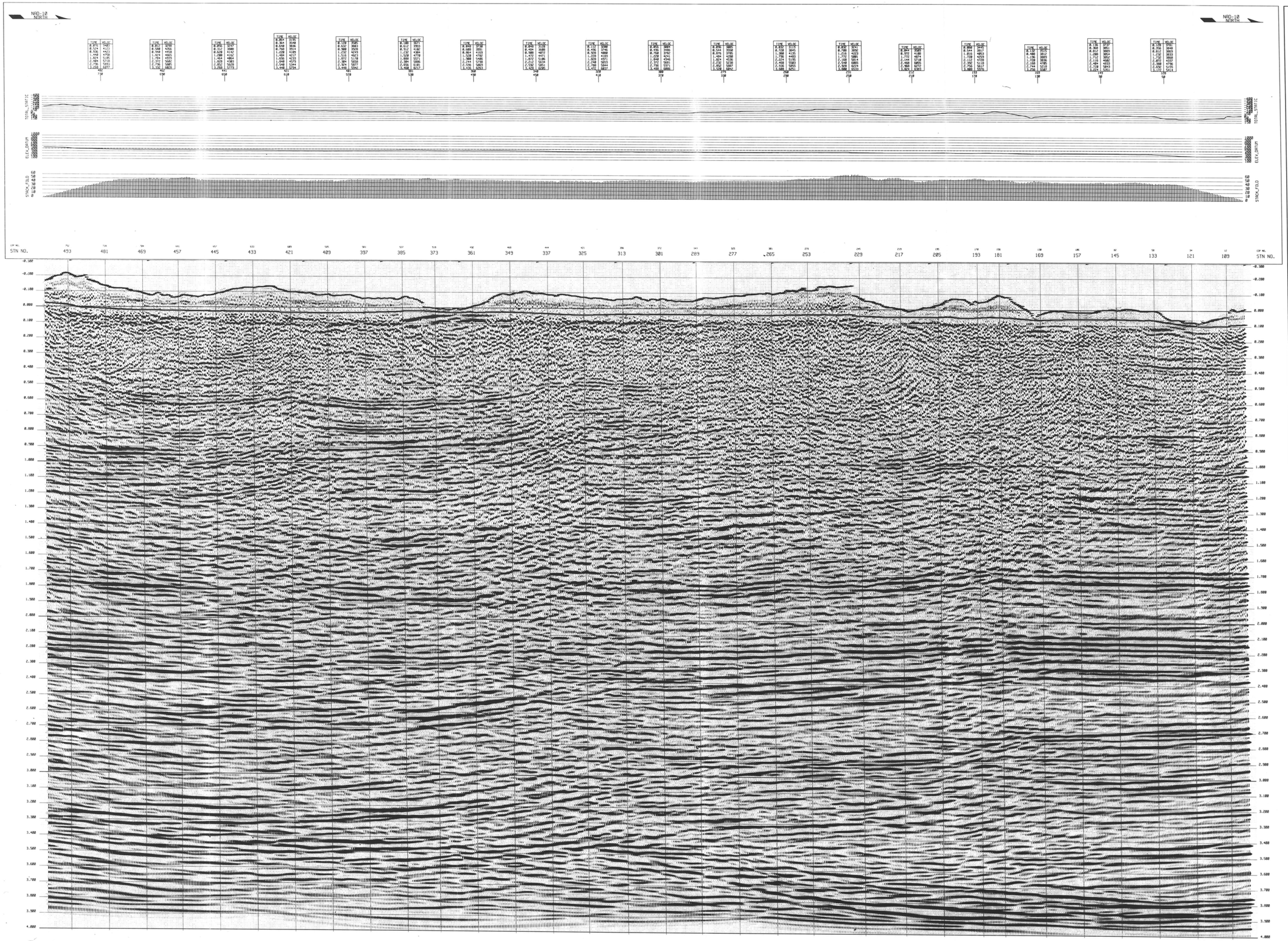

RANGER OIL LTD.

