

73 Pages
INCLUDES PLATES

FROME-BROKEN HILL COMPANY PTY. LTD.

Report No. 7200-G-77

WELL COMPLETION REPORT

PORT CAMPBELL NO. 2

SOUTHWEST VICTORIA

by

R. L. Wood and J. S. Bain

Melbourne

February, 1961

DO NOT
COPY

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ILLUSTRATIONS

Figure

- 1. Faunal Chart of Lower Cretaceous Section in No. 2 Well

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APPENDIX 9
Geochemistry
(added by DNRE 01/08/00)

BEACH PETROLEUM

NO LIABILITY

(Incorporated in South Australia)

POSTAL ADDRESS:
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4TH FLOOR
685 BURKE ROAD
CAMBERWELL, VICTORIA. 3124
AUSTRALIA

1st September 1983

Mr Fraser
M De
REC'D
14/9/83
RW.

The Minister for Minerals and Energy
Department of Minerals and Energy
Princes Gate East
151 Flinders Street
MELBOURNE Vic 3000

OIL and GAS DIVISION

14 SEP 1983

3 Jul 1983
Attention: The Director - Oil and Gas Division

Dear Sir

Re: Beach Petroleum Source Rock Study - Otway Basin

Now that the results of the source rock analyses have become available they can be passed on to you. Thirty-five samples were collected from five wells. Those wells were:-

Garvoc-1
Ferguson Hill-1
Woolsthorp-1
Ross Creek-1
Port Campbell-2

Further, please find (i) specific gravity measurement
(ii) petrographic description for a basement sample of Moyne Falls Well No. 1.

Yours faithfully
BEACH PETROLEUM NO LIABILITY

DG Langton
DG Langton
EXPLORATION MANAGER

SG:cs

REFERRED TO *OGD*
 FOR COMMENT
 TO NOTE
 FOR REPLY BY.....
 NECESSARY ACTION

[Signature]
O.I.C. CENTRAL REGISTRY
14/9/83

Port Campbell No. 2

K.K. No.	Depth (m)	\bar{R}_V max	Range	N	Exinite Fluorescence (Remarks)
					Belfast Mudstone
18104	1778 Ctgs	0.45	0.36-0.62	19	Sparse sporinite, yellow to orange, rare to sparse cutinite, orange, rare resinite, yellow. (Siltstone>claystone>limestone. D.o.m. abundant, I>E>V. Inertinite abundant, vitrinite and exinite sparse. Abundant iron oxides and pyrite.)
18105	1955 Ctgs	0.53	0.43-0.63	18	Sparse sporinite and rare ?phytoplankton, yellow to orange, rare cutinite, dull orange. (Claystone>limestone. D.o.m. abundant, I>E>V. Inertinite abundant, vitrinite and exinite sparse. Abundant carbonate, ?glauconite and pyrite.)
18106	2138 Ctgs	0.52	0.44-0.64	17	Sparse sporinite, yellow/orange to orange, rare cutinite, orange to dull orange and rare phytoplankton, yellow to orange. (Claystone>>sandstone>limestone. D.o.m. abundant, I>E>or=V. Inertinite abundant, vitrinite and exinite sparse. Abundant carbonate, ?glauconite and pyrite.)
18107	2321 Ctgs	0.58	0.44-0.75	12	Sparse sporinite, yellow/orange to orange, rare cutinite, orange, rare phytoplankton, green/yellow to yellow. (Claystone>sandstone>limestone>coal. Coal rare, vitrite. D.o.m. abundant, I>E>V. Inertinite abundant, exinite sparse, vitrinite rare. Common carbonate. Abundant ?glauconite and pyrite.)
					Eumeralla Formation
18108	2681 Ctgs	0.75	0.61-0.92	12	Sparse sporinite and rare cutinite, orange, rare to sparse phytoplankton, yellow to orange. (Siltstone>claystone>coal. Coal rare, duroclarite. D.o.m. common, I>E>or=V. Inertinite common, vitrinite and exinite sparse. Limestone present. Abundant ?glauconite and pyrite.)

PORT CAMPBELL No. 2

Sample No.	Depth (m)	Total Organic Carbon
18104	1778 Ctgs	1.86
18105	1955 Ctgs	1.32
18106	2138 Ctgs	1.56
18107	2321 Ctgs	1.30
18108	2681 Ctgs	1.08

Date: 1st MARCH 1965

CORE ANALYSIS RESULTS

Notes:- (i) Unless otherwise stated, the porosities and permeabilities were determined on two small plugs (V & H) cut at right angles from the core or sample. Ruska porosimeter and permeameter were used, with ~~mercury~~^{air} at ~~130~~³⁰ p.s.i.g. and dry nitrogen, respectively, as the saturating and flowing media. (ii) Residual oil and water saturations were determined using Sozhlet type apparatus. (iii) Acetone test precipitates and fluorescence of solvent after extraction are recorded as, nil, trace, fair, strong or very strong.

