

GOLDEN BEACH - 1.

503

38° 15' 33" S.
147° 25' 20" E.

GUIDE BASE. APPROX. 72' BELOW
SEA LEVEL.
906039 002

B.O.C. [AUST. LTD] VIC/P8. [PEP 42.]

SPUD. 3-4-67. T.D.R. 25-4-67. W.D. 63'. ABANDONED.
TOTAL DEPTH = 1266'

IES. RUN 1. 2" 536'-1093'
" 1. 5" " "

GEOSERVICES MUDLOG. 548'-1266'

STRATIGRAPHIC LOG. 548'-1260'

LITHOLOGICAL DESCRIPTIONS. 1088'-1260'

" " 548'-1266'

WELL HISTORY

CUTTINGS: 550'-1260. IN STORE.

COMPLETION REPORT.

GOLDEN BEACH-1 (W503)

Well Summary Report

Table of Contents

Well Card

Completion Report

Lithology

Bit Record

Mud Record

Casing and Tubular Report

Plug-Back and Abandonment Report

Figures

Well Location

Status after Abandonment

Enclosures

Stratigraphic Log

Master (Mud) Log

906039 005

COMPLETION REPORT

GOLDEN BEACH NO.1 - COMPLETION REPORT

906089 006

I. SUMMARY

(a) Drilling:

Golden Beach No.1 was spudded in on 3rd April, 1967 in the offshore Gippsland Basin. It was drilled to a total depth of 1266 ft. below guide base and was abandoned prematurely as a dry hole on 2nd May, 1967, as the 13 3/8 inch casing had parted immediately below the seabed during a storm.

(b) Geological:

The complete succession examined, from 548 ft. to 1266 ft., consisted of Tertiary Gippsland Limestone.

There were no indications of hydrocarbons.

II. INTRODUCTION

Golden Beach No.1 was drilled on the crest of a closed anticline mapped from seismic data. The objective was to locate hydrocarbons in the upper part of the Latrobe Valley Coal Measures of Eocene age. Secondary prospects were offered by underlying Upper Cretaceous sediments which have been informally named the "Golden Beach" Formation.

The top of the Latrobe Valley Coal Measures was not reached as the well was abandoned prematurely because of parted casing.

III. WELL HISTORY

(1) General Data

- | | |
|--|--|
| (a) <u>Well name and number</u> | Golden Beach No.1 |
| (b) <u>Name and Address of Operator</u> | B.O.C. of Australia Limited,
8-12 Bridge Street,
Sydney, N.S.W. |
| (c) <u>Name and Address of Tenement Holder</u> | Woodside (Lakes Entrance) Oil Co. N.L.,
792 Elizabeth Street,
Melbourne, C.1, Vic. |
| (d) <u>Details of Petroleum Tenement</u> | Petroleum Exploration Permit No.42 issued to Woodside (Lakes Entrance) Oil Co. N.L. by the State of Victoria and covering an area of 1507 square miles. Interests in the offshore areas are as follows: B.O.C. of Australia Ltd. 20%, Continental Oil Co. of Australia Ltd. 20%, Woodside 40%, Planet Exploration Co. Pty. Ltd. 10% and Australian Oil and Gas Corporation Ltd. 10%, permit is now being assigned to the joint partners. |
| (e) <u>District</u> | Offshore Gippsland, Eastern Victorian waters, 2½ miles from Golden Beach. Warragul 1" = 4 miles sheet. |
| (f) <u>Location</u> | Latitude 38°15'33.02" S.
Longitude 147°25'19.65"E. |

- (g) Elevation Permanent Datum: Mean Sea Level
Well Datum (Guide Base): 72 feet below mean sea level.
- (h) Total Depth 1266 feet.
- (i) Date Drilling Commenced 3rd April, 1967.
- (j) Date Drilling Completed 25th April, 1967.
- (k) Date Well Abandoned 2nd May, 1967.
- (l) Date Barge Released 2nd May, 1967.
- (m) Drilling Time to Total Depth 22 days.
- (n) Status Abandoned.
- (o) Total Cost

(2) Drilling Data

(a) Drilling Contractor Zapata-O.D.E. Pty. Ltd.,
39-41 York Street,
Sydney, N.S.W.

(b) Draw-Works

Make	Ideco
Type	H-2500
Rated Capacity	20,000 feet
Motors	2 x 1000 H.P. Caterpillar D 398.

(c) Derrick

Lee C. Moore 140' x 30' x 14'
1,100,000 lb. hookload capacity.

(d) Pumps (2)

Make	Ideco
Type	1450
Size	18" stroke
Motors	3 x 1000 H.P. Caterpillar D 398.

(e) BOP Equipment

Make	Hydril	Hydril	Cameron
Size	20"	13 5/8"	13 5/8"
Working Pressure (psi)	2000	5000	5000

(f) Hole Size and Depth (from Guide Base)

36"	to	82 feet
26"	to	548 feet
17½"	to	1088 feet
12¼"	to	1266 feet.

(g) Casing and Cementing Details

Size	30"	20"	13 3/8"
Weight	319	94	54.5
Grade	B	J55	J55
Range	3	3	3
Setting Depth	80	520	1009
Cement (sks)	800 construction	1700 construction	1075 construction
Cemented to	Seabed	Seabed	Seabed

(h) Drilling Mud

Salt water with returns to seabed was used to drill to 548 feet prior to setting 20" casing. The remainder of the hole was drilled with a fresh water, bentonite, Spersene, XP20 mud with caustic soda for pH control and barytes for weight control.

Consumptions

<u>Item</u>	<u>Unit</u>	<u>Quantity</u>
Barytes	Sks (x 100 lb.)	2416
Bentonite	(do)	1179
Spersene	Sks (x 50 lb.)	209
XP-20	(do)	105
L.C.M.	(do)	117
Soda Bicarb	Sks (x 93 lb.)	10
Caustic Soda	Drums (x 140 lb.)	18
Cement	Sks (x 94 lb.)	4075

Properties

	0-82	82-548	548-1088	1088-1266
Depth range				
Weight (lbs/gal)	water	water	9.5	10.0
Viscosity (secs)			40	46
Gel			3	3
Water loss (ccs)			8.6	5.5
Filter Cake (mm)			1.5	1.5
pH			10.0	9.5
% Sand			Tr.	Tr.

