

017001

HALF YEARLY EXPLORATION REPORT

1ST June, 1975 – 31st December, 1975

T/3P

(1975- Hematite)

**TPR
OR-034**

CONTENTS

Half yearly exploration Report 1st June, 1975 – 31st December 1975 – T/3P

Enclosures

OG 3833	Blue Brown Horizon (Velocity)
OG 3834	Blue Horizon (Depth)
OG 3835	Brown Horizon (Depth)
OR 3835	Brown Horizon (Depth) Base Belfast Mudstone (within Upper Cretaceous)
OR 3836	Blue Brown Horizon (Isopach)
HO4-12	Seismic Survey
HO4-50	Seismic Survey

TPR
OR-034

HEMATITE PETROLEUM PTY. LTD.
HALF YEARLY EXPLORATION REPORT
1ST JUNE, 1975 TO 31ST DECEMBER, 1975
T/3P

1. Drilling

No drilling was carried out during this period.

2. Geophysical Operations

Final processing of the HB75A Seismic Survey data was completed during this period and all final sections, scattergrams and segment overlays were received.

Some additional processing (migration) was carried out and reprocessing of some previous lines which were shot in the survey area.

3. Geological and Geophysical Activities

Final interpretation of the HB75A Seismic Survey was nearing completion during this period and the preparation of several mapped horizons (see previous report) is in hand.

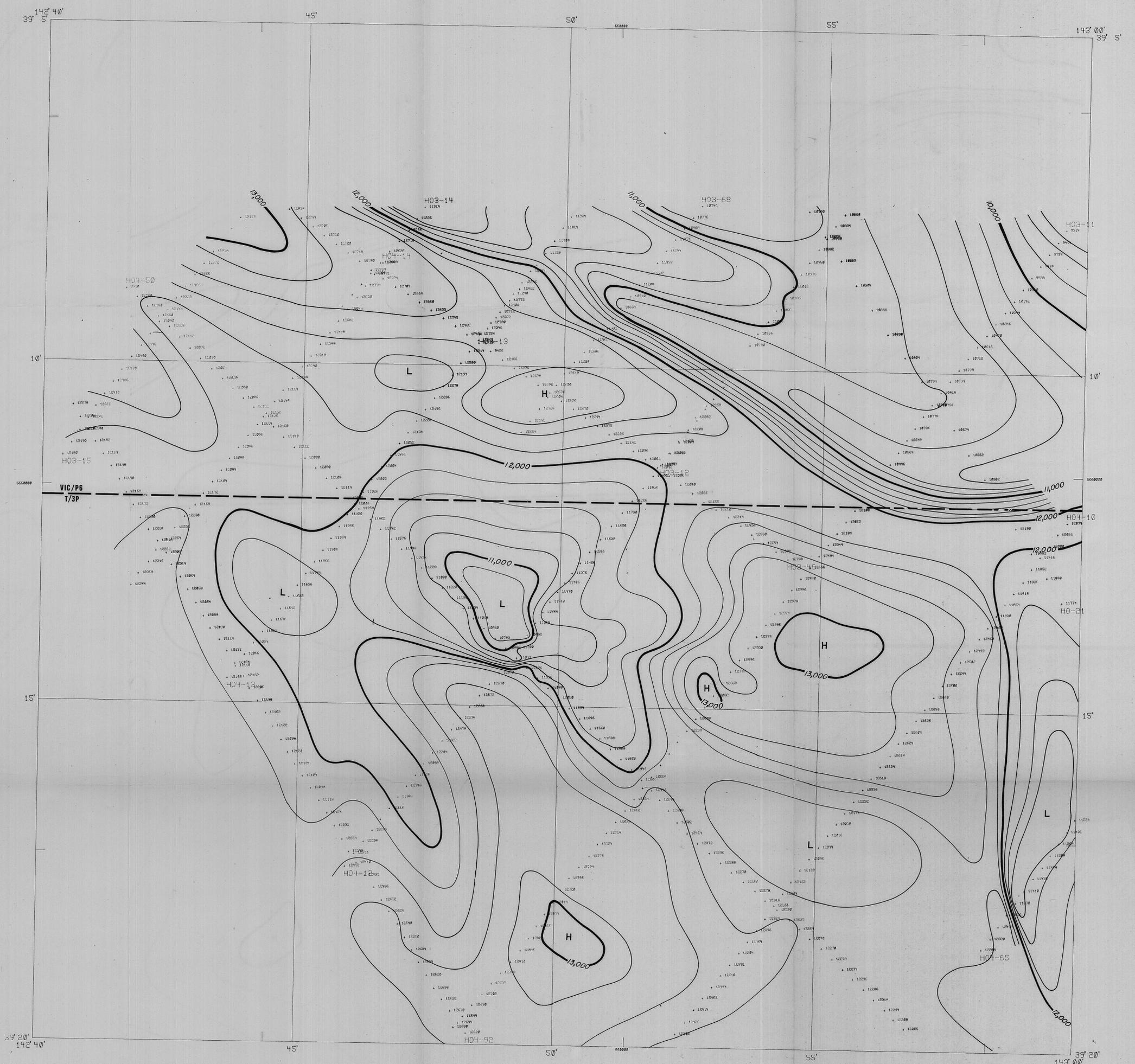
A number of small prospects in the Toolka-Cormorant area were mapped in detail at various levels within the upper Eastern View Coal Measures section. These are presently being prepared for final drafting.

