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LINE J-002
S.P. 101-440
NORTH

STRUCTURAL STACK

NORTHCOR ENERGY LTD.

JACKFISH



SEFEL GEOPHYSICAL
SEISMIC DATA PROCESSING
CALGARY, CANADA

DATE PROCESSED
O.C. TCS
JULY, 1984

FIELD RECORDING

DATE SHOT FEB. 1984
SHOT BY SEFEL GEOPHYSICAL LTD
PARTY NO. 508
SOURCE TYPE DYNAMITE
SOURCE PATTERN SINGLE HOLE
CHARGE SIZE 4 KG AT 5 M
GEOPHONE TYPE GEOSPAC-10 HZ
GEOPHONE PATTERN 18 AT 3 M. INT.
INSTRUMENTS VES-10
FORMAT SEG-10
DATA CHANNELS 96
RECORDING FILTER 12/18-125/72 HZ
RECORD LENGTH 5 SEC
SAMPLE INTERVAL 2 MS.
GROUP INTERVAL 25 M.
SHOT POINT INTERVAL 25 M.
SPREAD GEOMETRY 1200-25-X-25-1200

DIGITAL PROCESSING

1 DEMULTIPLEX WITH GAIN REMOVAL
PROCESSING SAMPLE RATE 2 MS
2 CDP TRACE GATHERS 4800 PERCENT
3 INSTRUMENT PHASE COMPENSATION
4 GEOPHONE PHASE COMPENSATION
5 AUTOMATIC GAIN CURVE APPLICATION
6 SPIKING DECONVOLUTION
OPERATOR DESIGN WINDOW
MIN OFFSET 350-1950 MS.
MAX OFFSET 700-1700 MS.
OPERATOR LENGTH 80 MS
PREWHITENING 1 PERCENT
7 HEATHERING STATICS
DATUM ELEVATION VARIABLE DATUM
DATUM VELOCITY 3700 M/SEC.
HEATHERING VELOCITY 610 M/SEC.
8 VELOCITY ANALYSIS
9 NMO
10 AUTOMATIC RESIDUAL STATICS
MAX CORRELATION LAG +-40 MS.
WINDOW 500-2500 MS.
11 COMMON OFFSET STACK
12 RESIDUAL NMO
13 MUTE
14 STACK 4800 PERCENT
15 TIME VARIANT FILTER 14/22-65/75 HZ
0-1000 MS 11/19-40/56 HZ
1000-4000 MS
16 EQUALIZATION
WINDOW 500-2500 MS.
17 VARIABLE TO FIXED DATUM CORRECTION
FIXED DATUM 1600 M/ASL
18 FILM DISPLAY 16 1R/IN
5 1R/SEC
POLARITY (X) NORMAL () REVERSE

PROCESSING PARAMETERS SELECTED BY
EMPRESS EXPLORATION CONSULTANTS

