

**ANNUAL REPORT FOR T/7P  
AND EL 19/65**

**REPORT FOR TASMANIAN  
MINES DEPARTMENT**

**TPR  
OR - 074**

**CONTENTS**

**T/P7**

Introduction

List of Illustrations

Enclosures

Interpretation

Expenditure

**E.L. 19/65**

Expenditure

ANNUAL REPORT FOR T/P7 AND EL19/65REPORT FOR TASMANIAN MINES DEPARTMENT

T/P7

Introduction

To assist in an evaluation of T/P7 and to better delineate the structural trend of the faults interpreted from the T69B Seismic Survey, the T70B Seismic Survey was shot during the period, January 14, 1970 - January 17, 1970. This survey, which consists of 60.79 miles was digitally recorded, shot with Aquapulse and processed 12-fold CDP.

The technical data of T70B Survey is herein interpreted along with some minor updating of T69B Survey mapping.

List of Illustrations

Plate 1 Orientation Map.

Plate 2 Structure Map on Economic Basement.

Plate 3 Structure Map on a Lower Tertiary Horizon.

Enclosures:

Detailed Report by Western Geophysical Co. entitled, "Final Operations Report; Australian Marine Seismic Survey T70B".

Interpretation:

Velocity control for stacking data was obtained from move-out scan analysis of the recorded data. The time/depth relationship was established on a composite curve from wells, Groper -1, Clam -1 and West Tasmania Velocity scans. The relatively thin veneer of sediments on the East Tasmanian data was considered inadequate for determining proper time/depth relationships.

Plate 2, Structure Map on Economic Basement shows an easterly dipping surface which dips 150' to 200' per mile with little structural deformation until an en echelon trend of large NNW-SSE normal faults are mapped on the East portion of the permit area.

Plate 3, Structure Map on a Lower Tertiary Horizon, is a seismically mapped surface on a sequence of rocks which are interpreted to be Eocene coarse clastics. This sequence is essentially a double tapered wedge of which the Western limit is determined by onlap, and the Eastern limit is determined by the edge of progradation (offlap).

The sedimentary section from this Lower Tertiary horizon mapped, up to the sea floor is believed to consist of primarily Miocene marls and calcarenites.

Expenditure

Actual expenditure for the second year for these permit areas (September 1, 1969 to August 31, 1970) is detailed as follows:-

2.

T.P/7 East CoastSA

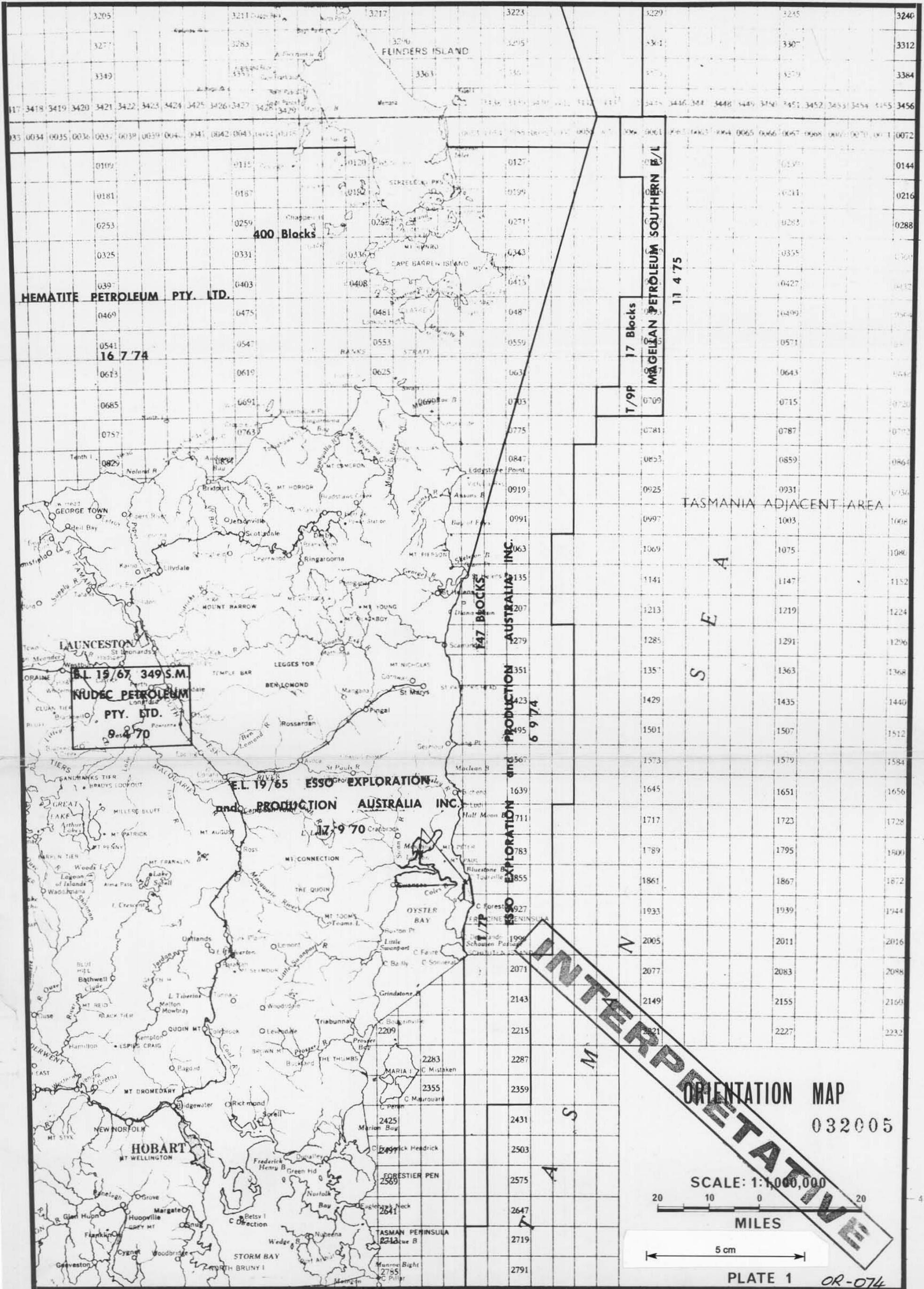
Operations Geology	175.00
Geophysical Surveys	31,597.00
Playback	16,729.00
Geophysical Interpretation	<u>4,728.00</u>

