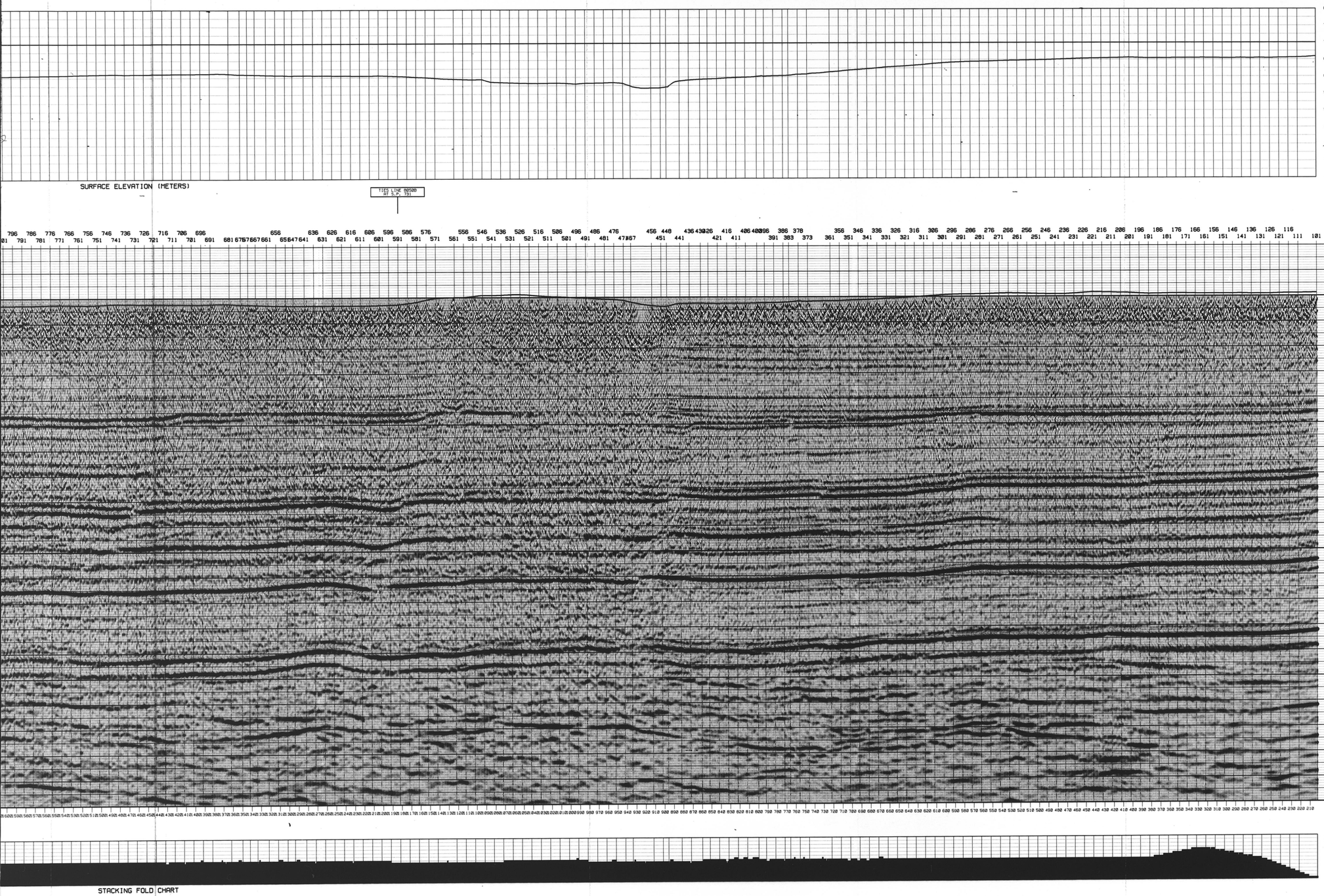


NORTHEAST

Pulsonic GEOPHYSICAL LTD.
CALGARY ALBERTA CANADA

PROCESSING DATE - MAY. 1985

PROCESSED FOR:
PETRO-CANADA
CALGARY, ALBERTA

AREA: ISLAND RIVER

LINE: 8051

LOC: 95A

S.P.: 101 - 1360

MIGRATED SECTION

NORMAL POLARITY

ACQUISITION PARAMETERS

SOURCE TYPE: DYNAMITE
SOURCE INTERVAL: 25 M
SOURCE PATTERN: 1 SINGLE HOLE
CHARGE SIZE: 1.2 KG.
SPREAD (TR): 51 - 68
(DIST): 1500 M --- 25 M --- X --- 25 M --- 1500 M

SHOOTING DIRECTION: NE -> SW
SHOT INTERVAL: 25 M
GEOPHONE PATTERN: 8 OVER 25 M
CHARGE DEPTH: 18 M
51 - 100

RECORDING PARAMETERS

RECORDED BY: ENERTEC GEOPHYSICAL PTY LTD
RECORDING SYSTEM: DFS V
RECORD LENGTH: 6 SECONDS
RECORDING FILTER: 10-128 HZ. NOTCH OUT

