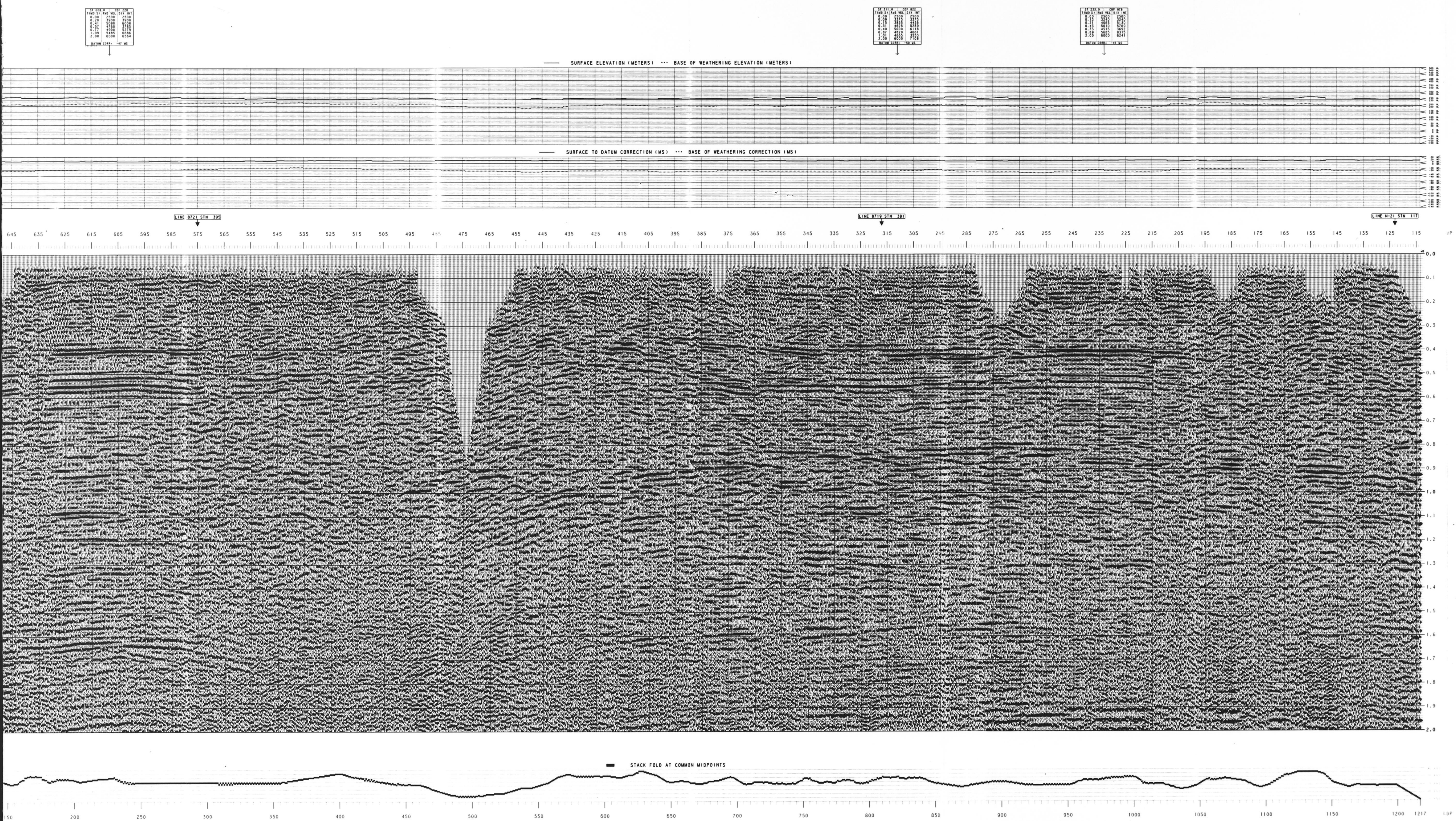

9229-P28-13E

LINE 8716

V.P. 677-126

STRUCTURAL STACK
(DYNAMITE REFRACTION)
REVERSE POLARITY

NORTH-EAST →

PETRO-CANADA INC.

106423

PROCESSED BY WESTERN GEOPHYSICAL DIVISION OF LITTON INDUSTRIES

AREA: COLVILLE, N.W.T.

SURVEY DATE:	JANUARY 1985
PROCESSING DATE:	MAY 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-309
SWEEP FREQUENCY	20-100 HZ LINEAR
SWEEP LENGTH	12 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	15 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 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:
    DYNAMITE REFRACTION RECORDS
    INTERPRETED BY STATCOM LTD.
12. AUTOMATIC STATICS (MISER®):
    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:
    MAXIMUM 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

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

PROJ. NO. 9229-P28-13E

LINE NO. 8716

PART NO. 2 OF 2

R.R. 10X

SURFACE ELEVATION (METERS) ··· BASE OF WEATHERING ELEVATION (METERS)

SURFACE TO DATUM CORRECTION (MS) ··· BASE OF WEATHERING CORRECTION (MS)

LINE 8721 STN 355

LINE 8715 STN 381

VP 675 665 655 645 635 625 615 605 595 585 575 565 555 545 535 525 515 505 495 485 475 465 455 445 435 425 415 405 395 385 375 365 355 345 335 325 315 305 295 285 275 265 255 245 235 225 215 205 195 185 175

0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0

STACK FOLD AT COMMON MIDPOINTS

CDP 90 100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900 950 1000 1050 1100