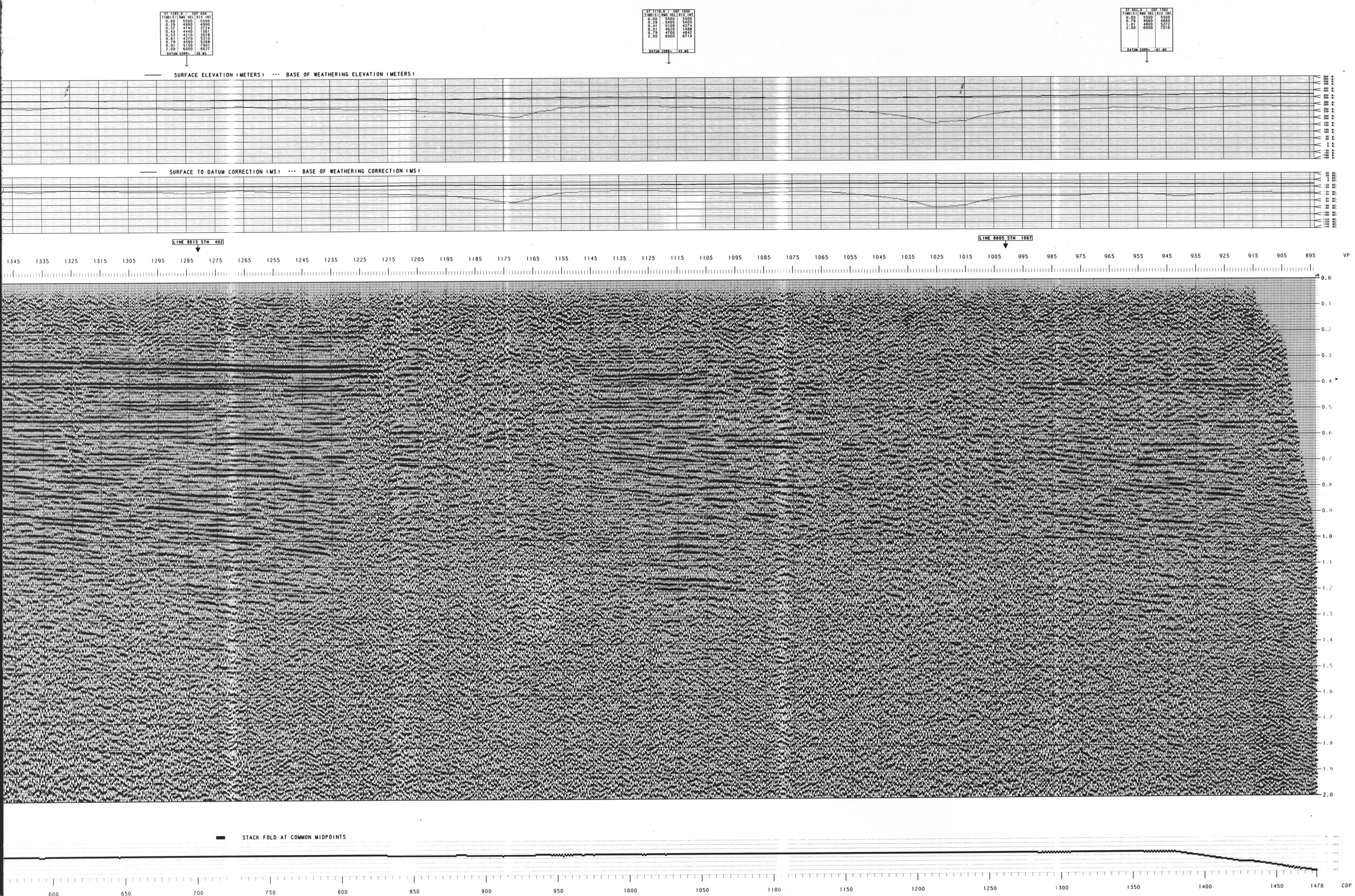
9229-P28-12E

LINE 8602
V.P. 1581-919
STRUCTURAL STACK

NORMAL POLARITY

NORTH-EAST



106+10

PETRO-CANADA INC.

PROCESSED BY WESTERN GEOPHYSICAL DIVISION OF LITTON INDUSTRIES

AREA: TWEED LAKE, N.W.T.

