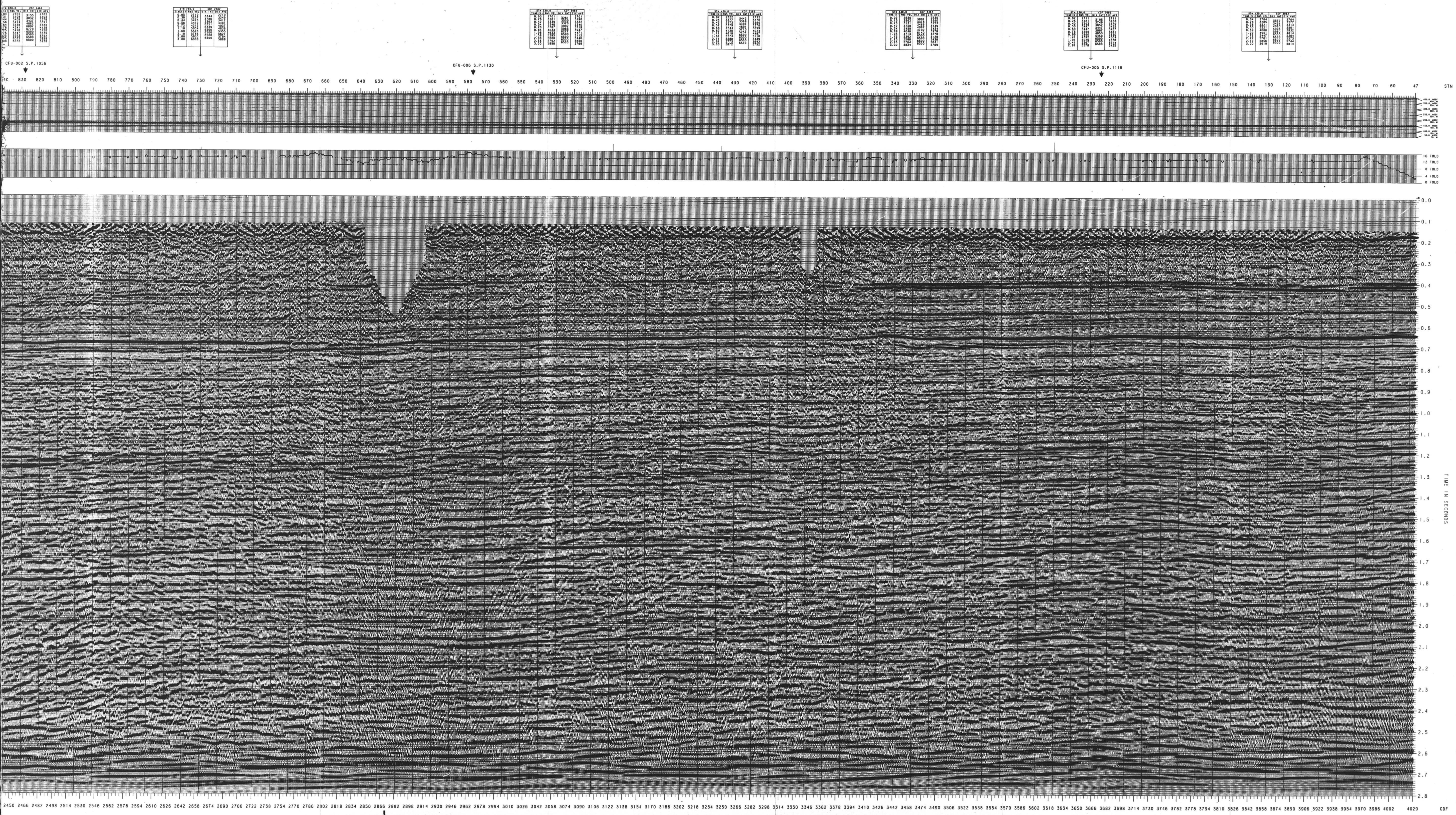

9229-A4-1E

PEEL PLATEAU
CAGB-001

S.P. 2061-47 NTS #

MIGRATION
REVERSE FIELD POLARITY

NORTHEAST

AMOCO CANADA PETROLEUM COMPANY LTD.
CALGARY, ALBERTA, CANADA

DATUM ELEVATION: 400 M
DATUM VELOCITY: 3700 M/S
ACCOUNT: F000881
DATE: MAY 1990

RECORDING DATA

SOURCE

RECORDED FOR :	AMOCO
RECORDED BY :	WESTERN GEOPHYSICAL
ACQUISITION DATE :	FEB 1990
ENERGY SOURCE :	DYNAMITE
SOURCE PATTERN :	SINGLE HOLE
AVG. CHARGE SIZE :	0.5 KG
AVG. CHARGE DEPTH :	15 M

INSTRUMENTS

RECORDING SYSTEM :	DFS-5
FORMAT :	SEG-B
FIELD FILTER :	OUT-128 HZ
NOTCH FILTER :	OUT
FIELD SAMPLE RATE :	2 MS
RECORD LENGTH :	3 SEC
GEOPHONE TYPE :	LRS 1101 14 HZ
GEOPHONE PATTERN :	9/15 M INLINE

CABLE

NO. OF TRACES :	120
GROUP INTERVAL :	15 M
S.P. INTERVAL :	75 M
FOLD :	1200%

SPREAD DIAGRAM

900M — 15M — 15M — 900M
120 61 60 1

PROCESSING SEQUENCE

