

Hematite Petroleum Pty. Ltd.

Dondu #1

Contents:

Weekly Drilling Reports

Daily Drilling Reports

Drilling Program

Notice of Intention to Drill

Plates:

1. Dondu Area - Structure Map - Top Eastern View Group
2. Dondu Area - Structure Map - Top Lower M.diversus
3. Dondu Area - Isopachous Map - Top Eastern View Group -Top Lower M.diversus
4. Dondu Prospect – Geological Cross Section A-A¹
5. Dondu Prospect – Geological Cross Section B-B¹

OR-337A

HEMATITE PETROLEUM PTY. LTD.WEEKLY DRILLING REPORTDONDU-1

Operator : Esso Australia Limited

Drilling Unit : Glomar Conception

Location : Latitude : 39^o 59' 12.209" South
Longitude : 146^o 13' 0.890" East

Water Depth : 275 feet

Drilling Datum : 32 feet above sea level

Date of Report : 1st June, 1973

Progress : Current 2854'
Previous 0
Progress 2854'

Operations : Glomar Conception arrived on location 30th May, 1973, and well spudded same day. 20 inch casing cemented at 718 feet 31st May, 1973. 17 $\frac{1}{2}$ " hole drilled to 2854 feet. Preparing to run 13 $\frac{3}{8}$ " casing at report date.

Geology : Limestones to 2780 feet.
Marls to 2854 feet.

HEMATITE PETROLEUM PTY. LTD.WEEKLY DRILLING REPORTDONDU-1

Operator : Esso Australia Limited

Drilling Unit : Glomar Conception

Location : Latitude : 39^o 59' 12.209" South
Longitude : 146^o 13' 0.890" East

Water Depth : 275 feet

Drilling Datum : 32 feet above sea level

Date of Report : 11th June, 1973

Progress : Current 7456
Previous 2854
4602
Progress 4602 feet week ending 8th June.

Operations : Cemented 13³/₈ inch casing at 2809 feet on 2nd June. Drilled 12¹/₄ inch hole to 5623 feet 10.00 hours 4th June, waited on weather, resumed drilling 10.30 hours 5th June, drilled 12¹/₄ inch hole to 7456 feet. Repairing draw-works at report date.

Geology

2854-3290 : Marl grey green.

3290-5230 : Mudstone grey green to medium grey slightly calcareous, fossiliferous and pyritic in part. Brown glauconitic siltstone and fine grained quartz sand well sorted, rounded to sub-rounded 4010 to 4130 feet. Brown siltstone interbeds from 4130 feet became dark red brown weakly calcareous pyritic and arenaceous from 5120 feet. Rare dolomitic sandstone white to tan below 4160 feet to 5120 feet.

5230-5430 : Siltstone dark red brown non-calcareous with thick sandstone coarse to granule grade quartz grains, well sorted, sub-rounded 5310-5436.

- 5430-5623 : Sands no record of lithology available.
5623-5720 : Shale chocolate brown silty.
5720-7456 : Coal Measures

Interval comprises interbedded sandstone fine to medium to coarse grained to very coarse grained, grains sub-angular to sub-rounded, sandstones very fine grained below 7440 feet.

Shale grey green to tan to light brown carbonaceous, dark brown below 7380 feet.

Siltstones tan to white appears below 6760 feet.

Coals black shiny transparent and particularly at 5720, 5810, 6580, 6630, 6650, 6690, 6840, 6980, 7170, 7250 and 7370 feet.

10/1

WEEKLY DRILLING REPORT

DONDU-1

Operator Esso Australia Ltd.
Drilling Unit Glomar Conception
Location Latitude: 39°59'12.209" South
Longitude: 146°13'0.890" East
Water Depth 275 feet
Drilling Datum 32 feet above sea level
Date of Report 15th June, 1973.
Progress Current 8797'
Previous 7456
Progress 1341'

Operations Repairing drawworks 9th June; resumed drilling 0400 hours 10th June; drilled 12 $\frac{1}{4}$ inch hole to 7674 feet. Cored Core-1 7674 to 7733 feet 100% recovery, drilled 12 $\frac{1}{4}$ inch hole to 8468 feet and logged 14th June. Ran ISF, BHCS, GKFDNL. Drilled 12 $\frac{1}{4}$ inch hole to 8760 feet, twisted off 15th June; fishing at report date.

Geology

7380-8797 Shale - light to dark brown, silty, carbonaceous, slightly micaceous, with sandstone beds very fine grained to fine grained, silty and coarser beds coarse to very coarse grained, poorly consolidated, in beds up to 4 feet thick. Siltstones, tan to white, slightly carbonaceous and argillaceous. Coals far less numerous than above 7380 thin, black brittle, less important below 7900 feet.

Shows

Gas readings showing minor amount of C₅ have been recorded from 7830 feet to 8797 feet. High gas readings above 7830 feet were generally observed opposite coals. Thin sands 7640-7674 feet 7940-7960 feet displayed yellow fluorescence and cut, further traces were seen at 7990-8040 and 8280 feet.

A preliminary examination of logs indicate all sands as water bearing. On site core analysis on sands recorded porosities 17% to 21% and permeabilities 11 md to 356 md.

1/16

HEMATITE PETROLEUM PTY. LTD.WEEKLY DRILLING REPORTDONDU-1

Operator	Esso Australia Limited
Drilling Unit	Glomar Conception
Location	Latitude : 39 ⁰ 59' 12.209" South Longitude : 146 ⁰ 13' 0.890" East
Water Depth	275 feet
Drilling Datum	32 feet above sea level
Date of Report	22nd June, 1973
Progress	Current 9544' Previous 8797' <u>747'</u>
Operations	Recovered fish at 8797 feet. Drilled 12 $\frac{1}{4}$ inch hole to 8810 feet twisted off upper bumper sub 16th June. Recovered fish drilled ahead 12 $\frac{1}{4}$ inch hole to 9544 feet. When pulling out of hole from 9544 pipe stuck at 3805 feet 20th June. Backed-off at 2767 feet, attempted to jar fish loose, failed, spotted pipe lax, jarred fish did not come free. Free point at 3352 feet. Ran in hole with spear assembly screwed into fish at 2767 feet, washed over fish from 3340 to 3575 feet. Recovered fish. Pulling out of hole at report date.

Geology

8797-9544

Interbedded Shale Siltstone and Sandstone.

Shales light brown carbonaceous fissile becoming dark grey to dark brown very carbonaceous from 9370 feet.

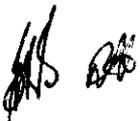
Siltstones light brown argillaceous carbonaceous and micaceous.

