



WCA
CURDIE-1

W7AS

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BEACH PETROLEUM N.L.

CURDIE No.1

W768

27 SEP 1982

WELL COMPLETION REPORT

PART A - (TEXT & APPENDICES)

OIL and GAS DIVISION

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A P P E N D I X 8

S O U R C E R O C K S T U D I E S

R E S U L T

BY : A. C. COOK

CURDIE No. 1

K.K. No.	Depth (m)	\bar{R}_V max	Range	Exinite Fluorescence N	(Remarks)
BELFAST MUDSTONE 1893m					
15488	1895-1915 Ctgs	0.49	0.37-0.65	20	Rare sporinite, cutinite, dinoflagellates and resinite, yellow orange to orange. (Siltstone with some carbonate and rare coal. D.o.m. sparse tending common, I>E=V. Vitrinite rare. Pyrite sparse.)
15489	1990-2010 Ctgs	0.49	0.38-0.56	7	Rare sporinite and dinoflagellates, yellow to orange. (Siltstone, calcareous microfossils, ?glauconite pellets. D.o.m. sparse, I>E>V. Vitrinite rare. Pyrite sparse to common.)
15490	2090-2110 Ctgs	0.60	0.59-0.60	2	Rare leptodetinite, yellow to orange. (Claystone and mudstone, d.o.m. sparse, I>E>V. Inertinite sparse, vitrinite very rare.)
15491	2190-2210 Ctgs	0.49	0.48-0.50	2	Rare dinoflagellates, greenish yellow to orange. (Mudstone, d.o.m. sparse to common, I>E>V. Inertinite sparse to common, vitrinite very rare. Pyritized foraminifers present. Sparry calcite is present, some of this has bright orange fluorescence.)
15492	2290-2310 Ctgs	0.82 0.52 1.04	0.77-0.84 0.45-0.58 1.02-1.05	4 2 2	Rare dinoflagellates, yellow to orange, ?sporinite orange. (Siltstone, d.o.m. common, I>E>V. Inertinite common. Vitrinite population poorly defined. The modes with higher reflectance appear to be oxidized or heat altered. The lowest of the modes is most likely to be representative of the horizon sampled. Pyrite common.)
FLAXMAN UNIT A. 2327m					
15493	2330-2350 Ctgs	0.57	0.50-0.63	2	Rare sporinite cutinite and dinoflagellates, yellow orange to orange. (Mudstone, some sandy, rare claystone. D.o.m. sparse, I>E>V, inertinite sparse, vitrinite very rare. Pyrite sparse.)
15494	2390-2410 Ctgs	0.57	0.52-0.62	2	Rare cutinite yellow to orange and dinoflagellates, orange. (Siltstone>claystone, d.o.m. I>E>V. Inertinite rare to sparse, vitrinite very rare. Pyrite rare to sparse)
FLAXMAN UNIT B. 2417m					
15495	2430-2450 Ctgs	0.57	0.47-0.66	19	Rare sporinite, dinoflagellates, and resinite, orange, cutinite, yellow to orange. (Siltstone>sandstone, d.o.m., sparse I>V>E. Inertinite sparse, vitrinite rare. Pyrite sparse, carbonates present, possibly siderite.)
WARRE FORMATION 2455m					
15496	2500-2510 Ctgs	0.55	0.43-0.72	29	Rare sporinite and cutinite, orange. (Siltstone>sandstone, d.o.m., sparse, I>V>E. Inertinite sparse, vitrinite rare to sparse. Pyrite sparse. Micrinite present in some of the band vitrinite.)
15497	2530-2550 Ctgs	0.56	0.44-0.72	20	Rare sporinite and cutinite, yellow to dull orange. ?Dinoflagellates also present, yellow orange. (Siltstone=sandstone>claystone, d.o.m., sparse, I>V>E. Inertinite sparse, vitrinite rare. Rare large nodules of pyrite.)

CURDIE No. 1

K.K. No.	Depth (m)	\bar{R}_V max	Range	Exinite Fluorescence N	(Remarks)
EUMERALLA FORMATION 2558m					
15498	2560-2570 Ctgs	0.55	0.44-0.66	11	Rare sporinite and cutinite, orange to dull orange. (Claystone>slitstone>sandstone, d.o.m., rare to sparse, I>V>>E. Inertinite, rare, vitrinite rare.)
15499	2570-2580 Ctgs	0.65	0.49-0.74	12	Rare sporinite and cutinite, yellow orange to orange. (Slitstone>claystone, d.o.m. rare, I>V>E. Inertinite rare, vitrinite rare. Pyrite rare to very abundant, common overall.)
15500	2590-2600 Ctgs	0.70	0.49-0.86	11	Rare sporinite and cutinite, yellow orange to orange. (Slitstone>sandstone>claystone, d.o.m. rare to sparse, I>E=V. Inertinite rare, vitrinite rare. The large range in the reflectance reported for the vitrinite may be due to a number of factors. Some of the vitrinite has been oxidized and is transitional to inertinite, whereas some may contain suberinite-like tissue which cannot be resolved with an optical microscope. Additionally some contamination from cavings may be present. The opposite nature of some of these effects suggests that the mean as reported is likely to be close to that of the first generation vitrinite from this horizon.)

Organic Carbon Data

Sample No.	Depth	Organic carbon %, corrected for carbonate
		Curdie No. 1.
15488	1895-1915	1.65
15489	1990-2010	1.78
15490	2090-2110	1.90
15491	2190-2210	1.91
15492	2290-2310	1.84
15493	2330-2350	1.47
15494	2390-2410	1.26
15495	2430-2450	1.10
15496	2500-2510	1.82
15497	2530-2550	2.05
15498	2560-2570	1.19
15499	2570-2580	1.35
15500	2590-2600	1.06