



2080 Wilfrid Rd.  
Ottawa, Ont.  
Canada K1G 3P5  
Tel: (613) 592-1000  
Cable: PETRO

PROJ. NO. 9 2 2 9 - P 2 8 - 1 2 E

LINE NO. 8 6 2 4

PART NO. 1 OF 4

R.R. 8X

928-128-RF

DRIFT STATICS MODELLED BY WESTERN

Bele

H0571 R148-01

LINE 8624  
V.P. 103-1969  
STRUCTURAL STACK

NORMAL POLARITY  
EAST

# PETRO-CANADA INC.

PROCESSED BY WESTERN GEOPHYSICAL DIVISION OF LITTON INDUSTRIES

AREA: THEED LAKE, N.H.T.

SURVEY DATE: DECEMBER 1985  
PROCESSING DATE: FEBRUARY 1986  
RECORDED BY: WESTERN GEOPHYSICAL CO. LTD.  
REPLACEMENT VELOCITY: 6000 M/SEC  
DATUM ELEVATION: 305 METERS

## RECORDING INFORMATION

SOURCE:  
ENERGY SOURCE: VIBROSEIS  
VIBRATOR MODEL: LRS-300  
SHEEP FREQUENCY: 20-100 HZ LINEAR  
SHEEP LENGTH: 6 SEC  
NUMBER OF SHEEPS: 6  
DIMS LENGTH: 80 M  
SOURCE TO FIRST RECEIVER: 80 M  
VIB. POINT INTERVAL: 40 M  
GROUPS DROPPED IN GAP: 7

INSTRUMENTS:  
AMPLIFIER: OPS V  
FILTER: OUT-128 HZ  
SAMPLING INTERVAL: 2 MS  
RECORD LENGTH: 9 SEC  
60 HZ NOTCH FILTER: OUT  
TIME FORMAT: SEC-B

RECEIVERS:  
GEOPHONE TYPE: LRS-1011 14 HZ  
GEOPHONES PER GROUP: 9 OVER 20 M  
GROUPS RECORDED: 20  
GROUP INTERVAL: 20 M  
PERCENT COVERAGE: 2400 %