Interpretation of the H04 Seismic Survey included mapping of a prospect in T/3P called Limpet. Copies of velocity, structure, and isopach maps (1:50,000) are included with this report.

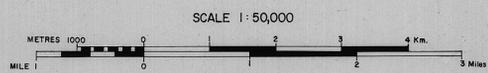
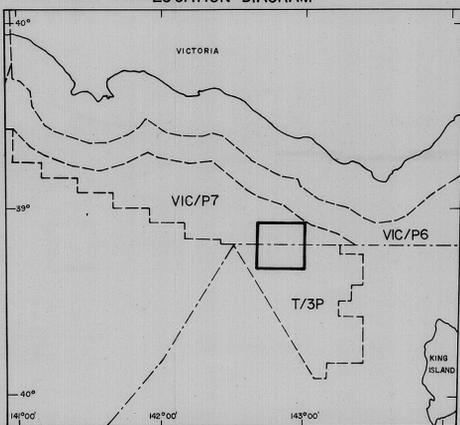
The mapped horizons correspond to:

"Blue" Horizon - Base of Tertiary.

"Brown" Horizon - Base of Belfast Mudstone
(at Prawn location)



LOCATION DIAGRAM



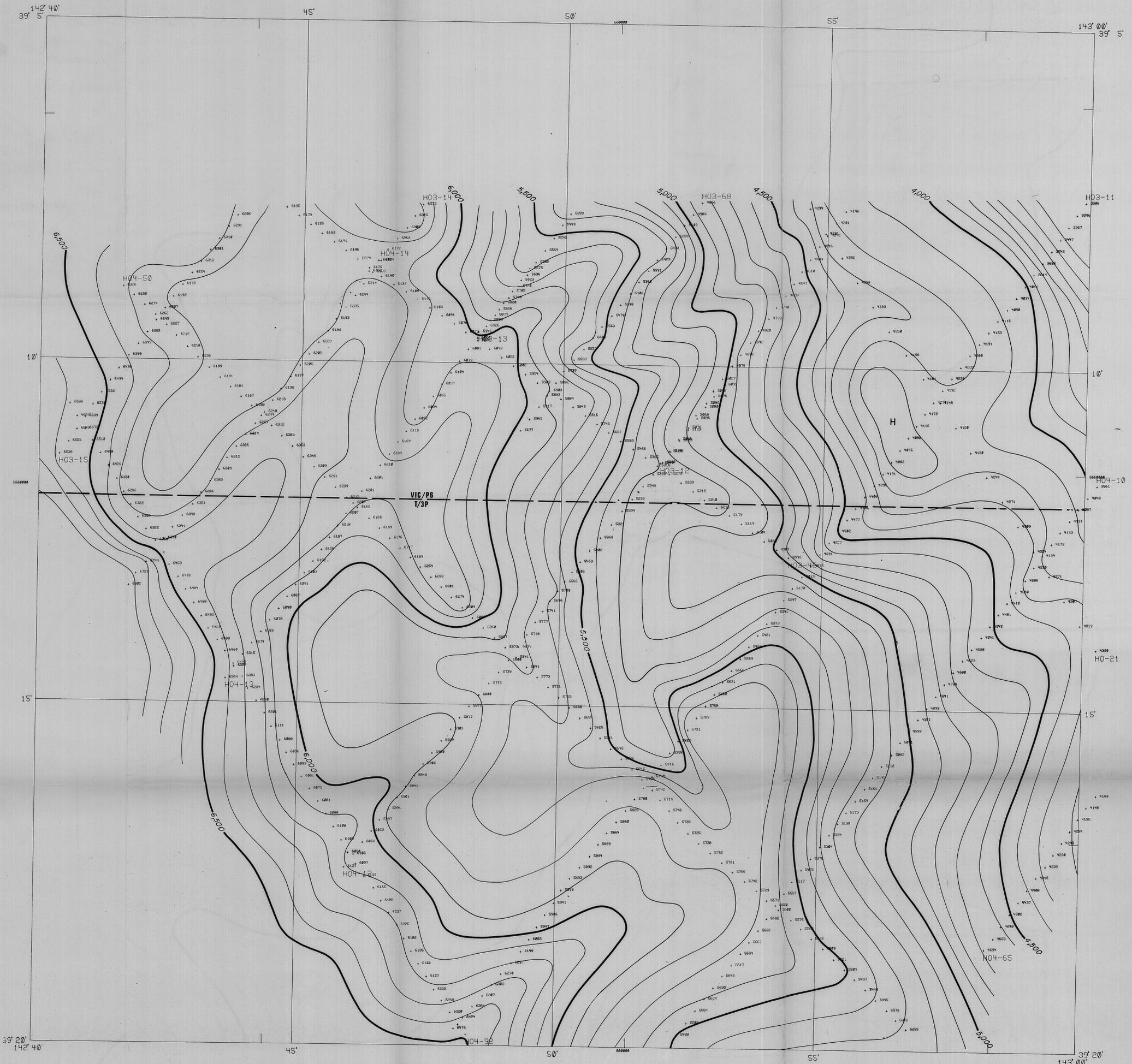
THE BROKEN HILL PROPRIETARY CO LTD
OIL AND GAS DIVISION
(HEMATITE PETROLEUM PROPRIETARY PTY LTD)
BASS BASIN

LIMPET PROSPECT
**BLUE BROWN HORIZON
(VELOCITY)**

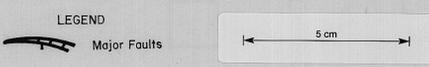
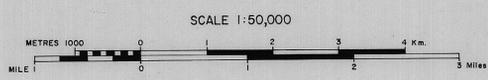
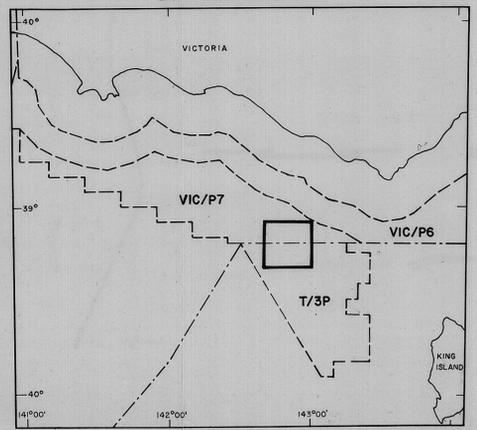
Contour Interval: 200 ft./s
Datum: Sea Level
Author: J. Denham
Date: September 1975

