

1984/66. Petrographic analysis of the Duncan Seam, Duncan Colliery,
Fingal

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A 300 mm x 200 mm channel sample was collected from the Duncan Colliery on 21 July 1983. Petrographic analyses of the coal plys were made by SGS, Sydney.

Location:	No. 1 Working Section, near Belt Road
AMG grid co-ordinates:	approximately 585 370 mE 5 387 150 mN
Depth of cover:	approximately 220 m
RL of seam:	430 m above sea level
Seam thickness:	1.60 m
Roof:	lithic sandstone
Floor:	grey mudstone

The channel sample was collected close to where a channel sample had been previously collected in April 1983. Plys of the previous sample were subjected to proximate analysis and washing tests. Ultimate and maceral analyses were made on the seam composite, with ash analysis and ash fusion temperatures determined from the coal ash. These results are given in Bacon (1983).

REFERENCE

BACON, C.A. 1983. Analysis of coal from the Duncan Seam, Duncan Colliery, Fingal. *Unpubl.Rep.Dep.Mines Tasm.* 1983/36.

[5 October 1984]

Table 1. SEAM DESCRIPTION

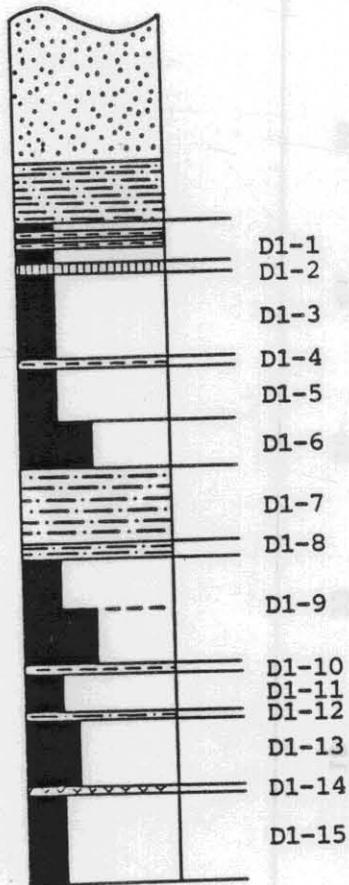
Sample	Thickness (m)	Cumulative thickness (m)	Description
			sandstone roof
19	0.070	0.070	dull coal
18	0.001	0.071	clay with many leaf fossils
17	0.109	0.180	dull coal, 10% bright bands
16	0.020	0.200	brown tuff (Miner's roof)
15	0.060	0.260	dull coal, 5% bright bands
14	0.005	0.265	sandy claystone
13	0.305	0.570	dull coal, 10% bright bands
	0.010	0.580	sandy mudstone
	0.170	0.750	dull coal, 5-10% bright bands
	0.002	0.752	shaly mudstone
	0.028	0.780	dull coal, 5-10% bright bands
	0.010	0.790	claystone, beige
	0.120	0.910	dull coal, 10% bright bands
6	0.01	0.92	sandy claystone
5	0.04	0.96	dull coal, 5-10% bright bands
4	0.01	0.97	sandy grey mudstone
3	0.07	1.04	dull coal, 5% bright bands
2	0.02	1.06	grey mudstone
1	0.13	1.19	dull coal, 5% bright bands
	0.01	1.20	grey mudstone
	0.46	1.66	dull coal

