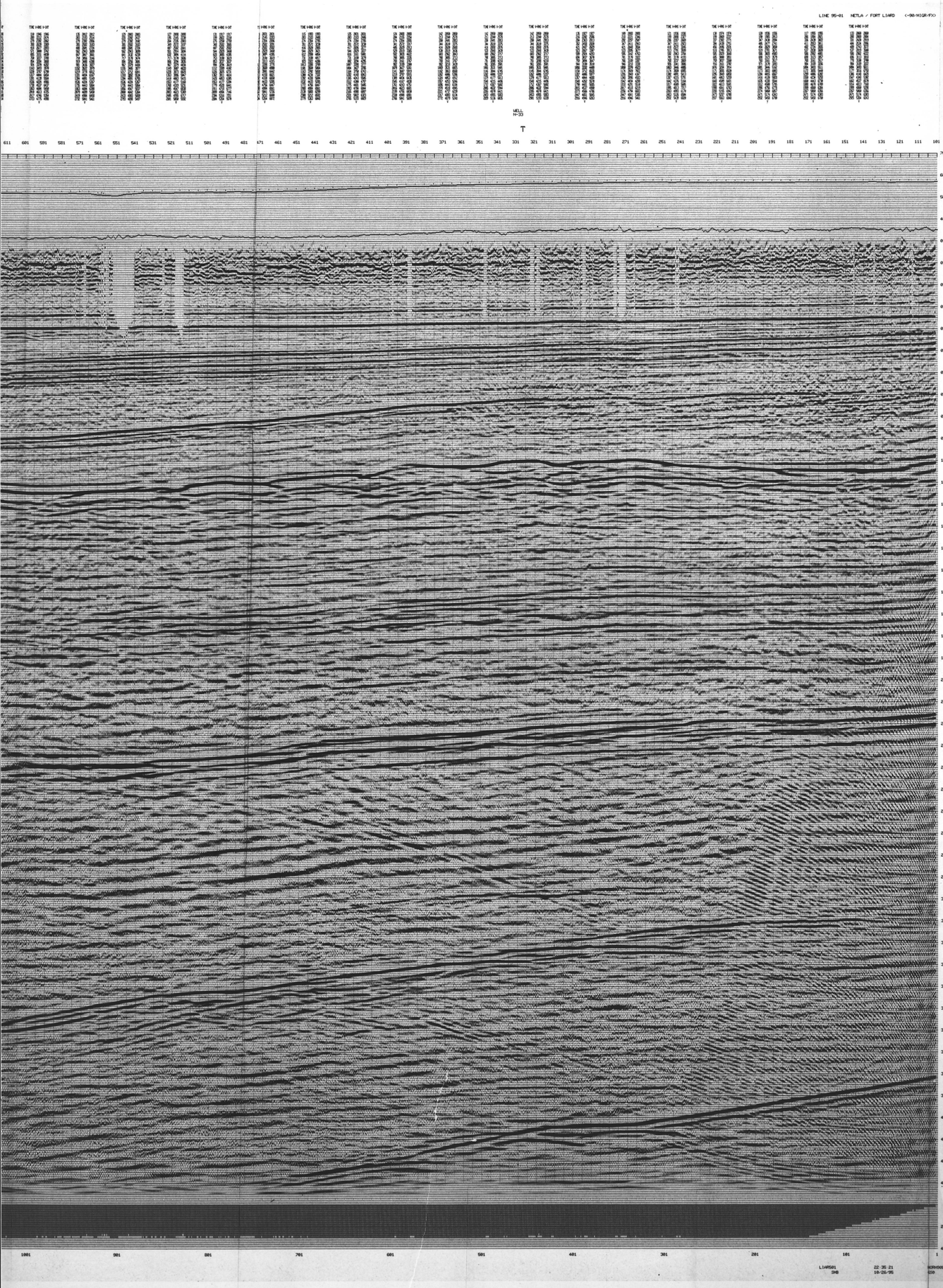
9229-B059-001E



Suncor inc.

RESOURCES GROUP

LINE: 95-01
PROJECT: NETLA
LOCATION: N.W.T.

