

**HALF YEARLY REPORTS
16th JULY, 1973 to 31st DECEMBER, 1973**

**PERMIT NO. 'S
T/3P, T/4P, T/5P, T/6P**

HEMATITE PETROLEUM PTY. LTD.

OR – 033

LIST OF MAPS**Aroo Prospect :**

Structure contour map of Red Horizon (1:50,000)
Structure contour map of Brown Horizon (1:50,000)
Structure contour map of Blue Horizon (1:50,000)

Toolka Prospect :

Structure contour map of Red Horizon (1:50,000)
Structure contour map of Yellow Horizon (1:50,000)

BASS BASIN - WATER DEPTH, Seismic and Hydrographic Chart Data

KING or J55.13

BASS or J55.14

WYNYARD or K55.2

CAPE BARREN or K55.3

OTWAY BASIN - WATER DEPTH

STOKES or K54.4

OTWAY BASIN - WATER DEPTH, Seismic and Hydrographic Chart Data

WICKHAM or J54.16

GIPPSLAND BASIN - WATER DEPTH, Seismic and Hydrographic Chart Data

FLINDERS or J55.15

TASMAN or J55.16

PARKINSON or K55.4

OTWAY & BASS BASINS - WATER DEPTH, Seismic and Hydrographic Chart Data

HUNTER or K55.1

HALF YEARLY EXPLORATION REPORT

16TH JULY, 1973 TO 31ST DECEMBER, 1973

TASMANIAN PERMIT NO. T/3P

(1) Drilling

No exploration drilling was done in the permit during the report period. The Well Completion Report for Konkon-1 was submitted on 19th October, 1973.

(2) Geophysical Operations

(a) A total of 191 miles of reflection seismograph data was recorded in Bass Basin during this period. This was part of the Flinders Seismic Survey which totalled 371 miles. G.S.I. conducted the survey using the vessel M/V "Eugene McDermott II". The survey commenced on 7th September, 1973 and was completed on 11th September, 1973. Digital recording instruments were used and the programme specified a 3200 metre, 48 trace streamer with 3 "airgun" pops per 66 $\frac{2}{3}$ metres. The data was processed in Sydney and Singapore by G.S.I.

(b) In the Otway Basin, Cape Nelson to Cape Otway Seismic Survey was completed during this period (22nd October, 1973). The total mileage for the entire survey was 1799 miles, of which 271 miles were in T/3P.

Processing by G.S.I. was begun during this period and by the end of it, prints of preliminary stacks had been received for most lines and prints of final stacks for about half of the lines. Velocity analyses had been completed on about half of the lines. In November, it was decided to alter the processing of some lines to use a 22 metre instead of 33 metre depth point spacing, to improve record quality.

(3) Interpretation

(a) Data from the B72A Seismic Survey and other available seismic and well data were incorporated in order to make updated structure contour maps. A regional map (1:100,000) on the "red horizon" was completed over the major part of T/3P.

Subsequent to the Flinders Seismic Survey, structural contour maps (1:50,000) on the "red" and "yellow" horizons were completed over the Toolka Prospect and on the "blue", "brown" and "red" horizons over the Aroo Prospect. The Toolka structure was interpreted to have an area of closure of 20 square miles with 250 feet of vertical relief.

- (b) Stratigraphic interpretation of the Tertiary section (mainly the prograded sequence) was attempted from the Portland-King Island Survey results in conjunction with the preliminary sections from the Cape Nelson to Cape Otway Survey. It was thought that using well control points in addition to the above surveys, a series of structural and isopachous maps could be constructed over the area, showing successive stages of progradations. However, the total grid coverage of the two surveys proved to be too wide to allow the effective mapping of the top or base of the prograded wedges. An added complication was found to be the poor correlation of events across channelling which is a common feature of the Tertiary section, especially in the western part of the survey.

Interpretations of the lower part (Sherbrook and Otway Groups) of the Cape Nelson to Cape Otway Survey results could not be attempted at this time because of the lack of quality refinement on the preliminary stacks.

Enclosed with this report are copies of the following:-

Bathymetric maps for the 1:250,000 sheet areas of Bass, King, Wickham.

Aroo Prospect :

Structure contour map of Red Horizon	(1:50,000)
Structure contour map of Brown Horizon	(1:50,000)
Structure contour map of Blue Horizon	(1:50,000)

Toolka Prospect :

Structure contour map of Red Horizon	(1:50,000)
Structure contour map of Yellow Horizon	(1:50,000)

U. M.

IM:MEC
30/1/74

OTWAY/KING PART-X*

HEMATITE PETROLEUM PTY. LTD.HALF YEARLY EXPLORATION REPORT16TH JULY, 1973 TO 31ST DECEMBER, 1973TASMANIAN PERMIT NO. PT/4P(1) Drilling

No exploration drilling was done in the permit during the report period.

(2) Geophysical Operations

There were 180 miles of reflection seismograph data recorded in the permit during this period. This was part of the Flinders Seismic Survey which totalled 371 miles. G.S.I. conducted the survey using the vessel M/V. "Eugene McDermott II". The survey commenced on 7th September, 1973 and was completed on 11th September, 1973. An extension (included in the above total) of 59 miles was conducted in this permit area on the 9th and 10th November, 1973.

Digital recording instruments were used and the programme specified a 3200 metre cable, 48 trace streamer with 3 "airgun" pops per $66\frac{2}{3}$ metres. The data was processed in Sydney and Singapore by G.S.I.

(3) Interpretation

Structural contour maps (1:50,000) on the "red" and "yellow" horizons were completed over the Paipan lead in the permit, analysis of which led to the extension of the Flinders Seismic Survey over the area.

Subsequent to the Flinders Seismic Survey structural contour maps (1:50,000) on the "red" and "yellow" horizons were completed over the Jerra Jerra lead in the permit.

Seismic markers were related to the bore hole data from Dondu-1 and Yurongi-1. The depths of these markers were adjusted using velocity control from the well sections, and key maps and cross-sections were updated. These revised maps were included with the well completion reports.

Enclosed with this report are copies of the following:-

Bathymetric maps (1:250,000 scale) of the Tasman, Flinders, Bass, Wynyard, Cape Barren, Parkinson sheets.

U.M.

IM:MEC
30/1/74

HEMATITE PETROLEUM PTY. LTD.HALF YEARLY EXPLORATION REPORT16TH JULY, 1973 TO 31ST DECEMBER, 1973TASMANIAN PERMIT NO. PT/5P(1) Drilling

Narimba-1 was spudded on 31st August, 1973 and abandoned as a dry hole on 4th October, 1973 after reaching a total depth of 11,003 feet. No hydrocarbon shows were reported and subsequent electric log interpretation indicates that no hydrocarbon bearing zones were penetrated.

(2) Geophysical Operations

There were no new field surveys nor data processing done during the six month period.

(3) Geophysical Interpretation

Seismic markers in the vicinity of the Narimba well were tied in to the well, using the well velocity survey data.

Enclosed with this report are copies of the following:-

Bathymetric maps (1:250,000 scale) of the Stokes, Wynyard, Hunter sheets.

↑
OTWAY

HEMATITE PETROLEUM PTY. LTD.HALF YEARLY EXPLORATION REPORT16TH JULY, 1973 TO 31ST DECEMBER, 1973TASMANIAN PERMIT NO. T/6P(1) Drilling

There were no wells drilled during the six month period.

(2) Geophysical Operations

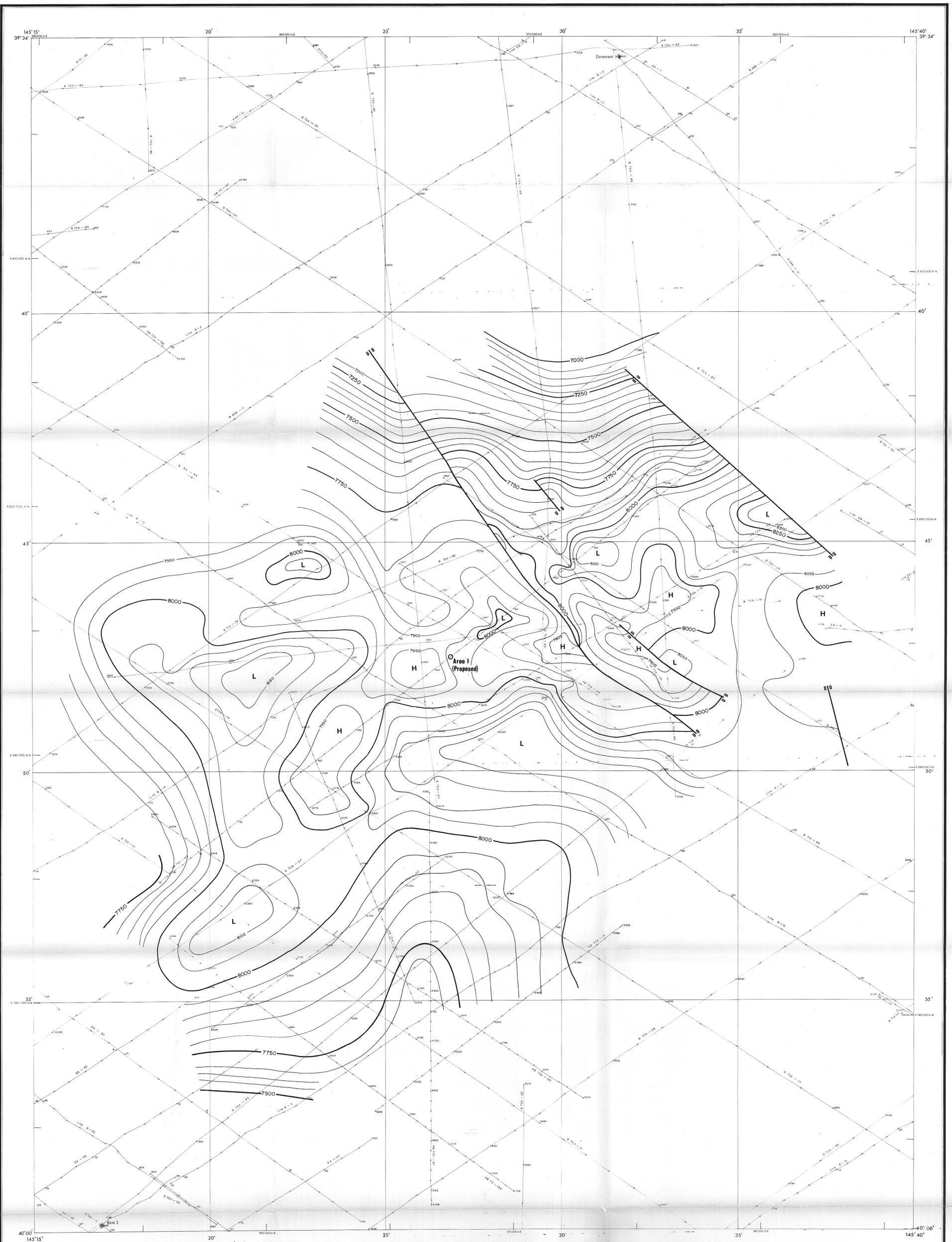
No seismic surveys nor data processing were carried out during the period.

