

RAW DATA REPORT

TAROOK #1

OR_345A

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358003



Hematite Petroleum Proprietary Limited

440 COLLINS STREET, MELBOURNE • POSTAL ADDRESS: G.P.O. BOX 2752Y, MELBOURNE, VIC. 3001
TELEPHONE: 60 0331 • TELEGRAPH: "HEMEX" MELBOURNE • TELEX 30785

Mrs BWS *file*
Copy of everything
to have been
the *You allow to drill*
is approved

Our Ref. ^{hms} RPH:BRB:SW

11th September 1972

Your Ref.

The Designated Authority,
c/o Director of Mines,
Department of Mines,
G. P. O. Box 124B,
HOBART. TASMANIA. 7000

DO M	A.O.	CG	CC & M	D.M.E.
<input checked="" type="checkbox"/>				
RECEIVED				Registrar
13 SEP 1972				E & IL
ANSWERED				
DEPT OF MINES				
REF. No. 7141/72				

Dear Sir,

NOTICE OF INTENTION TO DRILL - TAROOK-1

We enclose the above notice together with two sets of illustrations for the subject well. We expect that the well will be drilled subsequent to the abandonment of Poonboon-1 and expect that Tarook-1 will spud-in during October. We wish to indicate that although Tarook-1 is a firm location, there is always the possibility that the drilling of the well may not follow Poonboon-1 as presently planned.

We should be pleased if you would grant your permission for us to drill the Tarook-1 well as outlined in our "Notice of Intention to Drill".

Yours faithfully,

R. P. Harrison

R. P. HARRISON
MANAGER OPERATIONS

Encl.

COMMONWEALTH OF AUSTRALIA
PETROLEUM (SUBMERGED LANDS)
ACT 1967-8

STATE OF TASMANIA
PETROLEUM (SUBMERGED LANDS)
ACT 1967

NOTICE OF INTENTION TO DRILL

The Designated Authority, Tasmania,

Hematite Petroleum Proprietary Limited, being the holder of Petroleum Exploration Permit No. T/5P hereby notifies its intention to drill a well and requests your permission to carry out the proposed operation.

I. Well

Tarook-1

Classification

Wildcat

II. Operator

Esso Australia Ltd.,
Esso House,
127 Kent Street,
SYDNEY. N. S. W.

Person-in-charge

L. Lipscomb,
Esso Australia Ltd.,
42 Raymond Street,
SALE. VIC.

Geological Supervision

A. C. Pierce,
Esso Australia Ltd.,
Esso House,
127 Kent Street,
SYDNEY, N. S. W.

III. Drilling Contractor

Global Marine
P. O. Box 531,
SALE. Victoria.

Drilling Rig

Glomar Conception

Date of Commencement

October 1972

IV. Details of Operation

Location

Latitude : 40° 02' 37.85" S

Longitude : 145° 40' 29.52" E

Water Depth

252 feet

Drilling Datum

32 feet above sea level

Coring Programme

10 inch @ 500 feet of penetration
13-3/8 inch @ 3000 feet ±
9-5/8 inch as required

Logging Programme

Run 1 :

After penetration of hydrocarbon column, or prior to setting 9-5/8 inch casing, run ISF/BHC Sonic, HDT, FDC-CNL-GR-CAL. Run GR-CAL to 13-3/8" casing shoe, FDC-CNL, and HDT to top of Eocene shale. Possible FIT's and CST's will be run.

Run 2 :

At total depth run ISF/BHC Sonic, HDT, FDC-CNL-GR-CAL. Possible FIT's and CST's will be run.

A velocity survey is scheduled prior to running 9-5/8" casing or at T. D.

Coring Programme

Core all significant hydrocarbon shows. In the absence of hydrocarbon shows, at least 3 cores will be cut in the Eastern View Group for facies analysis.

*56 mi N of Stanley
15 mi NW Bonboon*

Sample Collection

Continuous from the 20 inch casing shoe. Catch 5 sets of washed and dried samples and one sample of unwashed cuttings every 10 feet and one tin can of 10 foot samples every 100 feet.

Proposed Total Depth 8500 feet (alternative 10,000 feet)

Notification dated : 11th day of September 1972



RP. R. P. HARRISON
MANAGER OPERATIONS
HEMATITE PETROLEUM PTY. LTD.

14th September, 1972

The Manager, Operations,
Hematite Petroleum Pty. Ltd.,
G.P.O. Box 2752Y,
MELBOURNE. Vic. 3001

Dear Sir,

Tarook-1

Your application to drill the above well dated
11 September 1972 is approved.

Yours faithfully,



(J.G. Symons)
DIRECTOR OF MINES

Tenement Number	T5P
Operator	Esso Australia
Drilling Unit	Glomar Conception
Well	Tarook-1
Date of Report	5TH October, 1972
Location	
Latitude	40° 02' 37.85"S
Longitude	145° 40' 29.52"E
Water Depth	
Progress	
Current	2840'
Previous	-
Progress	<u>2840' feet</u>

Operations

The well spudded at 10.15 hours 3rd October 20 inch casing cemented at 703' on 3rd October. Drilled ahead 17½ inch hole to 2280' twisted off left 9 drill collars in hole recovered fish and drilled ahead 17½ inch hole to 2840'. Current operation conditioning hole prior to 13⅜" casing.

Geology

760' to 2840' limestone with abundant shell fragments.

WEEKLY DRILLING REPORT

D of M	A.O.	CG	CC & M	D.S.M.E.
RECEIVED				Registrar
16 OCT 1972				
ANSWERED				
DEPT OF MINES				
REF. No.				

Tenement Number T5P
 Operator Esso Australia
 Drilling Unit Glomar Conception
 Well Tarook - 1
 Date of Report 12th October, 1972.

Location :

Latitude 40° 02' 37.85" S
 Longitude 145° 40' 29.52" E

Water Depth 252 feet

Progress :

Current 7367'
 Previous 2840'
 Progress

4527 feet

Operations :

Run and cement 13 $\frac{3}{8}$ inch casing at 2804' on 8th October. Drilled out and tested formation to 18.2ppg equivalent.

Drilled 12 $\frac{1}{4}$ inch hole to 6426 feet - waited on weather - 10th October. Run in hole to cut core No. 1 from 6426 to 6466 feet, 100% recovery. Drilled ahead to 7367 feet.

Geology :

2840 - 5440	Marl-olive green to grey green calcareous, glauconitic and fossiliferous with a trace of pyrite. Increasing brown calcareous part-glauconitic <u>siltstones</u> and fine grained glauconitic sandstones.
5440 - 6350	Interbedded <u>siltstones</u> and <u>sandstones</u> , as above, and brown grey fossiliferous shale with a trace of mica. Coarse quartz sands from 6210 feet.
6350 - 6360	Lignitic silty coal
6360 - 6426	Interbedded coarse grained to pebbly <u>sandstones</u> with a trace of <u>pyrite</u> and <u>siltstones</u> , as above.
Core - I	6426 - 6460 feet Recovery 40 feet.

- 6426 - 6431 $\frac{1}{2}$ ' Grey fine-grained, sub-angular to sub-rounded friable sandstone.
- 6431 $\frac{1}{2}$ - 6432 $\frac{1}{2}$ Grey- very micaceous stale with a coaly streak.
- 6432 $\frac{1}{2}$ - 6466 Interdedded sandstones and minor shales.
- 6466 - 6580 Interdedded medium to coarse-grained sandstones and siltstones with minor lignitic coals.
- 6580 - 7270 Interdedded very fine grained, calcareous sandstones, pyritic in part with brown carbonaceous and micaceous siltstones and coals. Coals grey-brown to black with traces of amber.

