



2000 Valley Rd.
Ottawa, Ont.
Canada K1G 3P5
Tel: (613) 231-8571
Cable: TERRA
PROJ. NO. 9 2 2 9 - P 2 8 - 1 2 E

LINE NO. 8 6 0 4

PART NO. 1 OF 3

R.R. 8X

LINE 8604
V.P. 1195-2625
STRUCTURAL STACK

NORMAL POLARITY
NORTH-EAST

PETRO-CANADA INC.

PROCESSED BY WESTERN GEOPHYSICAL DIVISION OF LITTON INDUSTRIES

AREA: THEED LAKE, N.W.T.

SURVEY DATE: MARCH 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
SWEPT FREQUENCY: 20-100 HZ LINEAR
SWEPT LENGTH: 4 SEC
NUMBER OF SWEEPS: 6
DRUG LENGTH: 40 M
SOURCE TO FIRST RECEIVER: 80 M
VIB. POINT INTERVAL: 40 M
GROUPS GROUPED IN GCP: 7

INSTRUMENTS:

AMPLIFIER: DFS V
FILTER: OUT-120 HZ
SAMPLING INTERVAL: 2 MS
RECORD LENGTH: 7 SEC
60 HZ NOTCH FILTER: OUT
TYPE FORMAT: SEG-9

RECEIVERS:

GEOPHONE TYPE: LRS-1001 1N HZ
GEOPHONES PER GROUP: 9 OVER 20 M
GROUPS RECORDED: 96
GROUP INTERVAL: 20 M
PERCENT COVERAGE: 2400 X

SPREAD GEOMETRY:

SOURCE: 1 40 40 96
TRACE: 1 80 M 80 M 1020 M
DISTANCE: 1 80 M 80 M 1020 M

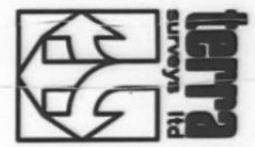
PROCESSING SEQUENCE AND PARAMETERS

PROCESSING SAMPLE INTERVAL: 2 MS.

1. DEMULTIPLIER:
VIBROSEIS CORRELATION
PROCESSED TO 3.0 SECONDS
2. TRACE EDIT:
VISUAL, SC OF EVERY RECORD
3. GEOMETRY COMPUTATIONS:
ELEVATIONS AND DISTANCES
4. 60 HZ NOTCH FILTER
5. F-H DOMAIN FILTER:
ATTENUATE DIPS OF
5-12.5 M/SEC
6. PHASE COMPENSATION:
LRS-1001 1N 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 X
9. PREDICTIVE DECONVOLUTION:
TYPE: WINDOW PHASE INVERSE FILTER
NO. OF WINDOWS: 1
NEAR TRACE START TIME: 200 MS
START TIME VELOCITY: 6000 M/SEC
WINDOW LENGTH: 1000 MS
WINDOW PREDICTION DISTANCE: 20 MS
OPERATOR LENGTH: 100 MS
PERCENT PRE-WHITENING: 0.1 X
10. C.D.P. SORT
11. STATIC COMPUTATIONS:
MODEL BASED REFRACTION
DRIFT AND WEATHERING CORRECTIONS
AUTOMATIC STATIC MISCORR: 47-24 MS
SHIFT LIMIT: 250 - 1000 MS
12. VELOCITY ANALYSIS (VELAN):
MUTE PATTERN:
DISTANCE (METERS): TIME (MS):
100 0
200 150
400 280
700 400
1000 500
13. STACK:
2400 X EQUAL WEIGHTS
WITH CDP CORRELATION TRIM STATICS
14. TIME VARIATION FILTER:
TIME (MS): FILTER APPLIED:
0-1000 20-80 HZ, 18/48 DB/OCTAVE
1000-2000 20-70 HZ, 18/48 DB/OCTAVE
15. REFLECTION STRENGTH GAIN:
MAXIMUM STAND OUT AFTER GAIN: 2.0
16. RMS GAIN:
100-800 MS WINDOWS

DISPLAY PARAMETERS

HORIZONTAL SCALE: 20 TRACES PER INCH
VERTICAL SCALE: 7.5 INCHES PER SECOND
PLOTING GAIN: 12 DB



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LINE NO. 8 6 0 4

PART NO. 3 OF 3

R.R. 8X

TIME (S)	WAVELENGTH (M)	VELOCITY (M/S)	WAVELENGTH (M)
0.00	1000	1000	1000
0.10	1000	1000	1000
0.20	1000	1000	1000
0.30	1000	1000	1000
0.40	1000	1000	1000
0.50	1000	1000	1000
0.60	1000	1000	1000
0.70	1000	1000	1000
0.80	1000	1000	1000
0.90	1000	1000	1000
1.00	1000	1000	1000

TIME (S)	WAVELENGTH (M)	VELOCITY (M/S)	WAVELENGTH (M)
0.00	1000	1000	1000
0.10	1000	1000	1000
0.20	1000	1000	1000
0.30	1000	1000	1000
0.40	1000	1000	1000
0.50	1000	1000	1000
0.60	1000	1000	1000
0.70	1000	1000	1000
0.80	1000	1000	1000
0.90	1000	1000	1000
1.00	1000	1000	1000

TIME (S)	WAVELENGTH (M)	VELOCITY (M/S)	WAVELENGTH (M)
0.00	1000	1000	1000
0.10	1000	1000	1000
0.20	1000	1000	1000
0.30	1000	1000	1000
0.40	1000	1000	1000
0.50	1000	1000	1000
0.60	1000	1000	1000
0.70	1000	1000	1000
0.80	1000	1000	1000
0.90	1000	1000	1000
1.00	1000	1000	1000