(3) Geophysical Interpretation

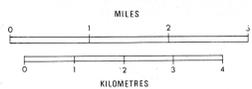
Further seismic interpretation on the Pelican trend is being done, utilizing the velocity data and other information from Narimba-1 in the adjacent permit (T/5P).

Enclosed with this report are copies of the following:-

Bathymetric maps (1:250,000) of the Parkinson, Cape Barren, Wynyard sheets.



Scale 1: 50 000



Compiled by Hematite Petroleum Pty Ltd
Projection UTM Zone 55 CM 142°E

LEGEND

- Oil Well
- Gas Well
- ⊛ Oil & Gas Well
- Oil show
- ⊛ Gas show
- ⊛ Oil & Gas shows
- Drilling
- ⊛ Dry hole (Abandoned)

HEMATITE PETROLEUM PTY. LTD
BASS BASIN

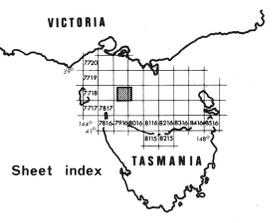
ARO PROSPECT

RED HORIZON

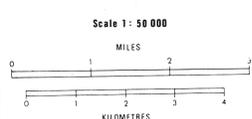
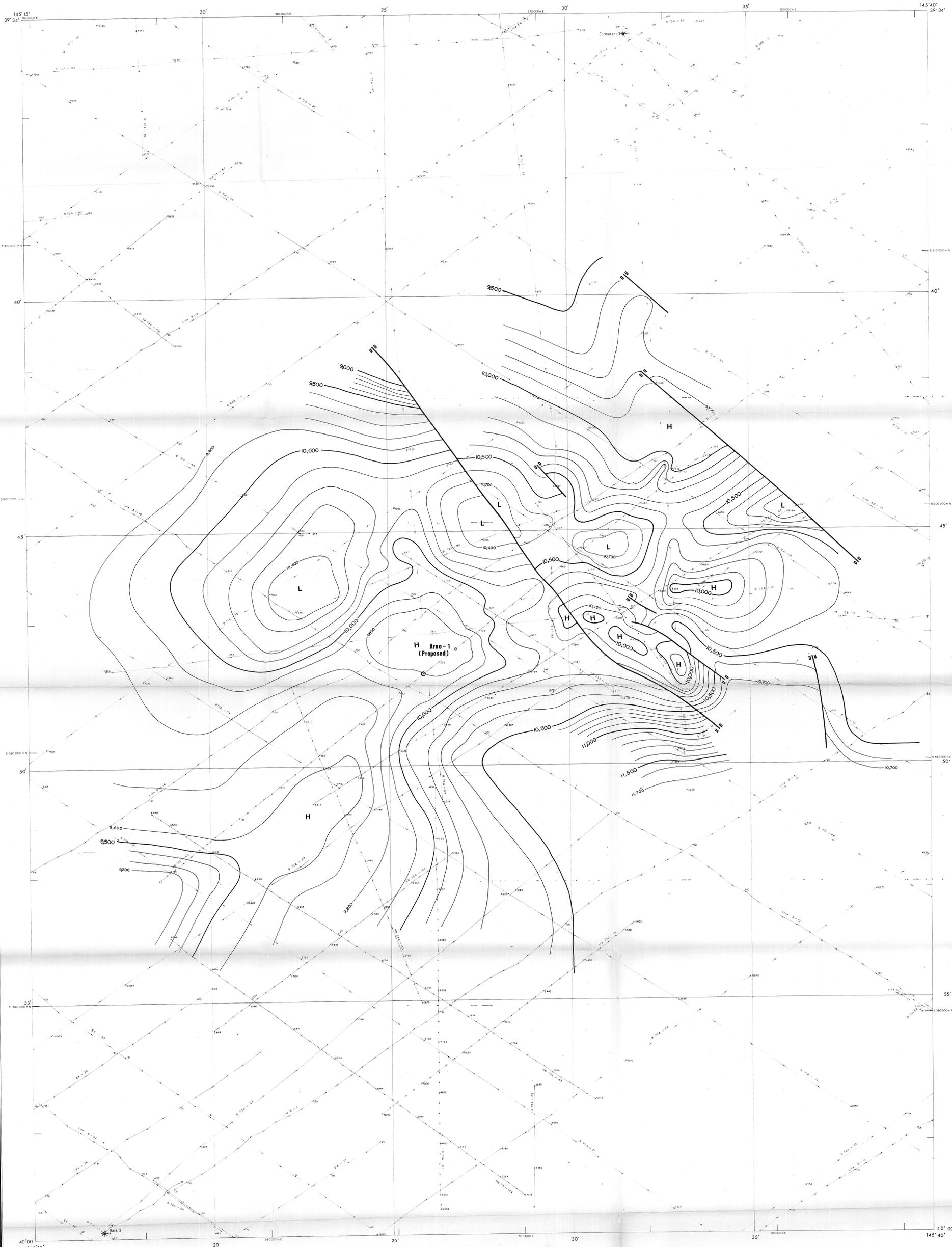
Contours in feet below sea level Contour Interval 50 feet
Author E Urschel Date November 1973



06400S



Sheet index



Compiled by Hematite Petroleum Pty Ltd
 Projection UTM Zone 55 CM 142°E

- LEGEND**
- Oil Well
 - * Gas Well
 - * Oil & Gas Well
 - Oil show
 - Gas show
 - * Oil & Gas shows
 - Drilling
 - Dry hole (Abandoned)

HEMATITE PETROLEUM PTY. LTD.
 BASS BASIN

AROO PROSPECT

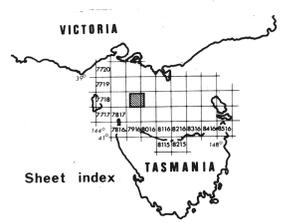
BROWN HORIZON

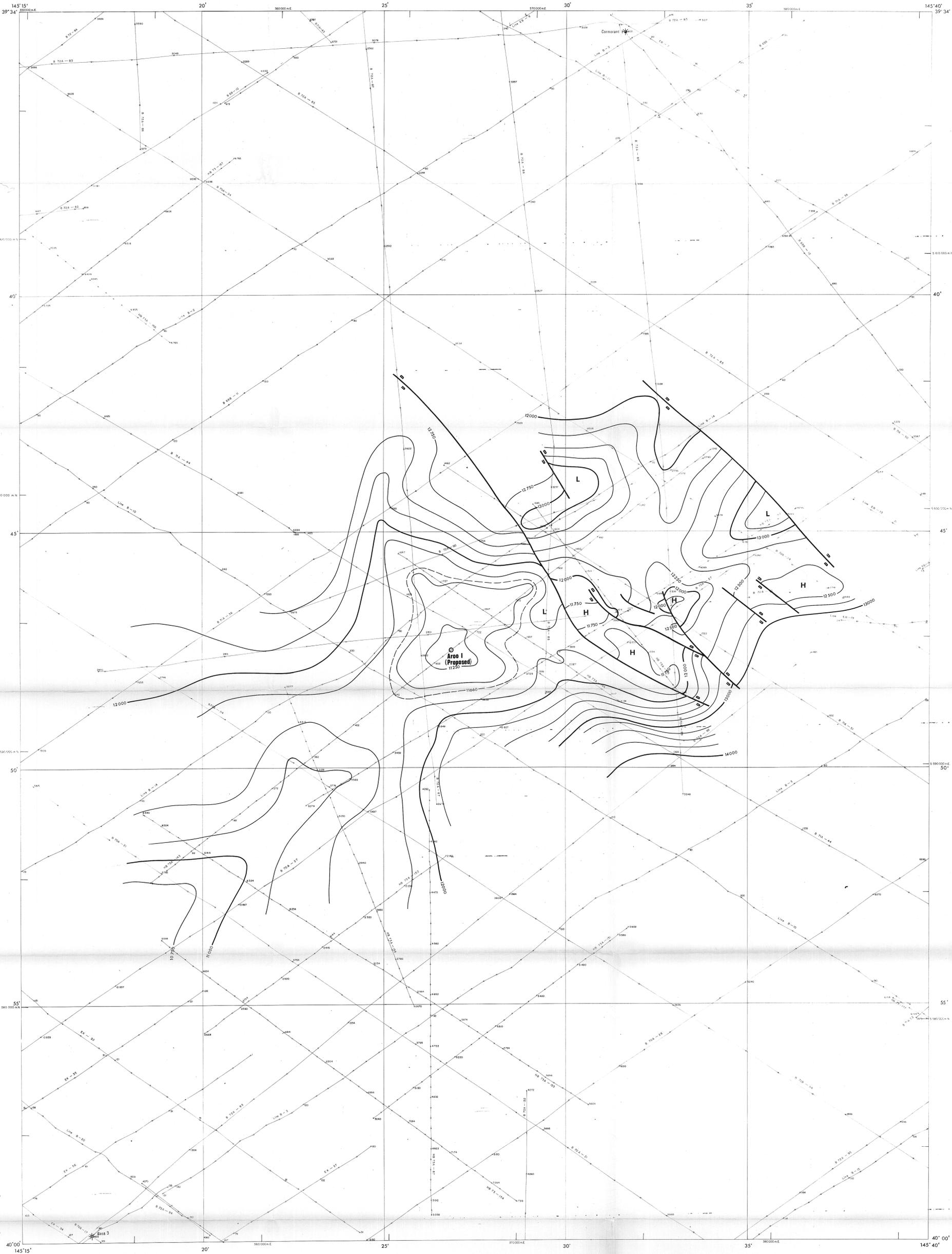
Contours in feet below sea level Contour Interval 100 feet
 Author: E. Urschel Date: November 1973



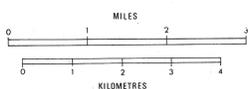
06409

OR-033
 06 3257





Scale 1 : 50 000



Compiled by Hematite Petroleum Pty Ltd
Projection UTM Zone 55 G.M. 147°E

- LEGEND**
- Oil Well
 - Gas Well
 - ⊙ Oil & Gas Well
 - ⊕ Oil show
 - ⊖ Gas show
 - ⊗ Oil & Gas shows
 - Drilling
 - ⊘ Dry hole (Abandoned)

