

TABLE OF CONTENTS

W749

BREAM 4

- 1.0 Proposed Drilling Programme & Proposed Well Progress Curve
- 2.0 Application for Consent to Drill Bream 4
- 3.0 Application and Approval for Abandonment of Bream 4
- 4.0 Weekly Drilling Reports Bream 4 (1-3)

Enclosures

- 1.0 Bream Field Cross Section A-A'
- 2.0 Intersection of Lithological Units with Oil Column
- 3.0 Structure Map Top "Coarse Clastics" (area in vicinity of reservoir has been depth migrated).

9 July 1969

ESSO AUSTRALIA LTD.
DRILLING PROGRAM

GENERAL:

Well Name : Bream-4
 Water Depth : 67m (220')
 Rig : Southern Cross
 Datum : Relative to Kelly bushing
 KB - mean sea level : 21m (69 ft)
 KB - sea floor : 88m (289 ft)

Location : Latitude : 38° 30' 26.928"S
 Longitude : 147° 44' 50.244"E
 Co-ordinates: AMG Zone 55
 X = 565,157m E
 Y = 5,737,596m N

Tolerance : A circle of 50m (165 ft) radius
 Nearest Well Location: Bream-4 lies approximately 1.9 km
 WNW of Bream-3 and 4.6 km WNW of
 Bream-2.

Total Depth : 2421m (7943 ft) KB
 Objective : The primary objective of the well
 is to establish the western extent
 of the Bream oil and gas accumulation
 and to confirm the dimension of the
 oil column.

Note: All depths stated in the program are from the Kelly Bushing (KB) unless stated otherwise.