SPREAD GEOMETRY:  
SOURCE: 1 48 48 90  
TRACE: 1020 M 80 M 80 M 1020 M  
DISTANCE: 1020 M 80 M 80 M 1020 M

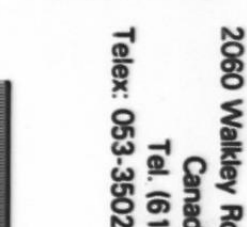
## PROCESSING SEQUENCE AND PARAMETERS

- PROCESSING SEQUENCE INTERVAL 2 MS.
1. DEMULTIPLEX:  
VIBROSEIS CORRELATION  
PROCESSED TO 3.0 SECONDS
  2. TRACE EDIT:  
VISUAL QC OF EVERY RECORD
  3. GEOMETRY COMPUTATIONS:  
ELEVATIONS AND DISTANCES
  4. 60 HZ NOTCH FILTER:  
ATTENUATE 20 DB  
5 - 12.5 MS/10
  5. F-K DOMAIN FILTER:  
LRS-1011 14 HZ GEOPHONES
  6. PHASE COMPENSATION:  
TIME FUNCTION EXPONENTIAL VALUE OF 2.5
  7. AMPLITUDE COMPENSATION:  
NO. OF WINDOWS: 200 MS  
NEAR TRACE START TIME: 200 MS  
START TIME VELOCITY: 6000 M/SEC  
WINDOW LENGTH: 1000 MS  
PERCENT PRE-WHITENING: 0.1 %
  8. ZERO-PHASE FREQUENCY DECONVOLUTION:  
NO. OF WINDOWS: 200 MS  
NEAR TRACE START TIME: 200 MS  
START TIME VELOCITY: 6000 M/SEC  
WINDOW LENGTH: 1000 MS  
MINIMUM PREDICTION DISTANCE: 20 MS  
OPERATION LENGTH: 100 MS  
PERCENT PRE-WHITENING: 0.1 %
  9. PREDICTIVE DECONVOLUTION:  
TYPE: MINIMUM PHASE INVERSE FILTER  
NO. OF WINDOWS: 200 MS  
NEAR TRACE START TIME: 200 MS  
START TIME VELOCITY: 6000 M/SEC  
WINDOW LENGTH: 1000 MS  
MINIMUM PREDICTION DISTANCE: 20 MS  
OPERATION LENGTH: 100 MS  
PERCENT PRE-WHITENING: 0.1 %
  10. C.D.P. SORT
  11. STATIC COMPUTATIONS:  
MODEL BASED REFRACTION  
DRIFT AND WEATHERING CORRECTIONS  
WINDOW: 250 - 1000 MS
  12. AUTOMATIC STATISTICS (MISEP)  
SHIFT LIMIT: +/- 24 MS
  13. VELOCITY ANALYSIS (VELAMP)  
SHIFT LIMIT: +/- 24 MS
  14. NORMAL MOVEOUT CORRECTION
  15. MUTE PATTERN:  
DISTANCE (METERS): 0 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900  
TIME (MS.): 0 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900
  16. STACK:  
2400 % EQUAL WEIGHTS  
WITH CDP CORRELATION TRIM STATICS
  17. TIME VARIANT FILTER:  
TIME VARIANT FILTER APPLIED  
0-1000 20-80 HZ 18/AS 80/STAVE  
1200-1000 20-70 HZ 18/AS 80/STAVE
  18. REFLECTION STRENGTH GAIN:  
WAXING STAND OUT AFTER GAIN: 2.0
  19. RMS GAIN:  
100/1000 MS WINDOWS

## DISPLAY PARAMETERS

HORIZONTAL SCALE: 24 TRACES PER INCH  
VERTICAL SCALE: 7.5 INCHES PER SECOND  
PLOTING GAIN: 12 DB





**PROJ. NO.**

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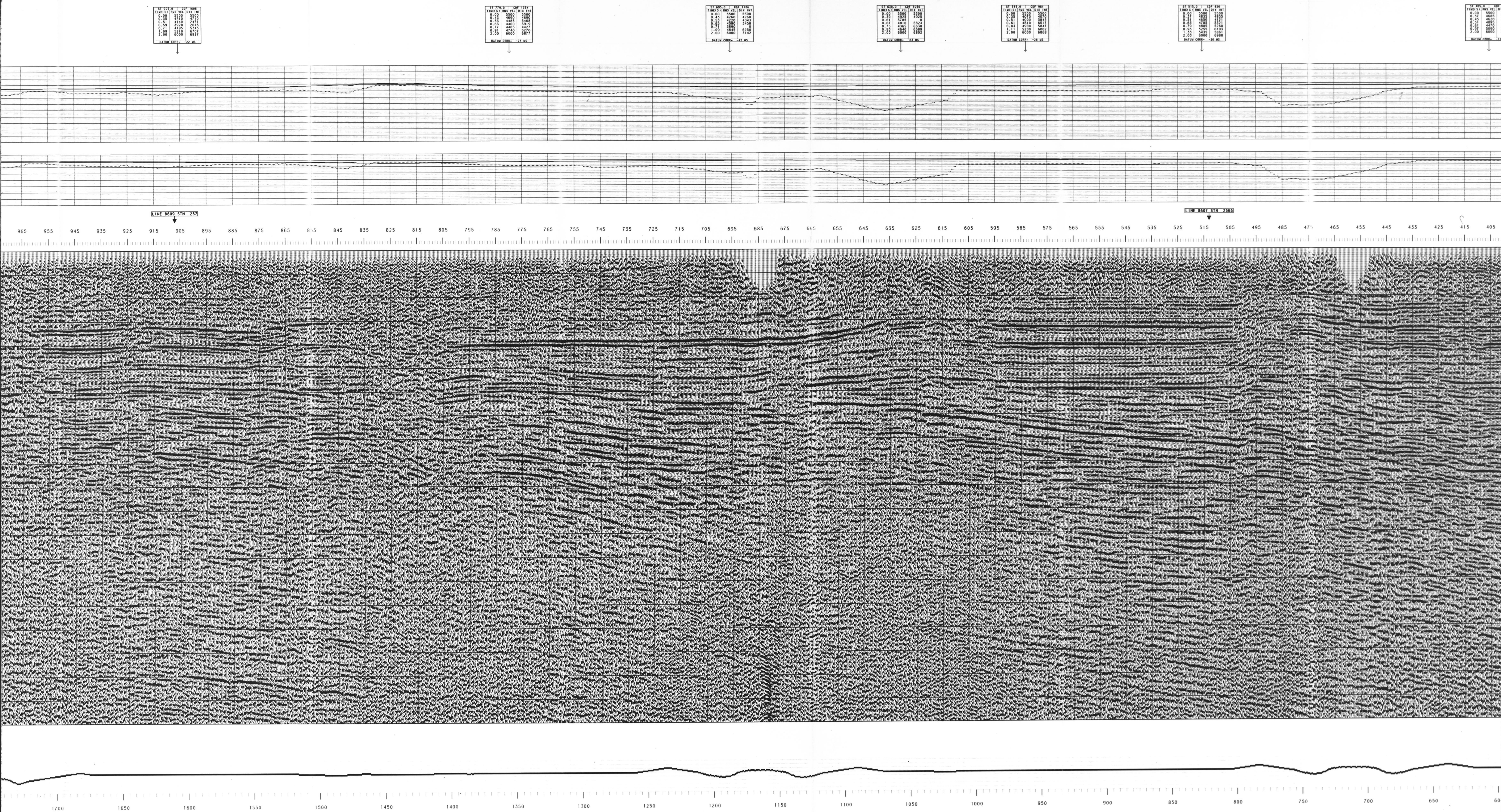
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**P**

