Half Yearly Reports Permits No's T/3P, T/5P & T/6P

1st July 1978 to 31st December 1978

TPR-OR-037

Half Yearly Exploration Report

Half Yearly Permit Reports No's T/3P, T/5P & T/6P

1st July 1978 to 31st December 1978

Drawings:

1660/OP/1	Pelican area structure map Intra-Lower M.diverse Seismic Marker
OG-4421-2	HB77A Seismic Survey Data Acquired

TPR-OR-037

HEMATITE PETROLEUM PTY. LTD.

HALF-YEARLY EXPLORATION REPORT

1ST JULY 1978 TO 31ST DECEMBER 1978

PERMIT T/3P

Drilling Operations

No wells were drilled during the period.

Geophysical Operations

Final sections of data from the HB77A Seismic Survey have been produced on two scales (3.75 in/sec and 32 T.P.I.; 7.5 in/sec and 16 T.P.I.)

Geophysical and Geological Interpretation

The following six horizons, in stratigraphical order below, have been followed over the Cormorant and Kurrowera prospect areas using data shot since and including the B72A Seismic Survey.

Green	Near Base of Miocene Limestone section.
Pink	Top Demons Bluff Formation.
Yellow	Intra-Demons Bluff Formation event. (N.B. Yellow is close to the top of Eastern View Coal Measures over most other areas of the basin).
Light Green	Top Eastern View Coal Measures.
Purple	Near Top of Oil Show, Cormorant-1.
Red	Intra-Eastern View Coal Measures event.

Time maps for these horizons are in preparation.

PWS/ZB/ED41

OR-037

HEMATITE PETROLEUM PTY. LTD.

HALF-YEARLY EXPLORATION REPORT

1ST JULY 1978 TO 31ST DECEMBER 1978

PERMIT T/5P

Drilling Operations

No wells were drilled during the period.

Geophysical Operations

Final sections of data from the HB77A Seismic Survey have been produced.
Outstanding velocity scattergrams have also been received.
Additional processing was carried out on the below lines:-

(1) Migration in time - HB77A-330, HB77a-332, HB77A-334, HB77A-336, HB77A-338, HB77A-341, HB77A-342, HB77A-344, HB77A-352, HB77A-361.

(2) Velocity filtering and designature - HB77A-338.

These lines are shown on the accompanying map.

Geophysical and Geological Interpretation

A final interpretation has been made over the Pelican prospect area primarily using the data from the HB77A Seismic Survey. The following eight horizons, listed in stratigraphical succession below, have been followed across the prospect:-

Green	Near Base of Miocene Limestone section.
Orange	Intra-Lower Miocene section event.
DB (Dark Blue)	Near Top of Oligocene section (Lower Torquay Group).
Brown	Intra-Oligocene event.
Pink	Top Demons Bluff Formation.
Yellow	Top Eastern View Coal Measures.
Red	Intra-Eastern View Coal Measures event.
Blue-1	Near Base of Yellow Gas Sand (reference Pelican-2 at 9262 feet (2823 m) approx.).

..2/.....

Time maps have been prepared for most of the horizons. A depth map of the Blue-1 horizon has been prepared using the velocity functions from the Pelican-1 and Pelican-2 wells. Net sand isopach maps have been produced for eight different levels in the zone of interest in the prospect. A location for the drilling of a Pelican-4 well has been selected.

PWS/ZB/ED43

HEMATITE PETROLEUM PTY. LTD.

HALF-YEARLY EXPLORATION REPORT

1ST JULY 1978 TO 31ST DECEMBER 1978

PERMIT T/6P

Drilling Operations

No wells were drilled during the period.

Geophysical Operations

Final sections of data from the HB77A Seismic Survey have been produced.
Outstanding velocity scattergrams have also been received.
Additional processing was carried out on the below lines:-

(1) Migration in time - HB77A-330, HB77A-332, HB77A-334, HB77A-336, HB77A-338, HB77A-341, HB77A-342, HB77A-344, HB77A-352, HB77A-361.

(2) Velocity filtering and designature - HB77A-338.

These lines are shown on the accompanying map.

Geophysical and Geological Interpretation

A final interpretation has been made over the Pelican prospect area primarily using the data from the HB77A Seismic Survey. The following eight horizons, listed in stratigraphical succession below, have been followed across the prospect:-