C-5506

SP. 2201 ——→ N.E. SP. 101

MIGRATED STACK

POST STACK F-X NOISE REDUCTION

POLARITY ☒ NP ☐ RP

FIRST KICK POLARITY ABOVE FOLD BARS. PEAKS ARE POSITIVE NUMBERS

ACQUISITION PARAMETERS

SHOT FOR: SUNCOR INC.
SHOT BY: SCHLUMBERGER GECO-PRAKLA PTY. LTD
DATE: APRIL 1995

STATION NUMBERS: 101 - - - - - - - - 2201
SHOTPOINT NUMBERS: 101 ----- SHOT -----> 2201
SPREAD DIRECTION: N.E. S.W.
OFFSET DISTANCES: 3010M 30 ← 30 3010M
TRACE NUMBERS: 1 150 151 300

SOURCE INTERVAL: 100 M
RECEIVER INTERVAL: 20 M
ACQUISITION FOLD: 30

SPREAD DIAGRAM

SOURCE: VIBROSEIS: 4 VIBRATORS OVER 10 M.
NO. OF SWEEPS: 8. SWEEP LENGTH: 12 SEC.
SWEEP FREQUENCY: 10 - 100 HZ.
DRAG LENGTH: 110 M.

RECEIVERS: SENSOR, 14 HZ. TOPY. 12 PHONES OVER 20 M

INSTRUMENTS: I/O SYS I 300 TRACE
TAPE FORMAT: SEG-D
FIELD FILTERS: 3-120 HZ. NOTCH: OUT
SAMPLE RATE: 2 MS. REC LEN: 8.0 SEC.

PROCESSING PARAMETERS

PROCESSED BY GEO-X SYSTEMS LTD
DATE: MAY 1995 SMB

DIGITAL CONVERSION

AMPLITUDE RECOVERY (AT)*EXP(BT)

PHASE COMPENSATION GEOPHONES CONVERTED TO MINIMUM PHASE

DECONVOLUTION TYPE: ADAPTIVE 5 COMPONENT
SURFACE CONSISTENT SIGNATURE
- SURFACE CONSISTENT PREDICT
DOMAIN OFFSET DEPENDENT
WITH VIBRATOR PHASE CORRECTION
DOMAIN: FREQUENCY
GATE: 350 - 1800 MS. AT : 0 M. OFFSET
1800 - 2200 MS. AT 3010 M. OFFSET

STRUCTURAL CORRECTIONS DATUM ELEVATION DATUM VELOCITY
650 M. 2850 M./SEC
PROCESSING DATUM: -100 MS
ELEVATION, WEATHERING, AND DRIFT
3 LAYER MODEL (FIRST BREAK PLOTS)

NOTE: ALL FOLLOWING TIMES REFERENCED FROM PROCESSING DATUM

ANALYSIS PRELIMINARY VELOCITIES AND STATICS

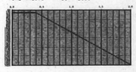
STATICS
TRACE KILLS SURFACE STACK RESIDUAL

VELOCITY ANALYSIS
FINAL MODEOUT TYPE: SEMBLANCE, COMMON OFFSET STACKS
ANALYSIS AND APPLICATION FROM SURFACE
EVERY 25 CDP (250 M.), LINEAR INTERPOLATION

MEAN SCALING WINDOW: 700 - 1800 MS.

TIME-VARIANT SCALING WINDOW: 0 - 700 MS.

MUTE OFFSET (M.): 200 3010
TIME (MS.): 400 2000



STATICS SURFACE CONSISTENT RESIDUAL
WINDOW: 400 - 1600 MS.

TRACE GATHER MAXIMUM FOLD: 32

STATICS CDP CROSS CORRELATION
GATE: 300 - 2100 MS. AT : 0 M. OFFSET
2000 - 2100 MS. AT 3110 M. OFFSET

STACK CROSS CORRELATION WEIGHTED
OFFSET LIMITS: 0 - 3110 M.

F-X NOISE REDUCTION BLOCK: 100 TRACES WINDOW: 300 MS.
PREDICTION FILTER: 20 TRACES. PW: 30 %
NOISE 100 BACK: 50 %

F-D MIGRATION 85 % THEORETICAL VELOCITIES

PHASE ROTATION -90 DEGREES

FILTER 10/14 - 70/80 HZ.

EQUALIZATION MEAN WINDOW: 700-1800 MS.

A.G.C. ADAPTIVE

DISPLAY PARAMETERS VERTICAL: 7.5 INCHES / SEC.
HORIZONTAL: 30 TRACES / INCH

SCALE: 1 INCH = 300 M.

KILOMETERS 0 0.25
MILES 0 0.25

COMMENTS:
ALL TIMES SHOWN ABOVE REFERENCED TO PROCESSING DATUM. -100 MS.

LIAR501 SMB 22:35:21 10-26-95 SCRHD000 1 OF 000

TRATHLON PROJ. NO. 9229 B 0 9 1E LINE NO. 95-01 PART NO. 1 OF 9 R.R. 10X