SURVEY DATE:	JANUARY 1985
PROCESSING DATE:	FEBRUARY 1986
RECORDED BY:	WESTERN GEOPHYSICAL CO. LTD.
REPLACEMENT VELOCITY:	6000 M/SEC
DATUM ELEVATION:	305 METERS

RECORDING INFORMATION

SOURCE:

ENERGY SOURCE	VIBROSEIS
VIBRATOR MODEL	LRS-309
SWEEP FREQUENCY	20-100 HZ LINEAR
SWEEP LENGTH	4 SEC
NUMBER OF SWEEPS	6
DRAG LENGTH	40 M
SOURCE TO FIRST RECEIVER	80 M
VIB. POINT INTERVAL	40 M
GROUPS DROPPED IN GAP	7

INSTRUMENTS:

AMPLIFIER	DFS V
FILTER	OUT-128 HZ
SAMPLING INTERVAL	2 MS
RECORD LENGTH	7 SEC
60 HZ NOTCH FILTER	OUT
TAPE FORMAT	SEG-B

RECEIVERS:

GEOPHONE TYPE	LRS-1011 14 HZ
GEOPHONES PER GROUP	9 OVER 20 M
GROUPS RECORDED	96
GROUP INTERVAL	20 M
PERCENT COVERAGE	2400 %

SPREAD GEOMETRY:

SOURCE:			•		
TRACE:	1	48	•	49	96
DISTANCE:	1020 M	80 M	•	80 M	1020 M

PROCESSING SEQUENCE AND PARAMETERS

PROCESSING SAMPLE INTERVAL 2 MS.

1. DEMULTIPLEX:
   VIBROSEIS CORRELATION
   PROCESSED TO 3.0 SECONDS
2. TRACE EDIT:
   VISUAL QC OF EVERY RECORD
3. GEOMETRY COMPUTATIONS:
   ELEVATIONS AND DISTANCES
4. 60 HZ NOTCH FILTER
5. F-K DOMAIN FILTER:
   ATTENUATE DIPS OF
   5 - 12.5 MS/TR
6. PHASE COMPENSATION:
   LRS-1011 14 HZ GEOPHONES
7. AMPLITUDE COMPENSATION:
   TIME FUNCTION EXPONENTIAL VALUE OF 2.5
8. ZERO-PHASE FREQUENCY DECONVOLUTION:
   NO. OF WINDOWS 1
   NEAR TRACE START TIME 200 MS
   START TIME VELOCITY 6000 M/SEC
   WINDOW LENGTH 1000 MS
   PERCENT PRE-WHITENING 0.1 %
9. PREDICTIVE DECONVOLUTION:
   TYPE: MINIMUM PHASE INVERSE FILTER
   NO. OF WINDOWS 1
   NEAR TRACE START TIME 200 MS
   START TIME VELOCITY 6000 M/SEC
   WINDOW LENGTH 1000 MS
   MINIMUM PREDICTION DISTANCE 20 MS
   OPERATOR LENGTH 100 MS
   PERCENT PRE-WHITENING 0.1 %
10. C.D.P. SORT
11. STATIC COMPUTATIONS:
    MODEL BASED REFRACTION
    DRIFT AND WEATHERING CORRECTIONS
12. AUTOMATIC STATICS (MISER®):
    WINDOW 250 - 1000 MS
    SHIFT LIMIT +/- 24 MS
13. VELOCITY ANALYSIS (VELAN®):
14. NORMAL MOVEOUT CORRECTION
15. MUTE PATTERN:

DISTANCE (METERS)	TIME (MS.)
180	0
280	150
600	280
700	500
1000	1000

16. STACK:
    2400 % EQUAL WEIGHTS
    WITH CDP CORRELATION TRIM STATICS
17. TIME VARIANT FILTER:

TIME (MS)	FILTER APPLIED
0-1000	20-90 HZ. 18/48 DB/OCTAVE
1200-2000	20-70 HZ. 18/48 DB/OCTAVE

18. REFLECTION STRENGTH GAIN:
    MAXIMUM STAND OUT AFTER GAIN: 2.0
19. RMS GAIN:
    100/800 MS WINDOWS

DISPLAY PARAMETERS

HORIZONTAL SCALE	24 TRACES PER INCH
VERTICAL SCALE	7.5 INCHES PER SECOND
PLOTTING GAIN	12 DB

terra
2060 Walkley Rd. Ottawa, Ont. Canada K1G 3P5
Tel. (613) 731-9571
Telex: 053-3602 Cable: TERRA

PROJ. NO. 9229-P28-12E

LINE NO. 8602

PART NO. 1 OF 2

R.R. 8X

ST 1562.0	CDF 141	
TIME(S)	RMS VEL	DIX INT
0.00	5500	5500
0.41	4805	4805
0.57	4665	4285
0.67	4165	0
0.89	4155	4124
2.00	6000	7143
DATUM CORR= -25 MS		

