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DEPARTMENT OF NATIONAL DEVELOPMENT.

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RESULTS OF DRILLING FOR OPEN-CUT COAL IN THE BLOOMFIELD AREA, NEWCASTLE REGION, N.S.W.

by

G. M. BURTON

RECORDS 1952/46.

RESULTS OF DRILLING FOR OPEN-CUT COAL IN THE BLOOMFIELD AREA, NEWCASTLE REGION, N.S.W.

by

G. M. BURTON.

SUMMARY.

During late 1951 and early 1952 the Bureau, while searching for open-cut coal in New South Wales, prospected the Big Ben and Donaldson's Seams in the Bloomfield Area which is 3½ miles south of East Maitland.

Drilling involving 21 holes and totalling about 2400 ft. revealed that although the actual coal of the seams was quite good in parts the seams themselves were subject to marked banding, thinning, and splitting. This not only severely limits open-cut prospects to small areas but will make mining difficult.

The following reserves* were defined:

Open-Cut Coal Reserves				Underground Colliery Reserves			
Tonnage	Ash%	Volatile Matter %	Calorific Value B.Th.Us/lb.	Tonnage	Ash%	Volatile Matter %	Calorific Value B.Th.Us/lb.
Donaldson's							
380,000	c.14	c.34	c.12,350	-			
Big Ben							
1,450,000	c.14	c.33.5	c.12,300	200,000	c.17	c.32	12,000

*Calculated on the basis of 1,500 long tons of coal per acre foot. Analyses exclude bands.

In the contiguous East Bloomfield, Stoney Pinch and Thornton Areas an additional 16 holes with a total footage of 2,250 feet were drilling and indicated that the seams were characterised by the same rapid variation and offer no better possibilities than the main Bloomfield Area.

INTRODUCTION.

On the basis of a recommendation from the New South Wales Department of Mines, the Joint Coal Board requested the Bureau to investigate on a "test and define" scale the possibilities of establishing open-cuts on Donaldson's and the Big Ben Seams in the vicinity of Bloomfield Colliery; the area covered embraced Portions 19, 20, 23, 24 and 29, Ph. Maitland, Co. Northumberland, N.S.W. Investigations ultimately continued into Portion 25 and 26, Ph. Stockrington.

The area lies within ¾ mile of the terminus of the Bloomfield branch railway line; the terminus is equipped with sizing screens and picking belts and is only about 17 miles rail distance from the main northern coal wharves at Newcastle.

The two seams have previously been worked by several collieries on the northern margin of the Bureau's prospecting area and several prospecting shafts have been opened within the area itself. Severe drilling trouble was experienced in holes S10 and S22 and it is possible that workings from a neighbouring shaft may have extended almost to or around these holes.

The Bureau continued its Bloomfield drilling programme into the adjoining East Bloomfield area and sank several scout

holes in the vicinity of Stoney Pinch further to the east. The results of this drilling were less promising than the main Bloomfield Area and it is planned to issue the full report on these additional holes as a separate Bureau Record at a later date.

The main Bloomfield area and contiguous portions are heavily timbered and rugged. Mining is unimpaired by public utilities such as roads and power lines.

GEOLOGY.

The sediments outcropping in the Bloomfield Area belong to the Tomago "Stage" of the Permian, "Upper" or Newcastle Coal Measures. The beds dip in a westerly direction and form part of the eastern flank of the southerly pitching syncline lying between Bloomfield and Buchanan.

The seams drilled in the area were stratigraphically from top to bottom:

Buttai Seam
Donaldson's Seam
Big Ben Seam
Tomago Thin Seam.

Donaldson's, Big Ben (Tomago Thick) and Tomago Thin Seams belong to what are called the Four Mile Creek Beds of the "Tomago Stage."

Buttai Seam. A seam lying from 15 to 40 feet above Donaldson's Seam in the Bloomfield Area may be the lowest of the vaguely defined Buttai Seams of the Tomago "Stage". The seam is thin and banded and the main unsplit body of the seam ranges from about 1 to 4 feet in thickness. It was encountered in several holes but showed no signs of commercial importance.

Donaldson's Seam. Within the area outlined as suitable for open cutting, drilling indicated that Donaldson's Seam will have an average thickness of between 5 and 6 feet. The shaft used as survey level datum in this report was sampled by the Joint Coal Board and the results of the proximate analysis of the 5 feet 7½ inches section of the seam were as follows:

H.M. %	Volatile Matter %	Fixed Carb. %	Ash %	B.Th.U's/ lb.	Sulphur	Phosphorous
3.37	31.85	53.02	11.76	12,303	1.0	0.002

Reference: J.C.B. Plan EN120

The Bureau drilling indicated the bottom plies of up to about 3 feet of the seam were superior and had relatively high volatile matter and low ash contents. The best area of development appears to be between bores S1, S9 and BMR30. Drilling points to a deterioration to the south and west of this section. The southern limit of the possible open cut has been set only tentatively in the present position and is based on the apparent deterioration in bores S20, S19, S7 and BMR31. During the proving stage it may be found that part of the area south of this limit could be mined profitably. Calculations based on the assumption of an average minable section of 5 feet indicate testing and defining reserves to be 380,000 tons. This figure is estimated on the basis of 1,500 tons per acre

foot and does not take into account loss of reserves due to weathering near the outcrop. The quality of the coal is still partly undetermined because of core recovery but the reserves defined appear to have an average ash content of 12 to 14%, volatile content of 32-34%, and calorific value of 12,350 B.Th.U's/lb, excluding bands.

Big Ben Seam. In the possible open-cutting area the Big Ben Seam is separated from Donaldson's Seam by approximately 30 feet of sediments in the eastern part and up to about 80 feet in the west. However, for the larger portion of the area where the two seams would be mined together the stratigraphical interval will be about 30 to 50 feet. The Big Ben Seam splits considerably in the Bloomfield Area. In the north-western sector around bores S4, S16, S6 and S8 the seam has a full thickness of 10 or 11 ft.; to the south and east of this area the lower ply of 1 to 2 feet which may be the Tomago Thin Seam appears to split away from the main upper body of about 8 to 10 feet of coal. This main 8 to 10 ft. in turn is subject to splitting at approximately its centre; this splitting likewise takes place in an easterly and southerly direction. In the open-cut area the main upper and lower splits are separated by from 0 to 6 feet. The average thickness of coal in the seam in this area will be about 10 feet and would provide reserves of the order of 1,450,000 tons and of an average quality of 14-15% ash, 33-34% volatile matter and 12,350 B.Th.U's/lb. excluding bands. In these calculations the results of hole S5 have partly been ignored. There is some doubt, based largely on lack of core, about this hole which, as logged, shows a marked deterioration of the Big Ben. South of the open-cut area the seams are difficult to correlate but all indications are that splitting is remarkably rapid. The quality of the Big Ben Seam while possibly of higher ash content with bands excluded than Donaldson's is, is still suitable for open-cutting.

Tomago Thin Seam. This seam is not of economic importance as a separate unit in the Bloomfield Area but in the vicinity of S4, S16, S6 and S8 where it joins the Big Ben Seam it increases the workable thickness of coal.

The dip of the Big Ben Seam is about 1 in 17 to the west and Donaldson's 1 in 13. The anomalous structure contours between S7, BMR31 and S19 indicate the presence of a north-westerly striking fault with a throw of about 15 feet. Slight rolling also appears to be present in the Bloomfield area.

No igneous intrusions were observed.

MINING.

The Bureau's drilling indicated that the Big Ben and Donaldson's Seams are within the limits of open cutting in the Bloomfield Area. To strip the full area shown it will be necessary in some places to remove 95 feet of overburden (ratio of about 17 to 1) from Donaldson's Seam, but if both seams are worked in this area the total overburden to coal ratio will be about 8 to 1.

Over the whole area delineated the combined overburden to coal ratio for the two seams should not exceed 10 to 1. Although double working will be necessary the maximum overburden removal in any one working will not exceed 100 feet. The drilling results indicated that the thickening central non-coal band of the Big Ben Seam will be troublesome.

Additional reserves of open-cut coal may lie at the outcrop and in the pillars of Bloomfield South and Oakwood Collieries (Big Ben Seam) and Bloomfield No. 2 and No. 3 Collieries (Donaldson's Seam).

In the triangular area between bores S7, S16, and S8 the coal is becoming too deep for open-cutting but as the Big Ben Seam is 8 to 11 feet thick in these holes the area may be suitable for underground mining. The holes indicate possible reserves of 200,000 tons in the Big Ben Seam.

COAL ANALYSES SAMPLES AND LOGGING.

The coal core from hole S1 was despatched to the N.S.W. Department of Mines' Laboratory in Sydney where it was sampled and the bands as shown in the appendix were excluded. Proximate analyses were then performed on the samples.

All holes other than S1 were sampled in the Bureau's field laboratory at West Wallsend by a geologist and student geologist of the Bureau. A system of sampling was established wherein all non-coal bands exceeding ½" were rejected and samples were restricted to a maximum of about 2 feet of core.

The system of sampling was/to varied later exclude bands 1" or more in thickness; there were only a few/slight deviations from this. All samples were analyzed by the N.S.W. Department of Mines.

The laboratory logs in some of the early holes varied from the field logs but it has been decided for the sake of uniformity to use only the field logs. The only difficulty this provides is that the sampling geologist may have rejected different bands than those shown on the logs. However, the view taken is that the results of a "testing and defining" programme indicate general possibilities and such a picture can be deduced with the normal reservations for error from the tables of analyses and logs of this report.

SURVEYING.

The area was surveyed by plane table and telescopic alidade survey in several stages. Traverse errors were averaged out over each closure and the possible errors now existing between neighbouring bores are negligible. Datum used was the bar across the prospecting shaft as indicated on plan N14/82. This bar had previously been tied by a J.C.B. survey into the Hunter Water Board standard level system. Portion boundaries have been plotted approximately using the alleged corner posts at S.E. of Port. 21, N.E. of Port. 20 and N.W. of Port. 23.

ACKNOWLEDGMENT.

Grateful acknowledgment is made to the assistance given by officers of J.C.B. Newcastle District Office, geologists and chemists of the Geological Survey Branch of the N.S.W. Department of Mines, and Mr. W. Lewis, Manager of Bloomfield Collieries.

APPENDIX I

Most of the holes drilled in the Bloomfield Area were drilled by Failing drills and in the logging of these holes depths have been measured from the rotary table. To convert the logged depth to true depth below ground level it is necessary to subtract the rotary table height for each hole as shown in the following table.

ROTARY TABLE HEIGHTS.

Hole	Table Height	Hole	Table Height
S1	1'4"	S11	1'4"
S2	1'4"	S12	1'4" ?
S3	1'4"	S16	2'0"
S4	1'4"	S17	1'4"
S5	1'4"	S18	Zero
S6	1'4"	S19	1'5"
S7	1'4"	S20	1'4"
S8	1'4" ?	S22	Zero
S9	1'4" ?	S23	1'4"
S10	Zero	BMR.30	Zero
		BMR.31	Zero

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Bureau of Mineral Resources, Geology and Geophysics

Area: Bloomfield Hole No: S1 Elevation: 198.4' ASL

Reference: Plan BMR N14/82 July,1952 Datum: H.W.B.

Begun: 3.12.1951. Finished: 5.12.1951 Depth: 104'0"

STRATIGRAPHIC LOG (1"=10')

Sst.	10' 0"	10' 0"
Shale	20' 6"	10' 6"
Sst.	25' 6"	5' 0"
DONALDSONS SEAM	31' 4"	5'10"
Sst.	35' 2½"	3'10½"
Shale	38' 7½"	3' 5"
Sst.	46' 0"	7' 4½"
Shale	48' 0"	2' 0"
Sst.	70' 0"	22' 0"
BIG BEN SEAM	73' 6"	3' 6"
	74' 5½"	0'11½"
sst.	79' 3"	4' 9½"
BIG BEN SEAM	84' 8½"	5' 5½"
Sst.	87' 9½"	3' 1"
BIG BEN S.		6½"
Shale	88' 4"	
Sst.	104' 0"	15' 8"

COAL DETAIL (1"=2')

HM	V	FC	Ash	BTHU			
					25' 6"		7½"
					26' 1½"		
2.0	31.9	49.6	16.5	12,050			
Coal							2' 9½"
					28'11"		
2.1	35.4	50.8	11.7	12,750			
Coal, dull and bright interbedded.							2' 5"
					31' 4"		
					70' 0"		1' 6"
					71' 6"		
2.3	36.1	55.1	6.5	13,500			
Coal							2' 0"
					73' 6"		
					79' 3"		
2.0	31.9	50.5	15.6	12,040			
Shale, coaly and coal mostly bright pyritiferous							2' 6½"
					81' 9½"		
1.9	30.2	45.3	22.6	10,980			
Coal, mostly bright pyritiferous with sandstone and siltstone bds.							2'11"
					84' 8½"		
					87' 9½"		6½"
Coal bright.					88' 4"		

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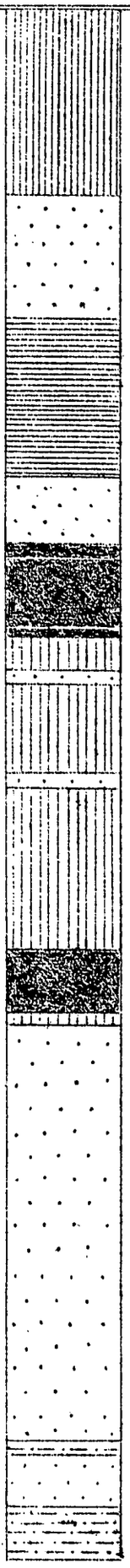
Area: Bloomfield | Hole No: S2 | Elevation: 191.0' ASL

Reference: Plan BMR N14/82, July, 1952 | Datum: H.W.B.

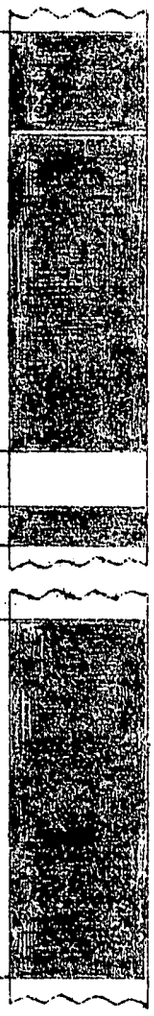
Begun: 4.12.51 | Finished: 10.12.51 | Depth: 111'1"

STRATIGRAPHIC LOG (1"=10')



Clay		12' 0"
	12' 0"	
Sst.		8' 0"
	20' 0"	
Shale		10' 0"
	30' 0"	
Sst		4' 6"
	34' 6"	
BIG BEN SEAM		5' 6½"
	40' 0½"	
Clay		2' 1½"
	42' 2"	
Sst		1' 0"
	43' 2"	
Clay		5'10"
	49' 0"	
Sst		1' 0"
	50' 0"	
Clay		10' 6"
	60' 6"	
TOMAGO THIN SEAM		3'11½"
	64' 5½"	
	65' 2"	8½"
Sst		26'10"
Slst.	92' 0"	1' 0"
	93' 0"	
Sst		3' 3"
	96' 3"	
Clay, slst shale		3' 4½"
	99' 7½"	

COAL DETAIL (1"=2')



HM	V	FC	Ash	BThU
4.7	25.2	47.3	22.8	8,710

34' 6"

Coal, bright, shaly — 4' 8"

39' 2"

39' 8"

Coal, soft, powdery.

2.9	25.7	45.8	25.6	10,070

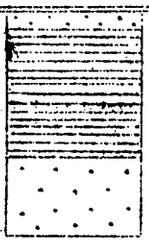
40' 0½" — 4½"

60' 6"

Coal, shaly, soft — 3'11½"

64' 5½"

STRATIGRAPHIC LOG (1"=10')



Cont'd. Sst.sh.slst.	103' 4"	3' 8½"
Sh.slst.		6' 4½"
	106' 0"	
Sh.sst.		5' 1"
	111' 1"	

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Bureau of Mineral Resources, Geology and Geophysics

Area: Bloomfield Hole No: S3 Elevation: 201.4' ASL

Reference: Plan BMR N14/47, April,1952 Datum: H.W.B.

Begun: 5.12.51 Finished: 11.12.51 Depth: 170' 0"

STRATIGRAPHIC LOG (1"=10')

Clay	0' 0"	11' 0"
	11' 0"	
Sst		7' 6"
	18' 6"	
Shale		11' 0"
	29' 6"	
Sst with shale, coal and sltst. bands		9' 6"
		7"
		1' 0"
		3' 1"
	45' 0"	
Shale with coal & sltst. bands		21' 4"
		1' 1"
		3' 7"
	71' 0"	
Slst.	73' 0"	2' 0"
Sst		5' 0"
	78' 0"	
Shale		7' 0"
	85' 0"	
Cont'd.	85' 0"	
Sst		15' 0"
	100' 0"	
Shale		5' 0"
	105' 0"	
Sst		65' 0"
	170' 0"	

COMMONWEALTH OF AUSTRALIA

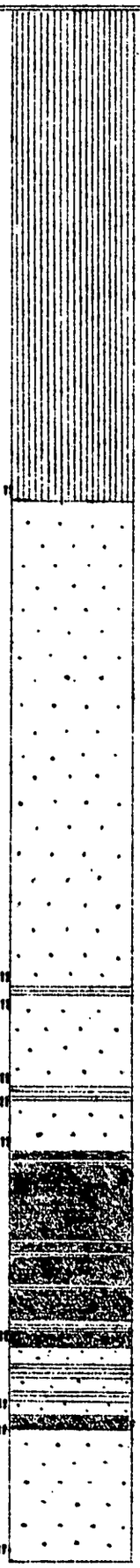
Bureau of Mineral Resources, Geology and Geophysics

Area: Bloomfield | Hole No: S4 | Elevation: 132.0' ASL

Reference: BMR N14-47/1W 52 | Datum: H.W.B.

Begun: 12.12.51 | Finished: 14.12.51 | Depth: 94' 0"

STRATIGRAPHIC LOG (1"-10')



Clay		30' 0"
	30' 0"	
Sst		29' 4"
	59' 4"	
Shale		3"
	59' 7"	
Sst		5' 9"
	65' 4"	
Shale & sst		8"
	66' 0"	
Sst		3' 0"
	69' 0"	
BIG BEN SEAM		11' 1½"
	80' 1½"	
Slst.shale		5" 0½"
and sst.bd.	85' 2"	
BIG BEN S.	85'11"	9"
Sst		8' 1"
	94' 0"	

COAL DETAIL (1"-2')

						69' 0"	
HM	V	FC	Ash	BthU			
2.5	34.8	52.3	10.4	12,720			
Coal, dull and bright interbedded							3' 0"
						72' 0"	
2.4	31.1	44.7	21.8	11,060			
Coal, dull and bright shaly.							3' 0"
						75' 0"	
2.3	32.2	53.4	12.1	12,520			
Coal, mostly bright, pyritiferous							3' 0"
						78' 0"	
2.4	27.4	46.5	23.7	10,820			
Coal, dull and bright.						78' 9"	9"
						79' 6"	
Coal, bright						80' 1½"	7½"
						85' 2"	
Coal, bright						85'11"	9"

COMMONWEALTH OF AUSTRALIA

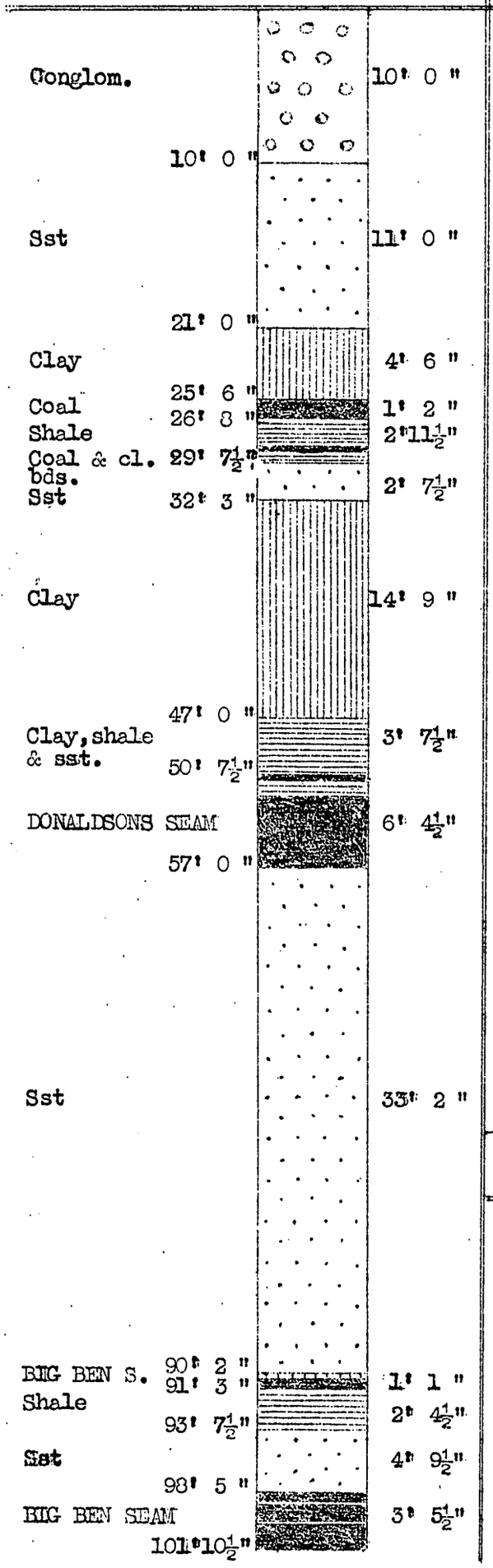
Bureau of Mineral Resources, Geology and Geophysics

Area: Bloomfield | Hole No: S5 | Elevation: 206.2' ASL

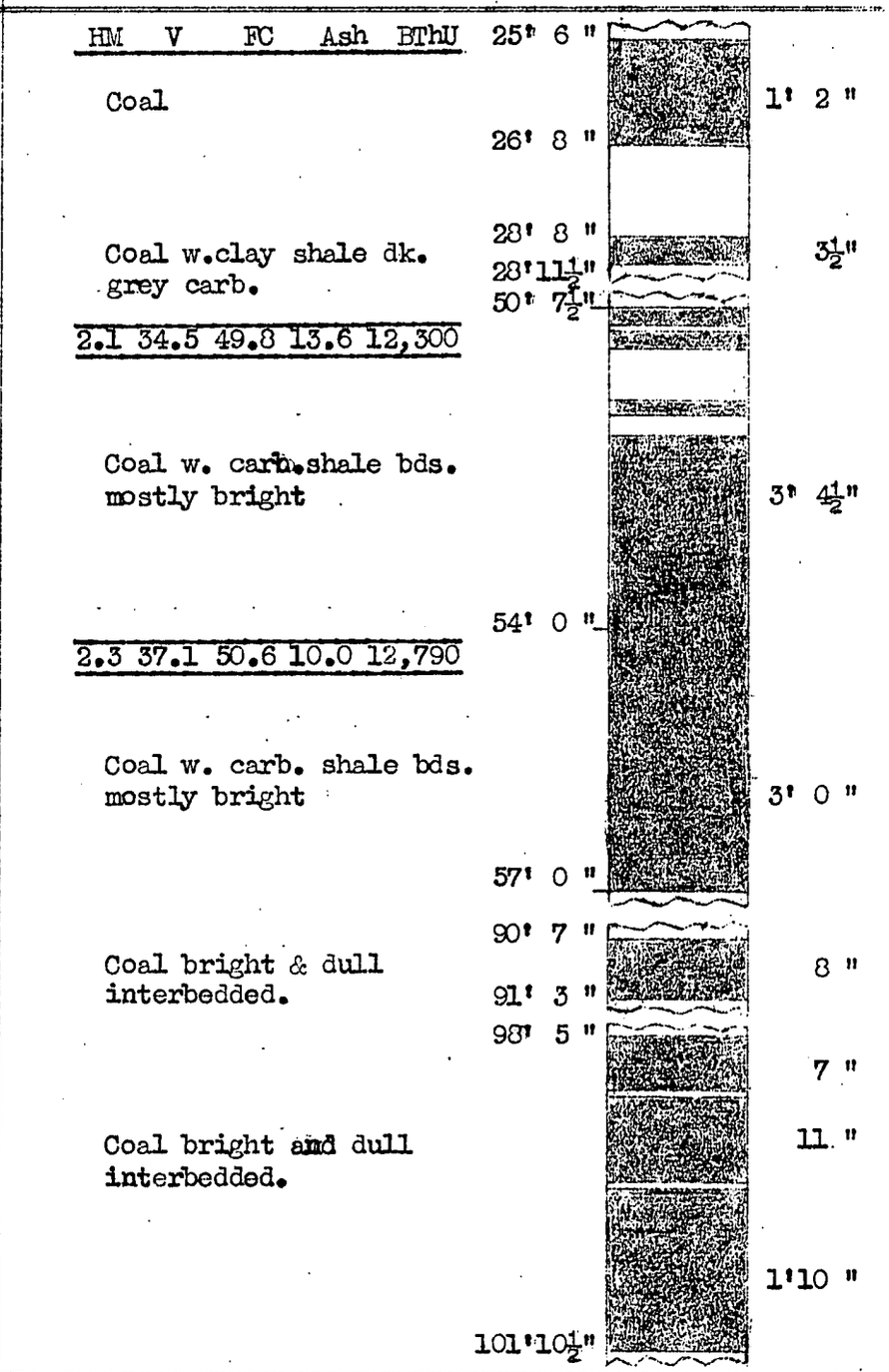
Reference: BMR Plan N14/82, July, 1952 | Datum: H.W.B.