RK
13/10/70

HEMATITE PETROLEUM PTY. LTD.

WEEKLY DRILLING REPORT

Tenement Number	T5P
Operator	Esso Australia
Drilling Unit	Glomar Conception
Well	Tarook - 1
Date of Report	19th October, 1972
Location :	
Latitude	40° 02' 37.85" S
Longitude	145° 40' 29.52" E
Water Depth	252 feet
Progress :	
Current	9100 feet
Previous	7367 feet
Progress	<u>1733 feet</u>
	<u>1733</u> feet

Operations : Drilled ahead to 8544 feet. Cut core No. 2 from 8544 feet to 8576 feet; 100% recovery. Drilled ahead to 9083 feet. Ran in hole to cut core No. 3 from 9083 feet to 9100 feet; 100% recovery. Ran ISFS log from 9090 feet to 2806 feet, GRF DCNL 9090 feet to 5500 feet. GR to casing shoe. Ran dipmeter 9082-5600 velocity survey. Took 51 sidewall cores; recovered 50. At report date preparations were being made for abandonment; set cement Plug No. 1 at 2900 feet to 2600 feet and running in hole to set cement Plug No. 2 at 560 feet to 360 feet.

Geology : 7367 to 8544 feet. Interbedded sandstone and siltstone with minor coals.
Sandstone - tan to light brown, very fine to medium grained slightly silty and pyritic with a dolomitic matrix.
Siltstone - brown and carbonaceous.

Core No.

Core No. 2 8544 feet to 8576 feet. Recovery 32 feet.

8544 to 8569 feet. Interbedded sandstones and shales
Sandstone - light grey to brown grey, fine grained, micaceous and slightly dolomitic.
Shale - dark grey carbonaceous and micaceous, slightly silty.

8569-8576 Shale as above with occasional thin siltstone and sandstone stringers.

8576-8930 Interbedded sandstones, siltstones, shales and coals as above.

8930-8990 Fine grained, tan to light brown, slightly calcareous sandstone; sub angular to sub-rounded grains with moderate to good sorting and a clayey matrix.
 Minor siltstones and shales as above.

8990-9085 Shale and igneous material with minor sandstones, siltstones and shales as above.
Igneous Material - a green-grey igneous intrusive rock with brown and black mafics. Fine grained igneous texture with a glassy appearance.
Coal - hard, black and buillec with conchoidal fracture.

Core No. 3 9083-9100 feet. Recovery 17 feet.

9085-9095½ Shale - dark grey to grey brown, very micaceous and silty; top appears 'baked'.

9095½-9098½ Interbedded coal and shales as above.

9098½-9100 Interbedded siltstone and shale with a 3-inch very fine-grained, induraled non-calcareous sandstone at base.

WEEKLY DRILLING REPORT

Tenement Number	T5P
Operator	Esso Australia
Drilling Unit	Glomar Conception
Well	Tarook - 1
Date of Report	26th October, 1972.
Location :	
Latitude	40 ^o 02' 37.85" S
Longitude	145 ^o 40' 29.52" E
Water Depth	252 feet
Progress :	
Current	9100 feet
Previous	<u>9100 feet</u>
Progress	<u>-</u>

Operations :

Set cement plug No.2 at sea floor. Tagged No. 2 plug and pulled riser and stack Recovered wellhead equipment and anchors and moved off location at 1200 hours on 21/10/72.

Geology :

358014

Jarvis-1

pg 2

D of M

4/10/72

Morning Report Hametiti

Gloman moved to TAROOA
& spudded in at 1015 hrs 3rd Oct 72

Set 20" casing at 703'

at present preparing to run
stack & expect to recommence
drilling later today.

20

D.

358015

PS/2

Wardma title

Towark No/

5/10/72.

Depth 2280'

Fishing not drilling

with 100% 1st abundance shell

PCD

10.20

9

Deneckto6/10/72

Tanook. 1

Depth 2840'

recovered from

pulling out for trip.

no change in lithology.

Probably set casing over
weekend.

g

✓

No. 1 Report

TARCOOT.

9 October

Cement depth 5505' drilling ahead
 - Same last report marks &
 Silblow's - Set 13 3/8 pm at 2840'
 lost returns one antenna 5170-5250'
 mudstone up & returned circulation.

- Expect to be in top of
 Eastern V. local measures
 by tomorrow

J

Q

10th October

Morning Report

TARROCK 1.

present depth 6260'

Trying to determine top of Eastern View
 local measures as this was the target
 for this hole.

Geology - 6140 - 6210 Siltstone & shale
 6210 - 6260 shale & cross-bedded

sandstone - silt & fine sand with some
 coarse grains.

Top of Eastern View plume pronouncedly
 somewhat within this sequence but no
 carbonaceous bands at present.

no steel.

no fluorescence.

Will check on & take a core at
 just identifiable sandstone but these
 are very hard to pick from drilling note.
 Still intend to push on to about
 9000'

J

Q

1arrule 1

358019

Copy for Mr. Symons.

98/2
F. S. S.

Mr. Bunny Brown of Hematite, Melbourne

phoned at 9.40 a.m. this morning - Thursday 12th. October. 1972

(W. Murtagh)

He said -

The depth this morning is 6651' and we waited on the weather for about 24 hours until 11.a.m. yesterday morning. We cut Core 1 from 6426 to 6466 - it was interbedded sandstones, shales and siltstones. When we got back to drilling we drilled from 6466 to present depth 6651' and the lithology was similar to the core.

There are no shows and we are drilling ahead.

Q

358020

Tarrock 1

p8/2

Copy for Mr.I.B.Jennings.

Mr. Bunny Brown of Hematite, Melbourne

phoned at 9.40 a.m. this morning - Thursday 12th. October. 1972

He said -

(W.Murtagh)

The depth this morning is 6651' and we waited on the weather for about 24 hours until 11.a.m. yesterday morning. We cut Core 1 from 6426 to 6466 - it was interbedded sandstones, shales and siltstones. When we got back to drilling we drilled from 6466 to present depth 6651' and the lithology was similar to the core.

There are no shows and we are drilling ahead.

ISS.

358021

13/10/72

P8/2

Brown

Naematite

10.30

Tanark No.)

7367'

drilling ahead

sst silts & coals

coal 6840 - 7050

sst are silts - granules
w. carb silts,

no gas →

Poss to ? 8500

of.

P.U.

Larook I

18/10/72

Depth 9083'

continued in sandstones, siltstones,
shale & coal beds

A 9040' sub igneous rock - ~~to~~
extended to bottom of hole.

Pulled out to rig for coring.
Will probably run logs and
decide whether to drill through
igneous or not

P 2

Larook I

358023

P8/2

19-10-72

Depth 9100'

Cored 9083'-9100' 100% recovery.
cut shale - coal - shale - siltstone, upper
part almost a hornfels - seems to be an
intrusion

Logs run across thermally metamorphic zone
from 8990' down

Igneous material indicated on logs 9030'-9064'

Combustion Indicator/sonic log 9090'-2806' (carry
shale)

G.R.F.D. CAL logs 9096-5500

G.R. log 9096-2806'

Logs and core samples urgent to Sydney for
decision on abandonment.

Velocity survey being run and will drill
ahead waiting decision.

Proposed depth 9200' ~~should~~
be reached.

Probably decision tomorrow

~~D~~

TAROOK-1ABANDONMENT PROCEDURE

13-3/8" surface casing set at 2804' KB

No Hydrocarbon Zones below surface casing

<u>Plug No.</u>	<u>Interval</u> MD - KB	<u>Cement</u>	<u>Remarks</u>
1.	2900' - 2600'	220 sks. Aust. 'N'	Bottom of plug 100'± below surface casing shoe
2.	560' - 360'	140 sks. Aust. 'N' + 2% cacl ₂	Feel for top of plug after setting. Top 65'± below mud line.

