

RAW DATA REPORT
Yurongi-1.

Esso Exploration and Production Australia Incorporated

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

STATE OF TASMANIA
PETROLEUM (SUBMERGED LANDS)
ACT 1967

NOTICE OF INTENTION TO DRILL

| | | | |
|----------------|------|-------|-------------|
| D of M | A.C. | C & M | D.S.M.E. |
| | | | Registrar |
| RECEIVED | | | 15 JUN 1973 |
| ANSWERED | | | E & IL |
| D.P. [unclear] | | | |
| REF. No. | | | |

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: Yurongi-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.,
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 17th June, 1973.
Subject to rig availability.
- IV. Details of Operation:
- Location Latitude : 39° 55' 31.527" S
Longitude: 146° 15' 57.044" E
- Water Depth 275 feet
- Drilling Datum 32 feet above sea level
- Casing Programme 20 inch at 400 feet penetration
13-3/8 inch at 2800 feet
K.B.
- Logging Programme at T.D. run ISF/SF, GR/FDC/CNL,
HDT, Velocity Survey, CST's and
Run 1 FIT's as necessary.

Coring Programme

Core all significant hydro-carbon shows. Up to 4 stratigraphic cores may be cut in the Eastern View Group for facies analysis.

Sample Collection

Continuous from 20 inch casing shoe. Catch 5 sets of washed and dried samples and one set of unwashed cuttings every 10 to 30 feet, depending on drill rate, and 1 can of composite cuttings every 10 feet.

Proposed Total
Depth

8,000 feet (alternate T.D. of 9,000 feet if additional evaluation of potential reservoir section is necessary.

Notification dated: 14th May, 1973.

B. P. Harrison

for

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

ESSO AUSTRALIA LTD.

DRILLING PROGRAM

377004

GENERAL:

Well Name: YURONGI-1
Water Depth: 275'±
Rig: Glomar Conception
Location: Seismic Line: B70 A-6 Shot point 2630
Latitude: 39° 55' 31.527" S
Longitude: 146° 15' 57.044" E
AMG Zone: 55 Co-ordinates
X = 437,264 E
Y = 5,580,247 N

This location is 3.3 miles southwest of Bass-2,
and 5.0 miles northeast of Dondu-1 and 24.2
miles northeast of Poonboon-1.

Programmed T.D. 8,000' (alternate T.D. of 9,000')

FORMATION EVALUATION:

(a) Electric Logging

| DEPTH | LOGS |
|--------------------------|--|
| 8,000' or 9,000' 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 4 cores in the Eastern View for facies analysis.

CASING PROGRAM:

377005

| <u>Type</u> | <u>Size</u> | <u>Hole Size</u> | <u>Setting Depth</u> | <u>Running String</u> | <u>String Components</u> |
|-------------|-------------|------------------|--|-----------------------|--|
| Pile 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> |
| | | | Fill pile joint 30"/20" annulus with cement prior to running. | | |
| 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>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>40±' 20" 129.33#/ft 0.625" WT J-55 casing with welded float shoe and CIW JV threaded connector box.</p> |
| | | | Centralizers: 1 centralizer at bottom and top of 1st joint. Position stop rings for 5' of centralizer movement between collar and stop ring. | | |
| | | | 1 centralizer at top of 2nd joint with stop ring positioning as above. | | |
| | | | 1 centralizer free to move on 4th, 6th and 8th joints. | | |
| 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> |
| | | | Centralizers: 1 centralizer at bottom and top of 1st joint. Position stop rings for 5' of centralizer movement. | | |
| | | | 1 centralizer free to move on 3rd, 5th 7th, 9th, 11th, 13th, 15th and 17th joints. | | |

CEMENTING PROGRAM:

377006

CasingCement System

30"/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.

377007

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

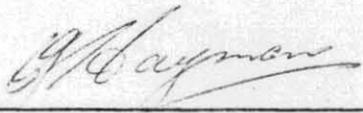
Shaffer - Opening 100 psi
Closing 650 psi

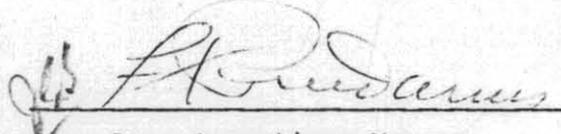
Recommendations for bit selection, drilling parameters, and hydraulics while coring Yurongi-1:

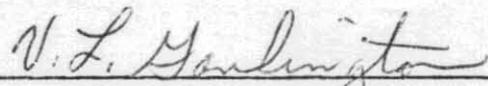
| <u>Interval</u> <u>From-To</u> | <u>Bit Size and Type</u> | <u>WOB</u> | <u>RPM</u> | <u>SPM</u> | <u>Pressure</u> |
|-----------------------------------|--------------------------|------------|------------|------------|-----------------|
| 3000±'-6000±' | 8-15/32 C-22 FD | 16-18 | 40-50 | 25 | 800± psi |
| 6000±'- T.D. | 8-15/32 C-20 | 18-20 | 50-60 | 25 | 800± psi |

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

* * *

SAL 
 Area Technical Manager


 Area Operations Manager


 Area Manager

DRILLING PROGRAM - YURONGI-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. |

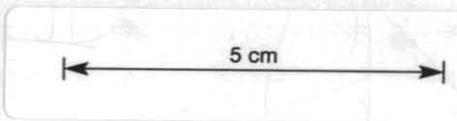
| <u>ITEM</u> | <u>QTY.</u> | <u>DESCRIPTION</u> |
|------------------------|-------------|--|
| <u>Surface Casing:</u> | | |
| 1. | 2460' | 13-3/8" OD 54.5#/ft J-55 Buttress casing. |
| 2. | 1 jt. | 13-3/8" casing 54.5#/ft with Float Collar Baker Part #101-01 threadlocked on top and Float Shoe Baker 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 |

377011

ESSO AUSTRALIA LTD.
DRILLING PROGRAM.