Table 2. MACERAL ANALYSES, DUNCAN SEAM, DUNCAN COLLIERY

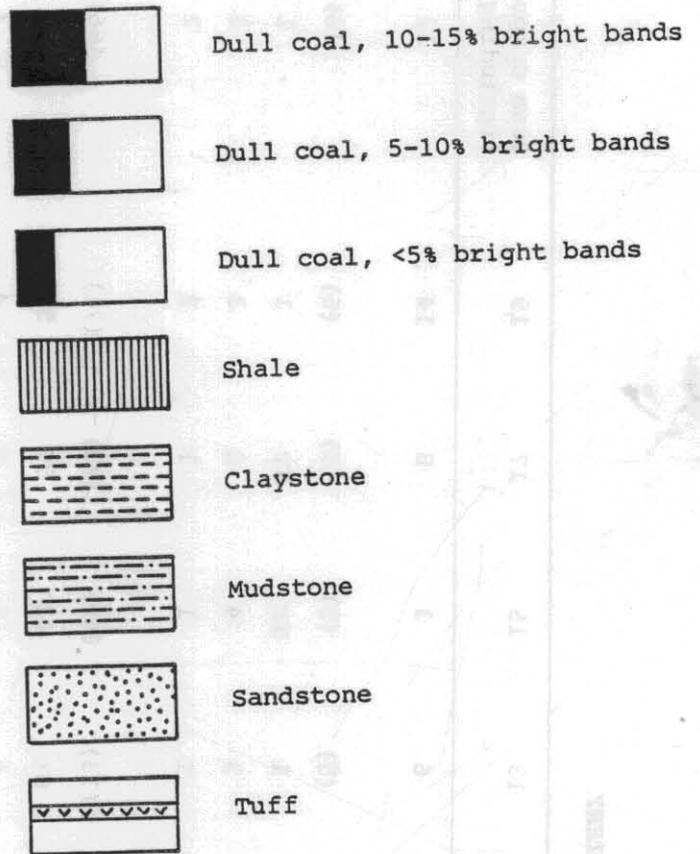
Sample numbers	1	3	5	13	15	17	19	Seam composite (including bands)
VITRINITE	26	11	8	6	3	8	14	12
EXINITE	(5)	(6)	(9)	(5)	(5)	(3)	(6)	(6)
Sporinite	1	1	1	1	Tr	Tr	1	1
Cutinite	2	4	7	3	4	2	3	3
Resinite	2	1	1	1	1	1	2	2
INERTINITE	(58)	(65)	(60)	(73)	(49)	(73)	(71)	(66)
Semifusinite	44	52	47	61	43	59	58	48
Fusinite	3	2	1	2	1	2	4	3
Micrinite	1	1	2	1	1	4	Tr	Tr
Macrinite	2	7	5	3	2	4	2	8
Inertodetrinite	8	3	5	6	2	4	7	7
MINERALS	11	18	23	16	43	16	9	16

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Previously collected
channel sample
(Bacon, 1983)



LEGEND



Channel sample for this
report

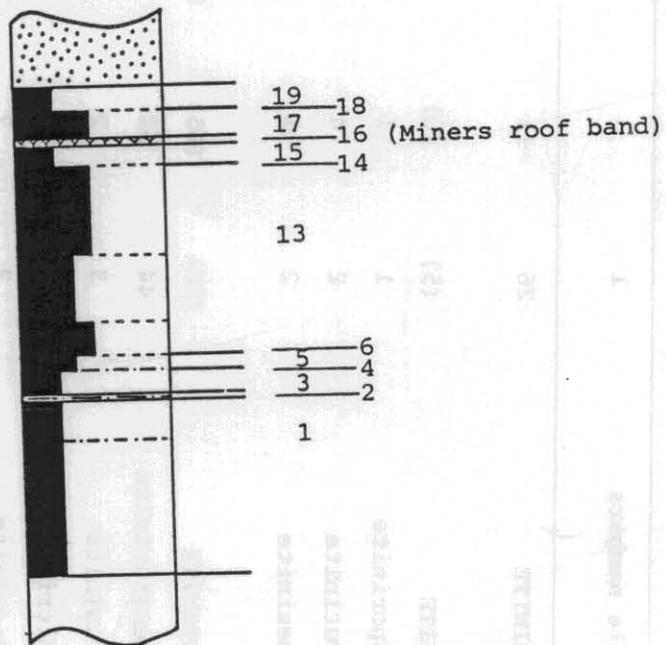
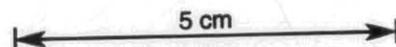