HEMATITE PETROLEUM PTY. LTD.
BASS BASIN
ARDO PROSPECT

BLUE HORIZON

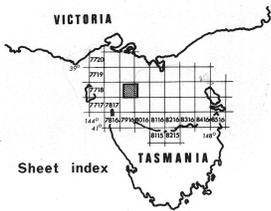
Contour interval: 250 feet Datum: Sea level
Authors: J. Denham, M. McNeil, E. Urschel Date: November 1973

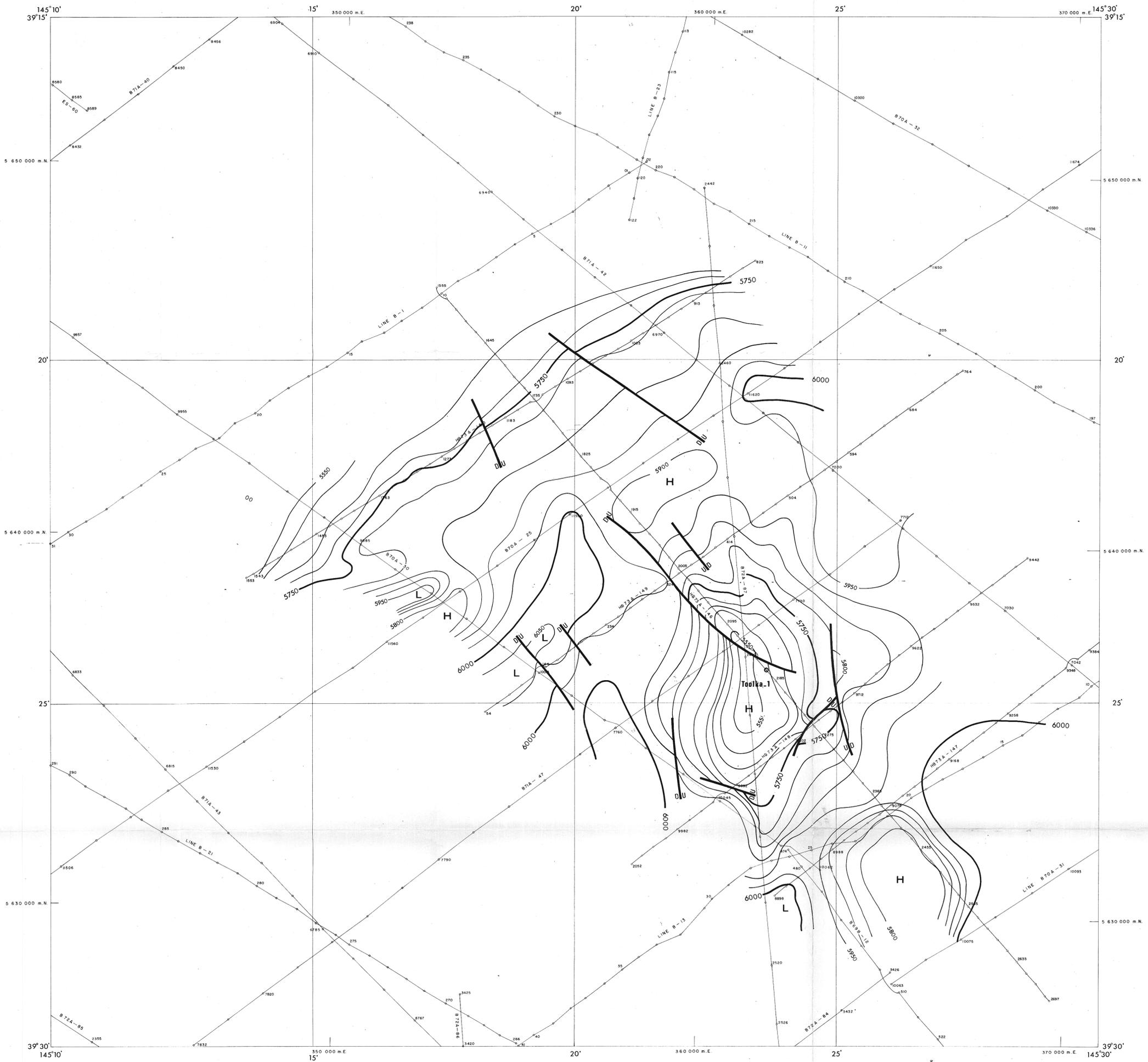


064010

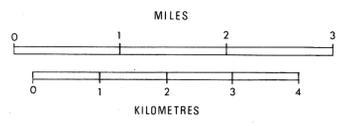
OR-033

06 3254

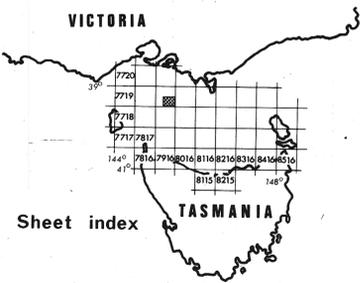




Scale 1: 50,000



Compiled by Hematite Petroleum Pty. Ltd.
Projection: UTM Zone 55 C.M. 147°E



LEGEND

- Oil Well
- ✱ Gas Well
- ✱ Oil & Gas Well
- Oil show
- ✱ Gas show
- ✱ Oil & Gas shows
- Drilling
- ⊘ Dry hole (Abandoned)

064011

HEMATITE PETROLEUM PTY. LTD.
BASS BASIN

TOOLKA PROSPECT

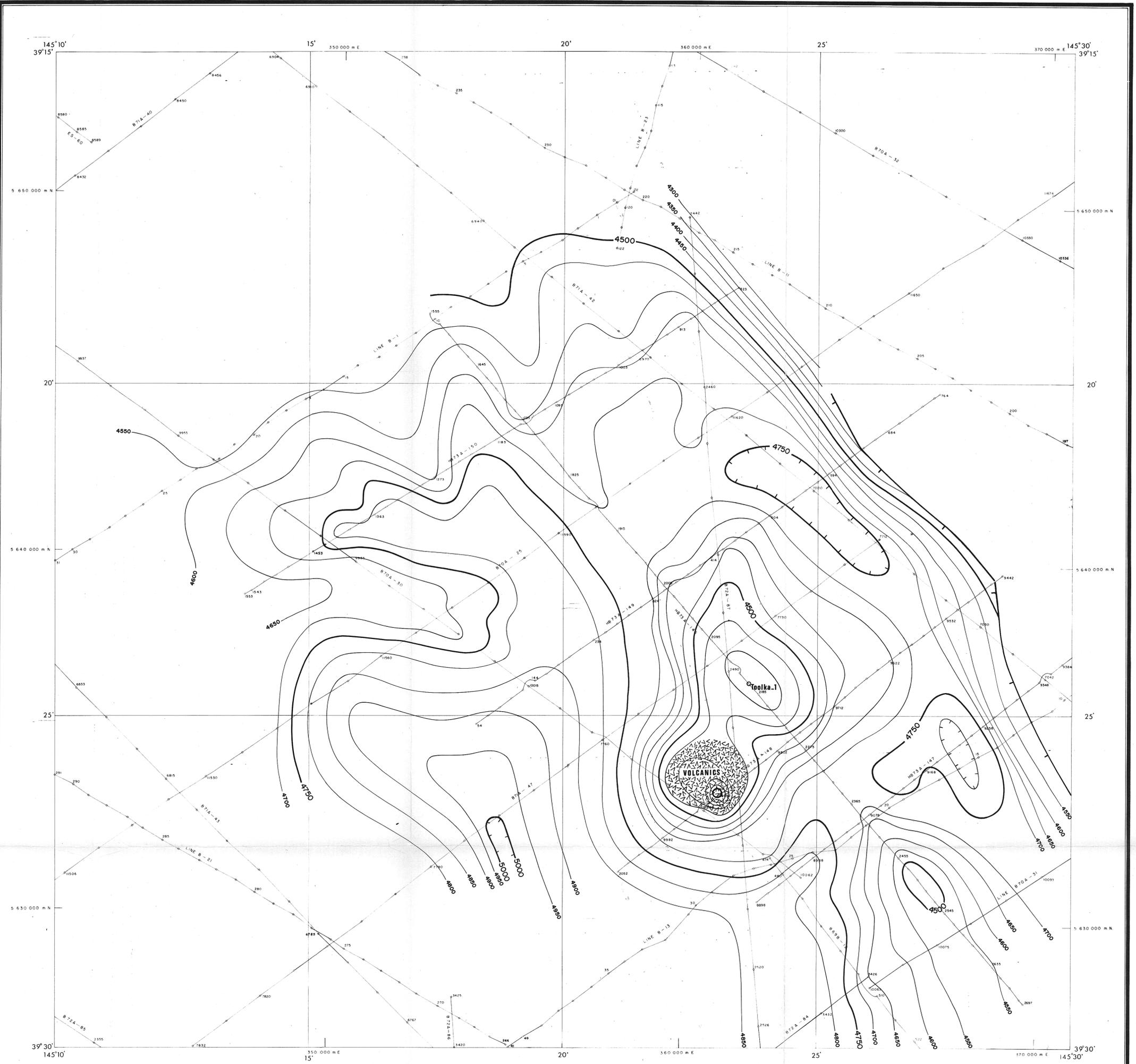
5 cm

RED HORIZON

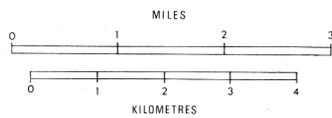
Contours in feet below sea level Contour interval: 50 ft

Author: M. McNicol Date: November 1973

OR-033
063258



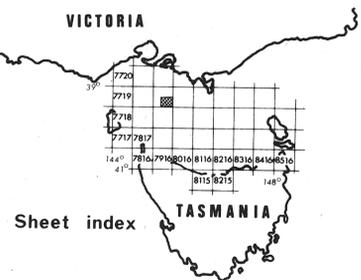
Scale 1 : 50,000



Compiled by Hematite Petroleum Pty Ltd.
Projection: UTM Zone 55 CM 142°E

LEGEND

- --- Oil Well
- ☆ --- Gas Well
- ✱ --- Oil & Gas Well
- --- Oil show
- ☆ --- Gas show
- ✱ --- Oil & Gas shows
- --- Drilling
- ∅ --- Dry hole (Abandoned)



