terra surveys ltd
2060 Walkley Rd. Ottawa, Ont.
Canada K1G 3P5
Tel. (613) 731-9571
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PROJ. NO. 9229-B59-1E LINE NO. 95-01 PART NO. 1 OF 4 R.R. 10X

95-01-B59-1E

Suncor inc.

RESOURCES GROUP

LINE: 95-01
PROJECT: NETLA C-5506
LOCATION: N.W.T.

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

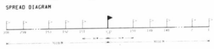
ACQUISITION PARAMETERS

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: VIBROSIS: 4 VIBRATORS OVER 10 M.
NO. OF SWEEPS: 6. SWEEP LENGTH: 12 SEC.
SWEEP FREQUENCY: 10 - 100 HZ.
DRAG LENGTH: 110 M.

RECEIVERS: SENSOR, 14 HZ, 70%. 12 PHONES OVER 20 M

INSTRUMENTS: I/O SYS 3 300 TRACE
TAPE FORMAT: SEG-D
FIELD FILTERS: 9-120 HZ. NOTCH: OUT
SAMPLE RATE: 2 MS. REC LEN: 8.0 SEC.

PROCESSING PARAMETERS

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

DIGITAL CONVERSION

AMPLITUDE RECOVERY: (AT(EXP(BT)

PHASE COMPENSATION: GEOPHONES CONVERTED TO MINIMUM PHASE

DECONVOLUTION: TYPE: ADAPTIVE 5 COMPONENT
SURFACE CONSISTENT SIGNATURE
SURFACE CONSISTENT SPECTRAL
BOWLIN OFFSET COMPONENT
WITH VIBRATOR PHASE CORRECTION
DOMAIN, FREQUENCY
GATE: 350 - 1900 MS. AT 0 M. OFFSET
1800 - 2200 MS. AT 3010 M. OFFSET

STRUCTURAL CORRECTIONS: DATUM ELEVATION DATUM VELOCITY
600 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

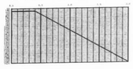
STATICS: SURFACE STACK RESIDUAL
TRACE KILLS

VELOCITY ANALYSIS: TYPE: SEMBLANCE, COMMON OFFSET STACKS
FINAL MUTEOUT: 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 ADD BACK: 50 %

F-D MIGRATION: 85 % THEORETICAL VELOCITIES

PHASE ROTATION: -90 DEGREES

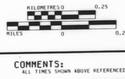
FILTER: 10/14 - 70/80 HZ.

EQUALIZATION: MEAN WINDOW: 700-1800 MS.

A.G.C.: ADAPTIVE

DISPLAY PARAMETERS: VERTICAL: 7.5 INCHES / SEC.
HORIZONTAL: 20 TRACES / INCH

SCALE: 1 INCH = 300 M.



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

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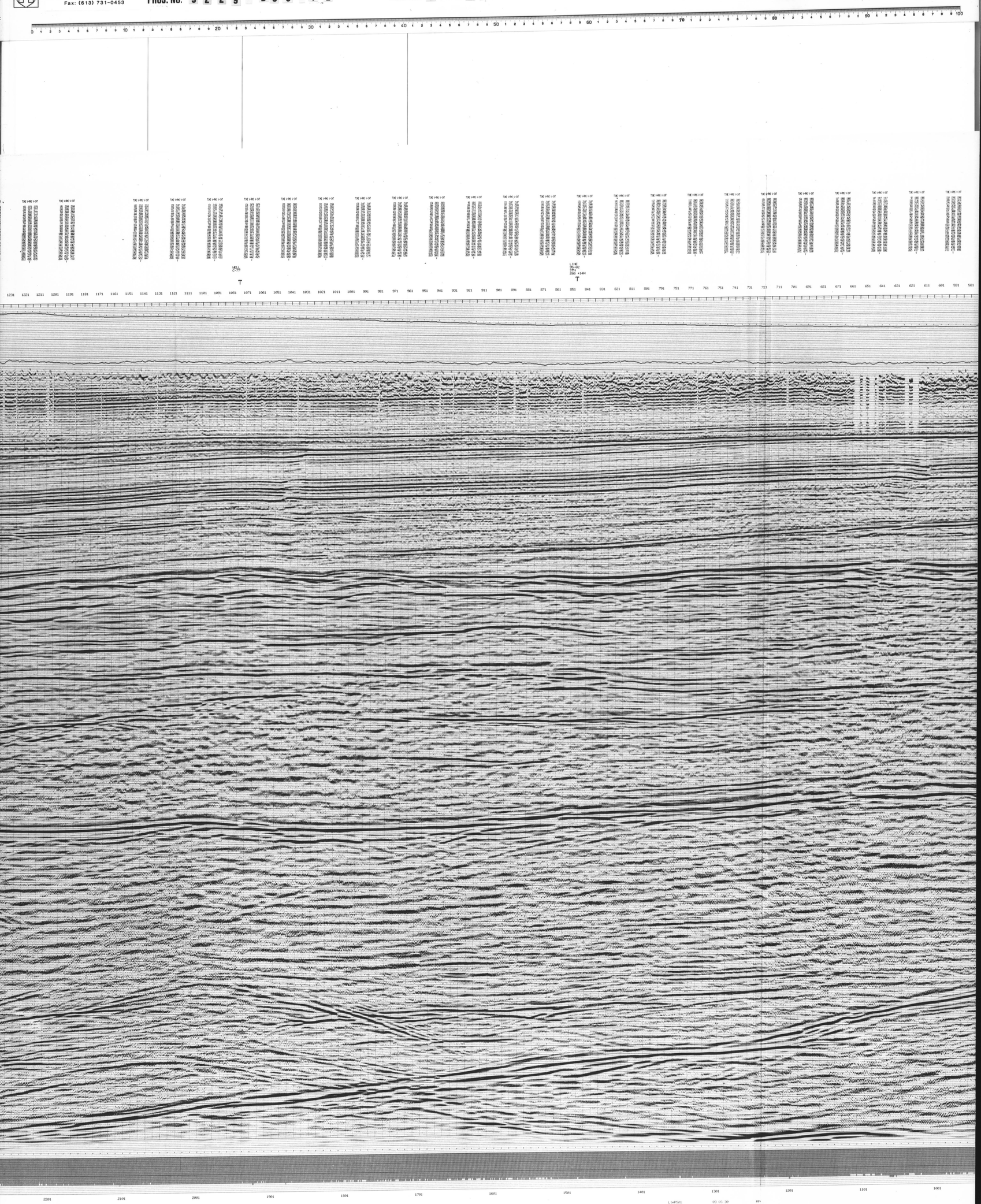
LINE NO. 95-01

