

LINE NR-18  
S.P. 102-771  
S.E.

MIGRATED STRUCTURAL STACK

NORTHCOR ENERGY LTD  
ISLAND RIVER

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SEFEL GEOPHYSICAL<br>SEISMIC DATA PROCESSING<br>CALGARY, CANADA                                                                                                                                                                                                                                                                                                                                                                                                         | DATE PROCESSED<br>JAN - FEB., 1984<br>O.C. TCS |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>FIELD RECORDING</b><br>DATE SHOT JAN - FEB., 1984<br>SHOT BY SEFEL GEOPHYSICAL LTD.<br>SOURCE TYPE DYNAMITE<br>SOURCE PATTERN SINGLE HOLE<br>CHARGE SIZE 2 KG AT 12 M<br>GEOPHONE TYPE MARK-10 HZ<br>GEOPHONE PATTERN 9 AT 3 M INTERVALS<br>INSTRUMENTS KDS-10 96 TRACES<br>FORMAT SEG<br>RECORDING FILTER 12/18 - 125/72 HZ<br>RECORD LENGTH 3 SEC<br>SAMPLE INTERVAL 2 MS<br>GROUP INTERVAL 25 M<br>SHOT POINT INTERVAL 100 M<br>SPREAD GEOMETRY 1200-25-X-25-1200 |                                                |
| <b>DIGITAL PROCESSING</b><br>1 DEMULTIPLEX WITH GAIN REMOVAL<br>PROCESSING SAMPLE RATE 2 MS<br>2 INSTRUMENT PHASE COMPENSATION<br>3 GEOPHONE PHASE COMPENSATION<br>4 CDP TRACE GATHERS 1200 PERCENT<br>5 AUTOMATIC GAIN CURVE APPLICATION<br>6 SPIKING DECONVOLUTION<br>OPERATOR DESIGN WINDOW<br>MIN OFFSET 300-1300 MS<br>MAX OFFSET 800-1800 MS<br>OPERATOR LENGTH 60 MS<br>7 WEATHERING STATICS<br>PREWHITENING 1 PERCENT<br>8 WEATHERING STATICS<br>DATUM ELEVATION 700 M ASL<br>DATUM VELOCITY 2750 M/SEC<br>WEATHERING VELOCITY 610 M/SEC<br>9 VELOCITY ANALYSIS<br>10 AUTOMATIC RESIDUAL STATICS<br>MAX CORRELATION LAG +-30 MS<br>HINDON 400-1100 MS<br>11 COMMON OFFSET STACK<br>12 RESIDUAL NMO<br>13 MUTE<br>14 STACK 1200 PERCENT<br>15 WAVE EQUATION MIGRATION<br>BANDPASS FILTER 8/16 - 100/120 HZ<br>16 EQUALIZATION<br>17 HINDON 400-1400 MS<br>18 FILM DISPLAY 16 TRACES/IN<br>7.5 INCHES/SEC<br><br>NORMAL POLARITY (POSITIVE VALUE PEAK)<br><br>PROCESSING PARAMETERS SELECTED BY<br>EMPRESS EXPLORATION CONSULTANTS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                |

