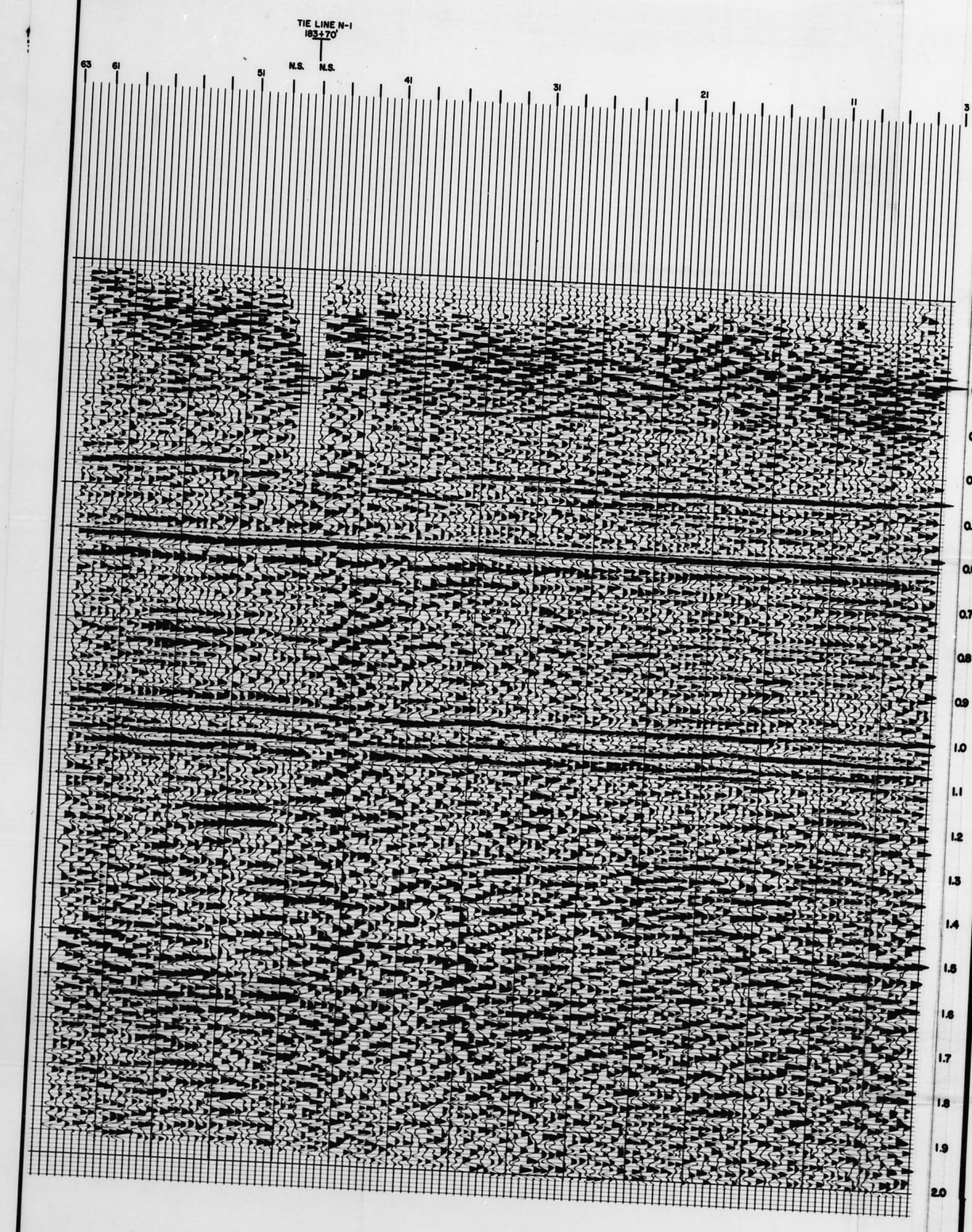
[9] [ ] **TRACE GATHER**
FOLD: 6/1

[13] [ ] **STACK**
FOLD: 6/1

[8] [16] [18] [ ] [ ] [ ] **DAC**
( ) RAW:
(8) NMO:
( ) TRACE GATHER:
(18) STACKED ISOCHRON:
(16) STACKED STRUCTURAL:

[12] [ ] **SPECIAL** RNMO: GEO-X SYSTEMS LTD.





NORTHERN GEOPHYSICAL LTD.

507-06-05-001

LINE: N-6
DIRECTION: → NORTH
PROJECT: CARCAJOU
SHOT FOR: CANADIAN INDUSTRIAL GAS & OIL LTD.
SHOOTING DATE: 3/73 PROCESSING DATE: 4/73

FIELD INFORMATION

SHOT BY: PARTY N-3

SPREAD: 24 trace, 12/12 split
Min. Offset: 440'
Max. Offset: 2860'
GROUP INTERVAL: 220'
SEIS/GROUP: 9 covering 200'

S.P. INTERVAL: 440'
SHOT PATTERN: 2 over 100'
SHOT DEPTH: 58'
AVERAGE CHARGE: 5 lbs.
SEIS. TYPE: L-2:14 m

AMPLIFIERS: PT - 800
TAPE SYSTEM: PDR - 89
FILTER: 16 - 124

GAIN: BINARY
TAPE: 9 TRACK
FORMAT: SIE/PDR-89/SEGA

PROCESSED BY DIGITECH LTD.

[1] **DDC**
INPUT TYPE: SEGA
SAMPLE RATE: 2 ms
No. of SAMPLES: 1000

[ ] **VIBROSEIS CORRELATION**
( ) FIELD SWEEP:
( ) SYNTHETIC SWEEP:

[2] **RESAMPLE**
TO: 4 ms

[5] [ ] **DECONVOLUTION**
GATE: 300 - 1200
LENGTH: 21 pts.
NOISE SUPPRESSION: 30%
PREDICTION LAG TIME:

[4] [ ] **NMO**
REFERENCE:

[6] [14] [ ] [ ] **DIGITAL FILTER**
TYPE: BANDPASS
POINTS: 50
FILTER 1: 17/22 - 65/70
START TIME:
FILTER 2:
START TIME:
FILTER 3:
START TIME:
FILTER 4:

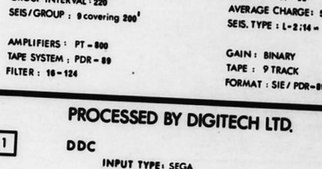
[3] [11] [17] [ ] **STATICS**
(3) STRUCTURE DATUM: 500'
Wx. VELOCITY: 2000'/s
SUB. Wx. VELOCITY:
REPLACEMENT VELOCITY: 10,000'/s
(17) FLATTENED TO: -600 a
(11) TRIMMED TO: STRUCTURE

[ ] [ ] **TRACE EQUALIZATION**
GATE:

[7] [15] **AMPLITUDE RECOVERY**
GATES:

(7)	(15)
0 - 590	0 - 550
300 - 900	400 - 750
800 - 1200	750 - 1100
	900 - 1150
	1100 - 2000