Sandstones very fine grained poorly sorted calcareous cement with thin coarse grained quartz sands. At 9540 feet sandstones are white fine grained with trace medium grained quartz silty and non-calcareous slight fluorescence.

2.

Shows

Gas chromatograph results indicate minor amounts of C₅ homologues in the interval 8797 to 9080 feet, amounts of gas fall off from the last depth to 9544 and only C₁, C₂, C₃ homologues are identified. Nil fluorescence and nil cut through-out; except minor fluorescence in interval 9540 to 9544 feet.



HEMATITE PETROLEUM PTY. LTD.WEEKLY DRILLING REPORTDONDU-1

Operator Esso Australia Limited

Drilling Unit Glomar Conception

Location Latitude : 39° 59' 12.209" South
Longitude : 146° 13' 0.890" East

Water Depth 275 feet

Drilling Datum 32 feet above sea level

Date of Report 29th June, 1973

Progress Current 9603 feet
Previous 9544 feet
59 feet

Operations Recovered Fish 23rd June, ran in hole to 9514 feet, pulled out due to bad weather; released riser at 0500 hours 24th June, resumed drilling operation 1200 hours 25th June. Ran in hole, bridge at 5820 feet. Pipe stuck. Backed off at 5316 feet. Screwed into fish 2nd attempt jarred fish free 26th June. Resumed drilling; drilled 12-1/4 inch hole to 9603 feet on 27th June. Logged; ran GRFDCNL 9608 to 8300 feet, FIT No. 1 9550 feet, HP 5500 psi., FSIP 5175 psi. FIT tool stuck, fished for tool and line 28th June, recovered fish with side door overshot. Resumed logging, ran ISF 9602 to 8300 feet, BHCS from 9600 feet to 8300 feet HDT 9606 to 5300 feet and deviation survey to 1500 feet, Velocity Survey. Mud weight up to 10.7 ppg.

Geology

9544 - 9603

Sandstone very fine grained. Cuttings mainly shale cavings.

WEEKLY DRILLING REPORT.

DONDU-1

Operator Esso Australia Limited.
Drilling Unit Glomar Conception
Location Latitude : 39°59'12.209" S.
Longitude : 146°13'0.890" E.
Water Depth 275 feet
Drilling Datum 32 feet above sea level
Date of Report 6th July, 1973.
Progress Current 9603'
Previous 9603'
Nil

Operations

Completed logging, shot 60
sidewall samples, recovered 57.
Plugged and abandoned well at
2300 hrs 1st July, 1973, after
setting plugs: Plug-1 8100 to
7752 feet, Plug-2 2900 to 2600
feet and Plug-3 630 to 400
feet. Recovered B.O.P's and
well head.

Geology

Nil.

Shows

Nil.

WAS.
9/7/73

Director

370011

P8/2

PONDU I

10.45 am 1/6/73

Depth 988'

20" casing set to 718'

drilling ahead 17 1/2" hole.

Q

Director

DONDU I

370012

pg 2

1.00 pm. 5/6/73

Depth 6623' previous 5368'
waiting on weather since 10 am 5/6/73 and
had to release marine riser?

5368'-5430' penetrates 325'/hr. - 85% siltstone
color reddish brown, firm, non calcareous very pyritic
in places, 10% mudstone greenish gray to med. ~~to~~
green, firm, calcareous and fossiliferous. trace to
5% sandstone, unconsolidated coarse to granular,
sub rounded & fractured - no shows.

5430'-5623' penetration 500'/hr. assembles
still in hole and not recoverable but ~~of~~ believed
probably sandstone.

gas 5368'-5430' hot wire 3-5, C1, 200.
9

Sunder

31/5/73

Daily Report Sunder 1Spudded 4.30 pm 26th May

Present depth 720'

Currently cementing 20" casing

Note

Top Eastern V. line 5222'

Likely pay zone \approx 7000'

Amesbury

Daily Report 7/6/73.

370014

Bondin - 1.

Depth - 6839'

Progress - ?

Lithology 5623 - 5720 Shale 1008.

Silty pyrite

5720 - 5880 coals blank

+ shale gray/grey

5880' - 6240' Sandstone & coal

shale - Silts

6240' - 6710' Sandstone &

with 90% coal

6710' - 6960' Sancy - med

- coarse unconsolidated

6950' gas bear. from to C4

with 14 Suncor

150' - 100' ft / ^{low} average.

Underweight. 10.2 lbs.

gf

Seen Dom

Director

370015

Daily Report 8 June 73 PB/2

Dondu - 1

Depth - 7439'

Progress - 60'

Drilling ahead looking for a coming point - probably in L. Suvrasan.

Sand silt shale & coal (5)
Some sand medium to very coarse
fine to " "

Gas took at 6840'
6890'
6930'
7150'
7270' - 90'
7380'

Mostly C₁ from top to C₄
highest C₁ @ 3500'
C₂ up to 1100'
C₃ & C₄ up to 800' } all in coal at 6690'

No gas in any of sandy sections so far.

St

D

TEL

P.M.J.

370016

Daily Report 13th June 73.

Sondra -1

Depth 8409'

Progress 419'

currently drilling ahead.

Lithology

7960 - 7990 10' - 20' Sandstone
effervescent & cut.
50' - 80' Slab
10' - 40' coal

7990 - 8040 0 - 40' Sandstone &
some loose angular grains
stony effervescent.
10 - 40' silt buff/white/tan
eff. carbonaceous matter.
~~20' - 40' silt~~
20' - 70' Slab
10 - 40' coal

8040 - 8250 10' - 70' Sandstone
white, firm, consolidated
rather - no effervescent & cut.
10 - 50' silt
10 - 50' Slab
0 - 40' coal

8250 - 8370 - Drilling break 8250 -
8250 - 8255 - apparently

3.

370018

C1	80	-	3000
C2	14	-	850
C3	150	-	850
C4	100	-	500
C5	0	-	600

8.250 - 8370

cutting 10 - 35^h
 Hot Wire 10 - 35^h

C1	400	-	2500
C2	100	-	600
C3	100	-	600
C4	100	-	600
C5	100	-	450

[Handwritten signature]

Inspector

Daily Report

Sondra - 1

18/6/73

Depth - 9097
Pressure 8907

Progress 190'
currently moving in hole preparing to
drill ahead.

Lithology

8890 - 9080 - 10-708 Sandstone
Very fine grained with a
few loose coarse grains
20-709 Siltstone
10-509 Shale
0-209 coal

Gas	Butting	5 - 22 units
	Hot Wire	8 - 175
	G1	400 - 9500
	G2	100 - 1500
	G3	100 - 700
	G4	0 - 200
	G5	0 - 200

Gas Peaks (in sandstone)

8895'	95 units	
8915'	135 units	
8935'	80 units	
8955-75'	175 "	(correlation with a sandstone in Poolbar) at 9700'

J. D.

Daily Report 19th June

Sondou - 1.