Green	Near Base of Miocene Limestone section.
Orange	Intra-Lower Miocene section event.
DB (Dark Blue)	Near Top of Oligocene section (Lower Torquay Group).
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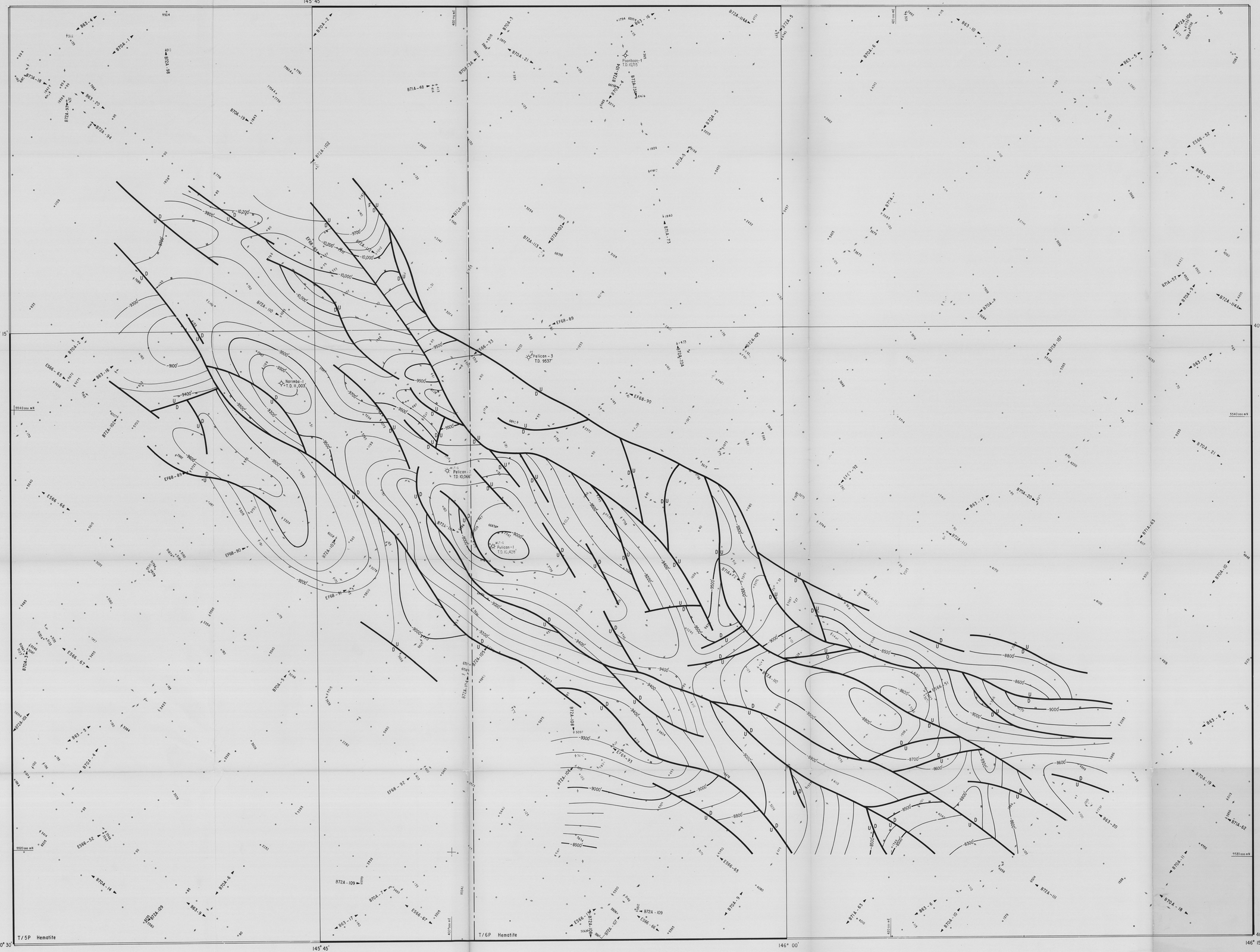
Pink	Top Demons Bluff Formation.
Yellow	Top Eastern View Coal Measures.
Red	Intra-Eastern View Coal Measures event.
Blue-1	Near Base of Yellow Gas Sand (reference Pelican-2 at 9262 feet (2823 m) approx.)

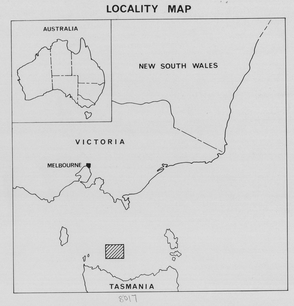
..2/.....

Time maps have been prepared for most of the horizons. A depth map of the Blue-1 horizon has been prepared using the velocity functions from the Pelican-1 and Pelican-2 wells. Net sand isopach maps have been produced for eight different levels in the zone of interest in the prospect. A location for the drilling of a Pelican-4 well has been selected.

PWS/ZB/ED44



LOCALITY MAP



ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.