Figure 1. Duncan Seam, Duncan Colliery



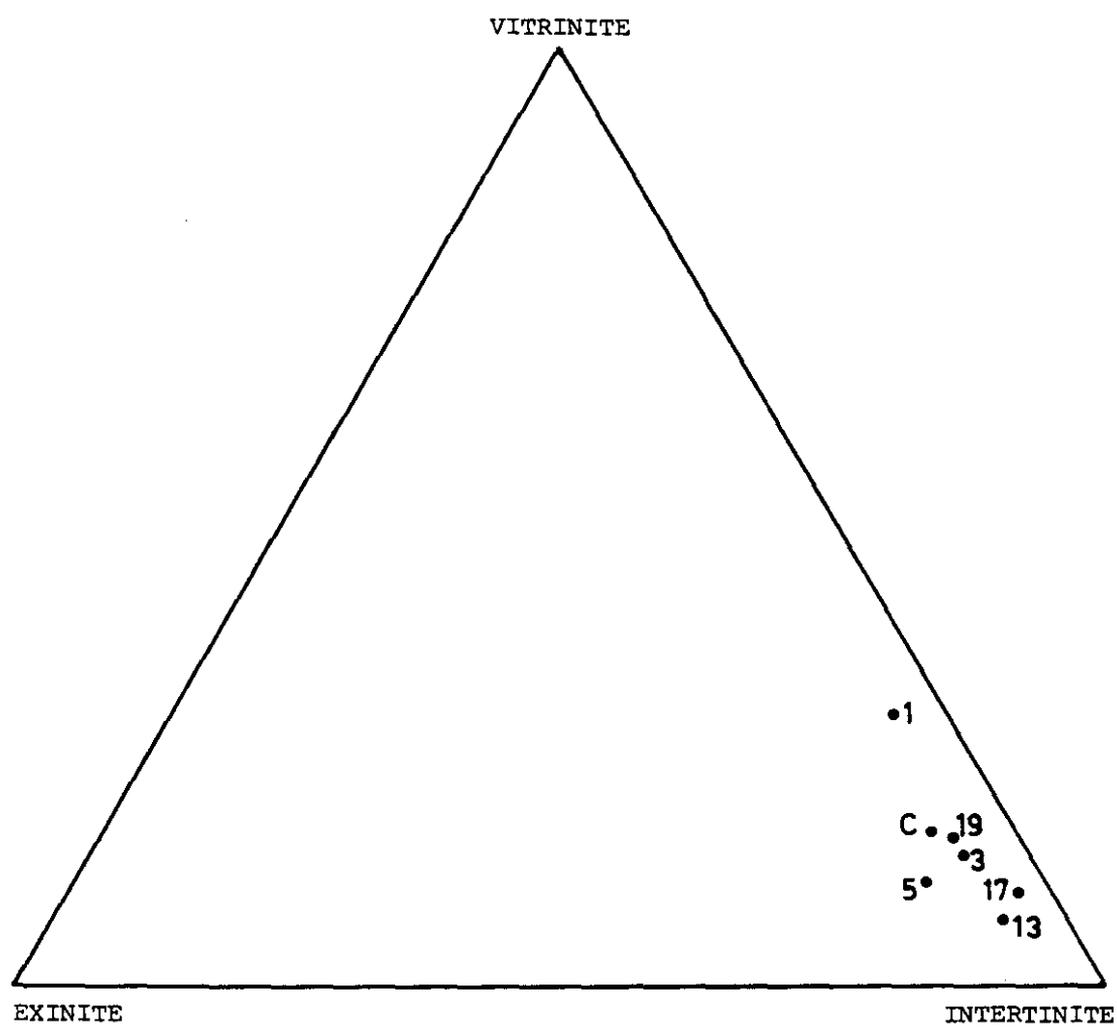
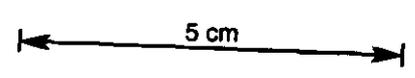