Sheet index

HEMATITE PETROLEUM PTY. LTD.
BASS BASIN

TOOLKA PROSPECT



YELLOW HORIZON

064012

Contours in feet below sea level. Contour interval 50' feet

Author: J. Denham Date: November 1973

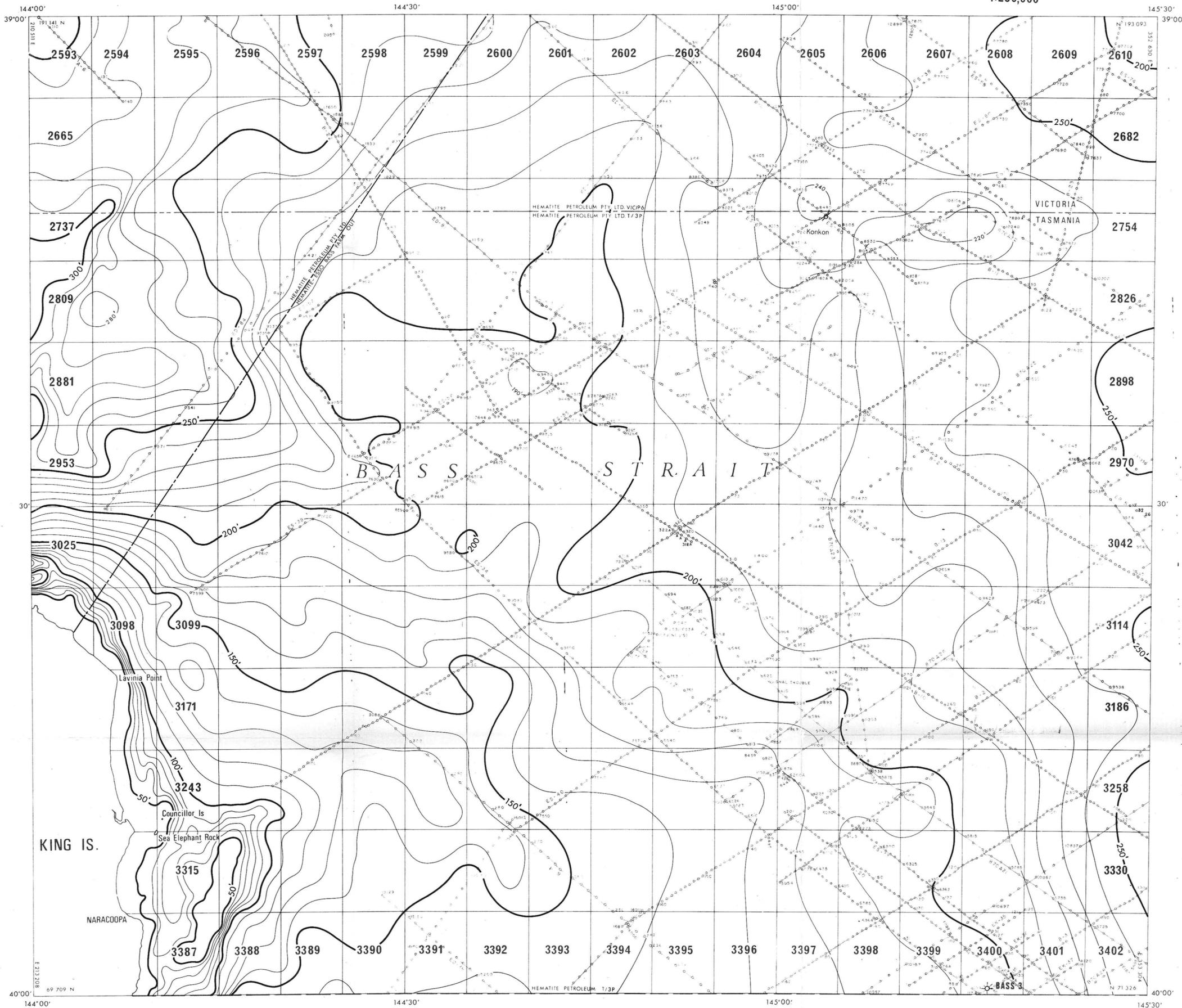
OR-033
06 3256

OTWAY/KINGS PART 2*

5.

KING

1:250,000



Scale 1:250,000

MILES

KILOMETRES

5 cm



INDEX TO ADJOINING SHEETS

COLAC	QUEENSLIFF	WARRAGUL
WICKHAM	KING	BASS
STOKES	HUNTER	WYNARD

Compiled by the Exploration Drawing Office of Hematite Petroleum Pty Ltd in conformity with and as an extension to the topographic series prepared by the Royal Australian Survey Corps and the Division of National Mapping. This plan is drawn according to the zone numerical system and therefore disregards irregularly placed sheets. Transverse Mercator Projection.

The five minute Graticular Sections are shown thus 1777
 They are designated by:
 1 The name of the Map Sheet 1:1000,000 series
 2 The block number
 3 The Longitude and Latitude of the North West corner
 eg MELBOURNE 1777 Long 148 00' E Lat 38 00' S

Reference Petroleum (Submerged Lands) Act 1967 68 of the Commonwealth of Australia
 Petroleum (Submerged Lands) Act 1967 68 of the State concerned

LEGEND

- Oil
- ☆ Gas
- ★ Oil & Gas
- Oil show
- ☆ Gas show
- ★ Oil & Gas shows
- Drilling
- Dry hole (Abandoned)

HEMATITE PETROLEUM PTY. LTD.

BASS BASIN

WATER DEPTH

SEISMIC AND HYDROGRAPHIC CHART DATA

Interpretation by G. Hosking

Contours in feet below Sea Level

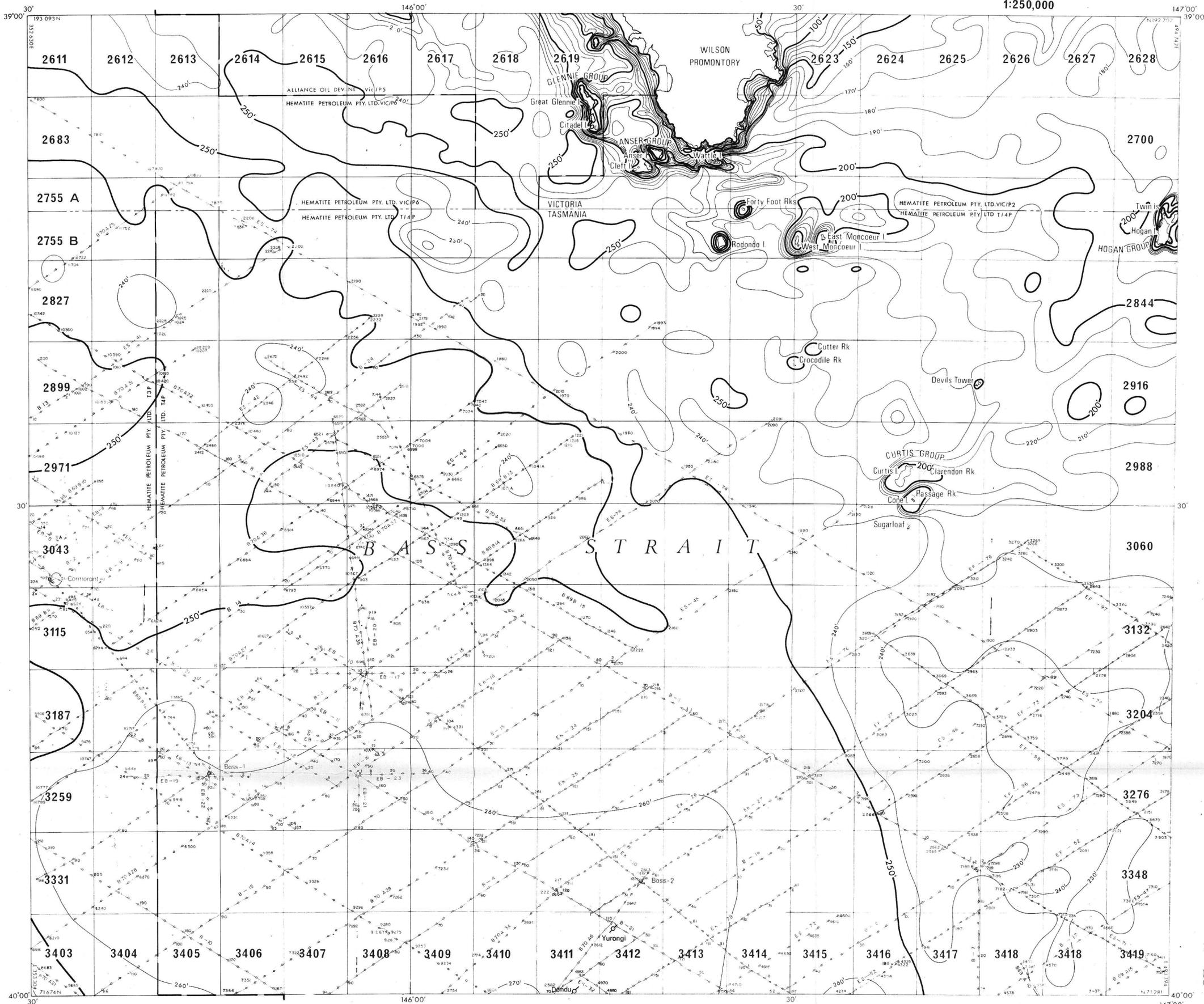
Date: January 1972

064013

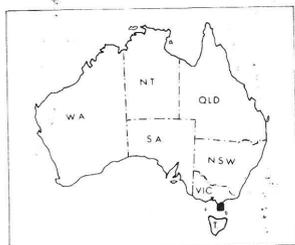
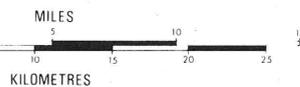
KING or J55-13

BASS

1:250,000



Scale 1:250,000



HEMATITE PETROLEUM PTY. LTD.