Begun: 10.12.51 | Finished: 12.12.51 | Depth: 125'0"

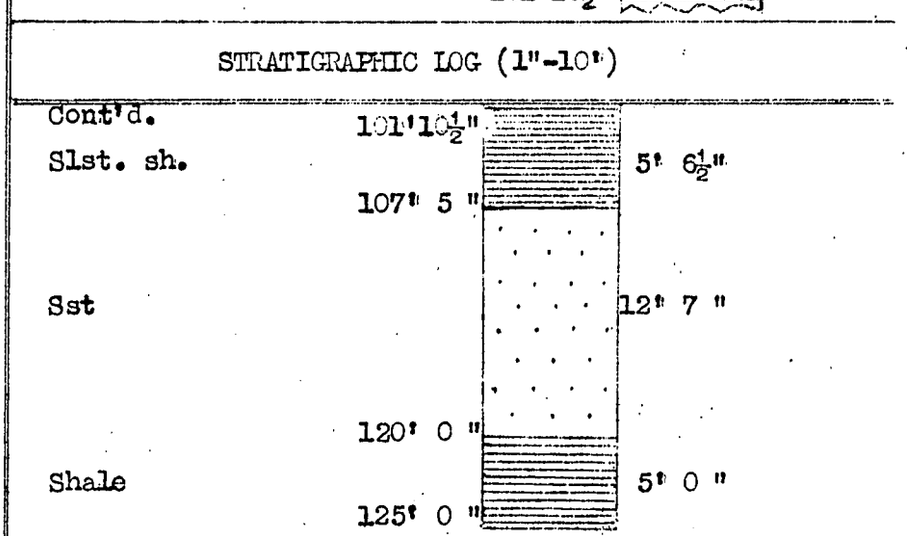
STRATIGRAPHIC LOG (1"-10')



COAL DETAIL (1"-2')



STRATIGRAPHIC LOG (1"-10')



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Bureau of Mineral Resources, Geology and Geophysics

Area: Bloomfield | Hole No: S6 | Elevation: 133.3' ASL

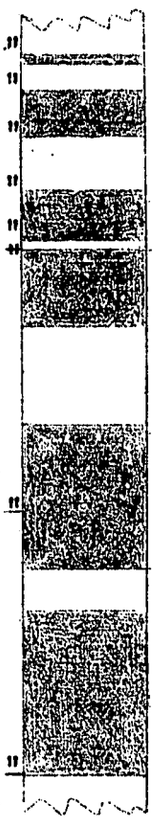
Reference: BMR N14-47/1V 52 | Datum: H.W.B.

Begun: 13.12.51 | Finished: 17.12.51 | Depth: 149' 9"

STRATIGRAPHIC LOG (1"-10')

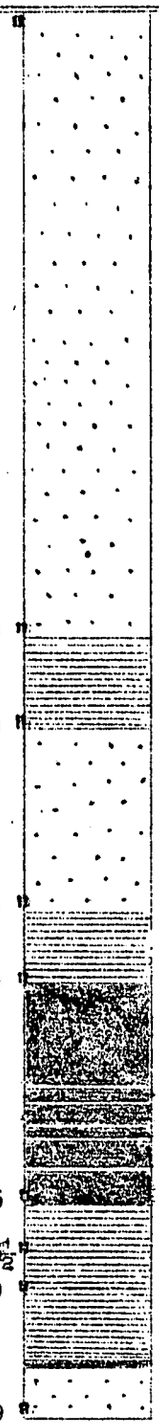
Clay		14' 0"
	14' 0"	
Sst		6' 0"
	20' 0"	
Congl.		12' 0"
	32' 0"	
Shale		2' 2½"
	34' 2½"	
Cl.w. Coal		1' 3½"
	35' 6"	
Sst.w. Coal		6' 6"
	42' 0"	
DONALDSONS SEAM		6' 6"
	48' 6"	
Sst.		26' 6"
	75' 0"	

COAL DETAIL (1"-2')



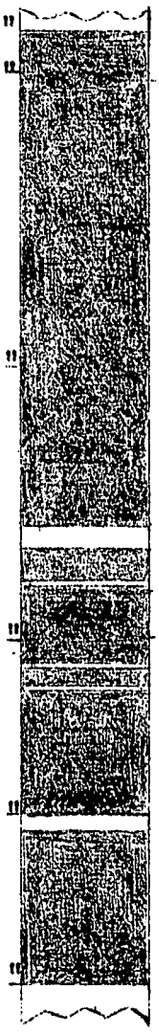
HM V. FC Ash BThU	34' 8"	1½"
Coal bright	39' 6"	
Coal	40' 0"	
	42' 0"	
Coal	42' 6"	6"
2.2 35.4 52.7 9.7 12,870	42' 9"	
Coal, bright		3' 0"
	45' 6"	
2.2 37.1 50.3 10.4 12,740		
Coal, bright		
	48' 6"	

STRATIGRAPHIC LOG (1"=10')



	75' 0"	
Sst.		35' 0"
	110' 0"	
Shale		5' 0"
	115' 0"	
Sst.		10' 0"
	125' 0"	
Altst.		4' "
	129' 0"	
BIG BEN SEAM.		10' 5"
	139' 5"	
Sst.		2' 1½"
Slst.	141' 6½"	1' 5½"
Sh.	143' 0"	
Slst. Sst. & Coal		6' 9"
	149' 9"	

COAL DETAIL (1"=2')



129' 0"

129' 6"

2.3 32.8 51.6 13.3 12,330

Coal bright 3' 0"

132' 6"

2.2 34.5 49.0 14.3 12,180

Coal, bright 3' 0"

135' 6"

2.4 30.5 50.5 16.6 11,840

Coal, bright 2' 0"

137' 6"

2.1 28.4 43.8 25.7 10,550

Coal. w. sh. bands 2' 0"

139' 6"

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Bureau of Mineral Resources, Geology and Geophysics

Area: Bloomfield | Hole No: S7 | Elevation: 162.6' ASL

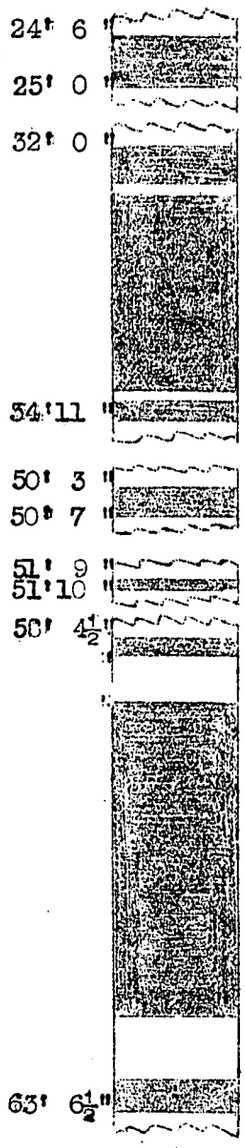
Reference: Plan BMR N14-32, July, 1952 | Datum: H.W.B.

Begun: 14.12.51 | Finished: 18.12.51 | Depth: 120' 2"

STRATIGRAPHIC LOG (1"-10')

Congl. w. coal bds.		26' 2"
	26' 2"	
Clay		5'10"
	32' 0"	
Coal w. cl. & sh.bds.		4' 2"
	36' 2"	
Clay		8'10"
	45' 0"	
Sst. w. coal & cl. bands		12' 9"
	57' 9"	
DONALDSONS SEAM		5'10"
	63' 7"	

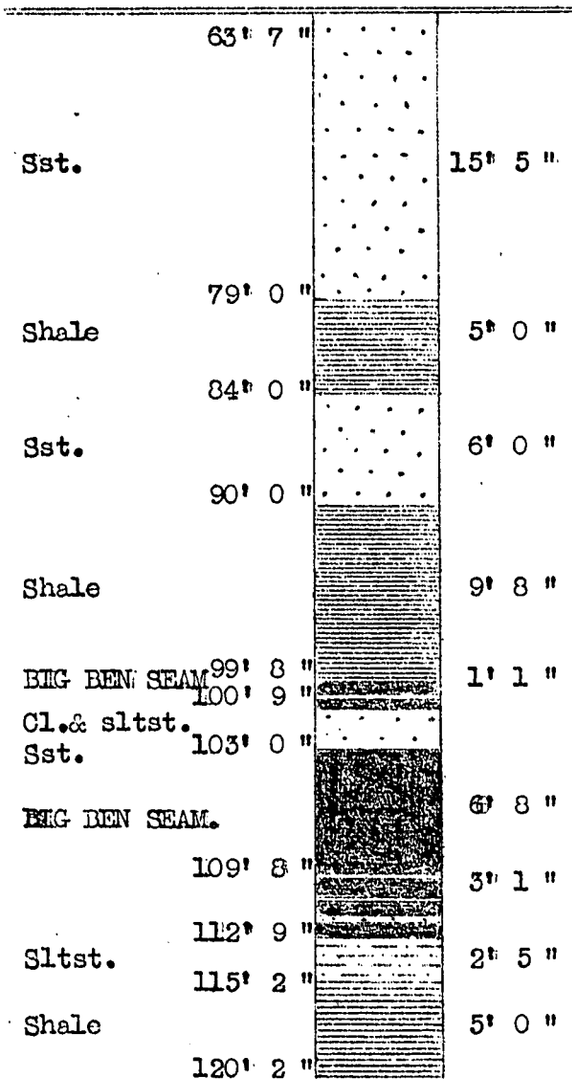
COAL DETAIL (1"-2')



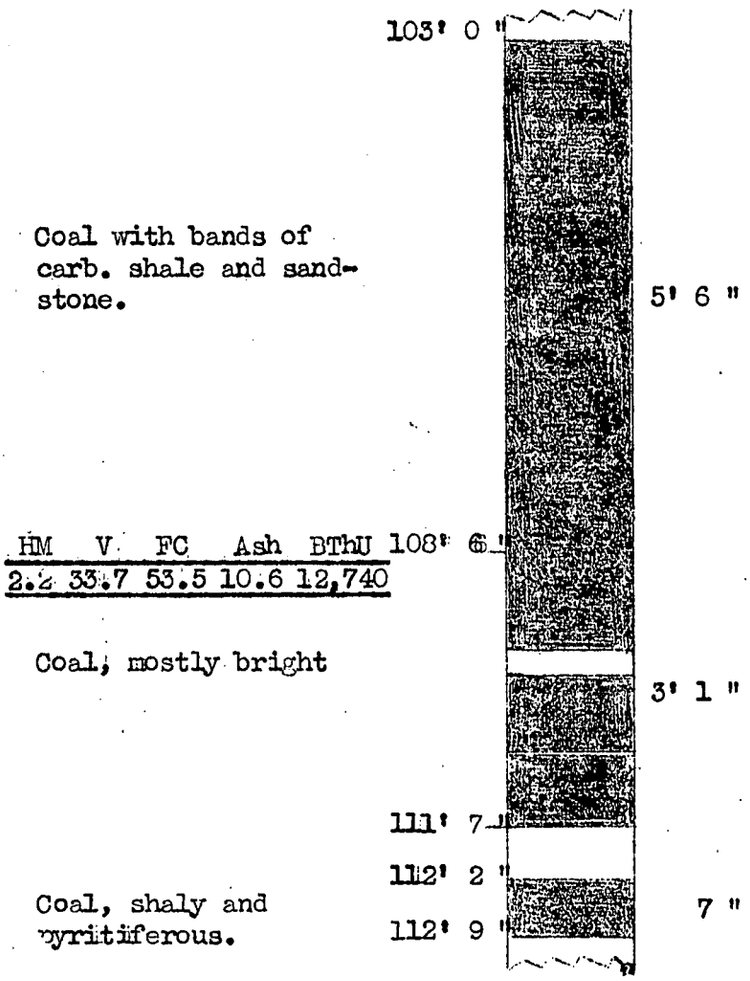
	24' 6"	
Coal		6"
	25' 0"	
	32' 0"	
Coal with carb. shale bands.		2' 11"
	34'11"	
	50' 3"	
Coal, bright		4"
	50' 7"	
	51' 9"	
Coal shaly.	51'10"	
	50' 4½"	
		1"
Coal, mostly bright		5' 2½"
	63' 6½"	

Bloomfield Hole No: S7

STRATIGRAPHIC LOG (1"-10')



COAL DETAIL (1"-2')



COMMONWEALTH OF AUSTRALIA

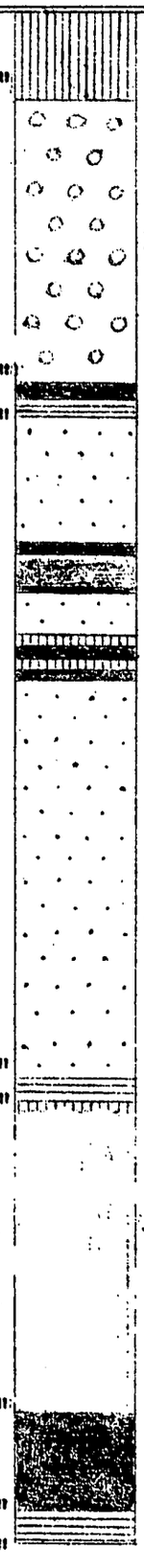
Bureau of Mineral Resources, Geology and Geophysics

Area: Bloomfield Hole No: S8 Elevation: 130.8' ASL

Reference: Plan BMR N14-47, April, 1952 Datum: H.W.B.

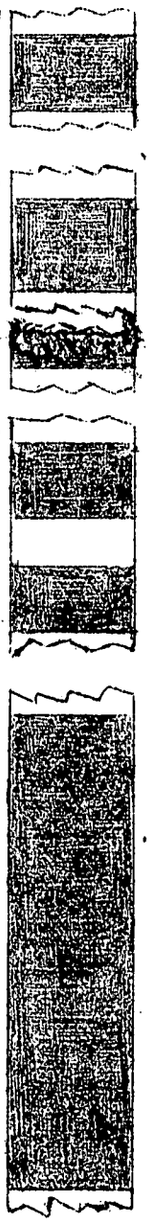
Begun: 19.12.51 Finished: 10.1.52 Depth: 173' 0"

STRATIGRAPHIC LOG (1"-10')



Clay	5' 0"	5' 0"
Congl.		16' 0"
Coal & shale.	21' 0"	1' 6"
	22' 6"	7'11"
		3½"
		10"
		2"
		10"
		8"
Sst. with clay, shale sltst. & coal bands		22' 9"
Congl.sh.	61' 0"	11"
	61'11"	
DONALDSONS SEAM	80' 0"	5' 3"
Shale	85' 3"	1' 9"
	87' 0"	

COAL DETAIL (1"-2')



Coal, bright	21' 0"	10"
	21'10"	
Coal, shaly & bright	30' 8"	10"
	31' 6"	
Coal, bright	33' 0"	2"
	33' 2"	
Coal, shaly	36' 3"	2' 0"
	38' 3"	

HM	V	FC	Ash	BThU
2.2	30.7	46.1	21.0	11,210

Coal, friable, dull	80' 0"	3' 0"
	83' 0"	

2.3	36.9	51.6	9.2	12,910

Coal, dull, shaly		2' 3"
	85' 3"	

STRATIGRAPHIC LOG (1"-10')

Cont'd. 87' 0"

C "

96' 8"

Shale 8' 0"

104' 8"

COAL 2' 0"

106' 8"

Shale 51' 4"

158' 0"

BIG BEN SEAM. 10' 8½"

168' 8½"

Shale 4' 3½"

173' 0"

COAL DETAIL (1"-2')

104' 8"

Coal, dull & bright 2' 0"

106' 8"

HM V FC Ash BThU
2.2 33.3 49.2 15.3 12,050

158' 0"

Coal, dull, shaly w.some clay & f.grd. ironstone bands 3' 3"

161' 3"

2.1 32.4 52.1 13.4 12,560

Coal, dull brownish w. bright bands. 3' 3"

164' 6"

Coal, bright and dull 11"

165' 5"

2.1 32.1 48.3 17.5 11,740

Coal bright with dull bands 3' 3½"

Coal with carb. shale bds.

Coal bright

168' 8½"

COMMONSEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Bloomfield | Hole No: S9 | Elevation: 259.0' ASL

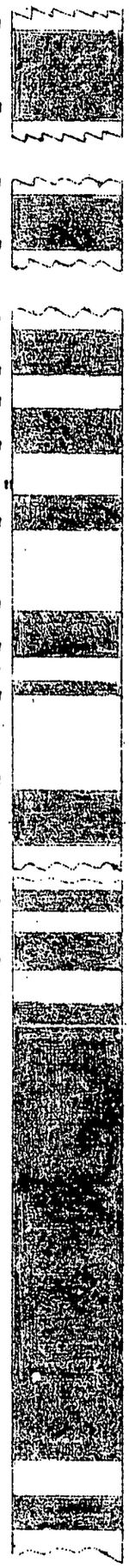
Reference: PLan BMR N14-32, July,1952 | Datum: H.W.B.

Begun: 15.1.52 | Finished: 17.1.52 | Depth: 128'0"

STRATIGRAPHIC LOF (1"-10')

Clay		19' 0"
	19' 0"	
Sst.w.clay band	22' 5"	3' 5"
Shale		4' 1"
	26' 6"	
Clay w.sh. & sst.		3' 0"
	29' 6"	
Clay w. sh.		3' 0"
	32' 6"	
COAL.	33' 8"	1' 2"
Clay.w.sh.	36' 1"	2' 5"
Coal w. sh. & sst. bds.		9' 3"
	45' 4"	
Shale w. sst. bds.	50' 4"	5' 0"
Clay w. sh.		5' 7"
	55'11"	
Sst.	58' 7"	2' 8"
Sh.w.clay		4' 4"
	62'11"	
DONALDSONS SEAM		8' 3½"
	71' 2½"	

COAL DETAIL (1"-2')



	32' 6"	
Coal and carb. shale		1' 2"
	33' 8"	
	36' 1"	
Coal, bright, friable		9"
	36'10"	
	38'11"	
Coal, dull, shaly		7"
	39' 6"	
	39'11"	
Coal, bright,hard,bdd.		7"
	40' 6"	
	41' 0"	
Coal, hard, dull		5"
	41' 5"	
	42' 5"	
Coal, shaly		7"
	43' 0"	
	43' 4"	
Coal, shaly		2"
	43' 6"	
	44' 7"	
Coal, bright, pyritif.		9"
	45' 4"	
	62'11"	
Coal, bright bdd.	63' 2"	3"
	63' 6"	
	64' 0"	6"

HM	V	FC	Ash	BThU
2.0	31.4	49.4	17.2	11,810

	64' 5"	
Coal, dull, hard with vitrain bands		2' 4"
	66' 9½"	

HM	V	FC	Ash	BThU
2.0	31.0	46.5	20.5	11,320

Coal, generally dull w. vitrain bands up to 1"		3' 6"
	70' 3½"	
	70' 9½"	
Coal, dull w. fine sh. bands		5"
	71' 2½"	

STRATIGRAPHIC LOG (1"-10')

Cont'd.	71' 2½"	
Shale		8' 9½"
	80' 0"	
Sltst.	82' 0"	2' 0"
Clay & Coal	83' 6"	1' 6"
Sltst.		4' 0"
	87' 6"	
Sst. w. clay & sh. & sltst. bands		11' 10"
	98'11"	
BIG BEN SEAM.		6' 1"
	105' 0"	
Sltst.& sst.		5' 9"
	110' 9"	
BIG BEN SEAM		6'10½"
	117' 7½"	
Sltst.w. sst.& sh.	120' 9½"	3' 2"
Coal	121' 6½"	9"
& sh. Sst.		6' 5½"
	128' 0"	

COAL DETAIL (1"-2')

	83' 0"	
Coal, hard, bright	83' 6"	6"
HM V FC Ash BThU	98'11"	
2.1 35.6 52.8 9.5 12,900		
Coal, dull, hard with f. vitrain bands		3' 5"
	102' 4"	
2.5 36.5 53.5 7.5 13,130		
Coal, bdd., bright hard pyritiferous		2' 8"
	105' 0"	
	110' 9"	
Coal, massive, generally dull, vitrain bands up to ¼". Carb.sh.bds.& high content of pyrites		5' 3½"
	116' 0½"	
	116' 6½"	
Coal, dull hard		10"
	117' 4½"	
Coal, hard bright	120' 9½"	
	121' 2½"	5"

COMMONWEALTH OF AUSTRALIA

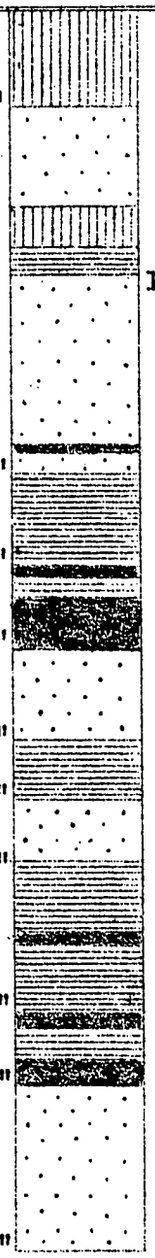
Bureau of Mineral Resources, Geology and Geophysics

Area: Bloomfield | Hole No: S10 | Elevation: 247.1' ASL

Reference: Plan BMR N14-82, July, 1952 | Datum: H.W.B.

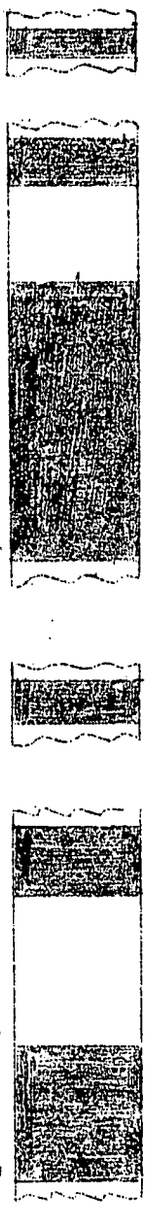
Begun: 14.1.1952 | Finished: 27.2.52 | Depth: 124' 0"

STRATIGRAPHIC LOG (1"=10')



Clay	0' 0"	5' 0"
	5' 0"	
Sst. w. clay, shale, sltst. & coal bands		19' 3"
	24' 3"	
Sltst. sst. & sh.		4' 10"
	29' 1"	
? BUTTAI SEAM.		4' 7"
	33' 8"	
Sst. w. clst. & sltst.		4' 11"
	38' 7"	
Sltst.		2' 5"
	41' 0"	
Sst.		3' 5½"
	44' 5½"	
Sltst. w. coal & sst. bands		6' 3½"
	50' 9"	
DONALDSONS SEAM.		4' 3"
	55' 0"	
Sst.		9' 0"
	64' 0"	

COAL DETAIL (1"=2')

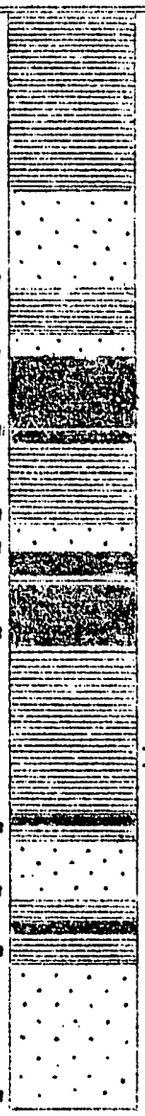


Coal, shaly	23' 0"		3"
	23' 3"		
Coal	29' 1"		6"
	29' 7"		
Coal	30' 8"		3' 0"
	33' 8"		
Coal	47' 0"		6"
	47' 6"		
Coal	51' 3"		9"
	52' 0"		
Coal	53' 7"		1' 5"
	55' 0"		

Bloomfield. Hole No:S10

STRATIGRAPHIC LOG (1"-10')

Cont'd.	64' 0 "	
Sltst.	68' 7 "	4' 7 "
Shale	73' 7 "	5' 0 "
Sst.	79' 3 "	5' 8 "
Shale	81' 8 "	2' 5 "
Sst.	82' 8 "	1' 0 "
BIG BEN SEAM.	86'11 "	4' 3 "
Sltst.	91' 5 "	4' 6 "
Sst.	93' 1 "	1' 8 "
BIG BEN SEAM.	97'11 "	4'10 "
Shale w. coal bands	108' 6 "	10' 7 "
Sst.	111'10 "	3' 4 "
Shale w. coal.	115' 2 "	3' 4 "
Sst.	124' 0 "	8'10 "



COAL DETAIL (1"-2')

HM	V	FC	Ash	BThU
2.1	33.0	50.8	14.1	12,320

Coal, dull w. bright bds.

83' 1 " — 86'11 " — 3'10 "

HM	V	FC	Ash	BThU
2.0	33.5	48.6	15.9	12,070

Coal, dull.

Coal dull w. bright bds.