C17003A
OG 3833

OR-034



LOCATION DIAGRAM



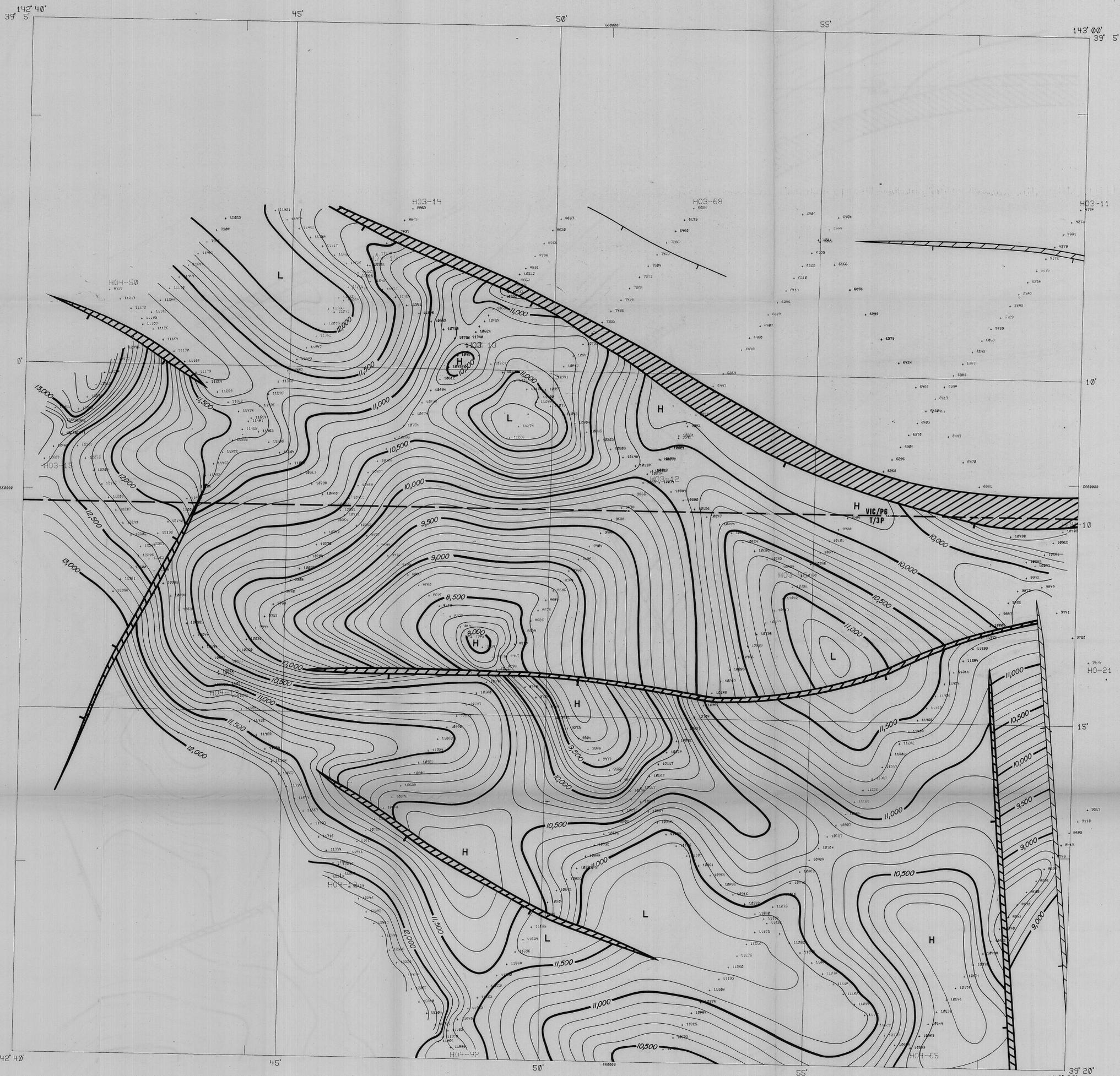
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OIL AND GAS DIVISION
(HEMATITE PETROLEUM PROPRIETARY PTY LTD)
BASS BASIN

LIMPET PROSPECT
**BLUE HORIZON
(DEPTH)**

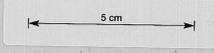
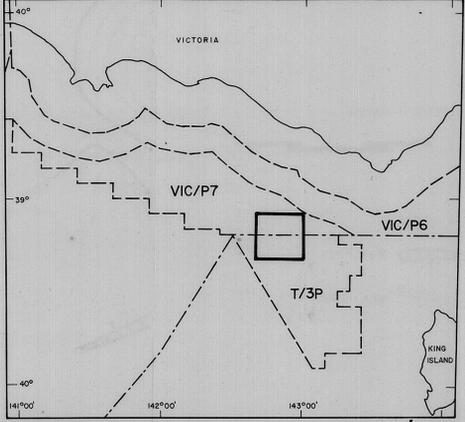
Contour Interval: 100 feet Author: J. Danham
Datum: Sea Level Date: September 1976