[10] [ ] **FB MUTE**

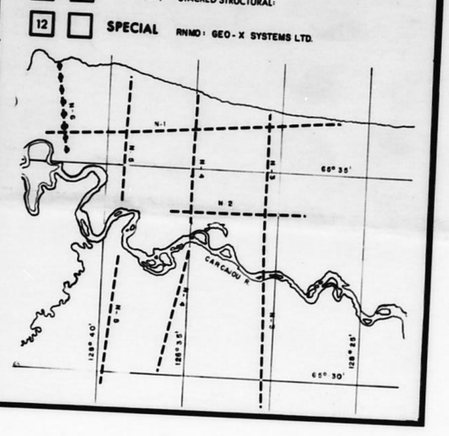


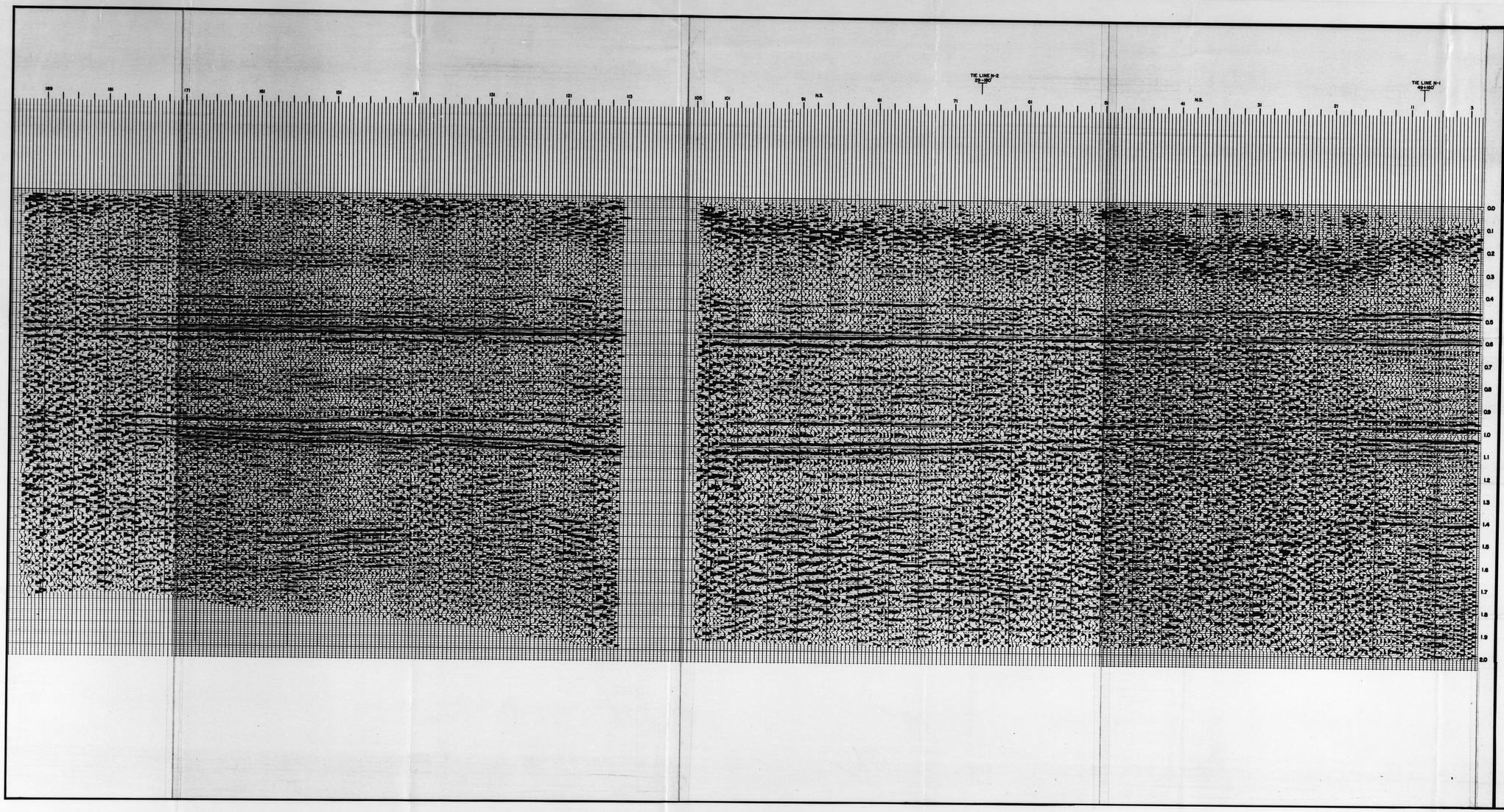
[9] [ ] **TRACE GATHER**
FOLD: 6/1

[13] [ ] **STACK**
FOLD: 6/1

[8] [16] [18] [ ] [ ] [ ] **DAC**
( ) RAW:
(8) NMO:
( ) TRACE GATHER:
(18) STACKED ISOCHRON:
(16) STACKED STRUCTURAL:

[12] [ ] **SPECIAL** RNMO: GEO-X SYSTEMS LTD.





NORTHERN GEOPHYSICAL LTD.

LINE: N-3 507-06-05-001

DIRECTION: → NORTH

PROJECT: CARCAJOU

SHOT FOR: CANADIAN INDUSTRIAL GAS & OIL LTD.

SHOOTING DATE: 3/73 PROCESSING DATE: 4/73

FIELD INFORMATION

SHOT BY: PARTY N-3

SPREAD: 24 trace, 12/12 split
Min. Offset: 148'
Max. Offset: 2368'
GROUP INTERVAL: 220'
SEIS/GROUP: 6 screening 220'

AMPLIFIERS: PT - 888
TAPE SYSTEM: FOR - 89
FILTER: 16 - 124

S.P. INTERVAL: 440'
SHOT PATTERN: 2 over 180'
SHOT DEPTH: 50'
AVERAGE CHARGE: 5 lbs.
SEIS. TYPE: L-S-2-16 -

GAIN: BINARY
TAPE: 9 TRACK
FORMAT: SIE / FOR-89/SEGA

PROCESSED BY DIGITECH LTD.

1 — DDC
INPUT TYPE: SEGA
SAMPLE RATE: 2 ms
No. of SAMPLES: 1999

VIBROSEIS CORRELATION
( ) FIELD SWEEP:
( ) SYNTHETIC SWEEP:

2 — RESAMPLE
TO: 4 ms

5 — DECONVOLUTION
GATE: 300 - 1500
LENGTH: 21 pts.
NOISE SUPPRESSION: 20%
PREDICTION LAG TIME:

4 — NMO
REFERENCE:

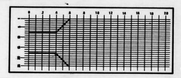
6, 14 — DIGITAL FILTER
TYPE: BANDPASS
POINTS: 19
FILTER 1: 12/22 - 55/70
START TIME:
FILTER 2:
START TIME:
FILTER 3:
START TIME:
FILTER 4:

3, 11, 17 — STATICS
(3) STRUCTURE DATUM: 500'
Wx. VELOCITY: 2000 ft/s
AUX. Wx. VELOCITY:
REPLACEMENT VELOCITY: 10,000 ft/s
(17) FLATTENED TO: -2000'
(11) TRIMMED TO: STRUCTURE

TRACE EQUALIZATION
GATE:

7, 15 — AMPLITUDE RECOVERY
GATES:
(7) 0 - 180, 200 - 1200
(15) 0 - 500, 400 - 1000, 700 - 1100, 900 - 1200, 1200 - 2000

10 — FB MUTE

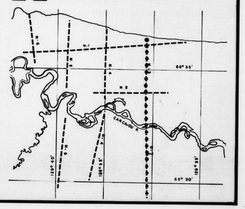


9 — TRACE GATHER
FOLD: 6/1

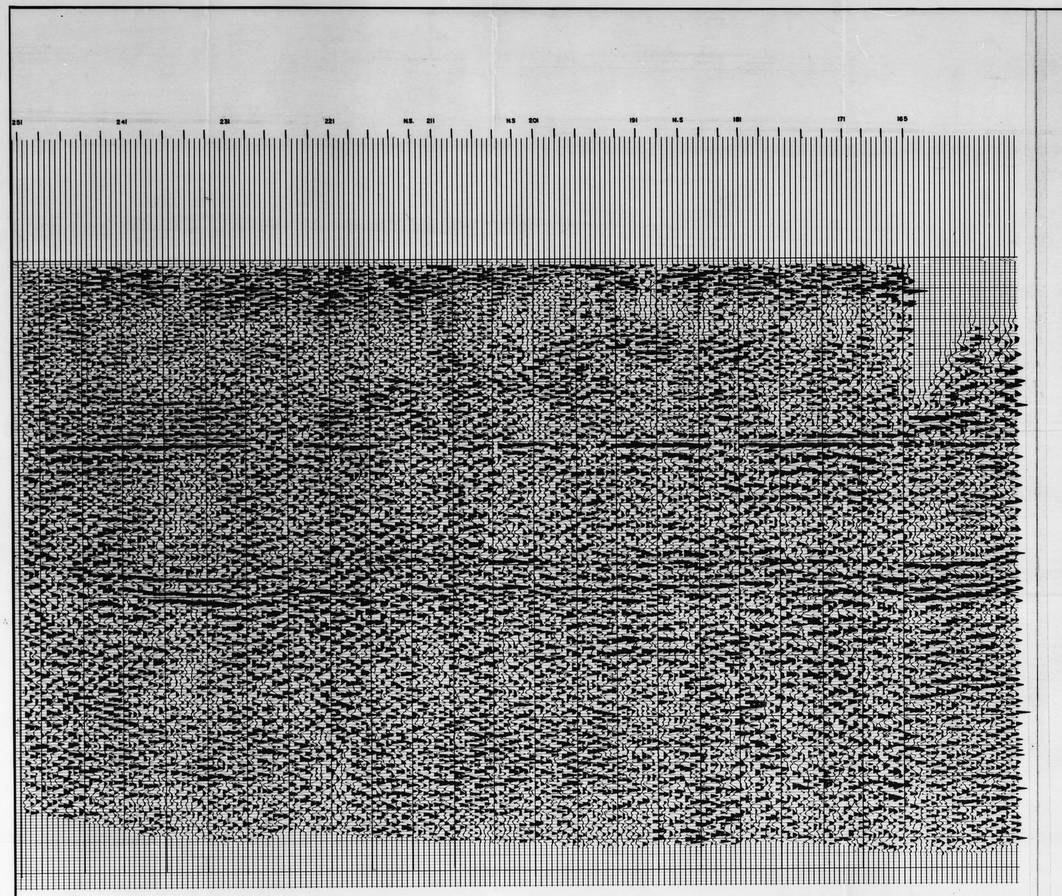
13 — STACK
FOLD: 6/1

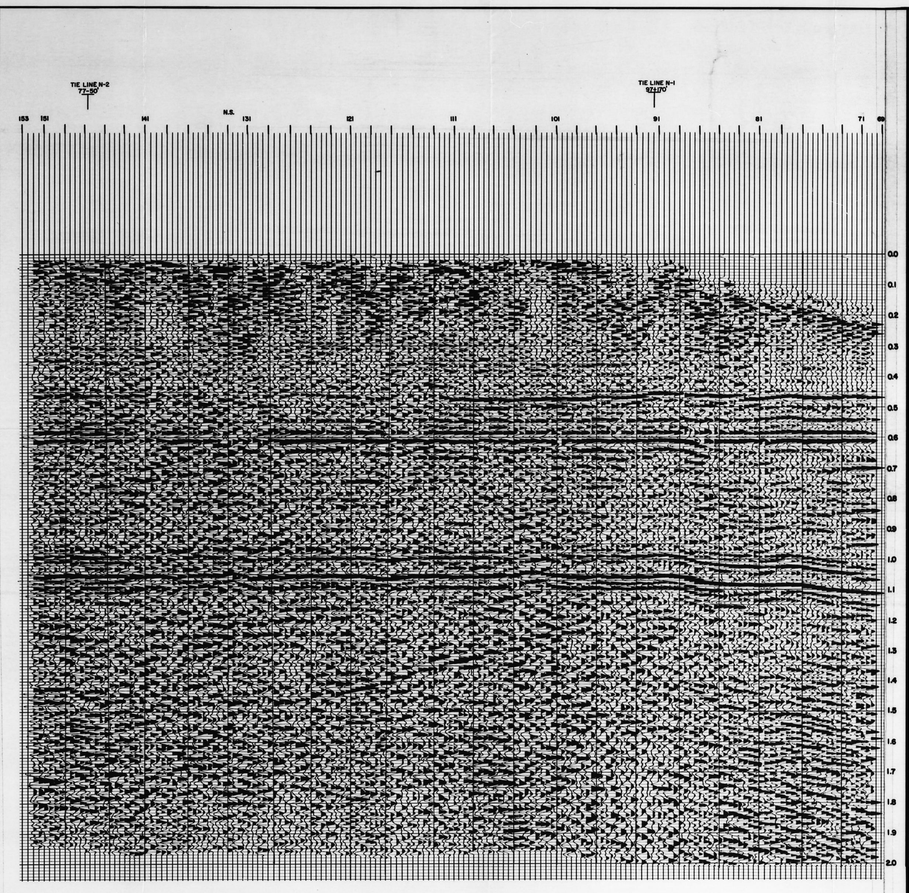
8, 16, 18, 12 — DAC
( ) RAW:
(8) NMO:
( ) TRACE GATHER:
(18) STACKED ISOCHRON:
(16) STACKED STRUCTURAL:

SPECIAL MIND: GEO-X SYSTEMS LTD.



WEST CANADIAN GRAPHIC INDUSTRIES LTD.
CALGARY 1, ALBERTA
Phone 263-2255
MICROMAT
105 M.M.
11X
October 1973





NORTHERN GEOPHYSICAL LTD.
507-06-0E-001

LINE: N-4
DIRECTION: → NORTH
PROJECT: CARCAJOU
SHOT FOR: CANADIAN INDUSTRIAL GAS & OIL LTD.
SHOOTING DATE: 3/73 PROCESSING DATE: 4/73

FIELD INFORMATION

SHOT BY: PARTY N-3

SPREAD: 24 HOPP, 12-12 split
Min. Offset: 448'
Max. Offset: 3888'
GROUP INTERVAL: 132'
SEIS/GROUP: 9 covering 288'

S.P. INTERVAL: 66'
SHOT PATTERN: 2 over 198'
SHOT DEPTH: 58'
AVERAGE CHARGE: 5 lbs.
SEIS. TYPE: L-2/M -

AMPLIFIERS: PT - 990
TAPE SYSTEM: PDR - 89
FILTER: 36-184

GAIN: BINARY
TAPE: 9 TRACK
FORMAT: SEG / PDR-89/SEGA

PROCESSED BY DIGITECH LTD.

[1] DDC
INPUT TYPE: SEGA
SAMPLE RATE: 2 ms
No. of SAMPLES: 1999

[ ] VIBROSEIS CORRELATION
[ ] FIELD SWEEP:
[ ] SYNTHETIC SWEEP:

[2] RESAMPLE
10 - 4 ms

[5] DECONVOLUTION
GATE: 300-1200
LENGTH: 31 pts.
NOISE SUPPRESSION: 99%
PREDICTION LAG TIME:

[4] NMO
REFERENCE:

[6] [14] DIGITAL FILTER
TYPE: BANDPASS
POINTS: 99
FILTER 1: 11-17/22-85/78
START TIME:
FILTER 2:
START TIME:
FILTER 3:
START TIME:
FILTER 4:

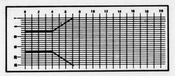
[3] [11] STATICS
[3] STRUCTURE DATUM: 3197'
Wx. VELOCITY: 3000'/s
SUB. Wx. VELOCITY:
REPLACEMENT VELOCITY: 10,000'/s
[17] FLATTENED TO: 600 s
[11] TRIMMED TO: STRUCTURE

[ ] TRACE EQUALIZATION
GATE:

[7] [15] AMPLITUDE RECOVERY
GATES:

