RANGER OIL LTD.

9229-B59-4E
FT. LIARD

LINE NAJ-04
SPS: 1-66

PRE STACK MIGRATION

DISPLAY POLARITY
NORMAL

STATICS PARAMETERS
DATUM: 500 M REPL VEL: 4000 M/S

FIELD PARAMETERS

SHOT FOR: AMOCO - AUGUST 1968
SHOT BY: WESTERN GEOPHYSICAL LTD. - PARTY-581

INSTRUMENTS
MAKE/MODEL: RANLOG
S.R.I: 2 MS
LENGTH: 6 SEC

SOURCE
TYPE: DYNAMITE
CHARGE SIZE: 14 KG.
CHARGE DEPTH: 35 M.
NO. IN/LINE: 3

GEOPHONES
TYPE: LZ-R - 14 HZ
GROUPING:
NUMBER/GROUP: 18

SPREAD
FOLD: 6
SHOT POINT INT: 196.5 M.
GROUP INT: 65.5 M.

SPREAD CONFIGURATION
TRACES: 1-18←175-36→ TRACE 1 NORTH
1146.25←32.75←32.75→1146.25 M

PROCESSED JANUARY 1996 BY

KELMAN SEISMIC PROCESSING

PROCESSING SEQUENCE

DEMULTIPLEX:
PROCESS SAMPLE RATE: 2.0 MS
PROCESS RECORD LENGTH: 4.0 SEC

FK FILTER
TRANSPARENT: FOR CALCULATION OF DECONVOLUTION OPERATORS ONLY

DECONVOLUTION
TYPE: SURFACE CONSISTENT SPIKING
OPERATOR LENGTH: 96 MS
PREWHITENING: 0.1%
DESIGN GATE: 600 - 3000 MS AT 0SH OFFSET
1000 - 3500 MS AT 11SOH OFFSET
OFFSET RANGE: 65 - 1150 M

PARTIAL SPECTRAL BALANCING :
FREQUENCY: 0 - 128 HZ

EQUALIZATION:
DESIGN GATE: SPRE WINDOW 0S DECON

STATICS (REFRACTION)
METHOD: GLI
FREQUENCY SMOOTHING: EVERY SHOT
DATUM ELEVATION: 500 M
WEATHERING VELOCITY: 2100 M/SEC
REPLACEMENT VELOCITY: 4000 M/SEC

SORT:
TO COMMON DEPTH POINT

VELOCITY ANALYSIS:
TYPE: CONSTANT PERCENTAGE MOVEOUT

STATICS (RESIDUAL):
TYPE: AUTOMATIC SURFACE CONSISTENT
CORRELATION WINDOW: +- 50 MS
MAXIMUM SHIFT: +- 16 MS
CORRELATIONS PER TRACE 15
NUMBER OF ITERATIONS 2

VELOCITY ANALYSIS:
TYPE: CONSTANT PERCENTAGE MOVEOUT

STATICS (RESIDUAL): SECOND PASS
TYPE: AUTOMATIC SURFACE CONSISTENT
CORRELATION WINDOW: 400 - 3000 MS
MAXIMUM SHIFT: +- 16 MS
CORRELATIONS PER TRACE 15
NUMBER OF ITERATIONS 2

PRE-STK MIG. VEL. ANALYSIS:
TYPE: CONSTANT PERCENTAGE MOVEOUT

MUTE PATTERN:
DISTANCE 400 440 1500 5000 M
TIME 300 400 1200 0000 MS

EQUALIZATION:
DESIGN WINDOW 500 MS AGC

FULL PRE-STACK MIGRATION:
TYPE KIRCHHOFF SUMMATION
DATUM REFERENCED, TO PLOTTED WEATHERING REPLACED SURFACE.
SEPARATELY BY SHOT AND RECEIVER

STACK:
SPIKE SUPRESSION 3(1 THRESHOLD
FOLD 6

FILTER:
FREQUENCY 10/15 - 58/68 HZ

EQUALIZATION:
DESIGN WINDOW 600 MS AGC

FINAL DISPLAY:

1KM BLIP INCREMENT

DISPLAY PARAMETERS
HORIZONTAL: 12.2 TRACES/INCH VERTICAL: 5 INCHES/SECOND
400 TI/INCH

2060 Walkley Rd.
Ottawa, Ont.
Canada K1G 3P5
Tel (613) 731-9571
Fax. (613) 731-0453

PROJ. NO. 9229-B59-4E

LINE NO. NAJ-04

PART NO. 1 OF 1

R.R. 8X