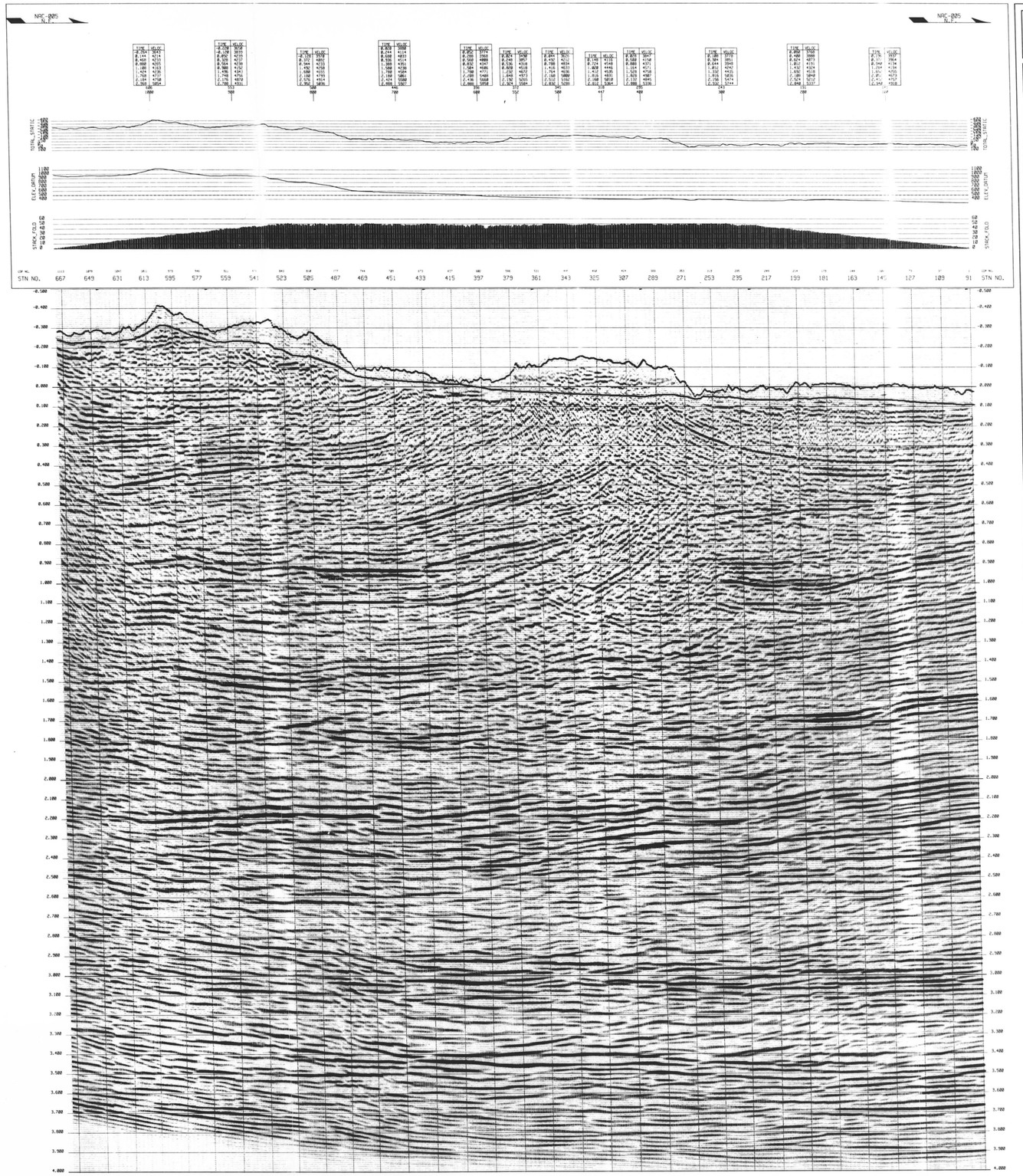

RANGER OIL LTD.

9229-B59-3E

FT. LIARD

LINE NAC-005
SPS: 105-647

PRE STACK MIGRATION

DISPLAY POLARITY
NORMAL

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

FIELD PARAMETERS

SHOT FOR: RANGER OIL LTD. SEPTEMBER 1995
SHOT BY: SCHLUMBERGER GECO-PRAKLA. PART#-1267

INSTRUMENTS
MAKE/MODEL: I/O SYSTEM 2
S.R.I 2 MS LENGTH: 16 SEC
FILTER: 3/16-135 NOTCH OUT
PART#: SEG-D

GEOPHONES
TYPE: GTC 20 Dx. 10 HZ
GRPTYPE: X,Y
NUMBER/GROUP: 12
GROUP LENH: 15 M

SOURCE
TYPE: DYNAMITE
CHARGE SIZE: 20 KG.
CHARGE DEPTH: 20 M.
NO. INLINE: 1

SPREAD
FOLD: 18
SHOT POINT INT: 90 M.
GROUP INT: 15 M.

SPREAD CONFIGURATION
TRACES: 1-300 +-301-600 TRACE 1 N.E.
#587.5-22.5 +-22.5-#587.5 M.

PROCESSED NOVEMBER 1995 BY

KELMAN SEISMIC PROCESSING

PROCESSING SEQUENCE

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

AMPLITUDE RECOVERY:
EXPONENTIAL GAIN CURVE: K(T)PUR(N)X(EXP(AT)) K=1 A=0 N=2

TRACE EDITING
TYPE: INSTRUMENT AND GEOPHONE

PHASE COMPENSATION
TYPE:

FK FILTER
TRANSFORMS: FOR CALCULATION OF DECONVOLUTION OPERATORS ONLY

DECONVOLUTION
TYPE: SURFACE CONSISTENT SPIKING
OPERATOR LENGTH: 88 MS
PREWHITENING: 1%
DESIGN GATE: 700 - 2500 MS AT - 2525 OFFSET
1000 - 2500 MS AT 3000M OFFSET
OFFSET RANGE: 25 - 3500 M

PARTIAL SPECTRAL BALANCING :
FREQUENCY: 8 - 108 HZ

EQUALIZATION:
DESIGN GATE: SHPE WINDOW WS DECON

STATICS (REFRACTION)
METHOD: GLI
FREQUENCY SPACING: EVERY SHOT
DATUM ELEVATION: 500 M
DATUM VELOCITY: 4000 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: 400 - 2200 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: 400 - 2200 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: 300 350 1500 5000 M
TIME: 5000 0 300 1500 MS

EQUALIZATION:
DESIGN WINDOW: 500 MS AGC

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

STACK:
SPIKE SUPRESSION: 3:1 THRESHOLD
FOLD: 54

FILTER:
FREQUENCY: 8/13 - 50/58 HZ

EQUALIZATION:
DESIGN WINDOW: 600 MS AGC

FINAL DISPLAY:

1KM BLIP INCREMENT

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

terra
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K1G 3P7
Tel: (613) 731-9571
Fax: (613) 731-0453

PROJ. NO. 9229-B59-3E

LINE NO. NAC-005

PART NO. 1 OF 1

R.R. 8X