FIELD:- YURONGI WELL NUMBER:- 1 DRILLING SLOT:- PROJECTED TD:- 8000' PREPARED BY:- G.L. ARGALL DATE:- MAY 24, 1973

| M.D. | DRILLING TIME ESTIMATE, DAYS | | | | | BIT PROGRAM. | | | | HYDRAULIC PROGRAM. | | | | REMARKS. | |
|------|---|----|----|----|----|-------------------------------------|------------------|-------|-------------|-------------------------|----------|----------|------|----------|---|
| | 5 | 10 | 15 | 20 | 25 | SIZE & TYPE. | JETS (1/32 IN) | WOB. | RPM | LINER SIZE & OPERATION. | PRESSURE | SPM | GPM | | ANNULAR VELOCITY (FPM) |
| | Drill 36" and 26" hole. | | | | | 36" HO 50'± 26" OSC-3A | Reg. BIT | 0/20 | 200/ 250 | 6-3/4" 6-3/4" | 600 | 65 65 | 1035 | 38 | Drill 36" hole to 50'±, then 26" hole to 450'± pent. |
| 1000 | Run 20" casing and 20"/30" pipe joint. Run 16-3/4" stack, 18-5/8" riser. | | | | | 13-3/4" OSC-3AJ w/ 17 1/2" UR | 3 x 16 | 40/50 | 200 | 6-3/4" 6-3/4" | 2600 | 65 65 | 1035 | 90 | Drill 17 1/2" hole to 2850' KE. |
| 2000 | Drill 17 1/2" hole. | | | | | | | | | | | | | | |
| 3000 | Set 13-3/8" casing. | | | | | 12 1/2" X3A | 3 x 16 | 65 | 200 | 6-3/4" 6-3/4" | 3000 | 51 51 | 800 | 155 | 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. |
| 4000 | Drill 12 1/2" hole. | | | | | | | | | | | 45 45 | 720 | 140 | |
| 5000 | Core | | | | | | 1 x 15 2 x 16 | | | | | 43 43 | 690 | 135 | |
| 6000 | Core | | | | | | 2 x 15 1 x 16 | | 150/ 200 | | | 41 41 | 660 | 130 | |
| 7000 | Drill 12 1/2" hole. | | | | | 12 1/2" XDG | 3 x 15 | | | | | 40 40 | 630 | 120 | |
| 8000 | Log, plug & abandon. | | | | | 12 1/2" J-33 | 1 x 14 2 x 15 | 55 | 50/60 | | | 38 38 | 610 | 120 | Recommend using 15 x 7-3/4" DC's to maintain lighter bit weights on Journal bearing bit. |
| 9000 | | | | | | | | | | | | | | | |



Yurougi No 1

377013

annied
setting accounts,

0300

> July

PL

IBJ

377014

4 July

BHP

Haematite

Gravity No 1 800' 20"

0730 3 July
continued to 734'

Blow-out pressures

2

Director

BAP.

377015

5 July

PS/2

James (No) 2960

profiling 13" cones

? (st, numl.

Pd.

9

WEEKLY DRILLING REPORTYURONGI-1

| | |
|----------------|--|
| Operator | Esso Australia Limited. |
| Drilling Unit | Glomar Conception |
| Location | Latitude : 39°55'31.527" S. Longitude: 146°15'57.044"E. |
| Water Depth | 275 feet |
| Drilling Datum | 32 feet |
| Date of Report | 6th July, 1973 |
| Progress | Current 4393' Previous Nil <hr/> Progress 4393' <hr/> |

Operations

Arrived location 0030 hrs, 2nd July, 1973, waited on weather, spudded-in 0730 hrs 3rd July, 1973. Drilled 26 inch hole to 800 feet, ran and cemented 20 inch casing at 734 feet on 3rd July. Drilled ahead 16½ inch hole to 2960 feet. Ran and cemented 13¾ inch casing at 2944 feet on 5th July. Drilled ahead 9-7/8 inch hole to 4393 feet.

Geology

| | |
|------------------|--|
| 737 - 3050 feet | <u>Limestones and Marls.</u> |
| 3050 - 3680 feet | <u>Mudstone</u> , medium grey. |
| 3680 - 3890 feet | <u>Siltstone and Mudstone</u> , siltstone brown, calcareous, with trace of pyrite; mudstone, medium grey. |
| 3890 - 4270 feet | <u>Interbedded Sandstone and Shale:</u> sandstone, tan to buff, very fine grained dolomitic and silty; shale, brown, very silty and calcareous with tan dolomitic siltstone. |
| 4270 - 4393 | <u>Shale</u> , brown with thin tan dolomitic siltstones. |

6/11/73

377017

Director

Daily Report 6th July 73.