1. REFORMAT/DEMULTIPLEX
   PROCESSING SAMPLE RATE 2 MS
2. GEOMETRY/STATICS COMPUTATION
3. GEOMETRIC SPREADING ADJUSTMENT
4. COHERENT NOISE FILTER
5. DECONVOLUTION
   PREDICTION GAP: 2 MS - SPIKING
   OPERATOR LENGTH: 64 MS
6. AMPLITUDE ADJUSTMENT
   TYPE: INDIVIDUAL TRACE BALANCE
7. RESIDUAL STATICS
8. VELOCITY ANALYSIS
9. POST NMO MUTE APPLICATION
10. CDP STACKING
11. SPECTRAL WHITENING
12. MIGRATION
    TYPE: FINITE DIFFERENCE
13. FREQUENCY FILTER
    TYPE: ZERO PHASE
    TIME: FREQUENCY/SLOPE:
    0-1000 MS 18/24 80/48 HZ/DB
    1700-3000 MS 16/24 60/48 HZ/DB
14. GAIN APPLICATION
15. DISPLAY TO FILM
    PLOTTING DIRECTION: LEFT TO RIGHT

LEGEND	SCALES
↓ VELOCITY FUNCTION ▼ INTERSECTIONS	32 TRACES PER INCH 7.5 INCHES PER SECOND

96251

terra surveys ltd
2060 Walkley Rd Ottawa, Ont.
Canada K1G 3P5
Tel. (613) 731-9571
Fax: (613) 731-0453

