

LINE NB-24
S.P. 841-61
S.E.

MIGRATED STRUCTURAL STACK

NORTHCOR ENERGY LTD
BOVIE LAKE



SEFEL - GEOPHYSICAL
SEISMIC DATA PROCESSING
CALGARY, CANADA

DATE PROCESSED
JUNE 1984
G.C. RN

FIELD RECORDING

DATE SHOT
FEBRUARY 1984

SHOT BY
SEFEL GEOPHYSICAL LTD.
PARTY NO. 506

SOURCE TYPE
DYNAMITE

SOURCE PATTERN
SINGLE HOLE

CHARGE SIZE
2 KG AT 12 M

GEOPHONE TYPE
GEOSPAC-10 HZ

GEOPHONE PATTERN
9 AT 3 M INTERVALS

INSTRUMENTS
MDS-10 96 TRACE

FORMAT
SEG

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

2 PROCESSING SAMPLE RATE 2 MS

3 INSTRUMENT PHASE COMPENSATION

4 GEOPHONE PHASE COMPENSATION

5 CD TRACE GATHERS

6 AUTOMATIC GAIN CURVE APPLICATION

7 AUTOMATIC DECONVOLUTION

8 OPERATOR DESIGN WINDOW

9 MIN OFFSET 150-1650 MS

10 MAX OFFSET 800-2300 MS

11 OPERATOR LENGTH 60 MS

12 PREWHITENING 1 PERCENT

13 HEATHERING STATICS

14 DATUM ELEVATION 500 M ASL

15 DATUM VELOCITY 3700 M/SEC

16 HEATHERING VELOCITY 610 M/SEC

17 AUTOMATIC RESIDUAL STATICS

18 MAX CORRELATION LAG +-30 MS

19 WINDOW 300-1700 MS

20 VELOCITY ANALYSIS

21 10 NHD

22 AUTOMATIC RESIDUAL STATICS

23 MAX CORRELATION LAG +-20 MS

24 WINDOW 100-1100 MS

25 12 COMMON OFFSET STACK

26 13 RESIDUAL NHD

27 14 MUTE

28 15 STACK 1200 PERCENT

29 16 WAVE EQUATION MIGRATION 10/20 - 60/70 HZ

30 17 BANDPASS FILTER

31 18 EQUALIZATION 400-2500 MS

32 19 FILM DISPLAY 16 TRACES/IN
7.5 INCHES/SEC

POLARITY (X) NORMAL () REVERSE

PROCESSING PARAMETERS SELECTED BY
EMPRESS EXPLORATION CONSULTANTS

SP 516.5
TIME VRS
0 2300
10 2400
30 2500
50 2600
70 2700
90 2800
110 2900
130 3000
150 3100
170 3200
190 3300
210 3400
230 3500
250 3600
270 3700
290 3800
310 3900
330 4000
350 4100
370 4200
390 4300
410 4400
430 4500
450 4600
470 4700
490 4800
510 4900
530 5000

SP 614
TIME VRS
0 2300
10 2400
30 2500
50 2600
70 2700
90 2800
110 2900
130 3000
150 3100
170 3200
190 3300
210 3400
230 3500
250 3600
270 3700
290 3800
310 3900
330 4000
350 4100
370 4200
390 4300
410 4400
430 4500
450 4600
470 4700
490 4800
510 4900
530 5000

SP 726.5
TIME VRS
0 2300
10 2400
30 2500
50 2600
70 2700
90 2800
110 2900
130 3000
150 3100
170 3200
190 3300
210 3400
230 3500
250 3600
270 3700
290 3800
310 3900
330 4000
350 4100
370 4200
390 4300
410 4400
430 4500
450 4600
470 4700
490 4800
510 4900
530 5000

SP 814
TIME VRS
0 2300
10 2400
30 2500
50 2600
70 2700
90 2800
110 2900
130 3000
150 3100
170 3200
190 3300
210 3400
230 3500
250 3600
270 3700
290 3800
310 3900
330 4000
350 4100
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390 4300
410 4400
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490 4800
510 4900
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