

FOLDER 3

Bureau of Mineral Resources, Geology and Geophysics

OPEN CUT COAL INVESTIGATIONS IN NEW SOUTH WALES

CESSNOCK MUSWELLBROOK REGION

HOWICK AREA REPORT

Records 1953/47

Folder 3.

Graphic logs of Test Boreholes No's. 19-76
in the Central & Southern Prospects of the
Parnell's Creek Subarea.

PARNELL'S CREEK SUBAREA

(Central Prospect)

List of Approximate Locations of Test Boreholes
from Point of Origin No.3 (SE Cnr. Portion 11,
NE Cnr. Portion 5, Parish of Howick.) By True
Bearings and Distances in Feet.

19T	133°00'	6010	'	47T	91°50'	3840	'
20T	109°00'	3870	'	48T	65°45'	5370	'
21T	161°10'	3020	'	49T	76°20'	4500	'
22T	125°30'	6440	'	50T	65°00'	6440	'
23T	121°00'	6190	'	51T	91°20'	6270	'
24T	111°00'	7670	'	52T	197°10'	1850	'
25T	168°50'	4190	'	53T	95°10'	2630	'
26T	123°20'	3250	'	54T	124°45'	1550	'
27T	150°45'	3960	'	55T	103°30'	1740	'
28T	136°20'	3270	'	56T	77°00'	7010	'
29T	148°15'	4930	'	57T	151°00'	1920	'
30T	99°10'	4190	'	58T	See 41T.		
31T	130°40'	4630	'	59T	See 57T.		
32T	98°30'	4630	'	60T	123°40'	7830	'
33T	127°40'	4020	'	61T	113°30'	7930	'
34T	170°40'	4780	'	62T	104°20'	7970	'
35T	117°15'	4140	'	63T	129°45'	7880	'
36T	121°50'	7190	'	64T	108°00'	8200	'
37T	106°00'	4690	'	65T	107°50'	8800	'
38T	119°15'	8050	'	66T	119°20'	8940	'
39T	91°40'	4630	'	67T	115°00'	8600	'
40T	133°30'	7190	'	68T	113°00'	8210	'
41T	143°20'	3620	'	69T	111°50'	8860	'
42T	52°20'	4800	'	70T	96°15'	8960	'
43T	60°30'	5680	'	71T	101°15'	8060	'
44T	137°10'	2420	'	72T	120°15'	8650	'
45T	83°00'	3910	'	73T	123°10'	8900	'
46T	71°30'	5100	'	74T	126°10'	7460	'
		76T	69°15'	1850	'		

(Southern Prospect)

Approximate Location from Point of Origin No.4.
(Howick Trig. Station.)

75T 61°00' 6050'

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 19T Elevation: 533.3' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 31.8.52 Finished: 2.9.52 Depth: 130' 0"

STRATIGRAPHIC LOG (1"-10')

Greywacke & sandstone

21' 4 $\frac{1}{2}$ "

21' 4 $\frac{1}{2}$ "
 22' 9"

Seam Q

Clst. & slst. w. bands
 of coal.

19' 0 $\frac{1}{2}$ "

40' 5"

Gw. w. a slst band.

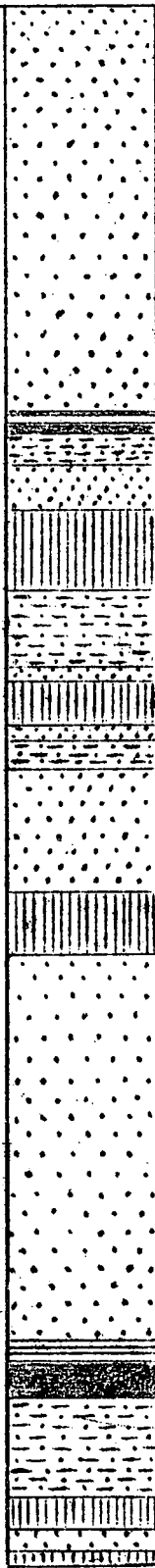
30' 7 $\frac{1}{2}$ "

71' 0 $\frac{1}{2}$ "
 72' 3 $\frac{1}{2}$ "
 74' 3"

Seam N
 11' 11"

Coal & claystone

82' 11 $\frac{1}{2}$ "



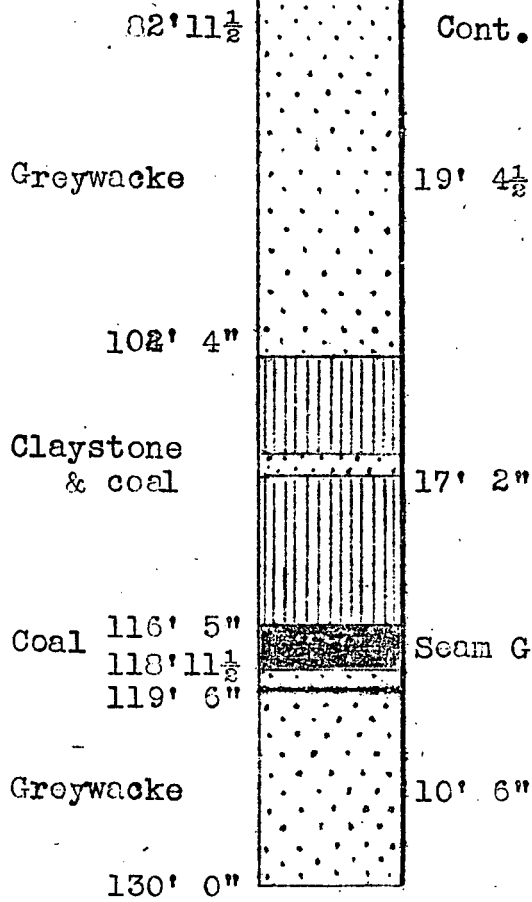
COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 19T Elevation: 533.3' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 31.8.52 Finished: 2.9.52 Depth: 130' 0"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