Yarongi -

Set 112 still 2960

Set 1378 " casing & preparing
to drive ahead.

[Handwritten signature]

[Handwritten mark]

Sancton

377018

PC/2

Drill Report

Yarongi-1

9 July

| | | |
|---------------|-------|------------------------|
| Present depth | 6660' | |
| Last " | 2960' | (6 th July) |
| propers. | 3500' | |

Lithology Sancton + marls to 3050'
Shaly sandstone section to 4535'

Top of Eastern Veneer probably 4535'

4535' - 6660' - Sancton, silt -
shaly sequence with medium, coarse
to very coarse sandstone + coals (for 4710)

no significant gas shows.

J

Q

377019

Daily Report

YARONGI - 1

19/7/73

Depth 7068'

Drilled to 7045 - semi thin
mining core in white, fine to medium
unconsolidated sandstone.

Lithology

Basically a sandstone, slate
& silt section & coal in upper
portion. Very much less coal than
Donda & last coal encountered at 6970.

No significant shows.

1 gas peak in a slate @ 6850'
giving up to 18,000 units of G, & a
trace of H₂ - thought to be a little
residual gas in a slate band.

J

Q

~~Director~~

YURO NO 1 I

377020

Pg 2

11/7/73

10.10 am

Depth 7478'

Core from 7045' - 7075' 100% sandy
section all sandstone, lt grey, fine grain,
sub rounded to angular, poorly sorted,
slightly calcareous, abundant muscovite
to fine lithic fragments

NO SHOWS

Section below basically sandstones
interbedded to some siltstone - apparent
coal bed 7340' - 7350'

9

Daily Report.

Yeroungi - I.11th July 73.

Depth 7838

Lithology

Similar section to yesterday - sandy,
fine grained, poorly sorted contains
abundant lilies & carbonaceous
material. Core band from 1770 - 80

No shows.

To plan for 8000' & look
back later for improvement.

NOTE This is the end of ESSO's
present program.

2
J

9

WEEKLY DRILLING REPORTYURONGI-1

Operator Esso Australia Limited.
 Drilling Unit Glomar Conception
 Location Latitude : 39° 55' 31.527" S
 Longitude : 146° 15' 57.044" E
 Water Depth 272 feet corrected water depth
 Drilling Datum 32 feet
 Date of Report 13th July, 1973.
 Progress Current 8000'
 Previous 4393'
 Progress 3607 feet

Operations

Drilled 9-7/8 inch hole to 7045 feet.
 Cored 7045 to 7075 feet, recovered
 30 feet. Drilled ahead 9-7/8 inch
 hole to 8000 feet on 12th July.
 Logged. Ran ISFS 2947-7988 feet,
 GRFDCNL 4400-7982 feet, GR to 304
 feet. HDT 7950-4400 feet,
 deviation survey to 2000 feet. Shot
 30 sidewall samples, recovered 28.
 Logging at report date.

Geology

4393 - 4535 feet

Shale, brown, with thin tan dolomitic siltstones.

4535 - 4710 feet

Sandstone, white, medium to very coarse grained quartz, unconsolidated with interbeds of brown siltstone and brown carbonaceous shale.

4710 - 5460 feet

Coal Measures: Sandstone as above interbedded with tan siltstones, brown shales and coal beds.

5460 - 5580 feet

Sandstone, white, poorly sorted, consolidated to unconsolidated.

5580 - 5970 feet

Coal Measures: Sandstones, siltstones, shale and coals interbedded.

Daily Report.

Jurong 1.

13/7/73.

P8/2

Silt 8000'.
currently running logs.

377023

Lithology.

Lower bedded silt & sandstone with
some coal streaks. Sands fine
to medium, poorly sorted.

Gas reading negligible.

Expect to abandon soon from today.

J

A

5970 - 8000 feet

Siltstones and Shales with Sandstones
6190-6360 feet sandstone is pebbly and unconsolidated.

Sandstones predominate from 6600 to 6900 feet and are tan to white, very fine to fine grained silty and clay choked, and from 7020 to 7700 sandstones again predominate and are fine grained, generally poorly sorted, containing a variable lithic grain fraction, thin coals and interbedded siltstones and shales with a coal bed 7340-7350 and 7770-7780.

Siltstones below 7780 feet are grey brown, moderately carbonaceous with thin sands, coals and claystones.

44

HEMATITE PETROLEUM PTY. LTD.WEEKLY DRILLING REPORTYURONGI-1

| | |
|----------------|--|
| Operator | Esso Australia Limited. |
| Drilling Unit | Glomar Conception |
| Location | Latitude : 39° 55' 31.527 South Longitude : 146° 15' 57.044 East |
| Water Depth | 272 feet. |
| Drilling Datum | 32 feet |
| Date of Report | 20th July, 1973. |
| Progress | Current 8000 feet Previous 8000 feet <hr/> Progress Nil |
| Operations | Completed logging. Set cement plugs; Plug No. 1, 3080 to 2280 feet and Plug No. 2, 650 to 400 feet. Recovered well head and abandoned location at 2030 hours 14th July, 1973. |

epo
BAS mlhs

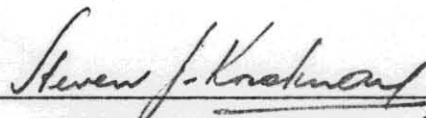
YURONGI-1ABANDONMENT PROCEDURE

13-3/8" surface casing set at 2948' KB

No hydrocarbon zones below surface casing

| <u>Plug No</u> | <u>Interval MD-KB</u> | <u>Cement</u> | <u>Remarks</u> |
|--------------------|---------------------------|--|---|
| 1. | 3050'-2750' | 220 sx Aust. 'N' | Bottom of plug 100±' below surface casing shoe. |
| 2. | 620'-370' | 185 sx Aust. 'N' + 2% CaCl ₂ | Feel for top of plug after setting. Top of plug 65±' below mud line. |

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



Drilling Engineering



Drilling Operations

Directo

Yuwongi -1.