N. M. Heath
AREA MANAGER

[Signature]
AREA TECHNICAL MANAGER

[Signature]
AREA OPERATIONS MANAGER

15 June 1981

WELL PROGRESS CURVE

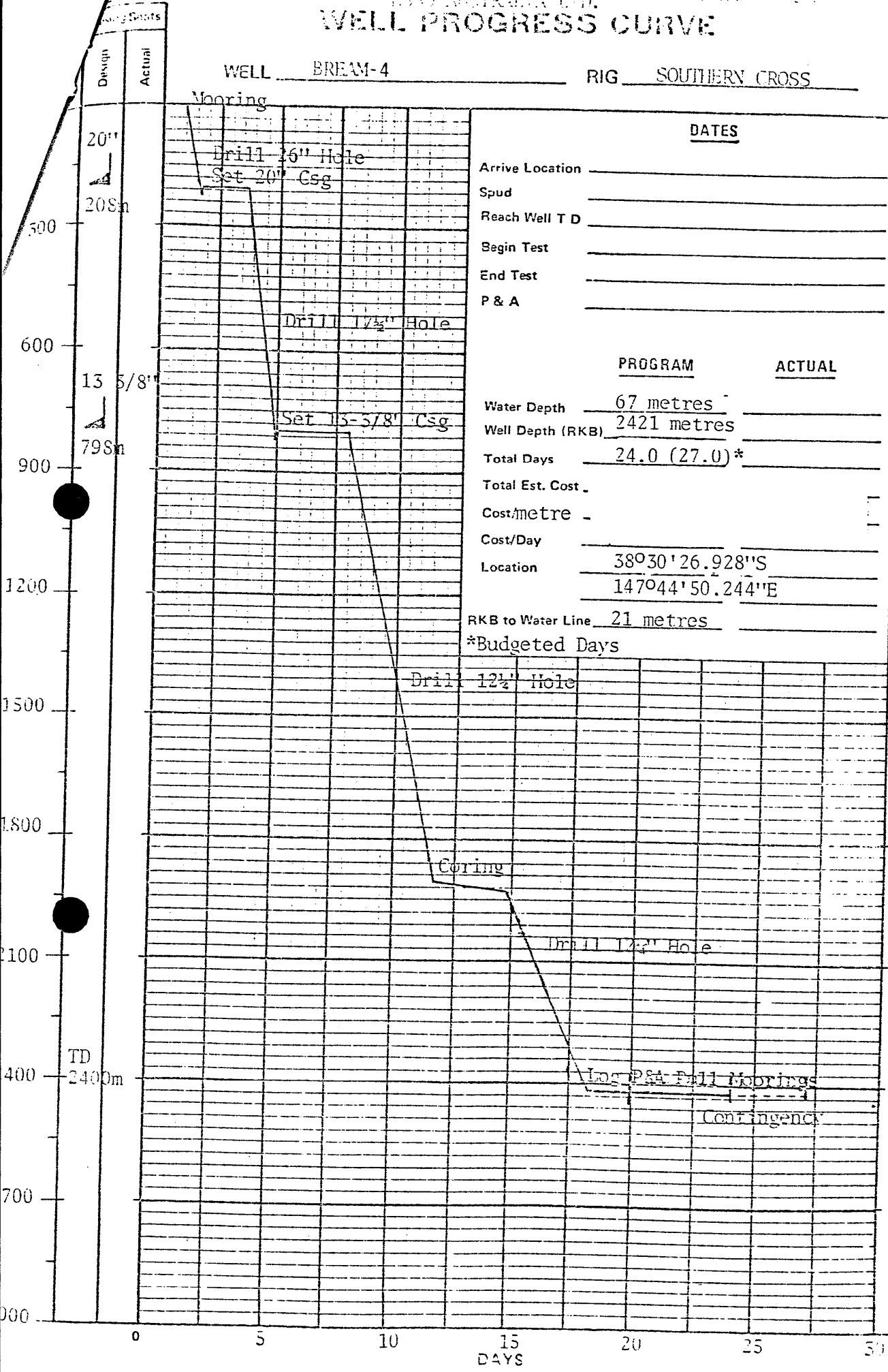
WELL BREAM-4

RIG SOUTHERN CROSS

Log

Projected

Actual



DATES

Arrive Location _____
 Spud _____
 Reach Well T D _____
 Begin Test _____
 End Test _____
 P & A _____

PROGRAM

ACTUAL

Water Depth 67 metres _____
 Well Depth (RKB) 2421 metres _____
 Total Days 24.0 (27.0)* _____
 Total Est. Cost _____
 Cost/metre _____
 Cost/Day _____
 Location 38°30'26.928"S _____
147°44'50.244"E _____
 RKB to Water Line 21 metres _____
 *Budgeted Days

Design
 Actual
 20"
 208m
 500
 13 5/8"
 79Sm
 900
 1200
 1500
 1800
 2100
 400
 2400m
 700
 000

DAYS

15 June 1981

MINING DIVISION **OIL and GAS DIVISION**

150681

COMMONWEALTH OF AUSTRALIA

STATE OF VICTORIA

Petroleum (Submerged Lands)
Act 1967 - 1974

Petroleum (Submerged Lands)
Act 1967

APPLICATION FOR CONSENT TO DRILL

The Designated Authority, Victoria

Hematite Petroleum Proprietary Limited, being the holder of Petroleum Exploration Permit VIC/P1, hereby makes application to drill a well and requests your permission to carry out the proposed operation.

(a)	Well name and number	BREAM-4
(b)	Classification of well	Stepout
(c)	The exact location of the proposed well	Latitude: 38° 30' 26.928" S Longitude: 147° 44' 50.244" E
(d)	Distance from nearest tenement boundary	11 km from south-eastern corner of Vic/L1.
(e)	Height above sea level	Surface Level: Sea Level Kelly Bushing: 21 m Water Depth: 67 m
(f)	Method of drilling proposed and name and type of drilling rig	Rotary drilling "Southern Cross" semi-submersible
(g)	The extent to which coring is intended	Continuously core all hydrocarbon shows
(h)	Name, address and telephone number of person-in-charge of drilling	Mr. L. D. Attaway Esso Australia Limited 70 Foster Street, Sale, Victoria, 3850 Tele: Home (051) 443828 Office (051) 441361

(i) PROPOSED ENGINEERING AND GEOLOGICAL DETAILS:

These may be varied according to conditions encountered during drilling operations.

<u>AGE</u>	<u>FORMATION/HORIZON</u>	<u>DRILL DEPTH</u>
Pliocene/Miocene	Gippsland Formation	88 m
Eocene	Latrobe Group	1855 m
	Coarse Clastics	1922 m
	<u>Total Depth</u>	2488 m

(j) Objectives of well: To establish the western extent of the Bream oil and gas accumulation and particularly to confirm the dimension of the oil column

(k) Drilling Programme To be forwarded *Sent on 9 July 1981*

(l) Proposed Logging Programme

Mud Logging:

Continuous from 20 inch casing shoe. Catch 5 sets of washed and dried samples and one sack unwashed cuttings every 5 metres. One tin containing unwashed samples from each 5 metre interval is required every 25 metres.

Coring:

Continuously core all hydrocarbon shows.

