

DEPT. NAT. RES & ENV



PE907714

Geochem Data for....

Flaxmans-1

(W466)

Geochem
Cover file

Otway Basin
FLAXMANS 1
FLX-1
38 33 s. lat. 142 45 e. long.

#	M	FT	XI-C	XO-C	XN	XH	S1	S2	TMAX	PI	HI	GP
1	3422	11225	0.5	0.61	---	---	0.59	0.5	471	0.52	89	1.1

Pyrolysis run with CDS Pyroprobe and original interface: TMAX inaccurate.

M is sample depth in meters.

FT is sample depth in feet.

XI-C is inorganic carbon as % calcium carbonate in rock.

XO-C is organic carbon as % carbon in rock.

XN is % nitrogen in rock.

XH is % hydrogen in rock.

S1 is pyrolysis free-hydrocarbon signal (mg hydrocarbons/g rock).

S2 is pyrolysis kerogen signal (mg S2 hydrocarbons/g rock).

PI is production index $[S1/(S1+S2)]$.

TMAX is temperature at which S2 signal is maximum (deg C).

HI is hydrogen index (mg hydrocarbons/g O-C).

GP is genetic potential (kg hydrocarbons/ton rock) (S1+S2).

'bdl' means 'below detection limit'; '---' means 'not determined'.

'ndm' means 'no definitive maximum'.

M. Dani

RECD
16.5.85
KGS

Geology Department
Melbourne University
Parkville VIC. 3052
14th May, 1985

Mr Ian Fraser
Department of Minerals and Energy
151 Flinders Street
Melbourne

Dear Sir,

Re : Core samples from petroleum wells

On Monday 13th May the following samples were collected from the Port Melbourne Core Laboratory.

Well	Core	Depth (feet)
Flaxmans No 1	16	5950-5952
	17	6380-6385
Port Campbell No 1	1	421-439
	2	900-918
	3	1067-1077
	4	1457-1475
	5	1475-1493
	17	4758-4760
	18	4866-4868
	19	5021-5022
Port Campbell No 2	20	5026-5031
	4	7403-7409
	5	7885-7897
	12	7093-7103
	13	7683-7694

I would like to take this opportunity to thank Mr Jack Devon for his assistance in obtaining these samples.

Yours sincerely
David B. Waghorn
David B. Waghorn

cc Mr Jack Devon

FLAXMANS No. 1

OIL and GAS DIVISION

15 JUL 1982

K.K. No.	Depth (m)	\bar{R}_V max	Range	N	Exinite Fluorescence (Remarks)
					<p>WANGERRIP GROUP SHERBROOK GROUP TIMBOON/CURDIES 1071m</p>
15352	1258 Core	0.45	0.39-0.53	3	Rare ?dinoflagellates yellow to orange, and cutinite and sporinite, orange to dull orange. (Mudstone, d.o.m. common, I>E>V. Inertinite common, vitrinite rare.)
					BELFAST MUDSTONE 1698m
15353	1815 Core	0.52	0.45-0.61	23	Rare dinoflagellates and sporinite yellow to orange. (Mudstone, d.o.m. sparse I>E>?V. Inertinite sparse, vitrinite identification uncertain and material categorised to vitrinite, is rare. Pyrite abundant.)
					FLAXMAN FORMATION 1984m
15354	2095 Core	0.51	0.40-0.62	7	Rare dinoflagellates and sporinite, yellow to orange. (Siltstone and sandstone with sparse d.o.m., I>V>E. Vitrinite and inertinite locally common as large phytoclasts, but inertinite sparse and vitrinite rare overall.)
					WAARRE FORMATION 2096m
15355	2105 Core	0.43	0.26-0.55	9	Rare cutinite and sporinite, orange. (Sandstone with rare large phytoclasts of inertinite and vitrinite. D.o.m. rare, I>V. Some of the vitrinite is derived from wood with very dark "resinous" cell-fillings. Rare pyrite and some detrital grains of iron oxide minerals present.)
					OTWAY GROUP 2165m
15356	2199 Core	0.51	0.40-0.59	20	Exinite sparse to common, sporinite and cutinite, orange, fluorinite, rare, green. (Siltstone, d.o.m. abundant, I>E>V. I common to abundant, vitrinite rare to sparse. Pyrite rare. Most phytoclasts small, some cutinite in large shreds. A grain of reworked clarite is present, R_V 0.67%.)
15357	3513 Core	0.92	0.79-1.02	14	No fluorescing exinite. (Siltstone, d.o.m. common, I>V, no E. Massive I is present in association with vitrinite and the vitrinite population is unusually well-defined as compared with most other samples from the deeper part of the Otway Group. Much of the vitrinite measured appears to be part of a root.)
					T.D. 3514+m

FLAXMANS-1

DEPTH (metres)	ANALYST	SAMPLE TYPE	VITRINITE REFLECTANCE		NO. READINGS
			MEAN	RANGE	
1258	PA	CC	0.45	0.39-0.53	3
1519	CO		0.50	0.39-0.60	4
1815	PA	CC	0.52	0.45-0.61	3
1945	CO		0.42	0.32-0.51	2
2095	PA	CC	0.51	0.40-0.62	7
2105	PA	CC	0.43	0.26-0.55	9
2199	PA	CC	0.51	0.40-0.59	20
2200	CS		0.58	0.00-0.00	30
2397	CO		0.65	0.54-0.80	7
2709	CO		0.70	0.68-0.71	2
2782	CS		0.62	0.00-0.00	30
3295	CS		0.84	0.00-0.00	16
3513	PA	CC	0.92	0.79-1.02	14
3513	CO		1.17	1.00-1.25	10

Contractor: Palteca
Author : Cook