Before final abandonment, recover wellhead by cutting casing 50'±
below mud line.

E. M. Case
Engineering

J. E. Case
Operations

358025

TAROOK 1.



Hematite Petroleum Proprietary Limited

440 COLLINS STREET, MELBOURNE • POSTAL ADDRESS: G.P.O. BOX 2752Y, MELBOURNE, VIC. 3001
TELEPHONE: 60 0331 • TELEGRAPH: "HEMEX" MELBOURNE • TELEX 30785

my SW for BMR file

Our Ref. ^{HAS} RPH:JS:SW

Your Ref.

23rd October 1972

The Designated Authority,
c/o Director of Mines,
Department of Mines,
G. P. O. Box 124B,
HOBART. TASMANIA. 7000

D of M	A.O.	CG	CC & M	D.S.M.E
				Registrar
RECEIVED		27 OCT 1972		E & IL
ANSWERED		DEPT OF MINES		
REF. No.		8181/72		

Dear Sir,

TAROOK NO. 1 WELL

*Records
place on
Tarook file*

Please find enclosed a revised interpretation of the Tarook
Prospect as received from Esso.

Yours faithfully,

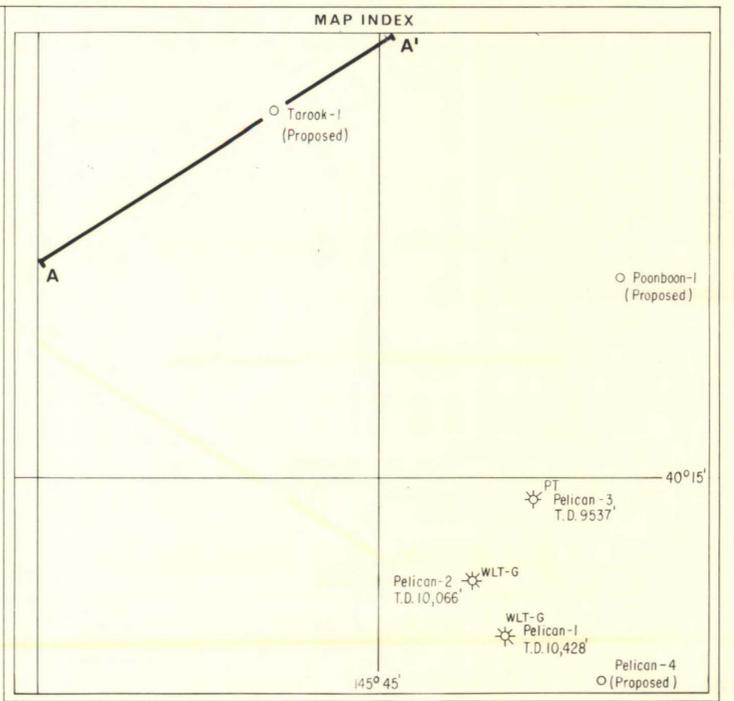
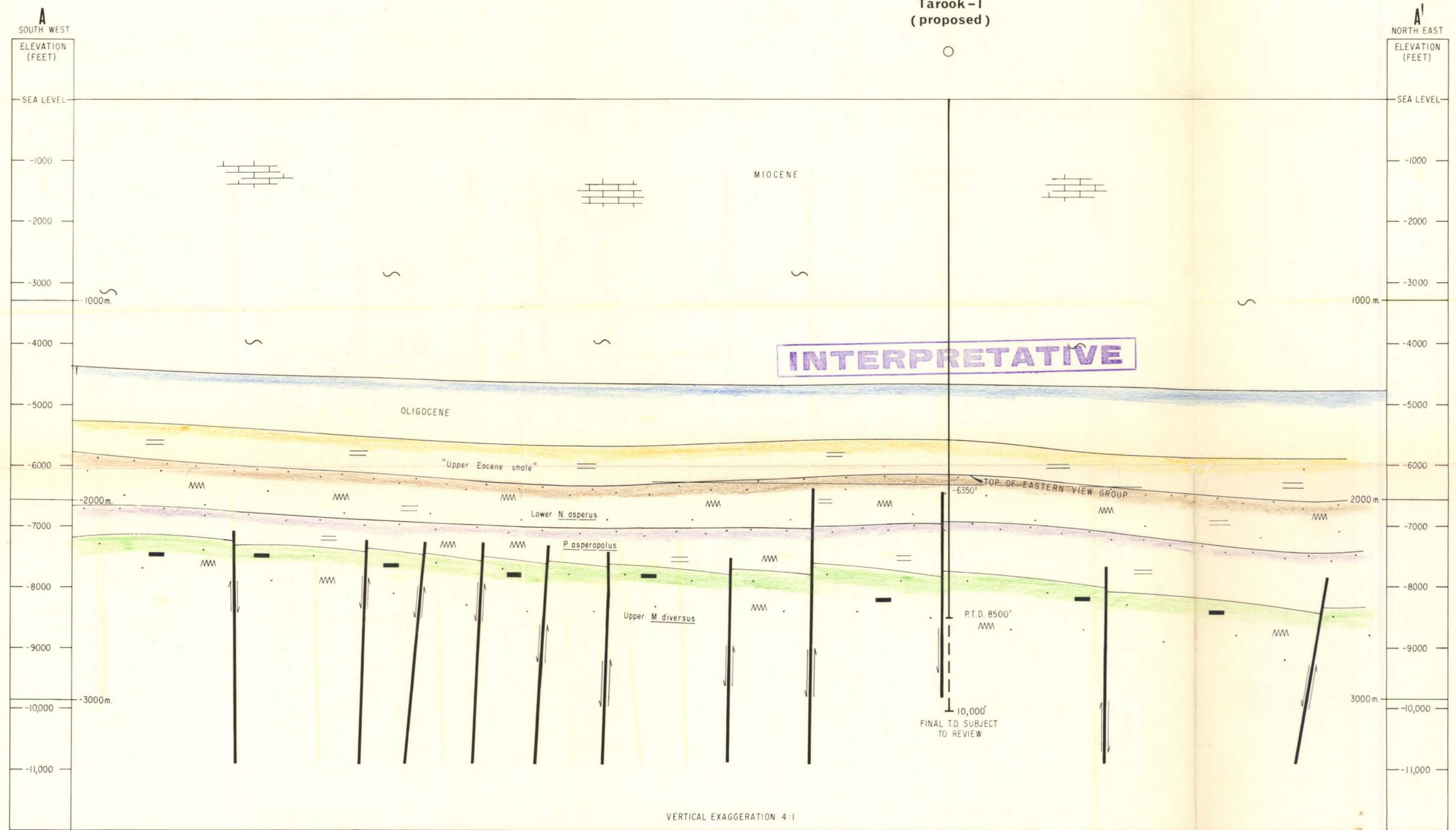
R. P. Harrison

R. P. HARRISON *u/h*
MANAGER OPERATIONS

Encl.

Tarook-1
(proposed)

INTERPRETATIVE



LEGEND

	Limestone		Sand
	Marl		Coal
	Shale		Siltstone

ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.