Departen location 2030 hrs 14th July 73.

| | | |
|---------------|----------|------|
| Set plugs (1) | - 3080 - | 2780 |
| (2) | 650 - | 400 |

g

YURONGI-1ABANDONMENT PROCEDURE

13-3/8" surface casing set at 2948' KB

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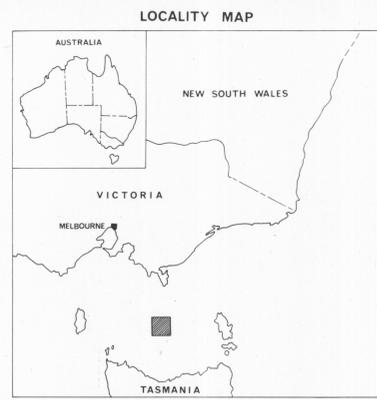
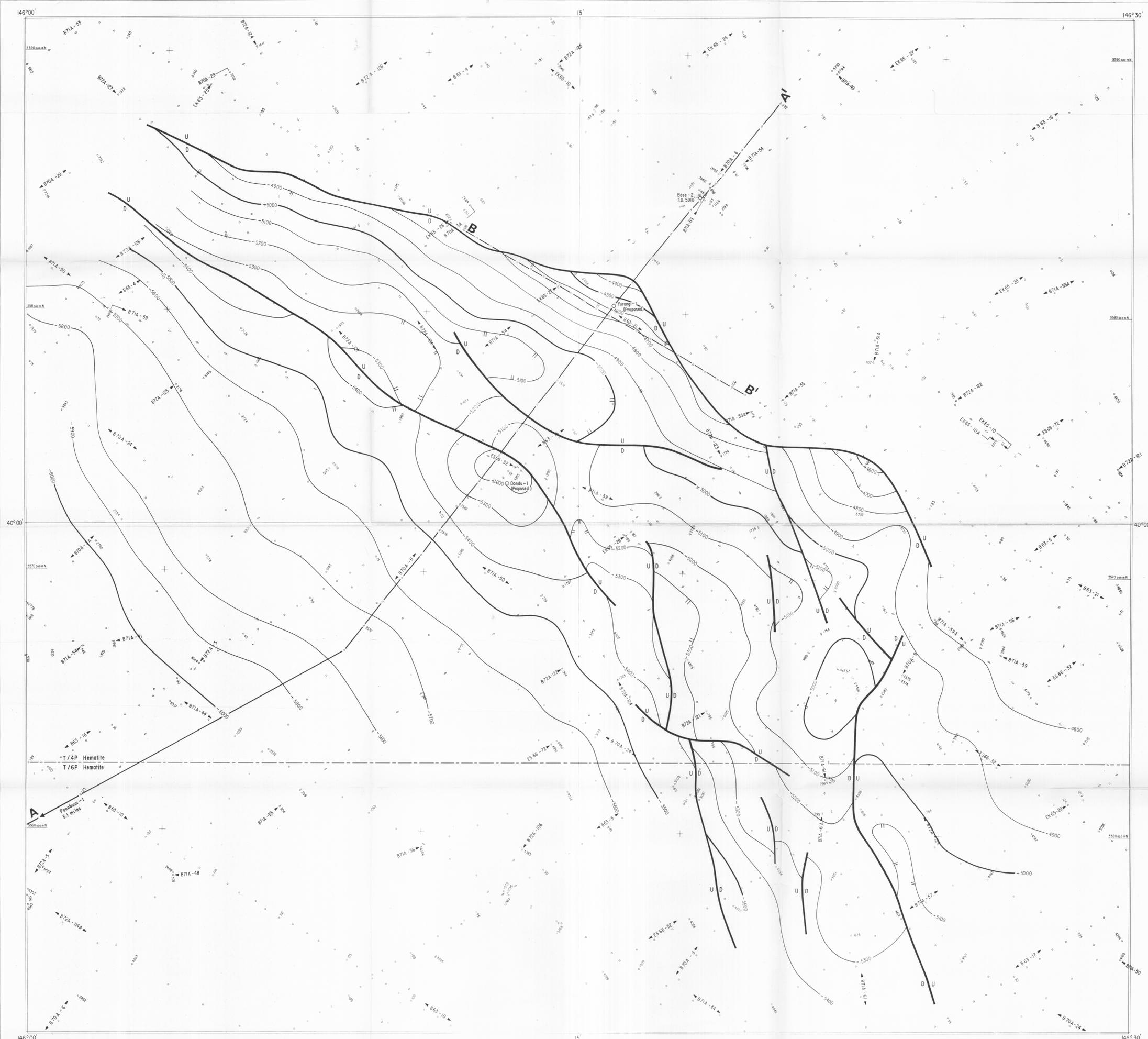
Before final abandonment, recover wellhead by cutting casing 50±' below mud line.

