

ENCLOSURE 2D

'NORTH'

LINE: 85-369

WESTERN GEOPHYSICAL LTD.
CALGARY ALBERTA
PROCESSING DATE: APRIL 1986
PROCESSED FOR: CANADIAN SUPERIOR OIL LTD.

AREA: CAMERON HILLS
LINE: 85-369
S.P.: 489 - 101
DIR.: SOUTH - NORTH
NTS GRID: 84 N-13/14
NTS GRID: 85 C-3/4
LOCATION: T126 R18-21 W5M+NWT
POLARITY: REVERSE
AFE: G3 - 634
DATUM ELEV.: 750 M
REF. VEL.: 2250 M/S

STRUCTURAL STACK

FIELD PARAMETERS

SHOT FOR: CANADIAN SUPERIOR OIL LTD.
SHOT BY: SONIX EXPLORATION LTD.
DATE: MARCH 1986

SPREAD
SHOOTING DIRECTION: S - N
FOLD: 16 M
STATION INT.: 1500
SHOT PT. INT.: 72 M
SPREAD: (TR) 1 60 61 120
DIST.: (M) 1152 -- 90 X 90 --- 1152

RECEIVER
MAKE/MODEL/TYPER: QYO / 14HZ
NUMBER PER GROUP: 9
SPACING: 2.25M
ARRAY: INLINE

SOURCE
TYPE: VIBROSEIS *
VIBRATOR MODEL: LRS-315
NUMBER OF SOURCES: 3
DRAG LENGTH: 7 MOVES OF 3.14 M
SWEEP FREQUENCY: VARI-SWEEP (8 SWEEPS)
1. 15 - 75 HZ
2. 20 - 80 HZ
3. 25 - 85 HZ
4. 27 - 87 HZ
5. 30 - 90 HZ
6. 35 - 95 HZ
7. 35 - 95 HZ
8. 40 - 100 HZ
SWEEP LENGTH: 12 SEC

INSTRUMENTS
MAKE/MODEL: FT1 - DFS-V
RECORD LENGTH: 2 SEC
SAMPLE RATE: 2 MS
FILTER: 8 - 128 HZ
NOTCH: OUT
TAPE FORMAT: SEC B
TAPE DENSITY: 1600 DPI

PROCESSED BY: WESTERN GEOPHYSICAL DIVISION OF LITTON INDUSTRIES

PROCESSING PARAMETERS

1. DEMULTIPLY
OUTPUT SAMPLE RATE: 2 MS
OUTPUT DATA LENGTH: 2 SECONDS
2. GEOMETRY
LINE, PATTERN, SOURCE, ELEVATION STATIC
3. AMPLITUDE RECOVERY
TYPE: SPHERICAL DIVERGENCE
14 HZ 60Z DAMPING
4. DEPHASING
TYPE: PREDICTIVE
PREDICTION DISTANCE: 12 MS
OPERATOR LENGTH: 60 MS
PREWHITENING: 0.1%
APPLICATION WINDOW: 0 - 2000 MS
DESIGN WINDOW (NEAR OFFSET- 90 M): 200 - 1200 MS
DESIGN WINDOW (FAR OFFSET-1152 M): 800 - 1200 MS
5. DECONVOLUTION
TYPE: PREDICTIVE
PREDICTION DISTANCE: 12 MS
OPERATOR LENGTH: 60 MS
PREWHITENING: 0.1%
APPLICATION WINDOW: 0 - 2000 MS
DESIGN WINDOW (NEAR OFFSET- 90 M): 200 - 1200 MS
DESIGN WINDOW (FAR OFFSET-1152 M): 800 - 1200 MS
6. CDP GATHERS
7. STATICS
INTERACTIVE REFRACTION ANALYSIS
DRIFT AND WEATHERING CORRECTIONS
8. VELOCITY ANALYSIS (VELAN®)
REFERENCED TO SURFACE
9. NORMAL MOVEOUT APPLICATION
REFERENCED TO SURFACE
10. AUTOMATIC SURFACE CONSISTENT STATICS (WISER®)
WINDOW: 350 - 1100 MS
MAXIMUM SHIFT: +/- 24 MS
NO. OF ITERATIONS: 3
11. RE-ITERATION OF 8 AND 9
12. REFLECTION STRENGTH GAIN
STANDOUT AFTER GAIN: 1.75
OFFSET (M): 230 310 900 1160
TIME (MS): 0 300 900 1000
13. TRACE MUTE
14. CDP STACKING
STACKING FOLD: 1500 X
WINDOW: 350 - 1100 MS
MAXIMUM SHIFT: +/- 12MS
MODEL TRACES: 5 TRACES
15. AUTOMATIC TRIM STATICS (C.D.P.)
16. FILTER APPLICATION
TYPE: BANDPASS
PASSBAND: 10/18 - 60/36
DOMAIN: FREQUENCY
APPLICATION: 0 - 2000 MS
17. GAIN (RMS)
LENGTH OF FIRST GAIN ZONE: 400 MS
LENGTH OF LONGEST GAIN ZONE: 400 MS
2000 RMS AMPLITUDE
18. DISPLAY SCALE
HORIZONTAL SCALE: 12 TRACES/INCH
VERTICAL SCALE: 7.5 INCHES/SEC
GEOSPACE PLOTTING GAIN: 1100
1 INCH = 216 METERS

G.C. GEOPHYSICIST: R.E. DIMENT



