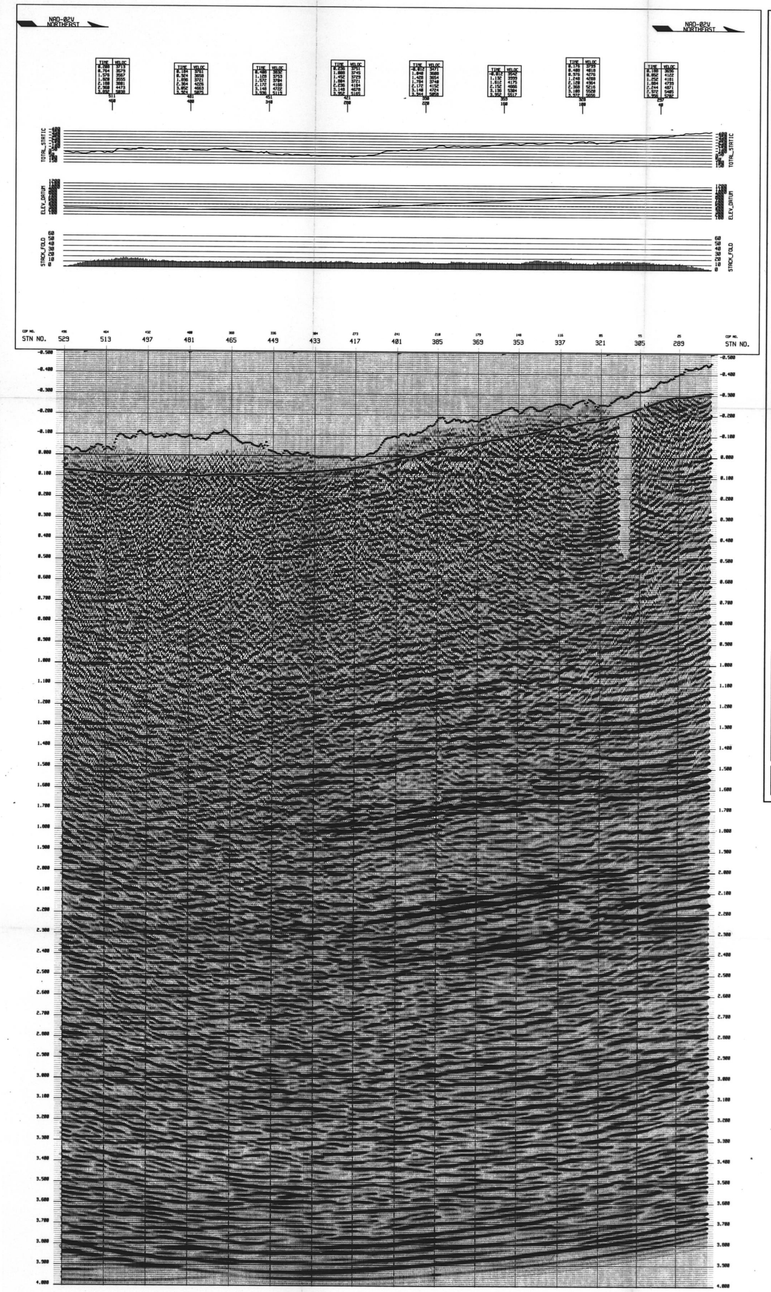

RANGER OIL LTD.

9229-B59-4E

FT. LIARD

LINE NAD-02W
SPS: 277-529

PRE STACK MIGRATION

DISPLAY POLARITY
NORMAL

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

FIELD PARAMETERS

SHOT FOR: NORTHCOR - OCTOBER 1993
SHOT BY: SEISL GEOPHYSICAL LTD. FIRST-529

INSTRUMENTS
MAKE/MODEL: SERCEL 388 HR
S.R.:2 X TD - LENGTH: 8 SEC
FILTER: 10 HZ - NOTCH OUT
FORMAT: SEG-D

SOURCE
TYPE: DYNAMITE
CHARGE SIZE: 50 KG. VARIES
CHARGE DEPTH: 10 M.
NO. SHLOHOLES:

GEOPHONES
TYPE: MARK L-15: 14 HZ
DAMPING: 0.7
GEOPHONE/GROUP: 18
GROUP SPACING: 50 M

SPREAD
FOLD: 24
SHOT POINT INT: 100 M.
GROUP INT: 25 M.

