

9229-N10-10E

LINE NB-18
S.P. 661-173
N.E. →

MIGRATED STRUCTURAL STACK
NORTHCOR ENERGY LTD
BOVIE LAKE



SEFEL GEOPHYSICAL
SEISMIC DATA PROCESSING
CALGARY, CANADA

DATE PROCESSED
JUNE 1984
Q.C. RN

FIELD RECORDING

DATE SHOT
MARCH 1984

SHOT BY
SEFEL GEOPHYSICAL LTD.
PARTY NO. 506

SOURCE TYPE
DYNAMITE

SOURCE PATTERN
SINGLE HOLE

CHARGE SIZE
2 KG AT 11 M

GEOPHONE TYPE
GEOSPAC-10 HZ

GEOPHONE PATTERN
9 AT 3 M INTERVALS

INSTRUMENTS
NOS-10
88 TRACE

FORMAL
SEG-10

RECORDING FILTER
12/18 - 125/72 HZ

RECORD LENGTH
4 SEC

SAMPLE INTERVAL
2 MS

GROUP INTERVAL
25 M

SHOT POINT INTERVAL
100 M

SPREAD GEOMETRY
1200-25-X-25-1200 M

DIGITAL PROCESSING

1 DEMULTIPLEX WITH GAIN REMOVAL
PROCESSING SAMPLE RATE
2 MS

2 INSTRUMENT PHASE COMPENSATION

3 GEOPHONE PHASE COMPENSATION

4 CDP TRACE GATHERS
1200 PERCENT

5 AUTOMATIC GAIN CURVE APPLICATION

6 SPIKING DECONVOLUTION
OPERATOR DESIGN WINDOW
MIN OFFSET
800-2300 HS
MAX OFFSET
60 HS
OPERATOR LENGTH
1 PERCENT
PREWHITENING

7 WEATHERING STATICS
DATUM ELEVATION
500 M ASL
DATUM VELOCITY
3700 M/SEC
WEATHERING VELOCITY
610 M/SEC

8 AUTOMATIC RESIDUAL STATICS
MAX CORRELATION LAG
+30 MS
WINDOW
300-1700 HS

9 VELOCITY ANALYSIS

10 NMO
AUTOMATIC RESIDUAL STATICS
MAX CORRELATION LAG
+20 MS
WINDOW
150-1100 HS

12 COMMON OFFSET STACK

13 RESIDUAL NMO

14 MUTE

15 STACK
1200 PERCENT

16 WAVE EQUATION MIGRATION
10/20 - 60/70 HZ

17 BANDPASS FILTER

18 EQUALIZATION
400-2500 HS
16 TRACES/IN
7.5 INCHES/SEC

19 FILM DISPLAY

POLARITY (X) NORMAL () REVERSE

PROCESSING PARAMETERS SELECTED BY
EMPRESS EXPLORATION CONSULTANTS

SP 534
TIME VRS
0 2000
20 2100
40 2200
60 2300
80 2400
100 2500
120 2600
140 2700
160 2800
180 2900
200 3000
220 3100
240 3200
260 3300
280 3400
300 3500
320 3600
340 3700
360 3800
380 3900
400 4000
420 4100
440 4200
460 4300
480 4400
500 4500

SP 409
TIME VRS
0 2000
20 2100
40 2200
60 2300
80 2400
100 2500
120 2600
140 2700
160 2800
180 2900
200 3000
220 3100
240 3200
260 3300
280 3400
300 3500
320 3600
340 3700
360 3800
380 3900
400 4000
420 4100
440 4200
460 4300
480 4400
500 4500

SP 319
TIME VRS
0 2000
20 2100
40 2200
60 2300
80 2400
100 2500
120 2600
140 2700
160 2800
180 2900
200 3000
220 3100
240 3200
260 3300
280 3400
300 3500
320 3600
340 3700
360 3800
380 3900
400 4000
420 4100
440 4200
460 4300
480 4400
500 4500

SP 209
TIME VRS
0 2000
20 2100
40 2200
60 2300
80 2400
100 2500
120 2600
140 2700
160 2800
180 2900
200 3000
220 3100
240 3200
260 3300
280 3400
300 3500
320 3600
340 3700
360 3800
380 3900
400 4000
420 4100
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460 4300
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500 4500