BASS BASIN

WATER DEPTH



Interpretation by G. Hosking
Contours in feet below Sea level
Date: January 1972

064014

BASS or J55-14

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e.g. MELBOURNE 1777 Long 148° 00' E. Lat 38° 00' S

Reference: Petroleum (Submerged Lands) Act 1967 68 of the Commonwealth of Australia
Petroleum (Submerged Lands) Act 1967 68 of the State concerned

LEGEND

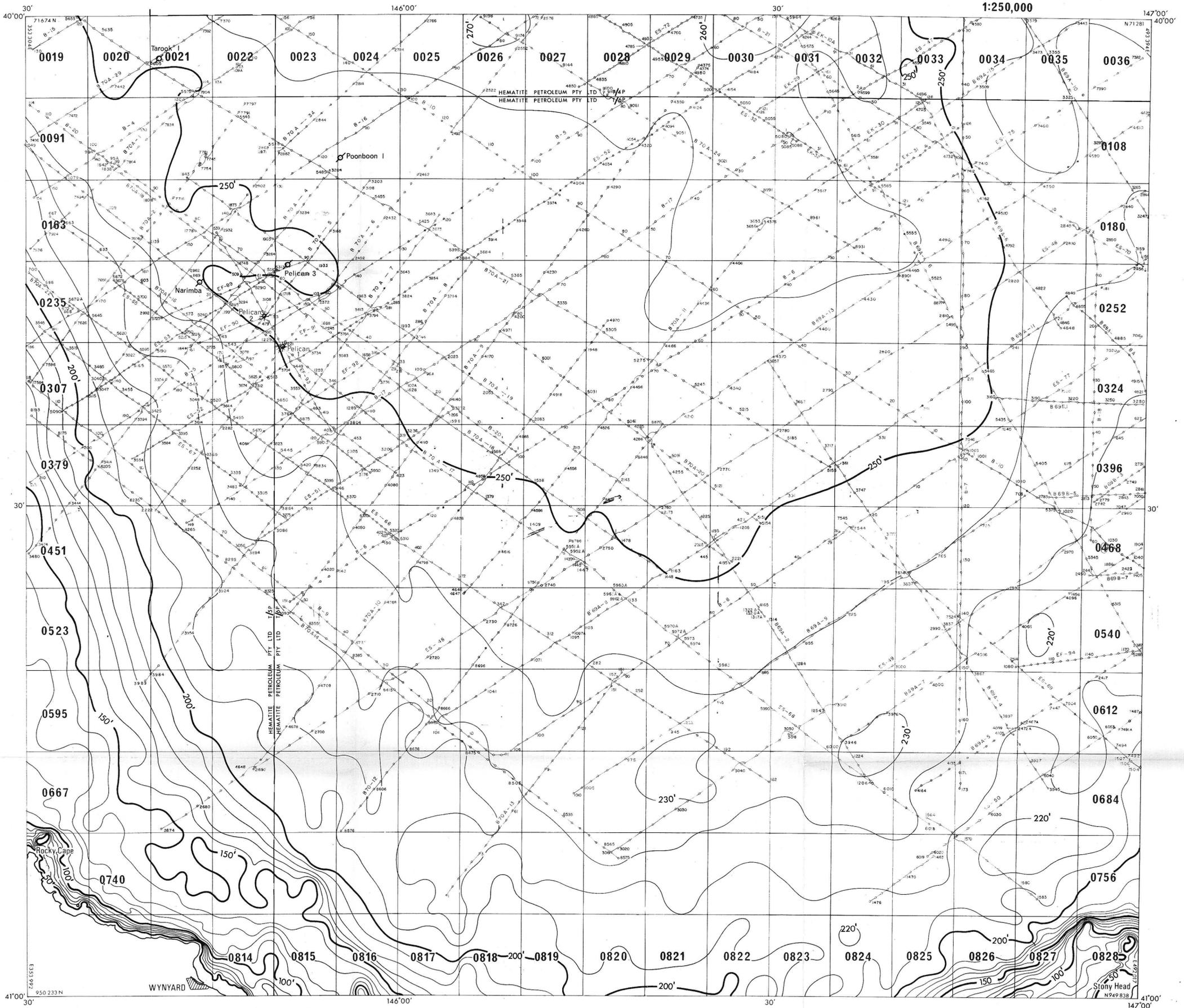
- Oil
- ⊛ Gas
- ⊛ Oil & Gas
- Oil show
- ⊛ Gas show
- ⊛ Oil & Gas shows
- Drilling
- Dry hole (Abandoned)

INDEX TO ADJOINING SHEETS

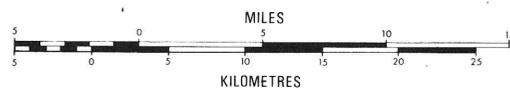
QUEENSLAND	WARRAGUL	SALE
KING	BASS	FLINDERS
HUNTER	WYNARD	CAPE BARRÉN

WYNYARD

1:250,000



Scale 1:250,000



064015

HEMATITE PETROLEUM PTY. LTD.

BASS BASIN

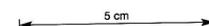
WATER DEPTH

SEISMIC AND HYDROGRAPHIC CHART DATA

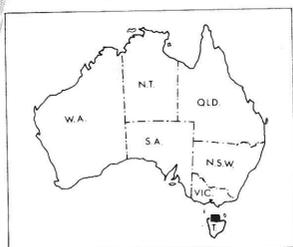
Interpretation by G. Hosking

Contours in feet below Sea Level

Date: June 1973



WYNYARD or K55-2



INDEX TO ADJOINING SHEETS

KING	BASS	FLINDERS
HUNTER	WYNYARD	CAPE BARREN
SMITHTON	DEVONPORT/LAUNCESTON	

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Transverse Mercator Projection.

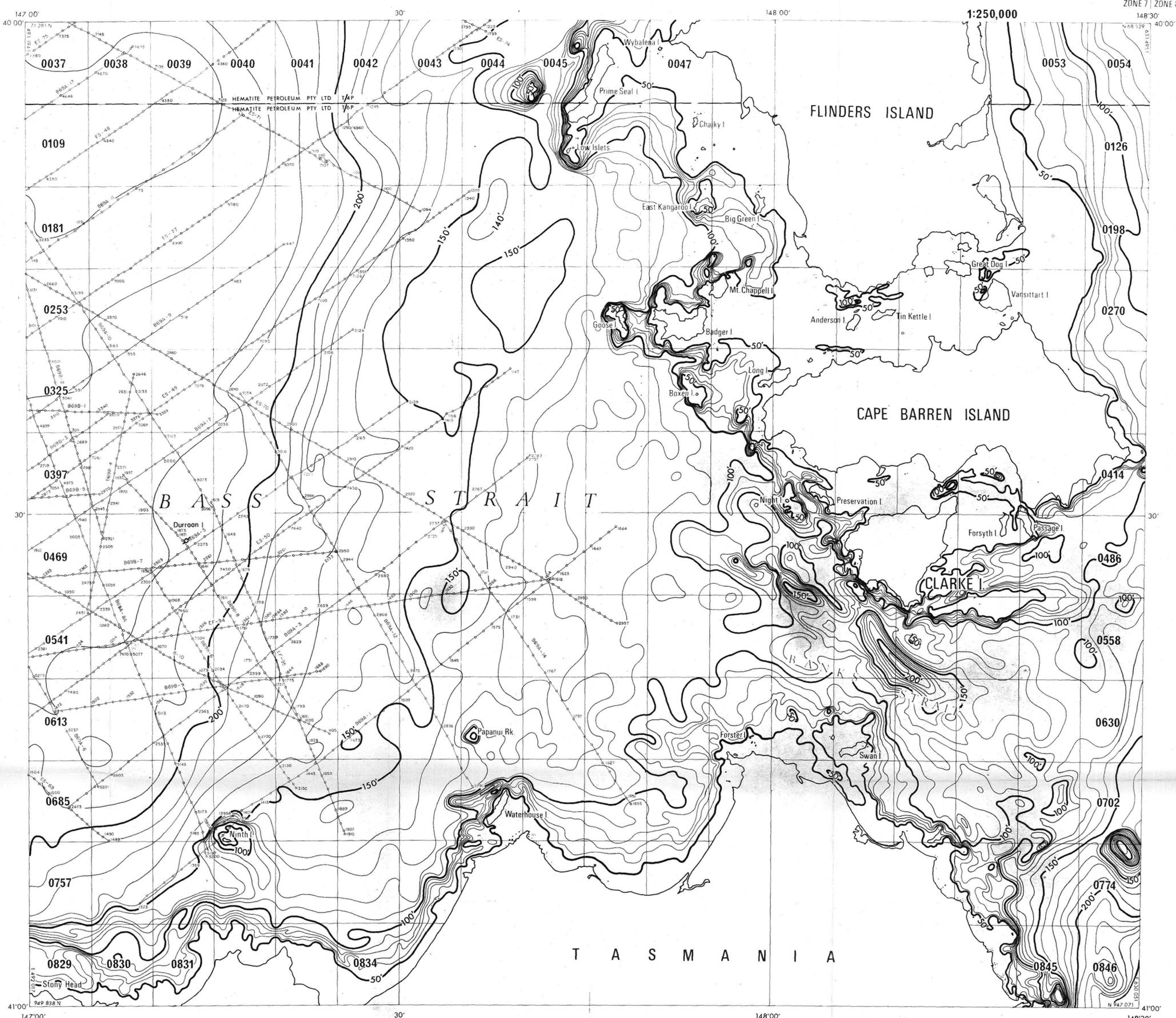
The five minute Graticular Sections are shown thus 1777
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2. The block number.
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e.g. MELBOURNE 1777 Long. 148° 00' E. Lat. 38° 00' S.

Reference: Petroleum (Submerged Lands) Act 1967 68 of the Commonwealth of Australia.
Petroleum (Submerged Lands) Act 1967 68 of the State concerned.

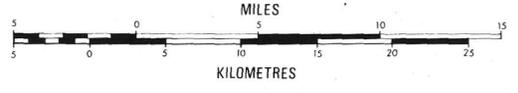
LEGEND

- ----- Oil
- ★ ----- Gas
- ★ ----- Oil & Gas
- ----- Oil show
- ★ ----- Gas show
- ★ ----- Oil & Gas shows
- ----- Drilling
- ----- Dry hole (Abandoned)

CAPE BARREN



Scale 1:250,000



064016

HEMATITE PETROLEUM PTY. LTD.