Wireline Logging:

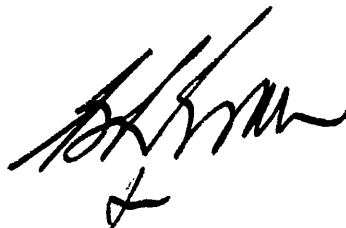
Run 1: (prior to running 13 3/8 inch casing)
ISF-Sonic-GR (GR to sea floor)

Run 2: (at T.D. to 13 3/8 inch casing shoe)
ISF-Sonic-MFSL-GR
LDT-CNL-GR
HDT
Velocity survey - check shots every 150 m

-
- (m) Provision for formation testing: Repeat formation Tester as required
-
- (n) Geological supervision will be undertaken by: A. J. Rigg
Esso Australia Ltd.,
127 Kent Street,
Sydney, N.S.W. 2000
Tele: (02) 236 2571
-
- (o) Name and address of drilling contractor South Sea Drilling Company
GPO Box U1937,
Perth, W.A. 6000
-
- (p) Proposed date of commencement of operations Mid-July
Date to be advised
-

Notification dated:

15th June, 1981



B. R. Griffith
General Manager Exploration
HEMATITE PETROLEUM PTY. LTD.

TELEX MESSAGE TELEX MESSAGE TELEX MESSAGE TELEX MESSAGE

MESSAGE TELEX MESSAGE TELEX MESSAGE TELEX MESSAGE

*
 MINERG AA36595
 ESSOGAO AA55269
 ESSO SALE JULY 31/81 1540 HOURS AMS
 OUR REF: 1664
 TO: THE DESIGNATED AUTHORITY,
 MINISTER OF MINES,
 DEPARTMENT OF MINERALS AND ENERGY,
 ATTN: MR. J.L. LE PAGE
 DIRECTOR, OIL AND GAS DIVISION.

THE APPROVAL OF THE DESIGNATED AUTHORITY IS REQUESTED FOR THE ABANDONMENT OF THE BREAM 4 WELL IN ACCORDANCE WITH THE PROCEDURE AS DISCUSSED IN A TELEPHONE CONVERSATION BETWEEN OUR MR. D.G. KEMP AND MR. J.L. LE PAGE ON THIS DAY JULY 31, 1981.

THE BREAM 4 WELL IS AT A TOTAL DEPTH OF 220 M RKB (140 M SEABED PENETRATION). THE WELL HAS BEEN CASED WITH 127.4 M OF 20 INCH CASING AND CEMENTED BACK TO SURFACE WITH 627 SACKS CLASS 'N' PLUS 12% GEL AND 350 SACKS CLASS 'N' NEAT CEMENT. THE 20 INCH CASING HOE IS AT A DEPTH OF 204 MRKB (124 M SEABED PENETRATION). NO HYDROCARBONS WERE ENCOUNTERED IN DRILLING THE WELL TO THIS DEPTH.

WE PLAN TO ABANDON THE WELL WITHOUT SETTING A CEMENT PLUG IN THE 20 INCH CASING SINCE THE CASING SHOE HAS NOT BEEN DRILLED. TOP OF CEMENT INSIDE THE 20 INCH CASING IS 196 MRKB. A SHOTCAN WILL BE RUN ON WIRELINE AND THE CASING CUT AT 88.6 M WHICH IS 8.6 M BELOW THE SEAFLOOR. THE WELLHEAD AND CASING STUB WILL THEN BE RETRIEVED TO SURFACE.

F.X. PENDARVIS/EXPLORESSO/SALE.
 ESSOGAO AA55269*
 MINERG AA36595

*The above the affinites as Designated Authority,
 This initial section of the Bream 4 well needs to
 be abandoned because of possible damage suffered
 to it by the dropping of the BOP stack
 Abandonment procedure is considered satisfactory
 & your approval under the provisions of
 Clause 13 of the Direction as to Drilling is
 recommended*

*J.L. Page
 Director Oil & Gas Division
 31/7/81*

APPROVED
J.L. Page
 DESIGNATED AUTHORITY
 DATE 5/8/81

JLP:HH

10 August 1981

247


Mr F X Pendarvis
Area Production Manager
Esso Australia Ltd
70 Foster Street
SALE VIC 3850

Dear Sir

BREAM-4 WELL

This is to confirm that the Designated Authority under the provisions of Clause 13 of the Direction as to Drilling has approved the abandonment of the 20" conductor casing string on the above well in accordance with the program outlined in your telex of 31 July 1981.

Yours faithfully


J L LePage
DIRECTOR OIL AND GAS DIVISION

all blocks 11/8
Pen Davin

HEMATITE PETROLEUM PTY. LIMITED

WEEKLY DRILLING REPORT

NO. 1

BREAM-4

Operator: Esso Australia Limited
Drilling Unit: Southern Cross
Location: Latitude: 38° 30' 26.928" S
Longitude: 147° 44' 50.244" E

Water Depth: 67 metres ± 5
Drilling Datum: K.B. (21 m A.S.L.)
Date of Report: 30th July, 1981
Depth: Current 222
Previous Nil
Progress 222 m

Operations: Rig arrived on location July 19 and well spudded 1500 hours July 21, 1981. Due to drilling template rotation after making 8 metres penetration the rig was moved 15 metres, and the well re-spudded 1430 hours July 22. Drilled 26 inch hole to 222 m. Ran and cemented 20 inch conductor at 204 m on 25th July. Ran BOP stack, two 50 foot joints, one 20 foot joint and one 5 foot pup joint of riser; while testing pressure integrity of riser it parted below the pup joint. Recovered BOP. Working on ram package repair at report date.

