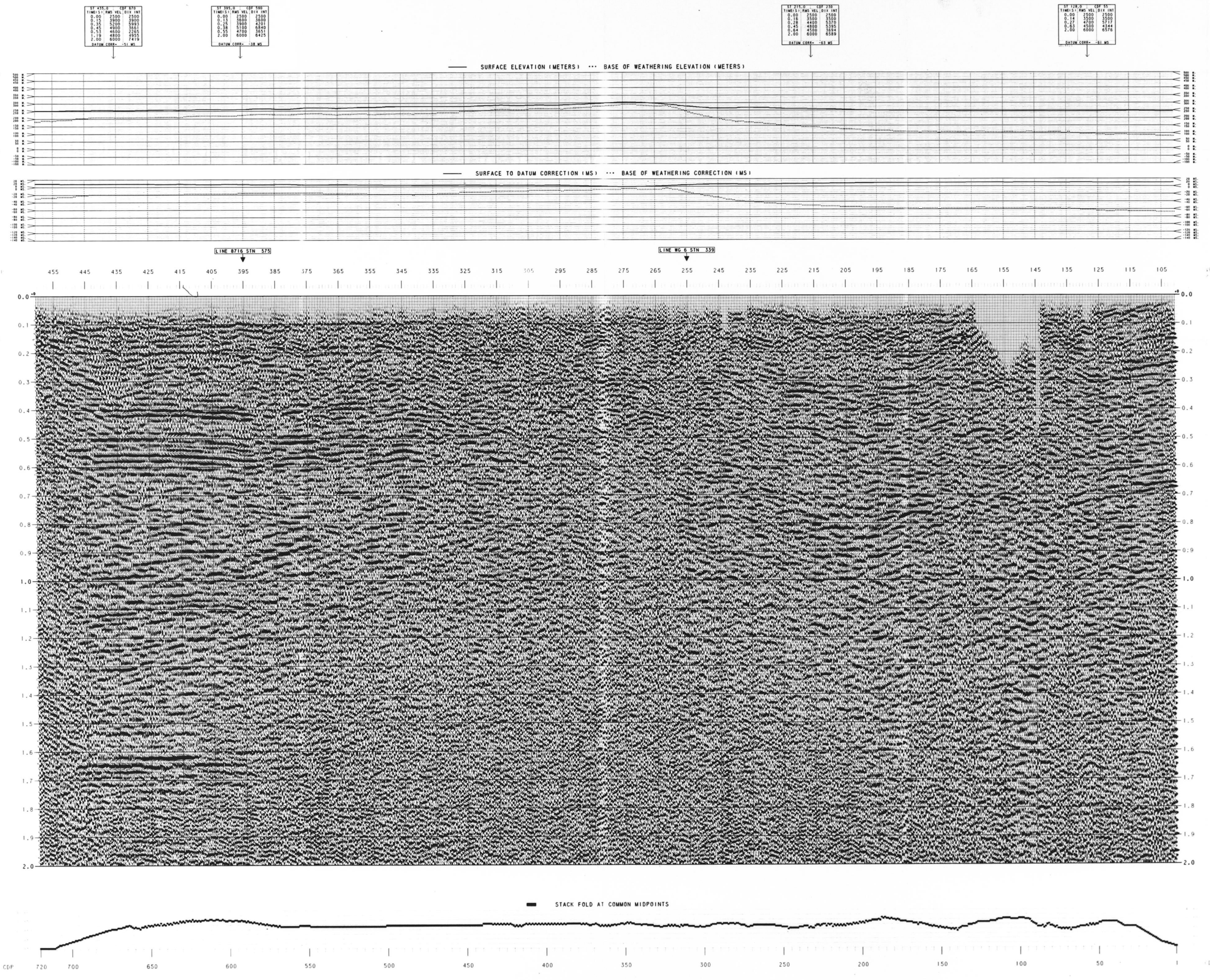




929 - 0 - 13 E

LINE 8721
V.P. 101-461
STRUCTURAL STACK
(DYNAMITE REFRACTION)
NORMAL POLARITY
SOUTH-EAST

PETRO-CANADA INC.