(7)	(15)
0 - 500	0 - 650
300 - 900	350 - 750
800 -1200	750 -1200
	1000 -2000

[10] FB MUTE

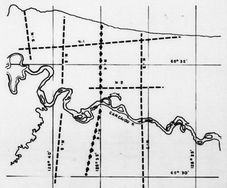


[9] TRACE GATHER
FOLD: 6/1

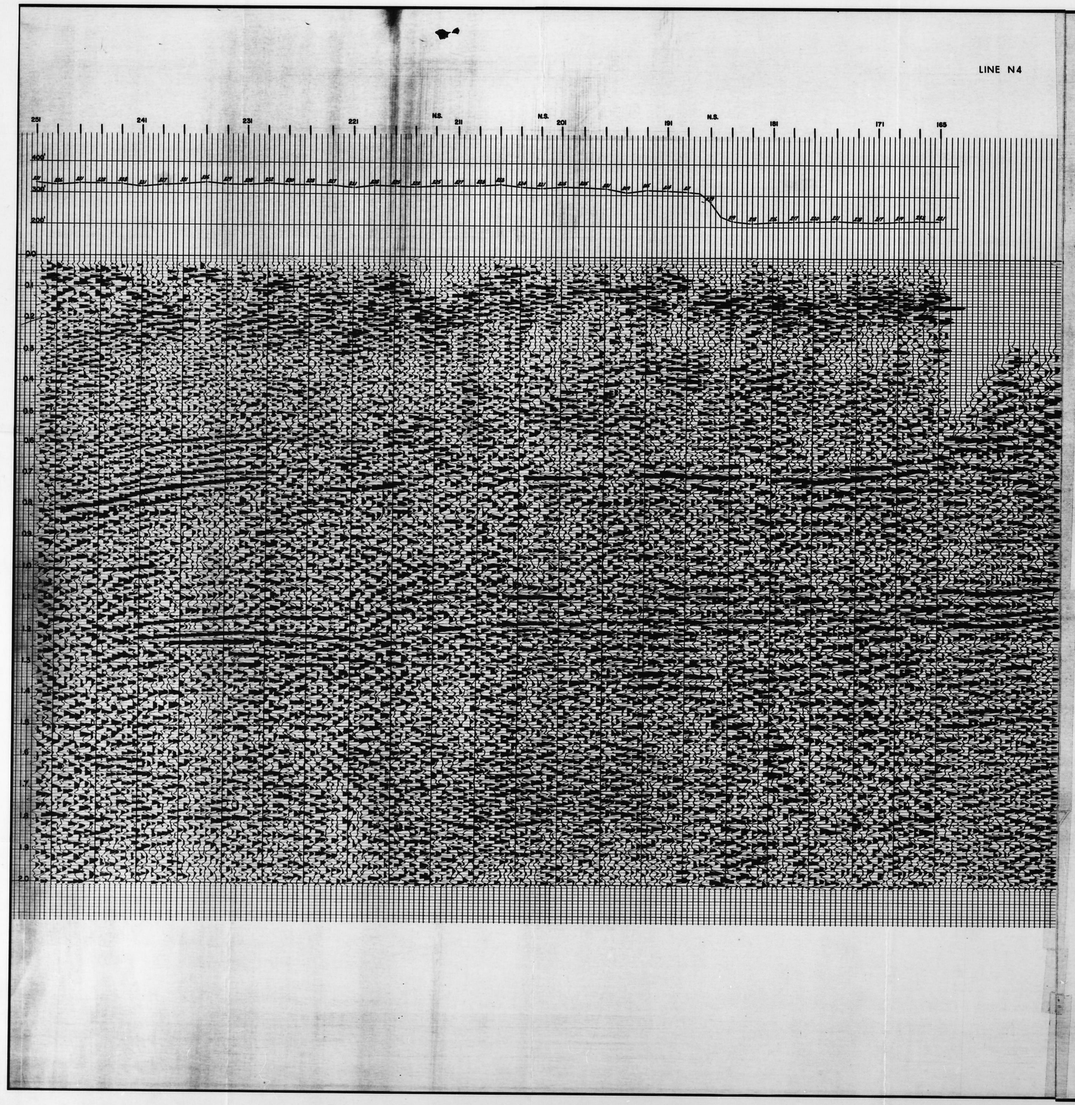
[13] STACK
FOLD: 6/1

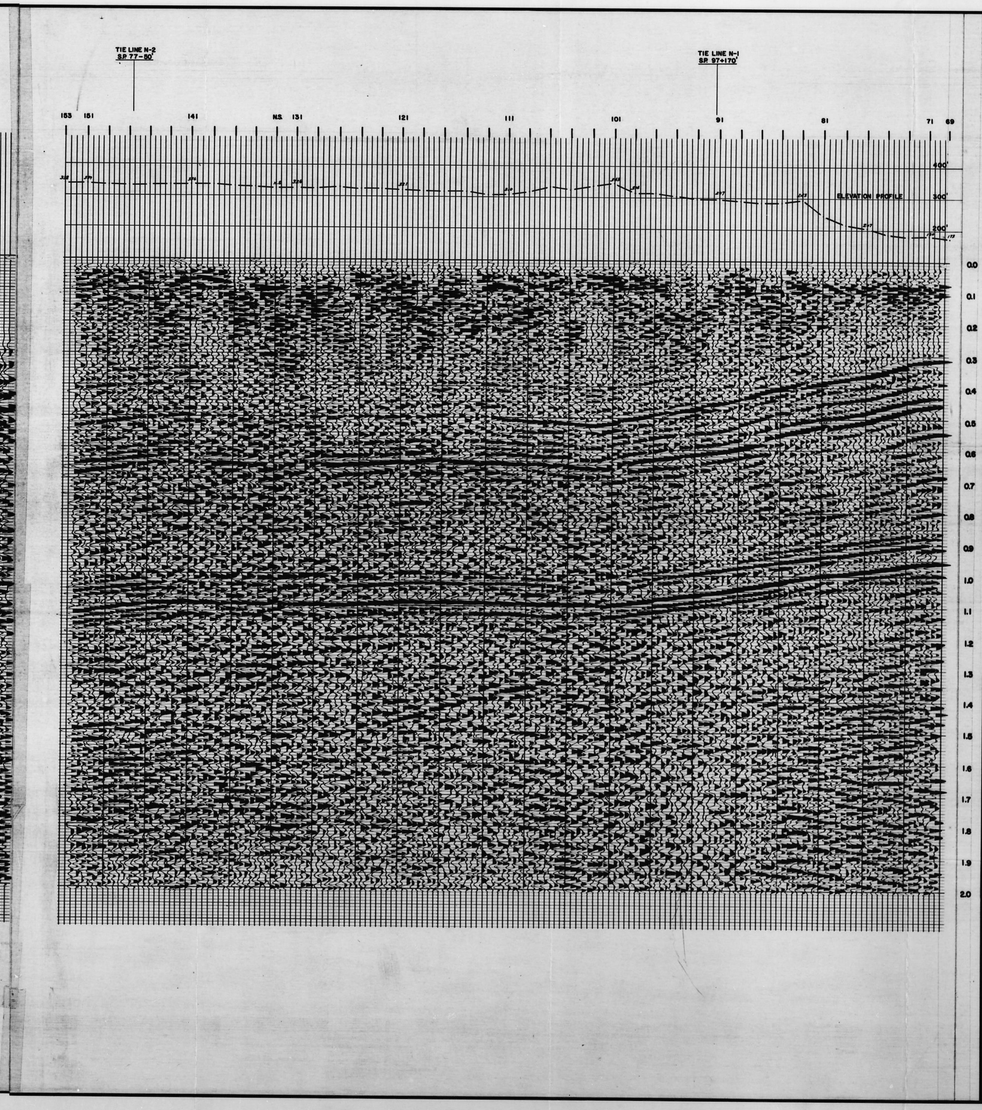
[8] [16] DAC
[ ] RAW:
[6] NMO:
[ ] TRACE GATHER:
[18] STACKED ISOCHRON:
[16] STACKED STRUCTURAL:

[12] SPECIAL RNMO: GEO-X SYSTEMS LTD.



October 1973
11x
MICROMAT
105 M.M.
WEST CANADIAN GRAPHIC INDUSTRIES LTD.
810 - 5th Avenue S.W. CALGARY 1, ALBERTA
Phone 263-2555
07-6-5-1





NORTHERN GEOPHYSICAL LTD.

LINE: N-4 507-06-05-001

DIRECTION: ——→ NORTH

PROJECT: CARCAJOU

SHOT FOR: CANADIAN INDUSTRIAL GAS & OIL LTD.

SHOOTING DATE: 3/73 PROCESSING DATE: 4/73

FIELD INFORMATION

SHOT BY: PARTY N-3

SPREAD: 24 trace, 12/12 split
Min. Offset: 440'
Max. Offset: 2880'
GROUP INTERVAL: 220'
SEIS/GROUP: 6 covering 330'

S.P. INTERVAL: 440'
SHOT PATTERN: 2 over 100'
SHOT DEPTH: 50'
AVERAGE CHARGE: 5.5lbs
SEIS. TYPE: L-5 24 -

AMPLIFIERS: PT - 100
TAPE SYSTEM: FOR - 89
FILTER: 18 - 124

GAIN: BINARY
TAPE: 9 TRACK
FORMAT: SIE / FOR-89/SEGA

PROCESSED BY DIGITECH LTD.

[1] DDC
INPUT TYPE: SEGA
SAMPLE RATE: 2 ms
No. of SAMPLES: 1000

[ ] VIBROSEIS CORRELATION
( ) FIELD SWEEP:
( ) SYNTHETIC SWEEP:

[2] RESAMPLE
TO: 4 ms

[5] DECONVOLUTION
GATE: 300-1200
LENGTH: 250 ms
NOISE SUPPRESSION: 30%
PREDICTION LAG TIME:

[4] N.M.O
REFERENCE:

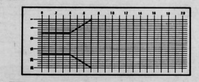
[6] [14] DIGITAL FILTER
TYPE: BANDPASS
POINTS: 18
FILTER 1: 15/22 - 85/78
START TIME:
FILTER 2:
START TIME:
FILTER 3:
START TIME:
FILTER 4:

[3] [11] STATICS
(3) STRUCTURE DATUM: 500'
Wx. VELOCITY: 2000 ft/s
SUB. Wx. VELOCITY
REPLACEMENT VELOCITY: 10,000 ft/s
( ) FLATTENED TO:
(11) TRIMMED TO: STRUCTURE

[ ] TRACE EQUALIZATION
GATE:

[7] [15] AMPLITUDE RECOVERY
GATES:
(7) 0 - 500
500 - 900
900 - 1200
(15) 0 - 650
850 - 750
750 - 1000
1000 - 2000

[10] FB MUTE

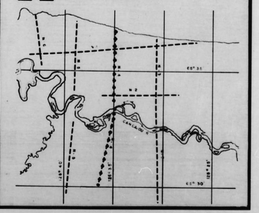


[9] TRACE GATHER
FOLD: 6/1

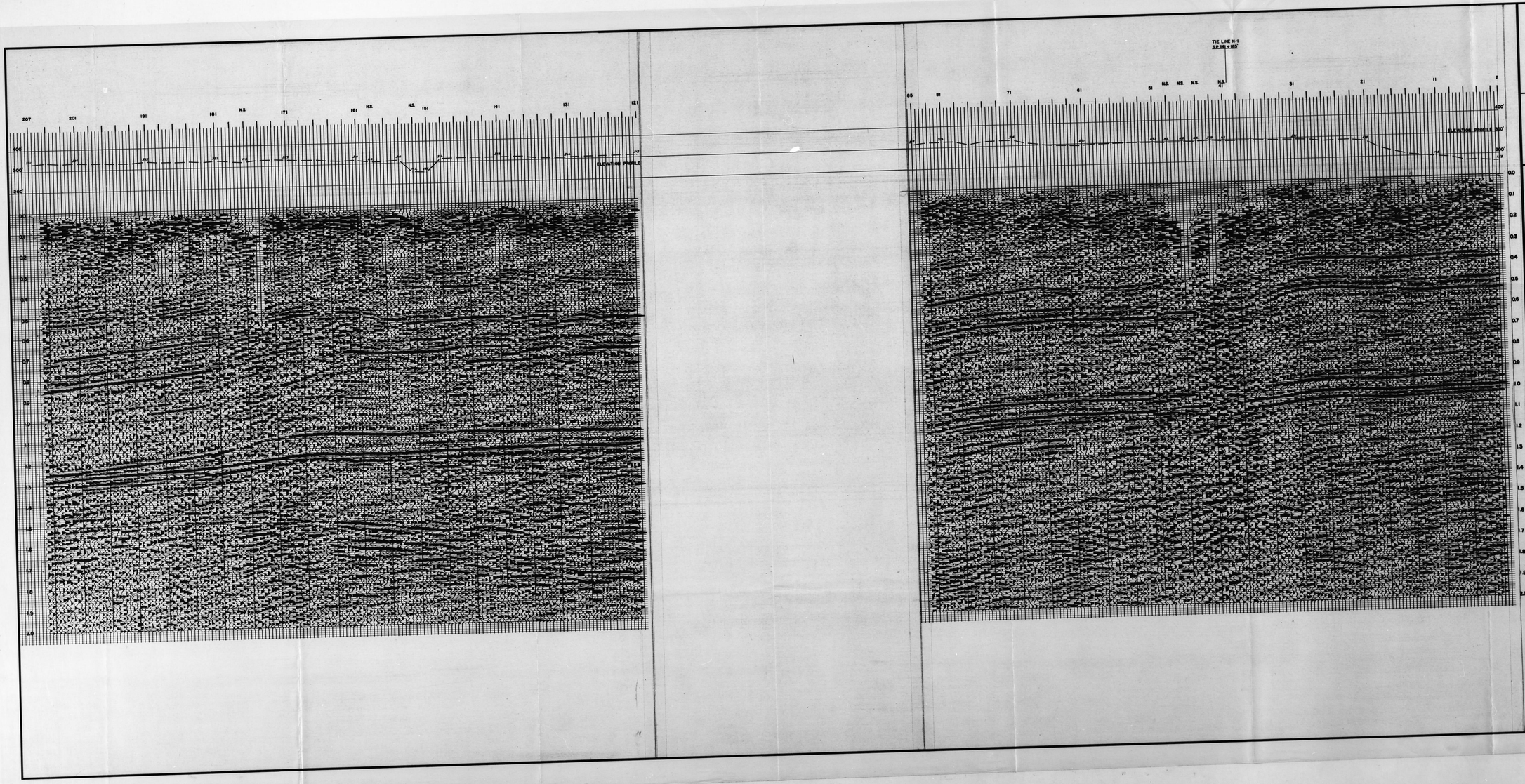
[13] STACK
FOLD: 6/1

[8] [16] DAC
( ) RAW:
(8) NMO:
( ) TRACE GATHER:
( ) STACKED ISOCHRON:
(16) STACKED STRUCTURAL:

[12] SPECIAL RNMO: GEO-X SYSTEMS LTD



October 1973
11x
MICROMAT
105 M.M.
WEST CANADIAN GRAPHIC INDUSTRIES LTD.
800 - 5th Avenue S.W. CALGARY 1, ALBERTA
Phone 263-2535
6-5-1



NORTHERN GEOPHYSICAL LTD.