53,229.00E.L. 19/65Expenditure

E.L. 19/65 East Coast.

Nil

INTERPRETATIVE



HEMATITE PETROLEUM PTY. LTD.

16 7 74

B.L. 19/67 349 S.M.  
 NUDEC PETROLEUM  
 PTY. LTD.  
 8 2 70

E.L. 19/65  
 and PRODUCTION AUSTRALIA INC.  
 17 9 70

T/9P 17 Blocks  
 MAGELLAN PETROLEUM SOUTHERN B/L  
 11 4 75

INTERPRETATIVE

ORIENTATION MAP  
 032005

SCALE: 1:1,000,000

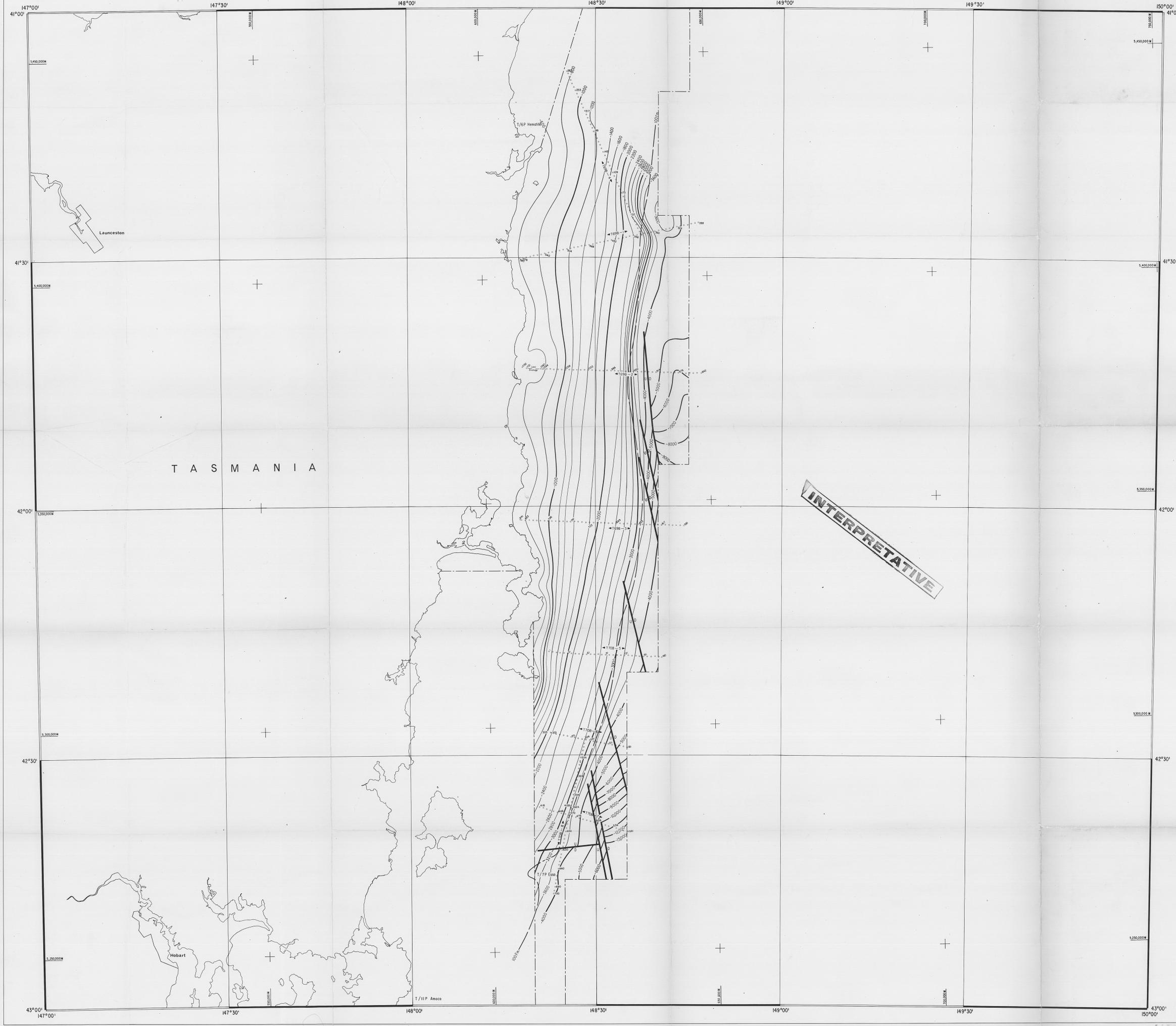
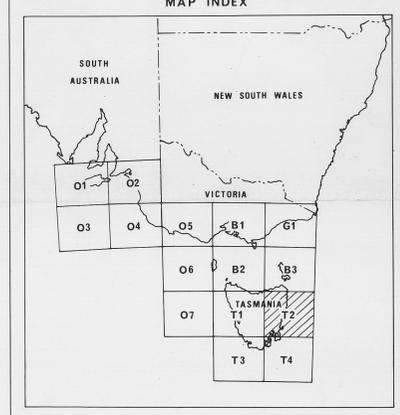
20 10 0 20  
 MILES

5 cm

PLATE 1 OR-074

T/TP part-II\*

DWG: 1285/09/4



LEGEND

- SBI Seismic shot point
- U Fault, D downthrown side
- - - Petroleum Tenement Boundary
- 100 Ft Water depth 100 Fathoms

ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.

