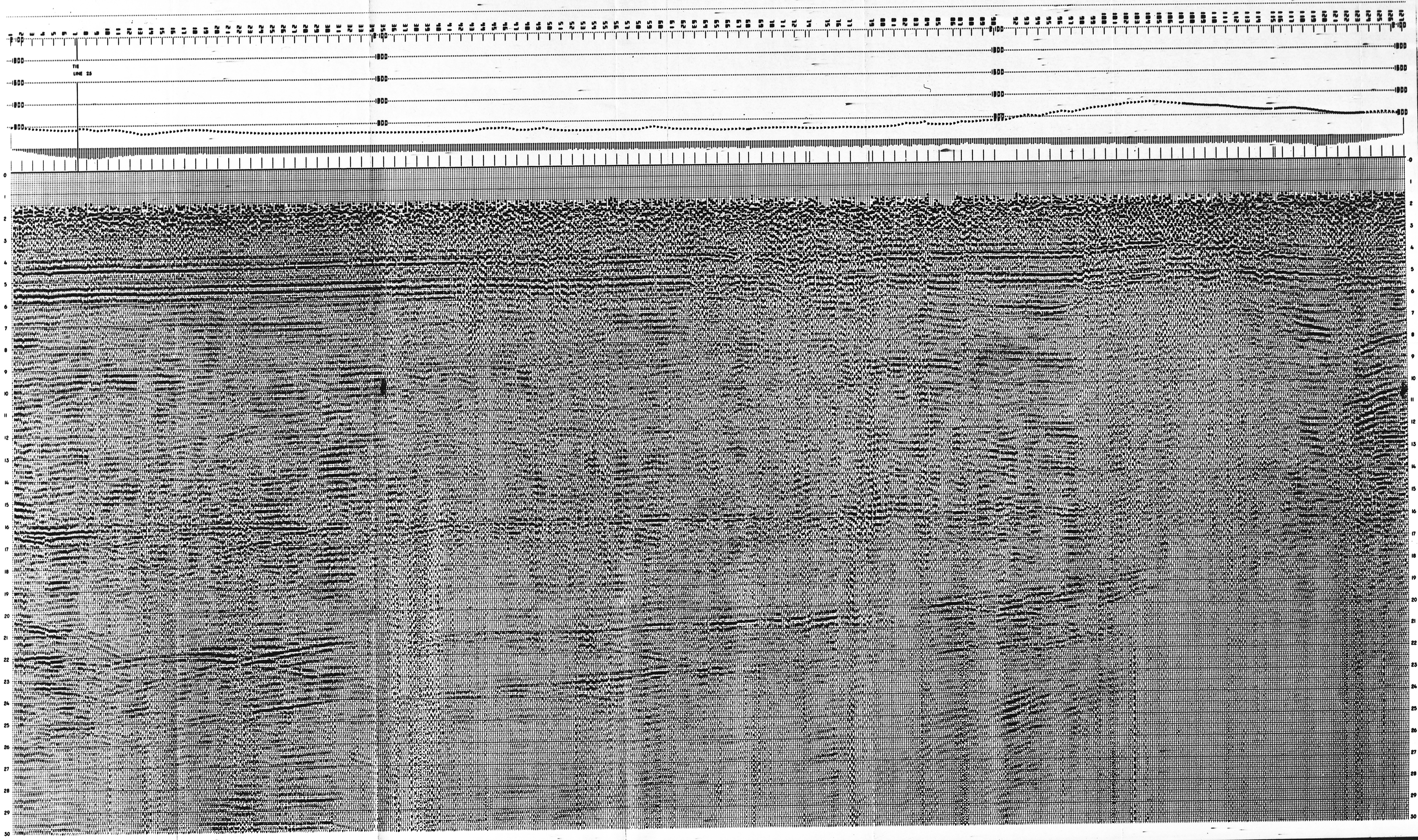
028-06-06-065-2

W31



AREA : HORTON RIVER N.W.T.
LINE : W-31
PROJECT NO. : GO569-E

028-06-06-065

DIRECTION : SOUTHEAST

TYPE SHOOTING : DYNAMITE
SHOT BY : WESTERN GEOPHYSICAL PARTY F-35
DATE SHOT : DECEMBER 1974 - APRIL 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 : 12 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 : 3840'-160'-X-160'-3840'

REMARKS :

STATIC CORRECTION BY : UNION OIL COMPANY LIMITED
STACK : 800 %
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 : MAY, 1975

REEL NOS. :	FIELD		MERGE	OTHERS
	13310		5930	
	13311		9453	
	13312			

REMARKS :

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 : 80 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