DATE: JANUARY, 1985
SAMPLE RATE: 2 MS
GEOPHONE TYPE: MARK L25 14 HZ

PROCESSING HISTORY

1. DEMULTIPLEX/DISPLAY/EDIT
   OUTPUT SAMPLE RATE: 2 MS.
   OUTPUT RECORD LENGTH: 3 SEC.
2. AMPLITUDE RECOVERY
   TYPE: SPHERICAL DIVERGENCE
3. DECONVOLUTION
   TYPE: SPIKING
   DOMAIN: TIME
   DESIGN WINDOW 1 (NEAR OFFSET): 300 - 1100 MS.
   DESIGN WINDOW 2 (NEAR OFFSET): 1300 - 2700 MS.
   DESIGN WINDOW 3 (FAR OFFSET): 1300 - 1700 MS.
   DESIGN WINDOW 4 (FAR OFFSET): 1700 - 1700 MS.
   APPLICATION WINDOW 1: 0 - 1100 MS.
   APPLICATION WINDOW 2: 1100 - 3000 MS.
   OPERATOR LENGTH: 80 MS.
   PREWHITENING: .1 %
4. CDP TRACE GATHER
5. VELOCITY ANALYSIS
   TYPE: COHERENCY SPECTRA AND COMMON OFFSET STACKS
6. NORMAL MOVEOUT APPLICATION
   TYPE: NMO FROM SURFACE

VELOCITY FUNCTION AT SP 146

TIME(MS.)	VRMS(M./SEC.)	VINT(M./SEC.)
50	2000	2000
400	2000	2000
800	2000	2000
1200	2000	2000
1600	2000	2000
1750	2000	2000

VELOCITY FUNCTION AT SP 206

TIME(MS.)	VRMS(M./SEC.)	VINT(M./SEC.)
50	2000	2000
400	2000	2000
800	2000	2000
1200	2000	2000
1600	2000	2000
1750	2000	2000

VELOCITY FUNCTION AT SP 438

TIME(MS.)	VRMS(M./SEC.)	VINT(M./SEC.)
50	2000	2000
400	2000	2000
800	2000	2000
1200	2000	2000
1600	2000	2000
1750	2000	2000

VELOCITY FUNCTION AT SP 456

TIME(MS.)	VRMS(M./SEC.)	VINT(M./SEC.)
50	2000	2000
400	2000	2000
800	2000	2000
1200	2000	2000
1600	2000	2000
1750	2000	2000

VELOCITY FUNCTION AT SP 536

TIME(MS.)	VRMS(M./SEC.)	VINT(M./SEC.)
50	2000	2000
400	2000	2000
800	2000	2000
1200	2000	2000
1600	2000	2000
1750	2000	2000

VELOCITY FUNCTION AT SP 601

TIME(MS.)	VRMS(M./SEC.)	VINT(M./SEC.)
50	2000	2000
400	2000	2000
800	2000	2000
1200	2000	2000
1600	2000	2000
1750	2000	2000

VELOCITY FUNCTION AT SP 746

TIME(MS.)	VRMS(M./SEC.)	VINT(M./SEC.)
50	2000	2000
400	2000	2000
800	2000	2000
1200	2000	2000
1600	2000	2000
1750	2000	2000

VELOCITY FUNCTION AT SP 806

TIME(MS.)	VRMS(M./SEC.)	VINT(M./SEC.)
50	2000	2000
400	2000	2000
800	2000	2000
1200	2000	2000
1600	2000	2000
1750	2000	2000

VELOCITY FUNCTION AT SP 1051

TIME(MS.)	VRMS(M./SEC.)	VINT(M./SEC.)
50	2000	2000
400	2000	2000
800	2000	2000
1200	2000	2000
1600	2000	2000
1750	2000	2000

VELOCITY FUNCTION AT SP 1201

TIME(MS.)	VRMS(M./SEC.)	VINT(M./SEC.)
50	2000	2000
400	2000	2000
800	2000	2000
1200	2000	2000
1600	2000	2000
1750	2000	2000

7. DRIFT CORRECTIONS
   DATUM: 700 M. ASL
   REPLACEMENT VELOCITY: 3000 M/SEC.
8. AUTOMATIC SURFACE CONSISTENT STATICS
   WINDOW: 400 - 1700 MS.
9. AUTOMATIC TRIM STATICS
   WINDOW: 300 - 1700 MS.
10. FILTER APPLICATION
    TYPE: ZERO PHASE BANDPASS
    PASSBAND: 18/15 - 60/70
    DOMAIN: FREQUENCY
    TYPE: 0 - 3000 MS.
11. TRACE MUTING
    OFFSET(M): 330 - 340 - 1525
    TIME(MS.): 0 - 500 - 1100
12. CDP STACKING
    STACKING FOLD: 1200%
13. MIGRATION
    DOMAIN: TIME
    TYPE: FINITE DIFFERENCE
    VELOCITIES: 90% OF STACKING
14. SCALING
    TYPE: RESIDUAL DEPTH ADJUSTMENT
15. DISPLAY TO FILM
    VERTICAL PLOTTING SCALE: 7.5 INCHES/SEC.
    HORIZONTAL PLOTTING SCALE: 36 TRACES/INCH