507-06-05-001

LINE: N-5
DIRECTION: → NORTH
PROJECT: CARCAJOU
SHOT FOR: CANADIAN INDUSTRIAL GAS & OIL LTD.
SHOOTING DATE: 3/73 PROCESSING DATE: 4/73

FIELD INFORMATION

SHOT BY: PARTY N-3

SPREAD: 24 trace, 20/10 spl
Min. Offset: 440'
Max. Offset: 2860'
GROUP INTERVAL: 20'
SES/GROUP: 9 covering 220'

AMPLIFIERS: PT - 800
SAFE SYSTEM: FOR - 30
FILTER: 18 - 124

S.P. INTERVAL: 440'
SHOT PATTERN: 2 over 180'
SHOT DEPTH: 14'
AVERAGE CHARGE: 5 lbs
SEG. TYPE: L - 2.14 -

GAIN: BINARY
TAPE: 9 TRACK
FORMAT: SEG / FOR-89/SEGA

PROCESSED BY DIGITECH LTD.

[1] DDC
INPUT TYPE: SEGA
SAMPLE RATE: 2 ms
No. of SAMPLES: 1000

VIBROSEIS CORRELATION
( ) FIELD SWEEP:
( ) SYNTHETIC SWEEP:

[2] RESAMPLE
TO: 4 ms

[5] DECONVOLUTION
GATE: 300 - 1500
LENGTH: 25 ms
NOISE SUPPRESSION: 30%
PREDICTION LAG TIME:

[4] NMO
REFERENCE:

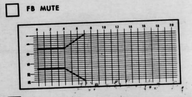
[6] [14] DIGITAL FILTER
TYPE: BANDPASS
POINTS: 30
FILTER 1: 10/22 - 65/70
START TIME:
FILTER 2:
START TIME:
FILTER 3:
START TIME
FILTER 4:

[3] [11] STATICS
[3] STRUCTURE DATUM: 500'
Wx. VELOCITY: 2000 ft/s
SUB. Wx. VELOCITY:
REPLACEMENT VELOCITY: 10,000 ft/s
( ) FLATTENED TO:
[11] TRIMMED TO: STRUCTURE

TRACE EQUALIZATION
DATE:

[7] [15] AMPLITUDE RECOVERY
GATES:
[7] 0 - 590 [15] 0 - 690
300 - 900 350 - 750
800 - 1200 800 - 1150
980 - 2000

[10] FB MUTE

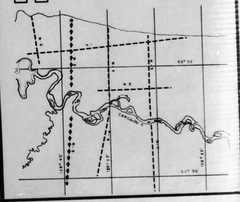


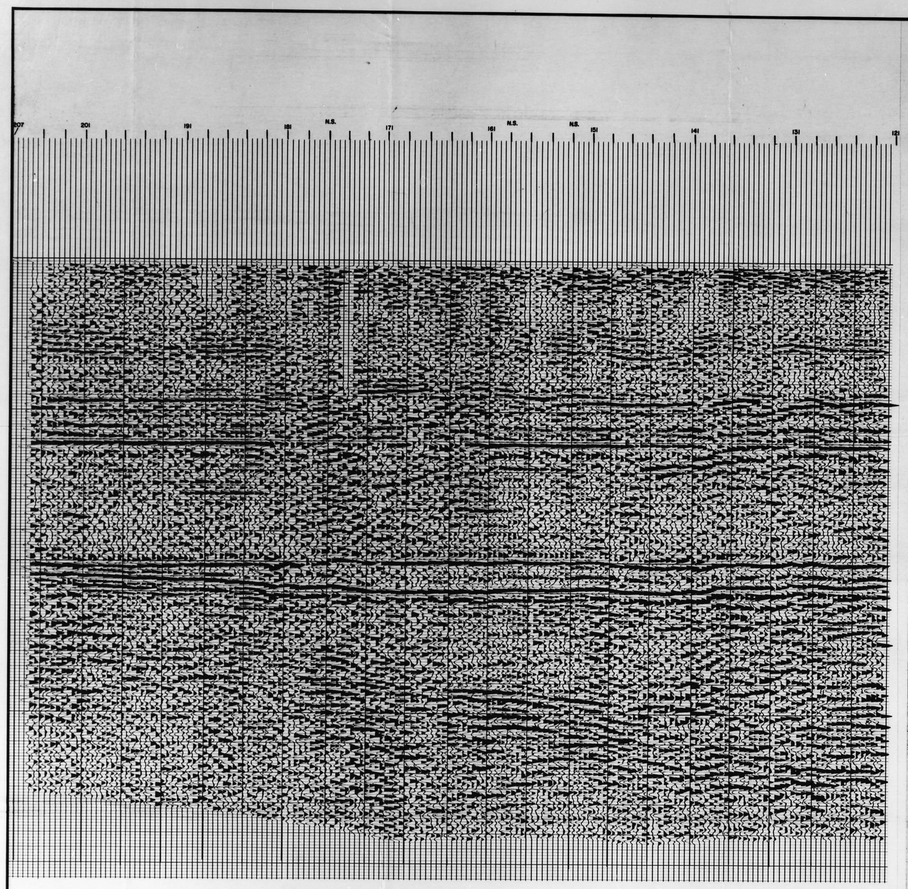
[9] TRACE GATHER
FOLD: 6/1

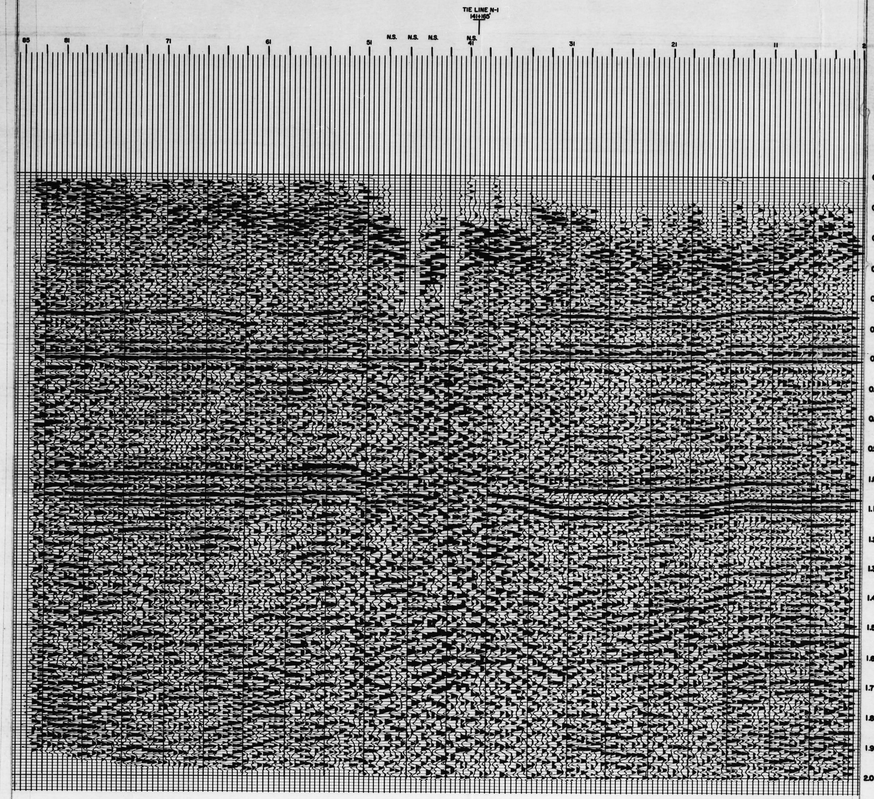
[13] STACK
FOLD: 6/1

[8] [16] DAC
[ ] RAW:
[8] NMO
[ ] TRACE GATHER
[ ] STACKED ISOCHRON:
[16] STACKED STRUCTURAL

[12] SPECIAL BAND - SEO - X SYSTEMS LTD.







NORTHERN GEOPHYSICAL LTD.

507-06-05-001

LINE: N-5

DIRECTION: → NORTH

PROJECT: CARCAJOU

SHOT FOR: CANADIAN INDUSTRIAL GAS & OIL LTD.