PROJ. NO. 9229-A4-1E

LINE NO. CAGB-001

PART NO. 1 OF 3

R.R. 10X

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Canada K1G 3P5
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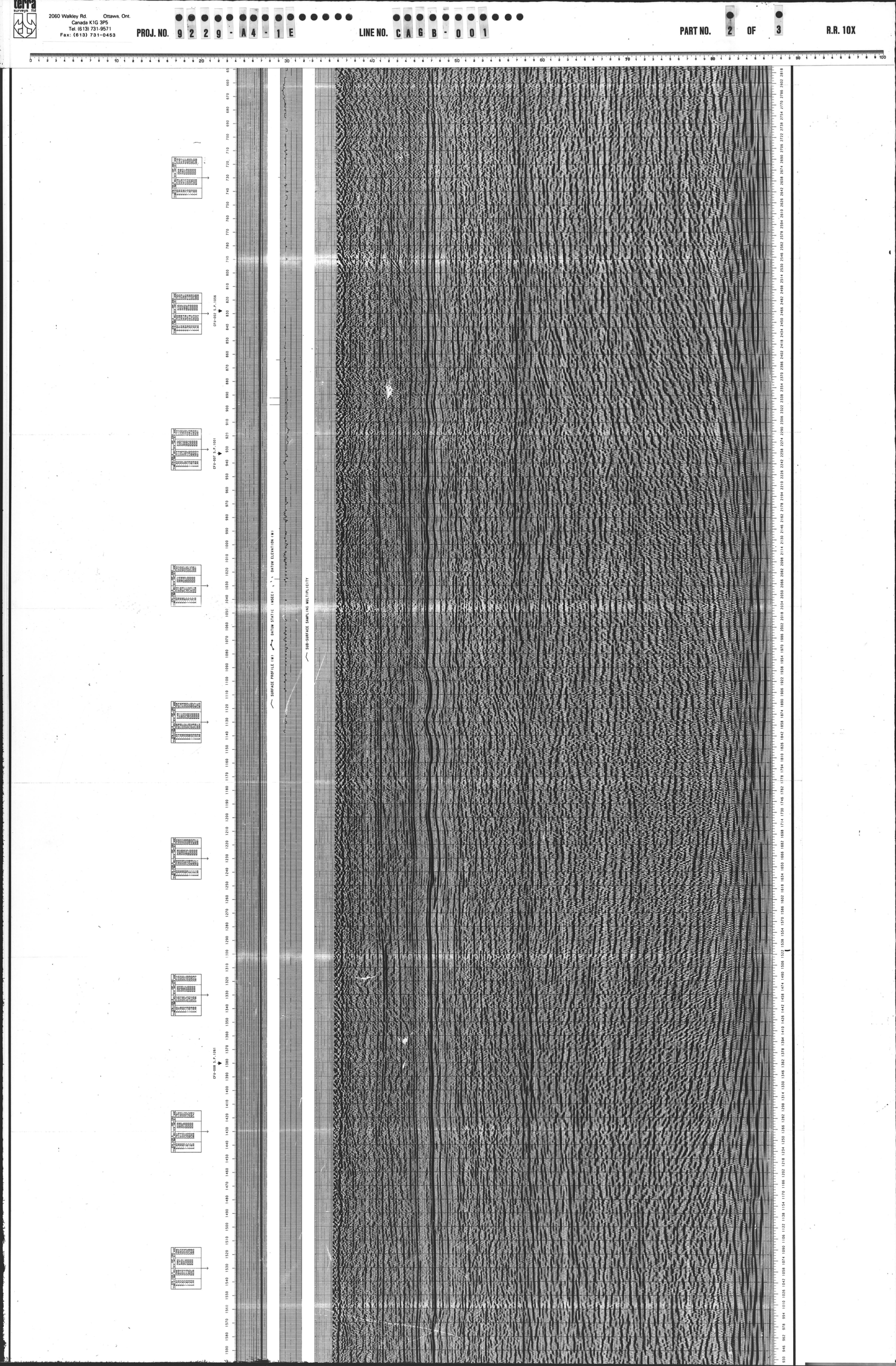
PROJ. NO. 9229-A4-1E LINE NO. CAGB-001 PART NO. 2 OF 3 R.R. 10X



PEEL PLATEAU
CAGB-001

S.P. 2061-47 NTS #

MIGRATION
REVERSE FIELD POLARITY

NORTHEAST →

AMOCO CANADA PETROLEUM COMPANY LTD.
CALGARY, ALBERTA, CANADA

DATUM ELEVATION: 400 M ACCOUNT: FD00881
DATUM VELOCITY: 3700 M/S DATE: MAY 1990

RECORDING DATA

SOURCE

RECORDED FOR :	AMOCO
RECORDED BY :	WESTERN GEOPHYSICAL
ACQUISITION DATE :	FEB 1990
ENERGY SOURCE :	DYNAMITE
SOURCE PATTERN :	SINGLE HOLE
AVG. CHARGE SIZE :	0.5 KG
AVG. CHARGE DEPTH :	15 M