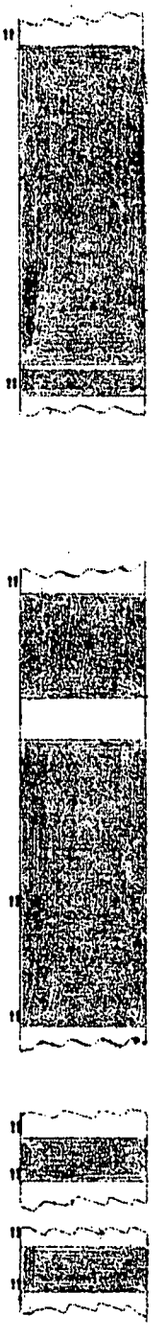
93' 1 " — 96' 8 " — 97'11 " — 3' 7 " — 1' 3 "

HM	V	FC	Ash	BThU
2.1	32.1	55.3	10.5	12,850

Coal

Coal — 107' 2 " — 107' 8 " — 6 "

Coal, shaly — 112'10 " — 113' 4 " — 6 "



COMMONWEALTH OF AUSTRALIA

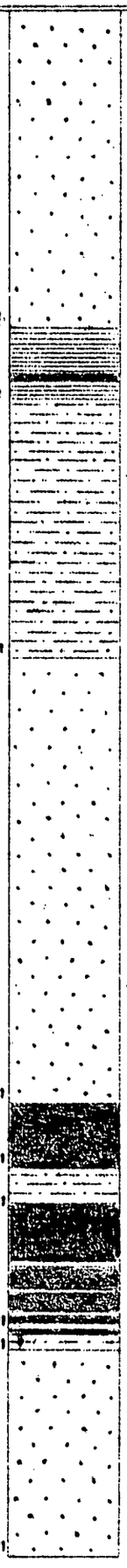
Bureau of Mineral Resources, Geology and Geophysics

Area: Bloomfield | Hole No: S11 | Elevation: 147.3' ASL

Reference: Plan BMR N14-47, April, '52 | Datum: H.W.B.

Begun: 16.1.52 | Finished: 21.1.52 | Depth: 96' 0"

STRATIGRAPHIC LOG (1"-10')



Sst.		19' 9"
	19' 9"	
Sh. w. coal band.		4' 3"
	24' 0"	
Sltst.		16' 0"
	40' 0"	
Sst.		28' 0"
	68' 0"	
BIG BEN SEAM.	71'11"	3'11"
Sltst.	73'11"	2' 0"
BIG BEN SEAM		7' 1½"
Sltst.	81' 0½" 82' 4"	1' 3½"
Sst.		13' 8"
	96' 0"	

COAL DETAIL (1"-2')

Coal	22' 6" 23' 0"	6"
HM V FC Ash BThU 2.5 36.8 52.7 8.0 13,250	68' 0"	
Coal, bright, pyritif.		3' 7"
	71' 7"	
	73'11"	
2.7 32.4 53.2 11.7 12,600		
Coal, bright		6' 4½"
Coal, bright w. dull bands	80' 3½"	½"
Coal, bright	81' 0½"	1"

COMMONWEALTH OF AUSTRALIA

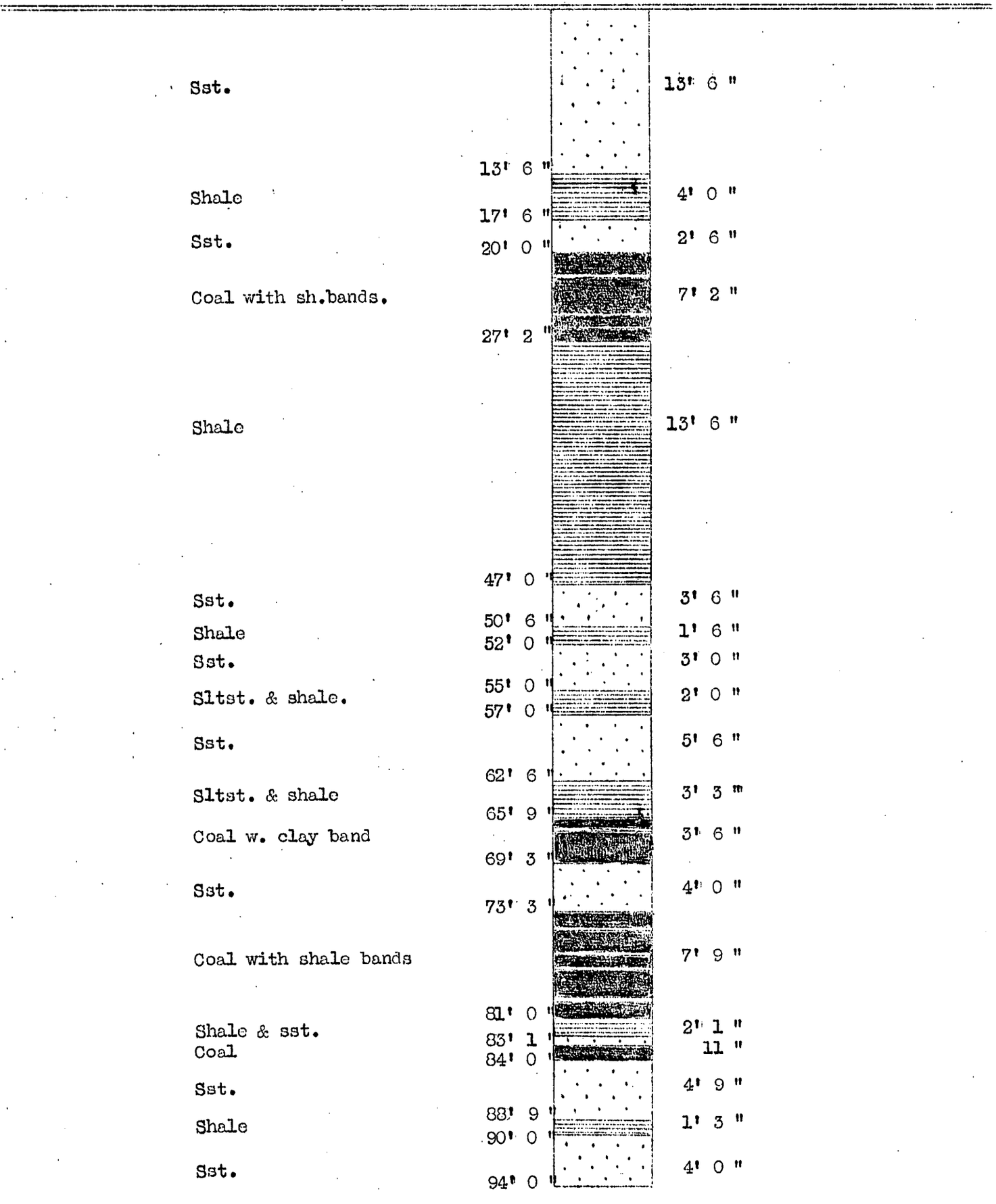
Bureau of Mineral Resources, Geology and Geophysics

Area: Bloomfield Hole No: S12 Elevation: 183.4' ASL

Reference: Plan BMR N14-82, July,1952 Datum: H.W.B.

Begun: 16.1.52 Finished: 17.1.52 Depth: 94'

STRATIGRAPHIC LOG (1"-10')



COAL DETAIL (1"-2')

Coal, bright 80% w. a little carb.sh.& gy. sandy shale.

HM	V	FC	Ash	BthU
2.6	31.1	48.2	18.1	11,660

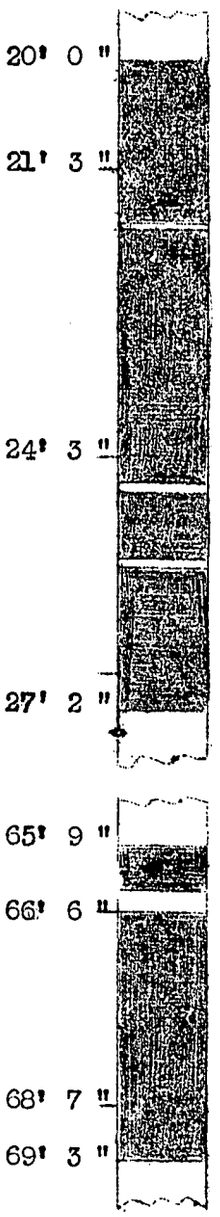
Coal, bright & dull banded carb. shale band.

2.5	33.5	50.8	13.2	12,400

Coal, bright & limonitic in part with soft carb. shale bands.

2.7	35.9	53.8	7.6	13,270

Coal, bright with clay bds.



HM	V	FC	Ash	BThU
2.4	31.1	48.4	18.1	11,690

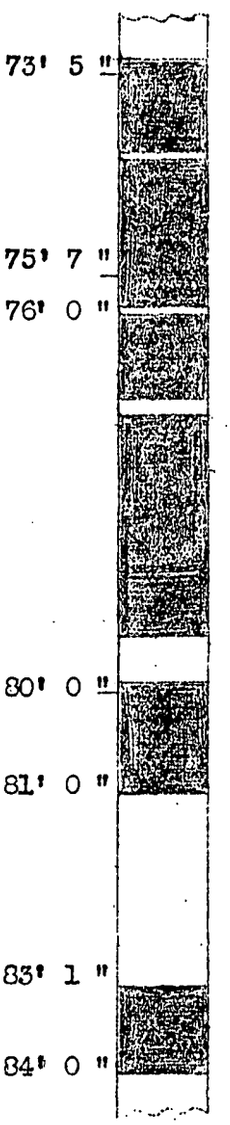
Coal, dull, laminated, shaly carb. sh. & coal, bright

2.4	30.9	51.1	15.6	12,070

Coal, bright with dull bands & carb. shale, pyritic.

Coal, bright

Coal, dull w. bright bands.



COMMONWEALTH OF AUSTRALIA

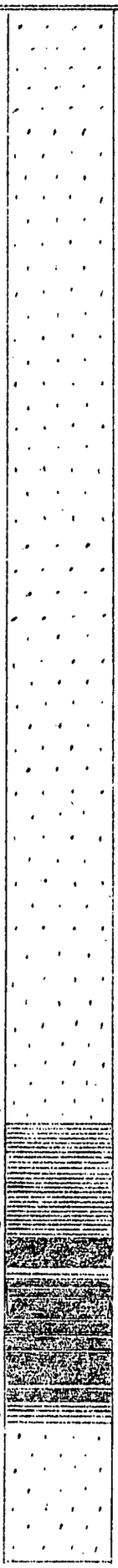
Bureau of Mineral Resources, Geology and Geophysics

Area: Bloomfield | Hole No: S16 | Elevation:

Reference: Plan BMR N14-82. April, 1952 | Datum: H.W.D.

Begun: 23.1.52 | Finished: 24.1.52 | Depth: 123' 0"

STRATIGRAPHIC LOG (1"-10')



Sst. — 73' 6"

73' 6"

Shale — 7' 6"

81' 0"

BIG BEN SEAM. — 9' 8½"

Sltst. — 1' 3½"

90' 8½"

92' 0"

Sst. — 9' 0"

101' 0"

COAL DETAIL (1"-2')

HM	V	FC	Ash	BThU
2.4	31.3	48.3	18.0	11,700

81' 0"

Coal, with carb. shale bds. — 3' 0"

84' 6"

2.4	32.2	47.7	17.7	11,750

Coal, bright with pyritiferous shale bands. — 3' 0"

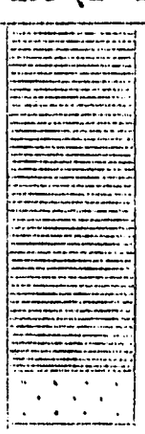
87' 6"

2.6	30.4	54.4	12.6	12,500

Coal with shale bands — 3' 2½"

90' 8½"

STRATIGRAPHIC LOG (1"-10')



101' 0"

Shale — 19' 0"

120' 0"

Sst. — 3' 0"

123' 0"

COMMONWEALTH OF AUSTRALIA

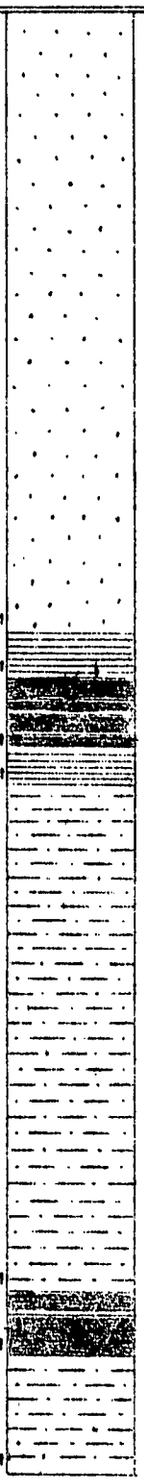
Bureau of Mineral Resources, Geology and Geophysics

Area: Bloomfield | Hole No: S17 | Elevation: 162.7' ASL

Reference: Plan BMR N14-82, August, 1952 | Datum: H.W.B.

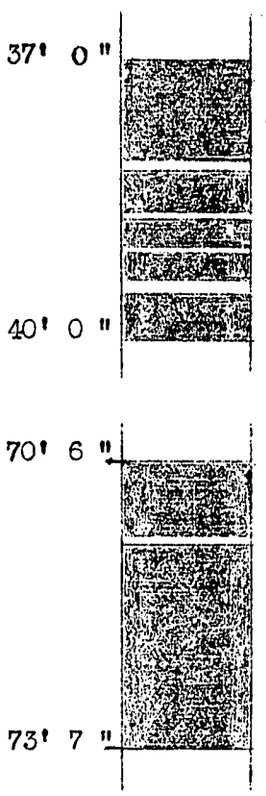
Begun: 25.1.52 | Finished: 30.1.52 | Depth: 148' 6"

STRATIGRAPHIC LOG (1"-10')



Sst.		34' 6"
Shale	34' 6"	2' 6"
? BUTTAI SEAM.	37' 0"	2' 4"
Shale	40' ?"	2' 6"
	42' 6"	
Sltst.		28' 0"
DONALDSONS SEAM	70' 6"	10"
	73' 7"	2' 2"
Sltst.		6' 5"
	80' 0"	

COAL DETAIL (1"-2')



	37' 0"	
Coal, bright, pyritif.		1' 2½"
Coal, bright		5"
Coal bright		2½"
		3"
Coal.		6"
	40' 0"	

HM	V	FC	Ash	BThU
2.5	37.4	50.8	9.3	13,040

	70' 6"	
Coal, bright		3' 1"
	73' 7"	

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')

Cont'd. 80' 0"

Sst. 40' 0"

120' 0"

Shale 11' 0"

131' 0"

BIG BEN SEAM. 2' 8"
8½"
1' 1½"
3' 2"

139' 0"

Sst. 4' 0"

143' 0"

Shale 5' 6"

148' 6"

HM	V	FC	Ash	BThU.
2.6	31.1	50.5	15.8	12,000

131' 0"

Coal, dull w. bright bands, pyritiferous 4' 7"

Coal, bright, pyritif.

135' 7"

HM	V	FC	Ash	BThU.
2.6	33.1	52.1	12.2	12,610

Coal. 3' 5"

139' 0"

COMMONWEALTH OF AUSTRALIA

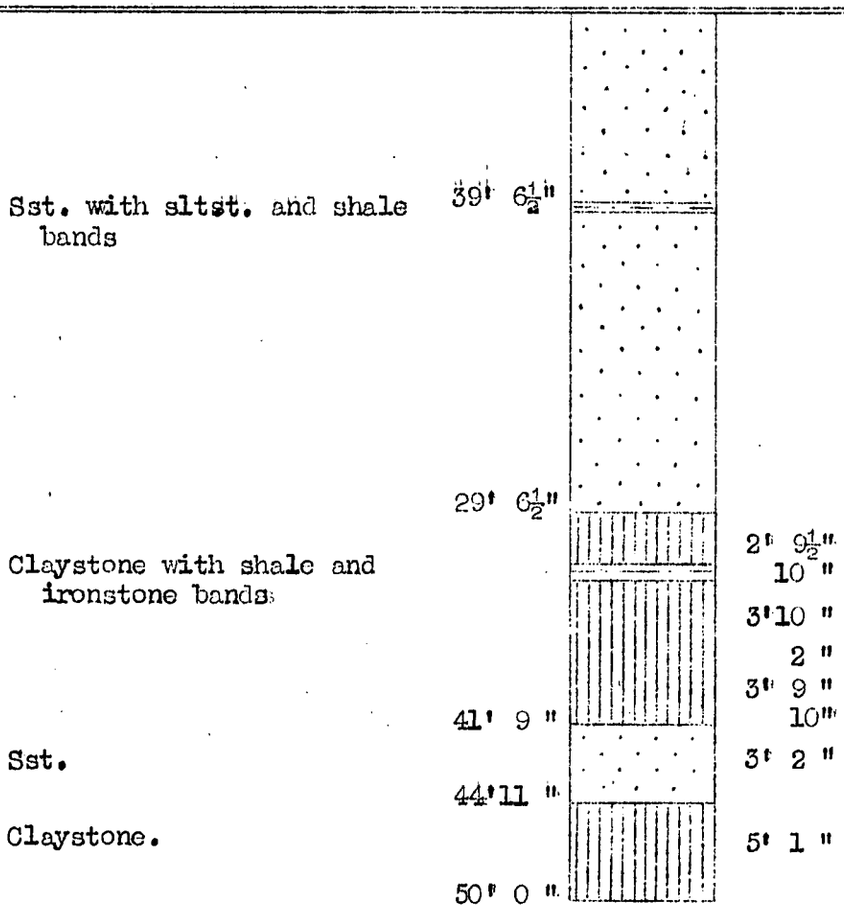
Bureau of Mineral Resources, Geology and Geophysics

Area: Bloomfield Hole No: S18 Elevation: 176.3' ASL

Reference: Plan BMR N14-47. April,1952 Datum: H.W.B.

Begun: 28.1.52 Finished: 31.1.52 Depth: 50' 0 "

STRATIGRAPHIC LOG (1"-10')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Bloomfield Hole No: S 19 Elevation: 180.1' ASL

Reference: Plan BMR N14-82, July,1952 Datum: H.W.B.

Begun: 29.1.52 Finished: 7.2.52 Depth: 170' 0"

STRATIGRAPHIC LOG (1"-10')

Clay	1'6"	1' 6"
Sst.	20' 0"	21' 6"
Clay	8' 0"	29' 6"
DONALDSONS SEAM	1' 6"	37' 9"
Sst.	27' 8½"	65' 8½"
DIG BEN SEAM.	3½"	69' 3"
Sst. w. sltst bands	9' 6"	79' 6"
DIG BEN SEAM	5" 5" 3" 1'1"	83' 1"
Sst.	1'11"	85' 0"

COAL DETAIL (1"-2')

HM	V	FC	Ash	DThU
3.0	29.0	47.6	20.4	10,970

Coal — 29' 6" to 30' 4" — 8"

31' 0"

HM	V	FC	Ash	DThU
2.9	30.7	45.9	20.5	11,180

Coal, dull & bright shaly — 33' 2" to 36' 11" — 3' 9"

Coal, dull, shaly

Coal — 37' 9" — 1½"

Coal — 66' 5½" to 68' 7" — 8½" 11"

Coal, shaly & bright — 79' 6½" — 5"

Coal, dull & bright — 5"

Coal, shaly with bright bands — 3"

Coal — 83' 0" — 1' 1"

Bloomfield . Hole No: S19

STRATIGRAPHIC LOG (1"-10')

Cpmt'd. 85' 0"

Sst. 20' 0"

105' 0"

TOMAGE THIN SEAM 2" 1' 3"

109' 2" 2' 0"

Shale & sst. 10'10"

121' 0"

Sst. 12' 0"

133' 0"

Shale 9' 0"

142' 0"

Sst. 23' 0"

165' 0"

Shale 5' 0"

170' 0"

COAL DETAIL (1"-2')

HM	V	FC	Ash	BThU
2.5	34.7	50.7	12.1	12,710

Coal, dull & bright

105' 0"
105' 5"
1' 3"
106' 8"
107' 2"
Coal
2' 0"
109' 2"

COMMONWEALTH OF AUSTRALIA

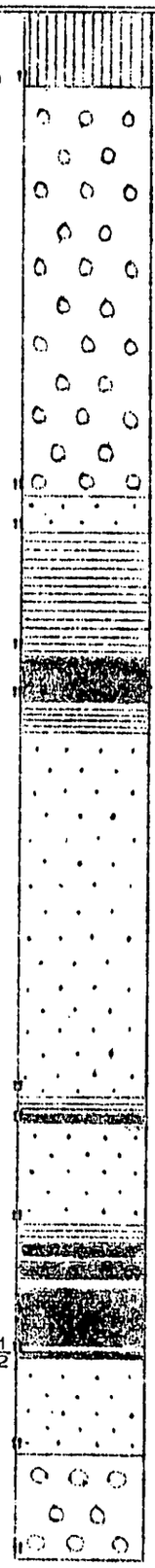
Bureau of Mineral Resources, Geology and Geophysics

Area: Bloomfield | Hole No: S 20 | Elevation: 242.6' ASL

Reference: Plan BMR N14-82, August, 1952 | Datum: H.W.B.

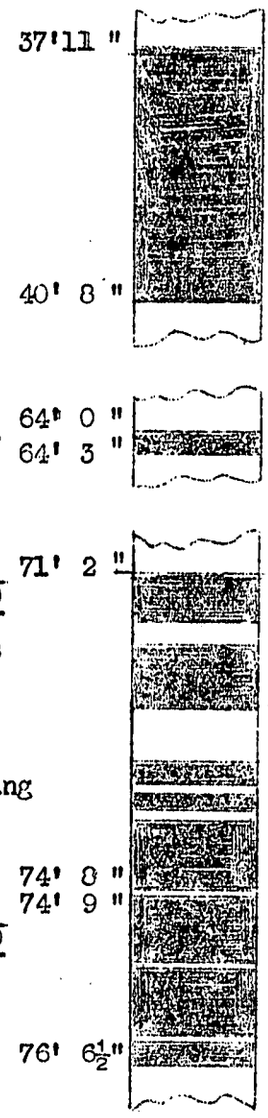
Begun: 3.2.52 | Finished: 7.2.52 | Depth: 180' 0"

STRATIGRAPHIC LOG (1"-10')



Clay	5' 0"	5' 0"
Congl.	23' 0"	23' 0"
Sst.	28' 0"	2' 0"
Shale	30' 0"	7'11"
BUTTAI SEAM.	37'11"	2' 9"
Sst. with shale bds.	40' 8"	20' 6"
Sh. w. coal.	63' 0"	3"
Sst.	64' 8"	5' 4"
DONALDSONS SEAM.	70' 0"	6' 6½"
Sst.	76' 6½"	5' 5½"
Congl.	82' 0"	6' 0"
	88' 0"	

COAL DETAIL (1"-2')



37'11" — Coal, bright with thin vitrain bands — 40' 8" — 2' 9"

64' 0" — Coal, with carb. shale bds. — 64' 3" — 3"

71' 2"

HM	V	FC	Ash	BThU
2.6	27.0	40.8	29.6	9,690

Coal with ½" Bd. of pyrites — 3' 6"

Coal, shaly w. limon.staining

74' 8"

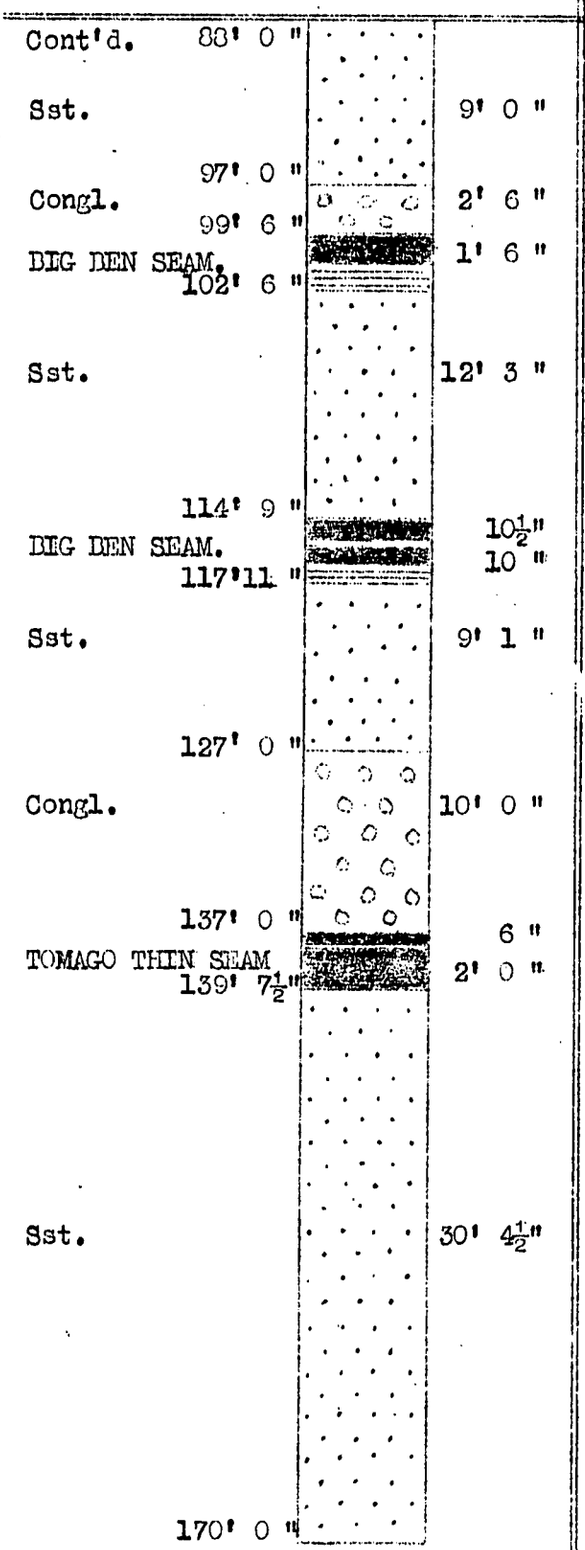
74' 9"

