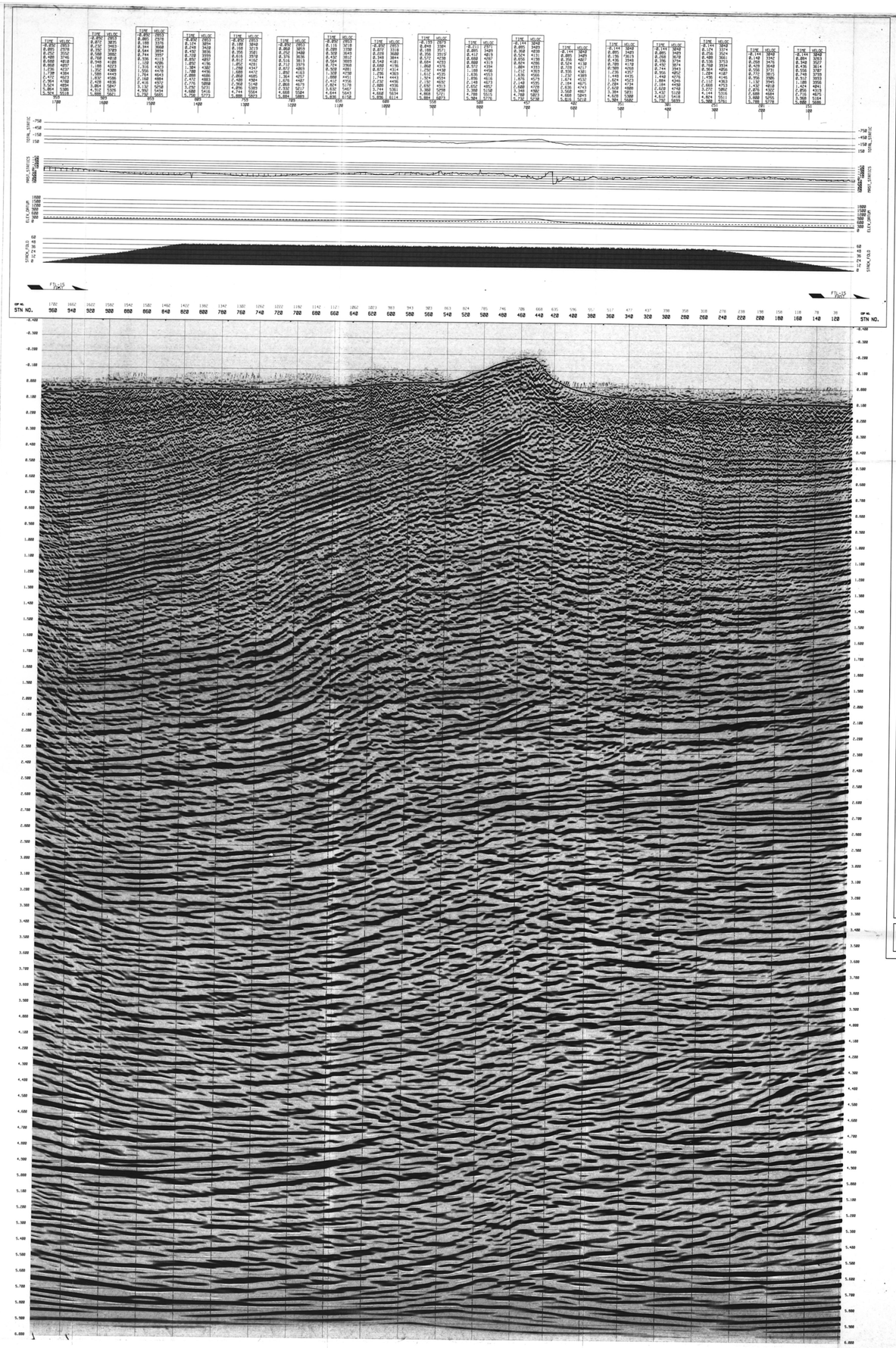

explor DATA LTD.