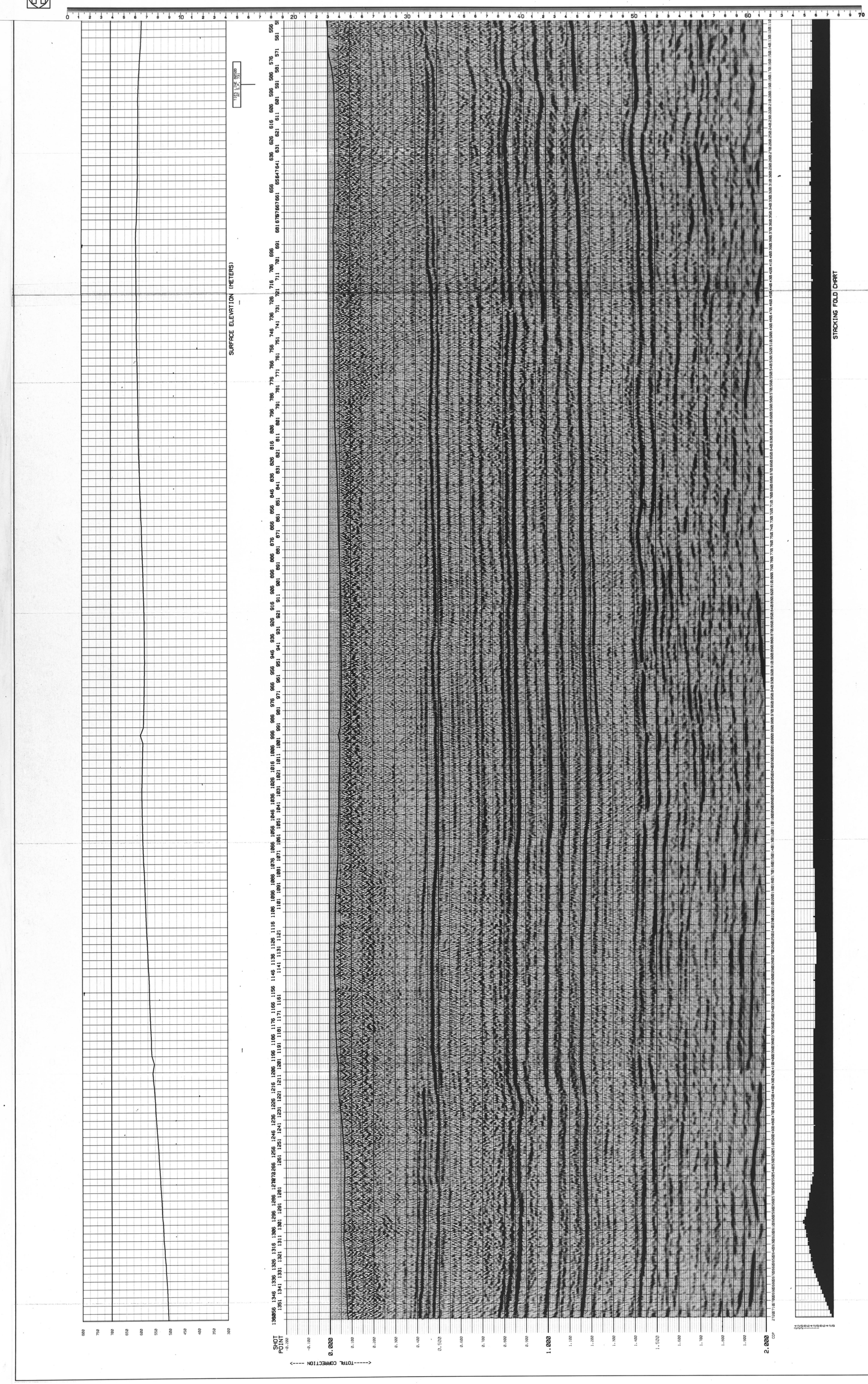
terra survey ltd
2060 Walkley Rd.
Ottawa, Ont.
Canada K1G 3P5
Tel. (613) 731-9571
Telex: 053-3502
Cable: TERRA

PROJ. NO. 9 2 2 9 - P 2 8 - 8 E

LINE NO. 8 0 5 1

PART NO. 1 OF 2

R.R. 8X

terra surveys ltd
2060 Walkley Rd. Ottawa, Ont.
Canada K1G 3P5
Tel. (613) 731-9571
Telex: 053-3502 Cable: TERRA

PROJ. NO. 9 2 2 9 - P 2 8 - 8 E LINE NO. 8 0 5 1 PART NO. 2 OF 2 R.R. 8X