3.0	32.7	43.8	20.5	11,150

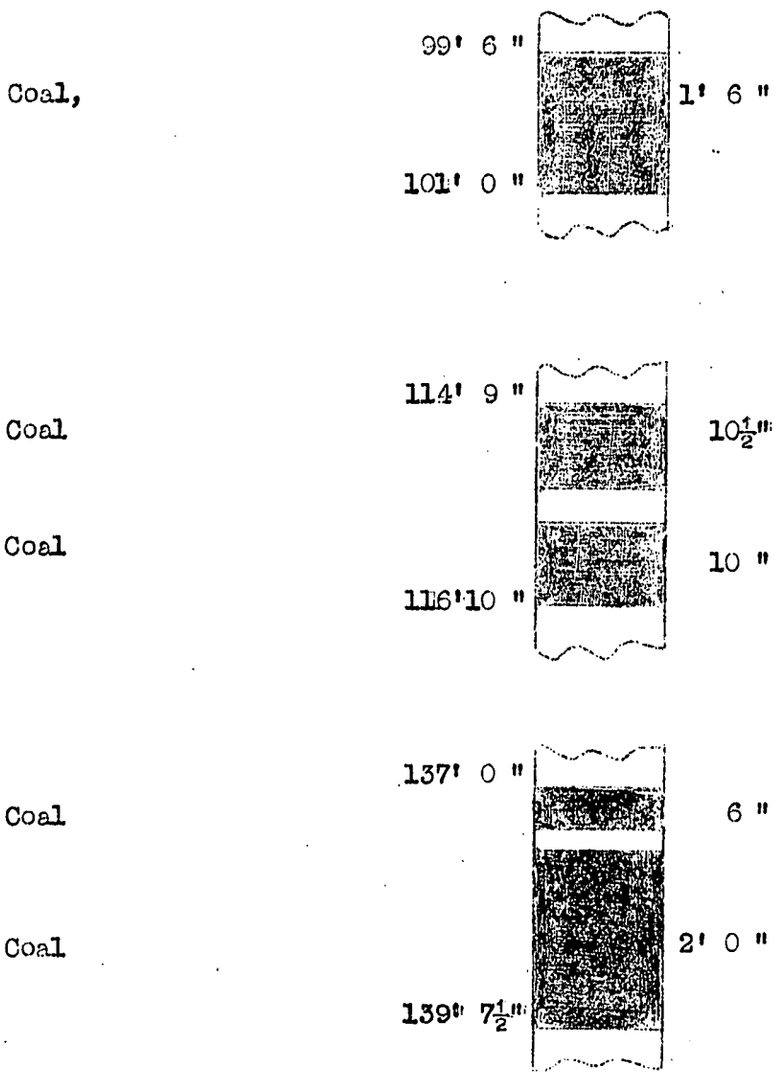
Coal, shaly, iron-stained. — 1' 9½"

76' 6½"

STRATIGRAPHIC LOG (1"-10')



COAL DETAIL (1"-2")



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Bloomfield | Hole No: S22 | Elevation: 238.4' ASL

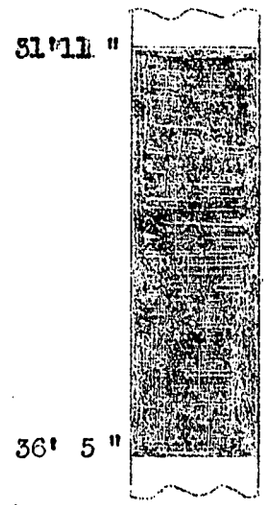
Reference: Plan BMR N14-82 April,1952 | Datum: H.W.B.

Begun: 18.2.52 | Finished: 20.2.52 | Depth: 46' 0"

STRATIGRAPHIC LOG (1"-10')

Clay	3' 0"	3' 0"
Sandstone	20' 4"	17' 4"
Shale	23' 8"	3' 4"
Sst. & coal band	29' 8½"	6' 0½"
Sltst.	31'11"	2' 2½"
DONALDSONS SEAM	36' 5"	4' 6"
Sst.	46' 0"	9' 7"

COAL DETAIL (1"-2')



Coal, and coaly shale. 4' 6"

COMMONWEALTH OF AUSTRALIA

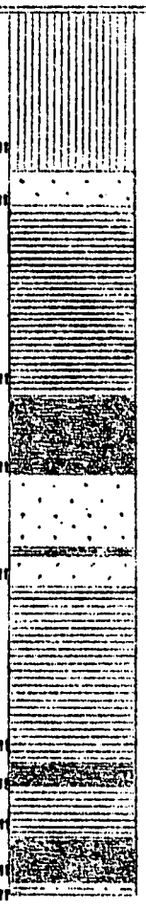
Bureau of Mineral Resources, Geology and Geophysics

Area: Bloomfield | Hole No: S 23 | Elevation: 223.1' ASL

Reference: Plan. BMR N14-82 April,1952 | Datum: H.W.B.

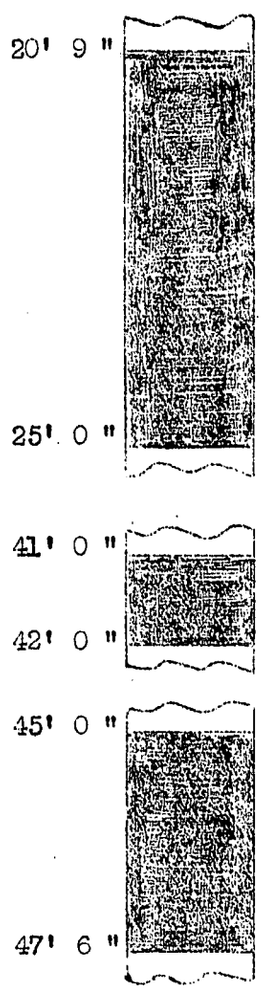
Begun: 18.3.52 | Finished: 19.3.52 | Depth: 47' 8 "

STRATIGRAPHIC LOG (1"-10')



Clay		8' 6 "
	8' 6 "	
Sst.		2' 0 "
	10' 6 "	
Shale		10' 3 "
	20' 9 "	
DIG DEN SEAM.		4' 3 "
	25' 0 "	
Sst. w. coal & shale		6' 0 "
	31' 0 "	
Shale		10' 0 "
	41' 0 "	
TOMAGO THIN SEAM		1' 0 "
	42' 0 "	
Shale		3' 0 "
	45' 0 "	
TOMAGE THIN SEAM.		2' 6 "
	47' 6 "	
Sltst.		2 "
	47' 8 "	

COAL DETAIL (1"-2')



	20' 9 "	
Coal, shaly, weathered.		4' 3 "
	25' 0 "	
	41' 0 "	
Coal, shaly.		1' 0 "
	42' 0 "	
	45' 0 "	
Coal, shaly, crumbly.		2' 6 "
	47' 6 "	

COMMONWEALTH OF AUSTRALIA

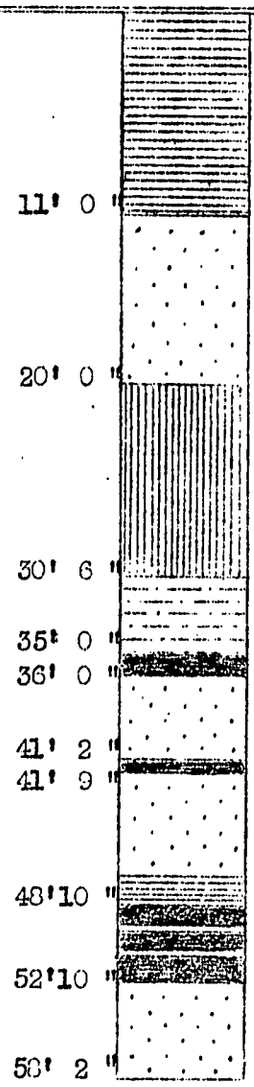
Bureau of Mineral Resources, Geology and Geophysics

Area: Bloomfield Hole No: BMR 31 Elevation: 195.1' ASL

Reference: Plan BMR N14-82, August, 1952 Datum: H.W.B.

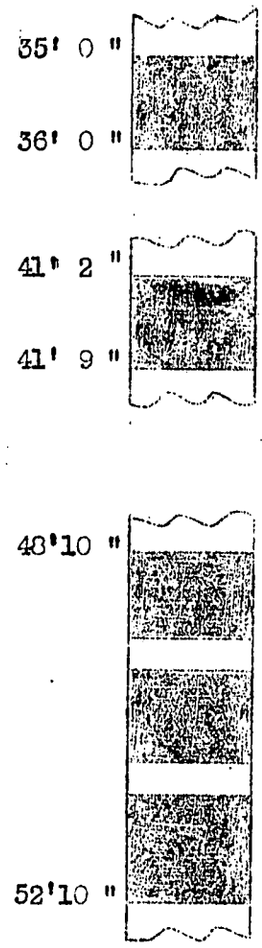
Begun: 21.8.52 Finished: 22.8.52 Depth: 58' 2"

STRATIGRAPHIC LOG (1"-10')



Shale	0' 0" – 11' 0"	11' 0"
Sst.	11' 0" – 20' 0"	9' 0"
Clay	20' 0" – 30' 6"	10' 6"
Sltst.	30' 6" – 35' 0"	4' 6"
Coal	35' 0" – 36' 0"	1' 0"
Sst. & sh.	36' 0" – 41' 2"	5' 2"
Coal	41' 2" – 41' 9"	7"
Sst. & sh.	41' 9" – 48'10"	7' 1"
Coal with shale bands	48'10" – 52'10"	4' 0"
Sst.	52'10" – 58' 2"	5' 4"

COAL DETAIL (1"-2')



Coal, bright	35' 0" – 36' 0"	1' 0"
Coal, bright, frag.	41' 2" – 41' 9"	7"
Coal, dull with bright bds. rather shaly	48'10" – 49'10"	1' 0"
Coal, dull w. bright bands	49'10" – 50' 9½"	11½"
Coal, dull w. bright bands.	50' 9½" – 52'10"	1' 3"

LIST OF ABBREVIATIONS USED IN BORE LOGS.

abundant - A.
agglomerate - aggl.
aggregate - aggr.
angular - ang.
arenaceous - aren.
argillaceous - argill.
arkose (ic) - ark.
anhydrite - anhyd.

band (s) - bd (s)

bentonite - bent.
biotite - bio.
bituminous - bit.
black - bk.
blue - bl.
bottom - bot.
boulder - bldr.
brown - br.
breccia - brcc.
brecciated - brectd.

calcareous - calc.
carbonaceous - carb.
cement - cmt.
chert - cht.
clay - cl.
clayey - cly.
claystone - clst.
clayshale - clsh.
coarse - c.
cobble - cbl.
colour - col.
common - C.
compact - cpt.
composition - comp.
concretion - conc.
conglomerate - cgl.
contaminant (ated) - contm.
crystal - xsl.
crystalline - xln.
contorted - contd.
dark - dk.
dense - d.
distributed - dist.
distribution - distn.
dolomite - dol.

ferruginous - ferr.
fibrous - fib.
fine - f.
fissile - fss.
flint - flt.
formation - fm.
friable - fri.
foraminifera - forams.
fossil(iferous) - foss.
fracture - fract.

frosted - fstd.

glauconite(ic) - glauc.
grain - gr.
granite - grt.
granular - grnl.
grey - gy.
greyish - grish.
green - gn.
greenish - gnish.
greywacke - gw.
gypsum - gyp.

hard - hd.
heavy - hvy.
heterogeneous - hetg.

igneous - ign.
indurated - ind.
inferior - inf.
interbedded - intb.
intraformational - ifml.

jointing - jtng.

kaolin - kaol.

laminated) lam.
laminae)
lamination)
light - l.
limestone - lst.

massive - mass.
marl - ml.
material - mat.
matrix - mtx.

medium - m.
micaceous - mic.
mineral - min.
mottled - mot.

oolith - ool.

pebble (s) - pbl.
pyrite - pyr.
pyritiferous - pyrf.
purple - ppl.

quartz - q.
quartzite - qite.

rare - R.
regular - reg.
residue - res.
round (ed) - rd.
salt and pepper - s & p.
sandstone - sst.
sand - sd.
sandy - sdy.
shale - sh.
shaly - shy.
siltstone - slst.
siderite - sid.
slightly - sl.
siliceous - sil.
soft - s.
streak - strk.

tabular - tab.
thin-bedded - t.bdd.
tuffaceous - tuff.

very - v.
variable - var.

weathered - wd.
white - wh.
with - w.
yellow - y.
yellowish - yish.

The following interpretation is placed on the respective terms when applied to descriptions of cores recovered in coal:-

"broken" - fragments which can be put together to form cylinders, either approximate or actual, but which are not recognisably continuous with an unbroken portion of the same core.

BUREAU OF MINERAL RESOURCES

Name and No. of Bore S1 BLOOMFIELD

DISTRICT Newcastle COUNTY Northumberland PARISH Maitland PORTION 23 LOCATION APPROX. NWCnr.Ptn23/172°/1180'

Surveyed by B.M.R. Survey Method Tel.Alidade Elevation 198.4' Ref. Map BMR Plan N14/82

Logged by M.C.Konecki Cased Not Datum H.W.B. Ref. Report BMR Records 1952/46

Sunk by B.M.R. Type of Drill BMR Fail.750/262 Depth 104' Date Begun/Finished 3.12.51/5.12.51

Estimated Depth Ft.	Ins.	Estimated Thickness Ft.	Ins.	GEOLOGICAL DESCRIPTION OF STRATA	Core Measured Ft.	Ins.	Coal Sample No.	Min. Bands Included Ft.	Ins.	Min. Bands Excluded Ft.	Ins.	PROXIMATE ANALYSIS H.M.	V.	F.C.	ASH	B. TH. U/LB
10	0	10	0	Sandstone l.gr. weathered with bands of clay l.grey												
20	6	10	6	Clayshale, yellowish-light grey with some carb. sh.												
22	6	2	0	Sandstone, carb. clayey, grey with bands of dk.grey carb. shale	1	2										
24	6	2	0	Sandstone, soft, slightly carb. micaceous f. to m.gr.	1	7										
25	6	1	0	Sandstone as before & some clayshale carb.												
26	1½		7½	COAL									DONALDSONS (GMB)			
28	11	2	9½	COAL, partly weathered	2	1										
30	2	1	3	COAL, dull & bright interbedded		8										
31	4	1	2	COAL, mostly bright	1	2										
31	10		6	Sandstone, v.soft to clayey, slightly carb.		5½										
35	2½	3	4½	Sandstone, as before	3	0										
38	7½	3	5	Shale, silty, carb. grey												
42	0	3	4½	Sandstone, grey, coarse-grained												
46	0	4	0	Sandstone as before with bands of carbshale												
48	0	2	0	Shale, carb. grey												
51	0	3	0	Sandstone, grey, banded l.gr. to m.gr.												
70	0	19	0	Sandstone, as above with bands of carbshale												
71	6	1	6	COAL									BIG BEN (GMB)			
73	6	2	0	COAL, mostly bright	1	10½										
73	7		1	COAL, bright		1										
73	9		2	COAL, v. shaly		2										
73	10		1	Shale, coaly		1										
74	5½		7½	Siltstone, carb. banded, grey		7½										
75	4		10½	Sandstone, l.grey, slightly carb. pyrite, v.f.gr.		7½										
79	3	3	11	Sandstone, as before but clayey												
79	5½		2½	COAL, shaly		2½										

Name and No. of Bore S1 BLOOMFIELD

Estimated Depth Ft.	Ins.	Estimated Thickness Ft.	Ins.	GEOLOGICAL DESCRIPTION OF STRATA	Core Measured Ft.	Ins.	Coal Sample No.	Min. Bands Included Ft.	Ins.	Min. Bands Excluded Ft.	Ins.	PROXIMATE ANALYSIS H.M.	V.	F.C.	ASH	B. TH. U/LB
81	10	2	4½	COAL, mostly bright	2	4½										
82	11½	1	1½	COAL, mostly bright, pyritiferous	1	1½										
83	0½		1	Siltstone, brownish-grey, carb. hard		1										
83	1½		1	COAL		1										
83	2½		1	Sandstone, dk.grey, carb. v.f.gr.		1										
84	3½	1	1	COAL, bright, pyritiferous	1	1										
84	8½		5	COAL, bright		5										
85	3½		7	Sandstone, black, carb. pyritif. f.gr.		4										
87	9½	2	6	Sandstone, dk.grey, carb. pyritif,v.f.gr.	2	6										
88	4		6½	COAL, bright		6½										
88	8		4	Shale, carb. black		4										
89	0		4	Siltstone, carb. black		4										
94	0	5	0	Sandstone, carb. f. to m.gr. with bands of carb. shale												
104	0	10	0	Sandstone, grey, carb., coarse-grained												
				Hole completed.										typed 10.11.52		

BUREAU OF MINERAL RESOURCES — Name and No. of Bore: Bloomfield S2.

DISTRICT: Newcastle COUNTY: Northumberland PARISH: Maitland PORTION: 97 APPROX. LOCATION: NW Cnr. 23/114°/760'
SURVEYED BY: BMR SURVEY METHOD: Tel. Alidade ELEVATION: 191.0' REF.MAP: REF. MAP: BMR Plan N14/82
LOGGED BY: M.C. Konecki CASED: NOt DATUM: HWB REF.REPORT: BMR Records 1952/46
SUNK BY: BMR TYPE OF DRILL: Failing 750/263 DEPTH: 111'1" DATE BEGUN/FINISHED: 4/12/51-6/12/51

Est. Depth Ft.	Ins.	Est. Thick. Ft.	Ins.	Geological description of strata	Core Measured Ft.	Ins.	Coal Sample No.	Min. Bands Included Ft.	Ins.	Min. Bands Expluded Ft.	Ins.
5	0	5	0	Clay, sandy, pinkish							
12	0	7	0	Clay, mottled pink and grey							
20	0	8	0	Sandstone, pinkish-brown, m. to f. gr.							
30	0	10	0	Shale, clayey, dark grey with trace of coal							
34	6	4	6	Sandstone, v.c. gr. with bands of carb. shale and traces of coal							
35	2		8	COAL, bright		8	1/S2				
35	3		1	COAL, very shaly		1					
35	5½		2½	Clay, shale, carb., and coaly shale, interbd.		2½				2½	
35	10½		5	COAL, bright		5					
38	6	2	7½	COAL, soft, powdery		8					
39	2		8	COAL, as before							
39	6½		4½	Shale, carb.		4½					
39	8		1½	Shale, carb. soft		1½	2/S2				
39	9½		1½	COAL, bright		1½					
39	11		1½	COAL, powdery		1½					
40	0½		1½	COAL, bright		1½					
41	2	1	1½	Clay-shale, carb., black, soft		2					
42	2	1	0	Clay-shale, carb., dark grey	1	0					
43	2	1	0	Siltstone, dark grey, carb. & micae.		9					
49	9	5	10	Clay-shale, carb., grey							
49	5		5	Sandstone, banded l. grey to dk. grey, carb. v. f. gr.		5					
50	0		7	Sandstone, as above, but m.gry. & clayey		6					
60	6	10	6	Clay-shale, dk. grey, carb.							
62	3	1	9	COAL, shaly							
64	3	2	0	COAL (?) (Splint)	1	9					
64	5½		2½	Coal, shaly, soft		2½					
64	10½		5	Clay, yellowish, soft		5					

Refer BMR Records 1952/46 for coal analyses

Name and No. of Bore S2 BLOOMFIELD

Estimated Depth Ft.	Ins.	Estimated Thickness Ft.	Ins.	GEOLOGICAL DESCRIPTION OF STRATA	Core Measured Ft.	Ins.	Coal Sample No.	Min. Bands Included Ft.	Ins.	Min. Bands Excluded Ft.	Ins.	PROXIMATE ANALYSIS H.M.	V.	F.C.	ASH	B.TH.U/LB
65	2		3½	Siltstone, dk. grey, carb., very hard		3½										
66	3	1	1	Sandstone, grey, carb. v.f.gr. m.hard		8										
80	0	13	9	Sandstone, grey, m.to c.gr. with bands of carb. shale												
92	0	12	0	Sandstone, grey. c.gr.												
93	0	1	0	Siltstone, dk.grey, carb., with thin bands of coal		11½										
94	8	1	8	Sandstone, grey, v.fgr., with plant remains		7										
95	0		4	Sandstone, as before		4										
96	3	1	3	Sandstone, as before	1	3										
96	5		2	Clay-shale, dk.grey, carb.		2										
97	0		7	Siltstone, silicified, hard, dk.grey,carb.		4										
98	1	1	1	Siltstone, grey, v.hard, with fine plant detrites	1	1										
99	0		11	Shale, silty, fine plant detrites, grey		11										
99	7½		7½	Shale, sandy, grey, carb.		7½										
100	6½		11	Sandstone, grey, f.gr.cross bedded		11										
101	0		5½	Shale, silty, grey carb.		3										
103	1	2	1	Siltstone, dk.grey, carb., v. hard	2	0										
103	4		3	Siltstone, as before		3										
105	1	1	9	Shale, carb, dk.grey, with plant remains	1	9										
106	0		11	Shale, as before		11										
106	4		4	Siltstone, dk.grey, carb. with plant remains.		4										
107	0		8	Shale, carb. dk.grey		8										
107	1		1	Sandstone, dk.grey, banded, f.to m.gr.		1										
108	2½	1	1½	Sandstone, as before	1	1½										
108	6½		4	Shale, carb. soft		4										
109	1		6½	Sandstone, as before		6½										
111	1	2	0	Sandstone, grey & l.grey, C.gr. hard, with plant remains	2	0										
				All depths in this hole were measured from rotary table height which is 1'4" above ground level												
				Hole completed.												

Typed 9.9.1952.

BUREAU OF MINERAL RESOURCES — Name and No. of Bore: S3 BLOOMFIELD.

DISTRICT: Newcastle COUNTY: Northumberland PARISH: Maitland PORTION: 29 APPROX. LOCATION: NW Crn.Port.29/170°/1300'

SURVEYED BY: BMR. SURVEY METHOD: Tel.Alidade ELEVATION: 201.4' REF. MAP: BMR Plan N14/82

LOGGED BY: M.C.Konecki CASED: Not DATUM: H.W.B. REF. REPORT: BMR Records 1952/46

SUNK BY: BMR TYPE OF DRILL: Failing 750/262 DEPTH: 170' DATE BEGUN/FINISHED: 15.12.51/11.12.51

Est. Depth Ft.	Ins.	Est. Thick. Ft.	Ins.	Geological Description of Strata	Core Measured Ft.	Ins.
5	0	5	0	Clay, white, with traces of coal		
11	0	6	00	Clay, mottled, pink and l. grey		
18	6	7	6	Sandstone, brown f. to m. grained		
29	6	11	0	Shale, dk. grey		
39	0	9	6	Sandstone, m.gr. grey with bands of grey shale		
39	4½		4½	Clay, white		
39	7		2½	Shale, black, carb. soft.		2½
39	11½		4½	COAL, bright		4½
40	0		½	Shale, dark grey, carb.		0½
40	2		2	COAL, bright		2
41	1½		11½	Sandstone, grey and l. grey. slightly carb. f. gr. gr.		4
41	2		½	Sandstone, as before		½
41	4½		2½	Shale, black, carb. soft.		2½
41	11		6½	Siltstone, dk. grey, carb.		6½
43	6	1	7	Sandstone, l. grey, slightly carb. c. gr. friable	1	7
45	0	1	6	Sandstone, l. grey. f. gr. with some carb. shale		
55	0	10	0	Shale, dk. grey, carb. with some sandstone as before but grey		
66	0	11	0	Shale, dk. grey to black carb. soft clayey		
66	4		4	Shale, coaly, soft		4
67	5	1	1	COAL (?) (Splint) with laminae of carb. shale, pyritiferous	1	1
68	0		7	Shale, clayey, grey, with plant remains		3½
68	1		1	COAL (?) (splint)		1
68	9½		8½	Shale, carb. soft		8½
68	10½		1	COAL, bright		1
69	1		2½	Siltstone, grey, carb. hard		2½
69	4½		3½	Shale, silty carb.		3½
69	5½		1	COAL, bright		1

Name and No. of Bore S.3 BLOOMFIELD.