D 512 9316'
drilling ahead.

Lithology

Essentially the same as previous, fine
light sands, silt & shale with
minor coal

Gas. C₁ to C₄ in minor amounts.
not NO C₅'

looking for a good sand to take core.

General

The hole is regarded as having
intersected a number of thin tight wet
sands with minor gas shows of no
economic importance. Hoping for a lean
sand before TO (19,000') as the above
sequence should act as a good seal. If
they encounter a wet sand will probably
want to abandon.

J

Note Seismic vessel available probably
mid July or early August. Hermitite
would appreciate early permission to
carry out seismic surveys.

J - J

Director

370021

P8/2

Daily Report

Sonde - 1

20/6/73

Depth 9521

Progress 205'

currently drifting ahead looking for a
coarse sand to core - for shows.

Lithology similar to previous. Basically
fine tight sands, silt & shale with
minor coals. - Sand reported as
slightly calcareous similar to Pduan 3
at about 9000' - no positive correlation.

Gas Readings relatively low & none
nothing higher than C₃.
One gas reading opposite a coal
up to 1700 units C₁.

g

Q

Daily Report

Sondur - 1 -

21st June 73

D bit 9544'

Progress 23'

- blowby fishing -

Dulling break at 9540' to fine sandstone

with some medium pebbly sand - slight

normal fluorescence, no cut, gas readings
increased very slightly.

Bitumen & reconditioned mud ready to
pull out & core - stuck at 3805'

Backed off string at 2740' & presently

forming the fish.

[Signature]

[Initials]

Friday 22nd Jan Douglas!

Still stuck in hole at 3805.

Top of pipe @ 2736.

Traces of gas loose & further
now trying to washore pipe

Q.

Q

Daily Report 25th June

Sondur - 1

No progress.

Recovered jack & went into hole
almost to bottom - weather closed
in - released mud & off location.
Currently waiting on weather &
expect to resume late today.

J.

J

Sincere

370025

P8/2

Daily Report.

Sondeu - 1.

28th Jan 73

Sept 9603.

Recovered fish & drilled to obtain
new FIT - & feel now stuck
in hole -

Note FIT shows abnormal pressure zone
Hydrostatic pressure 5500
Formation pressure 5175.

Run gamma ray, formation density etc logs.

Program recovers FIT. run
additional logs. Hematite would
like to run additional FITS &
perhaps drill or for 200' or so.
ESSO not keen on account of
abnormal pressures - poor
condition of hole. It seems
likely they will abandon over weekend
& shift to Yarongi - 1. Decision to
be made after final log recovery.

of
P

Daily Report

Donda - 1

29th June

Depth 9603

Progress Nil

Recovery FIT tool - contains

4500 cc water & 6000 ppm CI

could be drilling fluid or formation

currently recommending hole & well
 finish logging
 probably plug & abandon are needed.

Q

Q

ISS

370027

P8/2

W Burre

Nacmatite

1117 2 July

Dandhu No 1 3603'

abandoned at 2300 150 July

plugs set at 8100 - 7752

also 2500 - 2600

bottom of casing

service plug 630' - 400'

ESSO AUSTRALIA LTD.
DRILLING PROGRAM

GENERAL:

Well Name: DONDU-1
 Water Depth: 275'±
 Rig: Glomar Conception
 Location: Seismic Line B72 A-124 Shot point 1690
 Latitude: 39° 59' 12.209" S
 Longitude: 146° 13' 0.890" E
 AMG Zone: 55 Co-ordinates
 X = 433,142 E
 Y = 5,573,407 N

This location is 8.3 miles southwest of Bass-2 and 19.2 miles northeast of Poonboon-1.

Programmed TD 8,800' (alternate T.D. of 10,000')

FORMATION EVALUATION:

(a) Electric Logging

DEPTH	LOGS
8,800' or 10,000' T.D.	ISF/SLK, GR/FDC/CNL, HDT. Velocity survey, CST's & FIT's as necessary

(b) Mud Logging:

Mud logging will be continuous from the 20" casing shoe to T.D. Obtain 5 sets of washed and dried samples and one sack of unwashed cuttings every 10 feet. If drilling conditions warrant, samples need to be taken only every 30 feet. Also obtain one tin can of composite cuttings every 100 feet.

(c) Coring Program:

Core all significant hydrocarbon shows. In the absence of shows, anticipate up to 5 cores in the Eastern View for facies analysis.

DRILLING PROGRAM:

- 2 -

DONDU-1

CASING PROGRAM:

<u>Type</u>	<u>Size</u>	<u>Hole Size</u>	<u>Setting Depth</u>	<u>Running String</u>	<u>String Components</u>
File Joint	30"/20"	36"	26±' penetration	D.P.	<p>Pile joint assembly consisting of: 30" CIW Conductor Housing. 30'-30" 391.52#/ft. 1.275" WT LP.</p> <p>16-3/4" x 30" CIW Housing, 40'-20" 129.33#/ft 0.625" WT J-55 casing with CIW CC connector pin.</p>
Conductor	20"	26"	400+' penetration	D.P.	<p>Pile Joint.</p> <p>40±' 20" 129.33#/ft 0.625" WT J-55 casing with CIW CC connector box and CIW JV threaded connector pin.</p> <p>1 centralizer at top of 2nd joint with stop ring positioning as above.</p> <p>280±' 20" 129.33#/ft 0.625" WT J-55 casing with CIW JV threaded connector pin and box. Make-up torque is 20,000 ft-lbs.</p> <p>1 centralizer free to move on 4th, 6th and 8th joints.</p> <p>40±' 20" 129.33#/ft 0.625" WT J-55 casing with welded float shoe and CIW JV threaded connector box.</p>
Surface	13-3/8"	17½"	2500±' penetration (2800±' KB)	D.P.	<p>16-3/4" x 13-3/8" CIW Hanger and Seal Assembly.</p> <p>2460' 13-3/8" 54.5#/ft J-55 Buttress casing. Make-up torque is 9000 ft-lbs.</p> <p>13-3/8" Float Collar.</p> <p>1 joint 13-3/8" 54.5#/ft J-55 Buttress casing. 13-3/8" Float Shoe.</p>

DRILLING PROGRAM:

- 3 -

DONDU-1

CEMENTING PROGRAM:CasingCement System30"/20" Pile Joint
Annulus

60 sx of Aust. 'N' with 2% CaCl₂ mixed with fresh water.
(113# CaCl₂ and 7.5 barrels fresh water)

Yield: 1.18 cu.ft./sk
Water: 5.2 gal./sk
Slurry Weight: 15.6 ppg

This volume gives 10% excess.