Coal dull & bright bdd.
 with a few bands of
 carbonaceous shale.

116' 5"



118' 11 1/2"

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 20T

Elevation: 453.4' ASL

Reference: BMR Map N14/110,

June 1953

Datum: Standard

Begun: 1.9.52

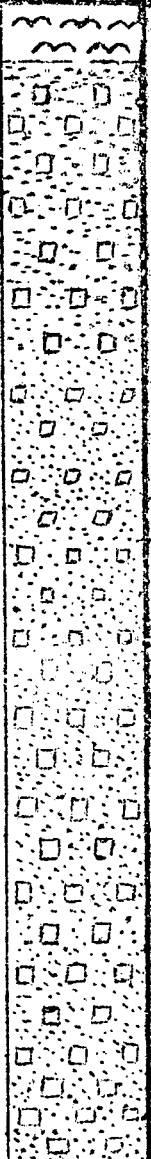
Finished: 9.9.52

Depth: 130' 0"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')

Soil, sandy 5' 0"



Gw. & sandstone 57' 8"

Claystone 8' 3"

Coal (see detail) 7' 8 3/4"

Gw. w. bds. of slst. clst. slst. coal band. 14' 10 1/4"

62' 8"

70' 11"

78' 7 3/4"

93' 6"

70' 11"

HM	V	FC	Ash	BThU
4.8	33.6	54.1	7.5	12,980

Coal brt. w. d. bands pyritif.

2' 1"

73' 0"

4.8	35.8	53.4	6.2	12,300
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Coal dull fusinitic bds. shaly, cleaved.

2' 6"

75' 6"

4.4	35.2	51.1	9.3	12,890
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Coal d. w. t. brt. bds. fusinitic, shaly.

1' 6"

77' 0"

4.5	36.3	50.2	9.0	12,970
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Coal d. w. b. bds. fusinitic fractured.

1' 7 3/4"

78' 7 3/4"

STRATIGRAPHIC LOG (1"-10')

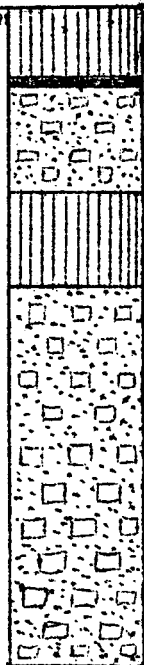
93' 6"

Cont. ? Middle Liddell Seam

36' 6"

Gw. w. bds. of slst. clst. slst. & coal bd.

130' 0"