Estimated Depth Ft.	Estimated Depth Ins.	Estimated Thickness Ft.	Estimated Thickness Ins.	GEOLOGICAL DESCRIPTION OF STRATA	Core Measured Ft.	Core Measured Ins.	Coal Sample No.	Min. Bands Included Ft.	Min. Bands Included Ins.	Min. Bands Excluded Ft.	Min. Bands Excluded Ins.	PROXIMATE ANALYSIS H.M.	V.	F.C.	ASH	B. TH. U/LB
70	0		6½	Shale, dk. grey, carb., with coal laminae		2½										
70	0½		½	COAL, bright		½										
71	0		11½	Shale, grey carb., soft, with plant remains		10½										
73	0	2	0	Siltstone, grey with plant remains	1	9										
78	0	5	0	Sandstone, grey carb., with dk. grey carb. shale												
85	0	7	0	Shale, carb. dk. grey												
100	0	15	0	Sandstone, grey and l. grey fr. gr. clayey, banded with dk. grey carb. shale, soft												
105	0	5	0	Shale dk. grey, carb. soft												
135	0	30	0	Sandstone, grey and l. grey fi. to m.gr. friable med, hard, with bands of carb. shale, dk. grey												
160	0	25	0	Mostly sandstone as before												
165	0	5	0	Sandstone, grey carb. m. to C. gr. friable												
170	0	5	0	Sandstone, as before with some carb. shale.												
				Hole completed.	Typed.		10.11.52.									

BUREAU OF MINERAL RESOURCES.

BORE: S.4 BLOOMFIELD.

DISTRICT Newcastle COUNTY: Northumberland PARISH: Maitland PORTION: 19 APPROX. LOCATION: NECnr.Ptn.19/235°/710'

SURV.BY: B.M.R. METHOD: Tel. Alidade ELEVATION: 132' REF.MAP: B.M.R. Plan N.14/82.

LOGGED: M.C. Konecki CASED: Not DATUM: H.W.B. REF.REPORT: B.M.R. Records 1952/46.

SUNK BY: B.M.R. DRILL: Failing 750/263 DEPTH: 94' DATE BEGUN/FINISHED: 10.12.51/12.12.51

Est. Depth Ft.	Ins.	Est. Thickness Ft.	Ins.	Lithology	Core Ft.	Ins.	Sample No.	Bands Excl. Ft.	Ins.	Bands Excl. Ft.	Ins.	Proximate Analysis H.M.	V.	F.C.	ASH	B.TH.U/LB.
15	0	15	0	Clay, mottled, brown, pink and l.grey with some fine conglom.												
25	0	10	0	Clay, brown												
30	0	5	0	Clay as before and some ferriginous sandst. c. gr.												
59	0	19	0	Sandstone, brownish-grey, clayey, m. gr. friable.												
59	4		4	Sandstone, grey, carb. f. gr. with bands of carb. shale dr. grey					4							
59	7		3	Shale, grey, carb. with plant remains					3							
61	0	1	5	Sandstone as before	1				4							
63	0	2	0	Sandstone as before	1				10							
65	0	2	0	Sandstone as before												
65	4		4	Sandstone, dk. grey, r.f.gr., carb., hard banded with carb. sh.					4							
65	8		4	Shale, dk. grey, carb. soft					4							
65	10		2	Sandstone as before					2							
66	0		2	Shale as before					2							
67	0	1	0	Sandstone as before but with plant remains and leaves					8							
69	0	2	0	Sandstone as before												
69	3		3	COAL, dull and bright interbedded					3			BIG BEN G.M.B.				
69	4		1	Shale, carb.					1	1/S.4						
71	0	1	8	COAL, bright					10½	69'-72'		1"				
73	0	2	0	COAL, mostly bright	1				6							
73	3		3	COAL, dull, shaly					3	2/S.4						
74	4	1	1	COAL, mostly bright	1				1	72-75'						
74	5		1	Shale, black, carb. soft					1							
74	7½		2½	COAL, dull					2½							
74	8½		1	COAL, bright					1							
74	9		½	Shale, carb.					½							
75	0		3	COAL						3/S.4 75'-78'						

Name and No. of Bore S.4 BLOOMFIELD.

Estimated Depth Ft.	Ins.	Estimated Thickness Ft.	Ins.	GEOLOGICAL DESCRIPTION OF STRATA	Core Measured Ft.	Ins.	Coal Sample No.	Min. Bands Included Ft.	Ins.	Min. Bands Excluded Ft.	Ins.	PROXIMATE ANALYSIS H.M.	V.	F.C.	ASH	B. TH. U/LB
76	0	1	0	COAL, mostly bright, pyritiferous		8½										
76	7½		7½	COAL, mostly bright		7½										
76	8		½	Siltstone, brownish-grey, carb. and pyritif.		½										
78	0	1	4	COAL, dull and bright		10½	4/S.4									
78	8½		8½	COAL, bright		8½	78'-78'9"									
78	11½		3	Shale, carb. with thin bands of coal		3										
79	6		6½	Shale, black, carb., soft		6½										
80	0		6	COAL, bright		3½										
80	1½		1½	COAL, bright		1½										
80	2½		1	Siltstone, carb.		1										
80	5½		3	Shale, carb., soft		3										
81	2½		9	Sandstone, brey, carb., f.gr., cross-bedded		9										
82	0		9½	Shale, dk. grey, carb. soft, with plant remains		8										
82	6½		6½	Sandstone, brey, carb., v. f.gr., hard		6½										
82	11½		5	Siltstone, dk. grey, carb. to micae		5										
83	4½		5	Shale, dk. grey, carb. soft		5										
84	0		7½	Sandstone, brey, carb. f.gr. friable		7½										
85	2	1	2	Sandstone as before												
85	8		6	COAL												
85	11		3	COAL, bright		3										
86	3½		4½	Sandstone, brey f.gr. banded with carb. shale		4½										
86	10½		7	Sandstone, l. grey, carb., m.gr.to c.gr. friable		7										
88	0	1	1½	Sandstone as before but with bands of carb. shale		4										
90	0	2	0	Sandstone as before	2	0										
94	0	4	0	Sandstone, l. grey, f. gr., with carb shale bands												

Hole completed

typed. 10.11.52.

BUREAU OF MINERAL RESOURCES.

BORE: S5 BLOOMFIELD

DISTRICT: Newcastle COUNTY: Northumberland PARISH: Maitland PORTION: 23 APPROX. LOCATION: SWCnrPtn23/43°/230'

SURV.BY: B.M.R. METHOD: Tel.Alidade ELEVATION: 206' REF.MAP: BMR Plan N14/82

LOGGED: M.C.Konecki CASED: Not DATUM: H.W.B. REF. REPORT: BMR Records 1952/46

SUNK: B.M.R. DRILL: Failing 750/262 DEPTH: 125' DATE BEGUN/FINISHED: 12.12.51/14.12.51

Est. Depth Ft.Ins.	Est. Thickness Ft.Ins.	Lithology	Core Ft.Ins.	Sample No.	Bands Incl. Ft.Ins.	Bands Excl. Ft.Ins.	Proximate Analysis H.M.	V.	F.C.	ASH	B.TH.U/LB.
5 0	5 0	Conglomerate, fine, ferruginous with mottled clay									
10 0	5 0	Conglomerate, fine to c.gr. brown									
21 0	11 0	Sandstone, v.c.gr. l.brown, clayey									
25 6	4 6	Clay, brownish-grey									
26 0	6	Sandstone, m.grained, grey									
26 8	8	COAL									
28 0	1 4	Shale, sandy, soft. carb.									
28 1½	1½	Shale as before with thin coal bands				1½					
28 8	6½	Shale, dk.grey, carb. soft				6½					
28 11½	3½	COAL with clayshale dk. grey, carb.				3½					
29 1½	2	Clayshale, brownish grey with thin coal bands				2					
29 7½	6	Shale, carb. black with thin coal bands				6					
30 8	1 0½	Sandstone, grey, carb. & micac. clayey f.gr.				3					
31 9½	1 1½	Sandstone as before	1			0					
32 3	5½	Sandstone, grey carb. & micac. clayey v. soft. m.gr.				5½					
47 0	14 9	Clayshale, grey, carb. soft									
48 0	1 0	Shale, dk.grey, carb. with coal bands									
48 1	1	Shale, dk.grey, carb.				1					
48 4	3	Clayshale, off-white, soft				3					
48 9	5	Shale, dk.grey, carb. with bands of coal				5					
49 4½	7½	Sandstone, f.gr. grey v. clayey banded w. carb. sh.				7½					
50 0	7½	Shale, sandy, grey, carb with thin coal bands				2					
50 3	3	Clay, white				3					
50 7½	4½	Clay, shale, grey, soft with plant rems.				4½					

Name and No. of Bore S5 BLOOMFIELD

Estimated Depth Ft.	Estimated Depth Ins.	Estimated Thickness Ft.	Estimated Thickness Ins.	GEOLOGICAL DESCRIPTION OF STRATA	Core Measured Ft.	Core Measured Ins.	Coal Sample No.	Min. Bands Included Ft.	Min. Bands Included Ins.	Min. Bands Excluded Ft.	Min. Bands Excluded Ins.	PROXIMATE ANALYSIS H.M.	V.	F.C.	ASH	B. TH. U/LB
50	9½		2	COAL		2	1/S5						DONALDSON'S (GMB)			
50	10½		1	Clayshale as before		1										
51	0½		2	Clayshale, dk.grey, carb. with thin coal bds		2					1½					
52	0		11½	COAL with carb. shale bands		3					5½					
54	0	2	0	COAL, mostly bright	1	6					3					
55	6	1	6	COAL, as before	1	1	2/S5									
55	9		3	COAL, shaly		3										
57	0	1,	3	COAL, mostly bright	1	0										
58	8	1	8	Sandstone, grey, carb. micac. v.clayey & soft	1	4										
60	6	1	10	Sandstone as before	1	4½										
75	0	14	6	Sandstone as before												
90	2	15	2	Sandstone. l.grey, f. to m.gr. with carb. shale dk.grey												
90	7		5	Clay, grey, carb. soft		5										
91	3		8	COAL, bright & dull interbedded		8							BIG BEN (GMB)			
92	11	1	8	Shale, carb. soft												
93	7½		8½	Shale, dk.grey. carb. & pyritif. soft		8½										
94	0		4½	Sandstone. l.grey, carb. & micac. f.gr.		4½										
98	0	4	0	Sandstone as before with bands of carb.sh. dk.grey												
98	5		5	Sandstone, brownish-grey, m. to c.gr. with plant remains		5										
99	0		7	COAL, bright & dull interbedded		7										
99	1		1	Clayshale, brownish-grey, soft		1										
100	0		11	COAL, bright		3½										
100	0½		½	Shale, black, carb.		½										
101	1	1	0½	COAL, bright & dull		7½										
101	10½		9½	COAL, bright & dull with thin bands of carb. shale		9½										
103	1	1	2½	Shale, carb. soft												
105	1	2	0	Siltstone, dk.grey, carb. soft	1	3										
106	4	1	3	Siltstone, dk.grey, carb. micac. m.hard	1	3										
107	5	1	1	Shale, dk.grey, carb. sandy, micac.		11										
120	0	12	7	Sandstone, grey, carb. f.gr. with bands of carb. shale												
125	0	5	0	Shale, grey, carb.												
				Hole completed												

typed 11.11.52

BUREAU OF MINERAL RESOURCES

BORE: S6 BLOOMFIELD

DISTRICT: Newcastle COUNTY: Northumberland PARISH: Maitland PORTION 20 APPROX 1.ECnrPtn20/277°/1270'

SURV.BY: B.M.R. METHOD: Tel.Alidade ELEVATION 133' REF. MAP: BMR Plan N14/82

LOGGED: M.C.Konecki CASED: --- DATUM: H.W.B. REF.REPORT: BMR Records 1952/46

SUNK BY: B.M.R. DRILL: Failing 750/263 DEPTH: 149'9" DATE BEGUN/FINISHED: 15.12.51/17.12.51

Est. Depth Ft.Ins.	Est. Thickness Ft.Ins.	Lithology	Core Ft.Ins.	Sample No. Ft.Ins.	Bands Incl. Ft.Ins.	Bands Excl. Ft.Ins.	Proximate Analysis H.M. V. F.C. ASH B.THU/LB.
14 0	14 0	Clay, mottled, pink & light grey					
20 0	6 0	Sandstone, c.grained, grey					
32 0	12 0	Conglomerate, grey, medium					
33 6	1 6	Shale, grey, carb. with coal bands					
34 2½	8½	Shale as before with coal bands		8½			
34 6½	4	Clay, yellowish-l.grey, sandy		4			
34 8	1½	COAL, bright		1½			
35 6	10	Clayshale, grey, with plant remains		4			
37 6	2 0	Sandstone, grey, v. clayey & soft. carb. & micac.	2 0				
39 6	2 0	Sandstone as before m.grained					
40 0	6	COAL					
40 9	9	Clayshale, grey with plant remains		9			
42 0	1 3	Sandstone, grey, v.clayey & soft m.gr. micac. & carb.	1 3				
42 6	6	COAL				1/S6	DONALDSON'S (GMB)
42 7½	1½	Shale, grey, carb. silty, pyritif.		1½		42'6"-45'6"	
43 5½	10	COAL, bright		10			
43 6	½	Shale, carb. pyritif.		½			
44 6	1 0	COAL, bright	1 0				
46 1	1 7	COAL, bright	1 7			2/S6	
46 6	5	Shale, carb. dk.grey, sandy & pyritif. with coal bands		4		45'6"-48'6"	
48 4	1 10	COAL, mostly bright	1 10				
48 6	2	Sandstone, v.soft & clayey, f. to m.gr. laminated with dk.grey carb. shale		2			
50 6	2 0	Sandstone, soft & clayey carb. & micac. f. to m.gr.	2 0				
71 0	19 6	Sandstone as before					
75 0	4 0	Sandstone, grey f.gr. with carb. shale bands					
85 0	10 0	Sandstone, grey m. to c.gr. with carb. shale bands					

Name and No. of Bore S6. BLOOMFIELD.

Estimated Depth Ft.	Ins.	Estimated Thickness Ft.	Ins.	GEOLOGICAL DESCRIPTION OF STRATA	Core Measured Ft.	Ins.	Coal Sample No.	Min. Bands Included Ft.	Ins.	Min. Bands Excluded Ft.	Ins.	PROXIMATE ANALYSIS H.M.	V.	F.C.	ASH	B. TH. U/LB
110	0	25	0	Sandstone as before but m. gr. with carb. shale												
115	0	5	0	Shale, carb. dk. grey.												
125	0	10	0	Sandstone, l. grey, f. gr. with bands of carb. shale												
129	0	4	0	Siltstone, grey carb.												
129	6		6	COAL				3/S6					BIG BEN (GMB)			
131	6	2	0	COAL, bright	1	5		129'6"-132'6"								
131	8		2	COAL, with carb. shale thin bands		2										
131	10		2	COAL, bright		2		4/S6								
132	1⅓		3⅓	COAL, with thin bands of soft carb. shale		3½		132'6"-135'6"								
133	6	1	4⅓	COAL, bright	1	2										
134	4		10	COAL, bright		10										
134	6⅓		2⅓	Shale, black, carb. soft with thin coal bands.												
134	11⅓		5	COAL, bright		5										
135	⅓		1	Shale, carb. soft.		1		5/S6								
135	6		5⅓	COAL, bright		1½		135'6"-137'6"								
135	10		4	COAL, bright		4										
135	10⅓		⅓	Shale, dk. grey, carb. soft		⅓										
136	0		1⅔	COAL, bright		1⅓										
136	0½		⅓	Brownish-grey, dense, v. hard rock (unidentified)		⅓		6/S6								
137	6	1	5⅓	COAL	1	0		137'6"-139'6"								
137	8		2	Shale, carb. with thin coal bands		2										
139	0	1	4	COAL, with occasional thin shale bands		8										
139	5		5	COAL, with shaly bands		5										
139	7		2	Shale, dk. grey, carb. soft		2										
140	0		5	Sandstone, carb. v.f. gr. micac. & pyritif.		5										
140	2		2	Shale, carb. soft		2										
140	3		1	Sandstone, carb. f. gr.		1										
141	6⅓	1	3⅓	Siltstone, carb. dk. grey, micac.	1	3½										
143	0	1	5⅓	Shale, carb., dk. grey		9										
145	0	2	0	Siltstone, dk. grey, carb. & micac	2											
145	10		10	Sandstone, grey, carb. m. to c. gr.		10										
147	0	1	2	Siltstone, carb. dk. grey with 1" coal band at bottom		2⅓										

Name and No. of Bore S6 BLOOMFIELD.

Estimated Depth Ft.	Ins.	Estimated Thickness Ft.	Ins.	GEOLOGICAL DESCRIPTION OF STRATA	Core Measured Ft.	Ins.	Coal Sample No.	Min. Bands Included Ft.	Ins.	Min. Bands Excluded Ft.	Ins.	PROXIMATE ANALYSIS H.M.	V.	F.C.	ASH	B.TH.U/LB
147	1½		1½	COAL, bright		1½										
148	4½	1	3	Sandstone, carb, grey, with carb. shale bands	1	3										
149	9	1	4½	Sandstone, grey, carb. m. to c. gr. m. hard	1	0										
				Hole completed.												

Typed 12.11.52.

BUREAU OF MINERAL RESOURCES

S7. BLOOMFIELD.

DISTRICT: Newcastle COUNTY: Northumberland PARISH: Stockrington PORTION: 26 LOCATION: APPROX. NECnr.Ptn.26/219°/530'

SURVEYED: B.M.R. METHOD: Tel Alidade ELEVATION: 163' REF. MAP : BMR. Plan N14/82.

LOGGED: M.C. Konecki CASED: - DATUM: H.W.B. REF. REPORT: BMR. Records 52/46.

SUNK BY: B.M.R. DRILL: Failing 750/262 DEPTH: 120'2" DATE BEGUN/FINISHED: 24.12.51/18.12.51.

Est. Depth Ft.Ins.	Est. Thickness Ft.Ins.	Lithology	Core Ft. Ins.	Sample No.	Bands Incl. Ft.Ins.	Bands Incl. Ft.Ins.	Proximate Analysis H.M. V. F.C. ASH B.TH.U/LB.
20 0	20 0	Conglomerate, brown, partly ferruginous					
24 6	4 6	Conglomerate as before and sandstone c. gr.					
25 0	6	COAL					
26 2	1 2	Conglomerate, fine	1	2			
32 0	5 10	Clay & shale, grey					
32 2	2	COAL					
32 4⅓	2½	COAL		2½			
32 6⅓	2	Snale, coaly, black, soft		2			
34 2	1 7⅓	COAL		5⅓			
34 7½	5½	COAL with carb. shale - bands		5½			
34 9	1½	Clay-shale, brownish-grey		1½			
34 11	2	COAL		2			
36 2	1 3	Shale, sandy, grey, carb. micac., soft		3½			
45 0	8 10	Clay-shale, grey, carb. with thin coal bands					
50 3	5 3	Sandstone, grey, carb. f.gr. with a thin band of brownish grey, dense, v. hard rock. (ironstone).					
50 7	4	COAL, bright		4			
50 8	1	Very hard dense rock, grey (clay-ironstone).		1			
51 9	1 1	Sandstone, grey, carb. clayey, f.gr.		4			
51 10	1	COAL, shaly		1			
52 3	5	Sandstone, l. grey, c.gr.m. hard friable		4			
57 4	5 1	Sandstone, l. grey, carb. f. to m. grd.					
57 9	5	Siltstone, grey, micac. & carb. soft		5			
58 4⅓	7⅓	Shale, dk. grey, carb. & micac		7½			
58 6⅓	2	COAL, rather shaly		2			
58 8	1½	Shale, sandy, carb. & micac		1½			
59 1½	5½	Shale, carb. black, coaly, pyritif		2			
61 1½	2 0	COAL, mostly bright	1	1			
62 6	1 4½	COAL, mostly bright		4			

DONALDSONS (GMB)

Name and No. of Bore S7. BLOOMFIELD.

Estimated Depth Ft.	Ins.	Estimated Thickness Ft.	Ins.	GEOLOGICAL DESCRIPTION OF STRATA	Core Measured Ft.	Ins.	Coal Sample No.	Min. Bands Included Ft.	Ins.	Min. Bands Excluded Ft.	Ins.	PROXIMATE ANALYSIS H.M.	V.	F.C.	ASH	B.TH.U/LB
62	7½		1½	Shale, sandy, carb. dk. grey soft		1½										
63	2½		7	Sandstone, f. to m.gr. banded with carb. shale		7										
63	6½		4	COAL, bright		4										
53	7		½	Shale, carb. black, soft		½										
64	3		8	Sandstone, f. gr. clayey, micac, with thin coal bands		2										
74	0	9	9	Sandstone, grey, carb. v. soft & clayey, f. gr.												
79	0	5	0	Sandstone, grey, carb. f.gr. with carb. shale bands												
84	0	5	0	Shale dk. grey carb., soft												
90	0	6	0	Sandstone, grey carb. f.to m. gr. with carb. shale bands.												
99	8	9	8	Shale, carb. dk. grey with few bands of sandstone f.gr. carb.												
100	2		6	COAL												
100	3½		1½	Clay, grey. carb. soft		1½										
100	7		3½	COAL, bright		3½										
100	9		2	Siltstone, carb. dk. grey micac		2										
101	6		9	Sandstone, l. grey, f.gr. carb. micac		2½										
101	10½		4½	Sandstone, f.gr.l.grey, banded with carb shale		4½										
103	0	1	1½	Sandstone, f.gr. to m. gr. l. grey micac	1	1										
104	0	1	0	COAL			1/S7						BIG BEN			
108	6	4	6	Coal with bands of carb. shale & sandstone, f.gr.				108'6"-111'10"								
109	8	1	2	COAL, mostly bright	1	2										
110	0		4	Sandstone, brown & pyritif c. gr.		½										
110	8		8	COAL												
110	9½		1½	COAL		1½										
110	10		½	Shale, brown, carb.		½										
111	7		9	COAL, mostly bright		9										
112	2		7	Shale, coaly, black brown		7										
112	9		7	COAL, shaly & pyritif		1½										
115	2	2	5	Siltstone, dk. grey, carb. with plant remains	2	5										
120	2	5	0	Shale, grey, carb.												
				Hole completed				Typed 12.11.52.								

BUREAU OF MINERAL RESOURCES. S8 BLOOMFIELD

DISTRICT: Newcastle COUNTY: Northumberland PARISH: Maitland PORTION: 20 APPROX. LOCATION: SECnrPtn20/277°/1270'

SURV. BY: B.M.R. METHOD: Tel.Alidade ELEVATION: 131' ASL REF. MAP: BMR Plan N14/82

LOGGED: M.Konecki/G.Thomas CASED: --- DATUM: H.W.B. REF. REPORT: BMR Records 1952/46

SUNK: B.M.R. DRILL: Failing 750 DEPTH: 173' DATE BEGUN/FINISHED 19.12.51/10.1.52

Est. Depth Ft.	Ins.	Est. Thickness Ft.	Ins.	Lithology	Core Ft.	Ins.	Sample No.	Bands Incl. Ft.	Ins.	Bands Excl. Ft.	Ins.	Proximate Analysis H.M.	V.	F.C.	ASH	B.THU/LB.
5	0	5	0	Clay, mottled red and grey												
21	0	16	0	Conglomerate, ferruginous												
21	3		3	COAL												
21	10		7	COAL, bright			2									
22	6		8	Shale, sandy carbonaceous, micaceous dk.gy.			8									
23	3		9	Sandstone f.gr. dark grey micac; banded w. carb. sh.			9									
25	0	1	9	prob. s.s.												
30	5	5	5	Sandstone v. coarse gr. to fine conglom. grey with carb. shale bands												
30	8		3	Siltstone dk.grey, carbonaceous in part			1									
30	11		3	COAL, shaly			1									
31	6		7	COAL, bright			3									
31	9½		3½	Sandstone m.grd. grey micaceous & carbon.			1½									
33	0	1	2½	No core												
33	2		2	COAL, bright			1									
33	7		5	Shale, black, carbonaceous, soft			2									
34	7	1	0	Sandstone, grey, v. coarse grained, carb.			8									
35	1		6	Shale, carbonaceous, black, soft			4									
35	5		4	Sandstone, f.gr. micaceous			1									
36	3		10	Clayshale, dark grey, carbonaceous, w. plant remains			6									
37	1		10	COAL, v. shaly & bright interbedded			4									
37	7		6	Clay, white, soft			6									
38	3		8	COAL, bright with shaly coal bands			3									
40	0	1	9	Sandstone, m. to c.gr. banded w. dk.grey. carb. sh.	1	6										
41	0	1	0	Sandstone, v. coarse gr. to fine congl.			10									
45	0	4	0	Sandstone v. coarse gr. to fine conglom. & little coal												
50	0	5	0	Sandstone f. gr. friable & some carb.shale												
55	0	5	0	Sandstone, f.gr. friable												
60	6	5	6	Sandstone, f.gr. friable												
61	0		6	Sandstone and coal												

Name and No. of Bore S8 BLOOMFIELD

Estimated Depth Ft.	Estimated Depth Ins.	Estimated Thickness Ft.	Estimated Thickness Ins.	GEOLOGICAL DESCRIPTION OF STRATA	Core Measured Ft.	Core Measured Ins.	Coal Sample No.	Min. Bands Included Ft.	Min. Bands Included Ins.	Min. Bands Excluded Ft.	Min. Bands Excluded Ins.	PROXIMATE ANALYSIS H.M.	V.	F.C.	ASH	B. TH. U/LB
61	5		5	Coal [illegible]		3										
61	11		6	[illegible] carbonaceous		6										
63	0	1	1	Clay, [illegible]		11										
80	0	17	0	Unknown												
													DONALDSON'S SEAM (GMB)			
82	0	2	0	COAL, friable dull with 3 bright bands-1½"	1	4	1/S8	80'-83'								
84	0	2	0	COAL, friable, shaly	1	3										
84	6		6	COAL, friable, dull		6	2/S8	83'-85'3								
85	3		9	COAL, bright		9										
87	0	1	9	Shale, carbonaceous	1	2										
89	0	2	0	Clay, grey, sandy	1	8										
96	8	7	8	Unknown												
101	8	5	0	Shale, grey partly carbonaceous	4	6										
104	8	3	0	Shale, grey, sandy												
106	8	2	0	COAL and shale												
110	0	3	4	Shale, grey with coal bands												
115	0	5	0	Shale, grey, sandy												
120	0	5	0	Shale, grey, sandy												
125	0	5	0	Shale, grey, sandy												
130	0	5	0	Shale, grey, sandy, few ironstone bands												
155	0	25	0	Shale, grey, sandy												
158	0	3	0	Shale, grey, sandy with some coal (10%)									BIG SEAM (GMB)			
158	3		3	COAL, dull, shaly		3	3/S8	158'-161'3								
159	3	1	0	COAL, bright, with some clay	1	0										
159	3½		½	Ironstone, fine grained, hard		½										
159	3		2½	COAL, bright some clay and carb. shale		2½										
160	5		11	COAL, dull with bright bands		11										
161	0		7	COAL, mostly bright with dull bands		6										
161	10	1	10	COAL, bright	1	8	4/S8	161'3-164'8								
163	2		9	COAL, dull brownish with bright bands		7										
164	6		11	COAL, dull brownish with bright bands		10										
164	8		2	Clay ironstone hard, fine grained		2										
164	8½		½	Shale, carbonaceous, dark grey		½										
164	11½		3	COAL, bright		3										
165	1		1½	Shale, carbonaceous, and pyrite		1½										
165	3		2	COAL, bright		2										
165	5		2	Shale, carbonaceous		2										

Name and No. of Bore 38 BLOOMFIELD

Estimated Depth Ft.	Ins.	Estimated Thickness Ft.	Ins.	GEOLOGICAL DESCRIPTION OF STRATA	Core Measured Ft.	Ins.	Coal Sample No.	Min. Bands Included Ft.	Ins.	Min. Bands Excluded Ft.	Ins.	PROXIMATE ANALYSIS H.M.	V.	F.C.	ASH	B. TH. U/LB
			3	COAL, bright		3	5/S8	165'5"-		168'8½"						
165	11½		3½	COAL, dull with bright bands		3½										
166	1½		2	COAL, dull		2										
166	4½		3	COAL, bright		3										
166	6½		2	Shale, carbonaceous w. thin bright coal bds.		2										
167	0½		6	COAL, bright		6										
167	2½		2	COAL, dull w. bright bands.		2										
168	0½		10	COAL, dull shaly. w. bright bands.		10										
168	8½		8	COAL, bright		8										
169	6		9½	Shale, sandy carbonaceous and pyritic w. cross laminated carbonaceous shale bds.		9½										
170	0		6	Shale, grey												
173	0	3	0	Shale, grey, with cross laminations	2	3										
				Hole completed									typed 25.11.52			

BUREAU OF MINERAL RESOURCES. BORE: S9 BLOOMFIELD.