PART NO. 2 OF 4

R.R. 10X



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LINE NO. 95-01
PART NO. 3 OF 4
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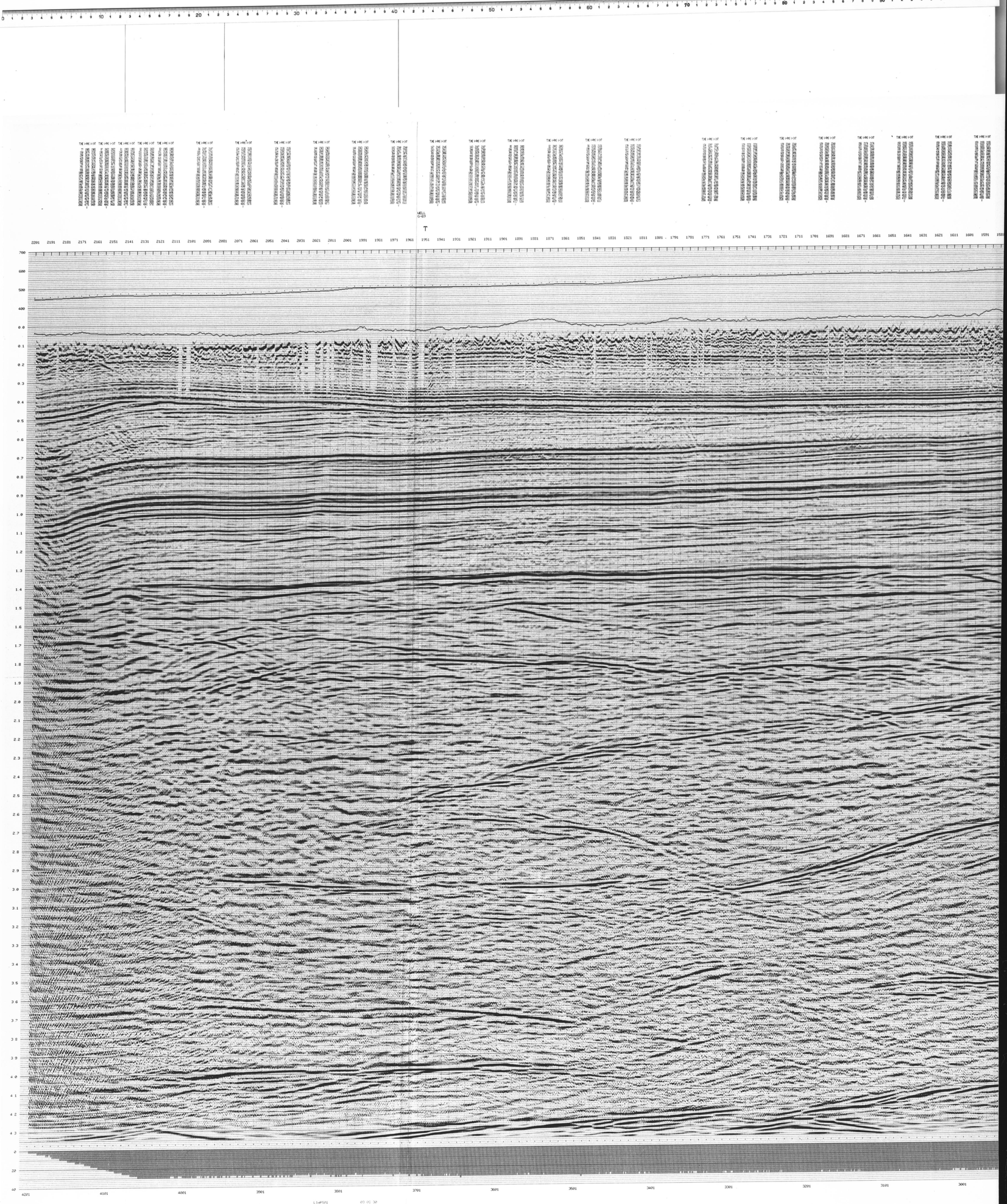
PROJ. NO. 9 2 2 9 - B 5 9 - 1 E

LINE NO. 9 5 - 0 1

PART NO. 4 OF 4

R.R. 10X