TASMANIA

TASMANIA

5 cm

STRUCTURE MAP ON ECONOMIC BASEMENT

INTERPRETATIVE

CONTOUR INTERVAL 200, 400, 1000' DATUM SEA LEVEL

SCALE: 1:250,000



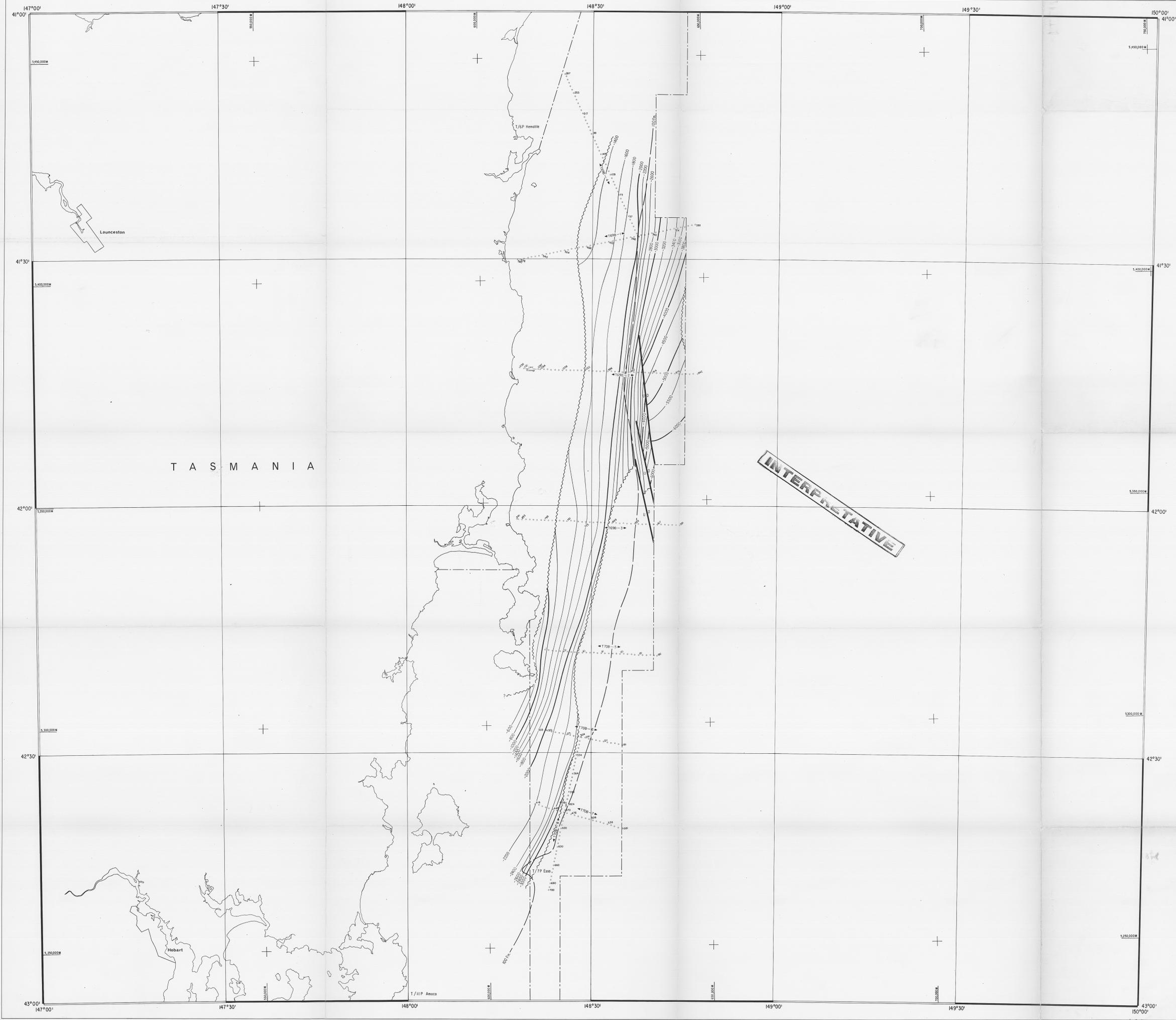
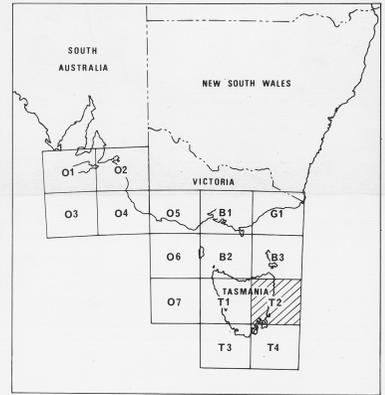
AUTHOR: R.A. BROTHERTON DRAFTED BY: B.H. BAKKEN

TO ACCOMPANY REPORT TO TASMANIA MINES DEPARTMENT DATE: AUGUST 1970

SHEET 03200G PLATE 2

**INTERPRETATIVE**

MAP INDEX



**LEGEND**

- Seismic shot point
- Fault, 'U' downthrown side
- - - Petroleum Tenement Boundary
- ~ ~ ~ Limit of Lower Tertiary
- 100 Fm Water depth 100Fathoms

**INTERPRETATIVE**

ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.

**TASMANIA**

TASMANIA

5 cm

STRUCTURE MAP ON  
LOWER TERTIARY

**INTERPRETATIVE**

CONTOUR INTERVAL 200/500/1000 DATUM SEA LEVEL

SCALE: 1:250,000



AUTHOR: R. BROTHERTON DRAFTED BY: B. H. BARKEN  
TO ACCOMPANY REPORT TO TASMANIA MINES DEPARTMENT DATE: AUGUST 1970

SHEET PLATE 3