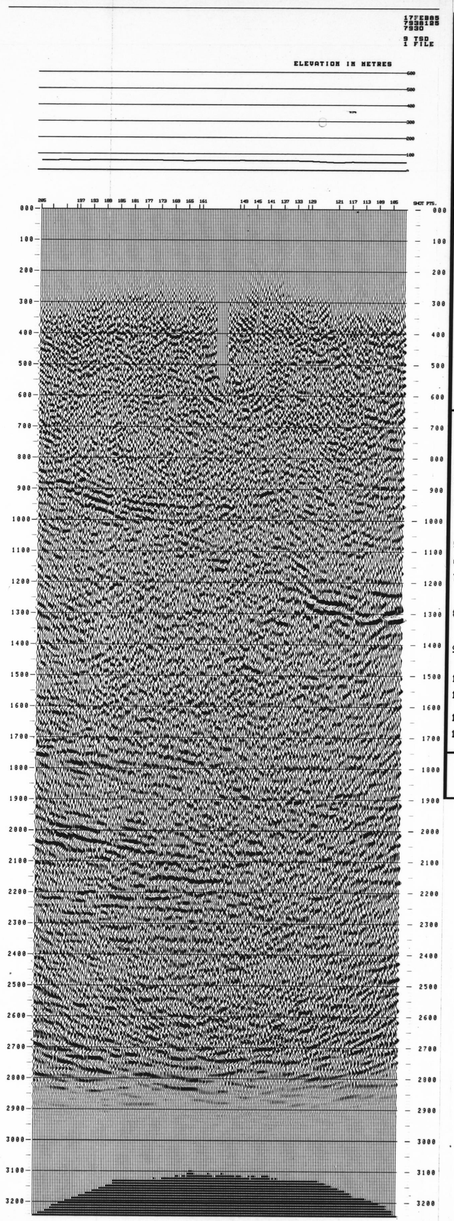

PETREL CONSULTANTS LTD.

PROCESSING DATE: FEB 1985

NSM RESOURCES LTD

AREA: LITTLE BEAR
LINE: 125
PROVINCE: N.W.T.
NW 289 SHOT POINTS 101 SE

STRUCTURE SECTION

NORMAL POLARITY

ACQUISITION PARAMETERS

SHOT BY: WESTERN GEOPHYSICAL LTD

DATE: DEC. 1984

SPREAD: STATION INTERVAL 33.5 M
SHOT PT. INTERVAL 134 M
SPREAD (TR) 1 48 49 96
DIST.(M) 1608 M 33.5 X 33.5 1608 M

SOURCE: DYNAMITE
1 X 2 KG AT 14 M

RECEIVERS: LRS L-101: 14 HZ, 9 OVER 33.5M

INSTRUMENTS: DFS V 96 TRACE
NOTCH: OUT
GAIN MODE: IFP
TAPE FORMAT: SEG8
FIELD FILTER: 8 - 128 HZ

PROCESSING PARAMETERS

1. DEMULTIPLEX — SAMPLE RATE 2 MS. RECORD LENGTH 3 SEC.
2. TRACE GATHER
3. AMPLITUDE RECOVERY — EXPONENTIAL
4. DECONVOLUTION — TYPE: SPIKING
   PRE-WHITENING: 4.0 %
   DESIGN WINDOW: 800 - 2200 MS.
   OPERATOR LENGTH: 66 MS.
   APPLICATION WINDOW: 0 - 3 SEC.
5. VELOCITY ANALYSIS
6. NORMAL MOVEOUT
7. STRUCTURAL CORRECTIONS — ELEVATION, WEATHERING, DRIFT
   DATUM ELEVATION: 580 M
   DATUM VELOCITY: 3048 M/SEC.
8. STATICS — SURFACE CONSISTENT RESIDUAL
   WINDOW: 500 - 2800 MS.
   MAXIMUM ALLOWED SHIFT: +/- 20 MS.
   MAXIMUM OFFSET INCLUDED: 1608 M
9. FIRST BREAK MUTING

DISTANCE(M)	270	885	1608	3264
TIME(MS.)	540	800	1300	2200

10. STACK — 1200 %
11. T-V FILTER — 20/26 - 70/85 0 - 1850 MS.
    16/23 - 65/75 1270 - 3800 MS.
12. EQUALIZATION — MEAN WINDOW 800 - 2200 MS.
13. WAVE EQUATION MIGRATION — 98% OF RMS VELOCITIES

DISPLAY PARAMETERS

VERTICAL PLOTTING SCALE: 7.5 INCHES/SEC.
HORIZONTAL PLOTTING SCALE: 24 TRACES/INCH

9229-N9-6E

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Telex: 053-3602 Cable: TERRA
PROJ. NO. 9229-N9-6E
LINE NO. 125
PART NO. 1 OF 1
R.R. 10X