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ANNUAL REPORT

YEAR 2

PERMIT T/22P

AMOCO AUSTRALIA PETROLEUM COMPANY

SEPTEMBER, 1986.

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FIGURES

- FIGURE 1. LOCATION MAP PELICAN-5 WELL  
FIGURE 2. "1985B AMOCO BASS BASIN SURVEY" LINE MAP

ENCLOSURE

- NO.1 T/22P SHOT POINT LOCATION MAP

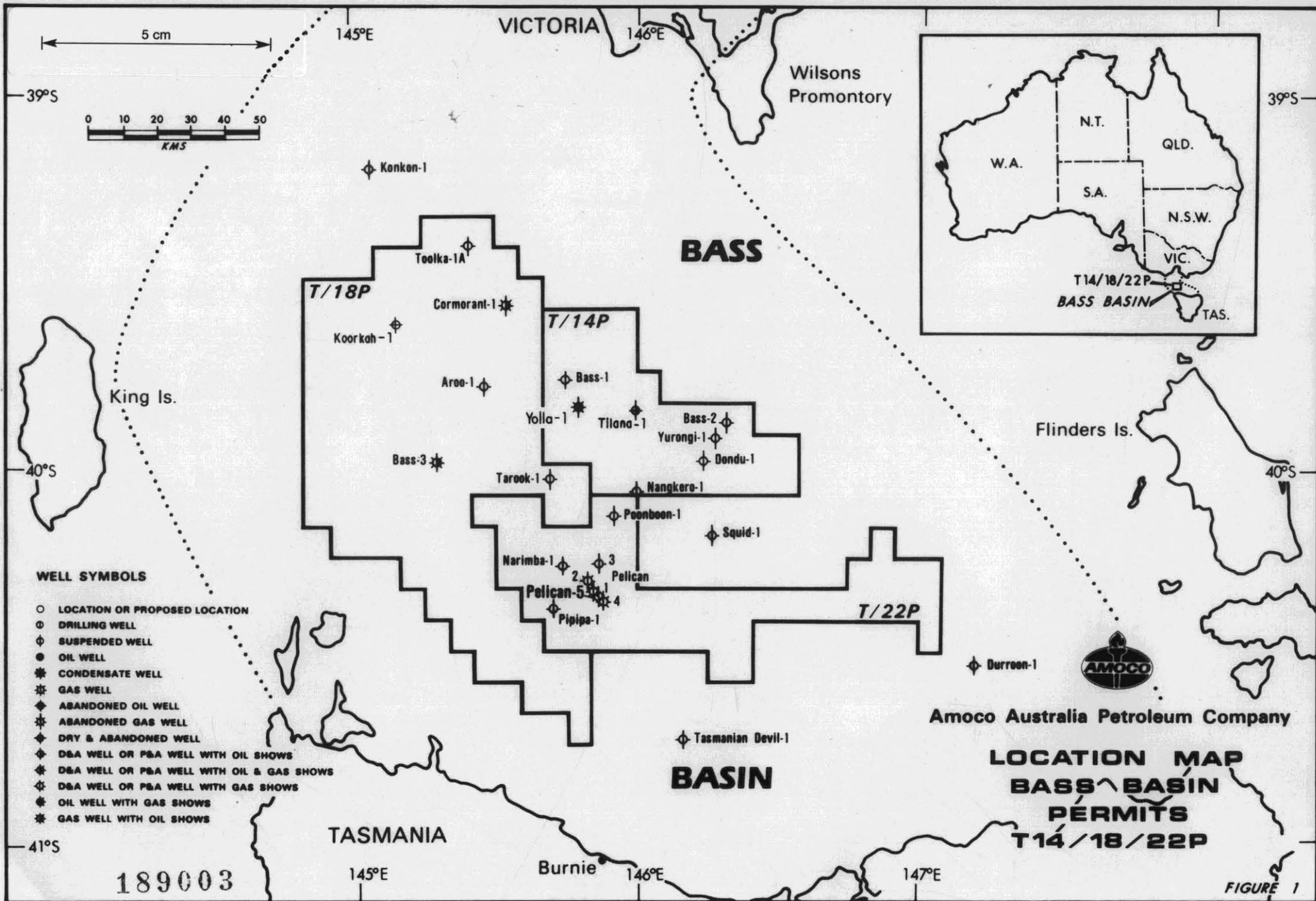


FIGURE 1

# CONFIDENTIAL

## CLASS 1

### 1. INTRODUCTION

This report relates to exploratory work carried out by Amoco Australia Petroleum Company, as operator for the consortium holding title to Permit T/22P, during the period September 3, 1985 to September 2, 1986.

### 2. PREVIOUS REPORTS

The following reports have been submitted by Amoco Australia Petroleum Company during Year 2:

First Quarterly Report, (Sept 3-Dec 2) Year 2, T/22P, dated Feb 7, 1986.

Second Quarterly Report, (Dec 3-March 2) Year 2, T/22P, dated April 22, 1986.

Third Quarterly Report, (March 3-June 2) Year 2, T/22P, dated July 2, 1986.

"1984 Amoco Bass Basin Survey" Acquisition Report, sent September 19, 1985.

"1984 Amoco Bass Basin Survey" Navigation Report, sent September 19, 1985.

"1984 Amoco Bass Basin Survey" Processing of Shipborne Gravity and Magnetic Data, sent October 14, 1985.

"1985B Amoco Bass Basin Survey" Final Operation Report T14, 18 & 22P, sent June 17, 1986.

