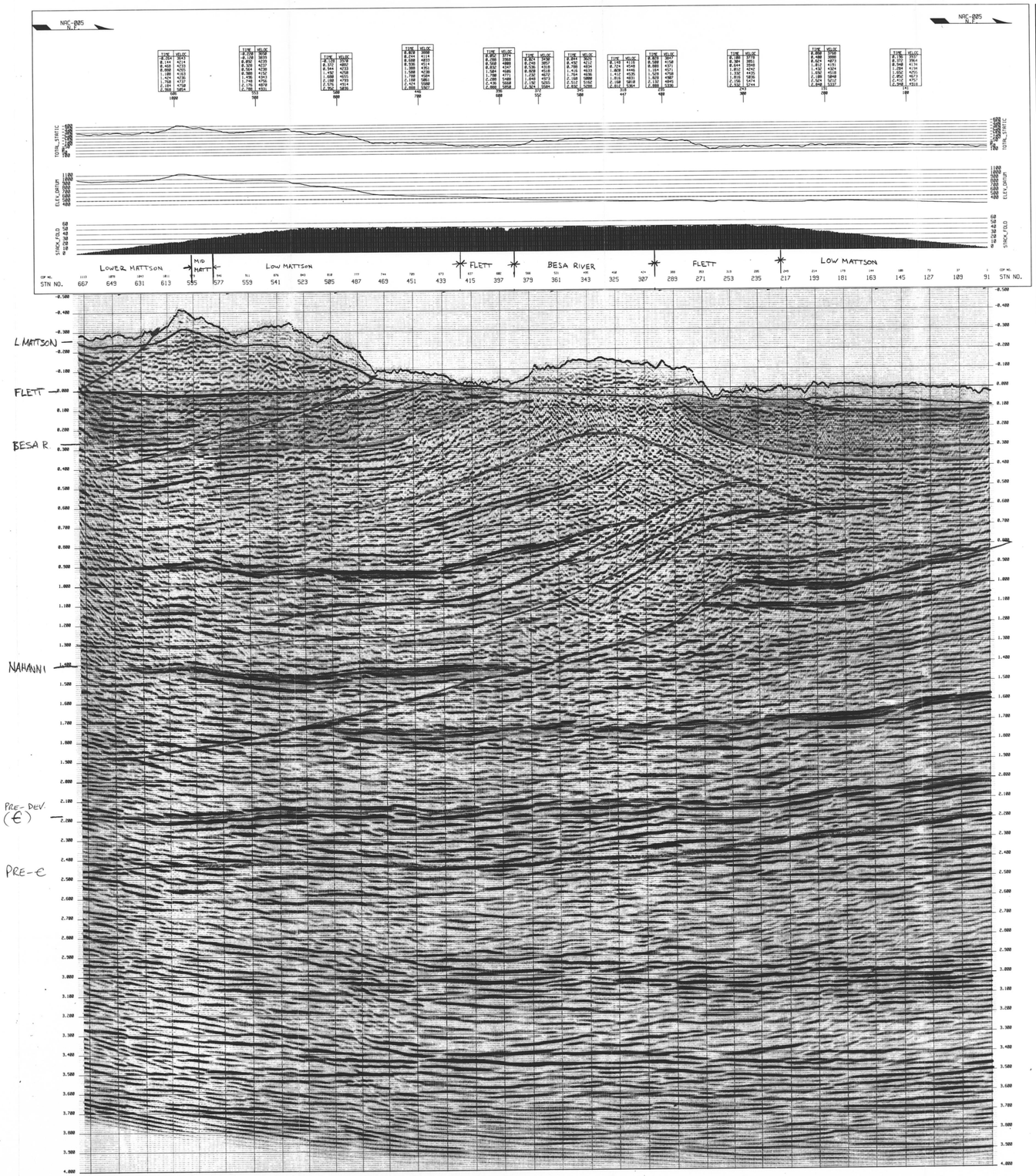
INTERPRETED SECTION

JRS - RANGER OIL OCT/96




RANGER OIL LTD.

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, PARTY-1267

INSTRUMENTS
MAKE/MODEL: I/O SYSTEM 2
RECORD LENGTH: 16 SEC
FILTER: 3/12-135 NOTCH OUT
FORMAT: SEG-D

GEOPHONES
TYPE: OYO DX DX. 18 HZ
IMPEDANCE: 8.2
NUMBER/GROUP: 12
GROUP LEITH: 15 M

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

SPREAD
FOLD: 58
SHOT POINT INT: 50 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: KE(T)PUREX(KE(EXPERT)) K=1 A=0 N=2

TRACE EDITING

PHASE COMPENSATION
TYPE: INSTRUMENT AND GEOPHONE

FK FILTER
TRANSFORMS: FOR CALCULATION OF DECONVOLUTION OPERATORS ONLY

DECONVOLUTION
TYPE: SURFACE CONSISTENT SPIKING
OPERATOR LENGTH: 80 MS
WHITENING: 1%
DESIGN GATE: 700 - 2500 MS AT 2500 OFFSET
1000 - 2500 MS AT 30000 OFFSET
OFFSET RANGE: 0 - 3500 M

PARTIAL SPECTRAL BALANCING I
FREQUENCY: 8 - 100 HZ

EQUALIZATION:
DESIGN GATE: SAME WINDOW AS DECON

STATICS (REFRACTION)
METHOD: GLI
FREQUENCY SPACING: EVERY SHOT
DATUM ELEVATION: 500 M
WEATHERING VELOCITY: 2000 M/SEC
REPLACEMENT VELOCITY: 4000 M/SEC

SORT:
TO COMMON DEPTH POINT

VELOCITY ANALYSIS:
TYPE: CONSTANT PERCENTAGE REMOVOUT

STATICS (RESIDUAL):
TYPE: AUTOSTATIC SURFACE CONSISTENT
CORRELATION WINDOW: 400 - 2200 MS
MAXIMUM SHIFT: +/- 32 MS
CORRELATIONS PER TRACE: 15
NUMBER OF ITERATIONS: 2

VELOCITY ANALYSIS:
TYPE: CONSTANT PERCENTAGE REMOVOUT

STATICS (RESIDUAL): SECOND PASS
TYPE: AUTOSTATIC 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 REMOVOUT

MUTE PATTERN:
DISTANCE: 300 350 1500 5000 M
TIME: -500 0 300 1500 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 SUPPRESSION: 3:1 THRESHOLD
FOLD: 58

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

EQUALIZATION:
DESIGN WINDOW: 600 MS AGC

FINAL DISPLAY:

1KM BLIP INCREMENT

DISPLAY PARAMETERS
HORIZONTAL: 48 TRACES/INCH VERTICAL: 5 INCHES/SECOND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PROJ. NO. 9 2 2 9 - B 5 9 - 2 E

LINE NO. N A C - 0 0 5

PART NO. 1 OF 1

R.R. 8X