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 21T

Elevation: 494.3' ASL

Reference: BMR Map N14/110, June 1953

Datum: Standard

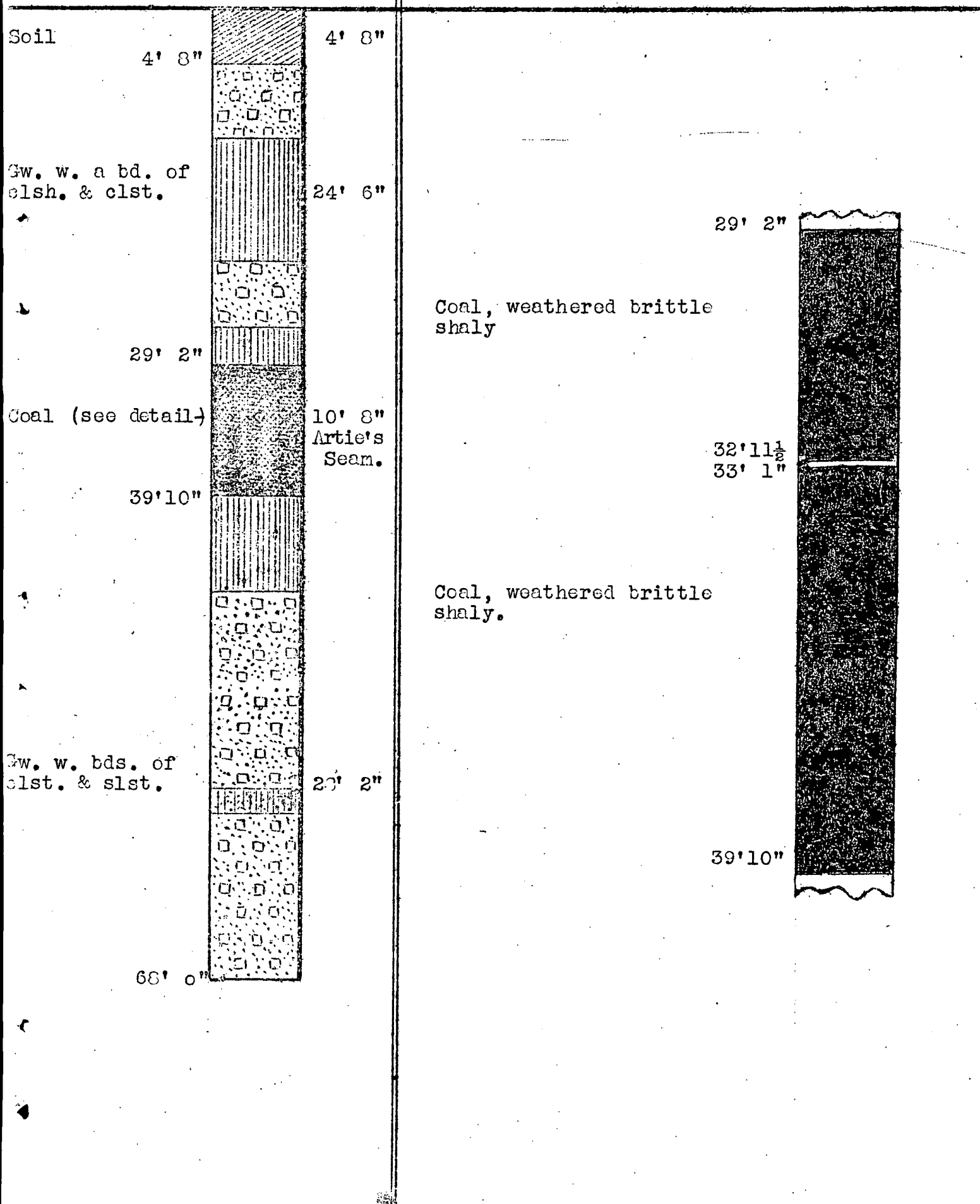
Begun: 2.9.52

Finished: 9.9.52

Depth: 135' 9"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



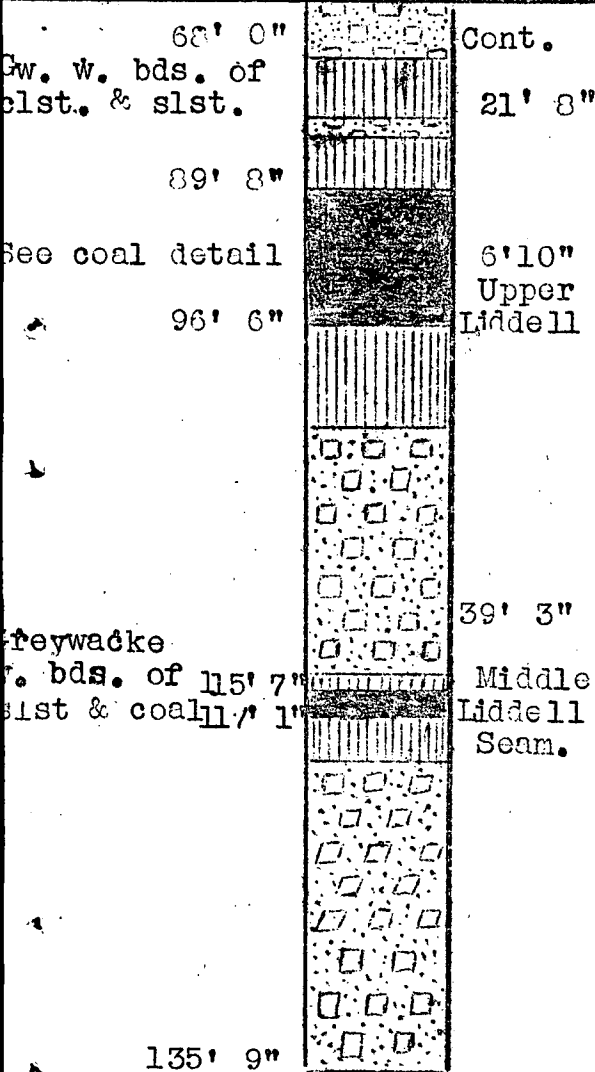
COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

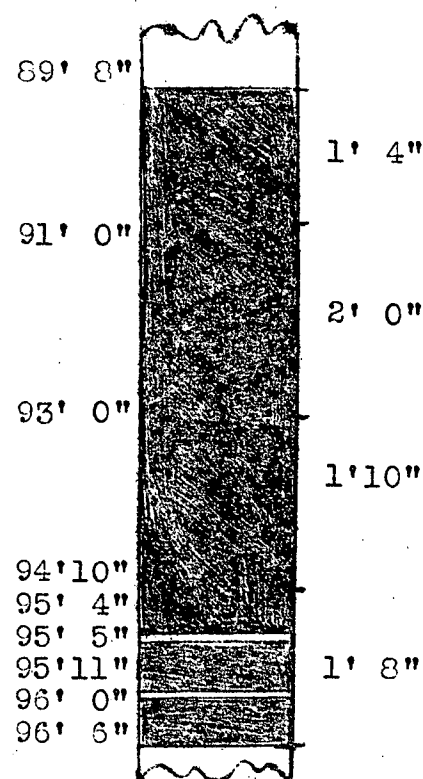
Area: Parnell's Creek Hole No: BMR 21T Elevation: 494.3' ASL
 Reference: BMR Map N14/110, June 1953 Datum: Standard
 Begun: 2.9.52 Finished: 9.9.52 Depth: 135' 9"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



HM	V	FC	Ash	BThU
3.4	32.9	53.0	10.7	12,630
Coal mainly dull				
3.6	37.0	53.5	5.9	13,570
Coal as above.				
3.3	37.5	53.1	6.1	13,590
Coal mainly d. w. brt. bds.				
3.5	35.4	50.1	11.0	12,770
Coal dull & bright banded.				