(i) Fuel and Water Supply (bls)

<u>Water (barge)</u>	<u>Fuel (barge)</u>	<u>Fuel (Service boats)</u>
7537	835.0	930.0

(j) Cement Plugs

	1000-1213	0-198
Depth (ft.)		
Cement (sacks)	200	150
Checked	yes	no

(k) Events leading up to abandonment

At 0900 hrs. on 25th April, 1967 drilling was suspended at a depth of 1266 ft. as the seas had built up to 6 ft. from the west. The bit was pulled into the casing, the drill pipe was hung in the wellhead and the blind rams, kill and choke valves were closed. The Chiksan hoses from the kill and choke lines were also disconnected. The barge was secured at 1000 hrs. by which time the seas were up to 8 ft. in 40 knot winds, both from the west.

The weather conditions at this time showed signs of improvement but 2 hrs. later a rapid deterioration set in. It was decided to pick up the 16 inch riser, to which the kill and choke lines were clamped. However, the cellar deck was by this time inaccessible as the seas were breaking through it. An attempt was made to pull the riser with the kill and choke lines still attached. The autolock was released and a pull taken on the slings, but the slings were unable to take the strain and snapped.

The Meteorology Bureau forecast at 0800 hrs. on 25th April had predicted winds of up to 40 knots from the SW and seas of up to 8 ft. from the west. A slow moderation was indicated. However, 2 hours later a gale warning (max. 50 knot winds and 15 ft. seas) was issued, but this was not received by the barge. Besides a general radio call to all coastal shipping the Met. office also phoned a number of concerns affected by the gale warning, including Esso's Glomar. Unfortunately neither B.O.C.

nor Zapata were contacted although the Met. office had been instructed to phone weather warnings to Port Welshpool and to telex them to B.O.C. in Sale.

The storm increased in intensity, with seas up to 15 ft. and winds up to 55 knots, both from SSW and broad side to the starboard of the barge. The dominant movement of the barge was a roll, of up to 20 degrees towards the SW, somewhat less to the NE, with some pitch. The waves swept frequently through the cellar deck. All equipment on the sponson starboard deck was lost, including two life rafts and a 16 ft. aluminium boat. The centre portion of the handrails on the starboard deck was broken off by chains holding the protective tyres. A door or doors on the starboard side leaked and resulted in some flooding of the quarters on the sponson deck level. The anchor chains were alternately very slack and very taut, with jolting and shuddering of the barge, resulting in six to eight feet of anchor drag towards the north.

The slip joint was pulled over on an angle by the movement of the barge. In this position the bottom of the barge hammered into the riser and the slip joint was impeded. At about 1400 hours, it jammed in an extended position and the riser and rotary table repeatedly came into violent contact. The riser was hammered over by the Rotary table and at 1600 hrs. it broke 15 ft. below the bell nipple. From about midnight the storm gradually abated and at 0930 hrs. the following morning the divers were able to descend and determine the damage. The divers found that the kill line was damaged, the autolock at the base of the flex joint had not released, due to a hydraulic defect, and they also detected a slight movement at the top of the 13 3/8" casing.

Pressure tests located a leak about 8 ft. below the top of the 13 3/8" casing. L.C.M. slugs failed to cure the leak, so it was decided to abandon the well, move the barge 50 feet towards the NE and drill a new hole.

Subsequently it was discovered that the 13 3/8" casing had cracked in the heat affected zone just above the weld joining the 13 3/8" casing head and the pup joint of 13 3/8" casing at the top of the string. This crack extended completely around the circumference of the pipe and was unquestionably due to the stresses set up by the repeated hammering of the marine assembly.

- (1) Side-tracked hole - Nil.

- (3) Logging and Testing
 - (a) Flush samples: Samples were taken from a vibrating screen at 10 foot intervals while drilling. All samples were lagged and caught by the mud logging personnel under the supervision of B.O.C. geologists and are representative of the labelled depth. Representative suites of samples are stored with the Victorian Mines Department and with B.O.C. in Sydney.
 - (b) Coring: Nil.
 - (c) Side-wall sampling: Nil.
 - (d) Electrical Logging: Only one log was taken: an IES of the range 548-1088 feet.
 - (e) Penetration Rate Log: Included as part of the Geoservices log.
 - (f) Gas Log: A continuous hot wire mud gas recorder was used. The cuttings were examined for stain and fluorescence. The gas log is included as part of the Geoservices log.

(g) Deviation Surveys:

Depth (ft.)	91	548	1009
Angle (degrees)	1	3/4	3/4

(h) Temperature Surveys: Nil.

(i) Velocity Surveys: Nil.

(j) Other Well Surveys: Nil.

(k) Production Testing: Nil.

IV. GEOLOGY

(1) History of Exploration:

(a) Geological and Drilling

A large number of holes have been drilled onshore in the Gippsland area, originally for coal and water; but since 1924 a number of deeper holes have been drilled for oil. Small amounts of crude oil were intermittently produced, along with fresh water, in the Lakes Entrance area, but not in commercial quantities.

Since 1954 a number of onshore wells were drilled by Woodside, Frome Lakes and Arco. The only indications of hydrocarbons were shows of gas in North Seaspray No.1, Golden Beach West No.1 and Dutson Downs No.1. These were in the Eocene Latrobe Valley Coal Measures and the Upper Cretaceous "Golden Beach Formation".

In 1965 commercial quantities of gas were discovered by the first well drilled offshore in the area, Esso's Barracouta No.1, in the Latrobe Valley Coal Measures. Since then Esso have drilled a second gas well in the Barracouta field; a dry hole on the Cod structure and 3 oil and gas wells on the Marlin Structure. At Marlin there is oil and gas in the Latrobe Valley Coal Measures and gas in the Upper Cretaceous.

Surface geological mapping of the Gippsland region has largely been done by the Victorian State Mines Department and some by the Commonwealth Bureau of Mineral Resources.

(b) Geophysical

Much of the onshore part of the Gippsland Basin has been covered by gravity and aeromagnetic surveys by the Bureau of Mineral Resources; an aeromagnetic survey of part of the offshore area of the basin was conducted for Haematite Explorations Pty. Ltd. The gravity and aeromagnetic results broadly define the major geometry of the basin.

Seismic surveys have delineated structures within the basin, onshore and offshore. An offshore seismic survey by Western Geophysical Company in tenement P.E.P.42 defined the Golden Beach structure down to the upper part of the Latrobe Valley Coal Measures; coal seams in this unit reduce the quality of deeper reflections so that structural control is limited below the upper part of the unit. A hydrosonde survey by Australian Hydrographics was conducted in early 1967 to relate the Golden Beach structure to onshore land survey control.