SPREAD CONFIGURATION
TRACES: 2-48-4-49-50 TRACE 1 NORTHEAST
1200-25-0-25-1200 M

PROCESSED APRIL 1996 BY

KELMAN SEISMIC PROCESSING

PROCESSING SEQUENCE

DEMULTIPLEX
PROCESS SAMPLE RATE: 2.0 MS
PROCESS RECORD LENGTH: 4.0 SEC
AMPLITUDE RECOVERY
TYPE: M(T)*(MAX(X0)*(MAX(T)) X=1 X=2 X=2
TRACE EDITING
TRACE COMPENSATION
TYPE: INSTRUMENT AND GEOPHONE
DECONVOLUTION
TYPE: SURFACE CONSISTENT SPIKING
OPERATOR LENGTH: 160 MS
PREWHITENING: 1.0%
DESIGN GATE: 1000 - 3000 MS AT .0DA OFFSET
1000 - 3000 MS AT 1000M OFFSET
OFFSET RANGE: 0M - 1200 M
PARTIAL SPECTRAL BALANCING
FREQUENCY: 8 - 120 HZ
EQUALIZATION
DESIGN WINDOW: SAME WINDOW AS DESIGN
STATICS (REFRACTION)
METHOD: GLI
REFRACTOR SPACING: 100 M SHOT
GROUP ELEVATION: DATUM
WEATHERING VELOCITY: 2500 M/SEC
SUBSURFACE VELOCITY: 4000 M/SEC
SORT
TO COMMON DEPTH POINT
VELOCITY ANALYSIS
TYPE: CONSTANT PERCENTAGE MOVEOUT
STATICS (RESIDUAL)
TYPE: AUTOMATIC SURFACE CONSISTENT
CORRELATION WINDOW: 500 - 2000 MS
MAXIMUM SHIFT: +/- 50 MS
CORRELATIONS PER TRACE: 3
NUMBER OF ITERATIONS: 2
VELOCITY ANALYSIS
TYPE: CONSTANT PERCENTAGE MOVEOUT
STATICS (RESIDUAL)-SECOND PASS
TYPE: AUTOMATIC SURFACE CONSISTENT
CORRELATION WINDOW: 500 - 2000 MS
MAXIMUM SHIFT: +/- 16 MS
CORRELATIONS PER TRACE: 3
NUMBER OF ITERATIONS: 2
PRE-STK MIG. VEL. ANALYSIS
TYPE: CONSTANT PERCENTAGE MOVEOUT
MUTE PATTERN
TYPE(MM): -400 440 1300 5000 M.
TYPE(MS): -400 440 1000 2000 MS
EQUALIZATION
DESIGN WINDOW: 5000 MS MAX
FULL PRE-STACK MIGRATION
TYPE: 3D TIME - DEPTH SUPERSTION
INPUT REFERENCED, TO PLOTTED (ANTERIOR) REPLACED SURFACE-SPECIFICALLY BY SHOT AND RECEIVER
STACK
STACK IMPRESSION: 3:1 THRESHOLD
FOLD: 12
FILTER
FREQUENCY: 10/15 - 45/55 HZ
EQUALIZATION
DESIGN WINDOW: 5000 MS MAX
FINAL DISPLAY

1KM BLIP INCREMENT

DISPLAY PARAMETERS
HORIZONTAL: 30.8 TRACES/INCH HORIZONTAL: 5 INCHES/SECOND
400 M/INCH 400 M/INCH

TRIATHLON PROJ. NO. 9229 B59 4E LINE NO. NAD-2W PART NO. 1 OF 1 R.R. 10X