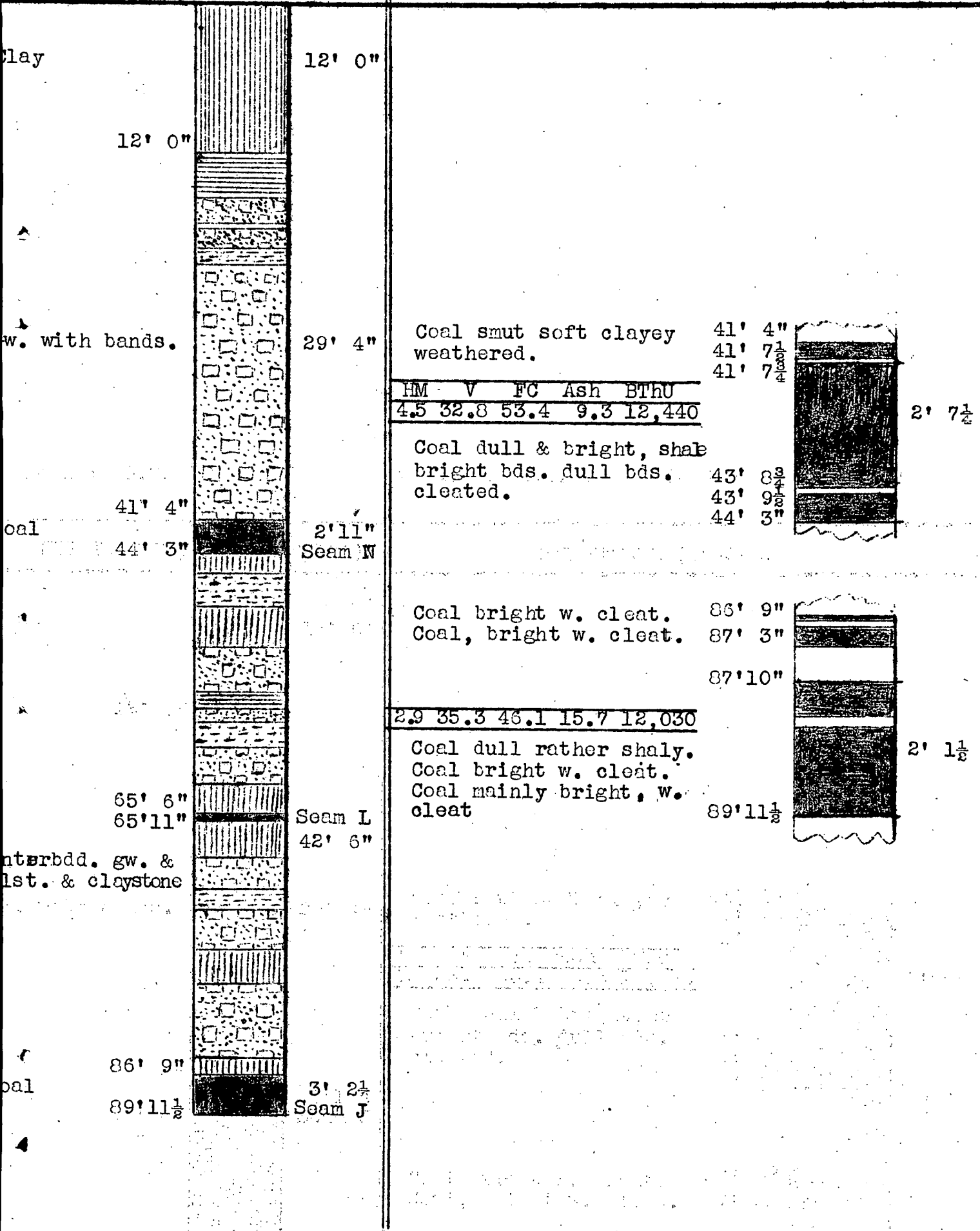
COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 22T Elevation: 535.9' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 3.9.52 Finished: 6.9.52 Depth: 130' 0"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 22T

