



PE905684

W468OTWAY BASIN  
SOURCE ROCK

PETROLEUM DIVISION

22 AUG 1991

TABLE 1

## ROCK-EVAL PYROLYSIS DATA (one run)

WELLNAME = ANGLESEA 1

DATE OF JOB = JULY 1989

DEPTH (m)	TMAX	S1	S2	S3	S1+S2	S2/S3	PI	PC	TOC	HI	OI
490.0-510.0	422	3.30	96.50	26.40	99.80	3.66	0.03	8.28	50.00	193	52
1778.0-1798.0	421	0.18	2.60	0.62	2.78	4.19	0.06	0.23	1.05	247	59
1931.0-1951.0	434	0.28	13.55	0.58	13.83	23.36	0.02	1.15	5.05	268	11
2557.0-2567.0	433	0.07	0.54	0.55	0.61	0.98	0.11	0.05	0.88	61	62
4011.0-4021.0	447	0.08	0.33	0.28	0.41	1.18	0.20	0.03	0.97	34	28
4819.0-4829.0	nd	nd	nd	nd	nd	nd	nd	nd	0.43	nd	nd
5766.0-5776.0	476	0.09	0.48	1.78	0.57	0.27	0.16	0.05	1.40	34	127
6237.0-6247.0	481	0.05	0.23	1.53	0.28	0.15	0.18	0.02	0.84	27	182
6723.0-6727.0	490	0.15	0.47	1.18	0.62	0.40	0.24	0.05	1.72	27	68
7544.0-7550.0	366	0.03	0.07	0.19	0.10	0.37	0.30	0.01	0.93	7	20
7857.0-7867.0	334	0.03	0.09	0.67	0.12	0.13	0.25	0.01	0.62	14	108
8690.0-8707.0	nd	nd	nd	nd	nd	nd	nd	nd	0.44	nd	nd
9156.0-9176.0	532	0.04	0.29	0.19	0.33	1.53	0.12	0.03	4.20	6	4
9641.0-9656.0	468	0.01	0.06	0.04	0.07	1.50	0.14	0.01	1.42	4	2
10045.-10065.	273	0.04	0.11	0.08	0.15	1.38	0.27	0.01	0.85	12	9

ANGLESEA-1

TMAX = Max. temperature S2  
 S1+S2 = Potential yield  
 PC = Pyrolysable carbon  
 OI = Oxygen Index

S1 = Volatile hydrocarbons (HC)  
 S3 = Organic carbon dioxide  
 TOC = Total organic carbon  
 nd = no data

S2 = HC generating potential  
 PI = Production index  
 HI = Hydrogen index

ANGLESEA NO. 1

A1/1

K.K. No.	Depth (ft)	$\bar{R}_v$ max	Range	N	Description Including Liptinite (Exinite) Fluorescence
v1025	490-510 Core 1	0.34	0.26-0.41	27	Abundant sporinite, greenish yellow to orange, abundant resinite, greenish yellow to dull yellow, common suberinite, dull orange to weak brown. (Coal, V>E>I. Clarite>vitrite>duroclarite. Approximate composition; Vitrinite - 80.0% Exinite - 6.0% Inertinite - 4.0% Mineral matter - 10.0% Total 100.0% Micrinite abundant in most coals. Sclerotinite common. Iron oxide rare. Pyrite sparse.)
v1026	789-809 Core 2	0.34	0.28-0.46	26	Abundant cutinite, greenish yellow to dull yellow, sparse sporinite, greenish yellow to yellow, sparse resinite, greenish yellow, rare <u>Botryococcus</u> related ?telalginite, bright yellow. (Sandstone>siltstone>shaly coal>coal. Coal sparse, V. Vitrite. Shaly coal major, V>I>E. Clarite>duroclarite. Dom major, V>E>I. Vitrite major, exinite abundant, inertinite common. Micrinite abundant in some vitrinite. Coalified leaf tissues present. Iron oxide sparse to common. Pyrite rare.)
v1027	1090-1110 Core 3	0.42	0.36-0.51	26	Abundant sporinite, greenish yellow to yellow, common cutinite, greenish yellow to orange, sparse resinite, greenish yellow. (Shaly coal>coal. Coal abundant, V>E. Vitrite>clarite. Shaly coal dominant, V>E>I. Clarite>vitrite>duroclarite. Micrinite abundant in some vitrinite. Coalified leaf tissue present. Iron oxide rare. Pyrite sparse.)
v1028	1778-1798 Core 6	0.42	0.33-0.51	28	Common sporinite and liptodetrinite, yellow to orange, sparse cutinite, orange, rare suberinite, weak brown. (Claystone>siltstone>sandstone>coal. Coal common to abundant, V>>E. Vitrite>clarite. Dom abundant, V>E>I. Vitrinite and exinite common, inertinite sparse. Iron oxide sparse. Pyrite major.)
v1029	1931-1951 Core 7	0.76	0.60-0.88	28	Common sporinite orange to dull orange, sparse cutinite, dull orange. (Calcareous claystone>coal. Coal sparse, V>>I. Vitrite. Dom abundant, V>I>E. Vitrinite and exinite common, inertinite sparse. Inertinite mainly consists on inertodetrinite. Vitrinite mainly occurs as thin bands. Micrinite abundant in some vitrinite. Vitrinite bireflectance is low to moderate and ranges from 0.03% to 0.09%. Iron oxide rare. Pyrite sparse.)