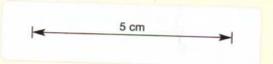
BASS BASIN

VICTORIA - TASMANIA

INTERPRETATIVE

TAROOK PROSPECT

GEOLOGICAL CROSS SECTION A-A'



Vertical Scale 1 in. = 1000 Feet
Horizontal Scale 1:50,000



358026

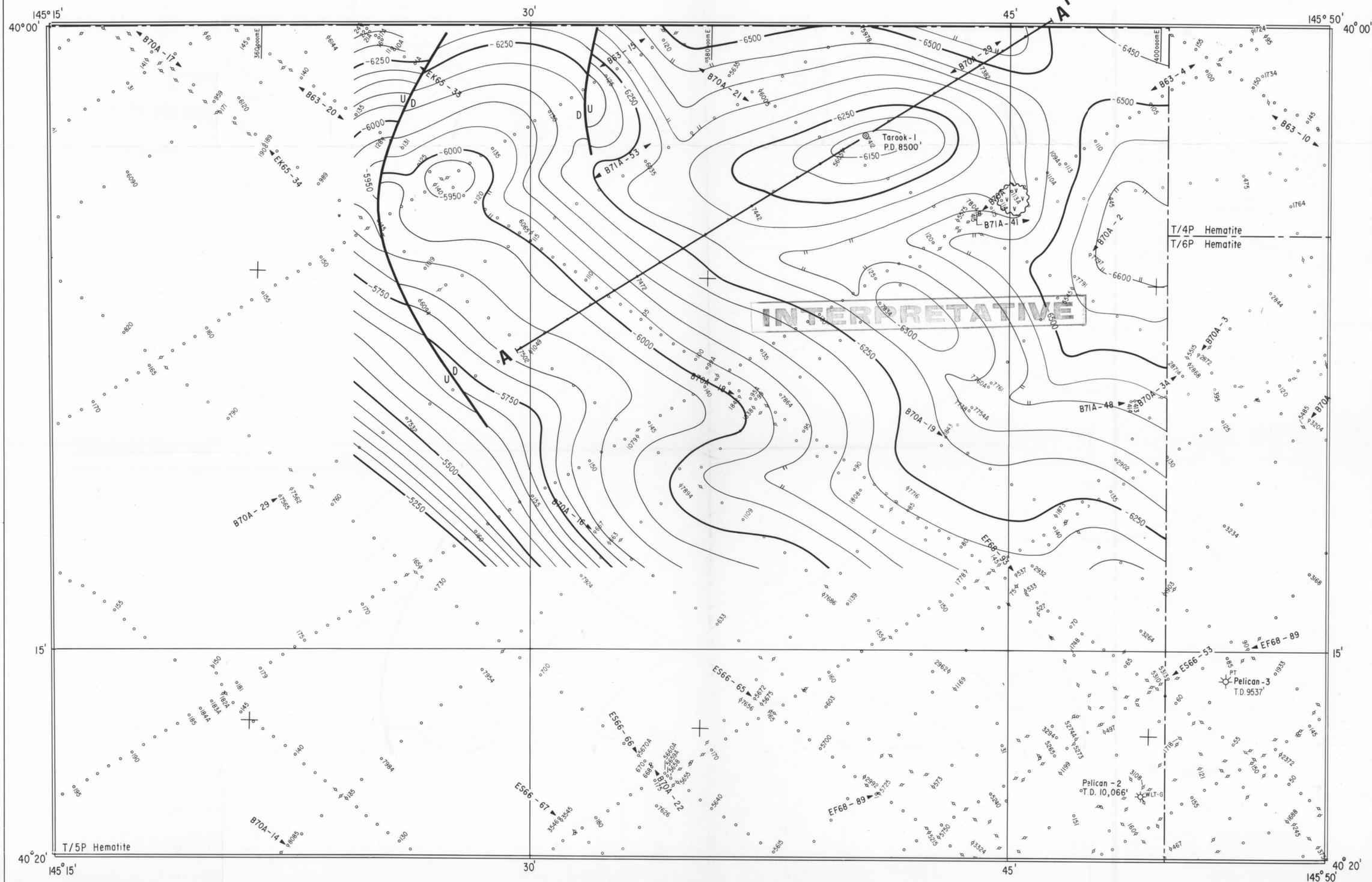
AUTHOR: F. JEFFRIES, W.H. BASSETT

DRAFTED BY: J.R. SCHMIDT

TO ACCOMPANY: AUTHORISATION TO DRILL
TAROOK-1

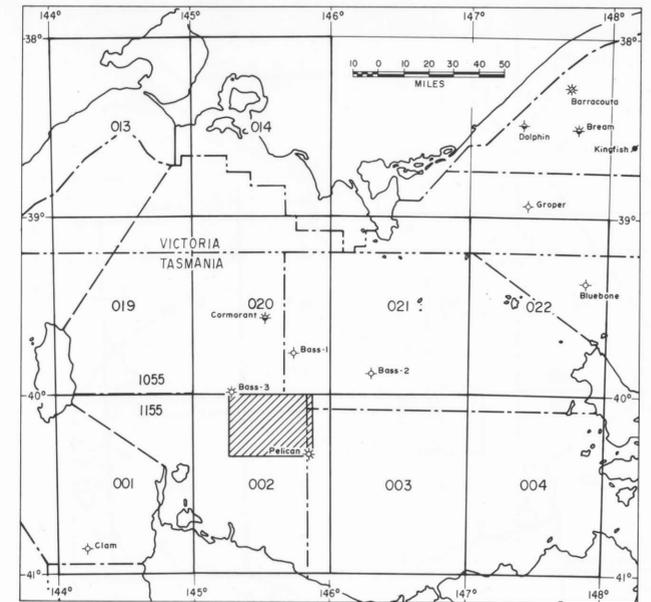
DATE: MAY, 1972

PLATE I



INTERPRETATIVE

MAP INDEX



VOLCANICS

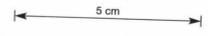
ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.