INSTRUMENTS

RECORDING SYSTEM :	DFS-5
FORMAT :	SEG-B
FIELD FILTER :	OUT-128 HZ
NOTCH FILTER :	OUT
FIELD SAMPLE RATE :	2 MS
RECORD LENGTH :	3 SEC
GEOPHONE TYPE :	LRS 1101 14 HZ
GEOPHONE PATTERN :	9/15 M INLINE

CABLE

NO. OF TRACES :	120
GROUP INTERVAL :	15 M
S.P. INTERVAL :	75 M
FOLD :	1200%

SPREAD DIAGRAM

900M — 15M — 15M — 900M
120 61 60 1

PROCESSING SEQUENCE

1. REFORMAT/DEMULTIPLEX
   TYPE: SEG-B TO WESTERN CODE 4
   PROCESSING SAMPLE RATE 2 MS
   PROCESSING RECORD LENGTH 3.0 S
2. GEOMETRY/STATICS COMPUTATION
   PROCESSED FROM: SURFACE
   REFRACTION/DATUM STATICS COMPUTED BY: AMOCO CANADA
3. GEOMETRIC SPREADING ADJUSTMENT

TIME MS	VEL. M/S	TIME MS	VEL. M/S
20	3050	200	3350
800	3660	1100	4570
3000	6000		

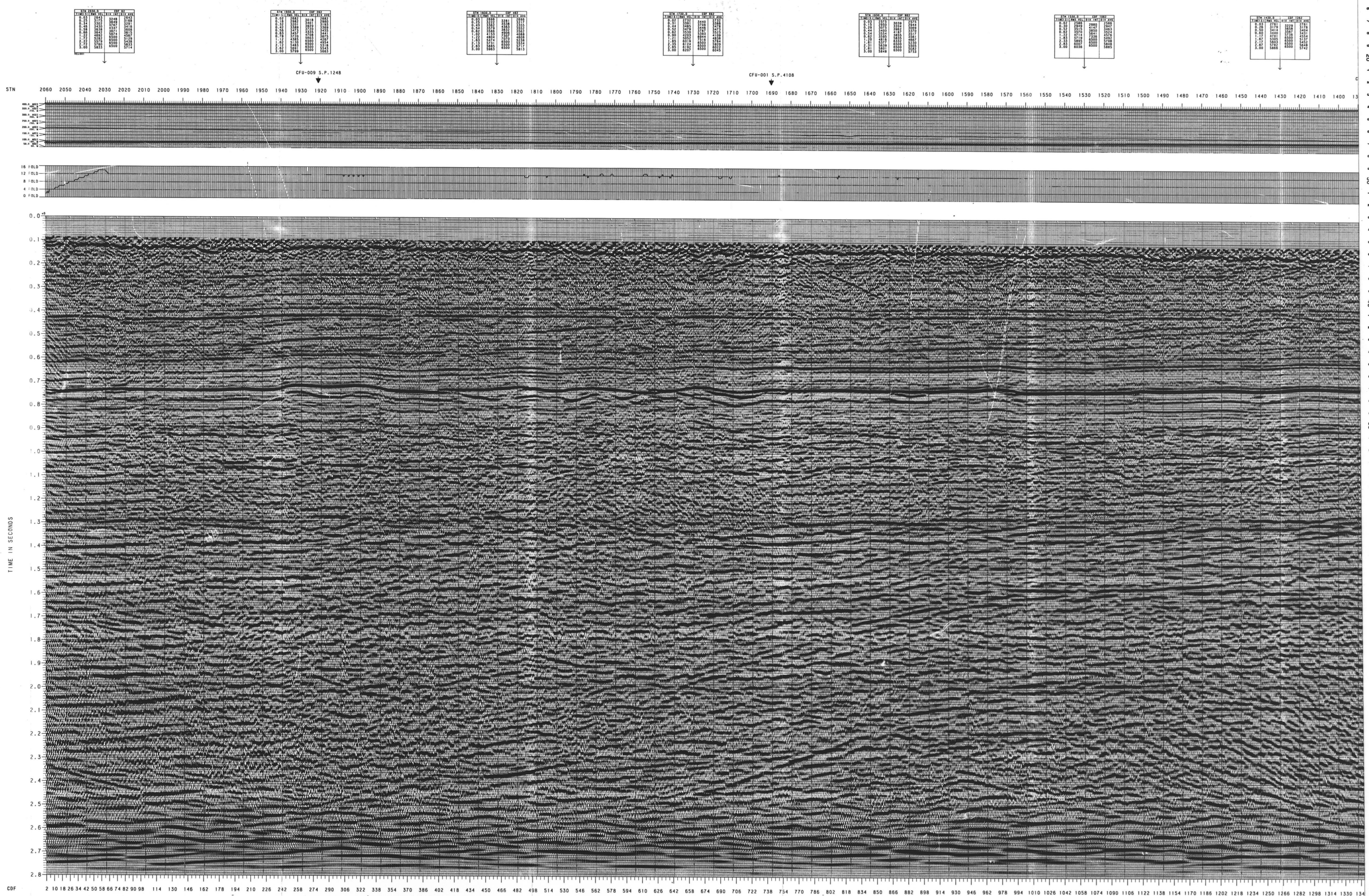
4. COHERENT NOISE FILTER
   TYPE: F-K DOMAIN REJECT
   GATHER: SHOT
   VELOCITY: -320 TO -3000 M/S
   WAVENUMBER: -4.6 TO -63 CYCLES/KM
   FREQUENCY: 4 - 35 HZ
   VELOCITY: 320 TO 3000 M/S
   WAVENUMBER: 4.6 TO 63 CYCLES/KM
   FREQUENCY: 4 - 35 HZ
5. DECONVOLUTION
   TYPE: WIENER-LEVINSON, TIME DOMAIN
   MODEL: SURFACE CONSISTENT (1 PASS)
   PHASE: MINIMUM PHASE
   PREDICTION GAP: 2 MS - SPIKING
   OPERATOR LENGTH: 64 MS
   PREWHITENING: .01 %
   A/C TYPE: SHOT AND RECEIVER AVERAGED