### 3. DRILLING OPERATIONS

During the reporting period, Amoco Australia Petroleum Company drilled one well in the T/22P acreage, Pelican-5. The well was drilled on a faulted anticlinal structure to test marginal to non-marine sandstones of late Cretaceous to Eocene age within the Eastern View Coal Measures. Because of encouraging oil and gas shows during drilling of the EVCM, 8 D.S.T.'s were carried out in Pelican-5, the results of which are as follows:

- 2 -

## Early (?) Paleocene Sandstones

<u>D.S.T. NO.</u>	<u>PERFORATED INTERVAL(S)</u>	<u>RECOVERY</u>
1.	3672 - 3699 m	No Recovery
2.	3607 - 3619 m	No Recovery
2A.	3612 - 3618 m	No Recovery

## Middle (?) Paleocene Sandstones

3.	3440 - 3451 m	No Recovery
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## Late (?) Paleocene Sandstones

4.	3142 - 3163.5 m	No Recovery
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<u>D.S.T. NO.</u>	<u>PERFORATED INTERVAL(S)</u>	<u>RECOVERY</u>
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## Early Eocene Sandstones

5.	2868 - 2884 m	No Recovery
5A.	2855 - 2860.5 m	No Recovery
6.	2786 - 2790 m	3/4" Choke; 5.5 MMCFGD; 441 BPD 57.4 degrees API condensate; 662 BWP

The well was plugged and abandoned on April 16, 1986 at a total depth of 4267 meters.