Steven J. Kradman

Drilling Engineering

[Signature]

Drilling Operations



ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.

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

CONTOUR INTERVAL: 100 FEET DATUM: SEA LEVEL

377029 Scale 1:50,000

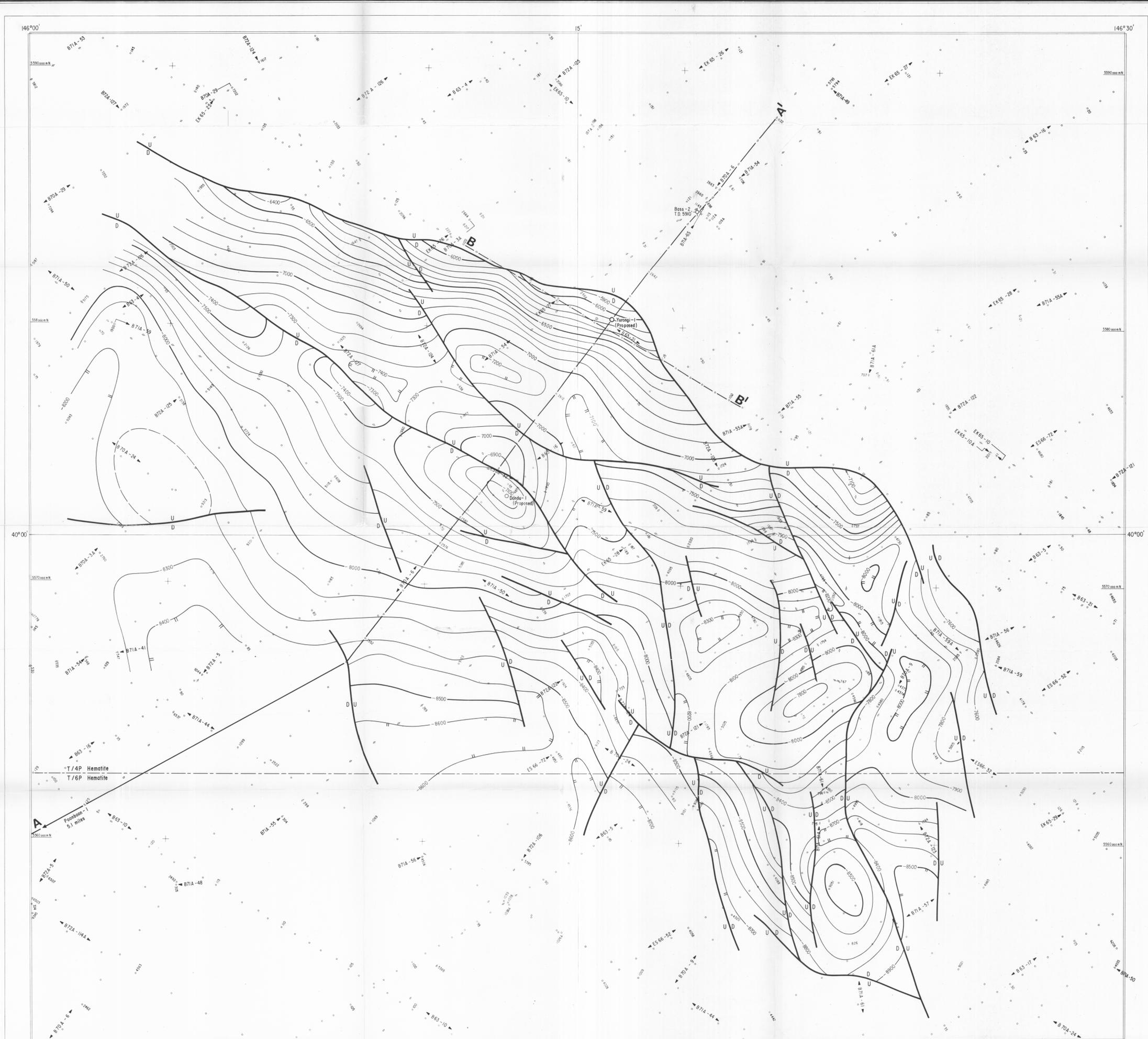
1 1/2 0 1 2
MILES

INTERPRETATIVE

AUTHOR: J. BORDEN DRAWN BY: U. ROSE
TO ACCOMPANY: AUTH TO DRILL YURONGI-1 DATE: FEB. 1973

5cm **PLATE I** CR. 0348P.
Dwg. 1538/09/3

Offset 22



ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.

