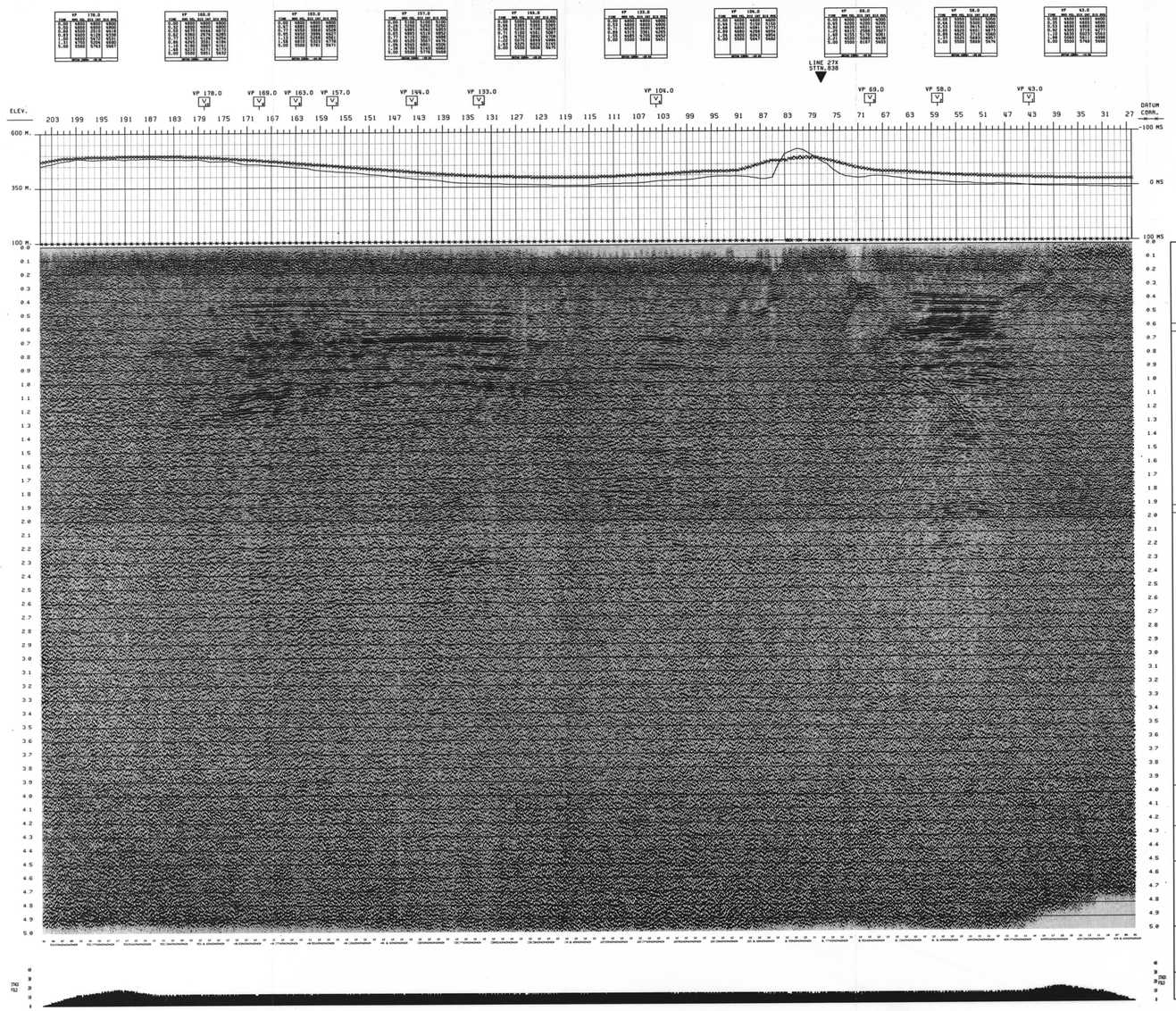

Canada Oil and Gas Lands Administration
Administration des sociétés et des terres du Canada
MAY 2 1985
Energy, Mines and Resources Canada
Énergie, Mines et Ressources Canada
FILE #

PROSPECT : MAHONY LAKE
LINE : 82X
VPS. : 26-204+90
PROCESS : CONVENTIONAL
POLARITY : NORMAL

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	50 METERS
NUMBER OF SWEEPS	6
PILOT SWEEP	24-80 HZ.
SWEEP LENGTH	4 SECONDS
NOMINAL INTERVAL	120 METERS

INSTRUMENTS

AMPLIFIER	DFS V-RODIT IV
FILTER	18-OUT
SAMPLING INTERVAL	2 MS.
RECORD LENGTH	9 SECONDS
TAPE FORMAT	SEG B-9S TRACE

CABLE

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

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
   24/24-125/90 HZ/DB/OCT
8. DECONVOLUTION BEFORE STACK
   2 MS. MINIMUM PREDICTION DISTANCE
   120 MS. MAXIMUM PREDICTION DISTANCE
   2 % WHITE LIGHT
9. F-K NOISE ATTENUATION
10. AUTOMATIC STATICS (MISEM®)
    SURFACE CONSISTANT, 950-2000 MS. MODEL WINDOW
11. VELOCITY ANALYSIS (VELAN)
12. NMO CORRECTION
13. MUTE

DISTANCE (M)	TIME (MSEC)
960	0
1560	100
3000	200
3000	400

14. CDP CORRELATION TRIM STATICS
15. STACK (1200 %)
16. 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

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

SPREAD DIAGRAM

VP

GROUP INTERVAL - 30 METERS

LEGEND

VELOCITY FUNCTION
VELOCITY ANALYSIS
INTERSECTIONS

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

NOTATIONS
POLARITY CONVENTION

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

WESTERN GEOPHYSICAL

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

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

Terra Surveys Inc.
2060 Walkley Rd
Ottawa, Ont.
Canada K1G 3P5
Tel: (613) 731-9571
Telex: 053-3502
Cable: TERRA

PROJ. NO. 9229-P28-3E

LINE NO. 82X

PART NO. 1 OF 1

R.R. 10X