SHOOTING DATE: 3/73 PROCESSING DATE: 4/73

FIELD INFORMATION

SHOT BY: PARTY N-3

SPREAD: 24 trace, 12/12 split
Min. Offset: 440'
Max. Offset: 2880'
GROUP INTERVAL: 220'
SEIS/GROUP: 8 stacking 220'

S.P. INTERVAL: 440'
SHOT PATTERN: 2 over 100'
SHOT DEPTH: 60'
AVERAGE CHARGE: 5 lbs.
SEIS. TYPE: L-4.5H

AMPLIFIERS: PT-880
TAPE SYSTEM: FDR-89
FILTER: 18-135

GAIN: BINARY
TAPE: 9 TRACK
FORMAT: SIE/FDR-89/SEGA

PROCESSED BY DIGITECH LTD.

[1] DDC
INPUT TYPE: SEGA
SAMPLE RATE: 2 ms
No. of SAMPLES: 1000

[ ] VIBROSEIS CORRELATION
( ) FIELD SWEEP:
( ) SYNTHETIC SWEEP:

[2] RESAMPLE
10 4 ms

[5] [ ] DECONVOLUTION
GATE: 300-1500
LENGTH: 21 pts.
NOISE SUPPRESSION: 10%
PREDICTION LAG TIME:

[4] [ ] NMO
REFERENCE:

[6] [14] [ ] [ ] DIGITAL FILTER
TYPE: BANDPASS
POINTS: 59
FILTER 1: 11/22 - 55/70
START TIME:
FILTER 2:
START TIME:
FILTER 3:
START TIME:
FILTER 4:

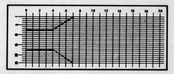
[3] [11] [17] [ ] STATICS
(3) STRUCTURE DATUM: 500'
Wx. VELOCITY: 2000 ft/s
SUB. Wx. VELOCITY:
REPLACEMENT VELOCITY: 10,000 ft/s
(17) FLATTENED TO: -8000'
(11) TRANSED TO: STRUCTURE

[ ] [ ] TRACE EQUALIZATION
GATE:

[7] [15] [ ] AMPLITUDE RECOVERY
GATES:

(7)	(15)
0 - 590	0 - 690
300 - 800	350 - 700
800 - 2000	800 - 1150
	980 - 2000

[10] [ ] FB MUTE

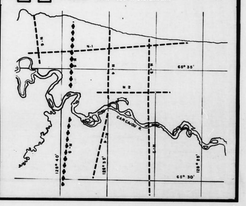


[9] [ ] TRACE GATHER
FOLD: 6/1

[13] [ ] STACK
FOLD: 6/1

[8] [16] [ ] DAC
(8) RAW:
(8) NMO:
( ) TRACE GATHER:
(16) STACKED ISOCHRON:
(16) STACKED STRUCTURAL:

[12] [ ] SPECIAL MIND - GEO - X SYSTEMS LTD.



07-6-5-1

WEST CANADIAN GRAPHIC INDUSTRIES LTD.
810 - 5th. Avenue S.W.
CALGARY 1, ALBERTA
Phone 263-2305

MICROMAT
105 M.M.

11x

October 1973

SCALE — 1 : 50,000

1 0 1 2 3 4 Miles

1 0 1 2 3 4 5 6 Kilometers

LEGEND

- .....? - Data quality poor.
- .....R - Value perhaps higher or lower.
- ? - No value could be picked.
- N.S. - Location not shot
- ⊗ - Value phonicmed.
- Fault (hatchures on downthrown side).
- Possible or questionable fault.
- Probable fault.
- Correlation break.
- Correlation uncertain
- Hatchure on low side of contour.

SEISMIC HISTORY

- ● SHOT BY IMPERIAL 1963
- ○ SHOT BY NORTHERN, MARCH 1973

507-06-05-001

TRANS-PRAIRIE PIPELINES LTD.
CALGARY - CANADA

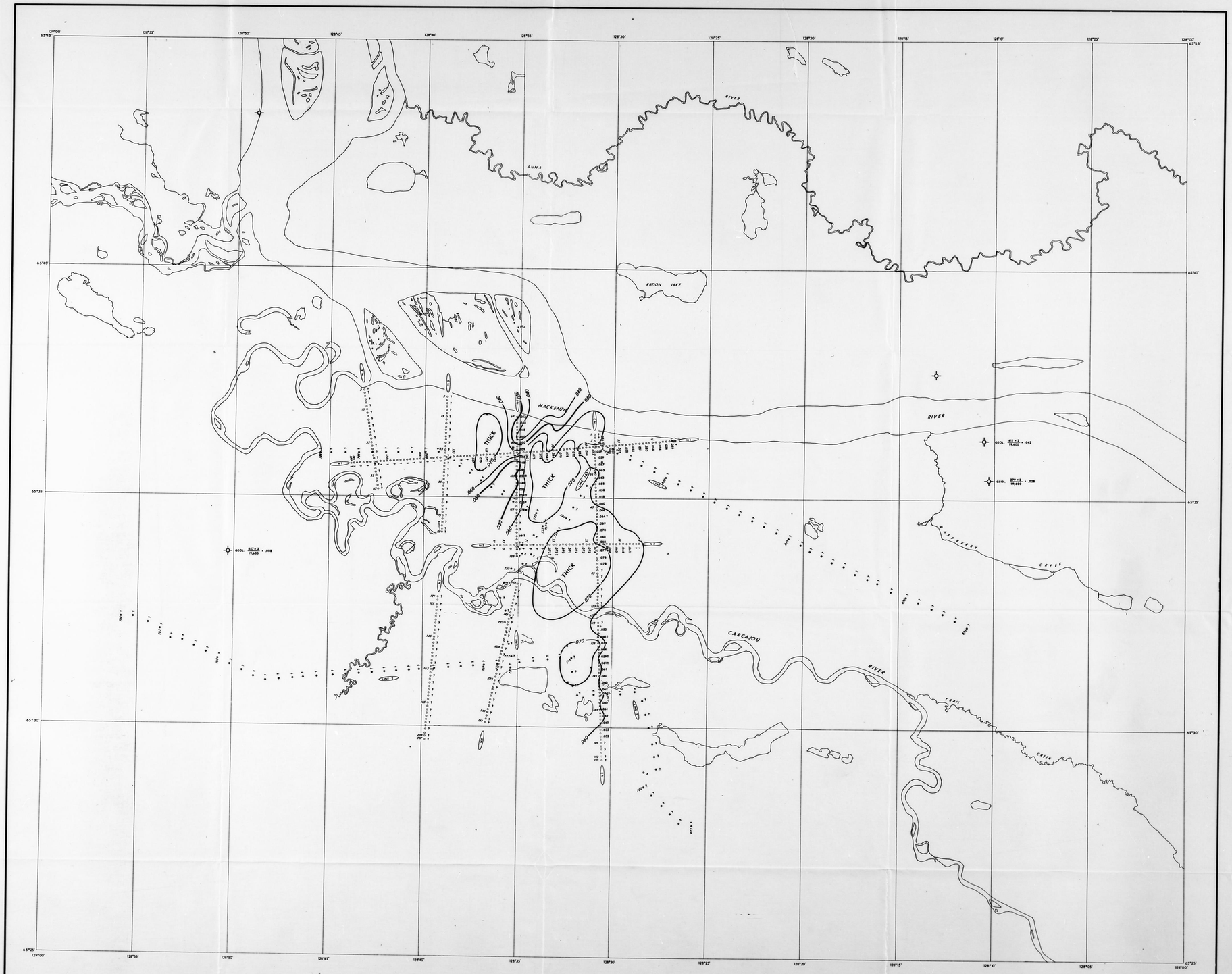
CARCAJOU

KEE SCARP TO HUME

Contour Interval: .010 sec.	Scale: 1:50,000
Velocity (Interval): 17,000 ft./sec.	Datum: —
Interpreted by: R.V. Cose	Date: June, 1973
Map 7 of 9	File number: NWYT. 76

October 1973
11x
MICROMAT
105 M.M.
WEST CANADIAN GRAPHIC INDUSTRIES LTD.
801 - 5th Avenue S.W. CALGARY 1, ALBERTA
Phone 263-2555
507-6-5-1

MICROMAT
105 M.M.
CANADIAN GRAPHIC INDUSTRIES LTD.
S.W. CALGARY 1, ALBERTA
Phone 263-2555
11x
October 1973
507-6-5-1



SCALE — 1 : 50,000

1 0 1 2 3 4 5 6 Miles
1 0 1 2 3 4 5 6 Kilometers

LEGEND

- .....? - Data quality poor.
- .....8 - Value perhaps higher or lower.
- ? - No value could be picked.
- N.S. - Location not shot.
- ⊛ - Value phenomenal.
- Fault (hatchures on downthrown side).
- Possible or questionable fault.
- Probable fault.
- Correlation break.
- Correlation uncertain.
- Hatchure on low side of contour.

