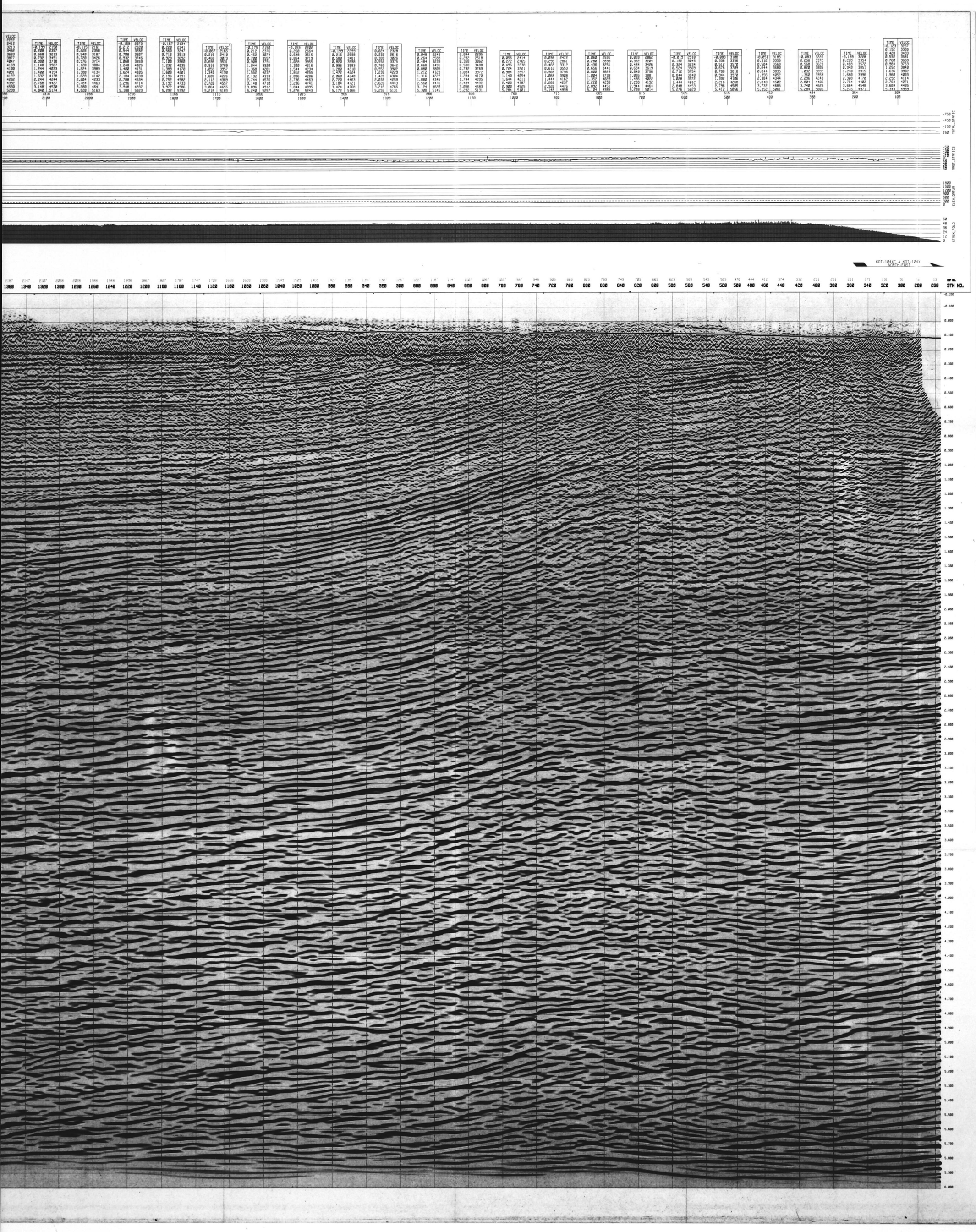

explor DATA L
1900, 639 - 5th AVENUE S.W.
CALGARY, ALBERTA, T2P 0M9
(403) 263 - 5950