(2) Regional Geology

The Gippsland Basin is a relatively small area of Jurassic to Tertiary deposition. The generalised stratigraphy of the basin is as follows:

<u>Time Scale</u>	<u>Formation</u>	<u>Environment & Lithology</u>
Quaternary/Recent	Haunted Hill Gravels	Fluviatile gravels.
Pliocene	Jimmy's Point Formation	Brackish water sands and gravels.
Miocene	Tambo River Formation Gippsland Limestone	Marine fossiliferous marls. Marine limestones and marls.
Oligocene	Lakes Entrance Formation	Marine marls and sands.
UNCONFORMITY		
Palaeocene/Eocene	Latrobe Valley Coal Measures	Continental sands, coals and clays.
Upper Cretaceous	"Golden Beach Formation"	Marine and brackish water sandstones, siltstones and clays.
Jurassic/Lr. Cretaceous	Strzelecki Group	Fluviatile siltstones, sandstones and clays.

(3) Stratigraphic Table

The following stratigraphic section was penetrated in Golden Beach No.1.

<u>Age</u>	<u>Formation</u>	<u>Formation Top</u> (<u>from Guide Base</u>)	<u>(From Mean S.L.)</u>
Miocene	Gippsland Limestone	not identified	
Total depth		1266	1338

(4) Stratigraphy

Note: No sample returns above 548 feet.

Miocene (Gippsland Limestone 548-1266 feet)

548- 625 Limestone, white, bioclastic with bryozoan fragments, minor Foraminifera, slightly glauconitic, quartzose and micaceous.

625- 640 Sand, yellow to light brown, considerably fractured grains with yellow ferruginous staining in fractures. Most grains about 1 mm diameter.

640- 660 Limestone, as above.

660-1266 Alternations of Limestone and Marl:

Limestone as above.

Marl light grey with numerous fossil fragments.

Fossils include Bryozoa, Foraminifera, Corals, Molluscs.

(5) Structure

Golden Beach No.1 was drilled on the highest point of a domal feature delineated by seismic. The structure covers an area of about 15 square miles with a maximum closure of 250 feet, as mapped on the unconformity at the base of the marine Tertiary (top of the Latrobe Valley Coal Measures). The thick coals of the Latrobe Valley Coal Measures prevent seismic investigation below the top few hundred feet of this formation, but it is assumed that the structure is coincident at greater depth.

(6) Relevance to Occurrence of Hydrocarbons

The objectives of the well were not reached, so the well did not contribute to the knowledge of hydrocarbon occurrence in the area.

(7) Porosity and Permeability of Sediments Penetrated

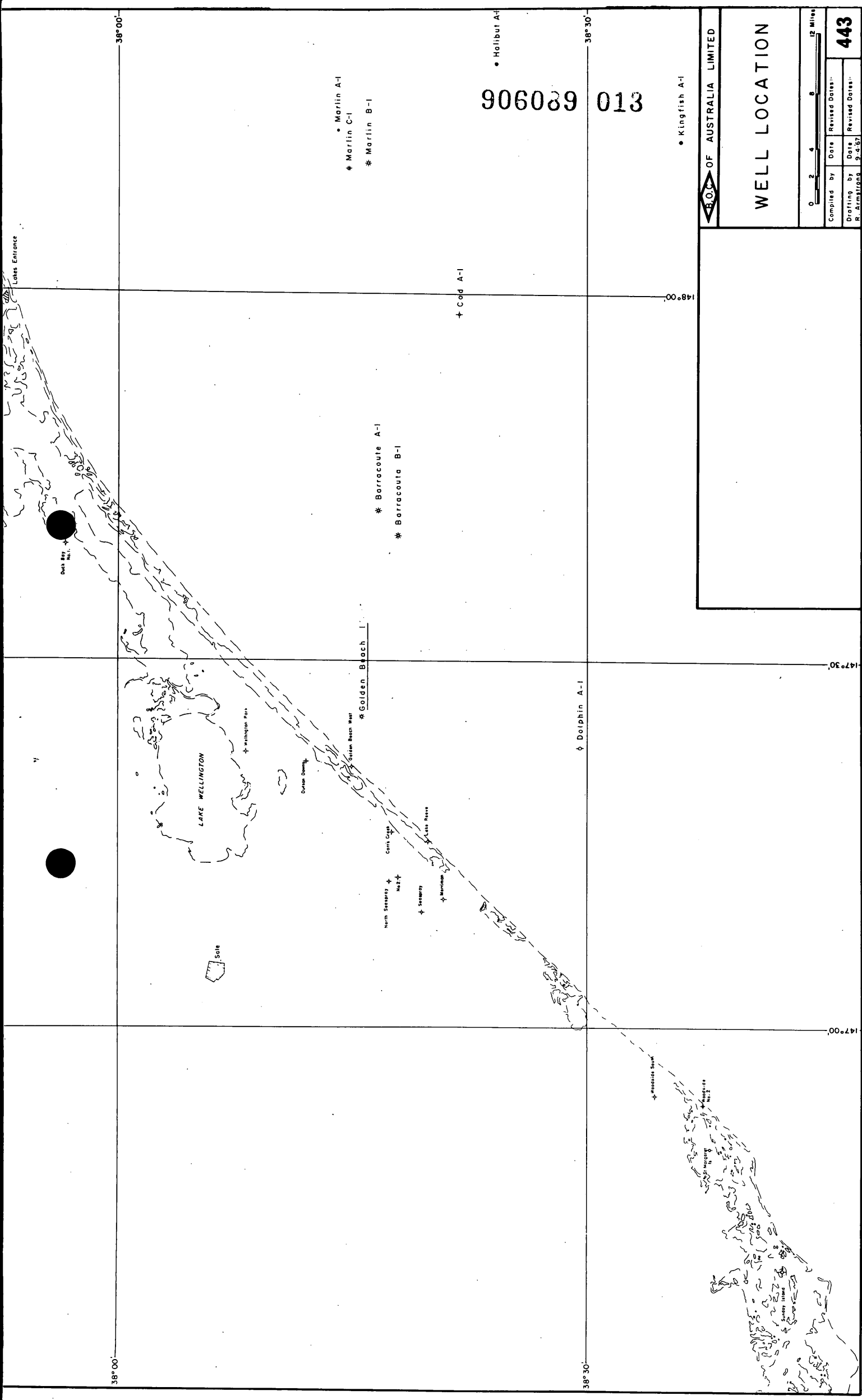
The only indications of porosity or permeability in the short succession drilled were poor to fair granular porosity in the range 625-640 feet.