DRN:ZB:
30.7.81

HEMATITE PETROLEUM PTY. LIMITED

WEEKLY DRILLING REPORT

NO. 2

BREAM-4

Operator: Esso Australia Limited
Drilling Unit: Southern Cross
Location: Latitude: 38⁰ 30' 26.928" S
Longitude: 147⁰ 44' 50.244" E

Water Depth: 67 metres \pm 5
Drilling Datum: K.B. (21 m A.S.L.)
Date of Report: 6th August, 1981
Depth: Well abandoned at 222 m
Progress Nil

Operations: Cut and recovered Pile Joint.
Recovered four post Guide Frame and template.
Rig shut down for the duration of repair work
to the B.O.P. stack and marine riser.

DRN:ES
6.8.81

OIL and GAS DIVISION

HEMATITE PETROLEUM PTY. LIMITED

WEEKLY DRILLING REPORT

NO. 3

BREAM-4

Operator: Esso Australia Limited
Drilling Unit: Southern Cross
Location: Latitude: 38⁰ 30' 26.928" S
Longitude: 147⁰ 44' 50.244" E

Water Depth: 67 metres \pm 5
Drilling Datum: K.B. (21 m A.S.L.)
Date of Report: 13th August, 1981
Depth: Well abandoned at 222m
Progress Nil

Operations: Anchors were retrieved and the rig departed Bream-4 location at 2400 hours 11.8.81. Operations now suspended for the duration of repair work to the B.O.P. stack and marine riser.

DRN:ES
13.8.81

file

PE905442

This is an enclosure indicator page.
The enclosure PE905442 is enclosed within the
container PE905441 at this location in this
document.

The enclosure PE905442 has the following characteristics:

ITEM_BARCODE = PE905442
CONTAINER_BARCODE = PE905441
NAME = Bream 4 Cross Section A-A'
BASIN = GIPPSLAND
PERMIT = VIC/P1
TYPE = WELL
SUBTYPE = CROSS_SECTION
DESCRIPTION = Bream 4 Cross Section A-A'
REMARKS =
DATE_CREATED = 31/12/80
DATE_RECEIVED = 15/06/81
W_NO = W749
WELL_NAME = Bream-4
CONTRACTOR = Esso Australia Ltd
CLIENT_OP_CO = Esso Australia Ltd

(Inserted by DNRE - Vic Govt Mines Dept)

PE905443

This is an enclosure indicator page.
The enclosure PE905443 is enclosed within the
container PE905441 at this location in this
document.

The enclosure PE905443 has the following characteristics:

ITEM_BARCODE = PE905443
CONTAINER_BARCODE = PE905441
NAME = Bream 4 Intersection of Lith. units
with Oil Column
BASIN = GIPPSLAND
PERMIT = VIC/P1
TYPE = SEISMIC
SUBTYPE = HRZN_CNTR_MAP
DESCRIPTION = Bream 4 Map intersection of
Lithological Units with Oil Column
REMARKS =
DATE_CREATED = 31/01/81
DATE_RECEIVED = 15/06/81
W_NO = W749
WELL_NAME = Bream-4
CONTRACTOR = Esso Australia Ltd
CLIENT_OP_CO = Esso Australia Ltd

(Inserted by DNRE - Vic Govt Mines Dept)

PE905444

This is an enclosure indicator page.
The enclosure PE905444 is enclosed within the
container PE905441 at this location in this
document.

The enclosure PE905444 has the following characteristics:

ITEM_BARCODE = PE905444
CONTAINER_BARCODE = PE905441
NAME = Bream 4 Structure Map top coarse
 clastics
BASIN = GIPPSLAND
PERMIT = VIC/P1
TYPE = SEISMIC
SUBTYPE = STRUCTURE_MAP
DESCRIPTION = Bream 4 Structure Map, Top "Coarse
 Clastics" (area in vicinity of
 reservoir has been depth migrated)
REMARKS =
DATE_CREATED = 31/12/80
DATE_RECEIVED = 15/06/81
W_NO = W749
WELL_NAME = Bream-4
CONTRACTOR = Esso Australia Ltd
CLIENT_OP_CO = Esso Australia Ltd

(Inserted by DNRE - Vic Govt Mines Dept)