017004
OG 3834

DR-03A



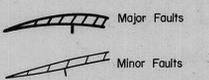
LOCATION DIAGRAM



SCALE 1:50,000



LEGEND



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LIMPET PROSPECT

**BROWN HORIZON
(DEPTH)**

017005

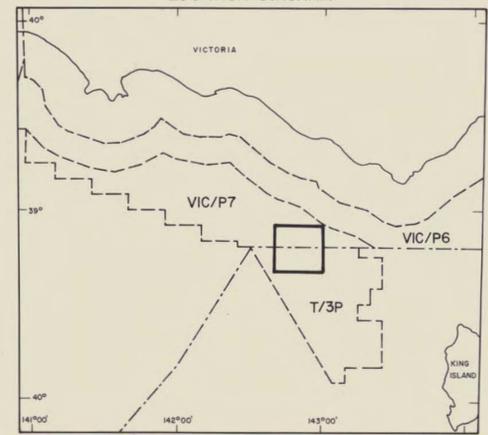
Contour Interval - 100 feet Author - J. Denham
Datum - Sea Level Date - September 1975

OG 3835

CR-034



LOCATION DIAGRAM



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BASS BASIN

LIMPET PROSPECT
BROWN HORIZON
(DEPTH)

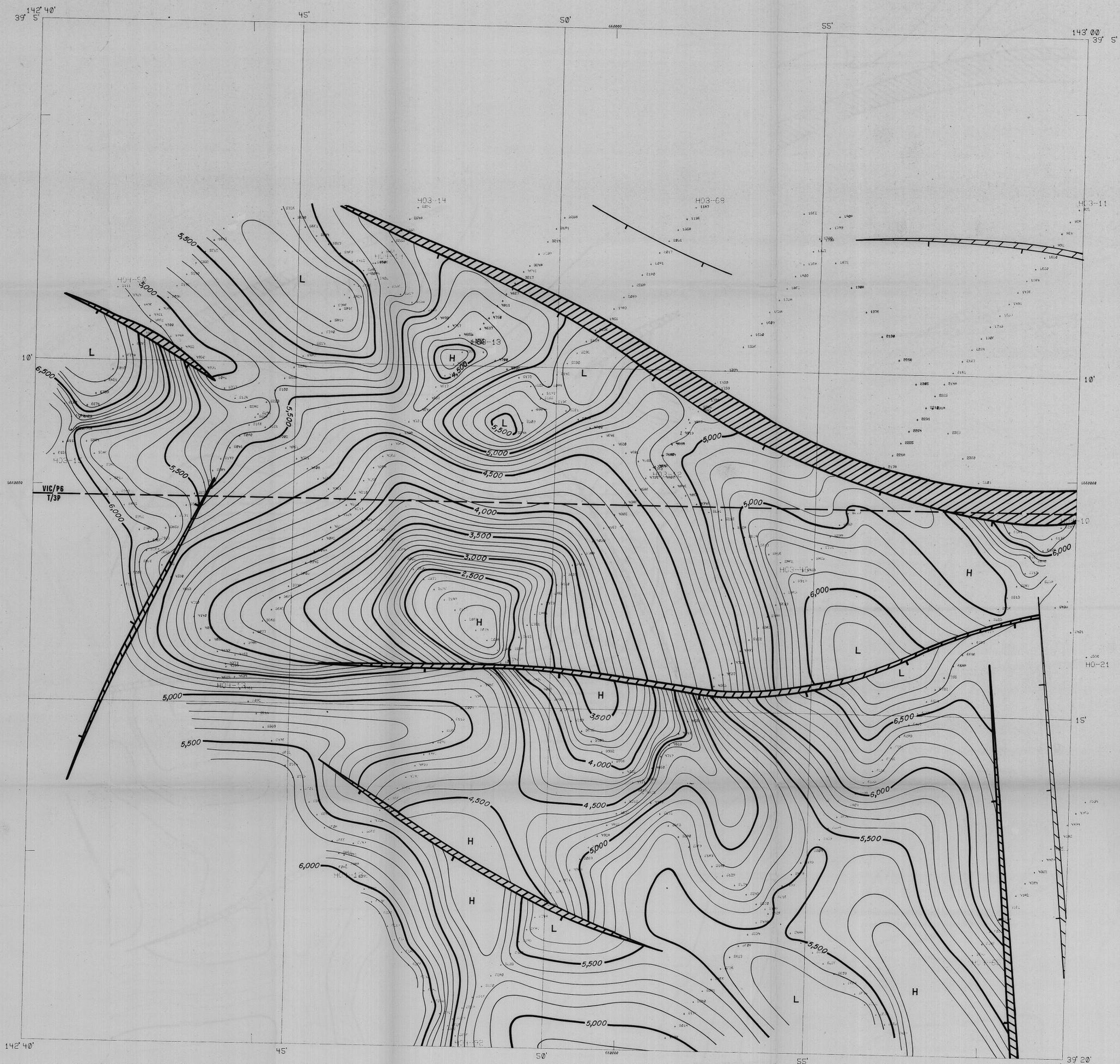
BASE BELFAST MUDSTONE
(Within Upper Cretaceous)