#### 4. GEOLOGICAL WORK

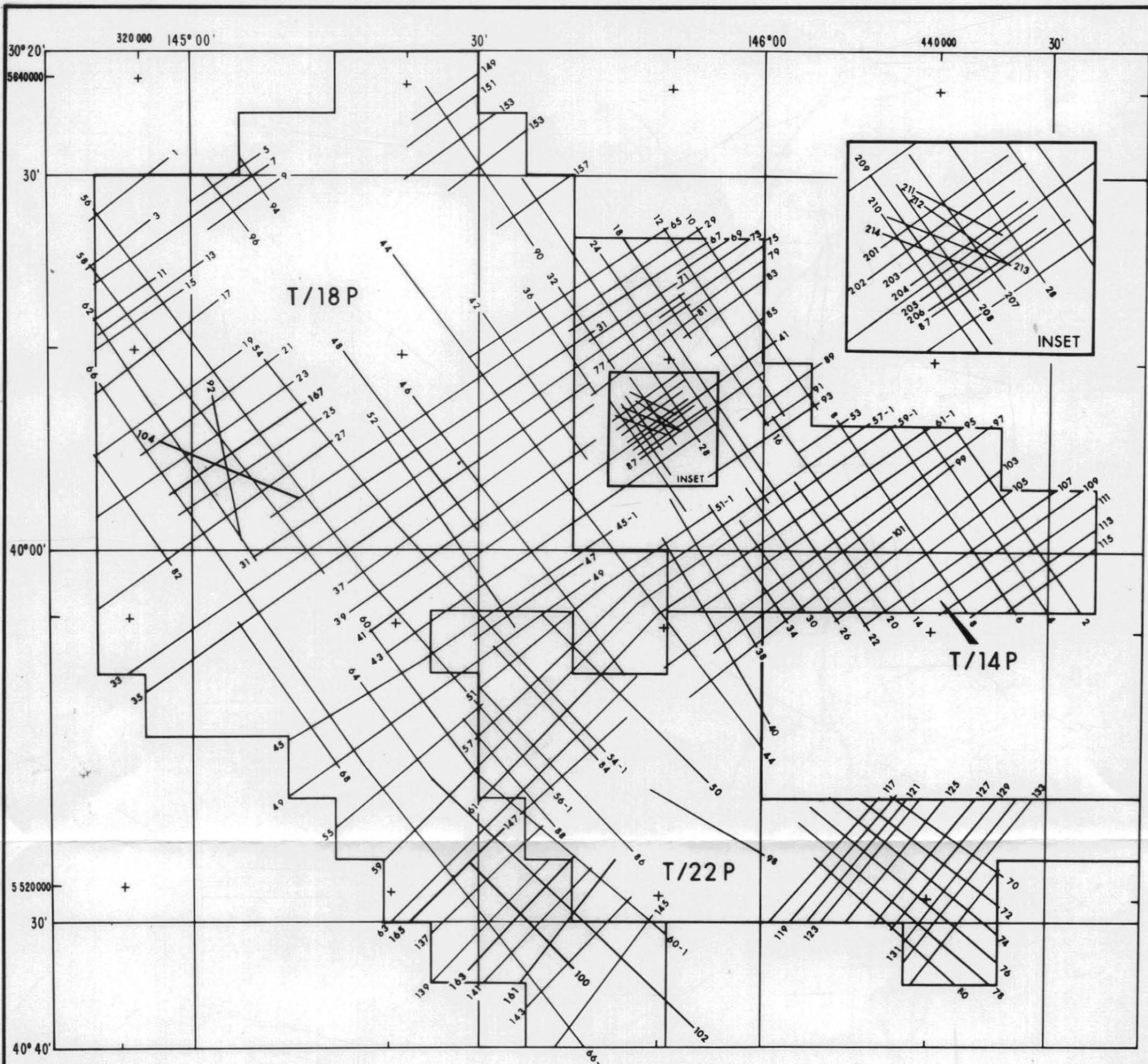
Samples from the Pelican-5 well have been submitted for various analyses including age dating (Palynology and Paleontology), source rock studies (maturation, kerogen typing and hydrocarbon characterisation) and petrological examinations. The results of these studies will either be incorporated into the final well reports where practical or will be distributed as separate reports upon completion of the analyses.

The regional geological study instigated during the Third Quarter of Year 2 is continuing. As it becomes available, the analytical data gathered from the drilling of the Pelican-5 well is being incorporated into the study.

#### 5. GEOPHYSICAL WORK

##### Data Acquisition

From October 6, to November 16, 1985 a total of 952 km of seismic, gravity and magnetic data were acquired over the permit, as part of the 1985B Amoco Bass Basin Survey. The survey consisted of both regional and detailed lines. The regional lines were infill to the 1984 lines to complete a regional grid of modern data over most of the permit. Lines shot during the survey are prefixed TQH5, and their location is shown on figure 2 and Enclosure 1 (Shot Point Location Map T/22P). A vertical seismic profile survey was run on the Pelican-5 well on March 14, 1986 with 149 levels recorded between 78m and 4240m below KB.