(8) Contribution to Geological Concepts Resulting from Drilling

The section drilled correlates with Golden Beach West No.1 and confirms that Golden Beach No.1 is approximately 80 feet structurally higher.

V. REFERENCES

Esso	Well Completion Report - Barracouta A-1
Esso	Well Completion Report - Marlin A-1
Woodside	Well Completion Report - Golden Beach West No.1
T.C. Earls	Gippsland Basin Evaluation (Letter T.C.E.2)
T.C. Earls	Interim review of Mesozoic Prospects in the Gippsland Basin Onshore Area (Letter T.C.E.3)
Others	Listed in Letter T.C.E.2.



906089 013

ROY OF AUSTRALIA LIMITED

WELL LOCATION

0 2 4 8 12 Miles	
Compiled by	Date
Revised by	Revised Date
R. Armstrong	
9.4.57	

443

GOLDEN BEACH NO.1

STATUS AFTER ABANDONMENT

906089 014

SEA BED

30" casing to 80'
20" casing parted at 12'
and dropped 40'
36" hole to 82'

30" casing cemented to seabed
20" casing cemented from 12'
to seabed
13 3/8" casing cemented to
seabed
Cement plug from 198' to seabed

20" casing to 520'
26" hole to 548'

20" casing cemented about shoe

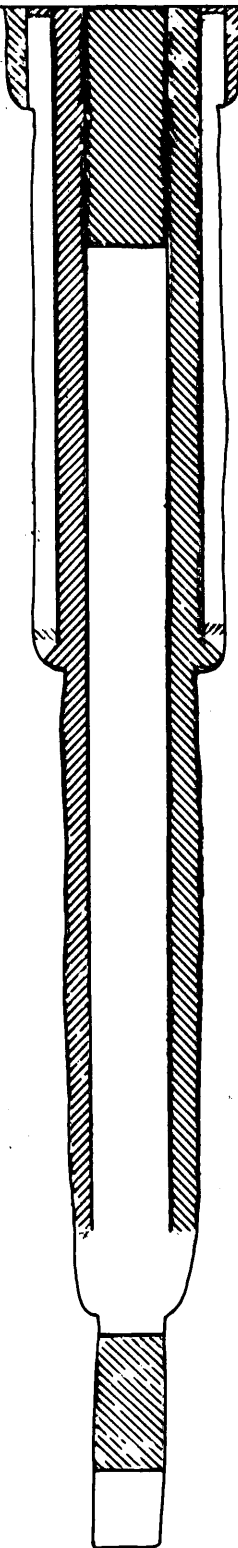
13 3/8" casing to 1009'

17 1/2" hole to 1088'

Cement plug from 1213'-1100'

12 1/4" hole to 1266'

T.D.



LITHOLOGY

B.O.C. OF AUSTRALIA LTD
CASING AND TUBING TALLY

Form C - 4
906039 016

Page 1 of 1 Joint No. 1 to 24 Date 19th April 1967

WELL: Golden Beach No.1 Size 13 3/8" Weight 54.5 lb Grade J55 Range 3 Condition Good

Manufacturer Threads: On Off No. of Threads Butt. Coupling: Short Long

No. of Joints: Received at Well 44 Used 25 Disposition of Joints not used P. Welshpool

Length of Cut-Off Joint above casing bowl Disposition Landed at seabed

Joint No.	Length of Joint	Joint No.	Length of Joint	Joint No.	Length of Joint	Joint No.	Length of Joint
01	40 10	31		61		91	
02	43 25	32		62		92	
03	41 50	33		63		93	
04	41 60	34		64		94	
05	41 50	35		65		95	
06	41 30	36		66		96	
07	41 60	37		67		97	
08	41 40	38		68		98	
09	42 10	39		69		99	
10	40 05	40		70		00	

TOTAL 414 40 TOTAL TOTAL TOTAL

11	41 60	41		71	
12	40 30	42		72	
13	41 20	43		73	
14	40 20	44		74	
15	42 40	45		75	
16	42 20	46		76	
17	42 10	47		77	
18	42 40	48		78	
19	40 70	49		79	
20	42 00	50		80	

TOTAL 415 10 TOTAL TOTAL TOTAL

21	42 30	51		81	
22	41 60	52		82	
23	41 90	53		83	
24	42 00	54		84	
25	(w/h 14 70	55		85	
26	body)	56		86	
27		57		87	
28		58		88	
29		59		89	
30		60		90	

TOTAL 182 50 TOTAL TOTAL TOTAL

TALLY SUMMARY

Group No. Ending	Length (Forward)
10	414 40
20	415 10
30	182 50
40	
50	
60	
70	
80	
90	
00	
TOTAL	1012 00

Tally By: _____
Checked By: _____

(Note: Include casing shoe and collar in first joint)

REMARKS: _____

47
882

LITHOLOGICAL DESCRIPTION

GOLDEN BEACH NO. 1

PAGE. /

906039 017

Depth.	Percentages.						Remarks.
	LST	SST	SAND	SILT	CLAY	COAL	
548 - 50	100						Lst: wh., bioclast, frag. foram, fragments up to 1.5 mm across. Minor poor intergran. porosity
- 60	100						
- 70	100						glau. contains partially replacing foram. also contain minor well rounded clear quartz grain up to 5? well rounded fractured quartz grains (1 mm) with yellow coating which has also penetrated all fractures sandstone coated as previously. Yellow coating possibly iron staining up to 5% sand.
- 80	100						
- 90	100						up to 5% sand. clay is light brown. Tr. Calcarenite made up of fine forams, generally angular, minor quartz and carb. fragments with a brown calc. matrix. poorly sorted. limestone disintegrated is probably possibly calcarenite broken up to 10% quartz. minor brown siliceous grains.
- 600	100						
- 610	100						Clay is light gray, definitely <u>marl</u> containing Bygonia foram. Limestone is a Calcarenite. Lst. probably made up of interbedded marl and Calcarenite. no quartz present. minor fragments of Cyprina (Lanellibach)
- 620	100						
- 630	95		5				No FLUOR.
- 640	50		50				
- 650	100						Tr. Tr. Tr. Tr. Tr. Tr.
- 660	100						
- 670	60						Tr. Tr. Tr. Tr.
- 680	60						
- 690	50						Tr. Tr.
- 700	70						
- 710	20						Tr. Tr.
- 720	30						
- 730	50						Tr. Tr.
- 740	40						