017006

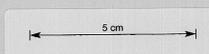
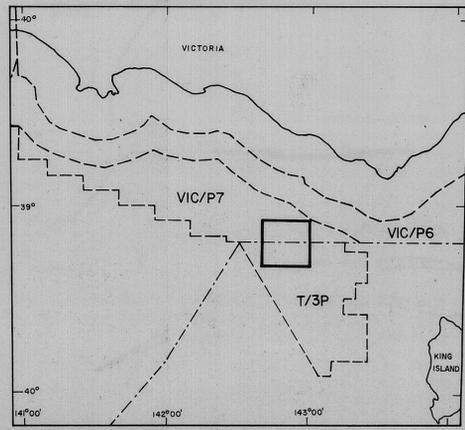
Contour Interval - 100 feet Author - J. Danham
Datum - Sea Level Date - September 1975

CR-034

OG 3835



LOCATION DIAGRAM



SCALE 1:50,000



LEGEND

-  Major Faults
-  Minor Faults

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BASS BASIN

LIMPET PROSPECT
BLUE BROWN HORIZON
(ISOPACH)

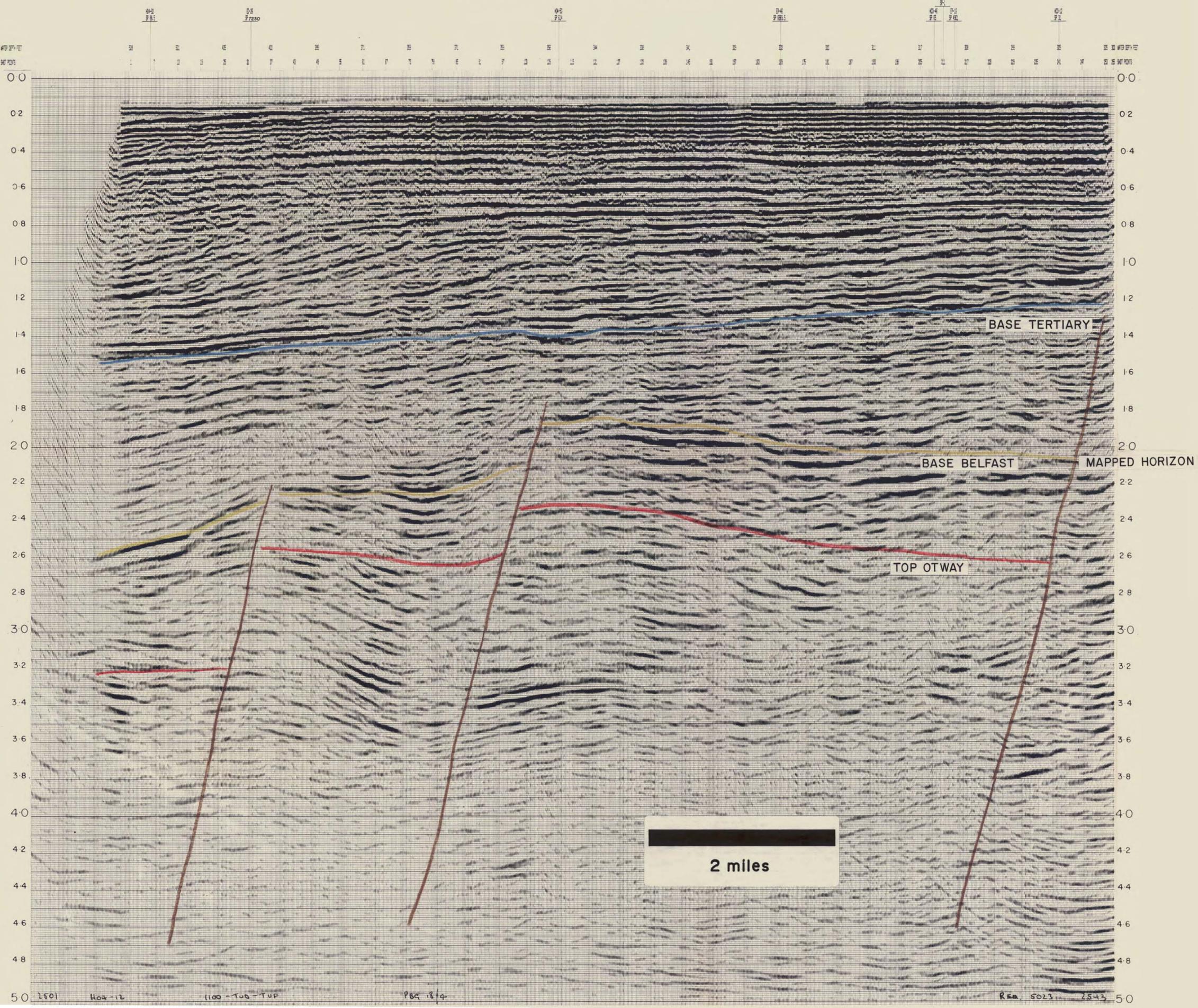
017007

Contour Interval: 100 feet Author: J. Denham
Datum: Sea Level Date: September 1975

CR-034

OG 3836