NOTE: All lines prefixed by - TQH5 -  
e.g. TQH5 - 33

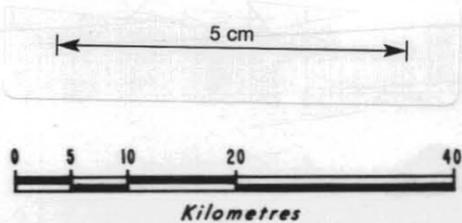


Amoco Australia Petroleum Company

Offshore Tasmania  
**BASS BASIN**

**1985 B AMOCO  
BASS BASIN SURVEY  
LINE LOCATION MAP**

SCALE: As shown	FIGURE: 2
DATE: April 1986	AUTHOR: J.T.
Drwg. No. FU-226	



### Data Processing

The V.S.P. survey on Pelican-5 was run in cased hole at 20 m intervals from 4240 m Total Depth to 1500 m, and then check shots only from 1500 m to 78 m at 100 m intervals below KB. Data Quality varied from poor to good, with only fair quality data being recorded below 2870 m.

Both a water gun and a air gun were used on the survey. The water gun was used from TD to 2830 m where it failed, and was subsequently replaced by an air gun for the remaining levels to 78 m. Overlapping data was recorded from 2930 to 2830 for comparison between the two guns.

To review the processing sequence used on the 1984 lines and determine an optimum sequence for the proposed 1985B Amoco Bass Basin Survey Lines, a program of test processing was run in September and October by G.S.I. in Sydney. In general the results confirmed previous tests except that the deconvolution filter was changed from minimum phase to G.S.I.'s Designature deconvolution filter. Designature produces a band limited zero phase wavelet, and sections processed using this filter gave better definition of the unconformity horizons below the Eastern View Coal Measures.

Processing commenced on the 1985B Amoco Bass Basin Survey data from T/22P in late October following a data drop during the survey. Preliminary sections were available for interpretation in late November, with final sections available in March this year. Sepia copies of the final processed sections were forwarded to the Tasmanian Department of Mines in March, 1986.

Gravity and magnetic data recorded during the survey was processed in the U.S.A. Final results were sent to the Tasmanian Department of Mines in July, 1986.

### Interpretation

Prospect maps were prepared for Pelican-5 and were included with the drilling proposals for the well. Regional mapping is still in progress incorporating the new 1985 data with our 1984 survey data and reprocessed data from surveys dating back to 1968. Final maps are not expected for some months.

