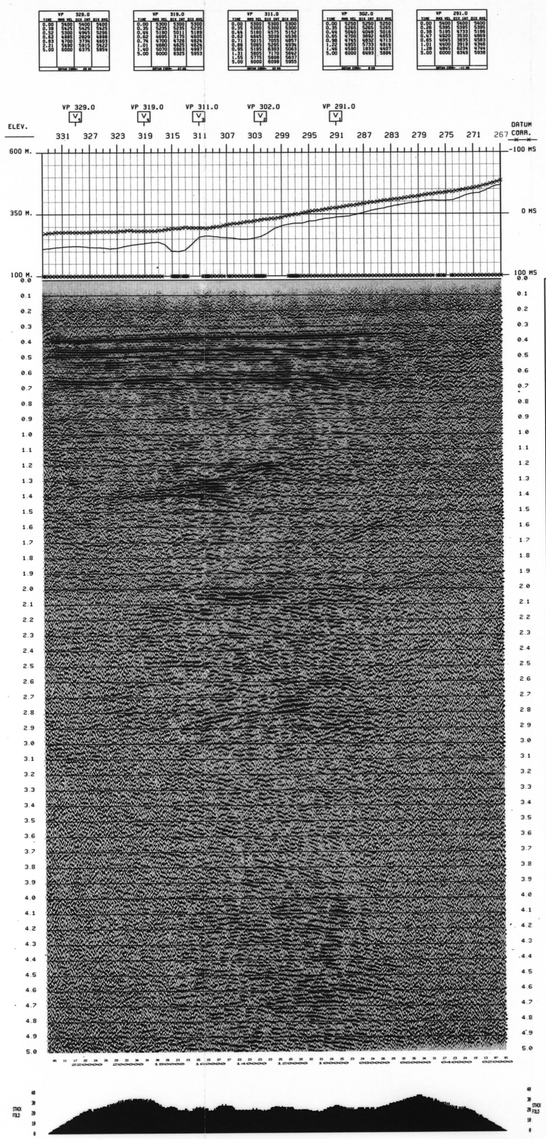

Canada Oil and Gas Lands Administration
Administration des droits pétroliers et gaziers du Canada
MAY 2 1985
Project #
Receipt
Dropped
Initials
EBEPB
9 229 528 34

PROSPECT : MAHONY LAKE
LINE : 112X EXTENSION
VPS. : 267-333+90
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 : 2400 %

RECORDING DATA

SOURCE

ENERGY SOURCE	VIBROSEIS
NUMBER OF SOURCES	4
SOURCE PATTERN	INLINE
SOURCE TO FIRST RECEIVER	90 METERS
NUMBER OF SWEEPS	2
PILOT SIGNAL	04-90 HZ.
SWEEP LENGTH	4 SECONDS
NOMINAL INTERVAL	60 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	2400 %
SPREAD	15GG-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. AUTOMATIC STATICS (MISER®)
   SURFACE CONSISTANT, 350-2000 MS. MODEL WINDOW
10. VELOCITY ANALYSIS (VELAN)
11. NMO CORRECTION
12. MUTE

DISTANCE (M)	TIME (MSEC)
400	0
800	250
1500	400
3000	800

13. CDP CORRELATION TRIM STATICS
14. STACK (2NDD %)
15. TIME VARIANT FILTER

TIME ZONE (SEC)	LOW CUTOFF (HZ/DB/OCT)	HIGH CUTOFF (HZ/DB/OCT)
0.0-1.0	20/60	70/90
1.1-2.0	20/60	70/90
2.1-5.0	20/60	50/90

16. RMS GAIN
    5 OVERLAPPING WINDOWS
    0- 400 MSEC
    200- 800 MSEC
    600-1600 MSEC
    1000-3000 MSEC
    2000-5000 MSEC
17. FILM AT 14 DB

SPREAD DIAGRAM

VP

GROUP INTERVAL - 30 METERS

LEGEND

VELOCITY FUNCTION
VELOCITY ANALYSIS
INTERSECTIONS

HORIZONTAL SCALE
40 TRACES PER INCH
0 - 1 KILOMETER
VERTICAL SCALE
3.75 INCHES PER SECOND

NOTATIONS
POLARITY CONVENTION
SEG STANDARD
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.R.

MISER® REGISTERED TRADEMARK OF WESTERN GEOPHYSICAL COMPANY
VELAN® REGISTERED TRADEMARK OF WESTERN GEOPHYSICAL COMPANY
RAP® REGISTERED TRADEMARK OF WESTERN GEOPHYSICAL COMPANY

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PROJ. NO. 9229-P28-3E
LINE NO. 112X
PART NO. 1 OF 1
R.R. 10X