LITHOLOGICAL DESCRIPTION

906039 018

GIPPSLAND LIMESTONE FORMATION

- 548- 625 Limestone, white bioclastic with Bryozoan fragments, minor forams, slightly glauconitic, quartzose and micaceous.
- 625- 640 Sand, yellow to light brown, considerably fractured with yellow staining throughout fractures. Most grains are approximately 1 mm in size.
- 640- 660 Limestone, white bioclastic as for 548-625 ft.
- 660- 700 Interbedded Limestone and Marl:
Limestone, white, bioclastic as for previous interval.
Marl, light brown with numerous fossil fragments and minor quartz grains.
- 700- 850 Marl; light grey with numerous Bryozoa fragments, minor forams, corals and molluscs, slightly glauconitic and quartzose.
- 850-1240 Interbedded Limestone and Marl:
Limestone, white, bioclastic with Bryozoan fragments and forams, slightly micaceous, glauconitic and quartzose.
Marl, light grey with Bryozoan fragments and forams throughout.
- 1240-1266 Marl, light grey with Bryozoan fragments and forams throughout.

LITHOLOGICAL DESCRIPTION

GOLDEN BEACH NO. 1

Depth.	Percentages.						Descriptions	Remarks.
	LST	SST	SAND	SILT	CLAY	COAL		
1088 - 1100	100						LIMESTONE fragmental, organic (bioclastic), ^{white,} medium to coarse (up to 6.8mm) grained fragments of Bryozoa and forams tests, angular; rare white mica. ? poor intergranular porosity	approx. 5% forams
1100 - 1110	60				40		LIMESTONE essentially as previous sample; MARL (probably host-matrix to fragmental organic forams) - consists of calcareous clay with angular, clear, silt-sized quartz grains; minor rounded fine grains of glauconite (apple green) and dark (green) grains (? mineral) - (when dry, rock is buff to light grey, crumbly)	
1110 - 1120	20				80		LIMESTONE medium grained; bioclasts subangular to subrounded MARL	rare salmon-tinted clear subrounded medium-sized quartz? black(?) mineral also.
1120 - 1130	80				20		LIMESTONE white bioclastic Bryozoa limest. slightly micaceous and quartz. Forams present but rare. MARL light grey appears in clay - cutting	
1130 - 1140	60				40		LIMESTONE MARL > as for previous but T ₁ glauconite?	
1140 - 1150	70				30		LIMESTONE MARL Forams more common than previously	
1150 - 1160	70				30		LIMESTONE MARL > as previously	
1160 - 1170	70				30	70	LIMESTONE MARL white bioclastic with glauconite present - some Bryozoa fragments light grey	

906069 019

Depth.	Percent: ges.						Descriptions	Remarks.
	LS	SST	SAND	SILT	CLAY	SHALE		
1170 - 1180	80				20		<p>LIMESTONE white, brachiopods, fragments up to 3 mm, also normally 1 mm, Bryozoa. Some slightly glauconitic, rarely micaceous or quartzose. Irregularly subangular or poorly probably present.</p> <p>MARL light grey, clay.</p> <p>LIMESTONE considerable micaceous in mass</p>	
1180 - 1190	50				50		<p>LIMESTONE Bryozoa lsd. Also contain fragments with Brachiopods probably all eroded</p>	
1190 - 1200	50				50		<p>LIMESTONE > as previously. Little to no quartz present.</p>	
1200 - 1210	50				50		<p>LIMESTONE > as previously</p>	
1210 - 1220	40				60		<p>LIMESTONE grain of glauconite more common. Rare clear angular quartz grains</p>	
1220 - 1230	40				60		<p>MARL light grey glauconite (dark green) probably derived from here.</p>	
1230 - 1240	30				70		<p>LIMESTONE > as previously</p>	
1240 - 1250					100		<p>MARL with minor fossil fragments</p>	
1250 - 1260	20				80		<p>LIMESTONE</p>	

906089 020

906039 021

BIT RECORD

LITHOLOGICAL DESCRIPTION

GOLDEN BEACH NO. 1

PAGE. 3

906089 022

Depth.	Percent: ges.						Descriptions	Remarks.
	LST	SST	SAND	SILT	CLAY	COAL		
890 - 900	80				20		white Bryozoa limestone. Hardly Glauconitic, fossiliferous with Bryozoa, Foram & small black. No quartz.	
900 - 910	90				10		Bryozoa-limestone, rich in glauconite.	
910 - 920	70				30		Smaller percentage of fossil fragments. Generally white fragments (very fine to coarse) of calcite.	
920 - 930	80				20		mainly Bryozoa fragments. Glauconite rare.	
930 - 940	90				10		mainly calcarenite. Has very coarse grain of glauconite present.	
940 - 950	80				20		containing fossil fragments & calcarenite.	
950 - 960	80				20			
960 - 970	80				20			
970 - 980	60				40		Foram more common. Also tend to be flatter type than previous.	
980 - 990	50				50		mainly Bryozoa fragments. Also tend to be finer.	
990 - 1000	70				30		Glauconite rare, quartz absent.	
1000 - 1010	70				30		Foram extremely common.	
1010 - 1020	70				30		numerous fragments of Bryozoa, and Foram.	
1020 - 1030	40				60		Fossil fragments.	
1030 - 1040	50				50		Glauconite more common.	
1040 - 1050	70				30			

LITHOLOGICAL DESCRIPTION

GOLDEN BEACH NO. 1

PAGE. 4

906039 023

Depth.	Percentages.						Descriptions	Remarks.
	IST	SST	SAND	SILT	CLAY	COAL		
1050 - 1060	80				20		Limestone white, mainly fossil fragments (Bygonia, Forams) also calcareous compound of siliceous white fragments, slightly glauconitic. Color light gray, irregularly a mass.	
1060 - 1070	90				10		Almost entirely Bygonia fragments and Forams. very little glauconite.	
1070 - 1080	80				20		Beach Forams and Bygonia fragments.	
1080 - 1088	90				10		very little glauconite present.	
							DEPTH OF 17 1/2" HOLE 1200 R.T. 1088 BELOW GUIDE BASE.	

