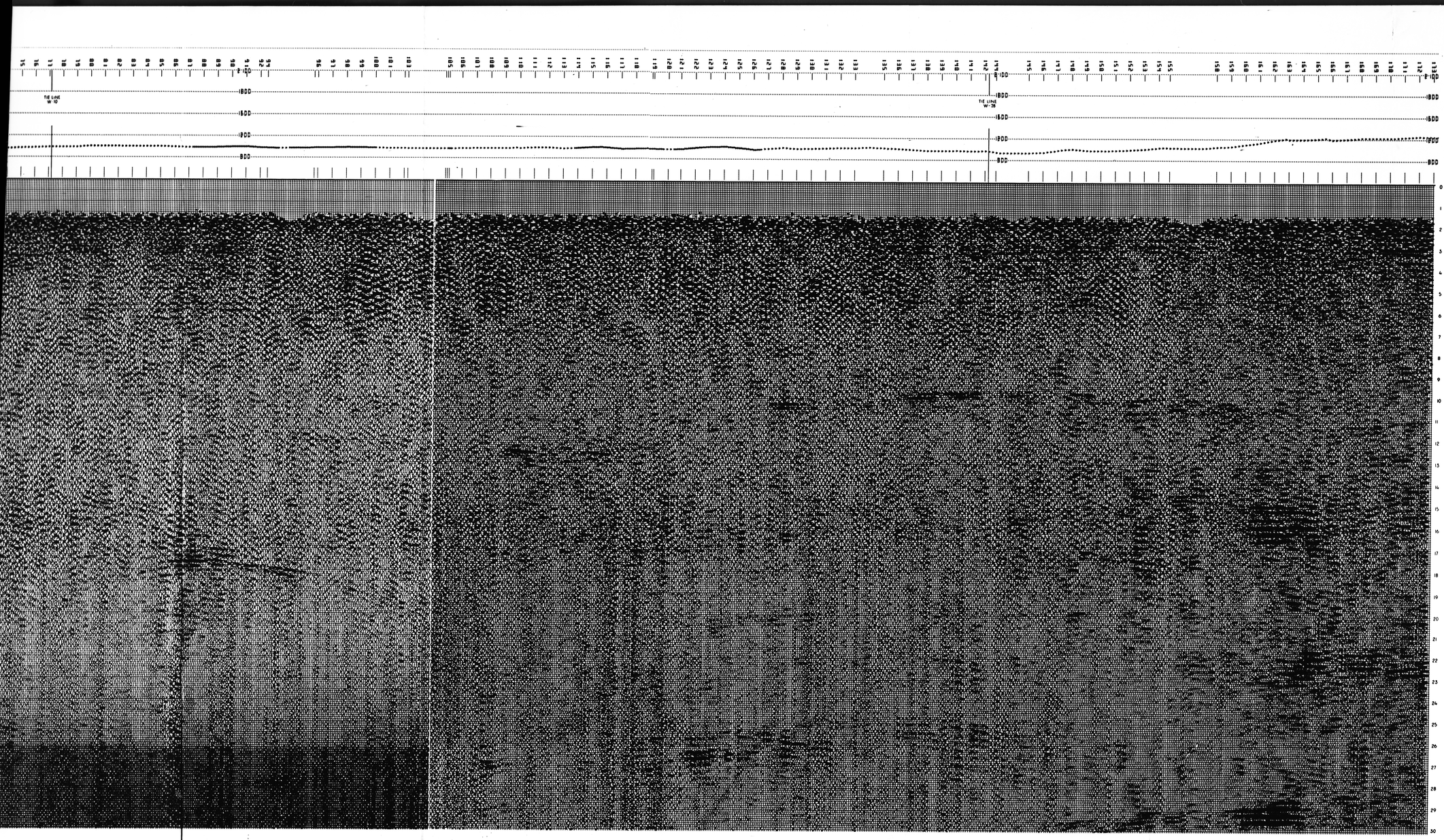
028-06-06-065-8

W-27

028-06-06-065

AREA : HORTON RIVER N.W.T.
LINE : W-27
PROJECT NO. : GO569-E



DIRECTION : NORTH

TYPE SHOOTING : SPREADITE
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 : SEGA SAMPLE RATE : 2 MS
RECORD LENGTH : 3.000 SEC
TAPE FILTER : LOW 18 HIGH 126
GAIN INFORMATION : ☐ FIXED ☐ AGC
☐ FGC ☐ 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 : 8/string, - 2 strings over 200 ft.
SPREAD LAYOUT : 2750'-220'-X-220'-2750'

REMARKS

STATIC CORRECTION BY UNION OIL COMPANY LIMITED

STACK : 600 %

DATUM OR FLOATING HORIZON :

CORRECTION DATUM ELEVATION: 1,000 ft.
DATUM VELOCITY : 10,000'/sec.

FLATTENER AT SEC.

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

PROCESSING SAMPLE RATE 2 MS
☐ BANDS ☐ SPECTRAL ☐ POWERTRACE
☐ VELOS ☐ VVF

PROCESSING APPLIED
1) DFS - GAIN RECOVERY ONLY
2) EXGAIN
3) EXGAL - EXPONENTIAL GAIN APPLIED-AUTOMATIC SCALING
4) PRESET
5) MERGE
6) Nmo - MOVEOUT,KILL,ELEVATION STATICS,INDIVIDUAL TRACE MUTES 0.900-3.000 sec.
7) Nmo - INSIDE TRACE MUTES + PERMAFROST MUTES
8) FETBAN - 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 13286 MERGE 5293 OTHERS
13287 5836
13288 5500
REMARKS 13289

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 1976
BY
Vice President, Exploration
UNION OIL COMPANY OF CANADA LIMITED