IN CONJUNCTION WITH:

Schlumberger

9229-E34-3P

FORT LIARD

LINE: KOT-104XC & KOT-104X

SPS: 291 - 1688 & 1677 - 2445

PRE STACK MIGRATION

NORMAL POLARITY

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

FIELD PARAMETERS

SHOT FOR : EXPLOR DATA
SHOT BY : SCHLUMBERGER MARCH 2000

INSTRUMENTS
MAKE/MODEL: I/O SYSTEM II
S.R. : 2 MS
LENGTH : 8 SECONDS
FILTER : 3-1/2 NYQUIST HZ
NOTCH : OUT
FORMAT : SEG-D

GEOPHONES
TYPE : OYO 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 2X10 3X6 KG
HOLE DEPTH: 1X20 2X10 3X8 M

SPREAD
FOLD : 5000%
S.P. INT : 90 M
GRP. INT : 15 M
TRACES/SHOT : 600

CONFIGURATION
4492.5---7.5-+-7.5---4492.5 METERS
1-------300-*-301------600 TRACE

PROCESSED IN JANUARY 2001 BY

KELMAN TECHNOLOGIES
SEISMIC PROCESSING DIVISION

PROCESSING SEQUENCE

DEMULTIPLEX:
SAMPLE RATE 2 MS
PROCESS RECORD LENGTH 6 SEC

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

TRACE EDITING:

COHERENT NOISE ATTENUATION:
METHOD LINEARS .
MODELLING AND ADAPTIVE SUBTRACTION

DECONVOLUTION:
TYPE SURFACE CONSISTENT SPIKING
OPERATOR LENGTH 80 MS
PREWHITENING 1 %
DESIGN GATE
400 - 4000 MS AT 400 M OFFSET
500 - 4000 MS AT 1500 M OFFSET
1350 - 4100 MS AT 2500 M OFFSET
1500 - 4200 MS AT 4500 M OFFSET
OFFSET RANGE: 400 - 4500 M

PARTIAL SPECTRAL BALANCING:
FREQUENCY 0 - 80 HZ

EQUALIZATION:
DESIGN GATE
400 - 4000 MS AT 400 M OFFSET
500 - 4000 MS AT 1500 M OFFSET
1350 - 4100 MS AT 2500 M OFFSET
1500 - 4200 MS AT 4500 M OFFSET

STATICS: (REFRACTION)
METHOD GENERALIZED LINEAR INVERSION
FREQUENCY SPACING EVERY SHOT
DATUM ELEVATION 427 M
WEATHERING VELOCITY 720 M/SEC
REPLACEMENT VELOCITY 3048(1) M/SEC

SORT:
TO EQUAL CDP INTERVAL

VELOCITY ANALYSIS:
METHOD CONSTANT PERCENTAGE MOVEOUT

STATICS (RESIDUAL): 1ST PASS
TYPE AUTOMATIC SURFACE CONSISTENT
CORRELATION WINDOW 200 - 4000 MS
MAXIMUM SHIFT +/- 32 MS
CORRELATIONS PER TRACE 15
NUMBER OF ITERATIONS 2

VELOCITY ANALYSIS:
METHOD CONSTANT PERCENTAGE MOVEOUT

NMO:

MUTE PATTERN:
TIME AND SPACE VARIANT

STATICS (RESIDUAL): 2ND PASS
TYPE AUTOMATIC SURFACE CONSISTENT
CORRELATION WINDOW 200 - 4000 MS
MAXIMUM SHIFT +/- 24 MS
CORRELATIONS PER TRACE 15
NUMBER OF ITERATIONS 2

