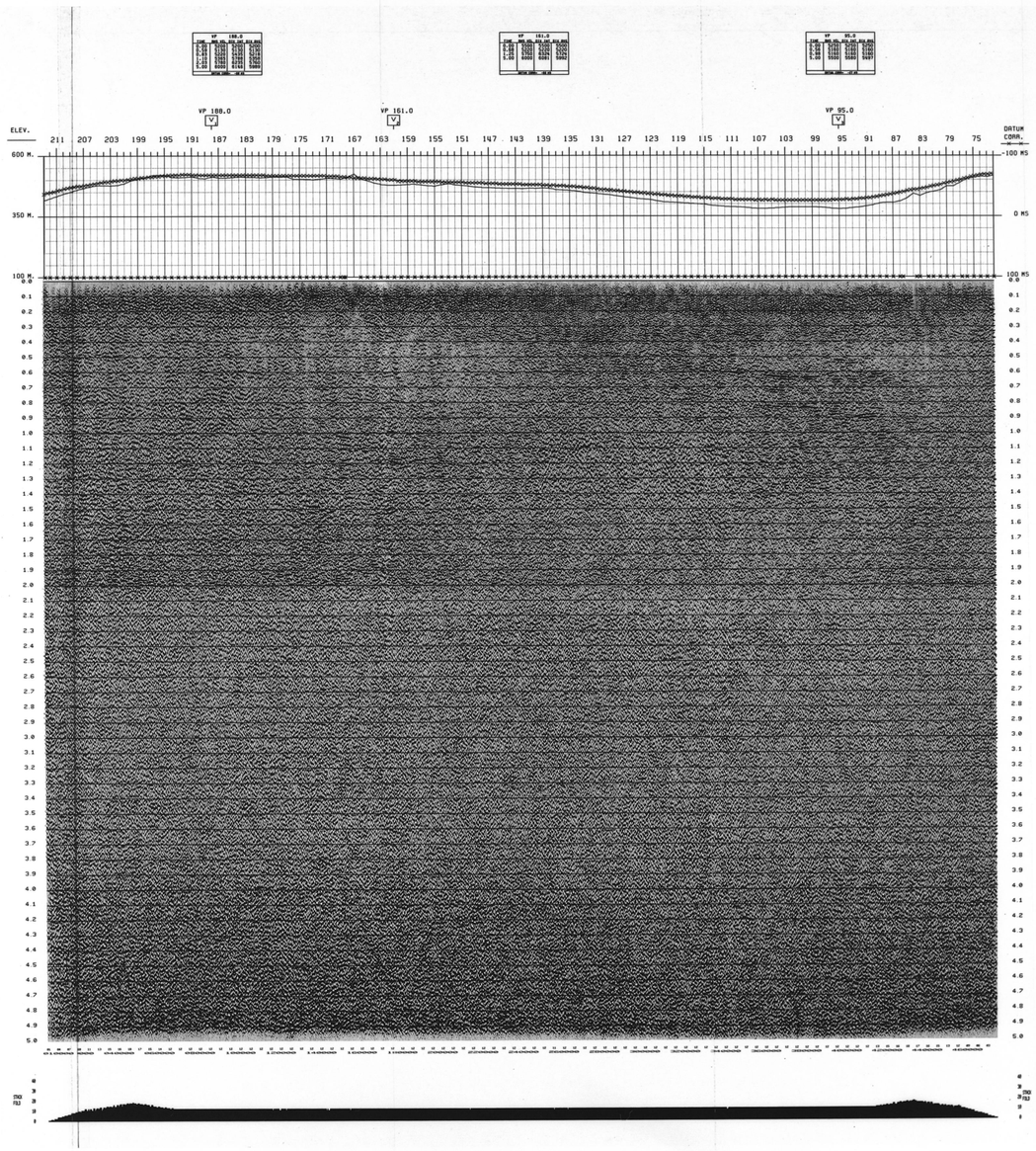

9 229 p28 3E
Canada Oil and Gas Lands Administration
Administration des sociétés de la Qté et des terres du Canada
MAY 2 1985
Resource Evaluation Div.
Direction des évaluations des ressources
Received

117248

PROSPECT : MAHONY LAKE
LINE : 72X
SHOT STATION# VPS. : (212+90)-72
PROCESS : CONVENTIONAL
POLARITY : REVERSE

NORTHEAST

PETRO-CANADA INC.

