

CORE ANALYSIS RESULTS

BUREAU OF MINERAL RESOURCES



M0970065



DEPARTMENT OF NATIONAL DEVELOPMENT

BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

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112 JUL 1967

Chairman,  
Exoil (N.T.) Pty. Ltd.,  
Box 281D, G.P.O.,  
BRISBANE. QLD.

110 JUL 1967

Dear Sir,

EAST MERREENIE NO. 4

Enclosed are, for your information, the results of core analysis determinations on samples of cores Nos. 1,2,3 and 4 from the above well.

Yours faithfully,

(L.C. NOAKES)  
Assistant Director  
(Mineral Resources)

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CORE ANALYSIS RESULTS

NOTE:- (i) Unless otherwise stated, the porosities and permeabilities were determined on two small plugs (V&H) cut at right angles from the core. Ruska porosimeter and permeameter were used with 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 soxhlet type apparatus. (iii) Acetone test precipitates are recorded as nil, trace, fair, strong or very strong.

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WELL NAME AND NO. EAST MEREMIE NO. 4

DATE OF TEST. 28/6/67

Core No.	Depth From:- To:-	Lithology	Average Effective Porosity from two plugs (% Bulk Vol.)	Absolute Permeability (Millidarcy)		Average Density (gm/cc.)		Fluid Saturation (% of pore space)		Acetone Test	Core Water Salinity (P.P.M. NaCl)	Solubility in 15% HCl (% Bulk vol.)	Fluorescence of freshly broken core.
				V	H	Dry Bulk	Apparent Grain	Water	Oil				
1	4196	SANDSTONE, BITUMINOUS, PYRITIC	5.3	1.6	0.56	2.51	2.67	0	13.4	TRACE	N.D.	N.D.	TRACE SPOTTED GOLDEN
1	4201	AS ABOVE, SILTY, LAMINATED SANDSTONE	7.5	0.55	0.57	2.48	2.67	22	5.9	TRACE	"	"	"
2	4608	SANDSTONE, PYRITIC	8.4	0.42	0.63	2.33	2.64	30	9.1	FAIR	"	"	GOOD EVEN BLUE-WHITE
2	4613	SANDSTONE, PYRITIC	14.4	36	52	2.29	2.68	21	19.9	STRONG	"	"	AS ABOVE
2	4618	AS ABOVE	13.5	41	46	2.32	2.68	10	13.9	STRONG	"	"	AS ABOVE
3	4625	SANDSTONE	10.5	10	14	2.36	2.64	13	16.6	STRONG	"	"	AS ABOVE
3	4630	SANDSTONE	8.0	10	17	2.45	2.67	5	10.7	FAIR	"	"	AS ABOVE

Remarks:-

Core samples were received in sealed cans

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

CORE ANALYSIS RESULTS

NOTE:- (i) Unless otherwise stated, the porosities and permeabilities were determined on two small plugs (VAH) cut at right angles from the core. Ruska porosimeter and permeameter were used with 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 soxhlet type apparatus. (iii) Acetone test precipitates are recorded as nil, trace, fair, strong or very strong.

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WELL NAME AND NO. EAST MERRENTIE NO. 4 DATE OF TEST. 28/6/67

Core No.	Depth From:- To:-	Lithology	Average Effective Porosity from two plugs (% Bulk Vol.)	Absolute Permeability (mDarcy)		Average Density (gm./cc.)		Fluid Saturation (% of pore space)		Acetone Test	Core Water Salinity (p.p.m. NaCl)	Solubility in 15% HCl (% Bulk vol.)	Fluorescence of freshly broken core.
				V	H	Dry Bulk	Apparent Grain	Water	Oil				
3	4635	SANDSTONE PINK, SPOTTED	8.6	1.2	6.3	2.45	2.68	15	13.8	FAIR	N.D	N.D	SLIGHTLY SPOTTED BLUE-WHITE
4	4702	SANDSTONE RED, LAMINATED	9.0	0.46	1.1	2.47	2.70	13	5.5	TRACE	"	"	FAIR BLUE-WHITE
4	4710	SANDSTONE, RED, SPOTTED	8.0	13	23	2.45	2.66	8	13.2	FAIR	"	"	GOOD BLUE-WHITE
4	4712	SANDSTONE	10.2	22	29	2.40	2.67	12	14.7	STRONG	"	"	FAIR EVEN BLUE-WHITE
4	4718	AS ABOVE	6.0	0.14	0.22	2.50	2.67	24	5.0	NIL	"	"	TRACE SPOTTED
4	4731	AS ABOVE	7.7	0.40	0.55	2.45	2.66	23	8.8	TRACE	"	"	IRREGULAR BLUE-WHITE
4	4742	SANDSTONE	11.3	32	52	2.37	2.67	11	14.4	STRONG	"	"	Good even BLUE-WHITE

Remarks:- Core samples were received in sealed cans

General file No. 62/399.  
Well file No.