   START: OFFSET 15 M 180 - 1600 MS
   STOP: OFFSET 900 M 360 - 1620 MS
6. AMPLITUDE ADJUSTMENT
   TYPE: INDIVIDUAL TRACE BALANCE
   ZONE: 300 - 1600 MS
7. RESIDUAL STATICS
   TYPE: SURFACE CONSISTENT
   NUMBER OF PASSES: 2
   ZONE(S): 260 - 1060 MS
   MODEL FILTER: 15 - 60 HZ
8. VELOCITY ANALYSIS
   MULTI-VELOCITY FUNCTION STK./ ANALYSIS
   RESIDUAL NMO FROM COMMON OFFSET STACK
9. POST NMO MUTE APPLICATION

DIST. M	TIME MS	DIST. M	TIME MS
225	0	240	180
900	600		

10. CDP STACKING
    TYPE: MEDIAN CALC. 4 CENTRAL SAMP.
    STACK TRACE INTERVAL: 8 M
11. SPECTRAL WHITENING
    TYPE: TIME VARIANT
    FREQUENCY RANGE: 16 - 100 HZ
12. MIGRATION
    TYPE: FINITE DIFFERENCE
    VELOCITY: 90% OF STACKING VELOCITY
13. FREQUENCY FILTER
    TYPE: ZERO PHASE
    TIME: FREQUENCY/SLOPE:
    0-1000 MS 18/24 80/48 HZ/DB
    1700-3000 MS 16/24 60/48 HZ/DB
14. GAIN APPLICATION
    AGC - TRIANGULAR OPERATOR OF 300 MS
15. DISPLAY TO FILM
    PLOTTING DIRECTION: LEFT TO RIGHT

LEGEND
▼ VELOCITY FUNCTION INTERSECTIONS

SCALES
32 TRACES PER INCH
7.5 INCHES PER SECOND



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Canada K1G 3P5
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LINE NO. CAGB-001

PART NO. 3 OF 3

R.R. 10X