906089 025

DAILY MUD RECORD

B.O.C. OF AUSTRALIA LTD.

DRILLING MUD RECORD

906039 026

WELL Golden Beach No.1 AREA Gippsland

MUD COMPANY Magcobar SERVICE ENGINEER L. Berth

R.T.		Properties							Additives					
Date	Depth 6.00 AM	Weight (lbs/gal)	Visc. (Secs.)	Gel.	W/L (ccs)	Filter Cake (mm.)	P.H.	Sand %	A	B	C	D	E	F
4/4	159	Water	with	mud pills						132				
5	203		"	"						130				
6	"		"	"						122			3	
7	"		"	"										
8	660		"	"						50				
9	"		"	"										
10-14	"	20" casing								70	25	13	2	
15	"									145	24	12	6	10
16	760	9.8	46		11.5	1.0	9.3	6.0	700	68	30	15	1	
17	1200	9.5	40		8.6	1.5	10.0	Tr.						
18	"									101	16	8		
19	"	9.6	40		11.5	1.5	10.0	Tr.						
20-23	"	13 3/8" casing												
24	"								299	79	74	37	3	
25	1369	10.0	47		5.6	1.5	9.7		600					
26	1378	10.0	46		5.5	1.5	9.5	Tr.						
27	"													
28	"	10.0	43		5.9	1.5	9.5	Tr.	600	147	40	20	3	
29	"	10.0	43		5.9	1.5	9.5	Tr.	217					
30	"													
1/5	"									135				
SUB-TOTAL									2416	1179	209	105	18	10
TOTAL									2416	1179	209	105	18	10

A Barytes x 100 lb. B Bentonite x 100 lb. C Spersene x 50 lb. D XP20 x 50 lb.

E Caustic Soda x 140 lb. F Sodium Bicarb x 93 lb. Also used: LCM
Total 117 (x 50 lb.)

Signed

B.O.C. OF AUSTRALIA LTD.
CASING RUNNING AND CEMENTING REPORT

Form B - 2

Surface Casing
~~Intermediate Casing~~ O.D. 13 3/8
~~Production Casing~~
IDP

GENERAL

906039 027

Well No. 1 Location Golden Beach Date 19th April 1967

K.B./G.S. Elevation _____ K.B./G.S. Csg. Flange _____ Total Depth (Driller) 1200'

Hole Size	<u>17 1/2</u>			Casing in Hole	<u>20"</u>		
Depth	<u>1200</u>			Depth Set	<u>591</u>		

Mud: Type Sp. XP20 Wt. 9.6 Visc. 40 W.L. 11.5

B.O.P.'s 20" Hydril

RUNNING

Power Tongs _____ Torque: Max. _____ Nom. _____ Min. _____

Time Pipe Started 1400 Time on Bottom 0130 Time Circ. 1/2

Fill-up Points Each 6 jnts. Btm. by Casing 1122 Ft. up from K.B. 10'

Remarks Running of casing was adversely affected by condition of thread protectors requiring use of welder for removal.

CEMENTING

Cement Co. Halliburton Operator D. Knackskedt Time on Location Resident

Types & Quantities of Cement 1025 sacks (construction)

Water ahead 20 Bbls. Mix Times: Start 0303 Finish 0342 Slurry Wt. 15.3

Calc. Disp. 161 Bbls. Est. Disp. time 25 Mins. Start 0344 Finish 0410

Max. Pumping Press. 400 Bump. Press. 1000 Bumped by Halliburton No. times bump. 1

Cement Returns: Yes/No. Remarks Circulation lost after 80 bbls of chase returns (partial) obtained after 115 bbls.

LANDING

Time Landed 0130 Date 19/4/67 Init. Wt. of Cem. String (Less Blks.) _____

Wt. Landed in Slips _____ Make of Bowl _____ Nom. Size _____ Series _____

Slip and Seal Assembly _____

Remarks _____

Operator's Representative _____

906039 028

CASING AND TUBULAR REPORT

CASING INFORMATION

906039 029

Surface Casing
~~XXXXXXXXXX~~ O.D. 30"
~~XXXXXXXXXX~~
~~XXXX~~

Well No. 1 Location Golden Beach Date April 7th 1967

Joints on Location	Feet on Location	Casing Weight	Grade	Range	Thread	Threads & Couplings	Make	Joints Run	Depth Landed	Feet Run in Well
5	200	319	B		Weld	-		2	Sea bed	82
									(192' below R.T.)	

Shoe: Make _____ Type _____ Length 1.8

Collars: Make - Type - Length

Landing Joint (when used) Length - - - - -

Overall Length of Casing String - - - - - 82

Feet up from K.B. (Subtract) - - - - -

Setting Depth: 192 By Driller below R.T. By Tally

Shoe Joint: _____ Overall (Subtract)

Float Collar Landed: - By Driller By Tally

CENTRALIZERS: SCRATCHERS:

Make - Make -

Number - Number -

Positions - Positions -

No. of Joints Welded Two and shoe

Remarks Shoe dimension included in first joint

B.O.C. OF AUSTRALIA LTD.
CASING RUNNING AND CEMENTING REPORT

906039 030

Form B - 2

Surface Casing
~~Intermediate Casing~~ O.D. 30"
~~Production Casing~~
~~Max~~

GENERAL

Well No. 1 Location Golden Beach Date April 7th 1967

K.B./G.S. Elevation _____ K.B./G.S. Csg. Flange _____ Total Depth (Driller) 203

Hole Size	36"	26"-17½"		Casing in Hole	82'-0"		
Depth	194'-0"	9'-0"		Depth Set	192KB		

Mud: Type Gel. Wt. 9.5 Visc. 50 W.L. -

B.O.P.'s _____

RUNNING

Power Tongs _____ Torque: Max. _____ Nom. _____ Min. _____

Time Pipe Started 09.00 Time on Bottom 11.00 Time Circ. ½ hr.