Elevation: 535.9' ASL

Reference: BMR Map N14/110,

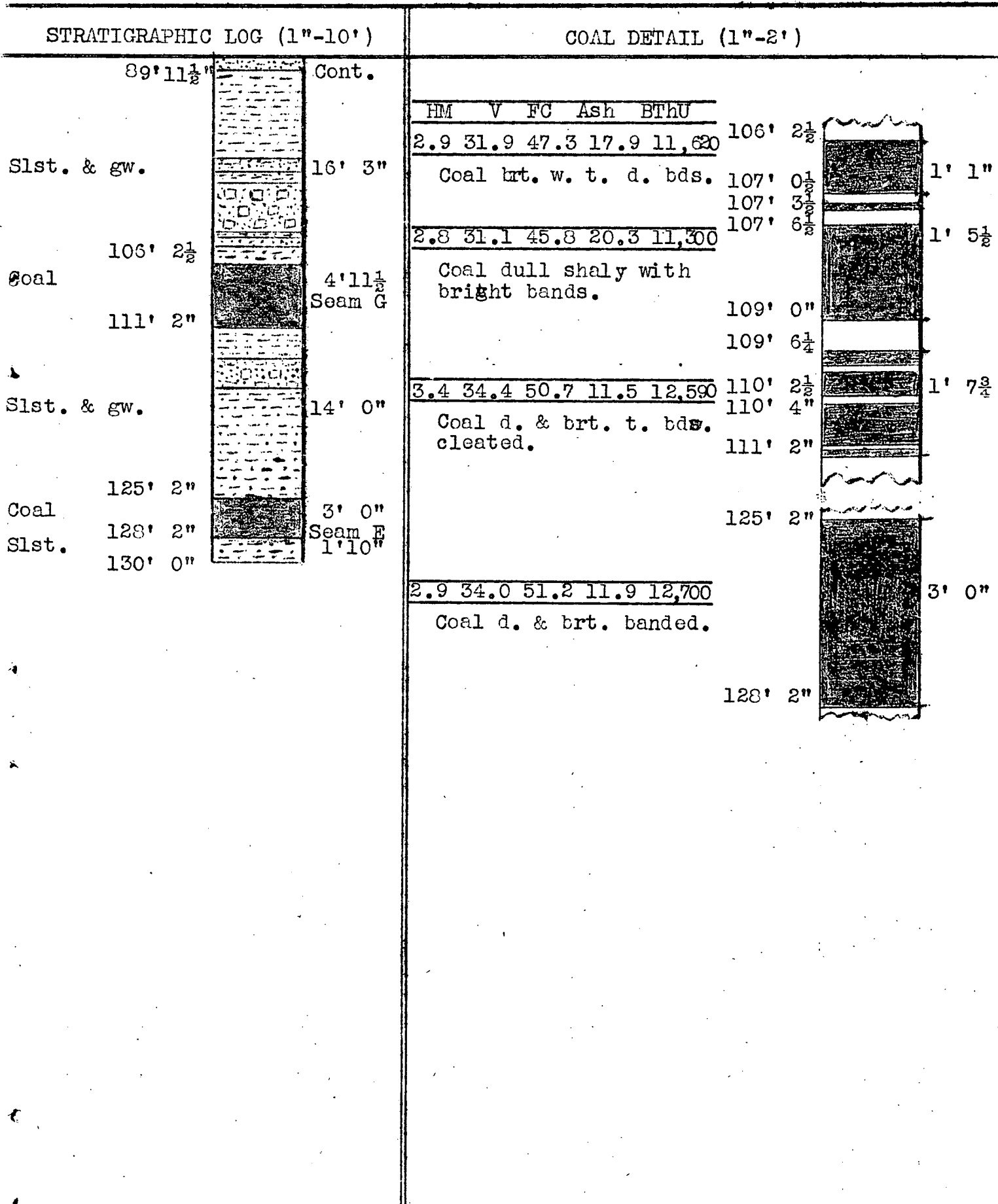
June 1953.

Datum: Standard

Begun: 3.9.52

Finished: 6.9.52

Depth: 130' 0"