DISTRICT: Newcastle COUNTY: Northumberland PARISH: Maitland PORTION: 23 APPROX. LOCATION: NE Cnr. Port. 23/ 205°/930'

SURVEYED BY: BMR METHOD: Tel. Alidade ELEVATION: 259' REF. MAP: BMR Plan N14/82

LOGGED BY: K. Malcolm CASED: - DATUM: HWB REF. REPORT: BMR Records 1952/46

SUNK BY: BMR TYPE OF DRILL: Failing 750 DEPTH: 128' DATE BEGUN/FINISHED: 15.1.52/17.1.52

Est. Depth Ft.	Ins.	Est. Thickness Ft.	Ins.	Lithology	Core Ft.	Ins.	Sample No.	Bands Incl. Ft.	Ins.	Bands Excl. Ft.	Ins.	Proximate Analysis H.M.	V.	F.C.	ASH	B.TH.U/LB.
19	0	19	0	Clay, with ferruginous pebbles and fine sandstone bands												
20	0	1	0	Sandstone, ferruginous, medium grd.	1	0										
21	9	1	9	Sandstone, ferruginous, coarse grained		2										
22	0		3	Clay, yellow, pebbly		3										
22	5		5	Sandstone, grey, fine grained		5										
22	6		1	Shale, carbonaceous		1										
23	6	1	0	Shale, grey, sandy		6										
		2	0	Shale, carbonaceous	1	0										
26	6	1	0	Shale, carbonaceous		2										
26	8		2	Sandstone, grey, fine grained		2										
27	6		10	Clay, black		2										
27	9		3	Clay, black, carbonaceous vitrain bands up to ¼"		3										
29	0	1	3	Shale, carbonaceous, friable	1	3										
29	8		8	Clay, yellow		8										
30	3		7	Shale, carbonaceous, friable		7										
31	6	1	3	Clay, grey, with pebbly bands	1	3										
32	4		10	Clay, black, carbonaceous		10										
32	6		2	Shale, carbonaceous		2										
33	6	1	0	COAL & carb. shale		11										
33	8		2	COAL, dull and shaly		2										
34	1		5	Shale, carbonaceous		5										
35	7	1	6	Clay, black, carbonaceous	1	6										
36	1		6	Clay, yellow		6										
36	4		3	COAL, bright friable		2										
36	10		6	COAL, bright friable		6										
38	4	1	6	Shale, carbonaceous, gritty	1	6										
38	11		7	Shale, carbonaceous		7										
39	6		7	COAL, dull shaly		7										
39	11		5	Shale, carbonaceous		5										
40	6		7	COAL, bright, hard, banded		7										
41	0		6	Shale, carbonaceous, friable		6										
41	5		5	COAL, dull hard		5										

Name and No. of Bore S9 BLOOMFIELD.

Estimated Depth Ft.	Estimated Depth Ins.	Estimated Thickness Ft.	Estimated Thickness Ins.	GEOLOGICAL DESCRIPTION OF STRATA	Core Measured Ft.	Core Measured Ins.	Coal Sample No.	Min. Bands Included Ft. Ins.	Min. Bands Excluded Ft. Ins.	PROXIMATE ANALYSIS H.M.	V.	F.C.	ASH	B. TH. U/LB
42	3		10	Shale, carbonaceous, sandy		10								
43	0		7	COAL, shaly		7								
43	4		4	Sandstone, grey, fine grained		4								
43	6		2	COAL, bright friable		2								
44	7	1	3	Siltstone, fine grained with plant remains	1	3								
45	4		9	COAL, generally bright - thin pyrites bds.		6								
48	6	3	2	Shale, grey sandy & friable	3	2								
49	0		6	Sandstone, grey, fine-grained		6								
50	0	1	0	Shale, grey, sandy		7								
50	4		4	Sandstone, fine grained, grey		4								
53	4	3	0	Clay, grey with thin shale bands	3	0								
54	4	1	0	Shale, grey sandy	1	0								
55	11	1	7	Clay, shale, grey	1	7								
58	7	2	8	Sandstone, grey fine grained	2	8								
59	4		9	Shale, carbonaceous		9								
60	7	1	3	Clay, grey weathered coal bands up to 1"	1	3								
62	11	2	4	Shale, grey, sandy	2	4								
63	2		3	COAL, bright banded		2								
63	6		4	Shale, grey friable		4								
64	0		6	COAL, bright banded		3								
64	4		4	Shale, carbonaceous		4								
64	5		1	Shale, grey, sandy		1						DONALDSON'S (GMB)		
64	8		3	COAL, dull hard, with fine vitrain bands		3	1/S9	64'5 -66'9½						
64	9		1	Shale, carbonaceous		1								
65	9½	1	0½	COAL, dull hard with vitrain bands		6								
70	3½	4	6	COAL, generally dull with vitrain bands up to 1", generally hard with small friable bands	3	6	2/S9	66'9½-70'9½						
70	9½		6	Shale, carbonaceous, friable		6								
71	2½		5	COAL, dull with fine shale bands		5								
75	9½	4	7	Shale, sandy, soft with fine carb. bands	4	7								
80	0	4	2½	Shale, grey, sandy	3	3								
82	0	2	0	Siltstone, grey, soft	1	8								
83	0	1	0	Clay, brown, sandy		9								
83	6		6	COAL, hard, bright		1								
87	6	4	0	Siltstone, grey, with plant remains	1	1								
88	0		6	Clay, black, carbonaceous		6								
89	6	1	6	Sandstone, brown, coarse grained	1	2								

Name and No. of Bore S9 BLOOMFIELD

Estimated Depth Ft.	Estimated Depth Ins.	Estimated Thickness Ft.	Estimated Thickness Ins.	GEOLOGICAL DESCRIPTION OF STRATA	Core Measured Ft.	Core Measured Ins.	Coal Sample No.	Min. Bands Included Ft.	Min. Bands Included Ins.	Min. Bands Excluded Ft.	Min. Bands Excluded Ins.	PROXIMATE ANALYSIS H.M.	V.	F.C.	ASH	B. TH. U/LB
90	0		6	Shale, grey, soft		6										
92	2	2	2	Sandstone, grey, fine grained & shaly with carb. bands	2	2										
93	0		10	Clay, black with plant remains		8										
93	3		3	Shale, grey, soft		3										
93	6		3	Clay, yellow		3										
97	3	3	9	Sandstone with bands of iron-oxide coarse grained	3	9										
97	8		5	Siltstone, carbonaceous, friable with plant remains		4½										
97	9		1	Sandstone, yellow fine grained		1										
98	8		11	Siltstone, black carbonaceous, plant remains		11										
99	4		8	Shale, black with plant remains		8										
100	1		9	COAL, dull hard with fine vitrain bands		9	3/S9									
100	3		2	Clay, yellos		2	98'11-102'4									
104	3	4	0	COAL, banded generally bright & hard appreciable quantity of pyrites	2	10										
104	6		3	COAL, hard & dull		2	4/S9									
104	9		3	Shale, carbonaceous		3	102'4-104'10									
105	0		3	COAl, bright hard		3										
107	3	2	3	Siltstone, grey, numerous fine pyrites bands	2	3										
107	4		1	Siltstone, grey		1										
107	6		2	Sandstone, grey, coarse grained		2										
108	0		6	Siltstone, grey		6										
110	9	2	9	Sandstone, grey medium grained with fine carb. bands	2	9										
116	0½	5	3½	COAL, assive, generally dull, vitrain bands up to ¼" carb. shale bands to ½ High % of pyrites	5	3½										
116	6½		6	Shale, carbonaceous		6										
117	4½		10	COAL, dull hard		9										
117	7½		3	Shale, carbonaceous		3										
118	6½		10	Siltstone, carbonaceous		10										
118	11½		5	Sandstone, grey, fine grained		5										
119	5½		6	Shale, carbonaceous		6										
120	6½	1	1	Siltstone, grey, plant remains	1	1										
120	9½		3	Sandstone, coarse grained		3										
121	2½		5	COAL, hard, bright		5										
121	6½		4	Shale, carbonaceous with thin coal bands		4										

BIG BEN (GMB)

Name and No. of Bore S9 BLOOMFIELD

Estimated Depth Ft.	Ins.	Estimated Thickness Ft.	Ins.	GEOLOGICAL DESCRIPTION OF STRATA	Core Measured Ft.	Ins.	Coal Sample No.	Min. Bands Included Ft.	Ins.	Min. Bands Excluded Ft.	Ins.	PROXIMATE ANALYSIS H.M.	V.	F.C.	ASH	B. TH. U/LB
123	0	1	7	Sandstone, grey, fine grained	1	7										
128	0	5	0	Sandstone, grey medium grained with carb. bands	5	0										
				Hole completed								typed 3.12.52				

BUREAU OF MINERAL RESOURCES. S10 BLOOMFIELD

DISTRICT: Newcastle COUNTY: Northumberland PARISH: Maitland PORTION: 23 APPROX. LOCATION: SECnrPtn23/253°/370'

SURV.BY: B.M.R. METHOD: Tel.Alidade ELEVATION: 247' REF.MAP.: BMR Plan N14/82

LOGGED: Malcolm/Konecki/Hoyling CASED: --- DATUM: H.W.B. REF. REPORT: BMR Records 1952/46

SUNK BY: J.McD.Royle DRILL: Mindrill E1000 DEPTH: 124' DATE BEGUN/FINISHED: 14.1.52/27.2.52

Est. Depth Ft.Ins.	Est. Thickness Ft.Ins.	Lithology	Core Ft.Ins.	Sample No.	Bands Incl. Ft.Ins.	Bands Excl. Ft.Ins.	Proximate Analysis H.M.	V.	F.C.	ASH	B.TH.U/LB
5 0	5 0	Clay, y.w. ferr. pbles.									
10 3	5 3	Sandstone, gy. c. to m.gr. ferr.									
10 4½	1½	Siderite				1½					
12 4½	2 0	Claystone, wh. silty	2	0							
14 0	1 7½	Siltstone, red-br. ferr.				1½					
15 0	1 0	Sandstone, gy. c.gr. m.hd. limonite coatings.	1	0							
16 0	1 0	Sandstone, f.gr. hd.				3					
16 6	6	Siltstone, gy. hd. limonite coatings				2½					
17 0	6	Sandstone, l.gy. c.gr. limonite coatings				2					
18 0	1 0	Sandstone. l.gy. f. & m.gr.				6½					
19 0	1 0	Sandstone. l.gy. c.gr.				2					
21 0	2 0	Sandstone, l.gy. f.gr.				1					
21 2	2	Sandstone, gy. c.gr. m.hd.				2					
21 7	5	Shale, gy.-br. sdy. w. plant remains				5					
22 6	11	Sandstone, l.gy. m.gr.				1½					
22 9	3	Sandstone, gy. f.gr. cly.				2					
23 0	3	Sandstone, gy. c.gr.				2					
23 3	3	COAL, shy.				1					
24 3	1 0	Sandstone, gy. w. plant remains				10					
26 0	1 9	Siltstone, gy. carb. mic.				4					
26 3	3	Sandstone, gy. c.gr.				1½					
27 4	1 1	Shale, coaly, bds. of wd. coal				3½					
28 4	1 0	Shale. l.gy.				11					
28 7	3	Sandstone, gy. m.gr. cly.				3					
28 10	3	Sandstone, gy. c.gr.				3					
29 1	3	Siltstone, gy. carb.				1½					
29 7	6	COAL				3½					
30 8	1 1	Shale, gnish.-gy. carb.				2					
33 8	3 0	COAL				8					
33 11	3	Sandstone, gy. c.gr.				2½					
36 0	2 1	Sandstone, f.gr. bdd. with grey carb. sltst.	1			1					

Name and No. of Bore S10 BLOCKFIELD

Estimated Depth Ft.	Estimated Depth Ins.	Estimated Thickness Ft.	Estimated Thickness Ins.	GEOLOGICAL DESCRIPTION OF STRATA	Core Measured Ft.	Core Measured Ins.	Coal Sample No.	Min. Bands Included Ft.	Min. Bands Included Ins.	Min. Bands Excluded Ft.	Min. Bands Excluded Ins.	PROXIMATE ANALYSIS H.M.	V.	F.C.	ASH	B. TH. U/Lb
36	3		3	Sandstone, f.gr. bdd. w.gy. carb. siltst.		2										
36	5		2	Claystone, gy.		1½										
36	7		2	Sandstone, gy. c.gr. carb.		2										
38	1½	1	6½	Sandstone, f. & m.gr. bdd. w. carb. silty bds.	1	6½										
38	2		½	Sandstone, c.gr.		½										
38	4		2	Siltstone		2										
38	7		3	Sandstone, c.gr.		2½										
41	0	2	5	Siltstone, gy. carb.	1	7½										
43	4½	2	4½	Sandstone, l.gy. c.gr. carb. fri.	2	4½										
44	5½	1	1	Sandstone, f. & m.gr. carb. w. silty bds.	1	1										
46	10	2	4½	Siltstone, gy. carb.		6½										
46	11½		1½	Siltstone, gy. carb.		1½										
47	0		½	Clayshale. y.		½										
47	6		6	COAL		4										
48	0		6	Siltstone, dk.gy. carb. m.hd.		5½										
48	8		8	Sandstone, f. & m.gr. carb. silty bds.		8										
49	8	1	0	Siltstone carb.		3										
50	9	1	1	Siltstone, coaly, pyritiferous		2										
51	0		3	Clayshale, y. w. plant remains		2½										
51	3		3	Shale, coaly		3										
52	0		9	COAL		9						DONALDSON'S (GMB)				
53	7	1	7	Shale, coaly		1½										
55	0	1	5	COAL		3										
60	9	5	9	Sandstone, l.gy. f.gr. fri. carb.		7										
64	0	3	3	Sandstone, l.gy. f.gr. fri. carb.	3	3										
68	7	4	7	Siltstone, l.gy. w. dk.carb. bds.	4	7										
70	11	2	4	Shale, gy.	2	4										
73	7	2	8	Shale, gy.	2	8										
77	11	4	4	Sandstone, gy. m. to f.gr.	4	4										
79	3	1	4	Sandstone l.gy. f. to m.gr.	1	4										
81	0	1	9	Shale, gy.	1	9										
81	8		8	Shale, gy. sdy.		8										
82	8	1	0	Sandstone, l.gy. m.gr. w. some shy.bds.	1	0										
83	0		4	Shale, l.gy.		4										
83	1		1	Shale, l.gy.		1										
84	3	1	2	COAL												
85	3	1	0	COAL, dull		9	1/S10					BIG BEN (GMB)				
86	2		11	COAL w. bright bds.		6	84'3"-86'11"									
86	7		5	COAL		5										

Name and No. of Bore S10 Bloomfield

Estimated Depth Ft.	Ins.	Estimated Thickness Ft.	Ins.	GEOLOGICAL DESCRIPTION OF STRATA	Core Measured Ft.	Ins.	Coal Sample No.	Miner. Bands Included Ft.	Ins.	Miner. Bands Excluded Ft.	Ins.	PROXIMATE ANALYSIS H.M.	V.	F.C.	ASH	B. TH. U/LB
86'	8"		1"	SHALE, bk.		1"	)1/S10					2.1	33.0	50.8	14.1	12,320
86'	11"		3"	COAL		-	)contd.									
87'	7"		8"	Siltstone, gy. w. carb. lam.		8"										
91'	5"	3'	10"	Siltstone, gy.	3'	10"										
92'	7"	1'	2"	Sandstone, l.gy. m.gr.		11½"										
93'	1"		6"	Sandstone, l.gy. m.gr.		6"										
93'	7"		6"	COAL, dull		6"										
94'	3"		8"	COAL, dull, w.shy. bds.		2½"	)									
94'	8"		5"	Shale, bk.		5"	)			5						
94'	9"		1"	SHALE, bk.		1"	)2/S10			1		2.0	33.5	48.6	15.9	12,070
95'	8"		11"	COAL, dull, w. some bright bds.		11"	)									
96'	8"	1'		COAL, bright		6"	)									
97'	11"	1'	3"	COAL		11"	3/S10					2.1	32.1	55.3	10.5	12,870
98'	5"		6"	SHALE, bk.		6"										
98'	10"		5"	Shale, bk.		5"										
100'		1'	2"	Shale, gy.		8½"										
102'	8"	2'	8"	Shale, gy.	2'	8"										
107'	2"	4'	6"	Shale, gy.	4'	6"										
107'	8"		6"	COAL		3½"										
108'	6"		10"	Shale, gy.		4½"										
111'	5"	2'	11"	Sandstone, gy. v.f.gr.shy.bdd.	2'	11"										
111'	10"		5"	" " m.gr.		5"										
112'	10"	1'		Shale, bk.	1'											
113'	4"		6"	COAL, shy.		4"										
114'	2"		10"	Shale, gy. w. dk.gy. bds. sdy.		10"										
115'	2"	1'		Shale, bk.		6"										
119'	8"	4'	6"	Sandstone, gy. to l.gy. m.gr.	4'	6"										
124'		4'	4"	Sandstone, l.gy. m. to c.gr. w. carb. lam. generally inclined at about 5°	3'	9"										

BUREAU OF MINERAL RESOURCES

Name and No. of Bore: S11 Bloomfield

DISTRICT: Newcastle | COUNTY: Northumberland | PARISH: Stockrington | PORTION: 19 | LOCATION: Approx. SE Cnr.Ptn.19/290°/410'

Surveyed by: B.M.R. | Survey Method: Tel. Alidade | Elevation: 147' | Ref. Map: BMR Plan N14-82

Logged by: S.Rowe, K.Malcolm | Cased: Nil | Datum: H.D.W.B. | Ref. Report: BMR Recs. 1952/46

Sunk by: B.M.R. | Type of Drill: Failing 750 | Depth: 96' | Date Begun/Finished: 16 to 21/1/52

Estimated Depth Ft. Ins.	Estimated Thickness Ft. Ins.	GEOLOGICAL DESCRIPTION OF STRATA	Core Measured Ft. Ins.	Coal Sample No.	Min. Bands Included Ft. Ins.	Min. Bands Excluded Ft. Ins.	PROXIMATE ANALYSIS H.M.	V.	F.C.	ASH	B. TH. U/LB
19'9"	19'9"	Sandstone, c.gr. ferr. w. cl. bds.									
22'6"	2'9"	Shale, dk.gy. carb.									
23'	6"	COAL									
24'	1'	Shale, carb. w. thin bds. of coal	1'								
25'	1'	Siltstone, gy. with carb. bds.	9"								
40'	15'	" as immediately preceding									
45'	5'	Sandstone, gy. f.gr. w. bds. of carb. shale & thin coal									
55'	10'	As before w. some siltstone									
60'	5'	Sandstone, f.gr. to siltstone w. bds. of carb. shale									
68'	8'	As before					Big Ben (GMB)				
68'7"	7"	COAL									
71'7"	3'	COAL, bright, pyrf.	1'2"	1/S11			2.5	36.8	52.7	8.0	13,250
71'11"	4"	Shale, carb.	4"								
72'7"	8"	Siltstone, l.gy.	4"								
73'11"	1'4"	Siltstone, as before w, bds. of carb. shale									
76'4"	2'5"	COAL, bright									
77'3"	11"	COAL, bright	11"								
77'7"	4"	COAL, bright, w. dull bds.	4"								
77'8"	1"	Shale, carb. & pyrf.	1"	2/S11	1"		2.7	32.4	53.2	11.7	12,600
77'10"	2"	COAL, dull	2"								
79'2"	1'4"	COAL, bright	1'4"								
79'2½"	½"	Shale, carb.	½"		½"						
80'3½"	1'1"	COAL, bright	1'1"								
80'5"	1½"	Shale, bk. pyrf.	1½"								
80'5½"	½"	COAL	½"								

Name and No. of Bore S11 Bloomfield.

Estimated Depth Ft.	Ins.	Estimated Thickness Ft.	Ins.	GEOLOGICAL DESCRIPTION OF STRATA	Core Measured Ft.	Ins.	Coal Sample No.	Miner. Bands Included Ft.	Ins.	Miner. Bands Excluded Ft.	Ins.	PROXIMATE ANALYSIS H.M.	V.	F.C.	ASH	B. TH. U/LB
80'	11½"		6"	Shale, carb. & pyrf.		6"										
81'	½"		1"	COAL		1"										
82'	4"	1'	3"	Siltstone, l.gy.	1'	2"										
96'		13'	8"	Sandstone, m. to c.gr., carb, friable												
				Drilled by BMR's 750 Failing, Serial No. 262.												

BUREAU OF MINERAL RESOURCES.

