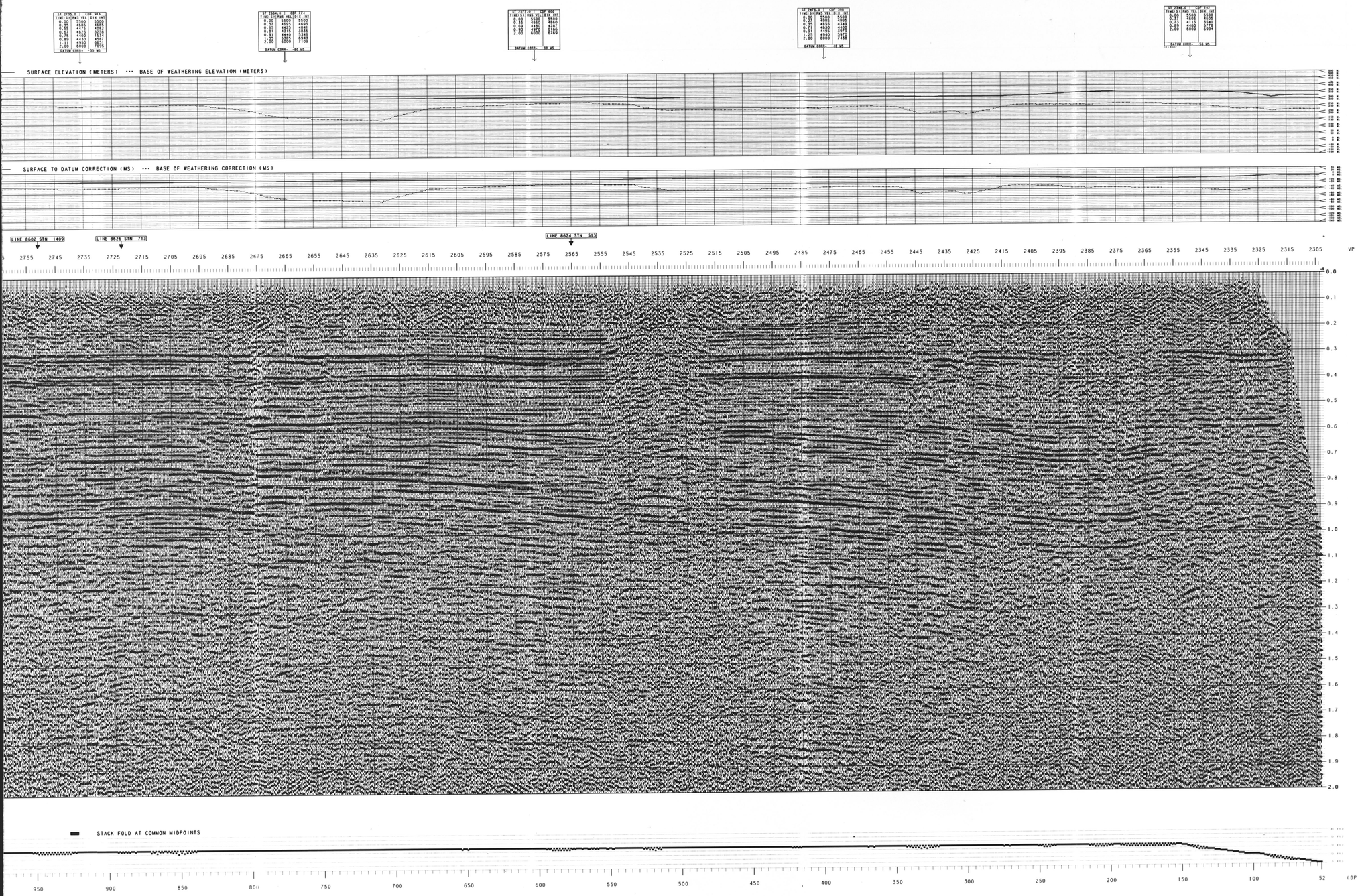


9229-P28-12E

LINE 8607

V.P. 2329-3101

STRUCTURAL STACK

NORMAL POLARITY

SOUTH-EAST

106413

PETRO-CANADA INC.

PROCESSED BY WESTERN GEOPHYSICAL DIVISION OF LITTON INDUSTRIES

AREA: TWEED LAKE, N.W.T.