BASS BASIN

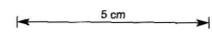
WATER DEPTH

SEISMIC AND HYDROGRAPHIC CHART DATA

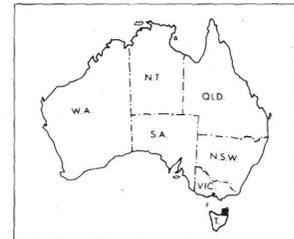
Interpretation by G. Hosking

Contours in feet below Sea Level

Date: January 1972



CAPE BARREN or K55-3



INDEX TO ADJOINING SHEETS

BASS	FLINDERS	TASMAN
WYNARD	CAPE BARREN	PARKINSON
DEVONPORT	LAUNCESTON	

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- They are designated by:
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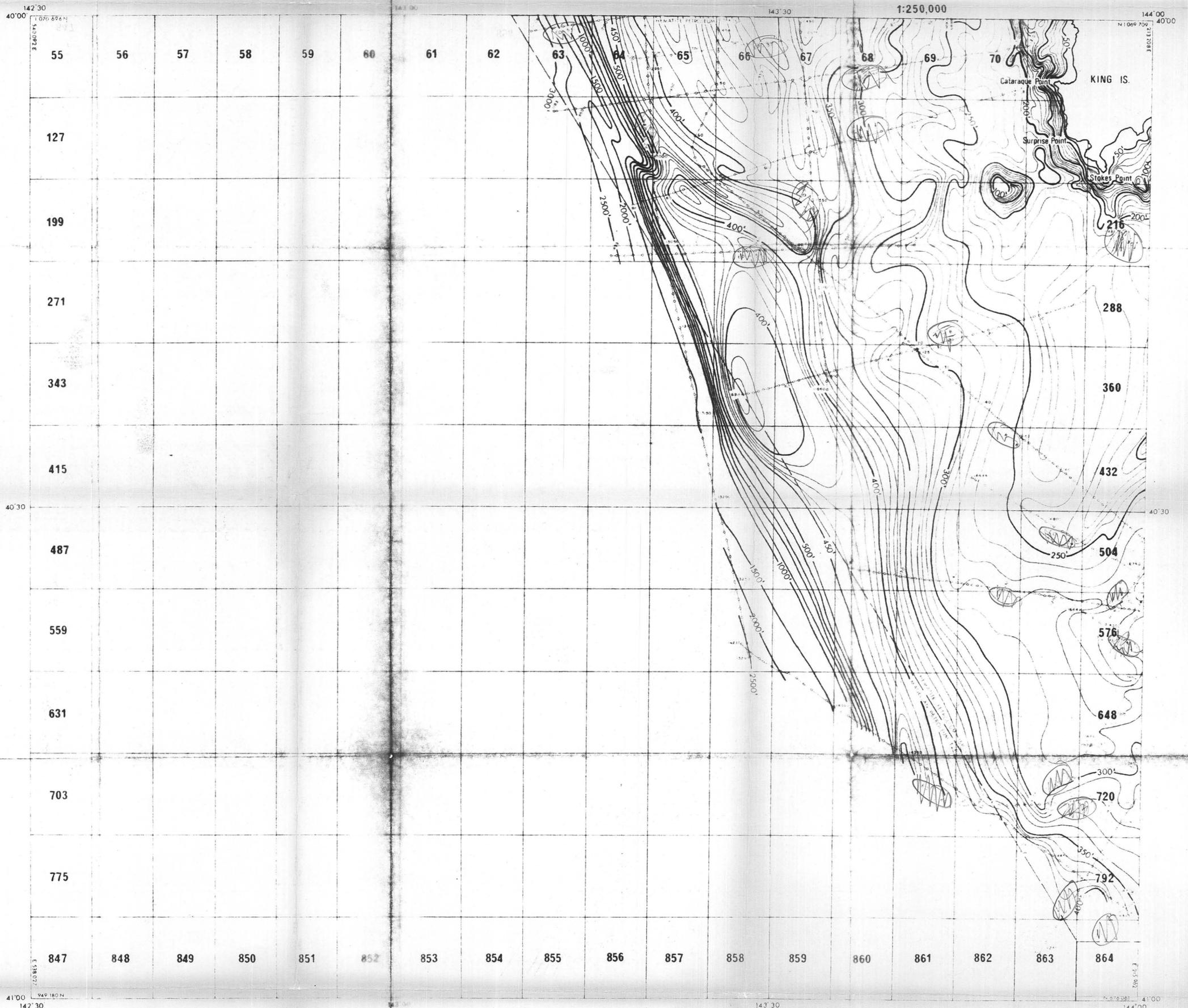
Reference: Petroleum (Submerged Lands) Act 1967 68 of the Commonwealth of Australia.
Petroleum (Submerged Lands) Act 1967 68 of the State concerned.

LEGEND

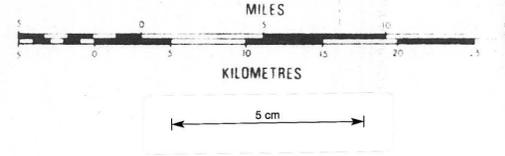
- Oil
- ⊛ Gas
- ⊛ Oil & Gas
- Oil show
- Gas show
- ⊛ Oil & Gas shows
- Drilling
- ∅ Dry hole (Abandoned)

STOKES

1:250,000



Scale 1:250,000



INDEX TO ADJOINING SHEETS

GRANT	WICKHAM	KING
	STOKES	HUNTER
		SMITHTON

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1 The name of the Map Sheet 1:1000,000 Series
2 The block number
3 The Longitude and Latitude of the North West corner
eg MELBOURNE 1777 Long 148°00' E Lat 38°00' S

Reference Petroleum (Submerged Lands) Act 1967 68 of the Commonwealth of Australia
Petroleum (Submerged Lands) Act 1967 68 of the State concerned

LEGEND

- - - - - Oil
- ★ - - - - Gas
- ⊛ - - - - Oil & Gas
- - - - - Oil show
- ☆ - - - - Gas show
- ⊙ - - - - Oil & Gas shows
- - - - - Drilling
- ⊖ - - - - Dry hole (Abandoned)

HEMATITE PETROLEUM PTY. LTD.

OTWAY BASIN WATER DEPTH

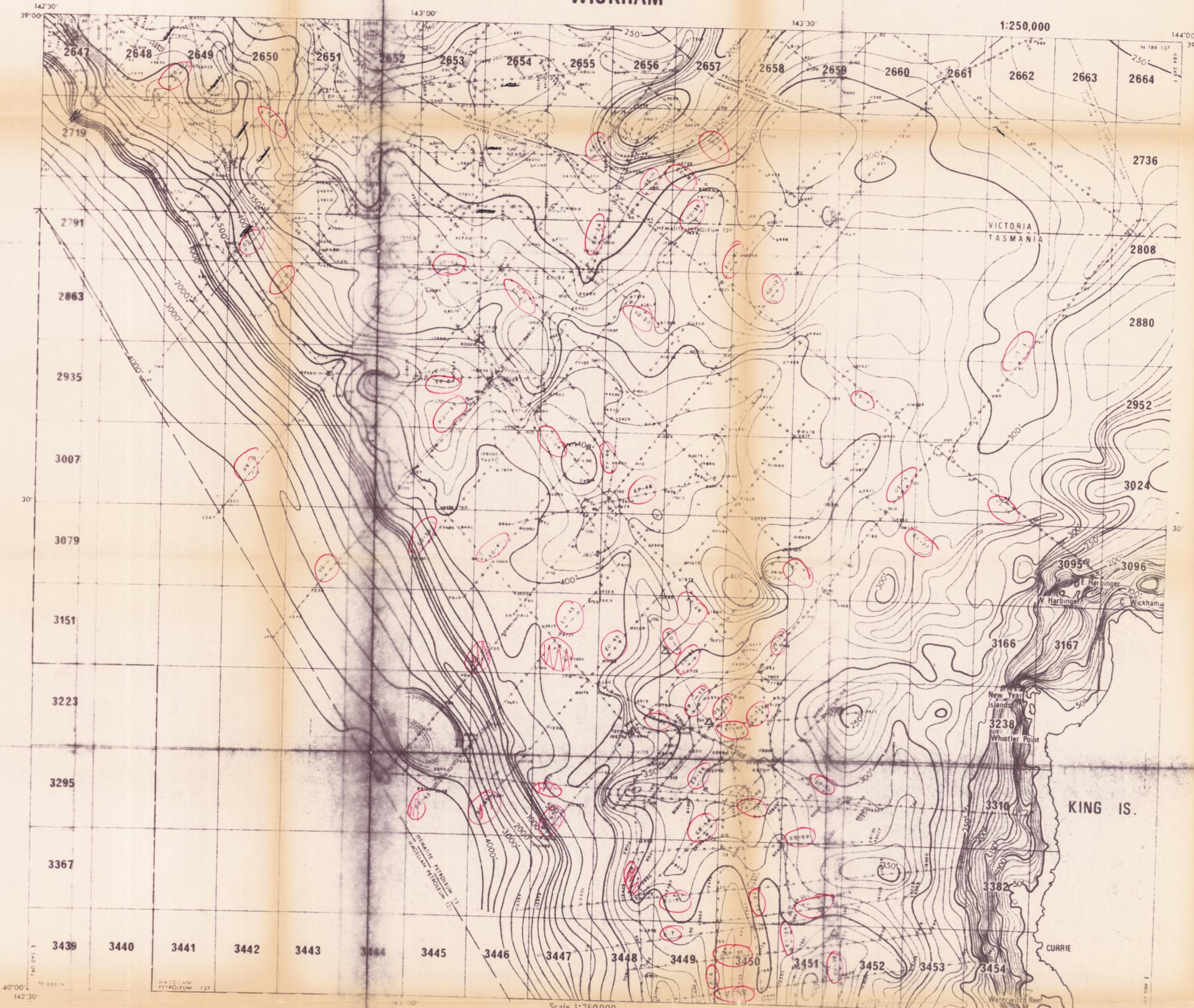
Interpretation by G. Hosking
Contours in feet below Sea Level
Date June 1973

STOKES or K54-4

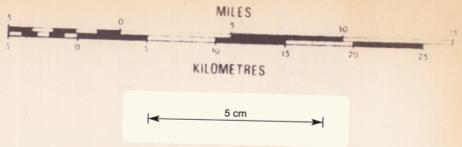
WICKHAM

ZONE 6 ZONE 7

1:250,000



Scale 1:250,000



HEMATITE PETROLEUM PTY. LTD.

OTWAY BASIN

WATER DEPTH

SEISMIC AND HYDROGRAPHIC CHART DATA

Interpretation by E. Celisse
Contours in feet below Sea Level
Date June 1973

WICKHAM or J54-16

064018

02-033



INDEX TO ADJOINING SHEETS

PORTLAND	COLAC	QUEENSLIFF
GRANT	WICKHAM	KING
	STOKES	HUNTER

Compiled by the Exploration Services Office of Hematite Petroleum Pty Ltd in conformity with and as an extension to the topographic series prepared by the Royal Australian Survey Corps and the Department of Geographical Mapping. This plan is drawn according to the Transverse Mercator Projection.

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1 The name of the Map Sheet 1:100,000 series
2 The block number
3 The Longitude and Latitude of the North West corner
eg MELBOURNE 1777 Long 144° 00' E. Lat 38° 00' S.

