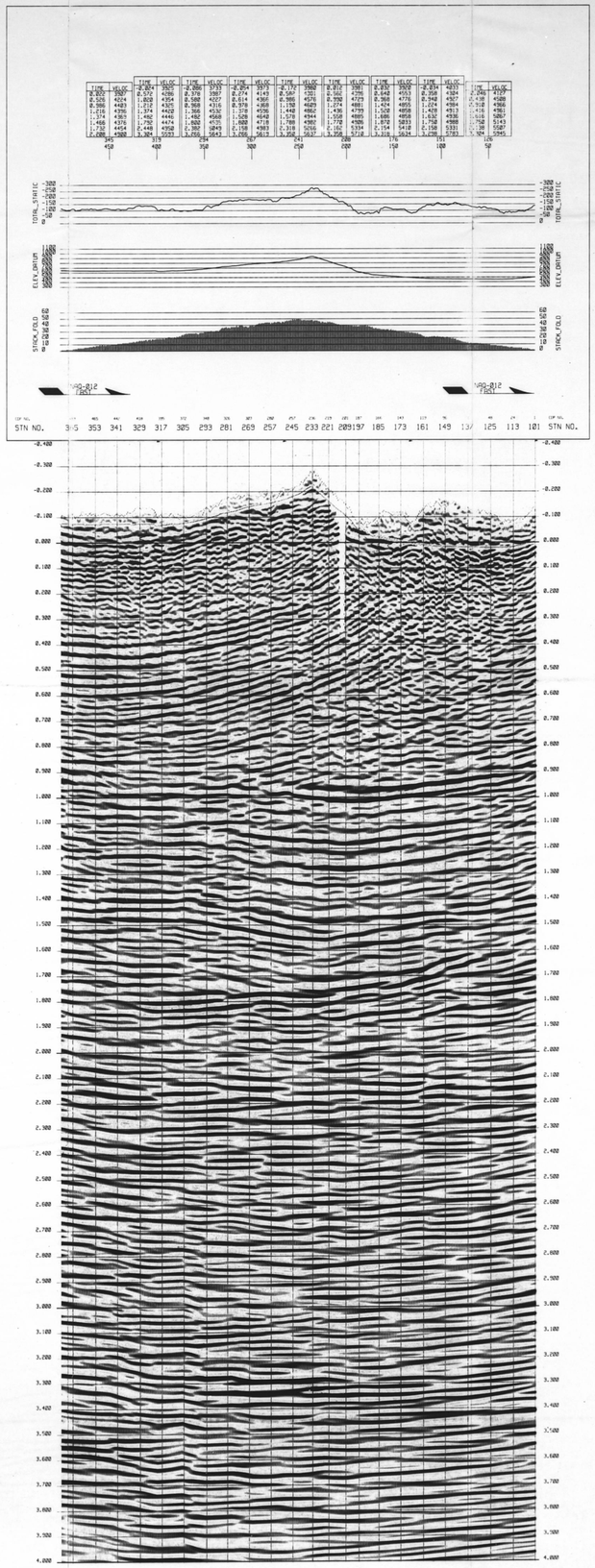

RANGER
OIL
LTD.

9229-B59-10E

FORT LIARD

LINE: NAQ-012
SPS: 101-371

PRE-STACK
MIGRATION

REVERSE POLARITY

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

FIELD PARAMETERS

SHOT FOR : RANGER OIL LTD. DEC 1990
SHOT BY : GECO-PRAKLA PTY # 1263

INSTRUMENTS
MAKE/MODEL: I/O SYSTEM TWO
S.R. : 2 MS
LENGTH : 6.5SEC
FILTER : 8-12-3/4 NYQ MIN
NOTCH : OUT
FORMAT : SEG-D

GEOPHONES
TYPE :
FREQUENCY :
DAMPING :
SPRING/GROUP : 6
SPACING : 3 M
GROUP LENGTH: 15 M

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

SPREAD
FOLD : 2000 PCT
S.P. INT : 50 M
GRP. INT : 15 M

CONFIGURATION
ENTIRE LINE LIVE- SHOTS ROLL THROUGH
TRACES 1--->--271 TR 1 EAST

PROCESSED DECEMBER 1990 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(SPUREN)E(EMPERAT)) K=1 A=0 N=2

TRACE EDITING:

PHASE COMPENSATION:
TYPE GEOPHONE AND INSTRUMENT

INFILTER
TYPE TRANSPARENT- FOR CALCULATION OF DECONVOLUTION OPERATORS ONLY

DECONVOLUTION:
TYPE SURFACE CONSISTENT SPIKING
OPERATOR LENGTH 80 MS
PREWHITENING 1 PCT
DESIGN GATE 800-3000 MS AT 0000M OFFSET
1500-3000 MS AT 4000M OFFSET

SPECTRAL BALANCING:
FREQUENCY 8 - 80 HZ

EQUALIZATION:
DESIGN GATE SAME WINDOW AS DECON

STATICS (REFRACTION)
METHOD GENERALIZED LINEAR INVERSION
FREQUENCY SPACING EVERY SHOT
DATUM ELEVATION 500 M
WEATHERING VELOCITY 750 M/SEC
REPLACEMENT VELOCITY 4000 M/SEC

SORT:
TO EQUAL CDP INTERVAL

VELOCITY ANALYSIS:
TYPE: CONSTANT PERCENTAGE MOVEOUT

STATICS (RESIDUAL): 1ST PASS
TYPE AUTOMATIC SURFACE CONSISTENT
CORRELATION WINDOW 400 - 3600 MS
MAXIMUM SHIFT +/- 32 MS
CORRELATIONS PER TRACE 15
NUMBER OF ITERATIONS 2

VELOCITY ANALYSIS:
TYPE: CONSTANT PERCENTAGE MOVEOUT

STATICS (RESIDUAL): 2ND PASS
TYPE AUTOMATIC SURFACE CONSISTENT
CORRELATION WINDOW 400 - 3600 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 400 420 3000 4000 M
TIME -600 500 1200 1500 MS

EQUALIZATION:
DESIGN WINDOW 500 MS AGC

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 2000 PCT.

OUTPUT STACKED DATA:
FORMAT SEGY TO CLIENT REEL

FILTER:
FREQUENCY 10/15-50/60 HZ

EQUALIZATION:
DESIGN WINDOW 500 MS AGC

OUTPUT STACKED DATA:
FORMAT SEGY TO CLIENT REEL

FINAL DISPLAY:

1 KM BLIP INCREMENT

DISPLAY PARAMETERS
HORIZONTAL: 53.3 TPI VERTICAL: 5 IPS
400 M/IN

TRIATHLON PROJ. NO. 9220 B 95 / OE
LINE NO. NAQ-11
PART NO. 1 OF 1 R.R. 8X