NO.

**OF**

8X







2080 Wabash Rd.  
Chicago, Ill.  
Tel. (618) 731-2571  
Telex 063-350  
Cable TERRA

PROJ. NO.

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PART NO. 3 OF 4

R.R. 8X

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|                      |          |         |
|----------------------|----------|---------|
| ST 1474.0            | CDP 2743 |         |
| TIME(S)              | RMS VEL  | DIX INT |
| 0.00                 | 5500     | 5500    |
| 0.31                 | 4855     | 4855    |
| 0.47                 | 4650     | 4225    |
| 0.63                 | 4665     | 4709    |
| 0.89                 | 4730     | 4884    |
| 1.05                 | 4835     | 5382    |
| 2.00                 | 6000     | 7068    |
| DATION CORR. = 28 WS |          |         |





2080 Watline Rd.  
Chesley, Ont.  
Canada K1G 3K5  
Tel: (905) 739-3571  
Fax: (905) 739-3572  
E-mail: terra@terraenergy.com

PROJ. NO.

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LINE NO.

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PART NO.

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R.R. 8X

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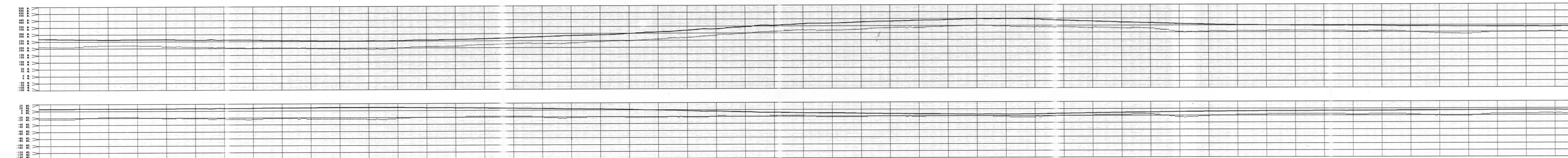
| TIME (S) | WELL | DATE |
|----------|------|------|
| 0.00     | 4860 | 4860 |
| 0.10     | 4860 | 4860 |
| 0.20     | 4860 | 4860 |
| 0.30     | 4860 | 4860 |
| 0.40     | 4860 | 4860 |
| 0.50     | 4860 | 4860 |
| 0.60     | 4860 | 4860 |
| 0.70     | 4860 | 4860 |
| 0.80     | 4860 | 4860 |
| 0.90     | 4860 | 4860 |
| 1.00     | 4860 | 4860 |
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| 1.70     | 4860 | 4860 |
| 1.80     | 4860 | 4860 |
| 1.90     | 4860 | 4860 |
| 2.00     | 4860 | 4860 |