Figure 2. Petrographic composition of the Duncan Seam plys



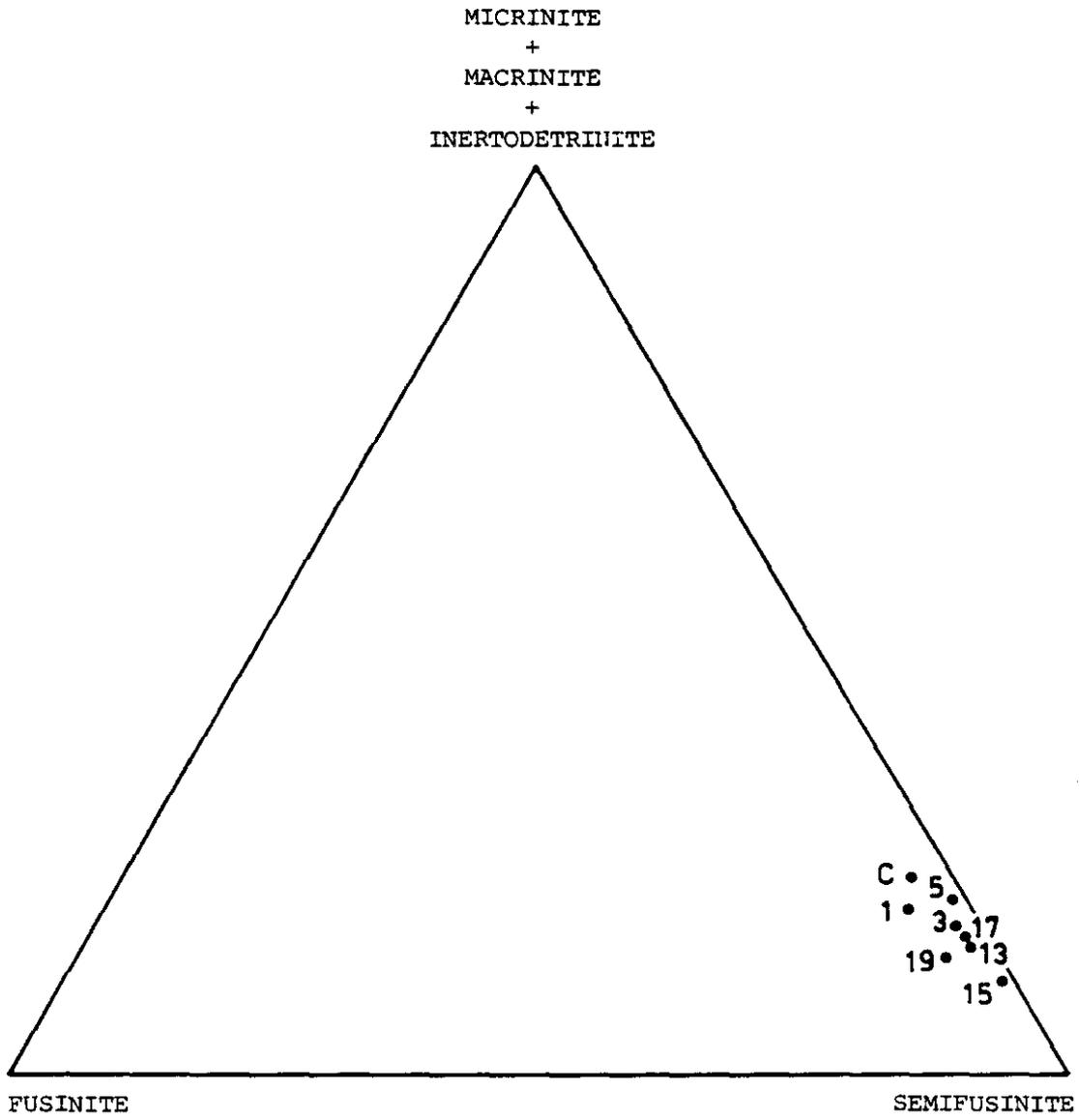


Figure 3. *Inertinite composition