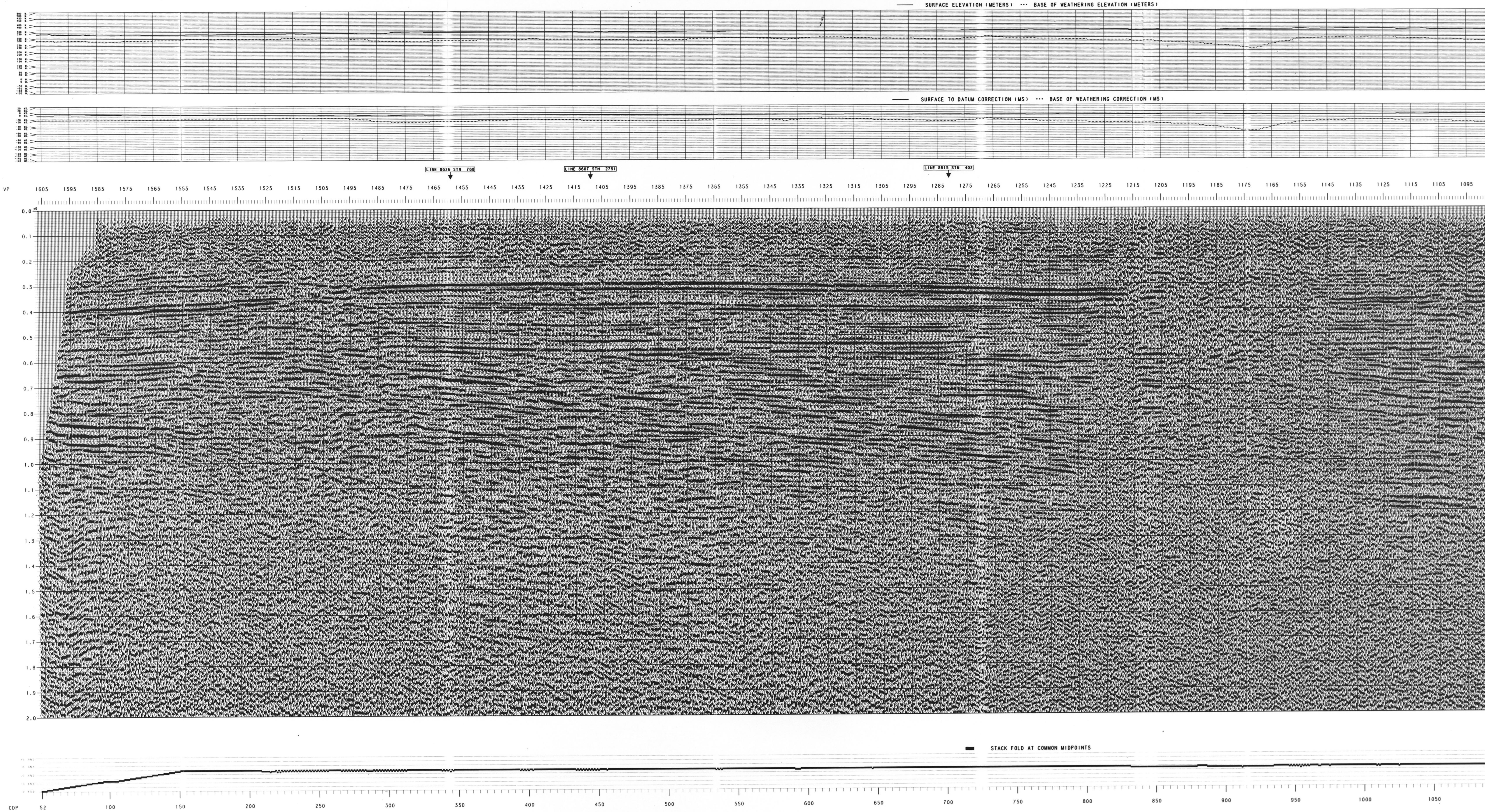
VEL8602

ST 1459.0	CDF 348	
TIME(S)	RMS VEL	DIX INT
0.00	5500	5500
0.35	4720	4720
0.59	4455	4037
0.71	4410	4182
2.00	6000	6716
DATUM CORR= -38 MS		

ST 1372.0	CDF 522	
TIME(S)	RMS VEL	DIX INT
0.00	5500	5500
0.35	4920	4920
0.61	4555	4012
0.81	4475	4222
1.11	5230	6866
2.00	6000	6840
DATUM CORR= -36 MS		

ST 1285.0	CDF 696	
TIME(S)	RMS VEL	DIX INT
0.00	5500	5500
0.29	4990	4990
0.37	4745	3724
0.43	4440	1561
0.53	4210	3028
0.61	4370	5310
0.79	4590	5268
0.91	5150	7901
2.00	6000	6627
DATUM CORR= -38 MS		

ST 1118.0	CDF 1030	
TIME(S)	RMS VEL	DIX INT
0.00	5500	5500
0.29	5405	5405
0.41	5100	4274
0.51	4620	1488
0.79	4700	4842
2.00	6000	6714
DATUM CORR= -45 MS		



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PART NO. 2 OF 2

R.R. 8X