SURVEY DATE:	JANUARY 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
SWEEP FREQUENCY	20-100 HZ LINEAR
SWEEP LENGTH	4 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	7 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. 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
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 3
   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
   OPERATOR 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 (WISEM™):
    WINDOW 250 - 1000 MS
    SHIFT LIMIT +/- 24 MS
13. VELOCITY ANALYSIS (VELANM™):
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:
    MAXIMUM GAIN OUT AFTER GAIN: 2.0
19. RMS GAIN:
    100/800 MS WINDOWS

DISPLAY PARAMETERS

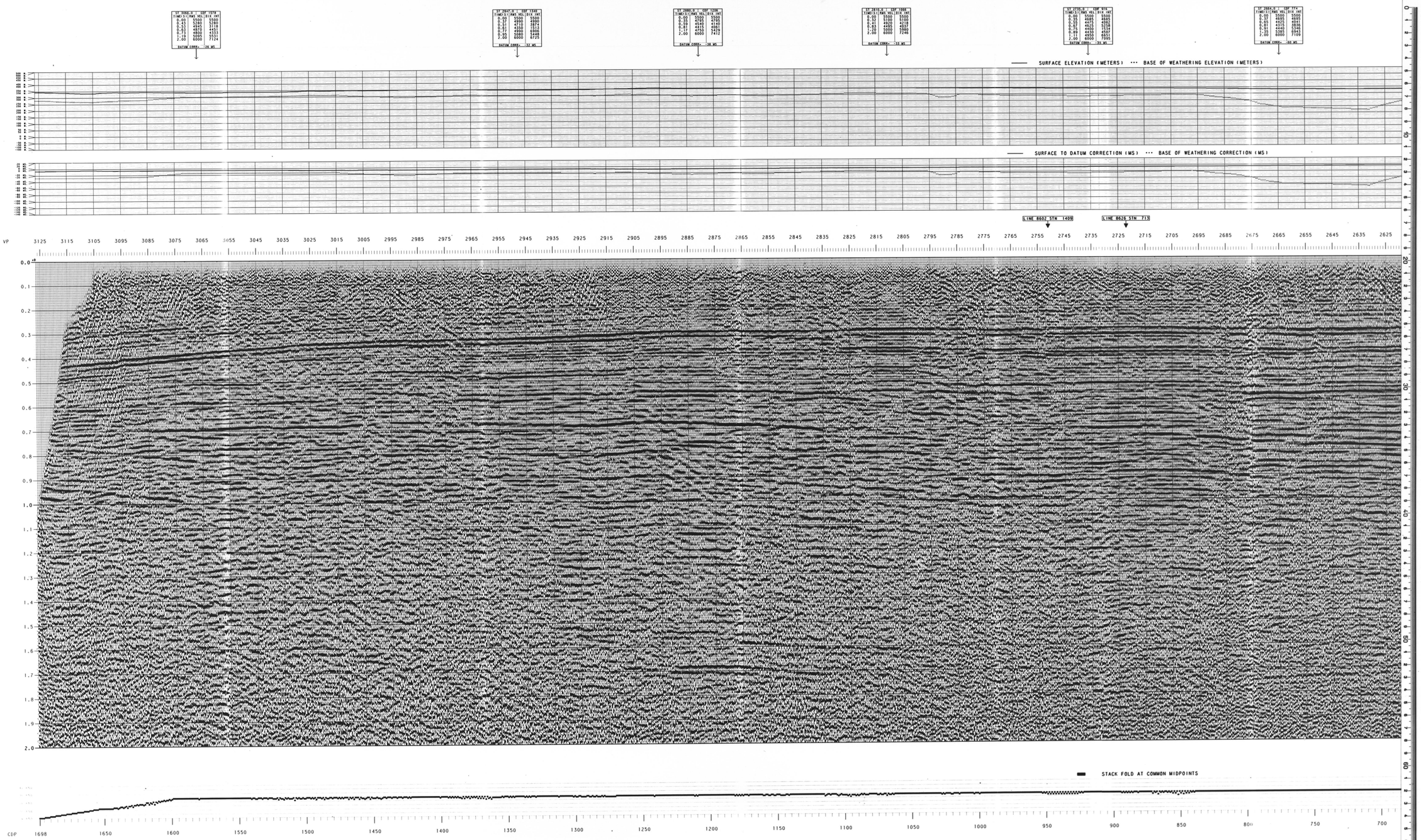
HORIZONTAL SCALE	24 TRACES PER INCH
VERTICAL SCALE	7.5 INCHES PER SECOND
PLOTTING GAIN	12 DB

bmr
Bureau de recherches minérales
2060 Walkley Rd. Ottawa, Ont.
Canada K1G 3P5
Telex: 053-3502 Tel: (613) 731-3471
Cable: TERRA

PROJ. NO. 9229-P28-12E

LINE NO. 8607

PART NO. 1 OF 2 R.R. 8X



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

LINE NO. 8 6 0 7

PART NO. 2 OF 2

R.R. 8X