THE BASS BASIN

TASMANIA

PELICAN AREA

STRUCTURE MAP

INTRA-LOWER *M. diversus* SEISMIC MARKER

CONTOUR INTERVAL : 100 FEET

DATUM : SEA LEVEL

Scale 1 : 50,000

1 1/2 0 1 2

MILES

5 cm

AUTHOR : D.R. EYLES

TO ACCOMPANY : REINTERPRETATION UTILIZING "700 PACKAGE VELOCITY"

DRAFTED BY : D.A. URQUHART

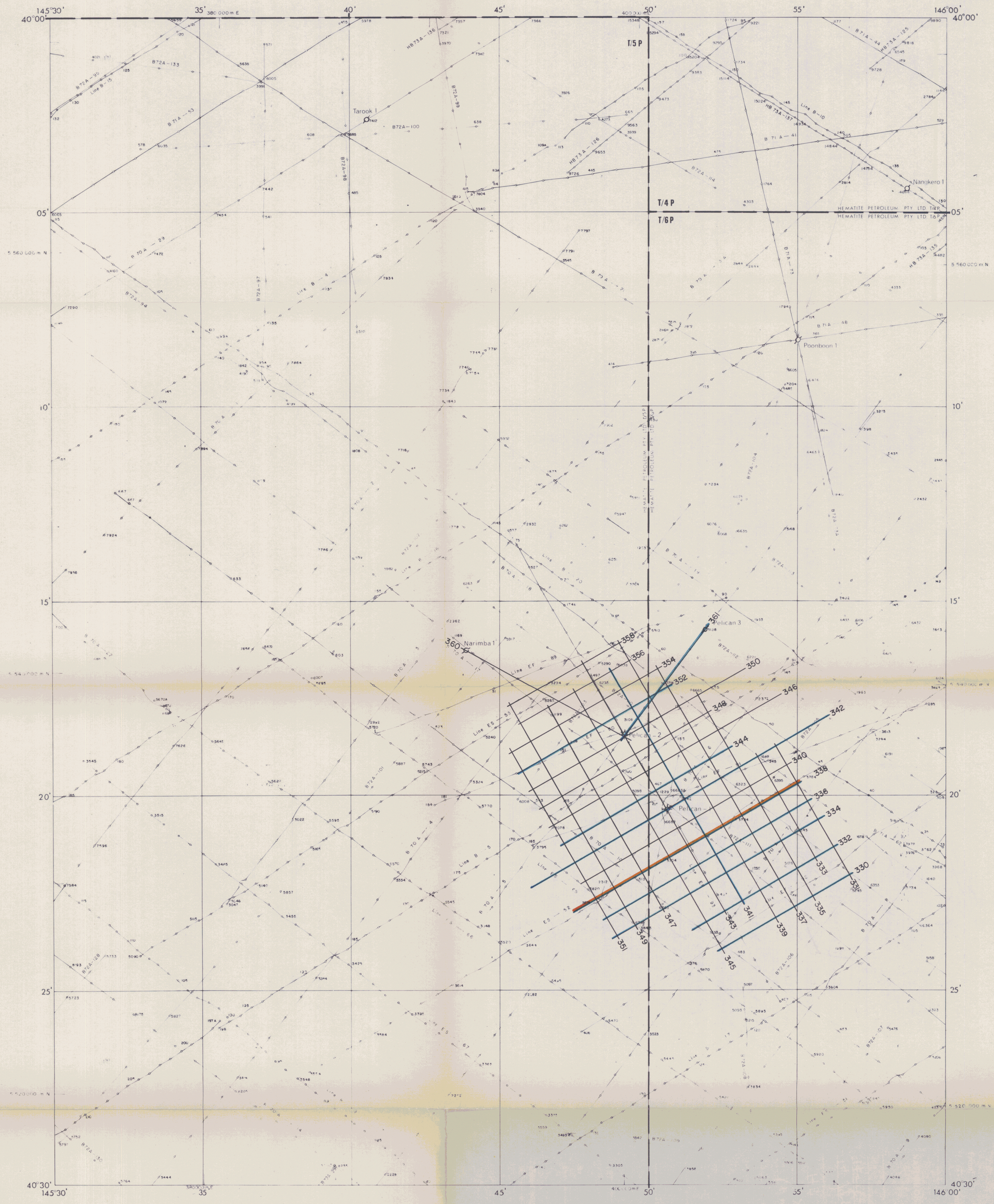
DATE : SEPT., 1974

PLATE

019008

CR-037

Dwg. No. 1660/091


145°30'
35'
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45'
50'
55'
146°00'
40°00'
05'
10'
15'
20'
25'
40°30'
T/5P
T/4P
T/6P
Tarook 1
Nangkero 1
Poonboon 1
Narimba 1
Pelican 3
Pelican 2
Pelican 1
HEMATITE PETROLEUM PTY LTD T/4P
HEMATITE PETROLEUM PTY LTD T/6P
HEMATITE PETROLEUM PTY LTD T/5P
Line B-10
Line B-15
Line B-4
Line EF-89
Line ES-53
Line ES-52
Line ES-67
Line B-5
Line B-20
Line E-93
Line E-91
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