AREA: MAHONY LAKE, N.W.T.

REPLACEMENT VELOCITY: 6000 M/SEC DATUM PLANE: 305 METERS

SURVEY DATE : APRIL 1984
RECORDED BY : WESTERN GEOPHYSICAL CO. OF CANADA LTD. (PARTY #746)
PROCESSED BY: WESTERN GEOPHYSICAL CO. OF CANADA LTD.
FOLD : 1200 %

RECORDING DATA

SOURCE

ENERGY SOURCE	VIBROSEIS
NUMBER OF SOURCES	4
SOURCE PATTERN	INLINE
SOURCE TO FIRST RECEIVER	90 METERS
NUMBER OF SWEEPS	6
PILOT SWEEP	14-90 HZ.
SWEEP LENGTH	4 SECONDS
NOMINAL INTERVAL	120 METERS

INSTRUMENTS

AMPLIFIER	DFS V-RODIT IV
FILTER	12-OUT
SAMPLING INTERVAL	2 MS.
RECORD LENGTH	9 SECONDS
TAPE FORMAT	SEG B-96 TRACE

CABLE

TYPE OF GEOPHONE	GEOSPACE 20D, 10 HZ
NUMBER OF GEOPHONES PER GROUP	9 AT 60 METERS
NUMBER OF GROUPS RECORDED	96
GROUP INTERVAL	30 METERS
PERCENT COVERAGE	1200 %
SPREAD	1500-90-VP-90-1500

PROCESSING SEQUENCE AND PARAMETERS

PROCESSING SAMPLING INTERVAL 2 MSEC

1. EDIT/DEMULTIPLEX
2. VIBROSEIS® CORRELATION
3. PHASE COMPENSATION
   GEOPHONE
4. STATICS
   DATUM CORRECTIONS
5. AMPLITUDE COMPENSATION
   T SQ. FUNCTION
6. PRE-PROCESSOR
   CDP SORT
7. PRE-FILTER
   24/24-125/80 HZ/DB/OCT
8. DECONVOLUTION BEFORE STACK
   2 MS. MINIMUM PREDICTION DISTANCE
   120 MS. MAXIMUM PREDICTION DISTANCE
   2 % WHITE LIGHT
9. VELOCITY ANALYSIS (VELAN)
10. NMO CORRECTION
11. MUTE

DISTANCE (M)	TIME (MSEC)
330	0
660	300
1500	500
3500	1200

12. CDP CORRELATION TRIM STATICS
13. STACK (1200 %)
14. TIME VARIANT FILTER

TIME ZONE (SEC)	LOW CUTOFF (HZ/DB/OCT)	HIGH CUTOFF (HZ/DB/OCT)
0-1.0	24/60	90/90
1.1-2.0	20/60	70/90
2.1-5.0	20/60	50/90

15. RMS GAIN
    5 OVERLAPPING WINDOWS
    0- 400 MSEC
    200- 800 MSEC
    400-1200 MSEC
    1000-3000 MSEC
    2000-5000 MSEC
16. FILM AT 14 DB

SPREAD DIAGRAM
VP
GROUP INTERVAL - 30 METERS

LEGEND
VELOCITY FUNCTION
VELOCITY ANALYSIS
INTERSECTIONS

HORIZONTAL SCALE
48 TRACES PER INCH
1 KILOMETER
VERTICAL SCALE
3.75 INCHES PER SECOND

NOTATIONS
POLARITY CONVENTION

NEGATIVE POLARITY	
RECORDING	VELOCITY INCREASE - NEGATIVE NUMBER
PROCESSING	VELOCITY INCREASE - POSITIVE NUMBER
DISPLAY	NEGATIVE NUMBER - PEAK

WESTERN GEOPHYSICAL

PROCESSED BY: GROUP 3
APPROVED BY: J. L. B.

MISEN® VELAN® RMS®
REGISTERED TRADEMARK OF WESTERN GEOPHYSICAL COMPANY
REGISTERED TRADEMARK OF WESTERN GEOPHYSICAL COMPANY
REGISTERED TRADEMARK OF WESTERN GEOPHYSICAL COMPANY

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LINE NO. 7 2 X
PART NO. 1 OF 1
R.R. 10X