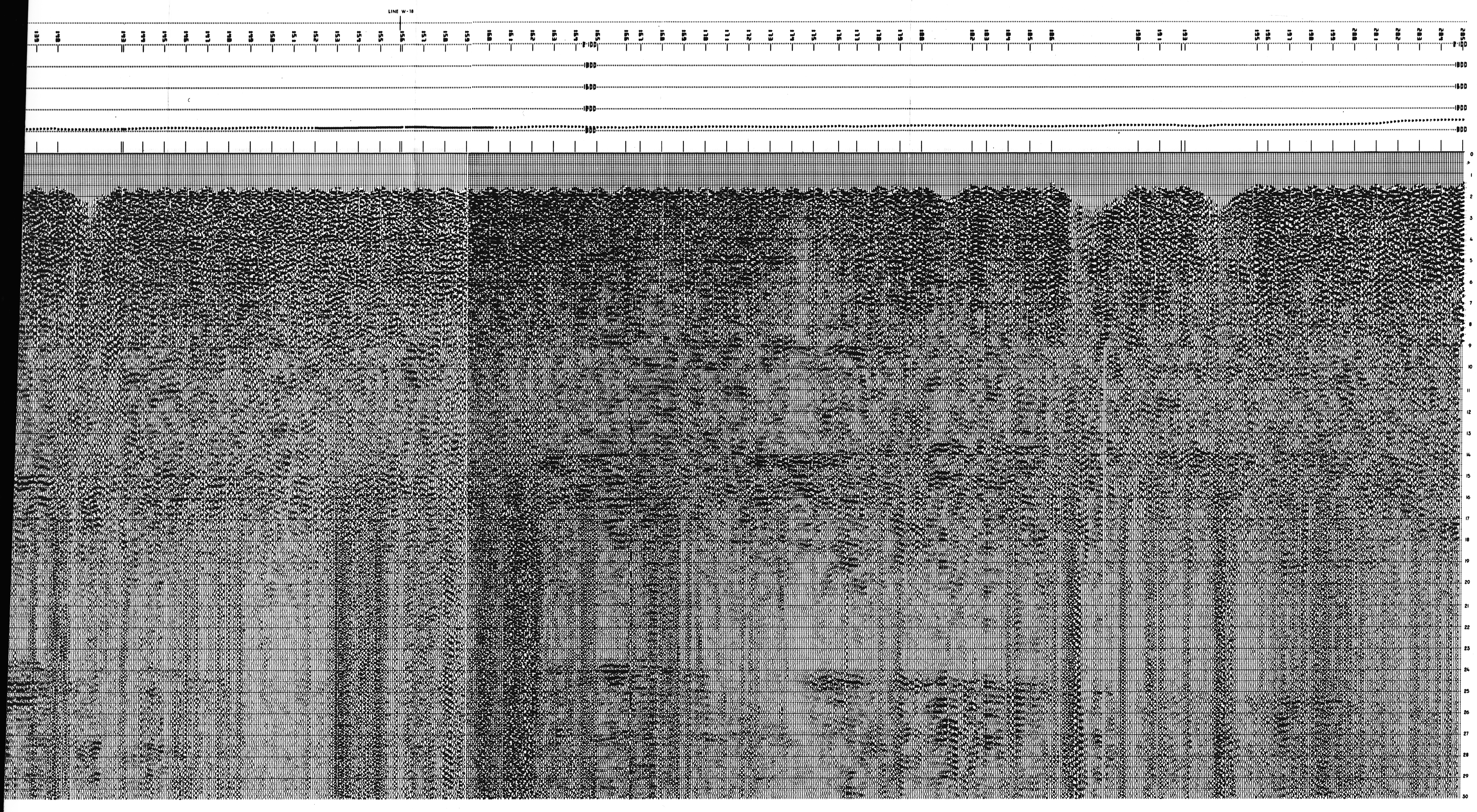
028-06-06-065- 1B

W17



028-06-06-065

**AREA : HORTON RIVER, N.W.T.**
**LINE : W-17**
**PROJECT NO. : GO569-E**

**DIRECTION : EAST**

TYPE SHOOTING : DYNAMITE
SHOT BY : WESTERN GEOPHYSICAL PARTY F-35
DATE SHOT : DECEMBER 1974 - FEBRUARY 1975
FIELD RECORDING ☒ DIGITAL ☐ ANALOG
FIELD INSTRUMENTS : DFS III
TAPE SYSTEM : 9 TRACK
NO OF TRACES PER S P : 48
DIGITAL FORMAT : EPRA SAMPLE RATE 2 MS
RECORD LENGTH : 3.000 SEC
TAPE FILTER LOW 18 HIGH 124
GAIN INFORMATION ☐ FIXED ☐ AGC
☐ PGC ☐ GAGC ☒ BINARY
SWEEP FREQUENCY : FROM HZ TO HZ
SWEEP LENGTH SEC
NO OF VIBRATORS NO SWEEPS
TYPICAL CHARGE SIZE 10 LBS SHOT DEPTH 41-45 FT
SHOT PATTERN : SINGLE HOLES
GEOPHONE ARRAY 9/string - 2 strings over 200 ft.
SPREAD LAYOUT
2640'-110'-x-110'-2640'
REMARKS :

STATIC CORRECTION BY UNION OIL COMPANY LIMITED

**STACK : 400 %**

DATUM OR FLOATING HORIZON

CORRECTION DATUM ELEVATION 1,000 ft.
DATUM VELOCITY 18,000'/sec.

**FLATTENER AT SEC.**

FILTER LOW CUT 25 LOW PASS 30 HIGH PASS 80 HIGH CUT 90
DECONVOLUTION :
☐ BEFORE ☐ AFTER STACK
☐ TRIM STATICS ☐ 2-D FILTER
☐ TRIM NMO ☐ POWER STACK
☐ ☐ MIX

PROCESSING SAMPLE RATE 2 MS
☐ BANDIS ☐ SPECTRAL ☐ POWERTRACE
☐ VELDIS ☐ VVF ☐

PROCESSING APPLIED :
1) DMPX - GAIN RECOVERY ONLY
2) EXGAIN
3) EXSCAL - EXPONENTIAL GAIN APPLIED-AUTOMATIC SCALING
4) PREDIT
5) MERGE
6) Nmo - MOVEOUT, KILLS, ELEVATION STATICS, INDIVIDUAL TRACE MUTES 0.900-3.000 sec.
7) Nmo - INSIDE TRACE MUTES + PERMAFROST MUTES
8) FSTBND - 25/30 - 80/90
9) GATHSTAK - FRONT END MUTES. DIST. 1' - 150 msec.
2640' - 250 msec.
10) ATOS - AUTOMATIC STATICS, 0.400-0.900 WINDOW, ± 16 STATIC, NO TRACES KILLED
11) GATHSTAK - GATHER + STACK WITH ATOS STATICS

DATE : MARCH 1975

REEL NOS : FIELD 13244 to MERGE 5215 OTHERS
13248 incl. 5710
13243 - experimental
REMARKS : 5756

POLARITY REVERSED IN PLOT

VELOCITY FUNCTION

| TWO WAY TIME | AVERAGE VELOCITY |
|---|---|
| 0.350 | 15,000 |
| 0.550 | 15,500 |
| 0.900 | 16,000 |
| 1.300 | 16,500 |
| 3.000 | 17,500 |

SUBSURFACE TRACE SPACING 55 FT

union

CONFIDENTIAL INFORMATION
NOT TO BE REPRODUCED
APPROVED FOR RELEASE NOV 4 1975
Date
BY
Vice President, Exploration
UNION OIL COMPANY OF CANADA LIMITED