THE BASS BASIN

TASMANIA

TAROOK PROSPECT

STRUCTURE MAP
TOP OF EASTERN VIEW



CONTOUR INTERVAL: 50 FEET

DATUM: SEA LEVEL

Scale 1:100,000



TRANSVERSE MERCATOR PROJECTION, A.M.G. ZONE 55

AUTHOR: W.H. BASSETT

DRAFTED BY: R.L. RYNSBERGEN

TO ACCOMPANY: AUTHORIZATION TO DRILL
TAROOK-1

DATE: MAY, 1972

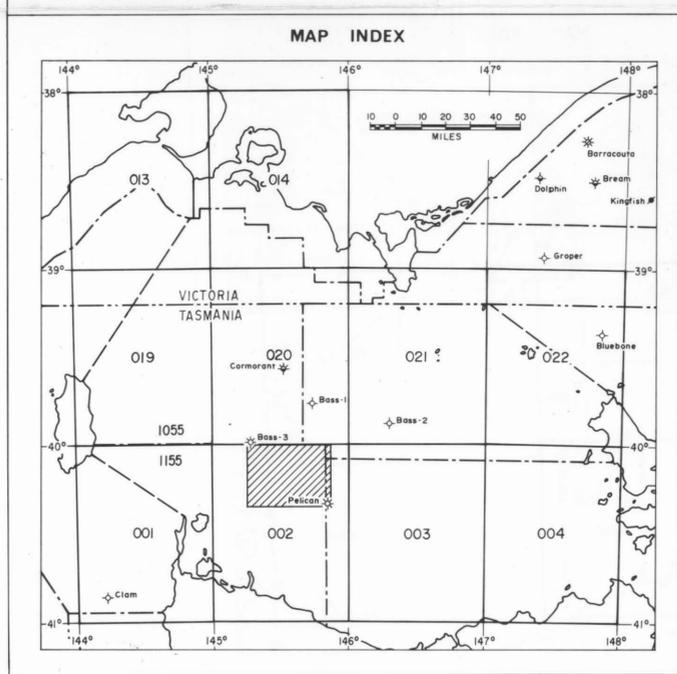
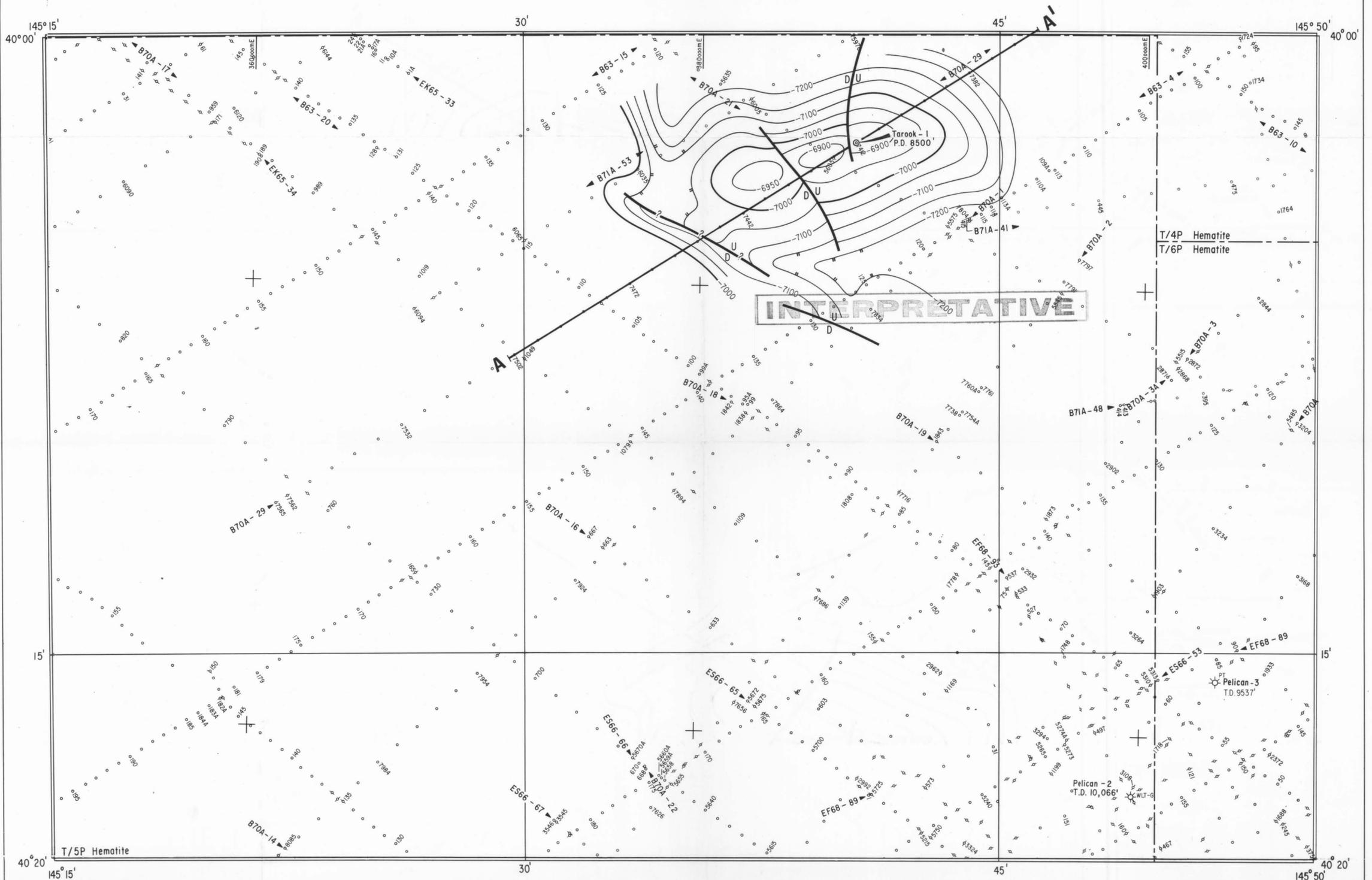
REVISED:

SHEET

358027

PLATE II

OR-0345A



ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.

THE BASS BASIN

TASMANIA

TAROOK PROSPECT

STRUCTURE MAP

Top *P. asperopolus*

358025

CONTOUR INTERVAL: 50 FEET DATUM: SEA LEVEL

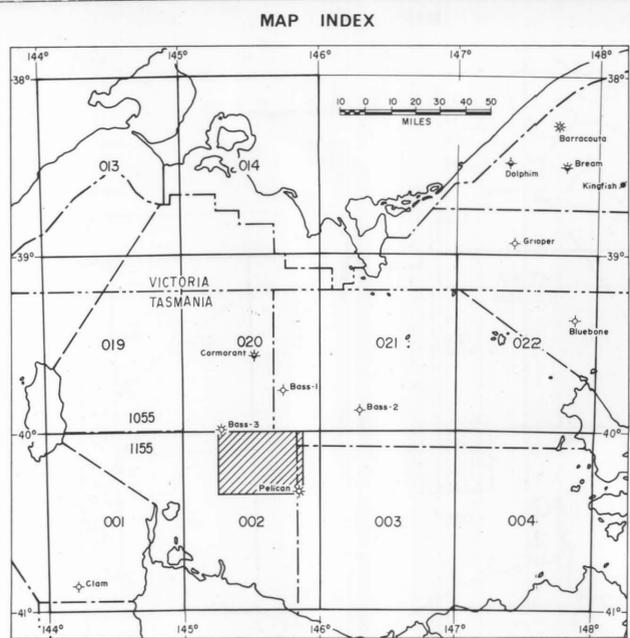
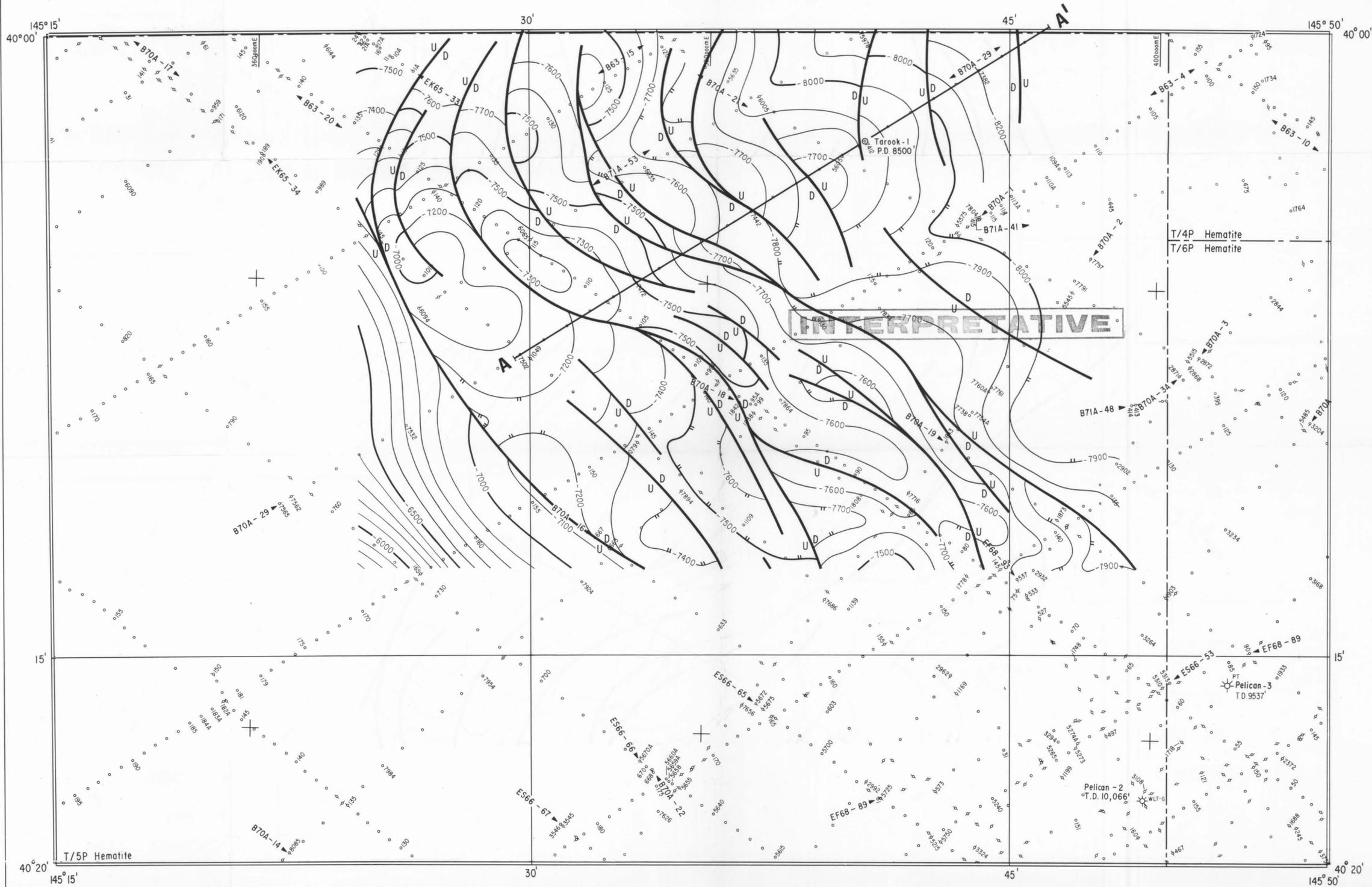
Scale 1:100,000

