

SOUTH AUSTRALIA
DEPARTMENT OF MINES AND ENERGY



OPEN FILE ENVELOPE NO. 8678

PEL 8

LUCINDALE 1

TEST REPORTS

Submitted by

Esso Exploration and Production Australia Inc.

1970

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ENVELOPE 8678

TENEMENT: PEL 8

TENEMENT HOLDER: Esso Exploration and Production Australia Inc., General Exploration Company of Australia Pty Ltd, Santos Ltd, Alliance Oil Development Australia NL, Beach Petroleum NL

CONTENTS

REPORT: BMP Petroleum Technology Laboratory, 1970. Core analysis results (10 November, 1970).

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END OF CONTENTS**RELATED REPORTS:**

See also Envelopes 1204 (WCR), 5876, 6758 and 8605 for additional data.

CORE ANALYSIS RESULTS

NOTE: (i) Unless otherwise stated, porosities and permeabilities were determined on two plugs (V&H) cut vertically and horizontally to the axis of the core. Ruska porosimeter and permeameter were used with air and dry nitrogen as the saturating and flowing media respectively. (ii) Oil and water saturations were determined using Soxhlet type apparatus. (iii) Acetone test precipitates are recorded as Neg., Trace, Fair, Strong or Very Strong.

WELL NAME AND NO. Lucindale No. 1

DATE ANALYSIS COMPLETED November 10, 1970

Core No.	Sample Depth		Lithology	Average Effective Porosity two plugs (% Bulk Vol.)	Absolute Permeability (Millidarcy)		Average Density (gm/cc.)		Fluid Saturation (% pore space)		Core Water Salinity (p.p.m. NaCl)	Acetone Test	Fluorescence of freshly broken core
	From	To			V	H	Dry Bulk	Apparent Grain	Water	Oil			
1	2437'7"	2438'3"	Sst:m.gr. sl. arg.	26	138	642	1.99	2.69	6.2	nil	n.d.	neg.	very dull even yellow spotted
1	2449'1"	2449'6"	Sst; arg	32	1.3	23	2.03	2.97	54	nil	n.d.	neg.	nil
1	2457'6"	2458'3"	Sst; v.c.gr. calc	12	2.8	5.2	2.35	2.66	0.66	nil	n.d.	neg.	nil
2	2756'2"	2756'10"	Sst; v.f.gr. slty carb	28	23	38	1.69	2.65	46	nil	n.d.	neg.	nil
2	2764'0"	2764'7"	Sst; m.gr. to c.gr.	29	209	649	1.87	2.65	43	nil	n.d.	trace	nil
2	2781'11"	2782'4"	Sst; f.gr. slty	31	160	209	1.82	2.66	45	nil	n.d.	neg.	nil
3	3184'4"	3185'0"	Breccia, arg.	11	n.d.	n.d.	2.42	2.71	0.66	nil	n.d.	neg.	Dull even blue

Remarks: -

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