Pile Joint and
20" Conductor

1100 sx of Aust. 'N' neat mixed with fresh water
(136 barrels).

Yield: 1.18 cu.ft./sk
Water: 5.20 gal./sk
Slurry Weight: 15.6 ppg
Slurry Volume: 231 bbls

Tail in with 350 sx of Aust. 'N' with 2% CaCl₂
mixed with fresh water.
(658# CaCl₂ and 44 barrels fresh water)

Yield: 1.18 cu.ft./sk
Water: 5.2 gal./sk
Slurry Weight: 15.6 ppg
Slurry Volume: 74 bbls

This volume allows for twice gauge volume.

Surface

Bring cement top to 1300' with 900 sx Aust. 'N'
cement with 850# CaCl₂ mixed in 111 bbls fresh
water.

This assumes gauge hole.

Yield: 1.18 cu.ft./sk
Water: 5.20 gal./sk
1% CaCl₂
Slurry Weight: 15.6 ppg
Slurry Volume: 189 bbls

Approximate displacement 385 barrels.

DRILLING PROGRAM:

- 4 -

DONDU-1

ABANDONMENT PROCEDURE:

The following abandonment plugs should be set. Cement volumes given are calculated assuming a gauge 12 $\frac{1}{4}$ " hole and should be used only as a guide.

<u>Plug No.</u>	<u>Interval MD-KB</u>	<u>Cement</u>	<u>Remarks</u>
1.	Critical zones as required.		
2.	2900'-2600'	220 sx Aust. 'N'	Bottom of plug 100' \pm below surface casing shoe.
3.	630'- 380'	185 sx Aust. 'N' with 2% CaCl ₂	Feel for top of plug after setting. Top of plug should be 65' \pm below mud line.

Recover wellhead by cutting casing 50' \pm below mud line.

OTHER:

- (a) Pressure test the 13-3/8" casing to 1500 psi prior to drilling out. After drilling out, pressure test the formation below the casing as follows:

<u>Casing</u>	<u>Pressure</u>	<u>Mud in Hole</u>	<u>Mud Wt. Equiv.</u>
20"	0 psi	Seawater (8.54 ppg)	Circ. only
13-3/8"	Leak off (725 psi max)	8.54 ppg	13.5 ppg max.

- (b) Riser Tension:

Maintain 105 to 110 kips. This is on the high side for normal operating conditions and is satisfactory for non-operating conditions. A corresponding ball joint pressure of 400 \pm psi should be maintained for mud weights up to 12.0 ppg.

- (c) Surge Dampener Precharge Pressure:

Hydril - Opening	100 psi
Closing	480 psi
Shaffer - Opening	100 psi
Closing	650 psi

DRILLING PROGRAM:

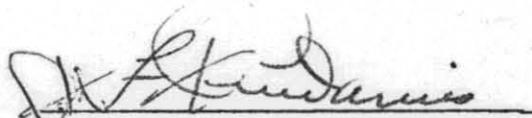
DONDU-1

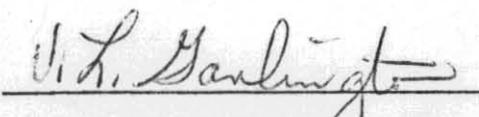
Well data, particularly relating to production horizons, will be held strictly confidential.

* * * *

S.H.

Area Technical Manager


Area Operations Manager


Area Manager

DRILLING PROGRAM - DONDU-1MATERIAL LIST

<u>ITEM</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
<u>Wellhead Equipment:</u>		
1.	1	30" Drilling Template - Alloycraft Part No. 562-48-061
2.	1	Guide Base, 6 foot radius - CIW Part No. 672408-2
3.	1	Fabricated Pile Joint consisting of: 30" Conductor Housing - CIW Part No. 680560 16-3/4" - 5000# Casing Head Housing - CIW Part No. 680891-3 30' - 30" 391.52#/ft 1.275" WT LP. 40' - 20" 129.33#/ft 0.625" WP J-55 casing with CIW CC connector pin.
4.	1	16-3/4" x 10-3/4" Flow Thru Hanger and Seal Assembly - CIW Part No.
<u>Conductor:</u>		
1.	40'	20" 129.33#/ft 0.625" WT J-55 casing with CIW CC connector box and CIW threaded connector pin.
2.	280'	20" 129.33#/ft 0.625" WT J-55 casing with CIW threaded connector pin and box.
3.	40'	20" 129.33#/ft 0.625" WT J-55 casing with Baker Float Shoe, Part No. 100-01, and CIW threaded connector box.
4.	6	20" Centralizer, latch-on, Baker Model M, Part No. 244-53.
5.	3	20" Clamp, Casing, Stop Ring, Baker Part No. 248-02.

MATERIAL LIST:

- 2 -

DONDU-1

<u>ITEM</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
<u>Surface Casing:</u>		
1.	2660±'	13-3/8" OD 54.5#/ft J-55 Buttress casing.
2.	1 jt.	13-3/8" casing 54.5#/ft with Float Collar Baker Part #101-01 threadlocked on top and Float Shoe Baker Part #100-01 threadlocked on bottom.
3.	10	13-3/8" Centralizer, Latch-on, Baker Model M Part No. 244-53.
4.	2	13-3/8" Clamp, Casing, Stop Ring, Baker Part No. 248-02.
5.	1	13-3/8" Subsea Cementing Plug - bottom
6.	1	13-3/8" Subsea Cementing Plug - top

370035

ESSO AUSTRALIA LTD.
DRILLING PROGRAM.

FIELD - DONDU WELL NUMBER - 1 DRILLING SLOT - PROJECTED TD - 8800' PREPARED BY - G.L. ARGALL DATE - MAY 15, 1973

M.D	DRILLING TIME ESTIMATE, DAYS					BIT PROGRAM.				HYDRAULIC PROGRAM.				REMARKS.	
	5	10	15	20	25	SIZE & TYPE.	JETS ($\frac{1}{32}$ IN)	WQB.	RPM.	LINER SIZE & OPERATION	PRESSURE	S.P.M.	GPM		ANNULAR VELOCITY (FPM)
						36" HO 50'± 26" OSC-3A	Reg. bit	0/20	200/ 250	6-3/4" 6-3/4"	600	65	1035	38	Drill 36" hole to 50'±, then 26" hole to 450'± penet.
1,000						13-3/4" OSC-3AJ w/ 17 1/2" UR	3 x 16	40/50	200	6-3/4" 6-3/4"	2600	65	1035	90	Drill 17 1/2" hole to 2850'± KB.
2,000															
3,000						12 1/4" X3A	1 x 16 2 x 18	65	200	6-3/4" 6-3/4"	3000	60	950	185	Hydraulics program calculated assuming 18 x 7-3/4" DC's and 12 joints of HWDP. Run 12 joints of HWDP above bumper subs. Recommend drilling out casing shoe with staggered bumper subs, one 6 collars off the bit and the other above all collars.
4,000															
5,000							2 x 16 1 x 18					54 54	850	170	
6,000							3 x 16		150/ 200			46 46	730	145	
7,000						12 1/4" XDG	1 x 15 2 x 16					43 43	690	135	
8,000						12 1/4" J-33	2 x 15 1 x 16	55	50/60			42 42	670	130	Recommend using 15 x 7-3/4" DC's to maintain lighter bit weights on Journal bearing bit
9,000							1 x 14 2 x 15					38 38	600	115	
10,000															