Well or Area	Core or Sample No.	Depth in ft. From:- To:-	Lithology	Effective Porosity in % by Vol.		Absolute Permeability in Millidarcys		Avg. density in gms./cc.		Fluid Saturation in % Pore Space		Acetone Test		Solvent after Extraction		Remarks
				V	H	V	H	Dry Bulk	Apparent Grain	Water	Oil	Colour	Precipitate	Colour	Fluor.	
Port Campbell No. 2	12	7099' 7101'	SHALE			N.D.		3.39*	3.42*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	* Rechecked. Small pieces only.
"	13	7689' 7691'	SANDSTONE	14	14	5	4	2.54	2.94	21	Nil	Trace	Nil	Nil	Nil	
"	14	8315' 8317'	SANDSTONE	10	10	49	80	2.37	2.63	Nil	Trace only	Trace	Strong	Trace	Fair	Fluorescence of core: Some yellow specks.
"	15	8409' 8411'	SHALE WITH COALY MATERIAL	8	3	Nil	Nil	2.43	2.57	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
"	16	8560' 8562'	SHALE		15		N.D.	2.48	2.92	"	"	"	"	"	"	Small broken pieces only.
"	17	8611' 8613'	SANDSTONE, SILTSTONE CARB. BANDS	ND	8	N.D.	1	2.55	2.78	15	Trace only	Pale Yellow	Fair	Trace	Trace	
"	18	8840' 8842'	SILTSTONE	23	21	1	3	2.36	3.02	49	Nil	Nil	Nil	Nil	Nil	

Additional Information:

General File No. 62/399
Well File No. 62/1064

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Date: 1st MARCH 1965

CORE ANALYSIS RESULTS

Notes:- (i) Unless otherwise stated, the porosities and permeabilities were determined on two small plugs (V & H) cut at right angles from the core or sample. Ruska porosimeter and permeameter were used, with ~~mercury~~ ^{air} at 30 p.s.i.g. and dry nitrogen, respectively, as the saturating and flowing media. (ii) Residual oil and water saturations were determined using Sozhet type apparatus. (iii) Acetone test precipitates and fluorescence of solvent after extraction are recorded as, nil, trace, fair, strong or very strong.

Well or Area	Core or Sample No.	Depth in ft. From:- To:-	Lithology	Effective Porosity in % by Vol.		Absolute Permeability in Millidarcys		Avg. density in gms./cc.		Fluid Saturation in % Pore Space		Acetone Test		Solvent after Extraction		Remarks
				V	H	V	H	Dry Bulk	Apparent Grain	Water	Oil	Colour	Precipitate	Colour	Fluor.	
Port Campbell No. 2	CORES NOS. 1 to 4. NO SAMPLES.			WELL NOT SUBSIDISED ABOVE 7,500 FEET.												
"	5	7885' 7887'	SILTSTONE	18	19	Nil	Nil	2.60	3.19	23	Nil	Nil	Nil	Nil	Trace	
"	6	7910' 7913'	SANDSTONE	20	20	"	"	2.52	3.13	15	"	"	"	"	"	
"	7	7919' 7921'	SANDSTONE & SILTSTONE	17	16	"	"	2.58	3.09	16	"	"	"	"	"	
"	8	8096' 8098'	SILTSTONE & CONGLOMERATE	7	6	4*	Nil	2.53	2.71	38	Trace only	Yellow	Trace	"	"	* Fractures obvious
"	9	8178' 8180'	SANDSTONE	9	8	1	11	2.44	2.67	12	Trace only	Yellow	Fair	"	"	
"	10	8306' 8309'	SANDSTONE	11	9	79	80	2.37	2.64	Nil	Nil	Nil	Nil	"	Nil	
"	11	8343' 8346'	SANDSTONE WITH COALY MATERIAL	7	6	9	12	2.47	2.64	9	5*	Yellow	Very strong	Deep Orange Brown	Very strong	* Believed to be derived from coaly material.

Additional Information: Core No. 11:- Oil extract immobile, dark brownish-black. Fluorescence very dark yellowish-brown. Rare orange specks under U.V. light in freshly broken core.

General File No. 62/399
Well File No. 62/1064

7/2/65