2 0 2 4 Miles
2 0 2 4 Kilometres

TRANSVERSE MERCATOR PROJECTION, A.M.G. ZONE 55

AUTHOR: W.H. BASSETT DRAFTED BY: J. COSENTINO
TO ACCOMPANY: AUTHORIZATION TO DRILL TAROOK-1 DATE: MAY, 1972
REVISSED:

SHEET PLATE III



ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.

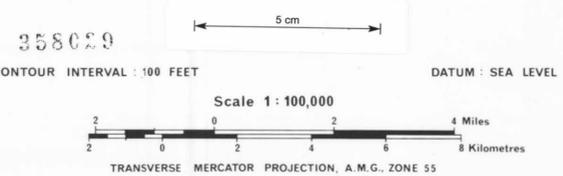
THE BASS BASIN

TASMANIA

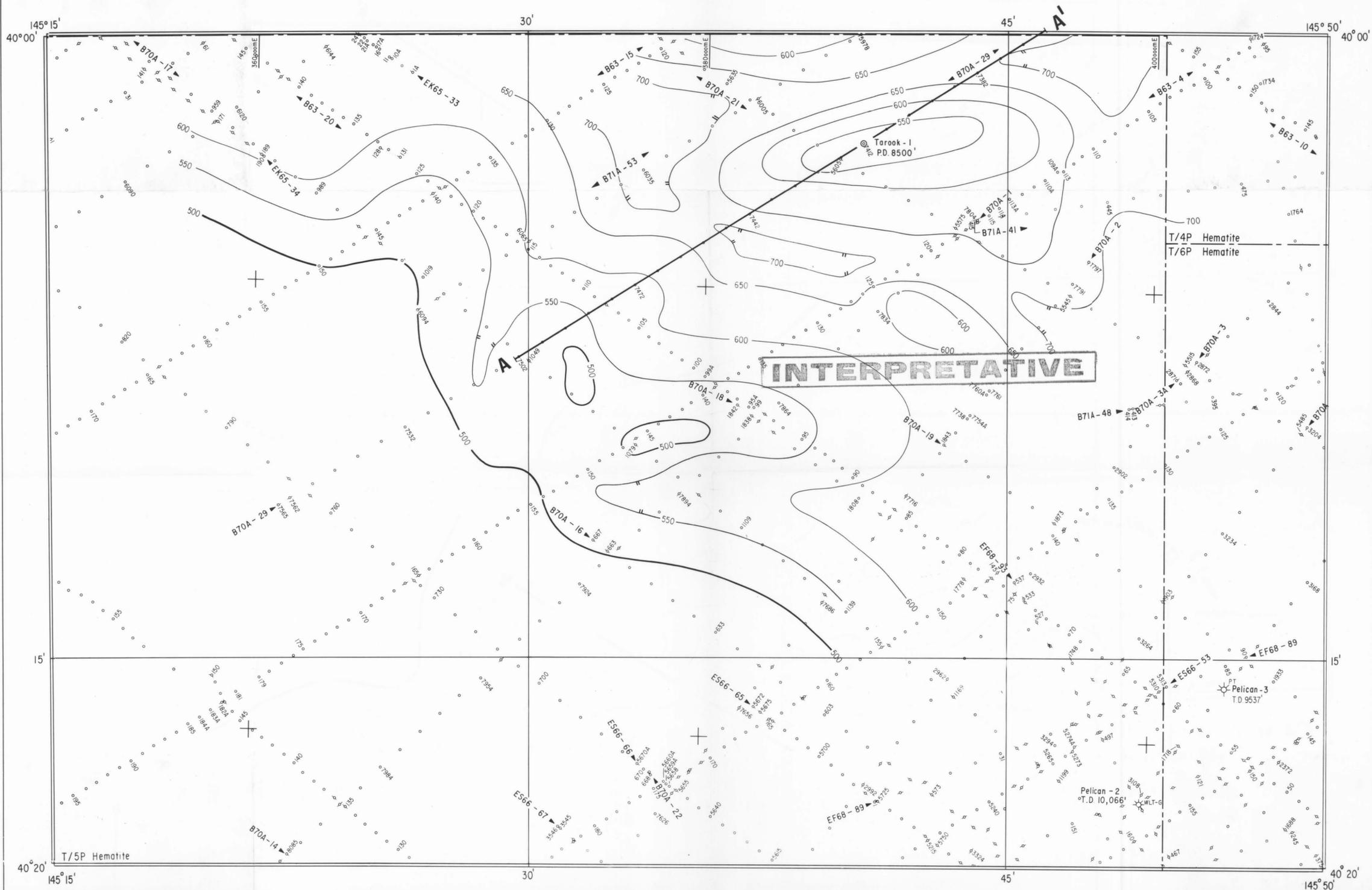
TAROOK PROSPECT

STRUCTURE MAP

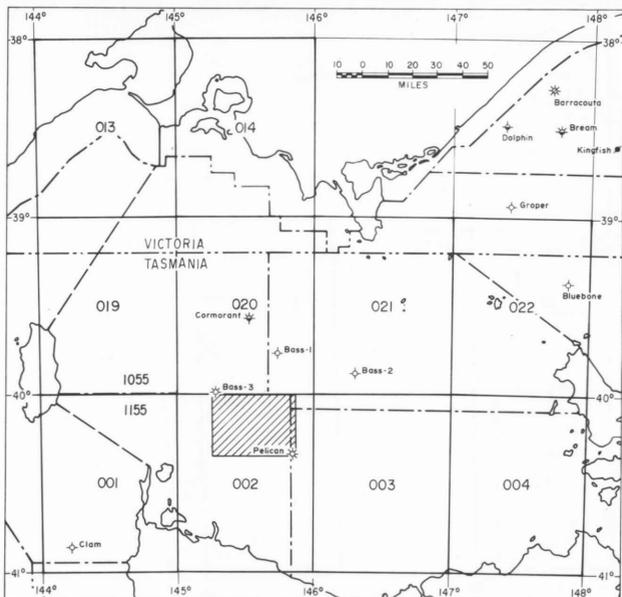
Top M. diversus



AUTHOR: W.H. BASSETT
 TO ACCOMPANY: AUTHORIZATION TO DRILL TAROOK-1
 DRAFTED BY: R. WILSON
 DATE: MAY, 1972
 REVISED:
 SHEET
 PLATE IV



MAP INDEX



ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.