5 cm

370036

DRILLING PROGRAM

FIELD: DONDU

WELL NUMBER: 1

PREPARED BY: G.L. ARGALL

DATE: MAY 15, 1973

GEOLOGICAL DATA			PREDICTED OVER- BALANCE PSI	MEASURED DEPTH	DRILLING MUD						TREATMENT & REMARKS
FORMATION	ESTIMATED BOTTOM HOLE PRESSURE	REMARKS			WT.	VISC	WATER LOSS	PV/ YP	SOLIDS	OIL	
Water Depth 275'				1,000	8.5	Natural Seawater Mud					Spot 60-80 sec gel water before running 20" casing. Drill with natural seawater mud, controlling weight with solids control equipment and by additions of seawater.
Mid Miocene (2822')				2,000							
				3,000	9.0	45/50	-	10/1-2	5	-	Add gel prehydrated in fresh water before running casing.
Oligocene (4182')				4,000							Test 13-3/8" casing to 1500 psi. Drill cut and test formation to 13.5 ppg equivalent with seawater. Drill ahead with seawater. Have 10.2 ppg mud throughout the system by 5000'.
Eocene (4912')	2450 psi	Lower <i>N. asperus</i> 5222'	310	5,000	10.2	40/45	6/10	13-18/3-7	10-12	-	
Eastern View Group		<i>P. asperopolous</i> 5857'		6,000							
		Upper <i>M. diversus</i> 6402'		7,000							
	3270 psi	Lower <i>M. diversus</i> 7092'	500	8,000			HT-HP 15-20				
		<i>L. balmei</i> 7962'		9,000							
		T.D. 8800'		10,000	10.8			18-22/6-8	12-14		Begin to monitor abnormal pressure indicators at 9000±'.
		Alternate T.D. 10,000'									

5 cm

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

STATE OF TASMANIA
PETROLEUM (SUBMERGED LANDS)
ACT 1967

NOTICE OF INTENTION TO DRILL

Bof M	CG	CC & M	D.S.M.F.
RECEIVED			Registrar
15 MAY 1973			E & IL
ANSWERED			
DEPT OF MINES			
REF. No. 3146/77			

The Designated Authority, Tasmania.

Hematite Petroleum Proprietary Limited, being the holder of Petroleum Exploration Permit No. T/4P hereby notifies its intention to drill a well and requests your permission to carry out the proposed operation.

- I. Well: Dondu-1
- Classification Wildcat
- II. Operator Esso Australia Ltd.,
Esso House,
127, Kent Street,
Sydney, N.S.W.
- Person-in-charge S. L. Kennedy,
Esso Australia Ltd.,
42, Raymond Street,
Sale, Victoria.
- Geological Supervision W. J. Whaley,
Esso Australia Ltd.,
Esso House,
127, Kent Street,
Sydney, N.S.W.
- III. Drilling Contractor Global Marine,
P. O. Box 532,
Sale, Victoria.
- Drilling Rig Glomar Conception
- Date of Commencement 25th May, 1973.
Subject to rig availability
- IV. Details of Operation:
- Location Latitude : 39° 59' 12.209" S
Longitude : 146° 13' 0.890" E
- Water Depth 275 feet
- Drilling Datum 32 feet above sea level

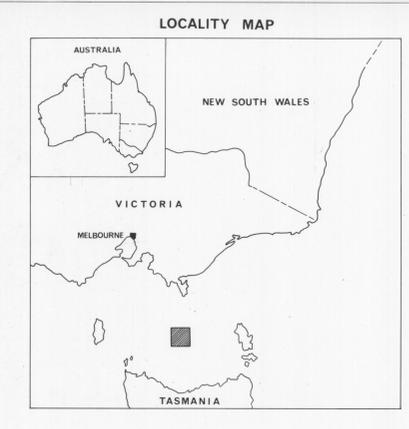
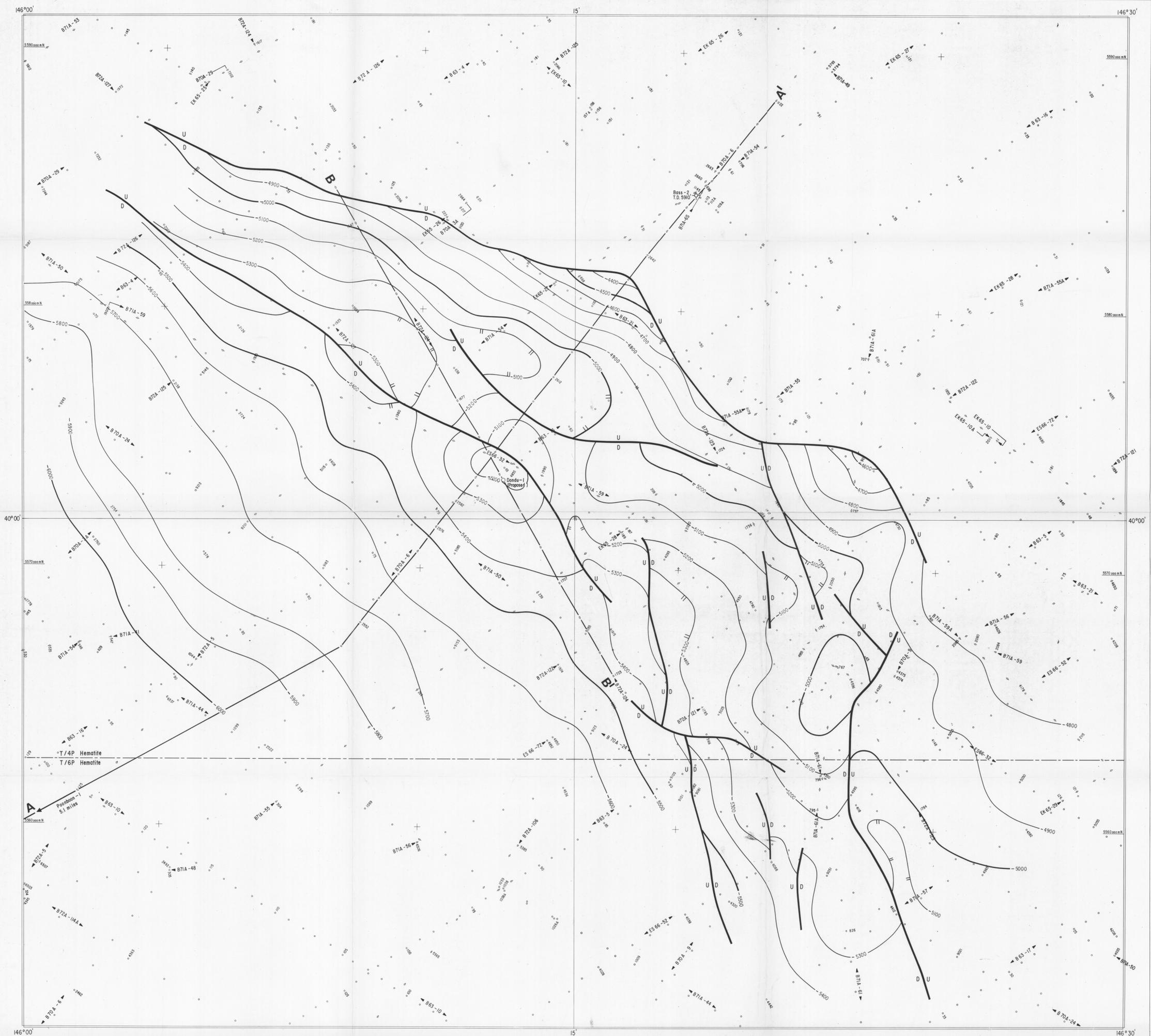
2.