LIMPET PROSPECT



HEMATITE PETROLEUM PTY. LTD.

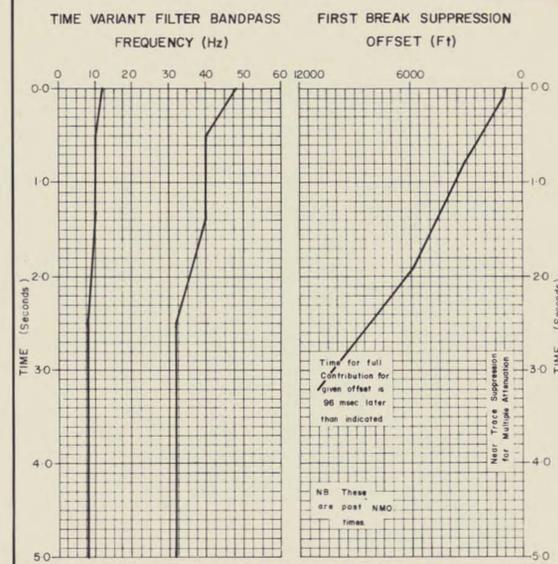
H04 SEISMIC SURVEY H04-12

FIELD DATA: Shot by GSI Party 931 MV McDermott
 Recorded: 48 Trace DFS III (2 Systems)
 Sample Rate: 4 msec. Record Length: 5 sec
 Filter: HI 62 Hz/72 db/oct, LO 8 Hz/18 db/oct.
 Gain: Binary
 Energy Source: Airgun, 1200 cub ins
 Source Depth: 30-35 ft Streamer Depth: 50-60 ft
 Group interval: 219 ft. Shot interval: 73 ft
 Streamer: 3200 m, 48 groups, towing group 48
 Average Offset to centre of group 48: 802 ft
 Date: NOV '74