THE BASS BASIN
TASMANIA
YURONGI AREA
STRUCTURE MAP
TOP LOWER *M. diversus*
377030

CONTOUR INTERVAL: 100 FEET DATUM: SEA LEVEL

Scale 1:50,000

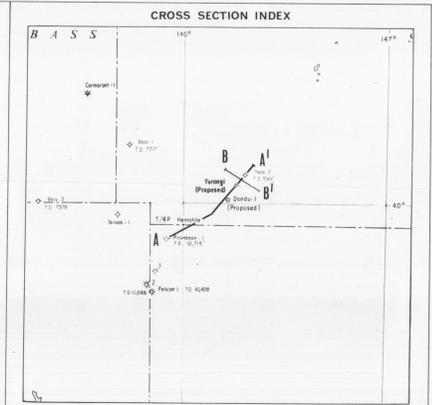
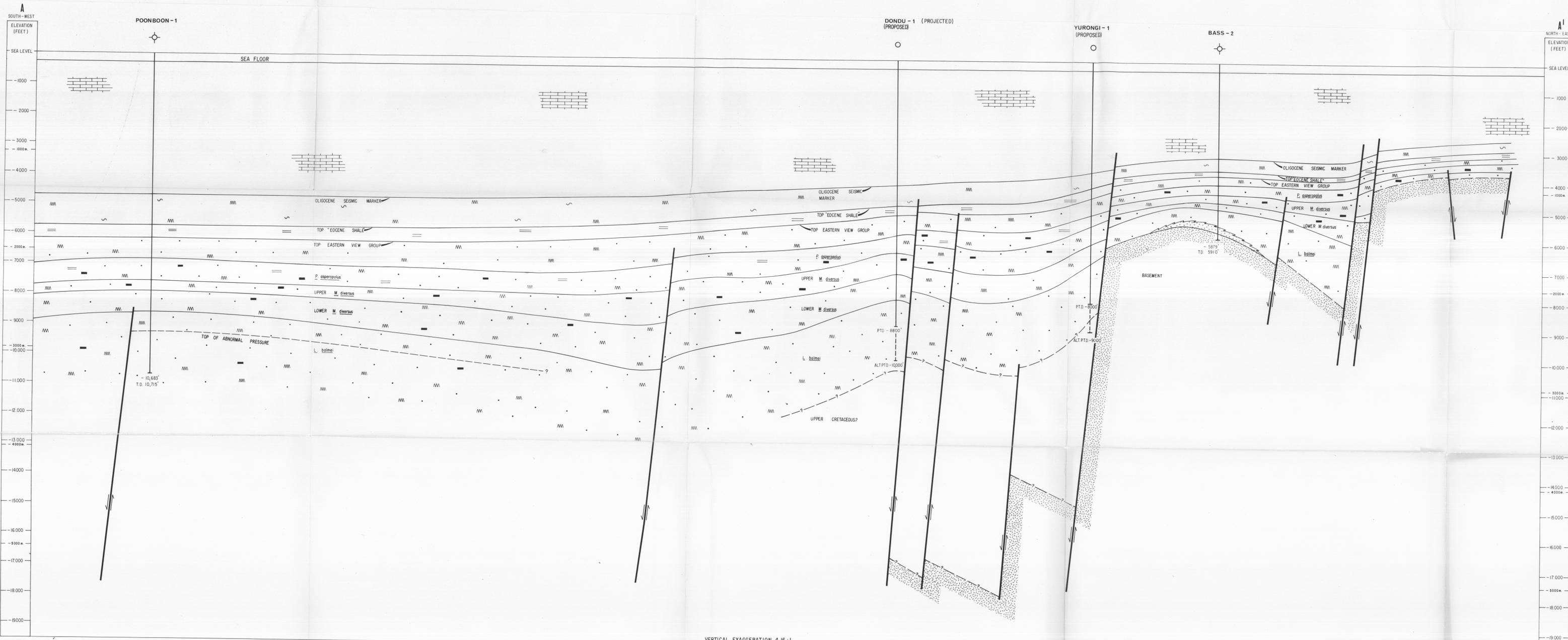
1 2 3 4 5
MILES

INTERPRETATIVE

AUTHOR: J. BORDEN DRAFTED BY: CLEGG
TO ACCOMPANY: AUTH. TO DRILL DATE: FEB. 1973

5 cm PLATE II

OR-03ARA
Dwg 1538/092



LEGEND

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

ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.

BASS BASIN
TASMANIA

YURONGI PROSPECT

GEOLOGICAL CROSS SECTION A-A'