Fill-up Points _____ Btm. by Casing 192 KB Ft. up from K.B. -

Remarks welded joints

CEMENTING

Cement Co. Halliburton Operator D. Knackstedt Time on Location Resident

Types & Quantities of Cement Construction. 800 sacks

Water ahead _____ Bbls. Mix Times: Start 12.35 hrs. Finish 13.20 hrs. lbs per gal. Slurry Wt. 15.5/1600

Calc. Disp. 6 Bbls. Est. Disp. time _____ Mins. Start _____ Finish _____

Max. Pumping Press. _____ Bump. Press. _____ Bumped by _____ No. times bump. _____

Cement Returns: Yes/No. Remarks Displaced only through surface lines & stinger

LANDING

Time Landed 11.00 Date April 7th 1967 Init. Wt. of Cem. String (Less Blks.) 25000 lbs.

Wt. Landed in Slips _____ Make of Bowl _____ Nom. Size _____ Series _____

Slip and Seal Assembly _____

Remarks The guide base was landed in a crater on the sea bed putting the top of the 30" hole at 110'-0" as opposed to 102'-0". (Rotary to water being 39.10 & water depth 63.00)

Operator's Representative _____

B.O.C. OF AUSTRALIA LTD.
CASING AND TUBING TALLY

906039 Form C-4 031

Page 1 of 1 Joint No. 1 to 2 Date April 7th 1967
 WELL: Golden Beach No.1 Size 30 Weight 319 Grade B Range _____ Condition OK
 Manufacturer _____ Threads: On Off No. of Threads _____ Coupling: Short Long
 No. of Joints: Received at Well 5 Used 2 Disposition of Joints not used Welshpool

Length of Cut-Off Joint above casing bowl _____ Disposition _____

Joint No.	Length of Joint	Joint No.	Length of Joint	Joint No.	Length of Joint	Joint No.	Length of Joint
01	41.00 (incl. shoe)	31		61		91	
02	41.00	32		62		92	
03		33		63		93	
04		34		64		94	
05		35		65		95	
06		36		66		96	
07		37		67		97	
08		38		68		98	
09		39		69		99	
10		40		70		00	

TOTAL 82. 0

TOTAL

TOTAL

TOTAL

11		41		71		TALLY SUMMARY	
12		42		72			
13		43		73			
14		44		74			
15		45		75			
16		46		76			
17		47		77			
18		48		78			
19		49		79			
20		50		80			

Group No. Ending Length (Forward)

10	82	00
20		
30		
40		
50		
60		
70		
80		
90		
00		

TOTAL

TOTAL

TOTAL

TOTAL 82 00

21		51		81	
22		52		82	
23		53		83	
24		54		84	
25		55		85	
26		56		86	
27		57		87	
28		58		88	
29		59		89	
30		60		90	

TOTAL

TOTAL

TOTAL

Tally By: _____

Checked By: _____

(Note: Include casing shoe and collar in first joint)

REMARKS: All in order.

CASING INFORMATION

Surface Casing
~~Production Casing~~
~~Box~~

906089 032

O.D. 20"

Well Golden Beach Location No. 1 Date 9th April 1967

Joints on Location	Feet on Location	Casing Weight	Grade	Range	Thread	Threads & Couplings	Make	Joints Run	Depth Landed	Feet Run in Well
15	595.4	94	J55	3	LTC	L.8 round	German	12	591 below R.T.	481

Shoe: Make Baker Type Guide shoe 1'10" Length _____

Collars: Make Baker Type Float 2'00" Length _____

Landing Joint (when used) Length -----

Overall Length of Casing String ----- 481

Feet up from K.B. (Subtract) -----

Setting Depth: 591 By Driller below R.T. By Tally 481

Shoe Joint: 39.8 Overall (Subtract)

Float Collar Landed: 515 By Driller By Tally

CENTRALIZERS: - SCRATCHERS: -

Make _____ Make _____

Number _____ Number _____

Positions _____ Positions _____

No. of Joints Welded _____

Remarks All joints had to be welded and strapped due to threads being sub standard
R.T. 112 ft. above guide base.

**B.O.C. OF AUSTRALIA LTD.
CASING RUNNING AND CEMENTING REPORT**

Form B - 2

Surface Casing
~~XXXXXXXXXXXX~~ O.D. 20"
~~XXXXXXXXXXXX~~
Diner

GENERAL

906039 033

Well No. 1 Location Golden Beach Date April 10th 1967

K.B./G.S. Elevation _____ K.B./G.S. Csg. Flange _____ Total Depth (Driller) _____

Hole Size	26"			Casing in Hole	20 x 92 lbs/ft.	
Depth	660			Depth Set	591 KB	

Mud: Type Gel Wt. 9.5 Visc. 50 W.L. _____

B.O.P.'s _____

RUNNING

Power Tongs _____ Torque: Max. _____ Nom. _____ Min. _____

Time Pipe Started 20.30 hrs. 9/4/67 Time on Bottom 01.00 Time Circ. _____

Fill-up Points every 4 stps. Btm. by Casing 591 Ft. up from K.B. 591

Remarks Time involved was due to bad threads.
All joints were welded and strapped.

CEMENTING

Cement Co. Halliburton Operator D. Knackstedt Time on Location Resident

Types & Quantities of Cement Construction 1100 sacks.

Water ahead _____ Bbls. Mix Times: Start 0500 Finish 0615 Slurry Wt. 15.3

Calc. Disp. 120 Bbls. Est. Disp. time 15 Mins. Start 0615 Finish 0630

Max. Pumping Press. _____ Bump. Press. _____ Bumped by _____ No. times bump. _____

Cement Returns: Yes/No. Remarks _____

LANDING

Time Landed 04.45 Date 10/4/67 Init. Wt. of Cem. String (Less Blks.) _____

Wt. Landed in Slips _____ Make of Bowl _____ Nom. Size _____ Series _____

Slip and Seal Assembly _____

Remarks _____

Operator's Representative _____

B.O.C. OF AUSTRALIA LTD
CASING AND TUBING TALLY

Form C-4

906039 034

Page 1 of 1 Joint No. 1 to 12 Date 9th April 1967
WELL: No.1 Golden Beach Size 20 Weight 94 lb. Grade J55 Range 3 Condition Bad
Manufacturer Thyssen Rohrenwerke Threads: On Off No. of Threads 8 round Coupling: ~~XXXX~~ Long
No. of Joints: Received at Well 15 Used 12 Disposition of Joints not used Welshpool

Length of Cut-Off Joint above casing bowl - Disposition landed at sea bed (110' below R.T.)