THE BASS BASIN

TASMANIA

TAROOK PROSPECT

ISOPACHOUS MAP
TOP OF EOCENE TO TOP OF EASTERN VIEW

5 cm

CONTOUR INTERVAL: 50 FEET

DATUM: SEA LEVEL

Scale 1:100,000



TRANSVERSE MERCATOR PROJECTION, A.M.G. ZONE 55

AUTHOR: W.H. BASSETT

DRAFTED BY: HOVICK

TO ACCOMPANY: AUTHORIZATION TO DRILL
TAROOK-1

DATE: MAY, 1972

REVISED:

SHEET 358030

PLATE V

Dwg. 1467/OP/5

OR-0345A

ENCLOSURE VI
358031

5 cm

TAROOK - 1

Proposed location
(Offset approx 4000 NE)

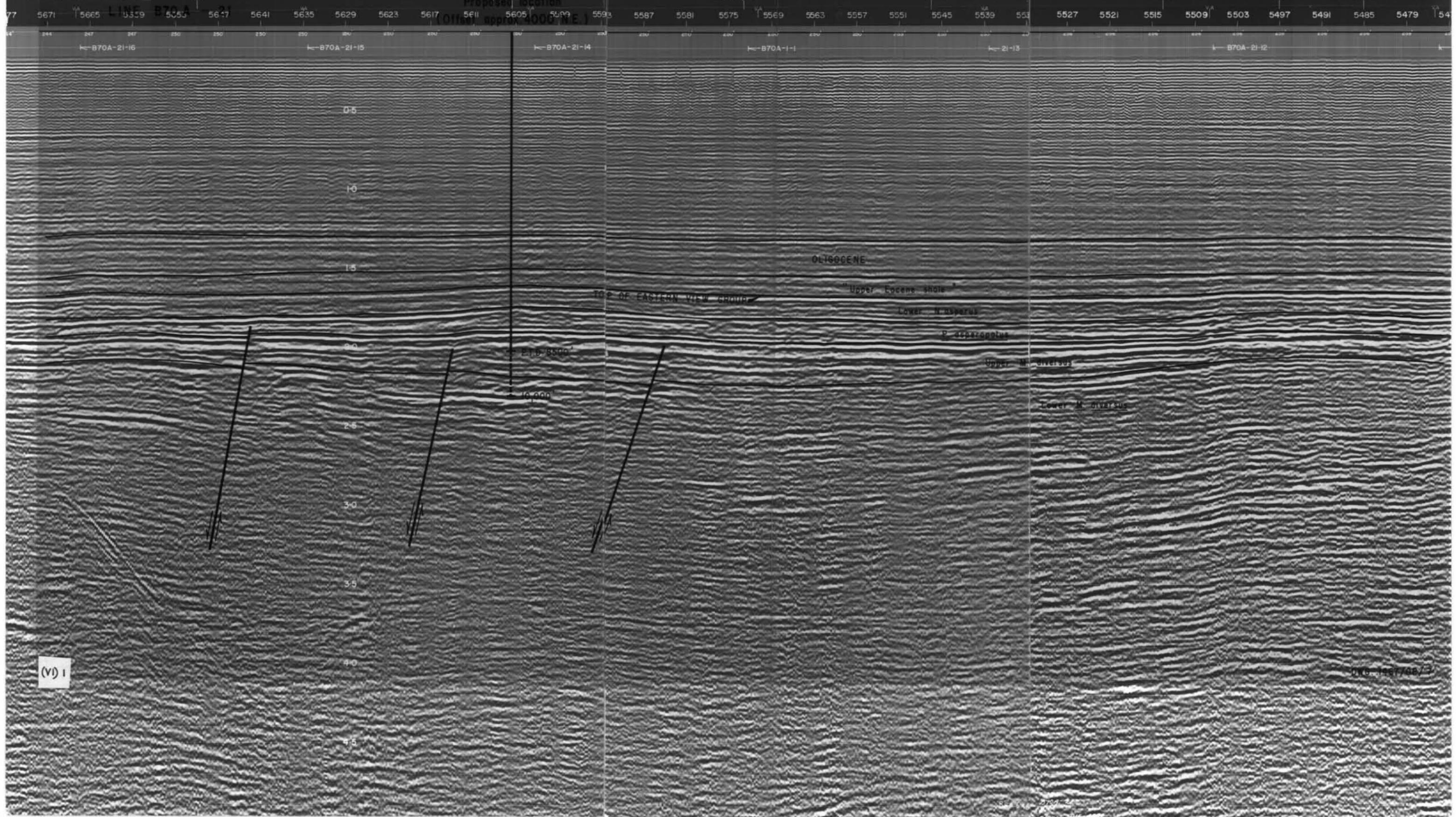
LINE B70A-21

21

SE

LINE B70A-21

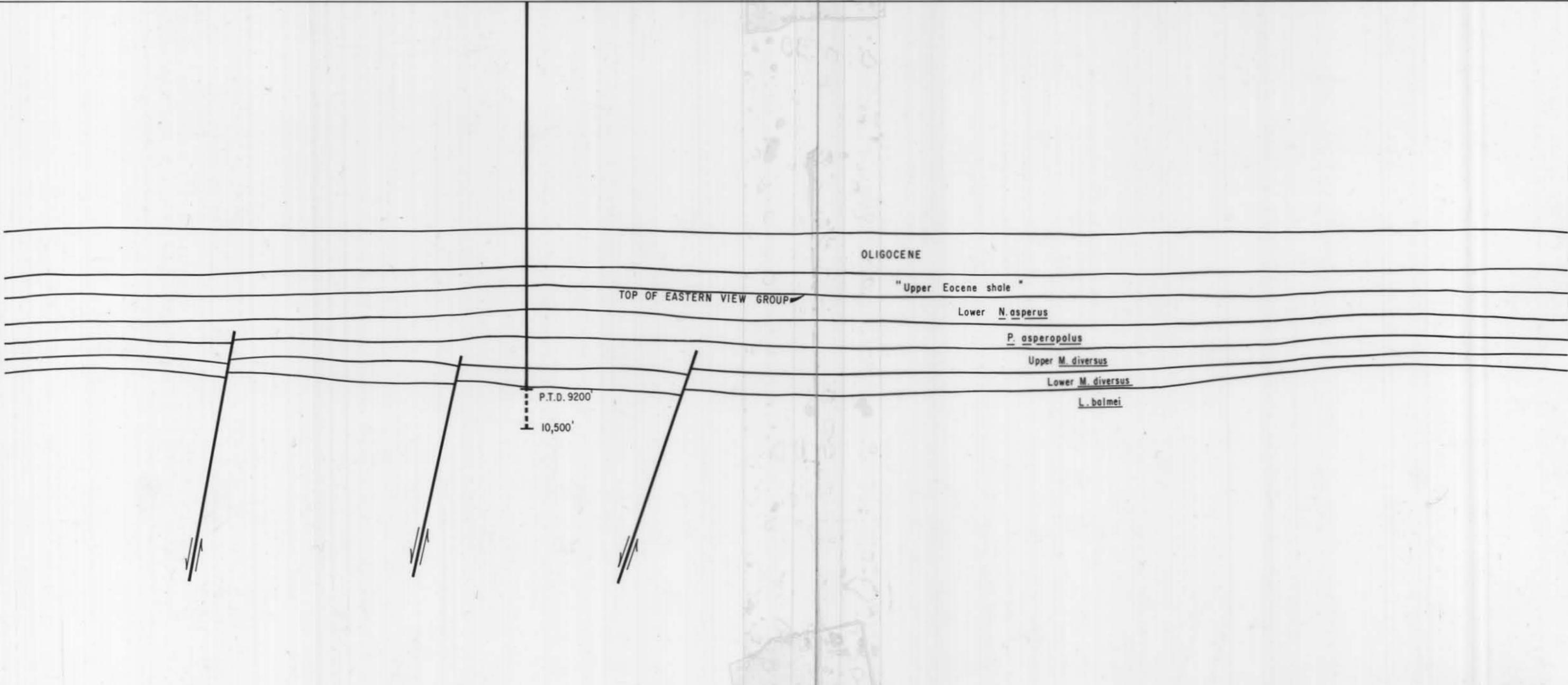
21



(V) 1

DWB 1997/08/2

TAROOK - I
Proposed location
(Offset approx. 4000' N.E.)



