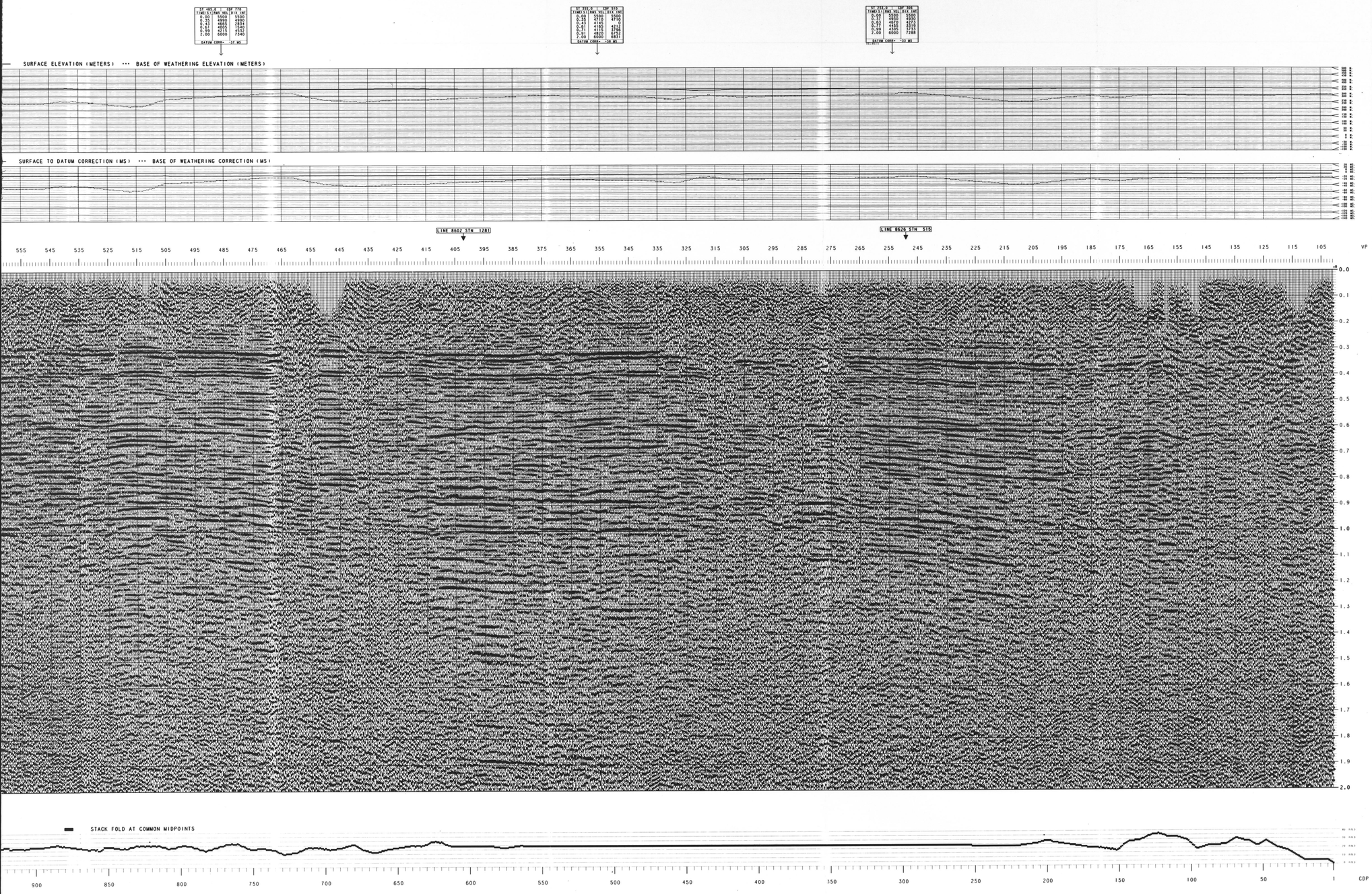


0229-P28-12E

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# LINE 8615
## V.P. 101-922
## STRUCTURAL STACK