of the Duncan Seam plys*

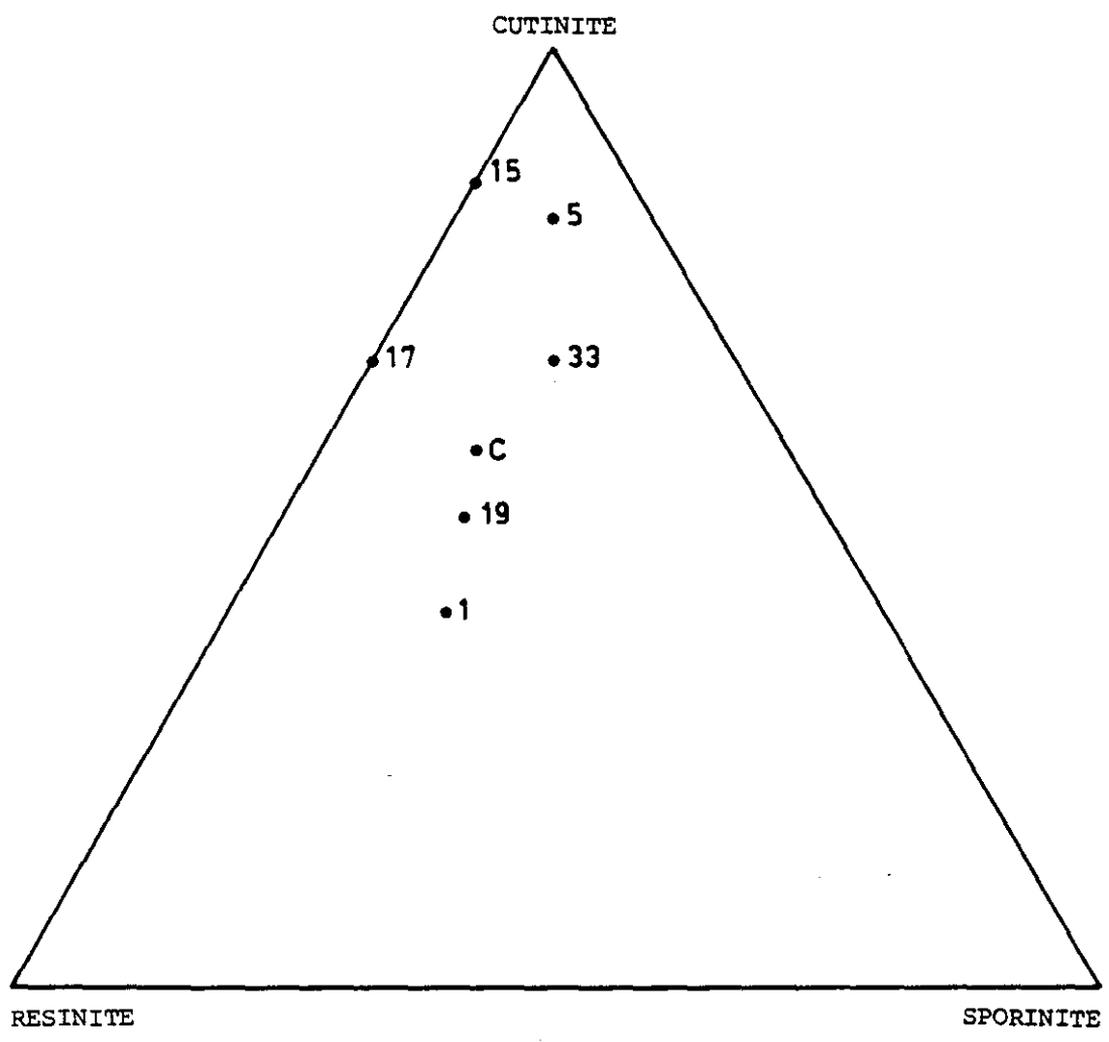


Figure 4. Exinite composition of the Duncan Seam plys

5 cm