LINE 2795
 DIAGRAM
 N
 255
 W E
 S
 Number in block
 number of end of line
 2866

PROCESSING INFORMATION:
 1 True Amplitude Recovery (-8.5 db/sec, 0-3.5) 2 Vertical Stack (2 on 1)
 3 Deconvolution Before Stack
 SP's 1 - 255 2 Operators/Trace, 64 pts. Gap = 0 msec.
 SP's - 2 Operators/Trace, 64 pts. Gap = 2nd Zero Crossings.
 SP's - Dewater.
 4 24 Fold Common Depthpoint Gather
 5 Sealevel Static and Airgun Delay Corrections
 6 Preliminary Normal Moveout Corrections
 7 Preliminary 24-Fold Stack, 24 Traces.
 8 Velocity Analysis:
 Continuous 700 Pkg using a 2 on 1 Sum of Adjacent Depth Points.
 9 Normal Moveout Corrections
 10 24 Fold CDP Stack, 24 Traces
 11 Migration Stack
 12 Deconvolution after Stack 2 op./Trace, 64 points. Gap = 0 msec.
 13 Time Variant Filter

14 Display Normal Polarity, 15 traces/cm. (0.53 miles/inch) Horizontal Scale
 3.75 ins./sec. Vertical Scale



PROCESSED BY: GEOPHYSICAL SERVICE
 INTERNATIONAL, SYDNEY.
 DATE SEPT. 1975

5 cm

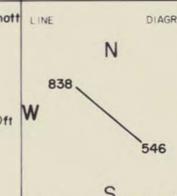
LIMPET PROSPECT

HEMATITE PETROLEUM PTY. LTD.

H04 SEISMIC SURVEY

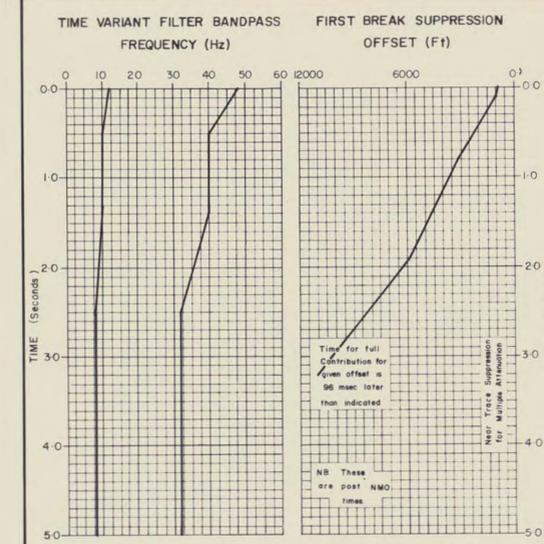
H04-50

FIELD DATA: Shot by: GSI Party 931 MV McDermott
 Recorded: 48 Trace DFS III (2 Systems)
 Sample Rate: 4 msec. Record Length: 5 sec.
 Filter: HI 62 Hz/72 db/oct, LO 8 Hz/18 db/oct.
 Gain: Binary
 Energy Source: Airgun, 1200 cub ins
 Source Depth: 30-35 ft Streamer Depth: 50-60ft
 Group interval: 219 ft. Shot interval: 73ft
 Streamer: 3200 m, 48 groups, towing group 48
 Average Offset to centre of group 48: 861 ft
 Date: DEC '74



PROCESSING INFORMATION:
 1 True Amplitude Recovery (-8.5 db/sec, 0-3.5) 2 Vertical Stack (2 on 1)
 3 Deconvolution Before Stack
 SP's 546 - 838 2 Operators/Trace, 64pts. Gap = 0 msec.
 SP's - 2 Operators/Trace, 64pts. Gap = 2nd Zero Crossings.
 SP's - Dewater.
 4 24 Fold Common Depthpoint Gather
 5 Sealevel Static and Airgun Delay Corrections
 6 Preliminary Normal Moveout Corrections
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14 Display Normal Polarity, 15 traces/cm. (0.53 miles/inch) Horizontal Scale
 3.75 ins/sec. Vertical Scale



PROCESSED BY: GEOPHYSICAL SERVICE
 INTERNATIONAL, SYDNEY.
 DATE SEPT. 1975

5 cm