9229-B59-4E

FT. LIARD

LINE NAD-10
SPS: 101-501

PRE STACK MIGRATION

DISPLAY POLARITY
NORMAL

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

FIELD PARAMETERS

SHOT FOR: NORTHCOR , MARCH 1984
SHOT BY: SEFEL GEOPHYSICAL LTD. , PARTY-501

INSTRUMENTS
NAME/MODEL: MDS 10
S.R.: 2 MS LENGTH: 6 SEC
FILTER: 12-125 NOTCH OUT
FORMAT: SEG-B

GEOPHONES
TYPE: MARK L-15: 10 HZ
DAMPING: 0.7
NUMBER/GROUP: 10
GROUP LETH: 51 M

SOURCE
TYPE: DYNAMITE
CHARGE SIZE: 10 KG.
CHARGE DEPTH: 10 M.
NO. INLINE: 1

SPREAD
FOLD: 48
SHOT POINT INT: 40 M.
GROUP INT: 40 M.

SPREAD CONFIGURATION
TRACES: 1-48-+-49-96 TRACE 1 NORTH
1920-48-+-48-1920 M

PROCESSED JANUARY 1996 BY

KELMAN SEISMIC PROCESSING

PROCESSING SEQUENCE

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

AMPLITUDE RECOVERY:
EXPONENTIAL GAIN CURVE: A(T)*SQRT(A(0)/A(T)) A=1 A=@ A=2

TRACE EDITING

PHASE COMPENSATION
TYPE: INSTRUMENT AND GEOPHONE

FK FILTER
TRANSPARENT: FOR CALCULATION OF DECONVOLUTION OPERATORS ONLY

DECONVOLUTION
TYPE: SURFACE CONSISTENT SPIKING
OPERATOR LENGTH: 80 MS
PREWHITENING: 1%
DESIGN GATE: 1500 - 3000 MS RT 40M OFFSET
1500 - 3000 MS RT 1920M OFFSET
OFFSET RANGE: 40 - 1920 M

PARTIAL SPECTRAL BALANCING :
FREQUENCY: 8 - 120 HZ

EQUALIZATION:
DESIGN GATE: SAME WINDOW AS DECON

STATICS (REFRACTION)
METHOD: GLI
FREQUENCY SPACING: EVERY SHOT
DATUM ELEVATION: 500 M
WEATHERING VELOCITY: 2562 M/SEC
REPLACEMENT VELOCITY: 4000 M/SEC

SORT:
TO COMMON DEPTH POINT

VELOCITY ANALYSIS:
TYPE: CONSTANT PERCENTAGE REMOVEUT

STATICS (RESIDUAL):
TYPE: AUTOMATIC SURFACE CONSISTENT
CORRELATION WINDOW: 400 - 3000 MS
MAXIMUM SHIFT: +/- 30 MS
CORRELATIONS PER TRACE: 15
NUMBER OF ITERATIONS: 2

VELOCITY ANALYSIS:
TYPE: CONSTANT PERCENTAGE REMOVEUT

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 REMOVEUT

MUTE PATTERN:
DISTANCE: -480 440 1520 3880 M
TIME: -300 400 1200 2080 MS

EQUALIZATION:
DESIGN WINDOW: 500 MS AGC

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

STACK:
SPIKE SUPRESSION: 3:1 THRESHOLD
FOLD: 48

FILTER:
FREQUENCY: 10/15 - 58/68 HZ

EQUALIZATION:
DESIGN WINDOW: 600 MS AGC

FINAL DISPLAY:

1KM BLIP INCREMENENT

DISPLAY PARAMETERS
HORIZONTAL: 20.0 TRACES/INCH 400 M/INCH
VERTICAL: 5 INCHES/SECOND 400 M/INCH

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PROJ. NO. 9229-B59-4E

LINE NO. NAD-10

PART NO. 1 OF 1

R.R. 8X