<u>Casing Programme</u>	20 inch at 400 feet penetration, 13-3/8 inch at 2800 feet K.B.
<u>Logging Programme</u>	
<u>Run 1</u>	At T.D. run ISF/S, GR/FDC/CNL, HDT, Velocity Survey, CST's and FIT's as necessary.
<u>Coring Programme</u>	Core all significant hydrocarbon shows. Up to 5 stratigraphic cores may be cut in the Eastern View Group for facies analysis.
<u>Sample Collection</u>	Continuous from 20 inch casing shoe. Catch 5 sets of washed and dried samples and 1 set of unwashed cuttings every 10 to 30 feet, depending on drill rate, and 1 can of composite cuttings every 100 feet.
<u>Proposed Total Depth</u>	8,800 feet (alternate T.D. of 10,000 feet if additional evaluation of potential reservoir section is warranted).

Notification dated: 14th May, 1973.

R. P. Harrison

for
R. P. Harrison,
Manager Operations,
Hematite Petroleum Pty. Ltd.



ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.

THE BASS BASIN
TASMANIA
DONDU AREA
STRUCTURE MAP
TOP EASTERN VIEW GROUP

CONTOUR INTERVAL - 100 FEET DATUM - SEA LEVEL

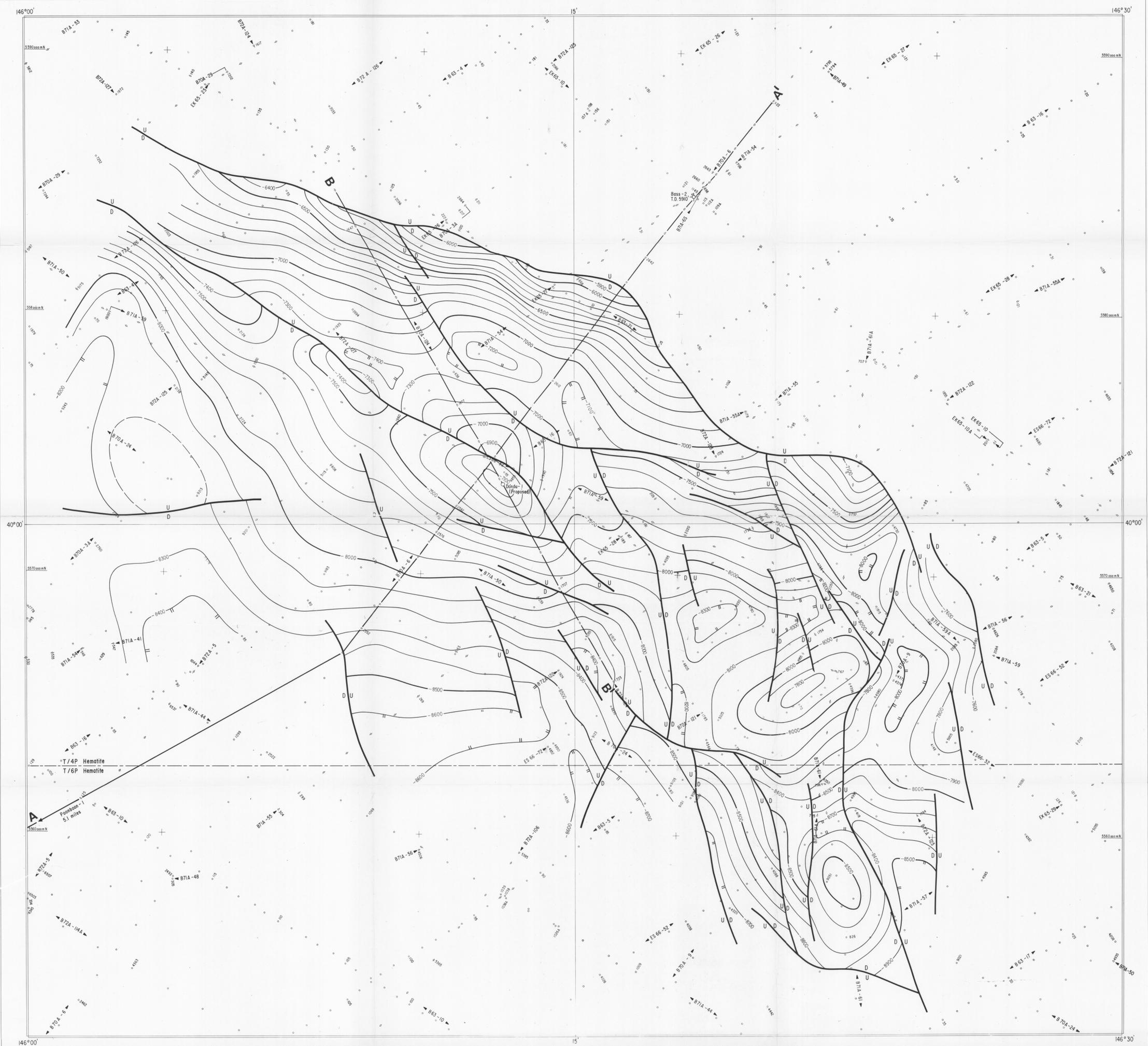
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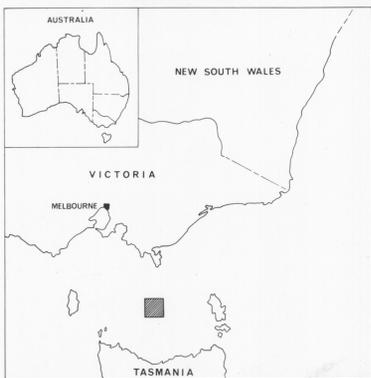
INTERPRETATIVE