BORE: S12 BLOOMFIELD

DISTRICT: Cessnock Muswellbrook COUNTY: Northumberland PARISH: Maitland PORTION: 23 APPROX. LOCATION: NW Cnr Ptn 23/156°/590'

SURV. BY: B.M.R. METHOD: Tel.Alidade ELEVATION: 183' ASL REF. MAP: BMR Plan N14/82

LOGGED: G.A. Thomas CASED: --- DATUM: H.W.B. REF.REPORT: BMR Records 1952/46

SUNK BY: B.M.R. DRILL: Failing 750 DEPTH: 94' DATE BEGUN/FINISHED: 16.1.52/17.1.52

Est. Depth Ft.Ins.	Est. Thickness Ft.Ins.	Lithology	Core Ft.Ins.	Sample No.	Bands Incl. Ft.Ins.	Bands Excl. Ft.Ins.	Proximate Analysis H.M.	V.	F.C.	ASH	B.TH.U/LB.
13 6	13 6	Sandstone grey and brown. f. to m.gr. w. fgnous pebbles									
17 6	4 0	Shale, pale grey, sandy									
20 0	2 6	Sandstone f. to m.gr. brown									
21 3	1 3	COAL, bright (80%) with little carb. shale & sandy sh.									
21 9½	6½	COAL, bright and dull banded		5½ 1/S12	21'3-24'3						
21 10	½	Shale, carbonaceous		½							
23 3	1 5	COAL, dull w. bright bands & some v. thin carb. shale	1	3							
23 5	2	COAL, dull		1½							
24 7	1 2	COAL, bright	1	0							
24 8	1	Shale, carbonaceous		1 2/S12	24'3-27'2						
25 0	4	COAL, dull		3½							
25 3	3	COAL, bright & ferruginous in part		2							
25 10½	7½	COAL, bright		6½							
25 11	½	Shale, carbonaceous, soft		½							
26 7½	8½	COAL, bright & a little dull coal		7							
27 2	6½	COAL, bright		4							
27 7	5	Sandstone f.gr. brown w. carbonaceous laminae		5							
30 7	3 0	COAL, bright									
32 0	1 5	COAL, shaly									
33 6	1 6	COAL, dull									
37 0	3 6	Shale, pale grey, sandy									
42 0	5 0	Shale, pale grey, sandy & a little coal									
45 3	3 3	Shale, pale grey, sandy & a little coal									
47 0	1 9	Shale, carbonaceous									
50 6	3 6	Sandstone, pale grey, f.gr. shaly									
52 0	1 6	Shale, carbonaceous									
55 0	3 0	Sandstone f.gr. pale grey, shaly									
56 6	1 6	Siltstone grey									

DONALDSON'S (GMB)

Name and No. of Bore S12 BLOOMFIELD

Estimated Depth Ft.	Ins.	Estimated Thickness Ft.	Ins.	GEOLOGICAL DESCRIPTION OF STRATA	Core Measured Ft.	Ins.	Coal Sample No.	Min. Bands Included Ft.	Ins.	Min. Bands Excluded Ft.	Ins.	PROXIMATE ANALYSIS H.M.	V.	F.C.	ASH	B.TH.U/LB
57	0		6	Shale, carbonaceous												
62	6	5	6	Sandstone f.gr. pale grey shaly & little coal												
65	0	2	6	Siltstone, grey												
65	9		9	Shale, pale grey, sandy												
66	3		6	COAL												
66	6		3	Clay, white with some coal		2	3/S12	66'6-68'7						BIG BEN (GMB)		
69	3	2	9	COAL, bright	2	0										
69	8		5	Sandstone, v. fine grey shaly, pyritic and partly carbon		4										
71	0	1	4	Sandstone, f.gr. pale grey pyritic soft, shaly	1	1										
72	11	1	11	Sandstone f.gr. pale grey pyritic soft, partly carb.	1	11										
73	3		4	Shale, carbonaceous, and a little coal		4										
73	7½		4½	COAL, dull, laminated, shaly		4½	4/S12	73'5-75'7								
74	3½		8	COAL, dull		8										
74	4		½	Shale, carbonaceous		½										
75	11	1	7	COAL, bright	1	[illegible]										
76	0		1	Shale, carbonaceous, soft		1										
76	11		11	COAL, bright		5½	5/S12	76'0-80'0								
77	1		2	Shale, carbonaceous, pyritic		1										
79	5	2	4	COAL, bright w. dull bds.	1	7										
79	10		5	Shale, soft friable, carbonaceous		4										
81	0	1	2	COAL, bright		8										
81	3		3	Shale, carbonaceous, pyritic & coal bd.		3										
81	8		5	Shale, carbonaceous,		5										
82	4		8	Shale, grey, carbonaceous		7½										
83	1		9	Sandstone, grey v. fine micaceous w. carb. laminae		9										
84	0		11	COAL, dull with bright bds.		6										
85	3	1	3	Sandstone, pale grey, shaly												
88	9	3	6	Sandstone, pale grey, shaly								TOMAGO THIN(?) (GMB)				
90	0	1	3	Shale, carbonaceous, & a little coal												
94	0	4	0	Sandstone, pale grey, f.-med. gr. shaly												
				Hole completed										typed 27.11.52		

BUREAU OF MINERAL RESOURCES

BORE: S16 BLOOMFIELD

DISTRICT: Newcastle COUNTY: Northumberland PARISH: Maitland PORTION: 20 APPROX. LOCATION: 3 ECnrPtn20/282°/770'

SURV. BY: BMR. METHOD: Tel.Alidade ELEVATION: 124' ASL REF. MAP: BMR Plan N14/82

LOGGED: K.Malcolm/S.Rowe CASED: --- DATUM: H.W.B. REF.REPORT: BMR Records 1952/46

SUNK BY: BMR. DRILL: Failing 750/263 DEPTH: 125' DATE BEGUN/FINISHED: 23.1.52/24.1.52

Est. Depth Ft.	Ins.	Est. Thickness Ft.	Ins.	Lithology	Core Ft.	Ins.	Sample No.	Bands Incl. Ft.	Ins.	Bands Excl. Ft.	Ins.	Proximate Analysis H.M.	V.	F.C.	ASH	B.TH.U/LB.
20	0	20	0	Sandstone, ferr.c.gr.w. bds. of silty sh. off-white												
35	0	15	0	Sandstone. l.gy. m. to c.gr. fri.												
65	0	30	0	Sandstone, gy. m.gr. fri.												
70	0	5	0	Sandstone. l.gy. fri. c.gr.												
75	6	5	6	Sandstone, as before w. bds. of gy. clay-shale												
83	0	7	6	Clayshale, gy. carb.												
83	6		6	COAL												
																BIG BEN (GMB)
84	10½	1	4½	COAL	1	4½	1/S16									
85	7		8½	Shale, carb. brownish-dk. gy. w. coal bds.		8½						8½				
86	0½		5½	COAL		5½										
86	2		1½	Shale, carb. brish-dk.gy.		1½						1½				
86	6		4	COAL		4										
86	6½		½	Shale, pyrf.		½	2/S16									
88	0½	1	6	COAL	1	6										
88	1		½	Shale, dark br.		½										
88	6½		5½	COAL, pyrf. shy. in top 2"		5½										
88	8		1½	Shale, pyrf. & carb.		1½						1½				
89	6		10	COAL, bright		8										
89	8		2	COAL, bright		2	3/S16									
89	8½		½	Shale, carb. & pyrf.		½										
91	7½	1	11	COAL	1	11										
92	0½		5	Shale, brownish-dark gy. w. a few thin coal bds.		5						5				
92	8½		8	COAL		8										
94	0	1	3½	Siltstone, carb. gy. & dk.gy. w. Glossopteris etc.		9										

Name and No. of Bore S16 BLOOMFIELD

Estimated Depth Ft.	Ins.	Estimated Thickness Ft.	Ins.	GEOLOGICAL DESCRIPTION OF STRATA	Core Measured Ft.	Ins.	Coal Sample No.	Min. Bands Included Ft.	Ins.	Min. Bands Excluded Ft.	Ins.	PROXIMATE ANALYSIS H.M.	V.	F.C.	ASH	B.TH.U/LB
103	0	19	0	Sandstone, carb. f. to m.gr. gy. w. carb. shale bds.												
122	0	9	0	Shale, bk.carb.												
125	0	3	0	Sandstone, gy. carb. f. to m.gr.												
				Hole completed									typed 27.11.52			

BUREAU OF MINERAL RESOURCES. BORE: S17 BLOOMFIELD

DISTRICT: Newcastle COUNTY: Northumberland PARISH: Maitland PORTION: 19 APPROX LOCATION: SECnrPtn19/281°/900'

SURV. BY: B.M.R. METHOD: Tel.Alidade ELEVATION: 163'ASL REF.MAP: BMR Plan N14/82

LOGGED BY: M.Konecki/N.Hoyling CASED: --- DATUM: H.W.B. REF.RPT.: BMR Records 1952/46

SUNK BY: B.M.R. DRILL: Failing 750/263 DEPTH: 148'6 DATE BEGUN/FINISHED: 25.1.52/30.1.52

Est. Depth Ft.	Ins.	Est. Thickness Ft.	Ins.	Lithology	Core Ft.	Ins.	Coal Sample No.	Bands Incl. Ft.	Ins.	Bands Excl. Ft.	Ins.	Proximate Analysis H.M.	V.	F.C.	ASH	B.TH.U/LB.	
10	0	10	0	Sandstone ferr. v.c.gr. w.y.cl. bds.													
34	6	24	6	Sandstone, c.gr. brish.-l.gy. w. thin silty cream bds.													
37	0	2	6	Shale, gy. carb.													
37	8		8	COAL													
38	1½		5½	COAL, bright pyrf.			5½										
38	3½		2	Shale, brish.-bk			2										
38	8½		5	COAL, bright			5										
38	9½		1	Shale, gy.			1										
39	0		2½	COAL, bright			2½										
39	1		1	Shale, brish.-bk.			1										
39	4		3	COAL, bright			3										
39	6		2	Shale, l.gy.			2										
40	0		6	COAL			2										
42	6	2	6	Shale, l.gy. mic. w. sdy. bds.	2	0											
70	6	28	0	Siltstone, gy. carb. w. occasional thin coal bds.													
71	4		10	COAL, bright			10	1/S17		70'6"-73'7"							DONALDSONS? (GMB)
71	5		1	Shale, dk. gy. carb. pyrf. silty			1										
72	6	1	1	COAL, bright			5										
73	7	1	1	COAL, bright			5										
74	0		5	Siltstone, carb. gy.			2										
80	0	6	0	Siltstone, carb. gy.													
120	0	40	0	Sandstone f. to m.gr. w. carb. sh. bds.													
131	0	11	0	Shale, dk.gy. carb. w. bds. of f. to m.gr. sst.													
131	7		7	COAL													BIG BEN (GMB)
133	7	2	0	COAL, pyrf. dull w. bright bds.	1	4	4	2/S17		131'7"-135'7"							
133	8		1	COAL			1										
133	9½		1½	Shale, dk. brish.-gy. carb.			1½				1½						
134	6		8½	COAL, dull. pyrf.			8½										
134	7		1	Shale, dk.brish.-gy. carb.			1										

Name and No. of Bore S17 BLOOMFIELD.

Estimated Depth Ft.	Ins.	Estimated Thickness Ft.	Ins.	GEOLOGICAL DESCRIPTION OF STRATA	Core Measured Ft.	Ins.	Coal Sample No.	Min. Bands Included Ft.	Ins.	Min. Bands Excluded Ft.	Ins.	PROXIMATE ANALYSIS H.M.	V.	F.C.	ASH	B.TH.U/LB
135	7	1	0	COAL, bright, pyrf.	1	0										
135	8½		1½	COAL		1½	3/S17	135'7"-139'0"								
135	10		1½	Shale, dk. brish.-gy.		1½				1½						
137	7	1	9	COAL, generally bright, pyrf.	1	4										
139	0	1	5	COAL, generally bright,	1	3½										
141	0	2	0	Sandstone. f.gr. bk. to dk.gy. carb.	1	4										
143	0	2	0	Sandstone, f.gr. bk. to dk.gy. carb.												
148	6	5	6	Shale, gy. carb. w. dk.gy. sltst. bds.												
				Hole completed									typed 27.11.52			

BUREAU OF MINERAL RESOURCES.

BORE: S18 BLOOMFIELD

DISTRICT: Newcastle COUNTY: Northumberland PARISH: Maitland PORTION: 24 APPROX LOCATION: S.Cnr Ptn 24/307°/420'

SURV. BY: B.M.R. METHOD: Tel.Alidade ELEVATION 176' ASL REF. MAP: BMR Plan N14/82

LOGGED BY: M.C.Konecki CASED: 12'6 DATUM: H.W.B. REF. REPORT: BMR Records 1952/46

SUNK BY: J. McD. Royle DRILL: Mindrill ELOCO DEPTH: 50' DATE BEGUN/FINISHED: 28.1.52/31.1.52

Est. Depth Ft.Ins.	Est. Thickness Ft.Ins.	Lithology	Core Ft.Ins.	Sample No.	Bands Incl. Ft.Ins.	Bands Excl. Ft.Ins.	Proximate Analysis H.M.	V.	F.C.	ASH	B.TH.U/LB.
12 10	12 10	Sandstone m.gr. fri. ferr.									
13 3	5	Siltstone, dk.gy. carb. & Mic.	5								
14 2	11	Sandstone l.gy. f.gr. w. thin carb. bds.	11								
14 5½	3½	Shale, dk.gy. carb. w. plant remains	3½								
15 3½	10	Sandstone l.gy. f. to m.gr. w. thin carb.bds.	10								
15 7	3½	Sandstone, dk.gy. carb. fri.	1½								
16 0	5	Sandstone, f.gr. w. carb. bds.	5								
16 6½	6½	Sandstone l.gy. m.gr. fri. & w. limonitic stains	6½								
18 1	1 6½	Sandstone. l.gy. f. to m.gr. w. carb. bds. fri. & w. limonitic stains	1 6½								
19 7	1 6	Sandstone as immediately preceding	10								
24 10	5 3	Sandstone, as immediately preceding m.gr. in parts	5 3								
26 2	1 4	Sandstone, l.gy. c.gr. fri. calc. w. thin carb. bds.	1 4								
27 3	1 1	Sandstone as immediately preceding w.f.gr. non-calc. bds.	1 1								
29 4½	2 1½	Sandstone gy. f.gr. w. many carb. bds.	2 1½								
29 6½	2	Sandstone dk.gy. v.carb.	1½								
30 6	11½	Claystone, gy. carb. w. plant remains									
32 4	1 10	Claystone, gy. carb. w. plant remains	9								
33 2	10	Clay-ironstone gy. w. near-vertical calcitic cracks	10								
37 0	3 10	Claystone gy. w. little carb. detritus	3 10								
37 2	2	Shale, bk. pyrf. w.v.thin carb. bds.	1½								
40 11	3 9	Claystone, gy. carb.	3 9								
41 9	10	Siltstone, gy. carb.	10								
44 11	3 2	Sandstone, f.gr. l.gy. w. dk.gy.carb.bds.	3 2								
45 10	11	Claystone, carb.									
50 0	4 2	Claystone, carb.	2 8½								
		Hole completed									

27.11.52

BUREAU OF MINERAL RESOURCES

BORE: S19 BLOOMFIELD

DISTRICT: Newcastle COUNTY: Northumberland PARISH: Stockrington PORTION 26 APPROX. LOCATION: NECnrPtn26/201°/1100'

SURV. BY: B.M.R. METHOD: Tel.Alidade ELEVATION: 180' ASL REF. MAP: BMR Plan N14/82

LOGGED BY: M.C.Konecki/N.Hoyling CASED: --- DATUM: H.W.B. REF. REPORT: BMR Records 1952/46

SUNK BY: B.M.R. DRILL: Failing 750/262 DEPTH: 170' DATE BEGUN/FINISHED: 29.1.52/7.2.52

Est. Depth Ft.Ins.	Est. Thickness Ft.Ins.	Lithology	Core Ft.Ins.	Sample No.	Bands Incl. Ft.Ins.	Bands Excl. Ft.Ins.	Proximate Analysis H.M. V. F.C. ASH B.TH.U/LB.
1 6	1 6	Clay, brish					
21 6	20 0	Sandstone, f. to c.gr. ferr. w. some dk.gy. carb. shale					
29 6	8 0	Clay, l.gy.					
30 4	10	COAL					DONALDSON'S (GMB)
31 0	8	COAL				5½	1/S19
32 0	1 0	Shale, coaly, w. coal bds.				10½	
33 2	1 2	Clayshale, y.	1			1	
33 4½	2½	COAL, dull, shy. w. thin bright bds.				2½	2/S19
33 5	½	Shale, bk.				½	
34 0	7	COAL, dull shy.				1½	
34 1½	1½	Shale, bk.				1½	
34 6½	5	COAL, shy. dull				5	
36 0	1 5½	COAL, w. sh. bds. to ½" thick	1			5	
36 11	11	COAL, w. br. sh. bds. to ¼" thick				11	
37 7½	8½	Sandstone, gy. to l.gy. v.f.gr.cly. w. carb. lam.				8½	
37 9	1½	COAL, w. sltst. bds.				1½	
38 0	3	Siltstone, gy. carb. mic.				2	
65 0	27 0	Sandstone f. to v.c.gr. w. sh. bds.					
65 8½	8½	Sandstone, v.c.gr. w. thin sh. bds.				8½	
66 3	6½	Shale, dk.gy. carb.				6½	
66 5½	2½	Shale, bk. pyrf. w. thin coal bds.				2½	
67 2	8½	COAL				5	BIG BEN (?) (GMB)
67 8	6	Shale, coaly				4	
68 7	11	COAL				7½	
69 3	8	Shale, coaly, pyr. w. coal bds.				3½	
69 5½	2½	Siltstone, dk.gy. carb. & pyrf.				2½	
69 9½	4	Sandstone, f.gr. l.gy. w. carb. bds.				4	
70 0	2½	Siltstone gy. carb.mic. w. plant remains				2½	

Name and No. of Bore S19 BLOOMFIELD

Estimated Depth Ft.	Estimated Depth Ins.	Estimated Thickness Ft.	Estimated Thickness Ins.	GEOLOGICAL DESCRIPTION OF STRATA	Core Measured Ft.	Core Measured Ins.	Coal Sample No.	Min. Bands Included Ft.	Min. Bands Included Ins.	Min. Bands Excluded Ft.	Min. Bands Excluded Ins.	PROXIMATE ANALYSIS H.M.	V.	F.C.	ASH	B.TH.U/LB
79	6	9	6	Sandstone f. to m.gr. l.gy. w.dk.gy. lam. & some carb. shale												
79	6½		½	Shale, gy. silty, carb.		½										
79	11½		5	COAL, shy. & bright interbdd.		5										
80	1		1½	Shale, bk.		1½										
80	6		5	COAL, dull w. bright bds.		5										
81	0		6	Shale, bk. w. a pyrf. bd.		2										
81	3		3	Shale. y. silty		1										
81	6		3	COAL, shy. w. bright bds.		3										
81	8½		2½	Clayshale, y.s.		2½										
81	10		1½	Shale, bk.bdd.		1½										
81	11		1	Shale, gy. carb. silty,		1										
83	0	1	1	COAL		7½										
83	1		1	Shale, dk.gy. carb.		1										
85	0	1	11	Sandstone, l.gy. m. to c.gr. w. carb. plant remains	1	11										
95	0	10	0	Sandstone. l.gy. f. to c.gr. cly.												
105	0	10	0	Sandstone. l.gy. f. to c.gr. cly. w. some coal												
105	2		2	COAL												
105	5		3	Clay. wh.		1½										
106	8	1	3	COAL, dull & bright interbdd. w. thin sh. bds. at bottom	1	3										
107	2		6	Shale, bk.		2										
109	2	2	0	COAL	1	5½										
110	2	1	0	Sandstone. l.gy. cly. s. m.gr.	1	0										
121	0	10	10	Shale, gy. & dk.gy. & w. bds. of f.gr. gy. sst.												
133	0	12	0	Sandstone. l.gy. & m.gr. dk.gy. & f.gr.												
142	0	9	0	Grey shale and siltstone												
165	0	23	0	Sandstone, l.gy. f. to m.gr. w. thin coal bds.												
170	0	5	0	Shale, dk.gy. sdy. in parts												
				Hole completed										typed 27.11.52		

BUREAU OF MINERAL RESOURCES

BORE: S20 BLOOMFIELD

DISTRICT: Newcastle
COUNTY: Northumberland PARISH: Stockrington PORTION: 25 APPROX. LOCATION: NWCnrPtn25/168°/1280'
SURV. BY: BMR.
METHOD: Tel.Alidade ELEVATION: 242.6' ASL REF. MAP: BMR Plan N14/82
LOGGED: Konecki/Malcolm/Hoyling
CASED: Not DATUM: H.W.B. REF. REPORT: BMR Records 1952/46
SUNK BY: BMR
DRILL: Failing 750/263 DEPTH: 170' DATE BEGUN/FINISHED: 3.2.52/17.2.52

Est. Depth Ft.	Ins.	Est. Thickness Ft.	Ins.	Lithology	Core Ft.	Ins.	Coal Sample No.	Bands Incl. Ft.	Ins.	Bands Excl. Ft.	Ins.	Proximate Analysis H.M.	V.	F.C.	ASH	B.TH.U/LB.
5	0	5	0	Clay. l.br. w. some ferr. sst. fragments												
23	0	18	0	Conglomerate, ferr. w. l.gy. silty bds. & cl. bds.												
28	0	5	0	Conglomerate, m.gr. ferr.												
30	0	2	0	Sandstone. l.gy. m.gr. w. thin coal bds.												
36	0	6	0	Shale, gy. w. some coal												
37	9	1	9	Shale, l.gy. w. sdy. mic. bds.	1	9										
37	11		2	Shale, yish.-gy. carb.		2										
40	3	2	4	COAL, w. thin vitrain bds. & iron staining	1	2½										
40	8		5	COAL, bright		5										
41	6		10	Shale, brish-gy.		10										
42	1		7	Sandstone, gy. f. gr. mic.		7										
43	6		5	Shale, brish-gy. mic.		5										
43	9	1	3	Sandstone, l.gy. m.gr. fri.	1	3										
55	0	11	3	Sandstone, l.gy. m.gr./w. some bk.sh. & coal fri												
63	0	8	0	Sandstone. wh. etc. v.c.gr. fri.												
64	0	1	0	Shale, carb. w. coal bds.												
64	3		3	COAL, w. carb. shale bds.		3										
64	8		5	Shale, dk.gy. carb.		5										
66	6	1	10	Sandstone l.gy. f. to c.gr. cly. s.	1	10										
70	0	3	6	Sandstone, f.gr. ferr.												
71	2	1	2	Shale, bk.												
71	8		6	COAL, bright		6										
71	11		3	Shale, bk. w. coal bds.		3	1/S20			3						
71	11½		½	Siltstone br.gy. carb.		½										
72	7½		8	COAL, w. ½" bd. of pyrites		8										
72	11		3½	Shale, bk. w. bds. of coal		3½				3½						
73	3		4	Clayshale y.		4				4						
73	6½		3½	COAL, v.shy. w. limonite staining		3½										
73	7		½	Clayshale, l.gy.		½										
73	8		1	Shale, bk.		1										
73	10		2	COAL, v. shy. w. limonite stains		2										
73	11		1	Shale, gk.		1										

DONALDSONS (GMB)
71'8"-79'8"

Name and No. of Bore S20 BLOOMFIELD.

Estimated Depth Ft.	Estimated Depth Ins.	Estimated Thickness Ft.	Estimated Thickness Ins.	GEOLOGICAL DESCRIPTION OF STRATA	Core Measured Ft.	Core Measured Ins.	Coal Sample No.	Min. Bands Included Ft.	Min. Bands Included Ins.	Min. Bands Excluded Ft.	Min. Bands Excluded Ins.	PROXIMATE ANALYSIS H.M.	V.	F.C.	ASH	B.TH.U/LB
74	4		5	COAL, w. limonite stains		5										
74	8		4	COAL, v. shy.		4										
74	9		1	Shale, bk. w. thin coal bds.		1										
75	6		9	COAL		9	2/S20							74'9"-76'6½"		
75	6½		½	Clay shale l.gy.		½										
75	11½		5	COAL, ironstained w. thin clsh. bds.		5										
76	3½		4	COAL		4										
76	4½		1	Clayshale		1										
76	6½		2	COAL		2										
77	0		5½	Sandstone. l.gy. f.gr.		3										
79	0	2	0	Sandstone, l.gy. m. to c.gr.	2	0										
82	0	3	0	Sandstone. l.gy. f.gr. hd.												
88	0	6	0	Conglomerate, f. w. rd. grains												
97	0	9	0	Sandstone. l.gy. f. to m.gr. w. carb. bds.												
99	6	2	6	Conglomerate f.w.rd. grains										BIG BEN (G.M.B.)		
101	0	1	6	COAL,												
102	6	1	6	Shale, bk.												
110	0	7	6	Sandstone. l.gy. m.gr.												
114	9	4	9	Sandstone. wh. f.gr. hd.												
115	3		6	COAL												
115	7½		4½	COAL		4½										
116	0		4½	Shale. l.gyish-y.		4½										
116	10		10	COAL		10										
117	11	1	1	Shale, gy. mic. sdy.		11										
127	0	9	1	Sandstone, wh. f.gr. hd.												
137	0	10	0	Conglomerate, quartzitic, w. bds. of soft coal												
137	6		6	COAL										TOMAGO THIN?		
137	7½		1½	Clayshale, wh.		1½										
139	7½	2	0	COAL	1	11										
140	3		7½	Sandstone, gy. f.gr.												
142	0	1	9	Sandstone, gy. f.gr.												
170	0	28	0	Sandstone. l.gy. f.gr. hd. w. bds. of dk. brish-gy. sltst.												
				Hole completed								typed 27.11.52				

BUREAU OF MINERAL RESOURCES.