INTERPRETATIVE

377022

Vertical Scale 1 inch = 1000 feet
Horizontal Scale 1:50,000



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

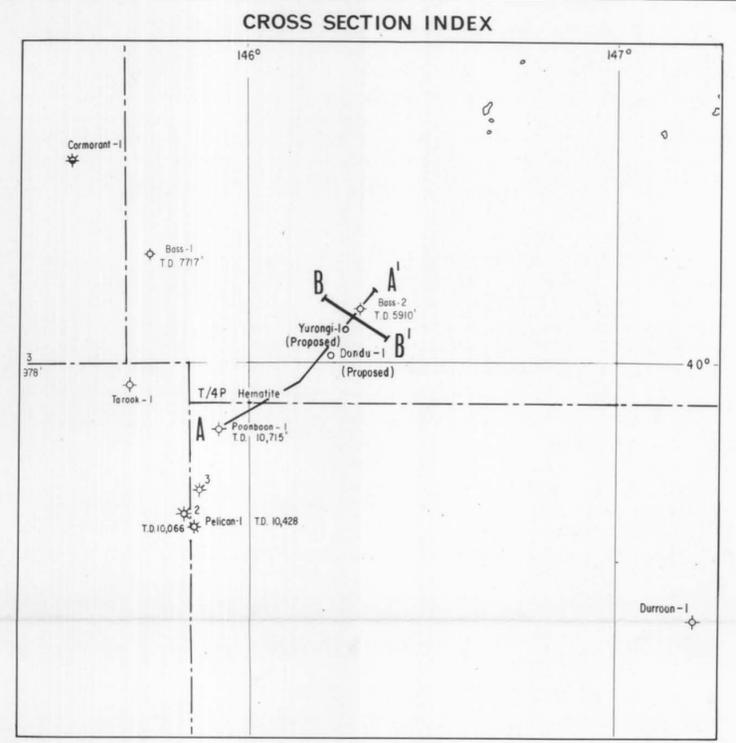
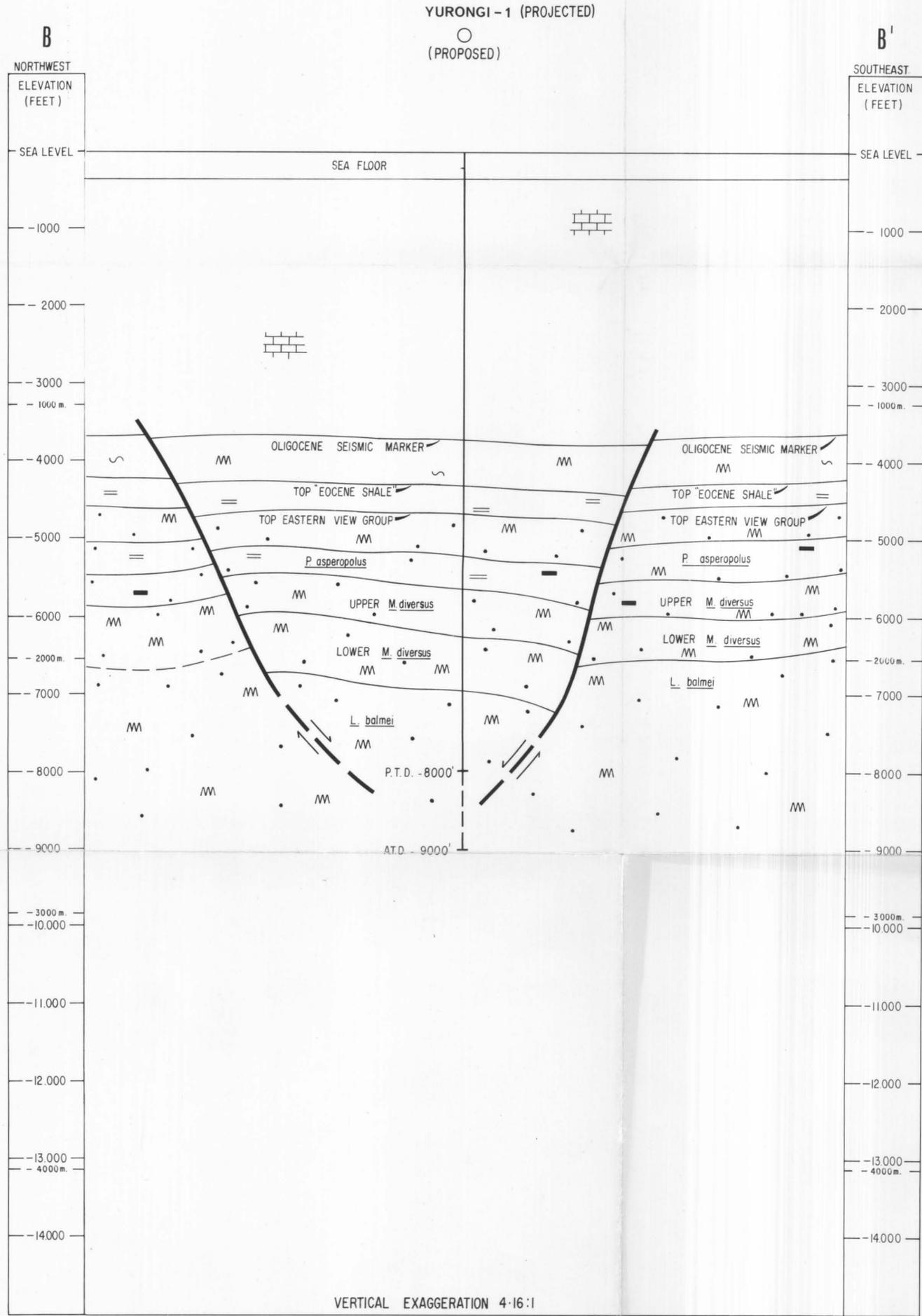
TO ACCOMPANY: AUTHORIZATION TO DRILL YURONGI-1

PLATE IV

OR-03489
Dwg. 03/8/73

VERTICAL EXAGGERATION 4.16:1

© F. SHARPE 722



LEGEND

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

ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.

