



Core Analysis Results  
for Casterton-1  
(W488)



Date: 17th June 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 <sup>air</sup>mercury at 750 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.	
Casterton No. 1	1	2021'0" 2021'4"	Siltstone and claystone	32	32	Nil	Nil	2.04	3.00	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
"	2	2425'0" 2425'4"	As above	N.D.	33	H.D.	Nil	2.04	3.05	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
"	3	3142' 3152'	INSUFFICIENT SAMPLE FOR ANALYSIS													
"	4	3599'0" 3599'4"	Sandstone and grit	25	21	Nil	3	2.25	2.93	56	Nil	Yellow	Nil	Pale Yellow	Fair	
"	5	4189' 4194'	CORE RECOVERY NIL													
"	6	4194' 4200'	INSUFFICIENT SAMPLE FOR ANALYSIS													
"	7	4503'8" 4504'0"	Shale	N.D.	20	N.D.	Nil	2.33	2.92	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
"	8	4509'8" 4510'0"	Shale	22	20	Nil	Nil	2.36	2.98	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	

Additional Information:

General File No. 62/399  
Well File No. 65/4135

Petroleum Technology Laboratory, Bureau of Mineral Resources, Geology and Geophysics, Canberra.

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				V	H	V	H	Dry Bulk	APPARATUS Grain	Water	Oil	Colour	Precipitate	Colour	Fluor.	
Casterton No. 1	9	4912'8" 4913'0"	Sandstone	21	20	1	1	2.18	2.76	24	Nil	Trace	Nil	Nil	Fair	
"	10	5084' 5090'	Sandstone and grit, calcareous	14	11	1	N.D.	2.37	2.71	4	Nil	Trace	Nil	Nil	Fair	
"	11	5272'8" 5273'0"	Sandstone	18	22	Nil	4.4	2.19	2.73	15	Nil	Nil	Nil	Nil	Trace	
"	12	5612'0" 5612'5"	Shale	N.D.	13	N.D.	N.D.	2.42	2.76	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
"	13	5960'8" 5961'0"	Sandstone	N.D.	17	N.D.	665*	2.23	2.67	6	Nil	Nil	Nil	Nil	Trace	Uncemented fracture through plug.
"	14	6398'8" 6399'0"	Sandstone	N.D.	11	N.D.	51*	2.41	2.71	Nil	Nil	Nil	Nil	Nil	Trace	Fine fracture through plug
"	15	6763'8" 6764'0"	Shale	6	N.D.	Nil	N.D.	2.58	2.74	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
"	16	6853'8" 6854'0"	Sandstone	9	9	Nil	Nil	2.49	2.73	14	Nil	Nil	Nil	Nil	Trace	

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				V	H	V	H	Dry Bulk	Apparent Grain	Water	Oil	Colour	Precipitate	Colour	Fluor.	
Casterton No. 1	17	7257'8" 7258'0"	Sandstone and grit	14	15	1	2	2.35	2.75	7	Nil	Nil	Nil	Nil	Trace.	
"	18	7389'8" 7390'0"	Shale	5	5	Nil	Nil	2.71	2.85	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
"	19	7741'8" 7742'0"	Siltstone and sandstone	9	8	Nil	Nil	2.59	2.83	13	Nil	Nil	Nil	Trace	Trace	
"	20	7858' 7862'	Shale	N.D.	6	N.D.	1	2.79	2.97*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	*Heavy mineral grain inclusions observed.
"	21	7897'8" 7898'0"	Shale	7	9	Nil	Nil	2.60	2.82	"	"	"	"	"	"	
"	22	7955'8" 7956'0"	Shale with coal bands	3	3	Nil	Nil	2.57	2.65	"	"	"	"	"	"	
"	23	8031'8" 8032'0"	Shale	7			N.D.	2.63	2.83	"	"	"	"	"	"	Pyrites obvious
"	24	8178'8" 8179'0"	Shale	4			N.D.	2.70	2.81	"	"	"	"	"	"	As above

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