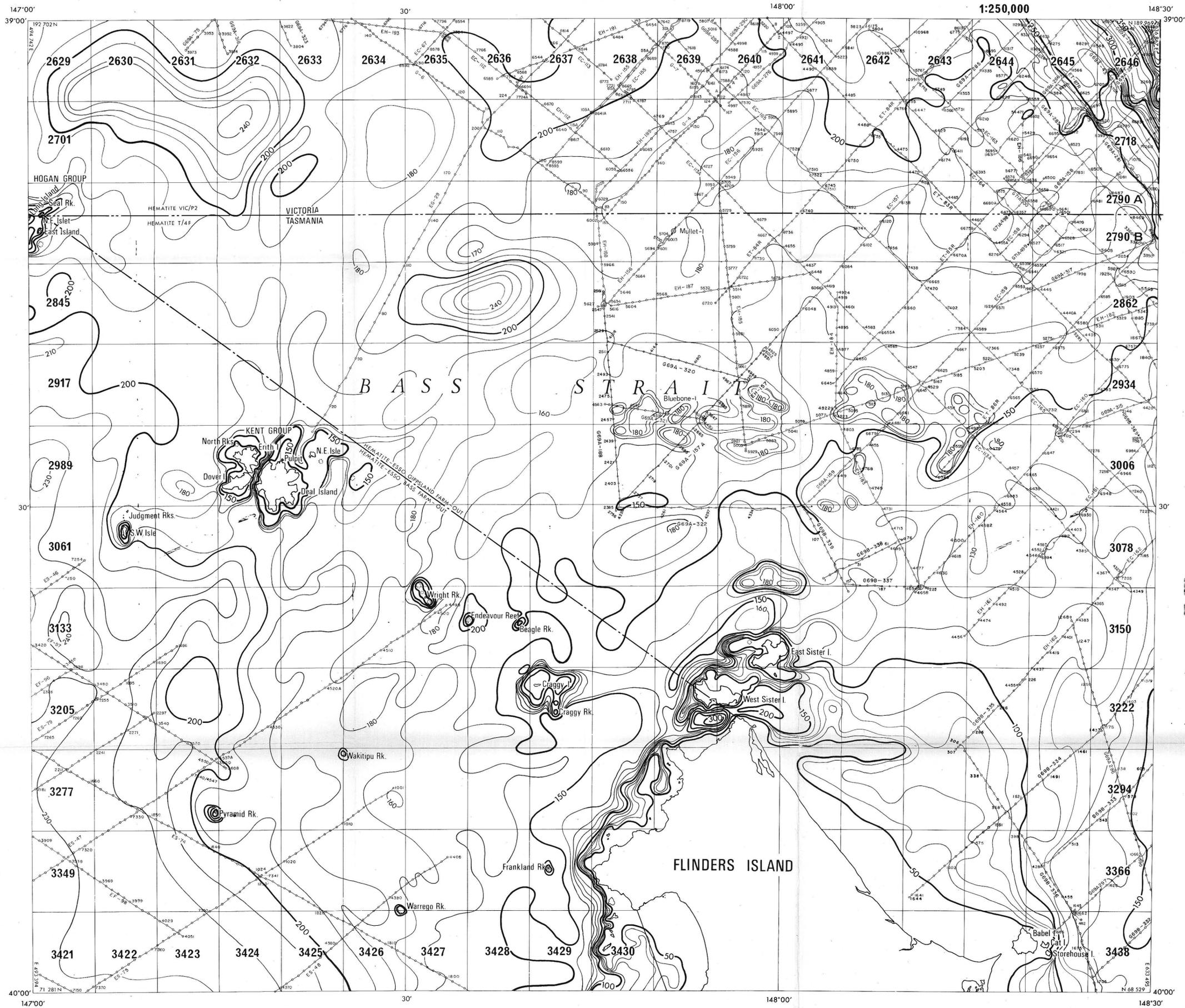
Reference Petroleum (Submerged Lands) Act 1967 68 of the Commonwealth of Australia
Petroleum (Submerged Lands) Act 1967 68 of the State concerned

LEGEND

- Oil
- ⊙ Gas
- ⊙ Oil & Gas
- Oil show
- ⊙ Gas show
- ⊙ Oil & Gas shows
- Drilling
- ⊙ Dry hole (Abandoned)

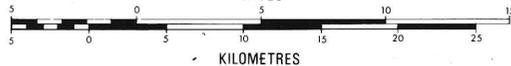
FLINDERS

ZONE 7 ZONE 8



Scale 1:250,000

MILES



KILOMETRES

064019

ZONE 7 ZONE 8

HEMATITE PETROLEUM PTY. LTD.

GIPPSLAND BASIN

WATER DEPTH

SEISMIC AND HYDROGRAPHIC CHART DATA

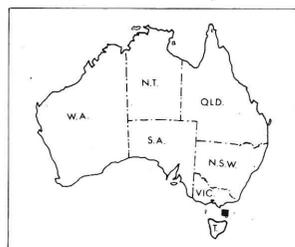
5 cm

Interpretation by G. Hosking

Contours in feet below Sea level

Date: November 1973

FLINDERS or J55-15



INDEX TO ADJOINING SHEETS

WARRAGUL	SALE	TOM THUMB
BASS	FLINDERS	TASMAN
WYNARD	CAPE BARREN	

Compiled by the Exploration Drawing Office of Hematite Petroleum Pty. Ltd. in conformity with and as an extension to the topographic series prepared by the Royal Australian Survey Corps and the Division of National Mapping. This plan is drawn according to the zone numerical system and therefore disregards irregularly placed sheets. Transverse Mercator Projection.

The five minute Graticular Sections are shown thus 1777

They are designated by:

1. The name of the Map Sheet 1:1,000,000 series.
2. The block number.
3. The Longitude and Latitude of the North West corner.

e.g. MELBOURNE 1777 Long. 148° 00' E. Lat. 38° 00' S.

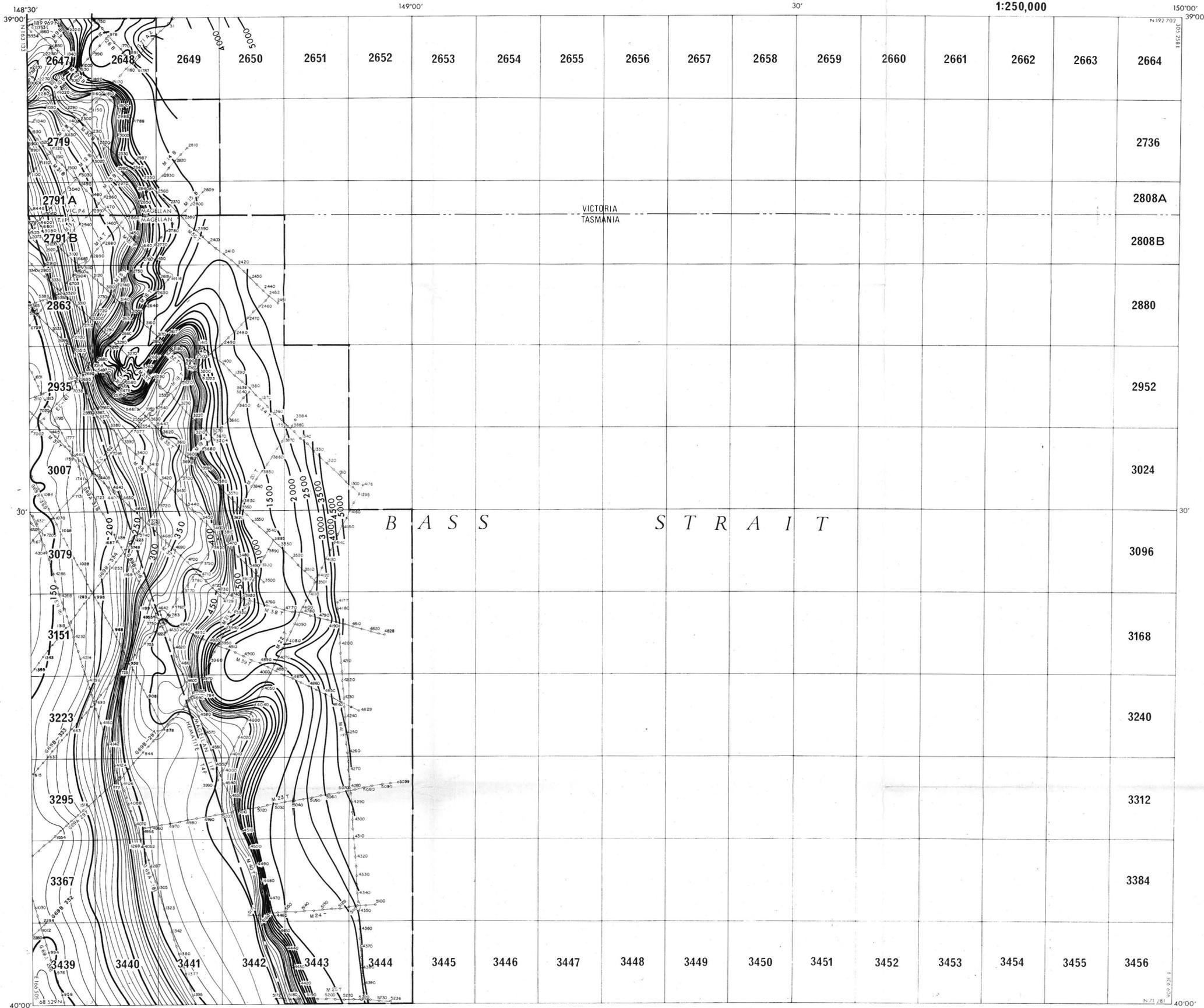
Reference: Petroleum (Submerged Lands) Act 1967-68 of the Commonwealth of Australia.
Petroleum (Submerged Lands) Act 1967-68 of the State concerned.

LEGEND

- Oil
- ⊛ Gas
- ⊛ Oil & Gas
- Oil show
- ⊛ Gas show
- ⊛ Oil & Gas shows
- Drilling
- ⊘ Dry hole (Abandoned)

TASMAN

ZONE 7 ZONE 8



ZONE 7 ZONE 8

Scale 1:250,000

064020

HEMATITE PETROLEUM PTY. LTD.