IN CONJUNCTION WITH:

**Schlumberger**

FORT LIARD

LINE: FTL-15

SPS: 101 - 971

PRE STACK MIGRATION

9229-E34-6P

NORMAL POLARITY

STATICS PARAMETERS
DATUM: 427 M REPL VEL: 3048 M/S

FIELD PARAMETERS

SHOT FOR : EXPLOR DATA
SHOT BY : SCHLUMBERGER JULY 2000

INSTRUMENTS
PRIME/MODEL: I/O SYSTEM II
S.R. : 2 MS
LENGTH : 6 SECONDS
FILTER : OUT-1/2 NYQUIST
NOTCH : OUT
FORMAT : SEG-D

GEOPHONES
TYPE : CFG 30 CT
FREQUENCY : 10 HZ
DAMPING : 70 PCT
GROUP/NUMBER: 1 X 6
SPACING : 1.667 M
GROUP LENGTH: 15 M

SOURCE
TYPE : DYNAMITE
CHARGE : 1X20 EXIB 3X6 KG
HOLE DEPTH: 1X20 EXIB 3X8 M

SPREAD
FOLD : 5000%
S.P. INT : 50 M
GRP. INT : 15 M
TRACES/SHOT : 600

CONFIGURATION
4450.0-<-7.5-*-7.5-->-4450.5 METERS
1<-------300-*-301-------> 600 TRACE

PROCESSED IN JUNE 2000 BY

KELMAN TECHNOLOGIES

PROCESSING SEQUENCE

DEMULTIPLEX:
SAMPLE RATE 2 MS
PROCESS RECORD LENGTH 6 SEC
AMPLITUDE RECOVERY:
EXPONENTIAL GAIN CURVE M(TSPLANX)X(EXP(RT)) R=1 R=0 N=2
TRACE EDITING:
COHERENT NOISE ATTENUATION:
METHOD LOPNO
MODELLING AND MODFITHE SUBTRACTION
DECONVOLUTION:
TYPE SURFACE CONSISTENT SPIKING
OPERATOR LENGTH 80 MS
PREWHITENING 1 %
DESIGN GATE 1000 - 3000 MS AT 1000 M OFFSET
3000 - 5000 MS AT 3000 M OFFSET
4500 - 6000 MS AT 4500 M OFFSET
OFFSET RANGE 1000 - 4500 M
PARTIAL SPECTRAL BALANCING:
FREQUENCY 8 - 60 HZ
EQUALIZATION:
DESIGN GATE 1000 - 3000 MS AT 1000 M OFFSET
3000 - 5000 MS AT 3000 M OFFSET
4500 - 6000 MS AT 4500 M OFFSET
STATICS: (REFRACTION):
METHOD GENERALIZED LINEAR INVERSION
FREQUENCY SPACING EVERY SHOT
SHOT DEVIATION 407 M
UNCONSOLIDATED VELOCITY 760 M/SEC
REPLACEMENT VELOCITY 3048 M/SEC
SORT:
TO EQUAL CDP INTERVAL
VELOCITY ANALYSIS:
METHOD CONSTANT PERCENTAGE MOVEOUT
STATICS (RESIDUAL): 1ST PASS
TYPE AUTOMATIC SURFACE CONSISTENT
CORRELATION WINDOW 200 - 3300 MS
MAXIMUM SHIFT +/- 32 MS
MAXIMUM SHIFTS PER TRACE 2
NUMBER OF ITERATIONS 2
VELOCITY ANALYSIS:
METHOD CONSTANT PERCENTAGE MOVEOUT
MOD:
MUTE PATTERN:
TIME AND SPACE VARIANT
STATICS (RESIDUAL): 2ND PASS
TYPE AUTOMATIC SURFACE CONSISTENT
CORRELATION WINDOW 200 - 3300 MS
MAXIMUM SHIFT +/- 24 MS
MAXIMUM SHIFTS PER TRACE 2
NUMBER OF ITERATIONS 2
2-D PRE-STACK MIGRATION
VELOCITY ANALYSIS:
88 TO 110 PCT VELS BY 2 PCT
FULL PRE-STACK MIGRATION:
TYPE KIRCHOFF SUMMATION
DATUM REFERENCED: TO PLOTTED WEATHERING REPLACED SURFACE.
SEPARATELY AT SHOT AND RECEIVER
FILTER:
TYPE: ZERO-PHASE TIME VARIANT
FREQUENCY: 5/10-50/55 HZ 0 TO 1000MS
5/7-50/55 HZ 1500 TO 3000MS
5/7-40/45 HZ 3000 TO 6000MS
EQUALIZATION:
DESIGN WINDOW 500 MS AGC
OUTPUT STACKED DATA:
FORMAT SEGY
FINAL DISPLAY:

1 KM BLIP INCREMENT

DISPLAY PARAMETERS
HORIZONTAL: 67.733 TPI VERTICAL: 5.0 IPS
SCALE : 1: 20000

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TRIATHLON PROD. NO. 9229-E34-6P LINE NO. 15 PART NO. 1 OF 1 R.R. 10X