AUTHOR: J. BORDEON DRAFTED BY: U. FODOR
TO ACCOMPANY: AUTH. TO DRILL DONDU-1 DATE: FEB. 1973

370039
PLATE I DWG. 1528/CP/4



LOCALITY MAP



ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.

THE BASS BASIN
TASMANIA
DONDU AREA
STRUCTURE MAP
TOP LOWER M. diversus

INTERPRETATIVE

Scale 1:50,000



AUTHOR: J. BORDOLON
TO ACCOMPANY: AUTH. TO DRILL DONDU-1

DRAFTED BY: U. EGGER
DATE: FEB. 1973

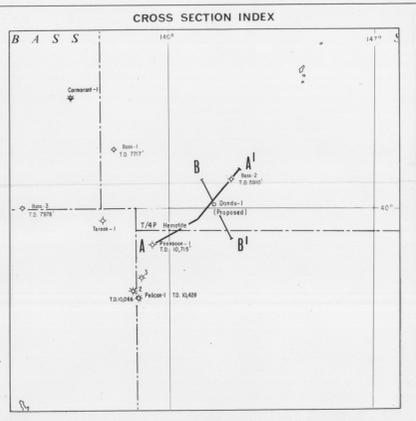
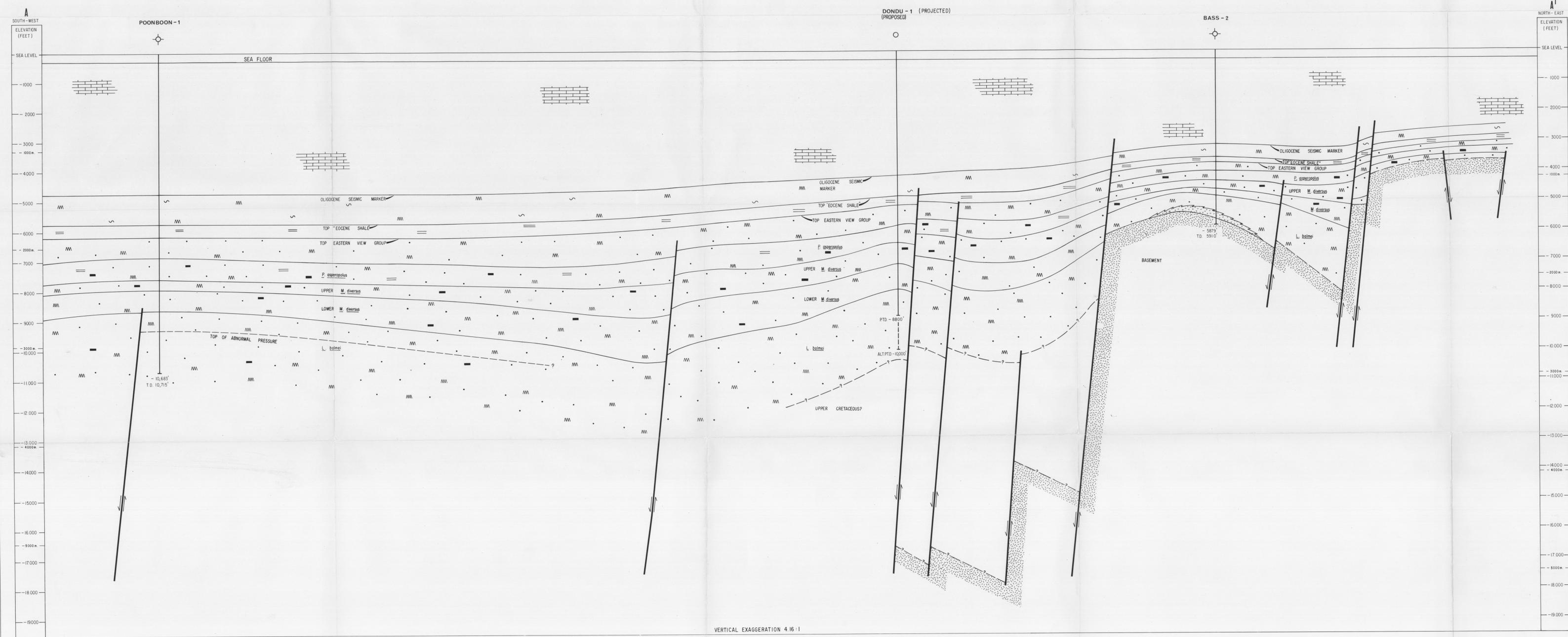


PLATE II

370040

CR-0337A
DWG. 1528/0P/3

5 cm



- LEGEND**
- MARL, LIMESTONE
 - SANDSTONE
 - SILTSTONE
 - SHALE
 - VOLCANICS
 - COAL

ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.

BASS BASIN
TASMANIA

DONDU PROSPECT

GEOLOGICAL CROSS SECTION A-A'