GIPPSLAND BASIN WATER DEPTH

SEISMIC AND HYDROGRAPHIC CHART DATA

Interpretation by P. Tingey

Contours in feet below Sea Level

Date: November 1973

5 cm

TASMAN or J55-16



INDEX TO ADJOINING SHEETS

SALE	TOM THUMB
FLINDERS	TASMAN
CAPE BARREN	

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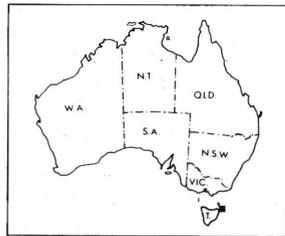
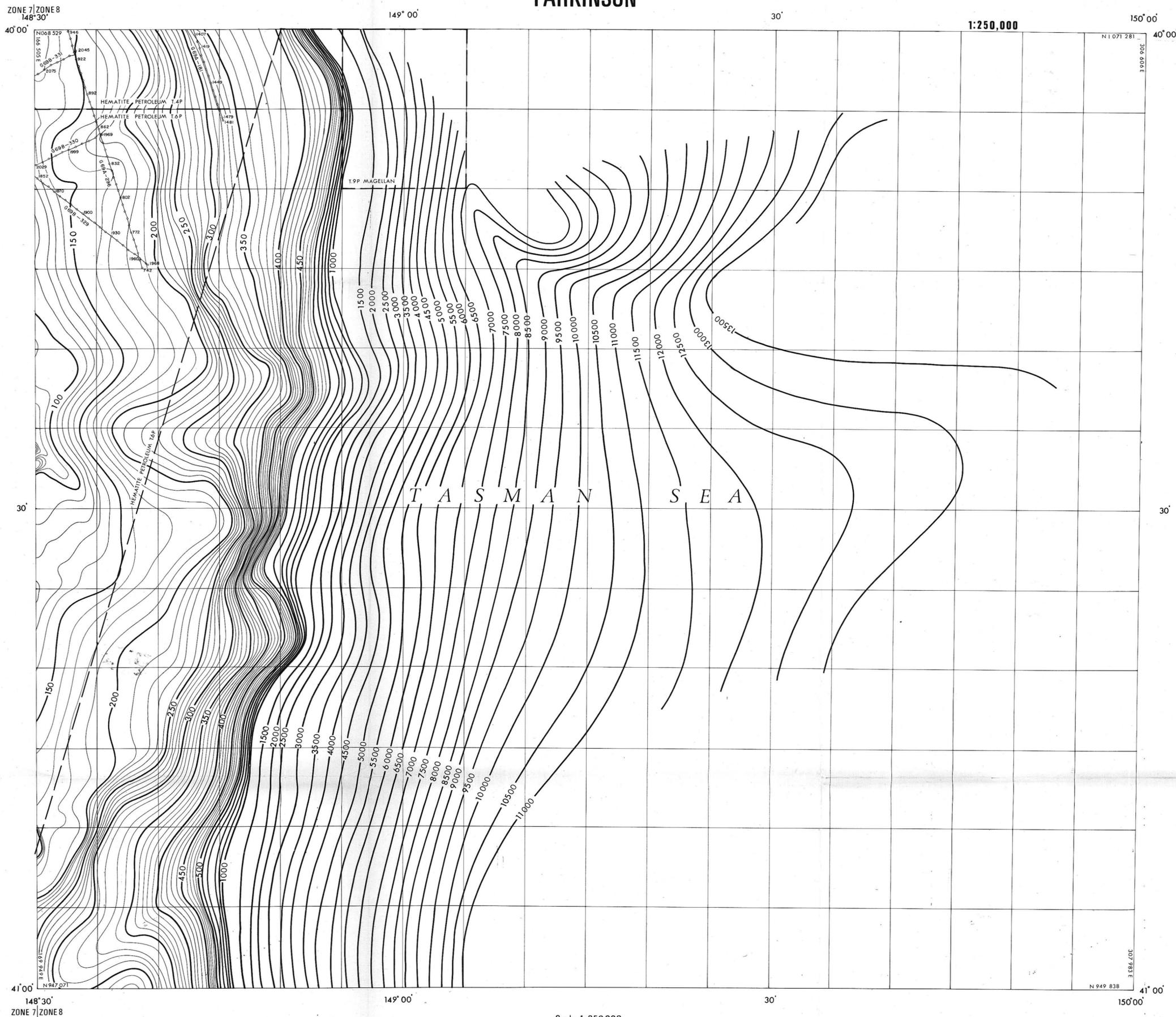
The five minute Graticular Sections are shown thus 1777
They are designated by
1. The name of the Map Sheet 1:1000,000 series
2. The block number
3. The Longitude and Latitude of the North West corner
e.g. MELBOURNE 1777 Long 148 00' E Lat 38 00' S

Reference: Petroleum (Submerged Lands) Act 1967 68 of the Commonwealth of Australia
Petroleum (Submerged Lands) Act 1967 68 of the State concerned

LEGEND

- Oil
- ⊙ Gas
- ⊛ Oil & Gas
- Oil show
- ⊙ Gas show
- ⊙ Oil & Gas shows
- Drilling
- ⊙ Dry hole (Abandoned)

PARKINSON



INDEX TO ADJOINING SHEETS

FLINDERS	TASMAN
CAPE BARREN	PARKINSON
LAUNCESTON	

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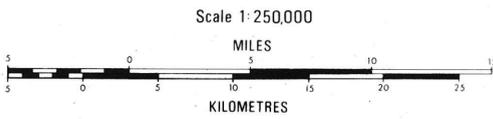
The five minute Graticular Sections are shown thus 1777

They are designated by:

- The name of the Map Sheet 1:1000,000 series.
- The block number.
- The Longitude and Latitude of the North West corner.

e.g. MELBOURNE 1777 Long 148° 00' E. Lat. 38° 00' S.

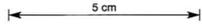
Reference: Petroleum (Submerged Lands) Act 1967-68 of the Commonwealth of Australia.
Petroleum (Submerged Lands) Act 1967-68 of the State concerned



- LEGEND**
- ----- Oil Well
 - ⊙ ----- Gas Well
 - ⊛ ----- Oil & Gas Well
 - ----- Oil show
 - ⊙ ----- Gas show
 - ⊛ ----- Oil & Gas shows
 - ----- Drilling
 - ♠ ----- Dry hole (Abandoned)

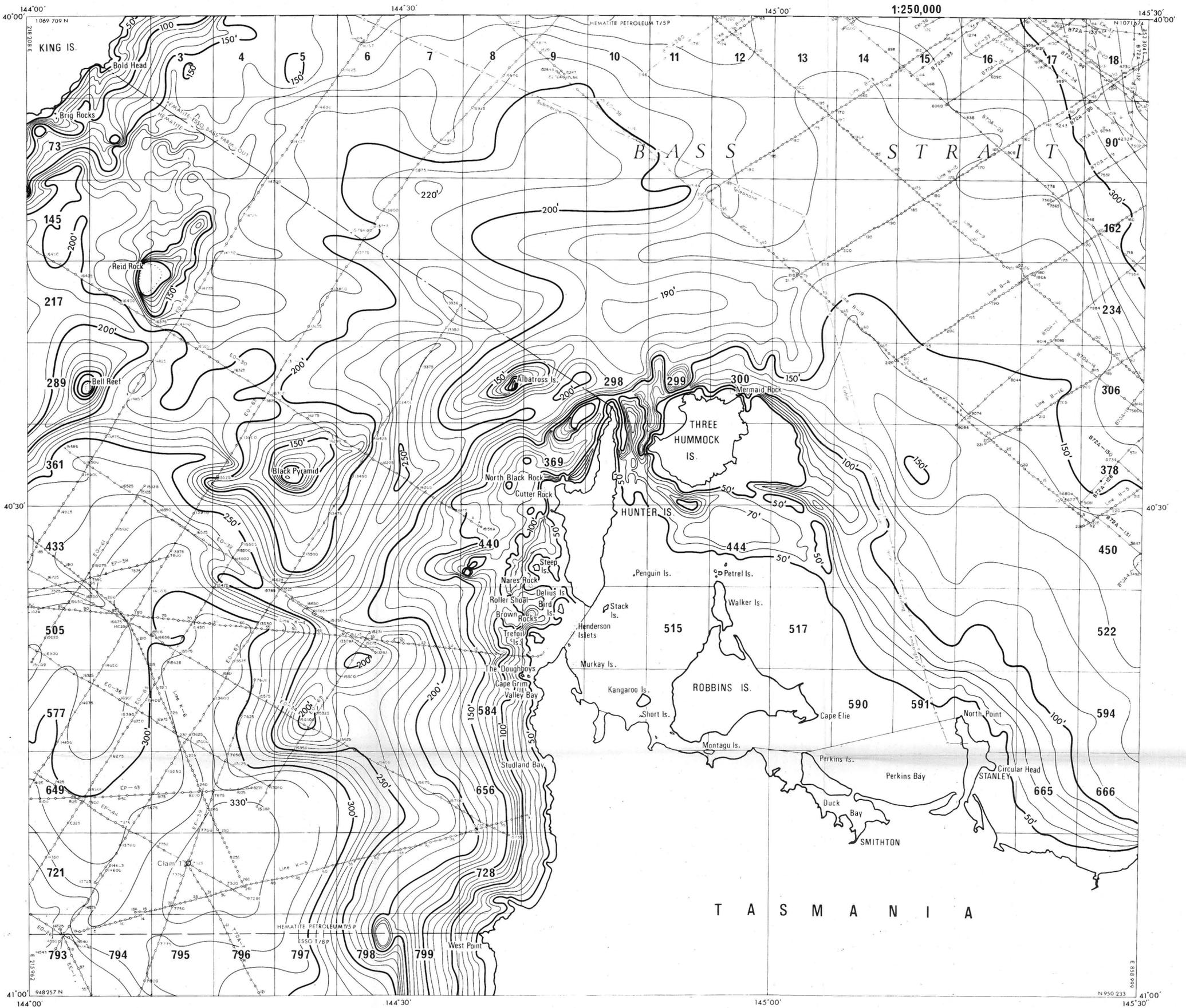
064021
HEMATITE PETROLEUM PTY. LTD.
GIPPSLAND BASIN
WATER DEPTH
SEISMIC AND HYDROGRAPHIC CHART DATA

Interpretation by G. Hosking
Contours in feet below Sea Level
Date: November 1973



PARKINSON or K55-4

HUNTER



INDEX TO ADJOINING SHEETS

WICKHAM	KING	BASS
STOKES	HUNTER	WYNARD
	SMITHTON	DEVONPORT

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- 2 The block number
- 3 The Longitude and Latitude of the North West corner

e.g. MELBOURNE 1777 Long 148 00 E Lat 38 00 S

Reference: Petroleum (Submerged Lands) Act 1967 68 of the Commonwealth of Australia
Petroleum (Submerged Lands) Act 1967 68 of the State concerned

LEGEND

- - - - - Oil
- ☆ - - - - Gas
- ★ - - - - Oil & Gas
- - - - - Oil show
- ⊙ - - - - Gas show
- ⊛ - - - - Oil & Gas shows
- - - - - Drilling
- ⊘ - - - - Dry hole (Abandoned)