SEISMIC HISTORY

- ● SHOT BY IMPERIAL 1963
- ○ SHOT BY NORTHERN, MARCH 1973

507-06-05-001

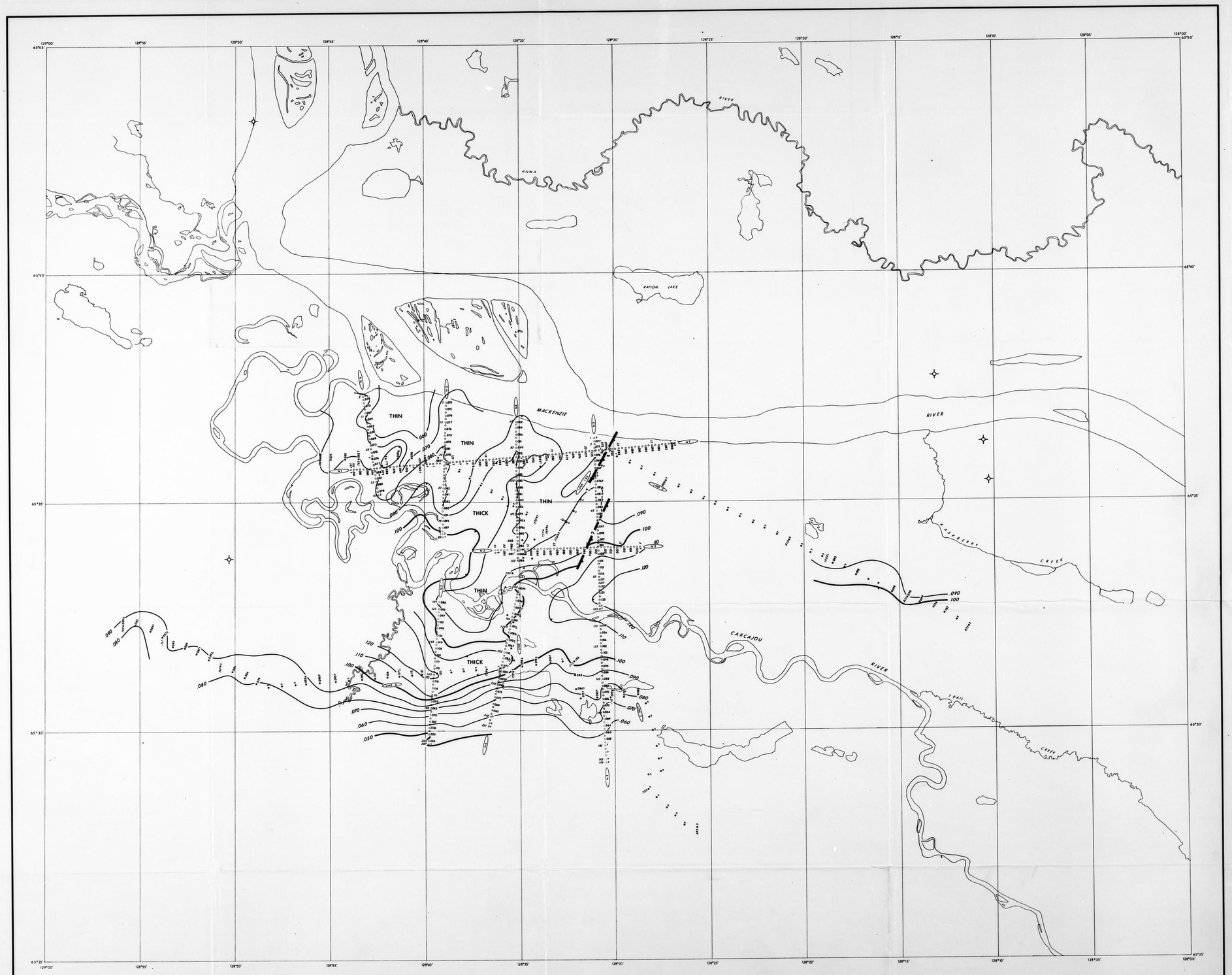
TRANS-PRAIRIE PIPELINES LTD.
CALGARY - CANADA

CARCAJOU

KEE SCARP TO HARE INDIAN

Contour Interval: .010 sec.	Scale: 1:50,000
Velocity (Interval): 19,600 ft/sec.	Datum: ———
Interpreted by: R.V. Coss	Date: June, 1973
Map 6 of 9	File number: NWYT. 7b

MICROMAT
105 M.M.
WEST CANADIAN GRAPHIC INDUSTRIES LTD.
800 - 5th Avenue S.W. CALGARY 1, ALBERTA
Phone 263-2555
11x
October 1973
507-6-5-1



LEGEND

- .....? - Data quality poor.
- .....8 - Value perhaps higher or lower.
- ? - No value could be picked.
- N.S. - Location not shot
- ⊗ - Value phenomenal
- - Fault (hatchures on downthrown side).
- - Possible or questionable fault.
- - Probable fault.
- - Correlation break.
- - Correlation uncertain.
- - Hatchure on low side of contour.

SEISMIC HISTORY

- ● SHOT BY IMPERIAL 1963
- ○ SHOT BY NORTHERN, MARCH 1973

SCALE — 1 : 50,000

5 0 1 2 3 4 5 Miles
1 0 1 2 3 4 5 6 Kilometers

507-06-05-001

TRANS-PRAIRIE PIPELINES LTD.
CALGARY - CANADA

CARCAJOU
CAMBRIAN TO PRECAMBRIAN

Contour Interval: .010 sec.	Scale: 1:50,000
Velocity (Interval): 15,000 ft/sec. (est.)	Datum: —
Interpreted by: R.V. Cass	Date: June, 1973
Map 9 of 9	File number: NWVT. 76

SCALE — 1:50,000

0 1 2 3 4 Miles

0 1 2 3 4 5 6 Kilometers

LEGEND

- ....? - Data quality poor.
- ....8 - Value perhaps higher or lower.
- ? - No value could be picked.
- N.S. - Location not shot
- ⊗ - Value phenomenal.
- Fault (hatchures on downthrown side).
- Possible or questionable fault.
- Probable fault.
- Correlation break.
- Correlation uncertain.
- Hatchure on low side of contour.

SEISMIC HISTORY

- ● SHOT BY IMPERIAL 1963
- ○ SHOT BY NORTHERN, MARCH 1973

507-06-05-001

TRANS-PRAIRIE PIPELINES LTD.
CALGARY - CANADA

CARCAJOU
SHOTPOINT ELEVATIONS

Contour Interval: 50 ft.	Scale: 1:50,000
Velocity ( ): —	Datum: Sea Level
Interpreted by: R.V. Coss	Date: June, 1973
Map 1 of 9	File number: NWYT. 76

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MICROMAT
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SCALE — 1 : 50,000

1 0 1 2 3 4 5 Miles
1 0 1 2 3 4 5 6 Kilometers

LEGEND

- ? - Data quality poor.
- 8 - Value perhaps higher or lower.
- ? - No value could be picked.
- N.S. - Location not shot.
- ⊗ - Value phenomenal.
- Fault (hachures on downthrown side)
- Possible or questionable fault.
- Probable fault.
- Correlation break.
- Correlation uncertain.
- Hatchure on low side of contour.

SEISMIC HISTORY

- SHOT BY IMPERIAL 1963
- SHOT BY NORTHERN, MARCH 1973

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TRANS-PRAIRIE PIPELINES LTD.
CALGARY - CANADA

CARCAJOU

HUME TO CAMBRIAN

Contour Interval: .010 sec.	Scale: 1:50,000
Velocity (Average) 20,000 ft/sec.	Datum: ———
Interpreted by: R.V. Cose	Date: June, 1973
Map 8 of 9	File number: NWYT. 76

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SCALE — 1:50,000

1 0 1 2 3 4 Miles
1 0 1 2 3 4 5 6 Kilometers

LEGEND

- ....? - Data quality poor.
- ....S - Value perhaps higher or lower.
- ? - No value could be picked.
- N.S. - Location not shot.
- ● - Value phenomenal.
- Fault (hatchures on downthrown side).
- Possible or questionable fault.
- Probable fault.
- Correlation break.
- Correlation uncertain.
- Hatchure on low side of contour.

SEISMIC HISTORY

- ● SHOT BY IMPERIAL 1963
- ○ SHOT BY NORTHERN, MARCH 1973

507-06-05-001

TRANS-PRAIRIE PIPELINES LTD.
CALGARY - CANADA

CARCAJOU
HUME

Contour Interval: .020 sec.	Scale: 1:50,000
Velocity (Average): 13,600 ft/sec.	Datum: 500 ft, Ve = 10,000 ft/sec.
Interpreted by: R.V. Coss	Date: June, 1973
Map 3 of 9	File number: NWYT. 76

MICROMAT
105 M.M.
WEST CANADIAN GRAPHIC INDUSTRIES LTD.
810 - 5th Avenue S.W. CALGARY 1, ALBERTA
Phone 263-2555
11x October 1973
507-6-5-1

LEGEND

- ? - Data quality poor.
- R - Value perhaps higher or lower.
- ? - No value could be picked.
- N.S. - Location not shot
- Value phenomenal
- Fault (hatchures on downthrown side).
- Possible or questionable fault.
- Probable fault.
- Correlation break.
- Correlation uncertain.
- Hatchure on low side of contour.