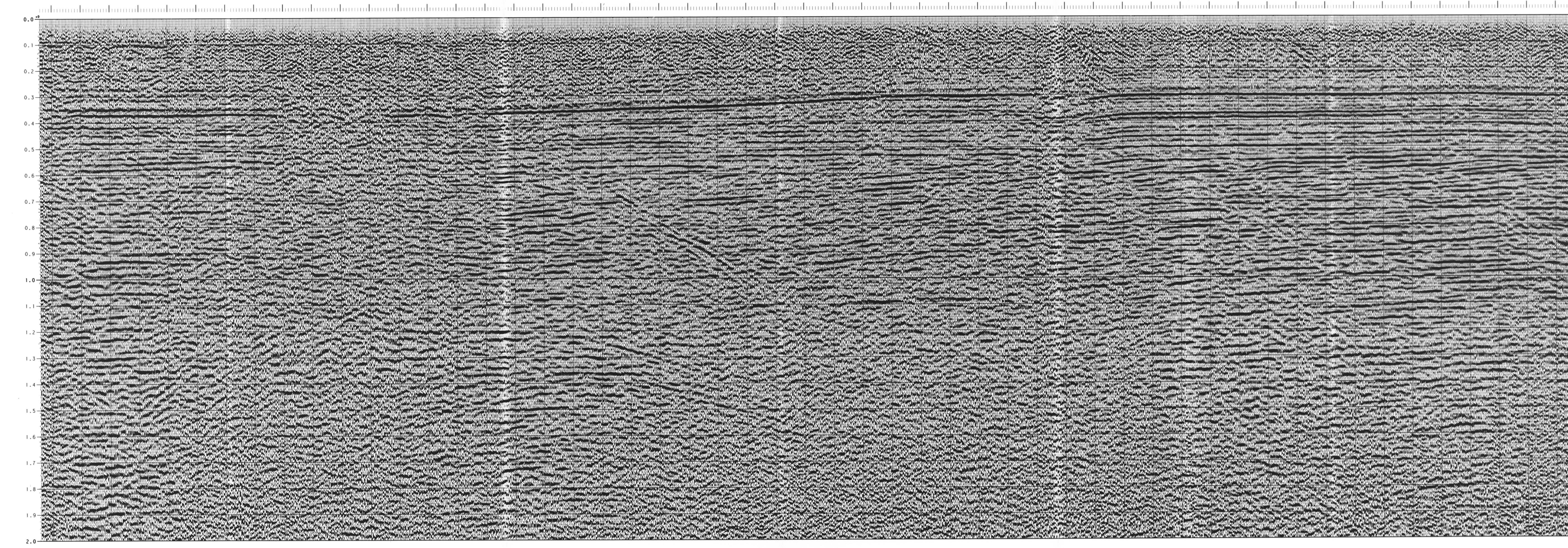
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LINE 8604 STN 2300

VP 1965 1955 1945 1935 1925 1915 1905 1895 1885 1875 1865 1855 1845 1835 1825 1815 1805 1795 1785 1775 1765 1755 1745 1735 1725 1715 1705 1695 1685 1675 1665 1655 1645 1635 1625 1615 1605 1595 1585 1575 1565 1555 1545 1535 1525 1515 1505 1495 1485 1475 1465 1455 1445



CDP 3733 3700 3650 3600 3550 3500 3450 3400 3350 3300 3250 3200 3150 3100 3050 3000 2950 2900 2850 2800 2750 2700