2-D PRE-STACK MIGRATION
VELOCITY ANALYSIS:
80 TO 112 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: ZEROPHASE TIME VARIANT
FREQUENCY: 8/12-65/75 HZ 0 TO 1000MS
5/10-58/68 HZ 1500 TO 3000MS
3/ 7-48/58 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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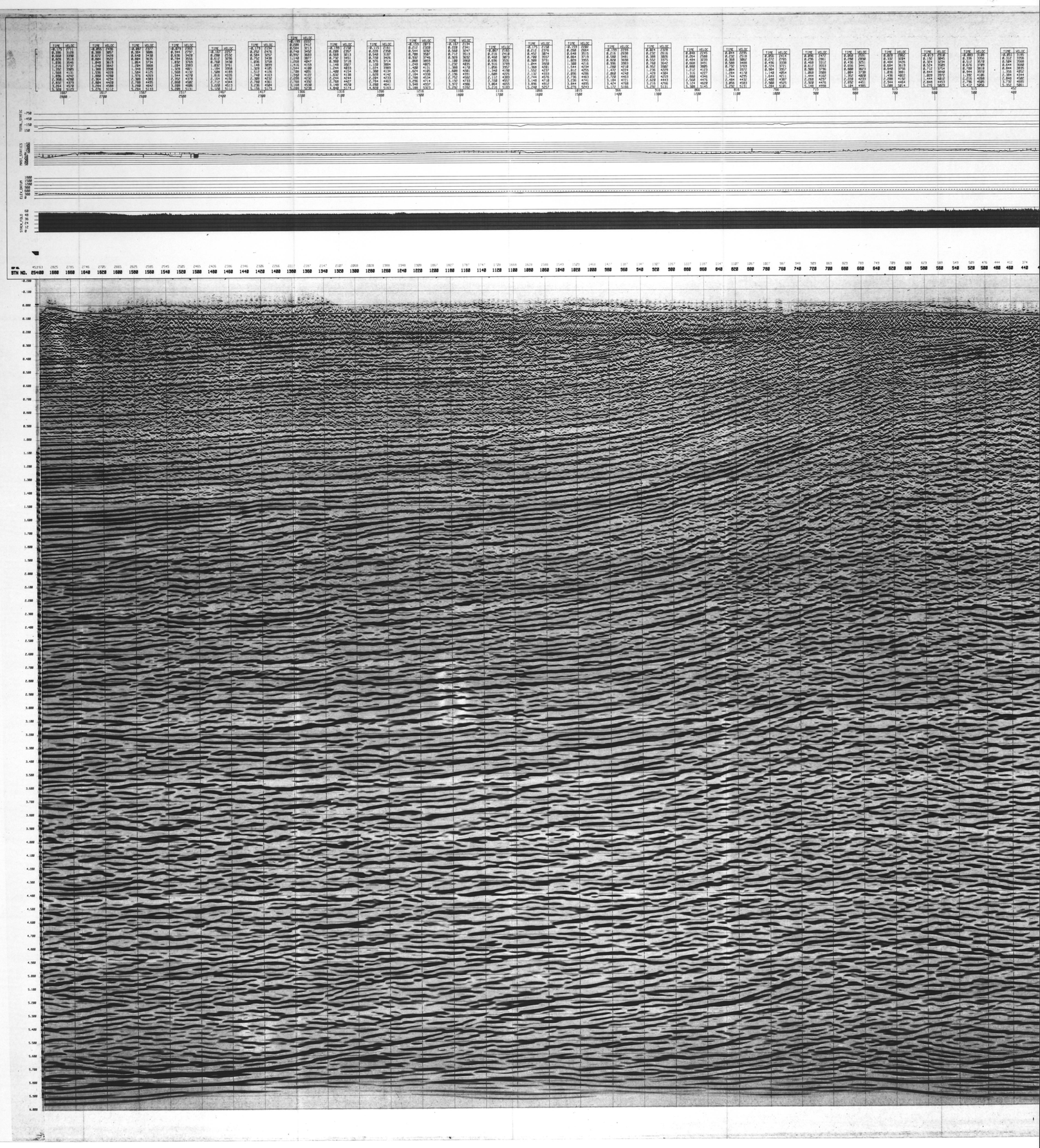
TRIATHLON PROJ. NO. 9229-E34-3P LINE NO. KOT-104XC, KOT-104X PART NO. 2 OF 2 R.R. 10X