REVERSE POLARITY

SOUTH-EAST

## PETRO-CANADA INC.

PROCESSED BY WESTERN GEOPHYSICAL — DIVISION OF LITTON INDUSTRIES

### AREA: TWEED LAKE, N.W.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-305 |
| SWEEP FREQUENCY | 20-100 HZ LINEAR |
| SWEEP LENGTH | 6 SEC |
| NUMBER OF SWEEPS | 6 |
| DRAG LENGTH | 40 M |
| SOURCE TO FIRST RECEIVER | 80 M |
| VIB. POINT INTERVAL | 40 M |
| GROUPS DROPPED IN GAP | 7 |

INSTRUMENTS:

| | |
|---|---|
| AMPLIFIER | DFS V |
| FILTER | OUT-128 HZ |
| SAMPLING INTERVAL | 2 MS |
| RECORD LENGTH | 9 SEC |
| 60 HZ NOTCH FILTER | OUT |
| TAPE FORMAT | SEG-B |

RECEIVERS:

| | |
|---|---|
| GEOPHONE TYPE | LRS-1011 14 HZ |
| GEOPHONES PER GROUP | 9 OVER 20 M |
| GROUPS RECORDED | 96 |
| GROUP INTERVAL | 20 M |
| PERCENT COVERAGE | 2400 % |

SPREAD GEOMETRY:

| | | | | | | |
|---|---|---|---|---|---|---|
| SOURCE: | | | * | | | |
| TRACE: | 1 | 48 | * | 49 | | 96 |
| DISTANCE: | 1020 M | 80 M | * | 80 M | | 1020 M |

### PROCESSING SEQUENCE AND PARAMETERS

PROCESSING SAMPLE INTERVAL 2 MS.

1. DEWULTIPLEX:
   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
5. F-K DOMAIN FILTER:
   ATTENUATE DIPS OF
   5 - 12.5 MS/TR
6. PHASE COMPENSATION:
   LRS-1011 14 HZ GEOPHONES
7. AMPLITUDE COMPENSATION:
   TIME FUNCTION EXPONENTIAL VALUE OF 2.5
8. ZERO-PHASE FREQUENCY DECONVOLUTION:
   NO. OF WINDOWS 1
   NEAR TRACE START TIME 200 MS
   START TIME VELOCITY 6000 M/SEC
   WINDOW LENGTH 1000 MS
   PERCENT PRE-WHITENING 0.1 %
9. PREDICTIVE DECONVOLUTION:
   TYPE: MINIMUM PHASE INVERSE FILTER
   NO. OF WINDOWS 1
   NEAR TRACE START TIME 200 MS
   START TIME VELOCITY 6000 M/SEC
   WINDOW LENGTH 1000 MS
   MINIMUM PREDICTION DISTANCE 20 MS
   OPERATOR LENGTH 100 MS
   PERCENT PRE-WHITENING 0.1 %
10. C.D.P. SORT
11. STATIC COMPUTATIONS:
    MODEL BASED REFRACTION
    DRIFT AND WEATHERING CORRECTIONS
12. AUTOMATIC STATICS (WISER®):
    WINDOW 250 - 1000 MS
    SHIFT LIMIT +/- 24 MS
13. VELOCITY ANALYSIS (VELAN®):
14. NORMAL MOVEOUT CORRECTION
15. MUTE PATTERN:

| DISTANCE (METERS) | TIME (MS.) |
|---|---|
| 180 | 0 |
| 280 | 150 |
| 600 | 280 |
| 700 | 500 |
| 1000 | 1000 |

16. STACK:
    2400 % EQUAL WEIGHTS
    WITH CDP CORRELATION TRIM STATICS
17. TIME VARIANT FILTER:

| TIME (MS) | FILTER APPLIED |
|---|---|
| 0-1000 | 20-90 HZ, 18/48 DB/OCTAVE |
| 1200-2000 | 20-70 HZ, 18/48 DB/OCTAVE |

18. REFLECTION STRENGTH GAIN:
    WINDOW STAND OUT AFTER GAIN: 2.0
19. RMS GAIN:
    100/800 MS WINDOWS

### DISPLAY PARAMETERS

| | |
|---|---|
| HORIZONTAL SCALE | 24 TRACES PER INCH |
| VERTICAL SCALE | 7.5 INCHES PER SECOND |
| PLOTTING GAIN | 12 DB |

