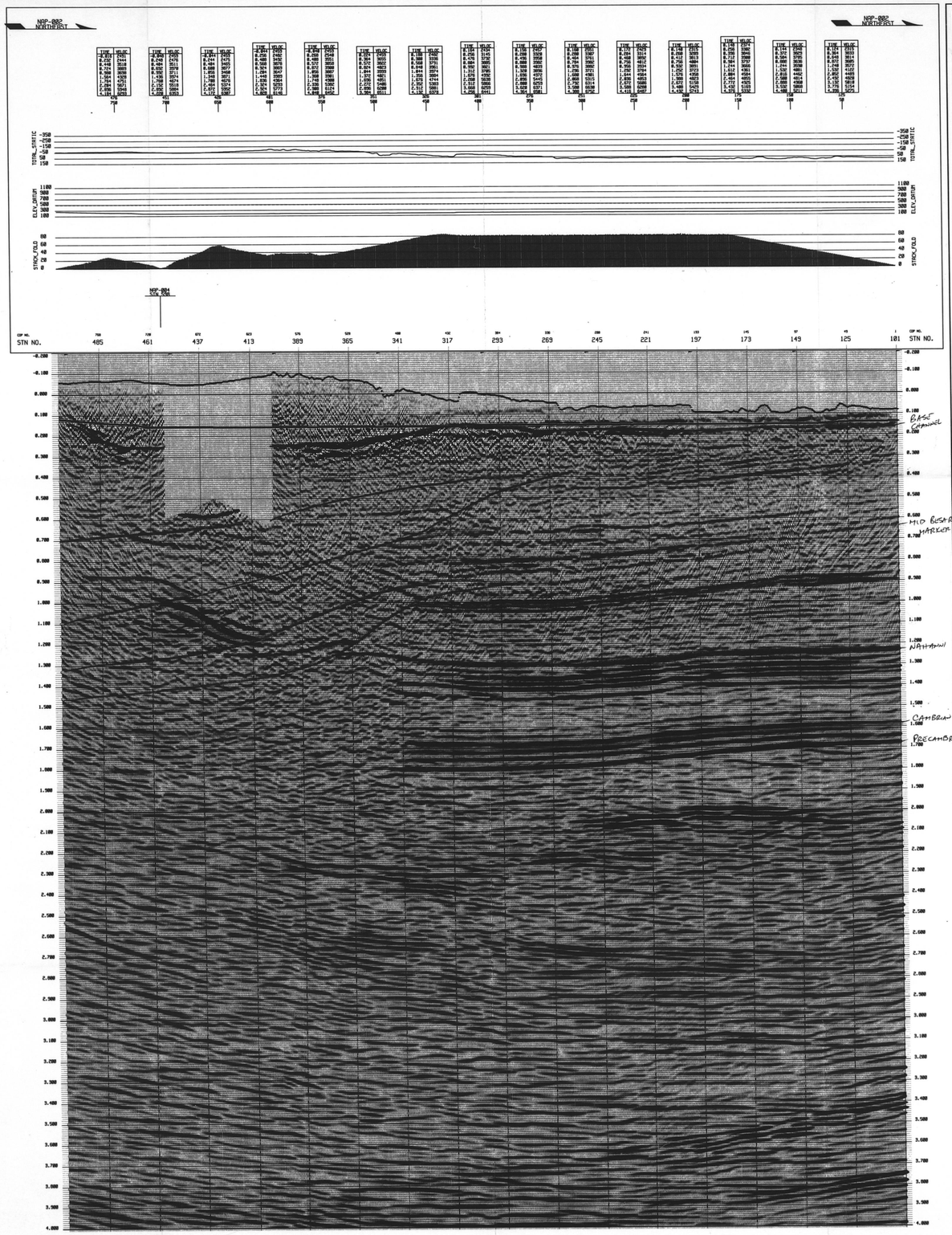

RANGER OIL LTD.

9229-B59-5E

FT. LIARD

LINE NAP-002
SPS: 101 - 505

POST STACK MIGRATION

DISPLAY POLARITY
NORMAL

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

FIELD PARAMETERS

SHOT FOR: RANGER OIL LTD. : APRIL 1997
SHOT BY: GECO-PRAKLA : PRETT-1254

INSTRUMENTS
MAKE/MODEL: I/O II
S.R.: 2 MS LENGTH: 5 SEC
FILTER: 3-135 NOTCH OUT
FORMAT: SEG-D

GEOPHONES
TYPE: GYO GS20DX- 10 HZ
DAMPING: 0.7
NUMBER/GROUP: 9
GROUP LATH: 20 M

SOURCE
TYPE : VIBROSEIS
MODEL : 4 X 4
SWEEP : 10-100 HZ
LENGTH : 10 SEC

SPREAD
FOLD : 6000 PCT
S.P. INT : 40 M
GRP. INT : 20 M

SPREAD CONFIGURATION
TRACES: 1----------320 TRACE 1 NORTHERST
3220.0----------0 3220.0 M

PROCESSED JULY 1997 BY

KELMAN SEISMIC PROCESSING

PROCESSING SEQUENCE

DEMULTIPLEX
PROCESS SAMPLE RATE: 2.0 MS
PROCESS RECORD LENGTH: 5.0 SEC

AMPLITUDE RECOVERY
EXPONENTIAL GAIN CURVE: K(TIME)K(X)K(DEPTH)) K=1 K=0 K=2

TRACE EDITING

PHASE COMPENSATION
TYPE: GEOPHONE

VIBROSEIS PHASE COMPENSATION:
METHOD: CLAUDER WAVELET TO MINIMUM PHASE

DECONVOLUTION
TYPE: SURFACE CONSISTENT SPIKING
OPERATOR LENGTH: 88 MS
PREWHITENING: 1.0%
DESIGN GATE: 1400 - 2000 MS AT 2DM OFFSET
1400 - 2300 MS AT 3000M OFFSET
OFFSET RANGE: 600 - 1500 M

PARTIAL SPECTRAL BALANCING
FREQUENCY: 10 - 100 HZ

EQUALIZATION
DESIGN GATE: SAME WINDOW AS DECON

STATICS (REFRACTION)
TYPE: GLI
FREQUENCY SPACING: EVERY SHOT
DATUM ELEVATION: 500 M
WEATHERING VELOCITY: 2400 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: 300 - 3000 MS
MAXIMUM SHIFT: +/- 32 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: 300 - 3000 MS
MAXIMUM SHIFT: +/- 16 MS
CORRELATIONS PER TRACE: 15
NUMBER OF ITERATIONS: 2

NORMAL MOVEOUT CORRECTION:
DATUM REFERENCED, TO PLOTTED WEATHERING REPLACED SURFACE, SEPARATELY AT SHOT AND RECEIVER

MUTE PATTERN
DISTANCE: 440 640 3020 M
TIME: -300 500 800 MS

STACK
SPIKE SUPPRESSION: 3:1 THRESHOLD
FOLD: 80

MIGRATION
TYPE: KIRCHHOFF SUPERITION
VELS: 100 PCT SMOOTHED STACKING

FILTER
FREQUENCY: 10/15 - 45/55 HZ

EQUALIZATION
DESIGN WINDOW: 600 MS AGC

FINAL DISPLAY

1KM BLIP INCREMENT

DISPLAY PARAMETERS
HORIZONTAL: 48 TRACES/INCH VERTICAL: 5 INCHES/SECOND
480 M/INCH 480 M/INCH

TRIATHLON GEOPHYSICAL SERVICES INC.

PROJ. NO. 9229 B59 5E

LINE NO. NAP-2

PART NO. 1 OF 1

R.R. BX