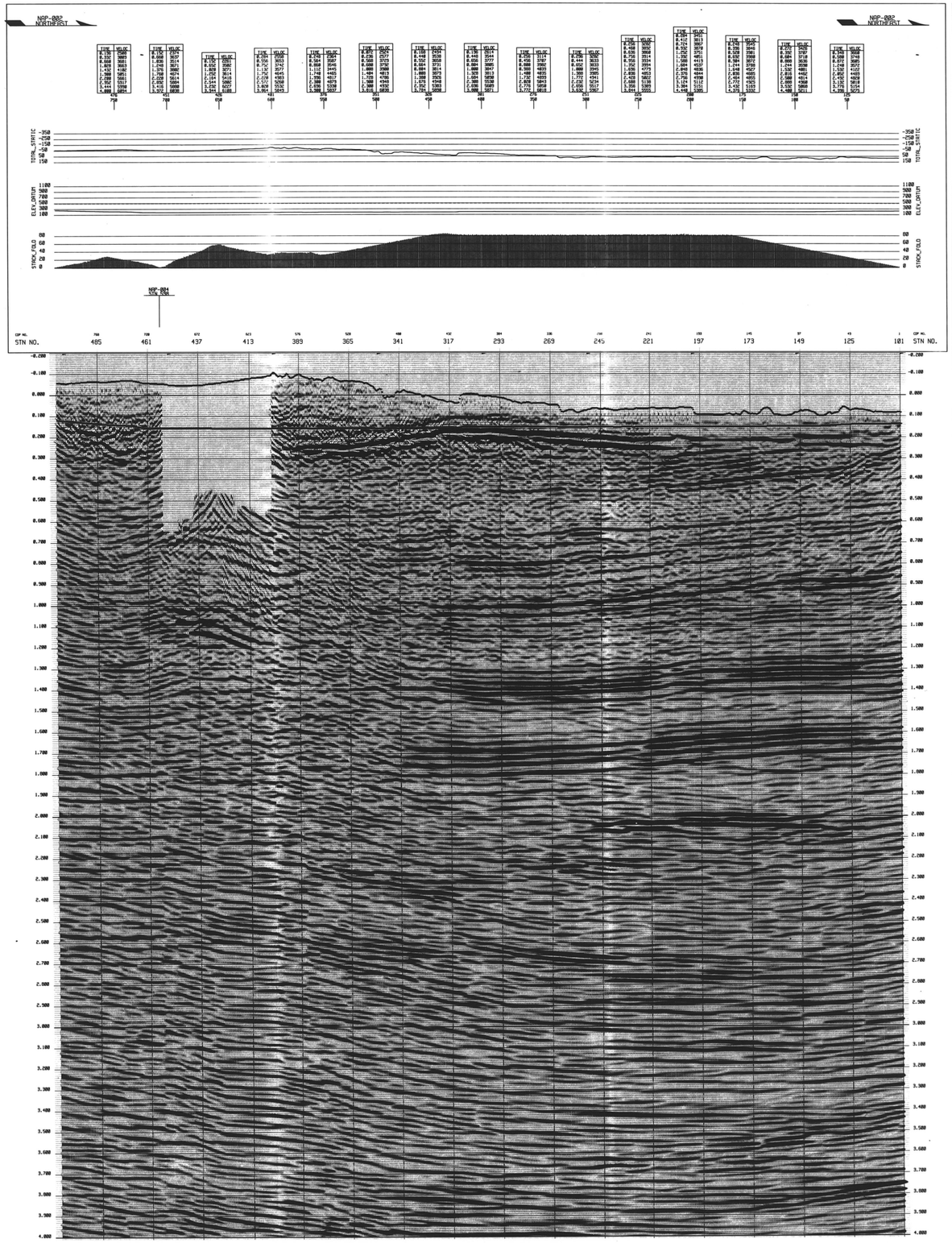

9229-B59-5E

RANGER OIL LTD.

FT. LIARD

LINE NAP-002
SPS: 101 - 505

PRE 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 , PARTY-1264

INSTRUMENTS
NAME/MODEL: I/O II
SAMPLE RATE: 2 MSEC LENGTH: 5 SEC
FILTER: 5-125 NOTCH OUT
FORMAT: SEG-D

GEOPHONES
TYPE: MOD. GS20DX, 10 HZ
NATURAL FREQ: 10 HZ
NUMBER/GROUP: 5
GROUP LENG: 20 M

SOURCE
TYPE : VIBROSEIS
MODEL : 4 X 4
SWEEP : 10-100 HZ
LENGTH : 12 SEC

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

SPREAD CONFIGURATION
TRACES: 1----------323 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: RE(IPWER)X(EXP(AT)) X=1 A=0 B=2

TRACE EDITING

PHASE COMPENSATION
TYPE: GEOPHONE

VIBROSEIS PHASE COMPENSATION:
METHOD: CLUMPER WAVELET TO MINIMUM PHASE

DECONVOLUTION
TYPE: SURFACE CONSISTENT SPIKING
OPERATOR LENGTH: 88 MS
PREWHITENING: 0.1 %
DESIGN GATE: 800 - 2300 MS AT 0M OFFSET
1400 - 2300 MS AT 3020M OFFSET
OFFSET RANGE: 0000 - 1500 M

PARTIAL SPECTRAL BALANCING
FREQUENCY: 18 - 100 HZ

EQUALIZATION
DESIGN GATE: SAME WINDOW AS DECON

STATICS (REFRACTION)
METHOD: GLI
FREQUENCY SPACING: EVERY SHOT
DATUM ELEVATION: 500 M
WEATHERING VELOCITY: 762 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

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

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

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

STACK
SPIKE SUPRESSION: 3:1 THRESHOLD
FOLD: 60

FILTER
FREQUENCY: 18/15 - 45/55 HZ

EQUALIZATION
DESIGN WINDOW: 600 MS AGC

FINAL DISPLAY

1KM BLIP INCREMENT

DISPLAY PARAMETERS
HORIZONTAL: 40 TRACES/INCH VERTICAL: 5 INCHES/SECOND
400 M/INCH 400 M/INCH

TRIATHLON

PROJ. NO. 9229 B59 5E

LINE NO. NAP-2

PART NO. 1 OF 1

R.R. 8X