PROCESSED BY WESTERN GEOPHYSICAL DIVISION OF LITTON INDUSTRIES

AREA: COLVILLE, N.M.T.

SURVEY DATE: JANUARY 1985
PROCESSING DATE: MAY 1985
RECORDED BY: WESTERN GEOPHYSICAL CO. LTD.
REPLACEMENT VELOCITY: 5000 M/SEC.
DATUM ELEVATION: 305 METERS

RECORDING INFORMATION

SOURCE:
ENERGY SOURCE: VIBROSEIS
VIBRATOR MODEL: LRS-300
SHEEP FREQUENCY: 20-100 HZ LINEAR
SHEEP LENGTH: 12 SEC
NUMBER OF SHEEPS: 4
DRAG LENGTH: 60 M
SOURCE TO FIRST RECEIVER: 60 M
100' PITCH INTERVAL
GROUPS DROPPED IN GAP: 2

INSTRUMENTS:
AMPLIFIER: OPS V
FILTER: OUT-100 HZ
SAMPLING INTERVAL: 2 MS
RECORD LENGTH: 15 SEC
60 HZ NOTCH FILTER
TIME FORMAT: SEC-D

RECEIVERS:
GEOPHONE TYPE: LRS-1011 1N HZ
GEOPHONES PER GROUP: 9 OVER 20 M
GROUPS RECORDED: 96
GROUP INTERVAL: 20 M
PERCENT COVERAGE: 2500 X

SPREAD GEOMETRY:
SOURCE: 1 48 40 96
TRACES: 1000 M 80 M 20 M 1000 M
DISTANCE: 1000 M 80 M 20 M 1000 M

PROCESSING SEQUENCE AND PARAMETERS

PROCESSING SAMPLE INTERVAL: 2 MS.

1. DEMULTIPLY:
- BRIDGE CORRELATION
- PROCESSED TO 3.5 SECONDS
2. TRACE EDIT:
- 1000 SEC OF EVERY RECORD
3. GEOMETRY COMPUTATIONS:
- ELEVATIONS AND DISTANCES
4. 60 HZ NOTCH FILTER
5. F-K DOMAIN FILTER:
- ATTENUATE 10% OF
- 10-100 M/SEC
6. PHASE COMPENSATION:
- 10-100 M/SEC
7. AMPLITUDE COMPENSATION:
- TIME FUNCTION CORRELATION VALUE OF 2.5
8. ZERO-PHASE FREQUENCY DECONVOLUTION:
- NO. OF WINDOWS: 4
- NEAR PACE 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: 4
- NEAR PACE 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:
- COMMON REFRACTION RECORDS
- IDENTIFIED BY SURVEY LOG
12. AUTOMATIC STATISTICS (W/SEMPH):
- NUMBER: 250 - 1000 MS
- GATE LIMIT: 24 MS
13. VELOCITY ANALYSIS (VELANAL):
- 2000-1000 20-50 HZ 10-40 HZ 00-07 HZ
14. NORMAL MOVEMENT CORRECTION
15. NOTE PATTERN:
- DISTANCE (METERS): TIME (MS) 1-1
- 0 100 200 300 400 500 600 700 800 900 1000
16. STACK:
- PACE: EQUAL WEIGHTS
- WITH CDP CORRELATION FROM STATICS
17. TIME VARIANT FILTER:
- TIME (MS): FILTER APPLIED
- 0-1000 20-50 HZ 10-40 HZ 00-07 HZ
18. REFLECTION STRENGTH GAIN:
- MINIMUM STRENGTH: 2.0
- MAXIMUM STRENGTH: 2.0
- RMS GAIN: 100-1000 M/SEC

DISPLAY PARAMETERS

HORIZONTAL SCALE: 20 TRACES PER INCH
VERTICAL SCALE: 7.5 INCHES PER SECOND
PLOTting GRIN: 12 00