

LINE NIR-36  
S.P. 101-905  
NORTH

MIGRATED STRUCTURAL STACK

NORTHCOR ENERGY LTD

ISLAND RIVER



SEFEL GEOPHYSICAL  
SEISMIC DATA PROCESSING  
CALGARY CANADA

DATE PROCESSED  
JAN-FEB, 1984  
O.C. TCS

#### FIELD RECORDING

DATE SHOT JAN-FEB, 1984  
SHOT BY SEFEL GEOPHYSICAL LTD.  
SOURCE TYPE SINGLE HOLE  
SOURCE PATTERN 2 KG AT 12 M  
CHARGE SIZE 2 KG AT 12 M  
GEOPHONE TYPE MARK-10  
GEOPHONE PATTERN 9 AT 3 M INTERVALS  
INSTRUMENTS NOS-10 96 TRACES  
FORMAT SEG8  
RECORDING FILTER 12/18 - 125/72 HZ  
RECORD LENGTH 3 SEC  
SAMPLE INTERVAL 2 MS  
GROUP INTERVAL 25 M  
SHOT POINT INTERVAL 100 M  
SPREAD GEOMETRY 1200-25-X-25-1200

#### DIGITAL PROCESSING

1 DEMULTIPLEX WITH GAIN REMOVAL  
PROCESSING SAMPLE RATE 2 MS  
2 INSTRUMENT PHASE COMPENSATION  
3 GEOPHONE PHASE COMPENSATION 1200 PERCENT  
4 CDP TRACE GATHERS  
5 AUTOMATIC GAIN CURVE APPLICATION  
6 SPIKING DECONVOLUTION  
OPERATOR DESIGN WINDOW  
MIN OFFSET 300-1300 MS  
MAX OFFSET 600-1800 MS  
OPERATOR LENGTH 60 MS  
PREWHITENING 1 PERCENT  
7 WEATHERING STATICS  
DATUM ELEVATION 700 M ASL  
DATUM VELOCITY 2750 M/SEC  
WEATHERING VELOCITY 610 M/SEC  
8 VELOCITY ANALYSIS  
9 NMO  
10 AUTOMATIC RESIDUAL STATICS  
MAX CORRELATION LAG +-30 MS  
WINDOW 400-1100 MS  
11 COMMON OFFSET STACK  
12 RESIDUAL NMO  
13 MUTE  
14 STACK  
15 WAVE EQUATION MIGRATION 1200 PERCENT  
16 BANDPASS FILTER 8/16 - 100/120 HZ  
17 EQUALIZATION 400-1400 MS  
WINDOW 16 TRACES/IN  
18 FILM DISPLAY 7.5 INCHES/SEC

NORMAL POLARITY (POSITIVE VALUE PEAK)

PROCESSING PARAMETERS SELECTED BY  
EMPRESS EXPLORATION CONSULTANTS