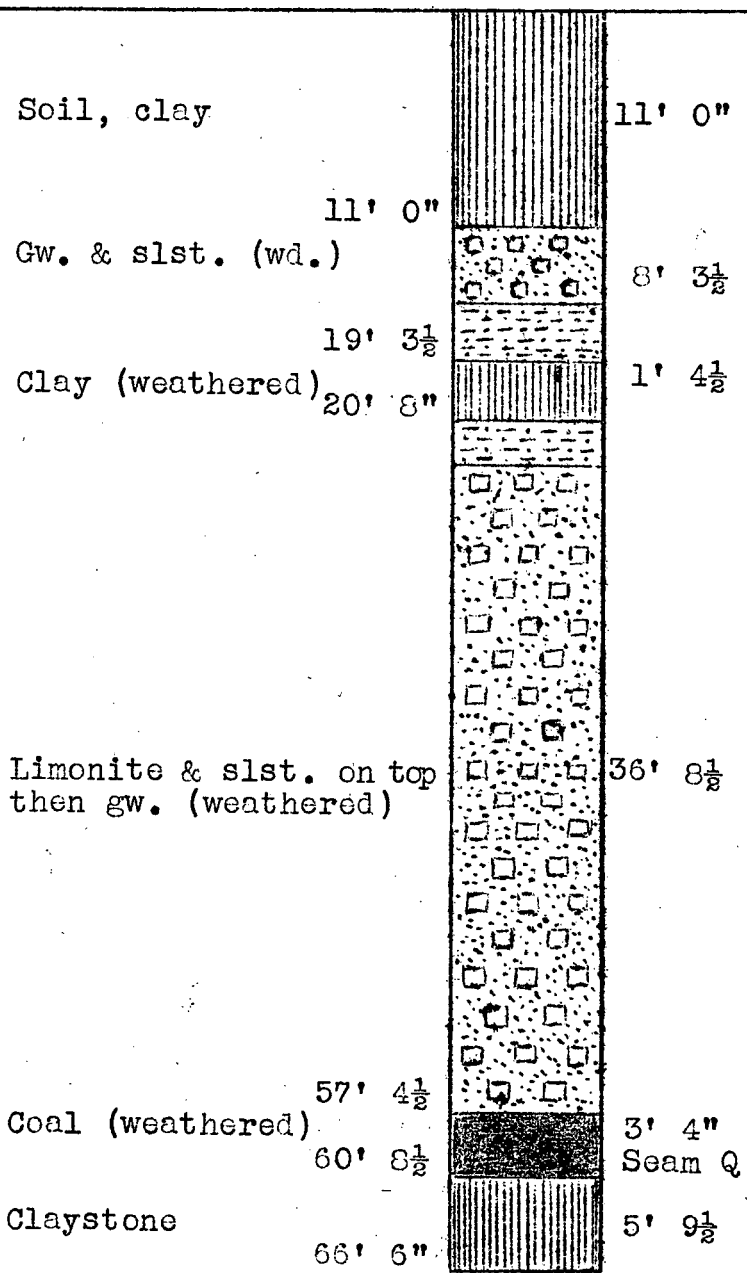


COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 23T Elevation: 577.7' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 6.9.52 Finished: 9.9.52 Depgh: 66' 6"

STRATIGRAPHIC ICG (1"-10')



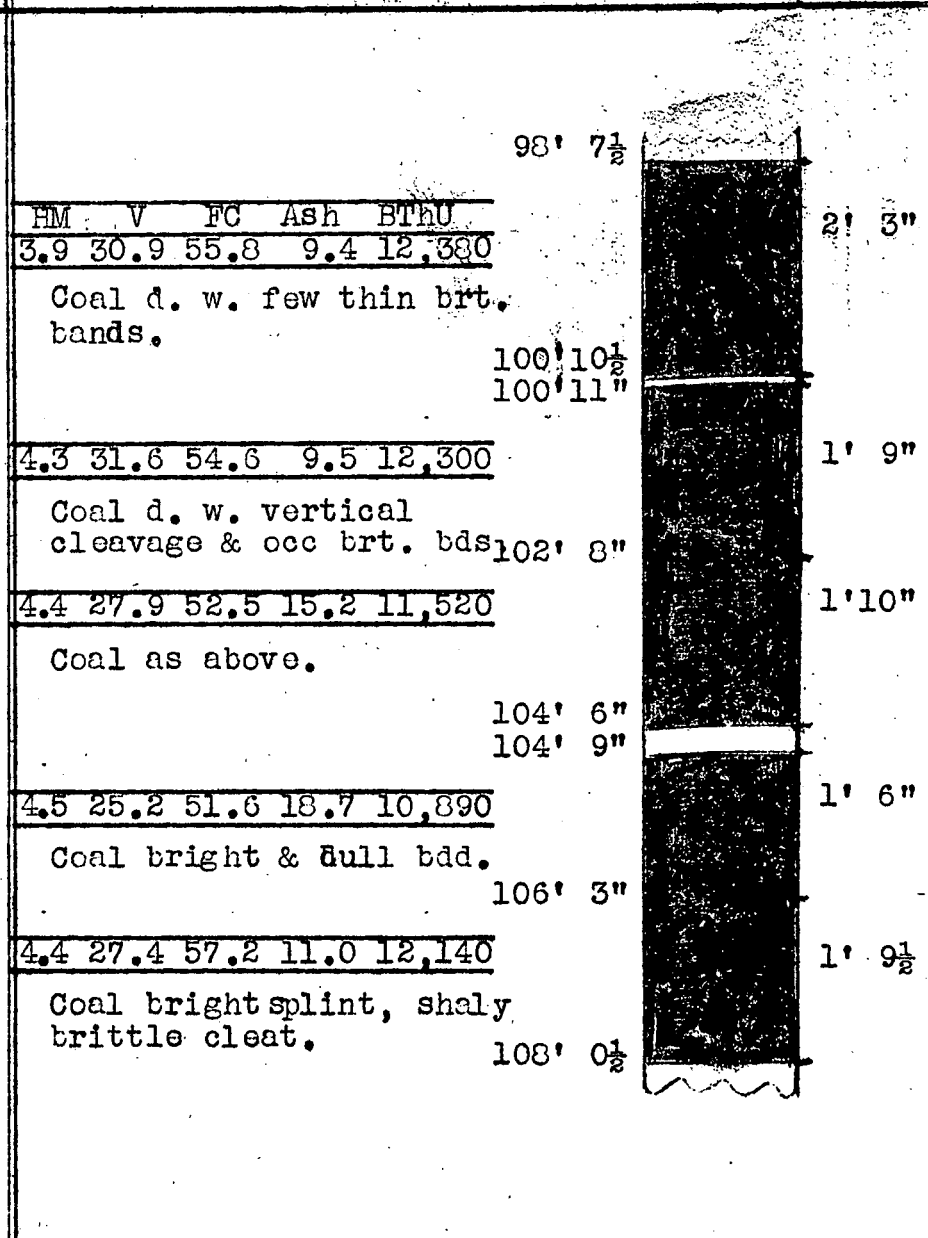
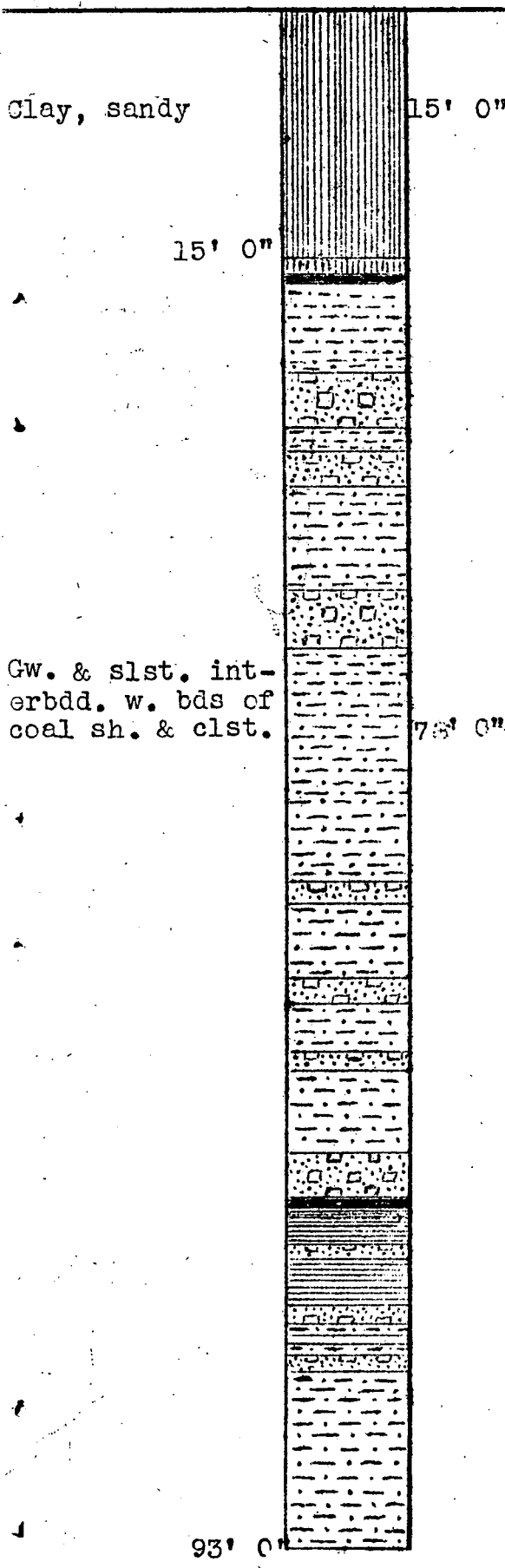
COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