6. EXPENDITURE

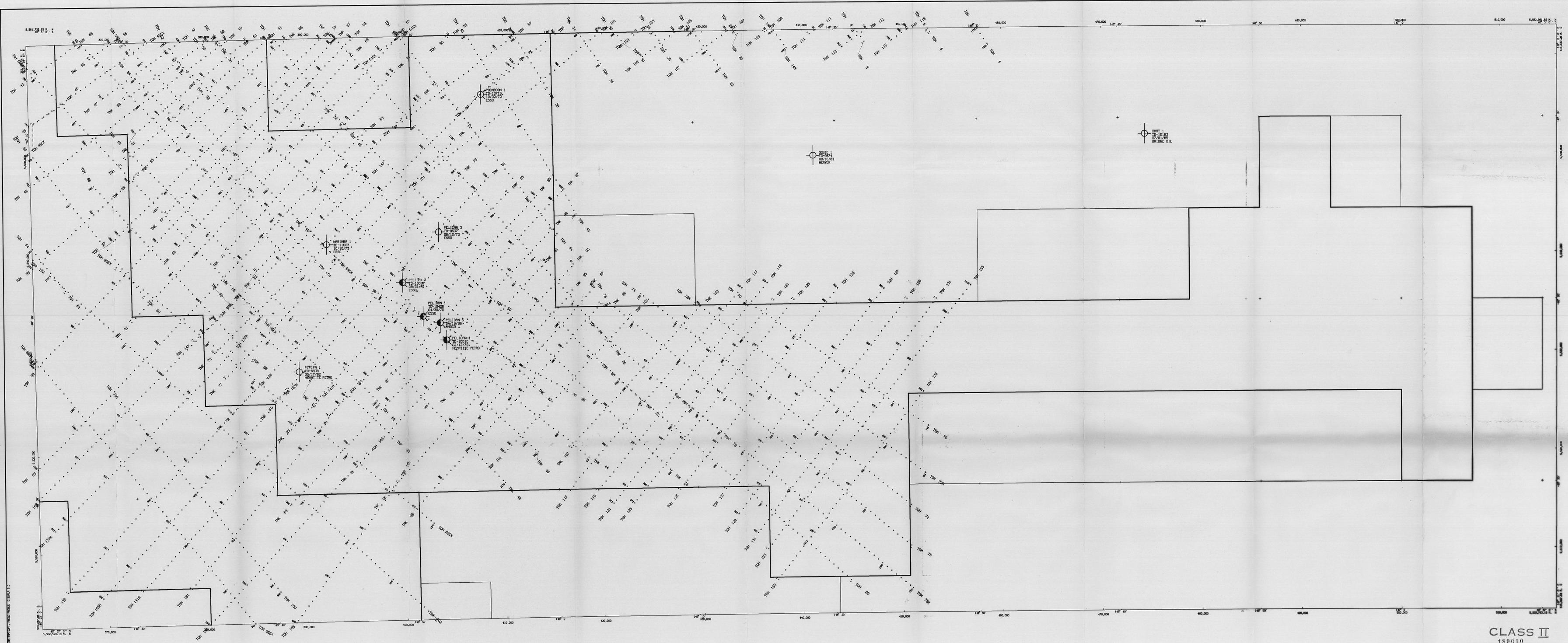
T/22P Expenditure  
September 3, 1985 to September 2, 1986

	A\$
Drilling Equipment	89,625.50
Storehouse Material (Incl. W.I.P.)	766,404.41
Acquisition of Property	-
Exploratory Well Costs	21,753,344.21
Operating Base and Facilities	17,008.00
Office Furniture and Fixtures	4,820.26
Other Direct Operating Expense	249,277.95
Geological and Geophysical Expense	904,997.86
Other Expense	88,797.41
Indirect Operating and Admin. Expense	2,540,044.95
<b>TOTAL</b>	<u>26,414,320.55</u> =====

7. FUTURE WORKS

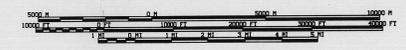
Amoco is planning to conduct the following work in T/22P during the coming year, September 3, 1986 to September 2, 1987.

1. Continue detailed geological evaluation of the basin.
2. Complete regional structure maps on selected horizons in the Tertiary and Cretaceous from the seismic acquired in October-November, 1985.
3. Fully evaluate the results from Pelican-5 and incorporate the data from the well into the overall assessment of the Permit.
4. Undertake a Petrological/Petrophysical study on all cores and logs from all available wells in the Bass Basin including T/22P wells to develop a model for the distribution of reservoir quality sandstones.
5. Commence a seismic stratigraphic study and merge the results with the Petrological/Petrophysical study.



All geological and geophysical data, including the interpretation thereof, appearing on this map is the private and confidential property of Amoco Production Company. The publication or reproduction thereof without the written permission of said Company is hereby prohibited.

INTERNAL TRANSVERSE MERCATOR WGS 84S  
 PROJECTION  
 GENERAL MERIDIAN = 147° 0' 0" E LONG SCALE FACTOR = 0.9999999



**CLASS II**  
 189610  
 AMOCO PRODUCTION COMPANY  
 AUSTRALIA  
 T/22P BRASS BASIN  
 AMOCO LINES ONLY  
 SHOTPOINT BASEMAP  
 SCALE 1 TO 100,000 APR 28, 1986

0 cm  
 CR-0181  
 Enclosure 1