BORE: S22 BLOOMFIELD

DDIST.: Newcastle COUNTY: Northumberland PARISH: Maitland PORTION: 23 APPROX. LOCATION: SECnrPtn23/287°/27C'

SURV.: BMR. METHOD: Tel.Alidade ELEVATION: 238.4' ASL REF.MAP: BMR Plan N14/82

LOGGED: M.C.Konecki CASED: 10' DATUM: H.W.B. REF. REPORT: BMR Records 1952/46

SUNK BY: J.McD.Royle Ltd. DRILL: Mindrill E1000 DEPTH: 46' DATE BEGUN/FINISHED: 15.2.52/20.2.52

Est. Depth Ft.	Ins.	Est. Thickness Ft.	Ins.	Lithology	Core Ft.	Ins.	Sample No.	Bands Incl. Ft.	Ins.	Bands Excl. Ft.	Ins.	Proximate Analysis H.M.	V.	F.C.	ASH	B.THU/lb
	9		9	Clay, mottled red & gy. wd.		5										
3	0	2	3	Clay, reddish-br. w. bds. of c.gr.sst.		10										
20	4	17	4	Sandstone, l.gy. c.gr. w. br. clay bds.	1	2										
23	8	3	4	Shale, gy. carb. w. bds. of m.gr. sst.	1	10										
26	6	2	10	Sandstone, gy. f. to m.gr. carb. & mic. in part		11										
26	9½		3½	Sandstone, gy. f.gr. w.cly. carb. bds.		3½										
26	10½		1	COAL		1										
27	8		9½	Sandstone, f.gr. cly. w. carb. bds.		3										
29	6	1	10	Sandstone, l.gy. to gy. f. to c.gr. w. carb. bds.	1	10										
29	7		1	COAL		1										
29	8½		1½	Sandstone. l.gy. c.gr. fri.		1½										
31	11	2	2½	Siltstone, bk. carb. w. fractures		1½										
32	9		10	COAL (logged by driller)												
33	6		9	COAL & coaly shale		4										
34	11	1	5	COAL		4										
36	5	1	6	COAL (logged by driller)												
40	10	4	5	Sandstone l.gy. f.gr. mic. fri. w.v.thin bds. of carb. matter.	3	0										
46	0	5	2	Sandstone as immediately preceding	4	9										

No samples taken for Analysis.

DONALDSON'S (GMB)

Hole completed

typed 28.11.52

BUREAU OF MINERAL RESOURCES

BORE: S23 BLOOMFIELD

DISTRICT: Newcastle COUNTY: Northumberland PARISH: Maitland PORTION: 29 APPROX. LOCATION: NWCnrPtn29/460'/660'

SURVEYED: BMR METHOD: Tel.Alidade ELEVATION: 223' ASL REF.MAP: BMR Plan N14/82

LOGGED BY: N. Hoyling CASED: --- DATUM: H.W.B. REF.REPORT: BMR Records 1952/46

SUNK BY: BMR DRILL: Failing 750/262 DEPTH: 47'8 DATE BEGUN/FINISHED: 18.3.52/19.3.52

Est. Depth Ft.	Ins.	Est. Thickness Ft.	Ins.	Lithology	Core Ft.	Ins.	Sample No.	Bands Incl.	Bands Excl.	Proximate Analysis H.M.	V.	F.C.	ASH	B.TH.U/LB.
8	6	8	6	Clay. wh. w. some br. streaks										
10	6	2	0	Sandstone, br. f. to m.gr. s. fri.										
13	3	2	9	Clayshale. wh.										
13	8		5	Clayshale, brish.-bk.										
14	1		5	Clayshale, brish. -bk.		5								
14	6		5	Clayshale, wh. w. limonitic streaks		5								
15	8	1	2	Shale, gy. s. silty, mic.		10								
20	9	5	1	Shale, gy. s. silty, mic.										
21	0		3	COAL, brish.-bk. s. ?wd.										
25	0	4	0	COAL, s. ?wd.										
26	0	1	0	Sandstone, gy. w. limonitic bands m. gr. fairly s.		4								
29	0	3	0	Sandstone, gy. f.gr. shy.										
29	3		3	COAL		3								
29	7		4	Shale, gyish-bk. sdy. mic. & pyrf.		4								
31	0	1	5	Sandstone, gy. m.gr. w. carb. lam.	1	5								
41	0	10	0	Shale, gy. s.										
42	0	1	0	COAL, shy										
45	0	3	0	Shale, gyish.-bk.										
47	6	2	6	COAL, s. crumbly, wd.										
47	8		2	Siltstone, dk.gy.										

No samples taken for analysis.

BIG BEN ? (GMB)

TOMAGO THIN ? (GMB)

Hole completed

typed 28.11.52

BUREAU OF MINERAL RESOURCES

BORE: BMR 30 BLOOMFIELD

DISTRICT: Newcastle COUNTY: Northumberland PARISH: Maitland PORTION: 23 APPROX. LOCATION: NWCnrPtn23/163°/580'

SURV.BY: BMR METHOD: Tel. Alidade ELEVATION: 182' REF.MAP: BMR Plan N14/82

LOGGED: N. Hoyling CASED: Not DATUM: H.W.B. REF.REPORT: BMR Records 1952/46

SUNK BY: BMR DRILL: Failing DEPTH: 27'8 DATE BEGUN/FINISHED 18.8.52/20.8.52

Est. Depth Ft.	Ins.	Est. Thickness Ft.	Ins.	Lithology	Core Ft.	Ins.	Coal Sample No.	Bands Incl. Ft.	Ins.	Bands Excl. Ft.	Ins.	Proximate Analysis H.M.	V.	F.C.	ASH	B.TH.U/LB
16	0	16	0	Sandstone, brown, shaly, fine to medium grained with bands of brown shale												
16	3		3	Sandstone, light greyish-brown fine grained, soft		3										
16	10½		7½	Shale, grey, soft with carbonaceous streaks (dip 7°)		7½										
17	2½		4	COAL, dull ?slightly weathered		4										
17	5½		3	Shale, light brown, soft		3										
18	8	1	2½	COAL, mostly bright		9½	1/BMR 30									
20	8	2	0	COAL, bright with limonitic cleat, frag.	1	6½										
22	8	2	0	COAL, bright, fragmentary, to shattered	1	8½	2/BMR30									
23	8	1	0	COAL, bright shattered in the top 1/3	1	0										
24	3½		7½	COAL, bright shattered in the bottom 1/3		7½										
24	4½		1	Claystone, black soft ?weathered coal		1			1							
24	8		3½	Claystone, grey, soft		3½										
26	8	2	0	Shale, grey, soft, sandy	2	0										
27	8	1	0	Shale, grey, very soft	1	0										

DONALDSON'S (GMB)

Hole completed

typed 28.11.52

BUREAU OF MINERAL RESOURCES

BORE: BMR 31 BLOOMFIELD

DISTRICT: Newcastle COUNTY: Northumberland PARISH: Stockrington PORTION: 26 APPROX. LOCATION: NEC nr Ptn 26/189°/430'

SURV.BY: BMR METHOD: Tel.Alidade ELEVATION: 195' REF. MAP: BMR Plan N14/82

LOGGED: N. Hoyling CASED: Not DATUM: H.W.B. REF. REPORT: BMR Records 1952/46

SUNK BY: BMR DRILL: Failing 750/290 DEPTH: [illegible]'2" DATE BEGUN/FINISHED: 21.8.52/22.8.52

Est. Depth Ft.Ins.	Est. Thickness Ft.Ins.	Lithology	Core Ft.Ins.	Coal Sample No.	Bands Incl. Ft.Ins.	Bands Excl. Ft.Ins.	Proximate Analysis H.M.	V.	F.C.	ASH	B.TH.U/LB.
11 0	11 0	Shale & claystone, brown, soft									
20 0	9 0	Sandstone, brown medium-grained friable									
30 6	10 6	Claystone, light grey									
31 6	1 0	Siltstone, grey, banded soft	1 0								
35 0	3 6	Siltstone, grey									
36 0	1 0	COAL, bright									
37 0	1 0	Sandstone, light grey, medium grained fri.	1 0								
40 6	3 6	Sandstone, as immediately preceding	3 6								
41 2	8	Shale, grey, soft	8								
41 9	7	COAL, bright fragmentary to shattered	7								
42 8	11	Sandstone, light grey, fine-grained fri.	11								
45 2	2 6	Sandstone, light grey, medium grained	2 4								
47 0	1 10	Sandstone, light grey, fine-grained with carbonaceous streaks	1 8								
47 8	8	Shale, grey, medium soft	4								
48 10	1 2	Shale, grey, medium soft	1 2								
49 10	1 0	COAL, dull with bright bds and rather shaly	9	1/BMR 31							
50 0	2	Shale, grey soft	2								
50 3	3	Shale, dark grey medium soft	3								
51 0	9	COAL, dull with many bright bands	9	2/BMR 31							
51 2½	2½	COAL, dull with bright bands	2½								
51 7	4½	Shale, brownish-grey, medium soft	4½								
52 10	1 3	COAL, dull with bright bands, fragmentary	1 3	3/BMR31							
55 2	2 4	Sandstone, grey very fine grained med.s.	2 0								
58 2	3 0	Sandstone, grey, f.grained w. c.gr. or shaly bands	2 10								

Hole completed

DONALDSONS (GMB)

typed 28.11.52

ANALYSTS COAL LOG.

BORE S.1. BLOOMFIELD.

Analysis No.	Depths.	Recovery.	Description.
69.	26'1½" - 28'11"	25"	Coal
70)	28'11" - 30'2"	7"	Coal
)	30'2" - 31'10"	12"	Coal
		6"	Clay shale
71	71'6" - 73'6"	22"	Coal
	73'6" - 75'4"	5"	Carb. shale
		13"	Shale
72	79'3" - 81'9½"	31"	Coal
73)	81'9½" - 84'3½"	12"	Coal
)		1"	Shale (included)
)		1"	Coal
)		1"	Shale (included)
)		13"	Coal
)	84'3½" - 85'3½"	5"	Inferior coal
		4"	Shale
	85'3½" - 89'0"	30"	Shale with sandy bands
		6"	Coal
		9"	Shale

	Proximate Analysis						Calorific Value
Reference Number	Hygroscopic Moisture %	Volatile Matter %	Fixed Carbon %	Ash %	Coke Nature	Ash Colour	B.Th.U's/lb. (Total)
1952/69	2.0	31.9	49.6	16.5	Cw.	Pink	12,050
70	2.1	35.4	50.8	11.7	Cs.	"	12,750
71	2.3	36.1	55.1	6.5	Cm.	"	13,500
72	2.0	31.9	50.5	15.6	Cw.	"	12,040
73	1.9	30.2	45.3	22.6	Cw.	"	10,980

BLOOMFIELD COAL SAMPLE ANALYSES.

Hole No.	Bur. Min. Resources Sample No.	Mines Dept. Analysis No. 1952/	Seam.	Depth of Sample.	Proximate Analysis: H. Moisture %	Volatile Matter %	Fixed Carbon %	Ash %	Coke Nature	Ash Colour	Calorific Value. B.Th.U's/lb. Total.
Bloomfield S2	1/S2	363	Big Ben	34'6"-39'2"	4.7	25.2	47.3	22.8	Mn.	Buff	8,710
	2/S2	364	Big Ben	39'8"-40'0½"	2.9	25.7	45.8	25.6	Mn.	Buff	10,070
S3 No samples	--			--							
S4	1/S4	365	Big Ben	69'0"-72'0"	2.5	34.8	52.3	10.4	Cw.	Buff	12,720
	2/S4	366	Big Ben	72'0"-75'0"	2.4	31.1	44.7	21.8	Cw.	Buff	11,060
	3/S4	367	Big Ben	75'0"-78'0"	2.3	32.2	53.4	12.1	Cw.	Buff	12,520
	4/S4	368	Big Ben	78'0"-78'9"	2.4	27.4	46.5	23.7	Af.	Buff	10,820
S5	1/S5	369	Donaldson's	50'8½"-54'0"	2.1	34.5	49.8	13.6	Cw.	Pink	12,300
	2/S5	370	"	54'0"-57'0"	2.3	37.1	50.6	10.0	Cw.	Pink	12,790
S6	1/S6	371	Donaldson's	42'6"-45'6"	2.2	35.4	52.7	9.7	Cw.	Pink	12,870
	2/S6	372	"	45'6"-48'6"	2.2	37.1	50.3	10.4	Cw.	Pink	12,740
	3/S6	373	Big Ben	129'6"-132'6"	2.3	32.8	51.6	13.3	Cw.	Buff	12,330
	4/S6	374	" "	132'6"-135'6"	2.2	34.5	49.0	14.3	Cw.	Buff	12,180
	5/S6	375	" "	135'6"-137'6"	2.4	30.5	50.5	16.6	Cw.	Grey	11,840
	6/S6	376	" "	137'6"-139'6"	2.1	28.4	43.8	25.7	Aw.	Pink	10,550
S7	1/S7	377	Big Ben	108'6"-111'10"	2.2	33.7	53.5	10.6	Cw.	Buff	12,740
S8	1/S8	378	Donaldson's	80'0"-83'0"	2.2	30.7	46.1	21.0	Cw.	Pink	11,210
	2/S8	379	"	83'0"-85'3"	2.3	36.9	51.6	9.2	Cm.	Pink	12,910
	3/S8	380	Big Ben	158'0"-161'3"	2.2	33.3	49.2	15.3	Cw.	Pink	12,050
	4/S8	381	" "	161'3"-164'6"	2.1	32.4	52.1	13.4	Cw.	Buff	12,360
	5/S8	382	" "	164'6"-169'6"	2.1	32.1	48.3	17.5	Cw.	Pink	11,740
S9	1/S9	383	Donaldson's	64'5"-66'9½"	2.0	31.4	49.4	17.2	Cw.	Buff	11,810
	2/S9	384	"	66'9½"-70'3½"	2.0	31.0	46.5	20.5	Cw.	Pink	11,320
	3/S9	385	Big Ben	98'11"-102'4"	2.1	35.6	52.8	9.5	Cw.	Pink	12,900
	4/S9	386	" "	102'4"-104'10"	2.5	36.5	53.5	7.5	Cm.	Buff	13,130
S10	1/S10	689	Big Ben	84'3"-86'11"	2.1	33.0	50.8	14.1	Cw.	Pink	12,320
	2/S10	690	" "	93'7"-96'8"	2.0	33.5	48.6	15.9	Cw.	Buff	12,070
	3/S10	691	" "	96'8"-97'11"	2.1	32.1	55.3	10.5	Cw.	Pink	12,870
S11	1/S11	452	Big Ben	68'7"-71'7"	2.5	36.8	52.7	8.0	Cm.	Pink	13,250
	2/S11	453	" "	76'4"-80'3½"	2.7	32.4	53.2	11.7	Cw.	Pink	12,600
S12	1/S12	454	Donaldson's	21'3"-24'3"	2.6	31.1	48.2	18.1	Cw.	Pink	11,660
	2/S12	455	"	24'3"-27'2"	2.5	33.5	50.8	13.2	Cw.	Pink	12,400
	3/S12	456	Big Ben	66'6"-68'7"	2.7	35.9	53.8	7.6	Cm.	Buff	13,270
	4/S12	457	" "	73'5"(?)-75'7"	2.4	31.1	48.4	18.1	Cw.	Buff	11,690
	5/S12	458	" "	76'0"-80'0"	2.4	30.9	51.1	15.6	Cw.	Buff	12,070
S16	1/S16	463	Big Ben	83'6"-86'6"	2.4	31.3	48.3	18.0	Cw.	Buff	11,700
	2/S16	464	" "	86'6"-89'6"	2.4	32.2	47.7	17.7	Cw.	Buff	11,750
	3/S16	465	" "	89'6"-94'0"	2.6	30.4	54.4	12.6	Cw.	Buff	12,500
S17	1/S17	466	Donaldson's	70'6"-73'7"	2.5	37.4	50.8	9.3	Cm.	Pink	13,040
	2/S17	467	Big Ben	131'7"-135'7"	2.6	31.1	50.5	15.8	Cw.	Pink	12,000
	3/S17	468	" "	135'7"-139'0"	2.6	33.1	52.1	12.2	Cm.	Pink	12,610
S18 No samples	--			--							
S19	1/S19	469	Donaldson's	30'4"-31'0"	3.0	29.0	47.6	20.4	Nc.	Pink	10,970
	2/S19	470	Donaldson's	33'2"-36'11"	2.9	30.7	45.9	20.5	Cw.	Buff	11,180
	3/S19	471	Big Ben ? Tomago Thin	105'5"-109'2"	2.5	34.7	50.7	12.1	Cm.	Pink	12,710
S20	1/S20	472	Donaldson's	71'8"-74'8"	2.6	27.0	40.8	29.6	Nc.	Pink	9,690
	2/S20	473	"	74'9"-76'6½"	3.0	32.7	43.8	20.5	Cw.	Pink	11,150

Hole No.	Bur.Min. Resources Sample No.	Mines Dept. Analysis No. 1952/	Seam	Depth of Sample.	Proximate Analysis H. Moisture %	Volatile Matter %	Fixed Carbon %	Ash %	Coke Nature	Ash Colour	Calorific Value B.Th.U's/lb. Total
Bloomfield S22	No samples	--		--							
S23	No samples	--		--							
BMR30	1/BMR30	2093	Donaldson's	17'5½"-20'8"	3.0	30.7	50.4	15.9	Af.	Pink	11,930
	2/BMR30	2094	"	20'8"-24'4½"	2.7	33.0	50.5	13.8	Cw.	Pink	12,360
BMR31	1/BMR31	2095	Donaldson's	48'10"-49'10"	2.1	31.2	45.0	21.7	Af.	Pink	11,120
	2/BMR31	2096	"	50'3"-51'2½"	2.2	29.6	44.5	23.7	Af.	Pink	10,810
	3/BMR31	2097	"	51'7"-52'10"	2.1	29.6	38.7	29.6	Af.	Pink	9,870

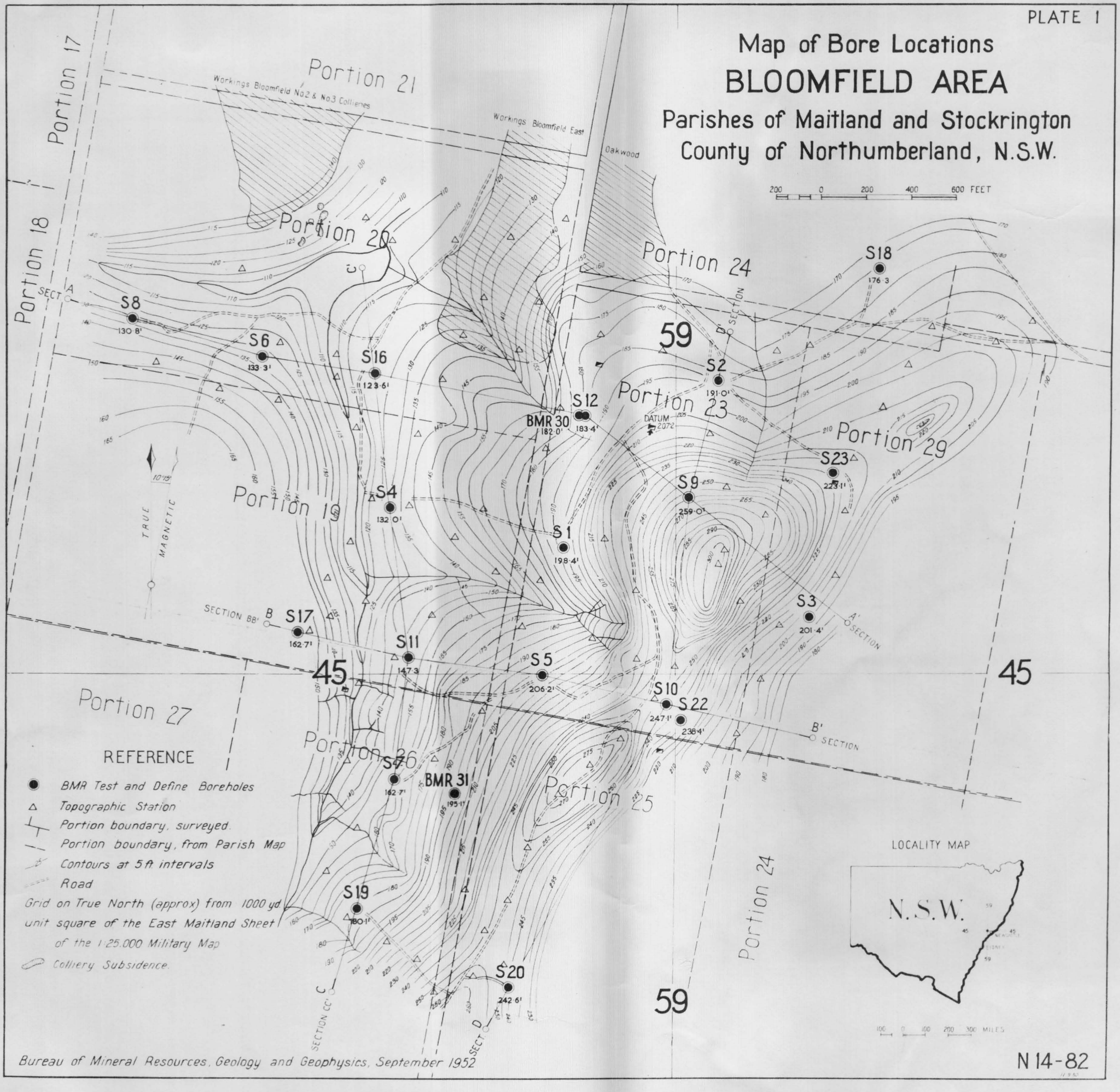


PLATE 1
Map of Bore Locations
BLOOMFIELD AREA
Parishes of Maitland and Stockrington
County of Northumberland, N.S.W.
200 0 200 400 600 FEET
Portion 17
Portion 18
Portion 19
Portion 20
Portion 21
Portion 23
Portion 24
Portion 25
Portion 26
Portion 27
Portion 29
Workings Bloomfield No2 & No3 Collieries
Workings Bloomfield East
Oakwood
TRUE
MAGNETIC
10°15'
SECT A
SECTION B
SECTION BB'
SECTION C
SECTION CC'
SECT D
SECTION D'
SECTION A'
SECTION B'
59
45
S1 198·4'
S2 191·0'
S3 201·4'
S4 132·0'
S5 206·2'
S6 133·3'
S7 162·7'
S8 130·8'
S9 259·0'
S10 247·1'
S11 147·3
S12 183·4'
S16 123·6'
S17 162·7'
S18 176·3
S19 180·1'
S20 242·6'
S22 238·4'
S23 223·1'
BMR 30 182·0'
BMR 31 195·1'
DATUM 207·2
REFERENCE
BMR Test and Define Boreholes
Topographic Station
Portion boundary, surveyed.
Portion boundary, from Parish Map
Contours at 5 ft intervals
Road
Grid on True North (approx) from 1000 yd unit square of the East Maitland Sheet of the 1:25.000 Military Map
Colliery Subsidence.
LOCALITY MAP
N.S.W.
100 0 100 200 300 MILES
Bureau of Mineral Resources, Geology and Geophysics, September 1952
N 14-82

PLATE 2

STRUCTURAL MAP OF DONALDSONS SEAM

BLOOMFIELD AREA

N.S.W.

SCALE

200 0 200 400 600 FEET

WORKINGS BLOOMFIELD N°2 & N°3 COLLIERIES

S 18 176·3'

S 8 130·8'

S 6 133·3'

S 16 123·6'

BMR30 182·0'

S 12 183·4'

S 2 191·0'

S 23 223·1'

S 4 132·0'

S 9 259·0'

S 1 198·4'

S 3 201·4'

S 17 162·7'

S 11 147·3'

S-5 206·2'

S 10 247·1'

S 22 238·4'

S 7 162·7'

BMR 31 195·1'

S 19 180·1'

S 20 242·6

10°15'

True North

Magnetic North

Faulted ?

REFERENCE

- S17 162·7' — BMR Test and Define Borehole.
- Approximate outcrop of Donaldson Seam.
- ------ Limit of suggested Open Cut.
- —70— Structure contours on roof of Donaldson Seam.
- —20— Overburden Isopachs.
- Colliery Subsidence.

LOCALITY MAP

Bureau of Mineral Resources, Geology and Geophysics, July 1954

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MK

Reduce AC(24") to AB(12")

PLATE 3

STRUCTURAL MAP OF BIG BEN SEAM

BLOOMFIELD AREA

N.S.W.

SCALE

200 0 200 400 600 FEET

WORKINGS BLOOMFIELD SOUTH COLLIERIES

OAKWOOD

S 18 176·3'

S 8 130·8'

S 6 133·3'

S 16 123·6'

BMR30 182·0'

S 12 183·4'

S 2 191·0'

S 23 223·1'

S 9 259·0'

S 4 132·0'

S 1 198·4'

S 17 162·7'

S 11 147·3'

S-5 206·2'

S 10 247·1'

S 22 238·4'

S 3 201·4'

S 7 162·7'

BMR 31 195·1'

S 19 180·1'

S 20 242·6'

Faulted

True North

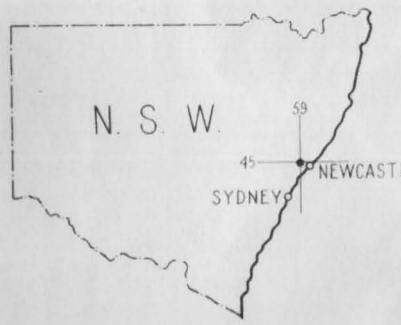
10°15'

Magnetic North

REFERENCE

- S17 162·7' — B.M.R. Test and Define Borehole
- Probable Outcrop of Big Ben Seam
- Limit of suggested Open Cut.
- Possible Open Cut zone on Donaldsons Seam above Big Ben Seam.
- 40 — Structure contours on roof of Big Ben Seam
- 140 — Possible structure contours on roof of Big Ben Seam.
- 60 — Overburden Isopachs (including Donaldsons Seam and Cover)
- Colliery Subsidence

LOCALITY MAP



Bureau of Mineral Resources, Geology and Geophysics, July 1954

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