

LINE 8720
V.P. 627-101
STRUCTURAL STACK
(DYNAMITE REFRACTION)
REVERSE POLARITY

100428

PETRO-CANADA INC.

PROCESSED BY WESTERN GEOPHYSICAL DIVISION OF LITTON INDUSTRIES

AREA: COLVILLE, 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
VIBRATION MODEL: 400-200
SHOOP FREQUENCY: 20-100 HZ LINEAR
SHOOP LENGTH: 6 SEC
NUMBER OF SHEEPS: 6
SHEEP TO FIRST RECEIVER: 80 M
VIB. PULSE INTERVAL: 80 M
GROUPS DROPPED IN GAP: 7

INSTRUMENTS:
AMPLIFIER: OFS V
FILTER: DUT-128 HZ
PULSEW. INTERVAL: 2 SEC
RECORD LENGTH: 9 SEC
NO. HZ NOTCH FILTER: 001
TAPE FORMS: SEC-8

RECEIVERS:
GEOPHONE TYPE: LRS-1011 IN HZ
GEOPHONES PER GROUP: 8 OVER 20 M
GROUPS RECORDED: 98
GROUP INTERVAL: 20 M
PERCENT COVERAGE: 2500 %

PROCESSING SEQUENCE AND PARAMETERS

PROCESSING SAMPLE INTERVAL: 2 MS.

1. DEMULTIPLIER:
TRACE CORRELATION
PROCESSED TO 3.0 SECONDS
2. TRACE EDIT:
REMOVAL OF ALL BUT FIRST RECORD
ELEVATION AND DISTANCE
3. GEOMETRY COMPUTATION:
60 HZ NOTCH FILTER
ATTENUATE 0.5 DB
4. F-R DOMINANT FILTER:
ATTENUATE 0.5 DB
5. PHASE COMPENSATION:
LRS-1011 10 HZ GEOPHONES
6. AMPLITUDE COMPENSATION:
TIME FACTOR ON EXPOSURE VALUE OF 2.5
7. ZERO-PHASE FREQUENCY DECONVOLUTION:
NO. OF WINDOWS: 1000 MS
START TIME VELOCITY: 6000 M/SEC
WINDOW LENGTH: 1000 MS
8. PREDICTIVE DECONVOLUTION:
PREDICT PRE-WITTING: 0.1 %
NO. OF WINDOWS: 1000 MS
START TIME VELOCITY: 6000 M/SEC
WINDOW LENGTH: 1000 MS
9. PREDICTIVE DECONVOLUTION:
PREDICT PRE-WITTING: 0.1 %
NO. OF WINDOWS: 1000 MS
START TIME VELOCITY: 6000 M/SEC
WINDOW LENGTH: 1000 MS
10. C.S.P. SORT:
SPONTANEOUS REPRODUCTION RECORDS
INTERPRETED BY TRACING LTD.
11. AUTOMATIC STEREO (MISER):
MISER: 1000 MS
12. VELOCITY ANALYSIS (VELAMP):
SOFT 1.0 M: 1000 MS
SOFT 2.0 M: 1000 MS
13. MINIMUM WIDENING CORRECTION:
WIDENING (METERS): 1000 MS
14. WIDE PATTERN:
WIDENING (METERS): 1000 MS
15. STACK:
200 1.000 WEIGHTS
WITH GAP CORRELATION TRIM STATICS
16. TIME VARIATION FILTER:
TIME (MS): 1000
20-100 HZ: 1000 MS
100-200 HZ: 1000 MS
17. REFLECTION STRENGTH GAIN:
WIDENING TIME (MS) AFTER GAIN: 2.0
18. RMS GAIN:
100000 MS WINDOWS

DISPLAY PARAMETERS

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