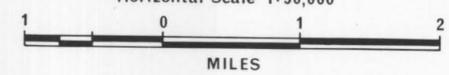
BASS BASIN
TASMANIA
YURONGI PROSPECT

GEOLOGICAL CROSS SECTION B-B'

INTERPRETATIVE

397683

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



AUTHOR: J.H. BORDELON

DRAFTED BY: G. JENNENS

DATE: APRIL 1973

TO ACCOMPANY: AUTH. TO DRILL YURONGI-1

PLATE V

OR-0348A

Dwg. 1538/OP/5



OFFSHORE 22

INTERPRETATIVE

ONE WAY TIME BELOW SEA LEVEL - SECONDS
TWO WAY TIME BELOW SEA LEVEL - SECONDS

ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.
377034

YURONGI - 1

TIME DEPTH CURVE

DATUM : SEA LEVEL
AUTHOR : I.P. HAWKSHAW
DRAFTED BY : HOVICK

CO ORDINATES
LAT : 39° 55' 29.936" S
LONG : 146° 15' 58.866" E

PLATE 6

LEGEND

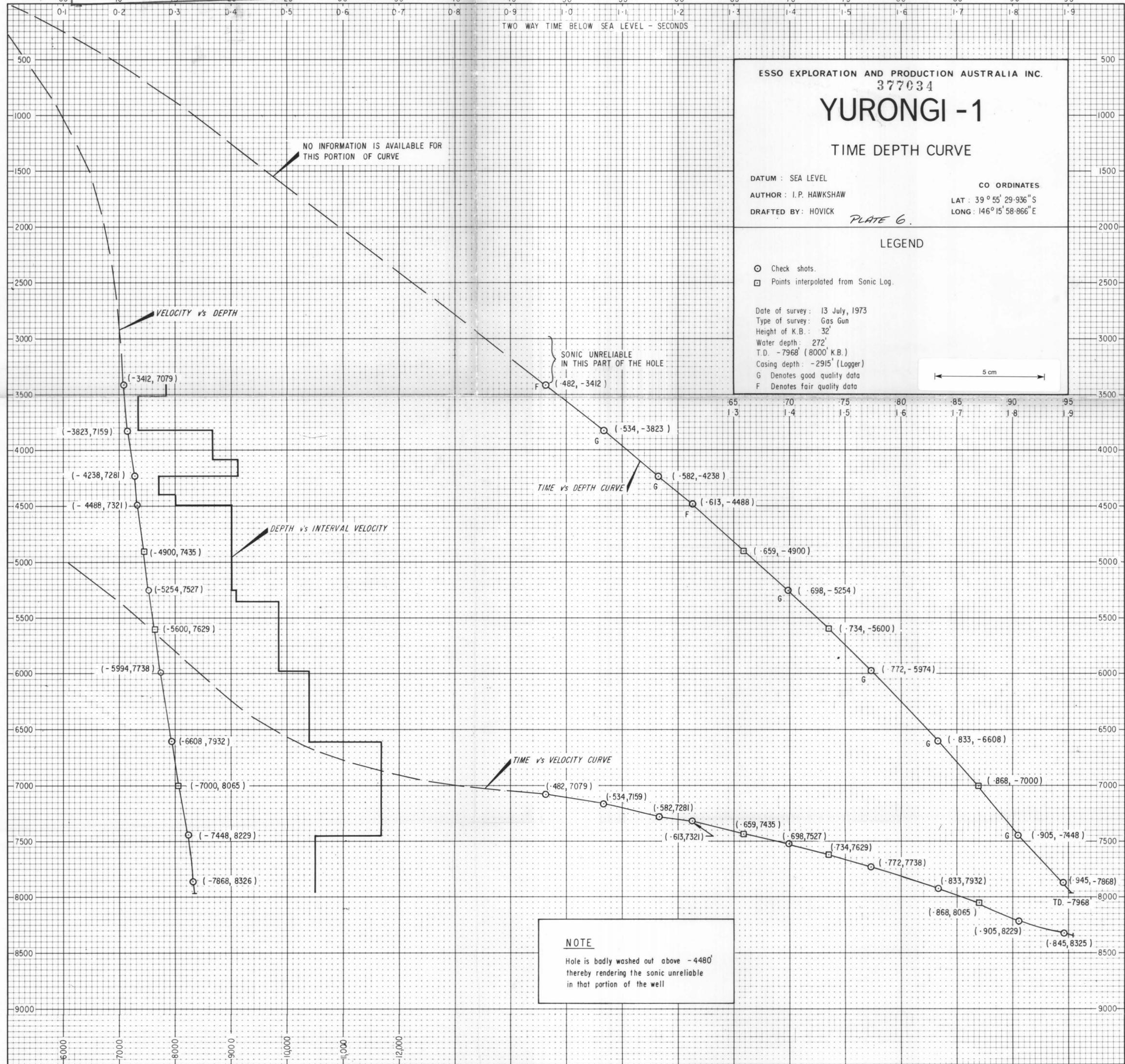
- Check shots.
- Points interpolated from Sonic Log.

Date of survey : 13 July, 1973
 Type of survey : Gas Gun
 Height of K.B. : 32'
 Water depth : 272'
 T.D. -7968' (8000' K.B.)
 Casing depth : -2915' (Logger)
 G Denotes good quality data
 F Denotes fair quality data



AVERAGE VELOCITY - FEET PER SECOND and DEPTH IN FEET BELOW SEA LEVEL

AVERAGE VELOCITY - FEET PER SECOND and DEPTH IN FEET BELOW SEA LEVEL



NOTE
 Hole is badly washed out above -4480' thereby rendering the sonic unreliable in that portion of the well

AVERAGE AND INTERVAL VELOCITY - FEET PER SECOND

DWG. 1563 / OP/1