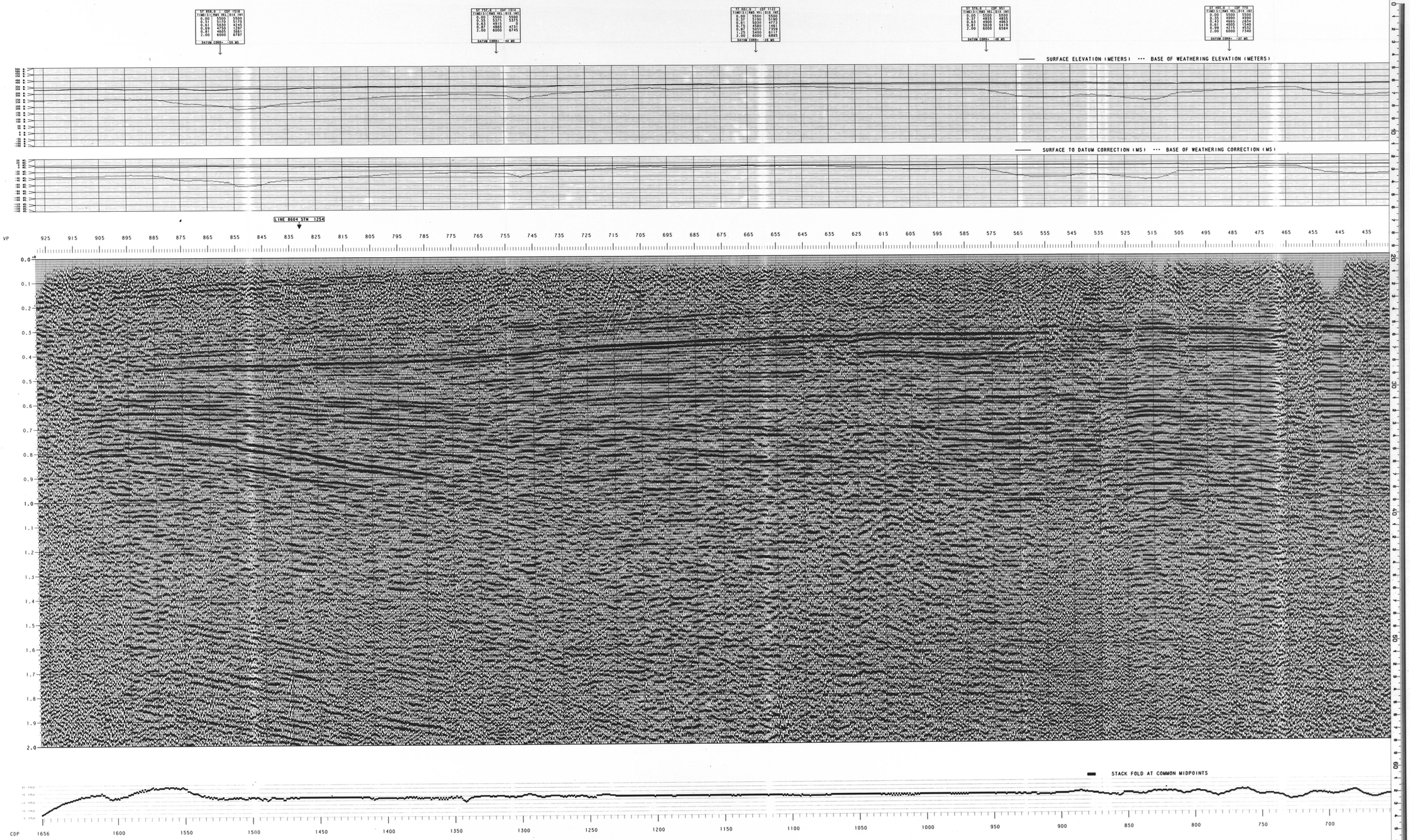

Western Geophysical
2080 Walkley Rd.
Ottawa, Ont.
Canada K1G 3P5
Tel. (613) 731-9571
Telex: 053-3502
Cable: TERRA


PROJ. NO. 9229-P28-12E

LINE NO. 8615

PART NO. 1 OF 2

R.R. 8X




Canada K1G 3P5
Ottawa, Ont.
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PART NO. 2 OF 2

R.R. 8X