## ANGLESEA NO. 1

A1/2

K.K. No.	Depth (ft)	$\bar{R}_V$ max	Range	N	Description Including Liptinite (Exinite) Fluorescence
v1030	2557- 2567 Core 10	0.80	0.70-0.98	26	Sparse sporinite orange to dull orange, rare cutinite dull orange. (Claystone>siltstone. Dom abundant, I>V>E. Inertinite common, vitrinite and exinite sparse. Diffuse humic organic matter common. Iron oxide sparse to common. Pyrite sparse.)
v1031	3158- 3168 Core 12	0.81	0.71-0.96	26	Sparse sporinite, dull orange to weak brown. (Calcareous siltstone>coal>carbonate. Coal major, V>>I. Vitrite. Dom common, V>I>E. Vitrinite common, inertinite and exinite sparse. Weak brown fluorescence from some vitrinite. Micrinite abundant in some vitrinite. Iron oxide rare. Pyrite sparse.)
v1032	4011- 4021 Core 16	0.96	0.84-1.15	6	Exinite absent/non fluorescing. (Claystone>siltstone>coal. Coal rare, V. Vitrite. Dom abundant, I>V. Inertinite abundant, vitrinite rare, exinite absent.
	$\bar{R}_I$	1.70	1.30-2.40	25	Diffuse humic organic matter common. Iron oxide rare. Pyrite sparse.)
v1033	4819- 4829 Core 19	1.12	0.98-1.28	12	Exinite absent absent/non fluorescing. (Calcareous siltstone. Dom abundant, I>V. Inertinite abundant, vitrinite sparse, exinite absent. Diffuse humic organic matter common. Iron oxide rare. Pyrite sparse.)
v1034	5766- 5776 Core 22	1.35	1.14-1.48	8	Exinite absent/non fluorescing. (Calcareous siltstone. Dom abundant, I>V. Inertinite abundant, vitrinite rare, exinite absent. Diffuse humic organic matter abundant. Mineral matter fluorescence low. Iron oxide rare. Pyrite sparse.)
v1035	6237- 6247 Core 23	-	-	-	Exinite absent/non fluorescing. (Siltstone. Dom abundant, I. Inertinite abundant, vitrinite and exinite absent. Diffuse humic organic matter abundant.
	$\bar{R}_I$	2.14	1.60-2.60	25	Inertinite mainly consists of inertodetrinite. Mineral matter fluorescence low. Iron oxide rare. Pyrite sparse. Marcasite rare.)
v1036	6723- 6727 Core 24	1.81	1.68-1.91	5	Exinite absent/non fluorescing. (Calcareous claystone>carbonate. Dom common, I>V. Inertinite common, vitrinite rare, exinite absent. Diffuse humic organic matter common. Dom mainly consists of inertodetrinite. Mineral matter fluorescence low. Iron oxide rare. Pyrite sparse.)
	$\bar{R}_I$	2.22	1.84-2.94	20	

K.K. No.	Depth (ft)	$\bar{R}_V$ max	Range	N	Description Including Liptinite (Exinite) Fluorescence
v1037	7544-7550	2.41	2.26-2.63	7	Exinite absent/non fluorescing. (Siltstone. Dom abundant, I>V. Inertinite abundant, vitrinite rare, exinite absent. Diffuse humic organic matter common.
	Core 27	$\bar{R}_I$ 2.45	2.04-3.10	25	Vitrinite bireflectance moderate. Dom consists mainly of fine inertodetrinite. Iron oxide rare. Pyrite sparse.)
v1038	7857-7867	2.45	2.40-2.52	3	Exinite absent/non fluorescing. (Siltstone. Dom abundant, I>V. Inertinite abundant, vitrinite rare, exinite absent. Diffuse humic organic matter common.
	Core 28	$\bar{R}_I$ 2.74	2.14-4.52	25	Dom mainly consists of inertodetrinite. Bireflectance about 0.45% for vitrinite. Mineral matter fluorescence low. Iron oxide rare. Pyrite sparse.)
v1039	8690-8707	2.48 <sup>1</sup>	2.26-2.73	22	Exinite absent/non fluorescing. (Carbonate. Dom common, V>I. Vitrinite and inertinite common, exinite absent. Diffuse humic organic matter sparse to common.
	Core 30	7.25 <sup>2</sup>	-	1	Vitrinite bireflectance moderate to strong and ranges from 0.18% to 0.70%. Rare ?reworked meta anthracite with $\bar{R}_V$ max = 7.25% and bireflectance = 5.59%. Mineral matter fluorescence weak. Iron oxide rare. Pyrite sparse.)
	1 FGV 2 ? Reworked meta-anthracite				
v1040	9640-9656	3.23	2.90-3.57	27	Exinite absent/non fluorescing. (Silty claystone. Dom major, V>I. Vitrinite major, inertinite common, exinite absent. Diffuse humic organic matter abundant. Vitrinite mainly occurs as thin bands. Vitrinite bireflectance moderate to strong and ranges from 0.51% to 1.54%. Mineral matter fluorescence very weak to absent. Iron oxide rare. Pyrite sparse.)
v1041	10045-10065	3.37	2.99-3.77	26	Exinite absent/non fluorescing. (Silty claystone. Dom common, v>I. Vitrinite and inertinite common, exinite absent. Diffuse humic organic matter abundant. Vitrinite bireflectance moderate to strong and ranges from 0.45% to 1.32%. Mineral matter fluorescence very weak to absent. Iron oxide rare. Pyrite sparse. Marcasite rare.)
	Core 33				