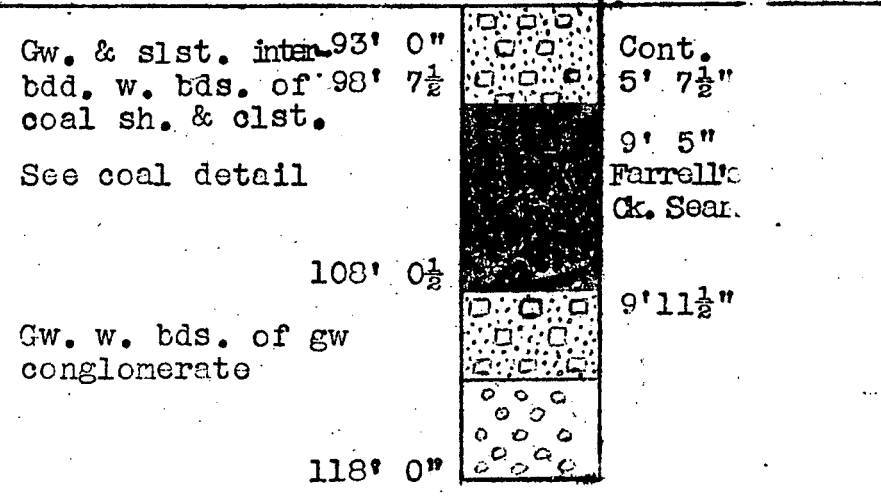
Area: Parnell's Creek Hole No. BMR 24T Elevation: 569.3' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 9.9.52 Finished: 13.9.52 Depth: 118' 0"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



STRATIGRAPHIC LOG (1"-10')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 25T

Elevation: 504.5' ASL

Reference: BMR Map N14/110, June 1953.

