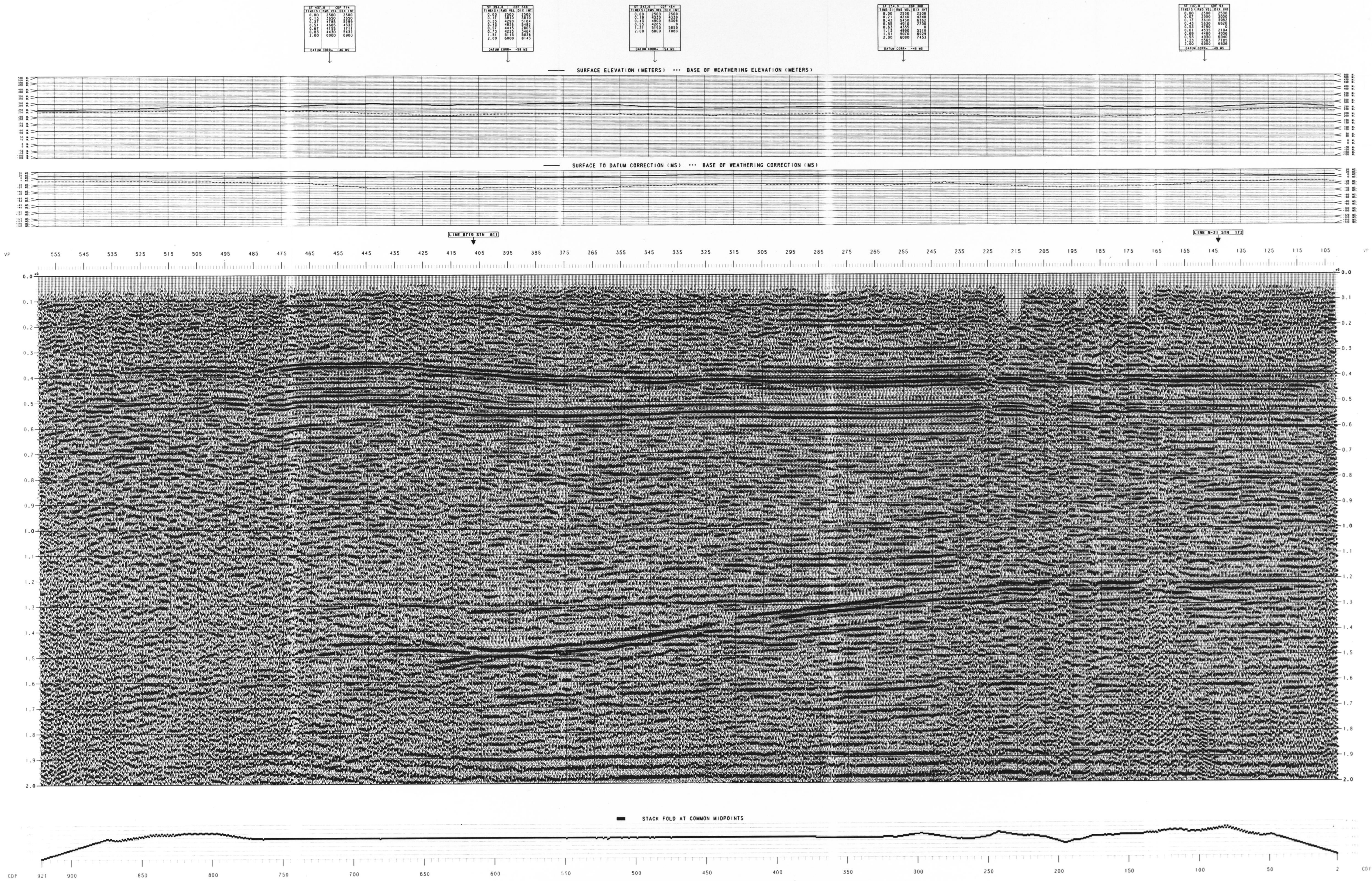

9229-P28-13E

LINE 8718

V.P. 102-559

STRUCTURAL STACK
(DYNAMITE REFRACTION)
REVERSE POLARITY

EAST →

106432

PETRO-CANADA INC.

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

PROJ. NO. 9229-P28-13E
LINE NO. 8718
PART NO. 1 OF 1

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