5 cm

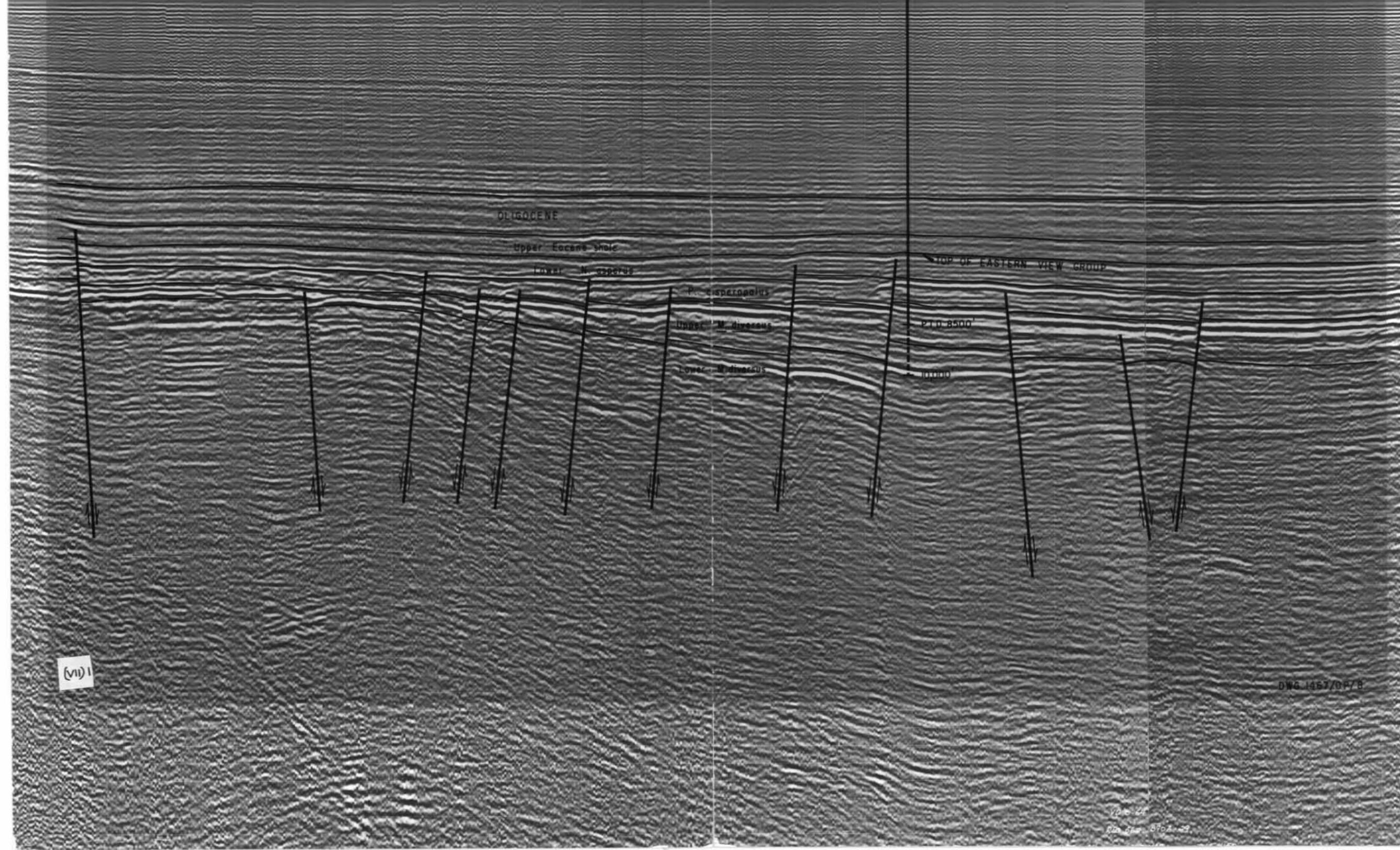
358033
ENCLOSURE VII

LINE B70A-29

LINE B70A-29

7520 7514 7508 7502 7496 7490 7484 7478 7472 7466 7460 7454 7448 7442 7436 7430 7424 7418 7412 7406 7400 7394 7388 7382 7376 7370 7364 7358 7352

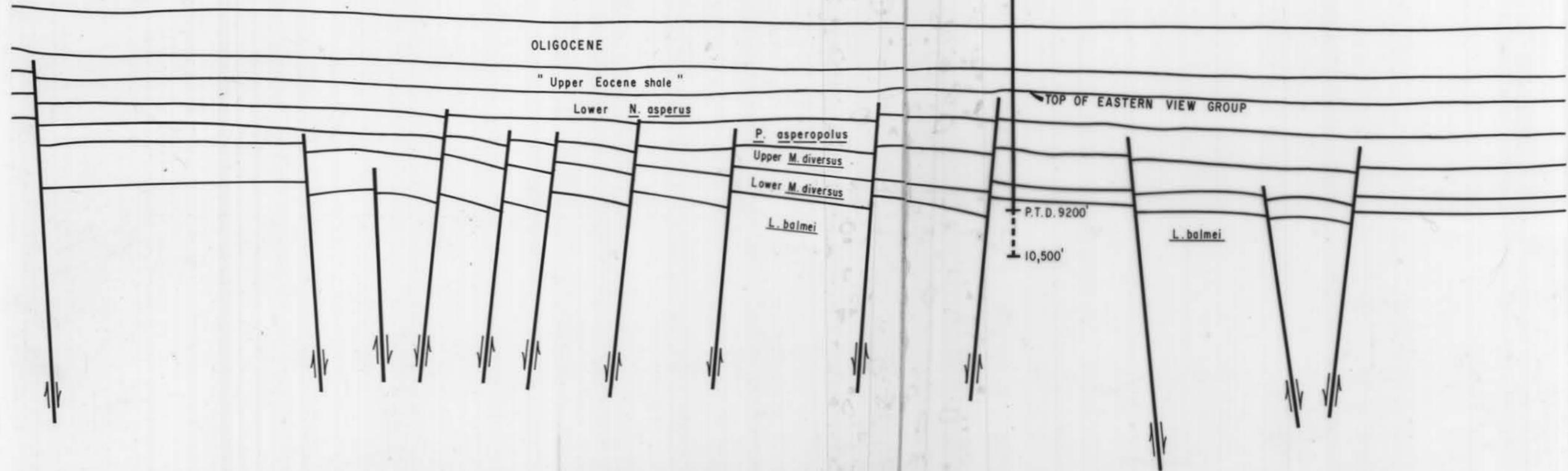
B70A-29 II B70A-29 IO B70A-29 9 B70A-29 8 B70A-29 7 B70A-29 6



(M) I

DWG 1467/0P/B

1/26/24
B70A-29



(vi) 2.