Joint No.	Length of Joint	Joint No.	Length of Joint	Joint No.	Length of Joint	Joint No.	Length of Joint
01	38 20	31		61		91	
02	37 77	32		62		92	
03	35 80	33		63		93	
04	40 80	34		64		94	
05	38 85	35		65		95	
06	41 25	36		66		96	
07	39 80	37		67		97	
08	38 80	38		68		98	
09	36 90	39		69		99	
10	39 60	40		70		00	

TOTAL 387 77

TOTAL

TOTAL

TOTAL

11	38 15	41		71			
12	40 50	42		72			
13	w/h 14 60	43		73			
14	body	44		74			
15		45		75			
16		46		76			
17		47		77			
18		48		78			
19		49		79			
20		50		80			

TOTAL 93 25

TOTAL

TOTAL

TALLY SUMMARY

Group No. Ending	Length (Forward)
10	387 77
20	93 25
30	
40	
50	
60	
70	
80	
90	
00	
TOTAL	481 02

Tally By:

Checked By:

TOTAL

TOTAL

TOTAL

(Note: Include casing shoe and collar in first joint)

REMARKS: It should be noted that the three joints returned to Welshpool have, as did the rest of the string, threads well below the standard laid down by A.P.I. to manufacturers of such equipment.

906089 035

PLUG-BACK AND ABANDONMENT REPORT

B.O.C. OF AUSTRALIA
PLUG-BACK AND ABANDONMENT REPORT

Well Golden Beach No.1 Location 38°15'33.02" S; 147°25'19.65" E

K.B. Elevation 40'

Hole Size	36"	26"	17½"	12¼"
Depth (G.B.)	82	548	1088	1266

F.T.D. 1266 (G.B.) 1378 (below K.B.)

Fluid in Hole Mud

Casing in Hole	Size	Set At	Top of Cement
Surface Casing	13 3/8"	1009	Sea bed
Prod. String	-	-	-

Plug Back String 4½" F.H.

Service Company Halliburton

Cons. Bd. Approval -

Cons. Bd. Witness -

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5
Date	30.4.67	1.5.67			
Interval - Top	1000	Sea bed			
Bottom	1213	198			
Felt Plug Depth	1000	-			
Formation - Name	Gippsland	Limestone Form.			
Depth					
Caliper Hole Size (Avg.)	12¼"	13 3/8" casing			
Type of Mud	Spersene/ XP20	Spersene/ XP20			
No. of Sacks	200	150			
Additives	nil	nil			
Bbls. of Water Ahead					
Displacement - Bbls. Water					
Bbls. Mud					
Slurry Weight	15.3	15.6			
Mixing Times - Start					
Finish					
Displacing Times - Start					
Finish					
Felt Plug Time	-	-			

Surf. Csg. Cut - Ft. Below Grd. Surf. Plug Plug No.2 Sacks - Date 30.4.67 Yes/No

Casing Salvage: Shot off at - No. of Jts. Recovered -

Remarks: All depths are below guide base.

LITHOLOGICAL DESCRIPTION

906089 037

Depth.	Percentages.						Descriptions	Remarks.
	LST	SST	SAND	SILT	CLAY	COAL		
740 - 750	60				40		<p><u>LIMESTONE</u> white to light calcarenite, slightly quartzose, glauca. brachiopods, slightly calc. all set in a calc. matrix (white) large Bryozoa fragments less common. Forams rare. <u>MARL</u> Appears as light grey clay.</p>	
750 - 760	60				40		<p><u>LIMESTONE</u> calcarenite as before with lamellibranch. corals fragments present.</p>	
760 - 770	30				70		<p>Calcarenite fragments range from very fine to very coarse. coarse fragments both calcite and quartz.</p>	
770 - 780	20				80		<p>Fossil fragments rare. coarse fragments mainly calcite.</p>	
- 790	20				80			
- 800	30				70		<p>all fragments partly glauconitic</p>	
- 810					100		<p>entirely made with microporid fragments.</p>	
- 820	20				80			
- 830	20				80			
- 840	20				80		<p>Fossil fragments are corals, Bryozoa, Lamellibranch.</p>	
- 850	30				70		<p>very glauca. in part. minor clear angular quartz grains.</p>	
- 860	50				50		<p>glauca. + siltite replacing fossil fragments - part.</p>	
- 870	60				40		<p>Fossils more common. Forams present.</p>	
- 880	80				20		<p>Quartz completely absent. Glauca. rare.</p>	
- 890	90				10		<p>Bryozoa limestone. Forams more common.</p>	

PE603416

This is an enclosure indicator page.
The enclosure PE603416 is enclosed within the
container PE906089 at this location in this
document.

The enclosure PE603416 has the following characteristics:

ITEM_BARCODE = PE603416
CONTAINER_BARCODE = PE906089
NAME = GOLDEN BEACH-1 Stratigraphic Log
BASIN = GIPPSLAND
OFFSHORE? = N
DATA_TYPE = WELL_LOG
DATA_SUB_TYPE = HARDCOPY-PAPER
DESCRIPTION = PERMIT: PEP 42
REMARKS = 26-APR-1967
DATE_WRITTEN =
DATE_PROCESSED = B.O.C. of Australia
DATE_RECEIVED =
RECEIVED_FROM =
WELL_NAME = 385.8768
CONTRACTOR =
AUTHOR = 385.8768
ORIGINATOR = xls_jc40
TOP_DEPTH =
BOTTOM_DEPTH =
ROW_CREATED_BY =

(Inserted by DNRE - Vic Govt Mines Dept)

PE603417

This is an enclosure indicator page.
The enclosure PE603417 is enclosed within the
container PE906089 at this location in this
document.

The enclosure PE603417 has the following characteristics:

ITEM_BARCODE = PE603417
CONTAINER_BARCODE = PE906089
NAME = Golden Beach-1 Master Log
BASIN = GIPPSLAND
OFFSHORE? = N
DATA_TYPE = MUD_LOG
DATA_SUB_TYPE = HARDCOPY-PAPER
DESCRIPTION = PERMIT: PEP 42
REMARKS = 02-MAY-1967
DATE_WRITTEN =
DATE_PROCESSED = B.O.C. of Australia
DATE_RECEIVED =
RECEIVED_FROM =
WELL_NAME = 385.8768
CONTRACTOR =
AUTHOR = 385.8768
ORIGINATOR = xls_jc40
TOP_DEPTH =
BOTTOM_DEPTH =
ROW_CREATED_BY =

(Inserted by DNRE - Vic Govt Mines Dept)