SEISMIC HISTORY

- SHOT BY IMPERIAL 1963
- SHOT BY NORTHERN, MARCH 1973

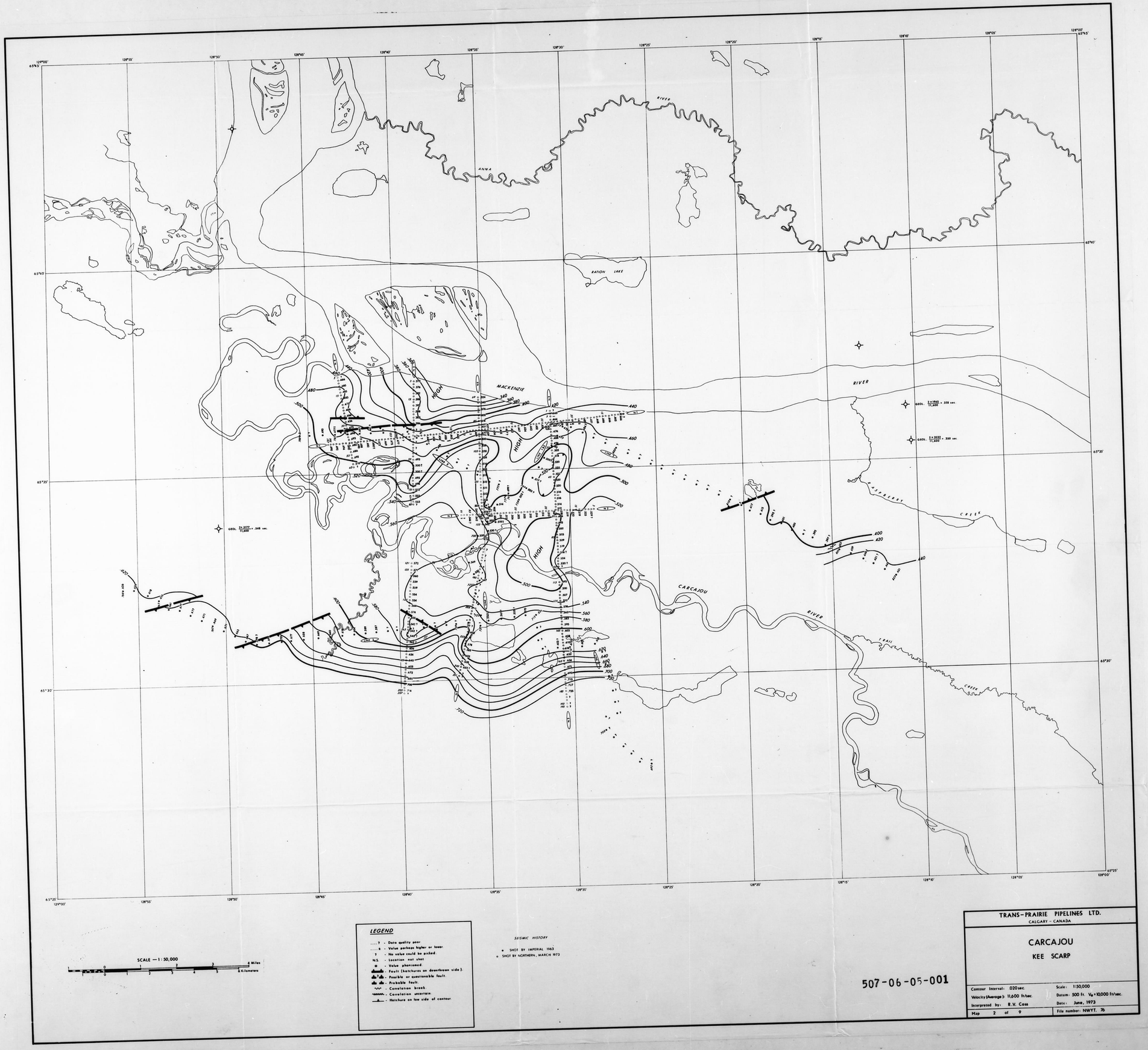
507-06-05-001

TRANS-PRAIRIE PIPELINES LTD.
CALGARY - CANADA

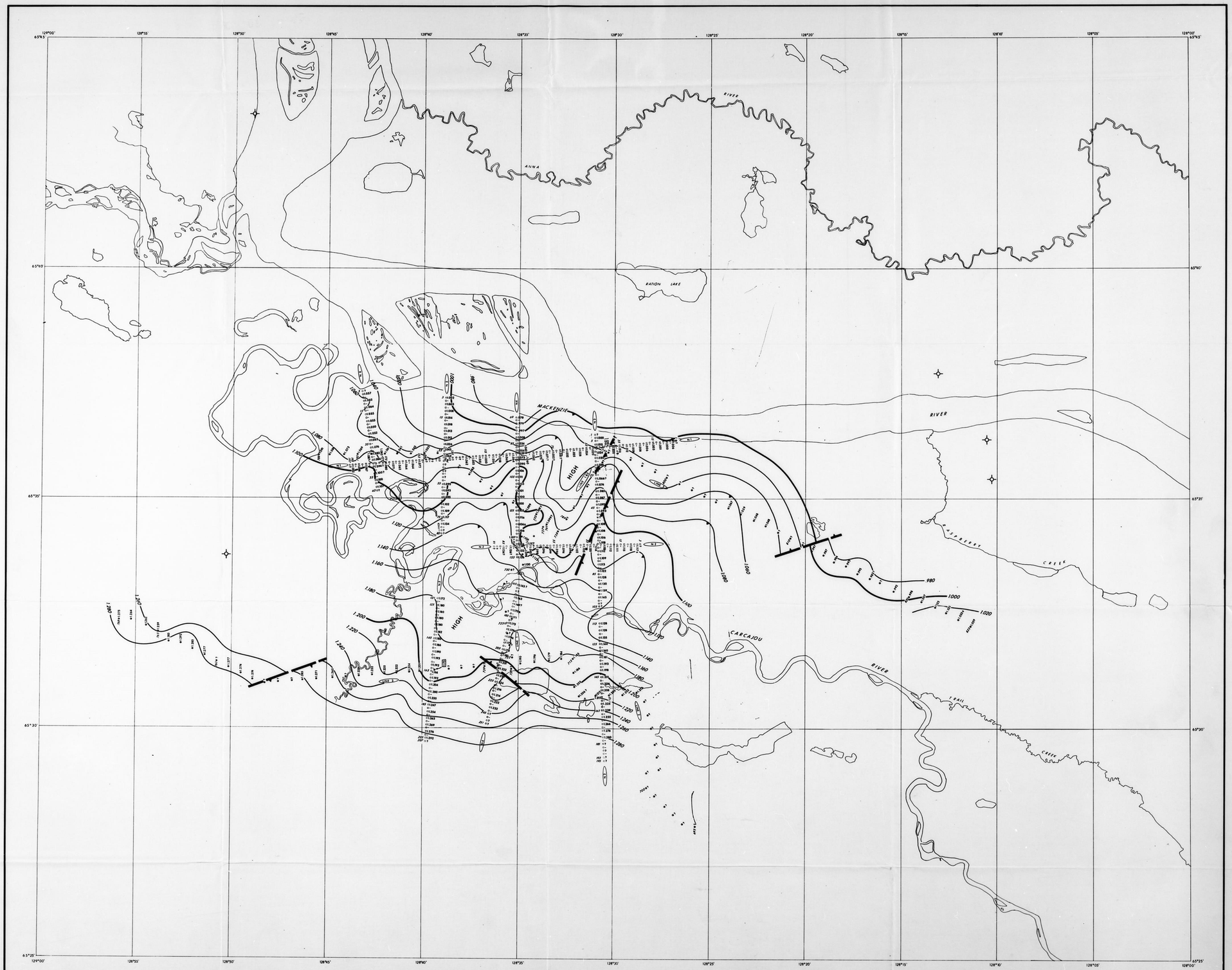
CARCAJOU
CAMBRIAN

Contour Interval: 020 Sec.	Scale: 1:50,000
Velocity (Average): 15,000 ft./sec (est.)	Datum: 500 ft. Vc. = 10,000 ft/sec
Interpreted by: R.V. Cose	Date: June, 1973
Map 4 of 9	File number: NWVT. 76

MICROMAT
105 M.M.
WEST CANADIAN GRAPHIC INDUSTRIES LTD.
80 - 5th Avenue S.W. CALGARY 1, ALBERTA
Phone 263-2555
October 1973
11X
507-6-5-1



MICROMAT
105 M.M.
11x
October 1973
WEST CANADIAN GRAPHIC INDUSTRIES LTD.
810 - 5th Avenue S.W. CALGARY 1, ALBERTA
Phone 263-2555
507-6-5-1



SCALE — 1:50,000

1 0 1 2 3 4 Miles

1 0 1 2 3 4 5 6 Kilometers

LEGEND

- .....? - Data quality poor.
- .....6 - Value perhaps higher or lower.
- ? - No value could be picked.
- N.S. - Location not shot.
- ⊗ - Value phenomenal.
- Fault (hatchures on downthrown side).
- Possible or questionable fault.
- Probable fault.
- Correlation break.
- Correlation uncertain.
- Hatchure on low side of contour.

SEISMIC HISTORY

- ● SHOT BY IMPERIAL 1963
- ● SHOT BY NORTHERN, MARCH 1973

507-06-05-001

TRANS-PRAIRIE PIPELINES LTD.
CALGARY - CANADA

CARCAJOU
PRECAMBRIAN

Contour Interval: .020 sec.	Scale: 1:50,000
Velocity (Average): 15,000 ft/sec.(est)	Datum: 500 ft., Ve = 10,000 ft/sec.
Interpreted by: R.V. Coss	Date: June, 1973
Map 5 of 9	File number: NWYT. 7b