INTERPRETATIVE

Vertical Scale 1 Inch = 1000 Feet
Horizontal Scale 1:50,000

370642

Vertical Scale 1:50,000
Horizontal Scale 1:50,000

1 0 1 2
MILES

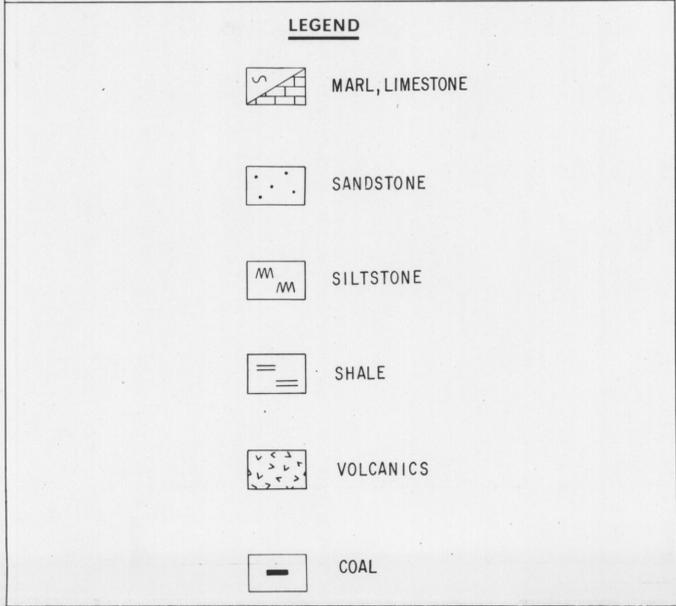
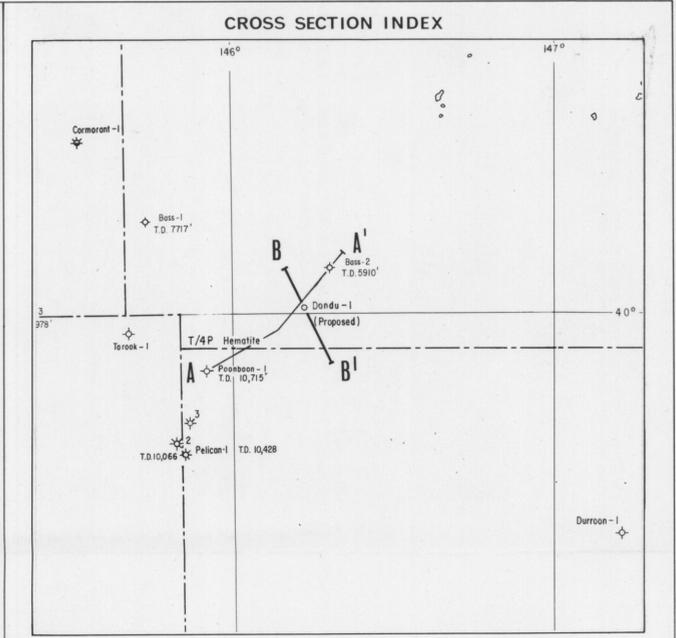
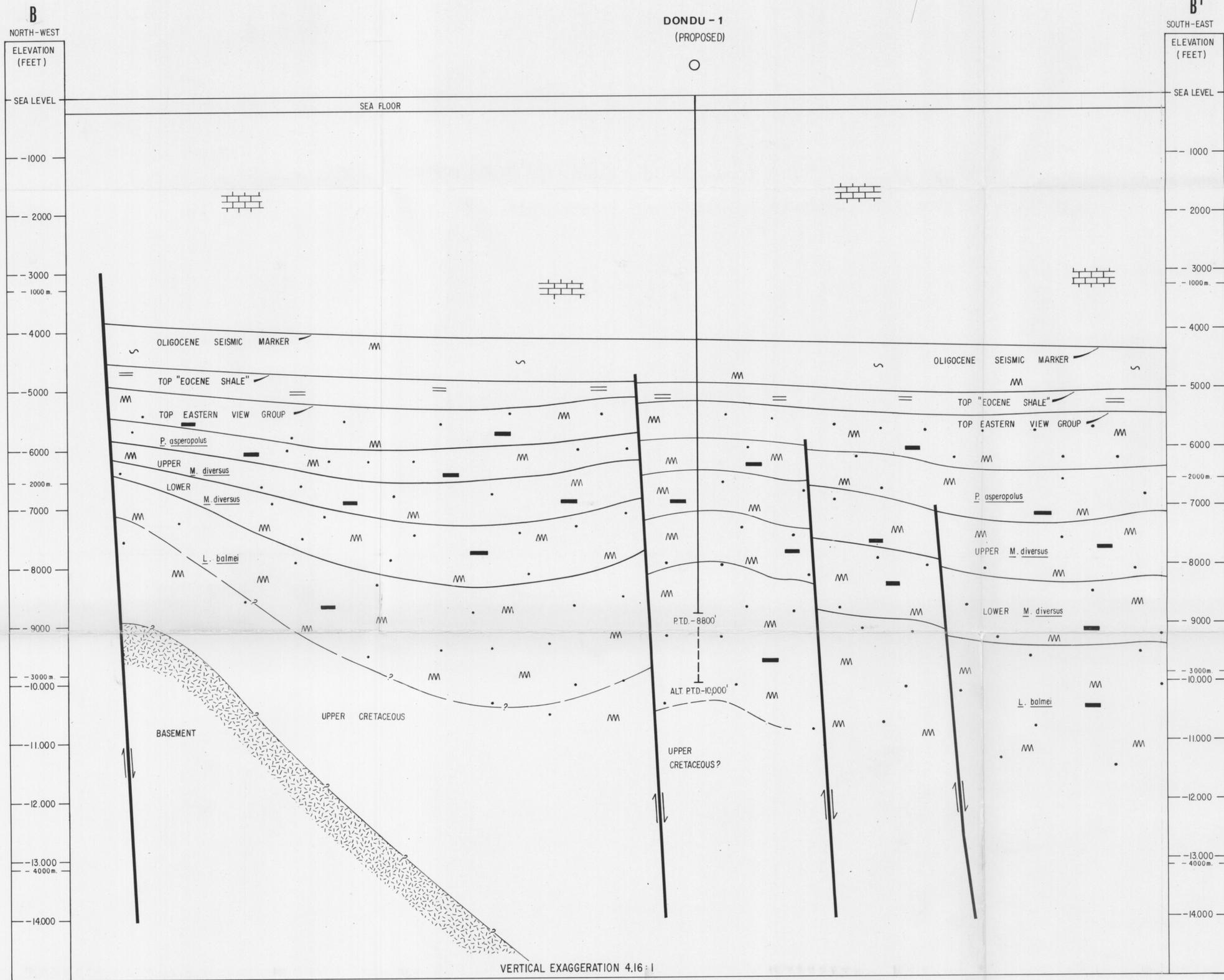
AUTHOR: J.H. BORDOLIN & A.J. RIGG DRAFTED BY: U. EGGER
DATE: FEB. 1973

TO ACCOMPANY: AUTHORIZATION TO DRILL DONDU-1

PLATE IV

CR-0337A
DWG 1528/DP/6

VERTICAL EXAGGERATION 4 16:1



ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.

BASS BASIN
TASMANIA

DONDU PROSPECT

GEOLOGICAL CROSS SECTION B-B'

INTERPRETATIVE

5 cm

Vertical Scale 1 Inch = 1000 Feet
Horizontal Scale 1:50,000

1 0 1 2
MILES

AUTHOR: J.H. BORDELON & A.J. RIGG
DRAFTED BY: U. EGGER
DATE: FEB. 1973

TO ACCOMPANY: AUTH. TO DRILL DONDU-1

PLATE V

370043

CR 0337A
DWG. 1528 / OP / 7