Datum: Standard

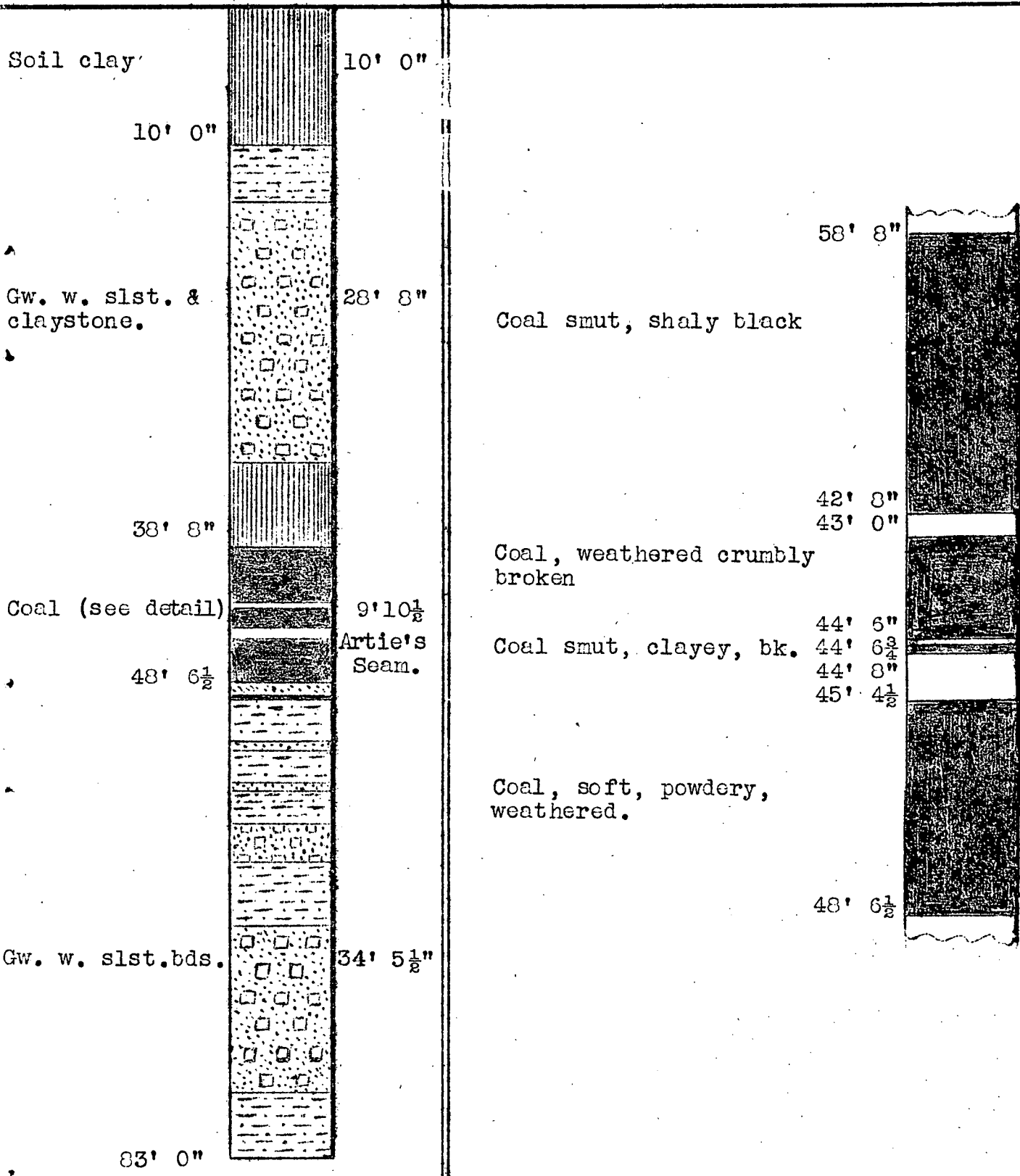
Begun: 10.9.52

Finished: 15.9.52

Depth: 130' 0"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



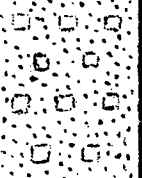
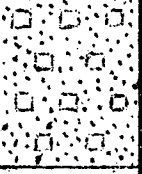
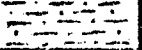


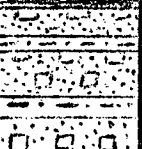

COMMONWEALTH OF AUSTRALIA

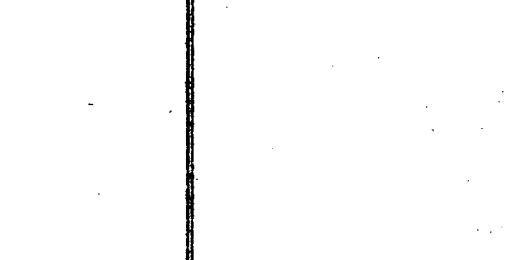
Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 25T Elevation: 504.5' ASL
 Reference: BMR Map N14/110, June 1953 Datum: Standard
 Begun: 10.9.52 Finished: 15.9.52 Depth: 130' 0"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')

33' 0"		Cont.
Gw. w. slst. bands		21' 3"
104' 3"		Coal
(see detail)		7' 9"
112' 0"		Upper Liddell Seam.
Gw. with slst. bds.		8' 0"
130' 0"		

Coal, bright	104' 3"	
	104' 7"	
Coal	104' 7 1/2"	
	106' 6"	
		2' 0"
		2' 8"
		10"

HM	V	FC	Ash	BTHU
3.0	34.4	54.9	7.7	12,970
3.1	36.7	50.5	9.7	12,710
2.8	36.0	49.2	12.0	12,420

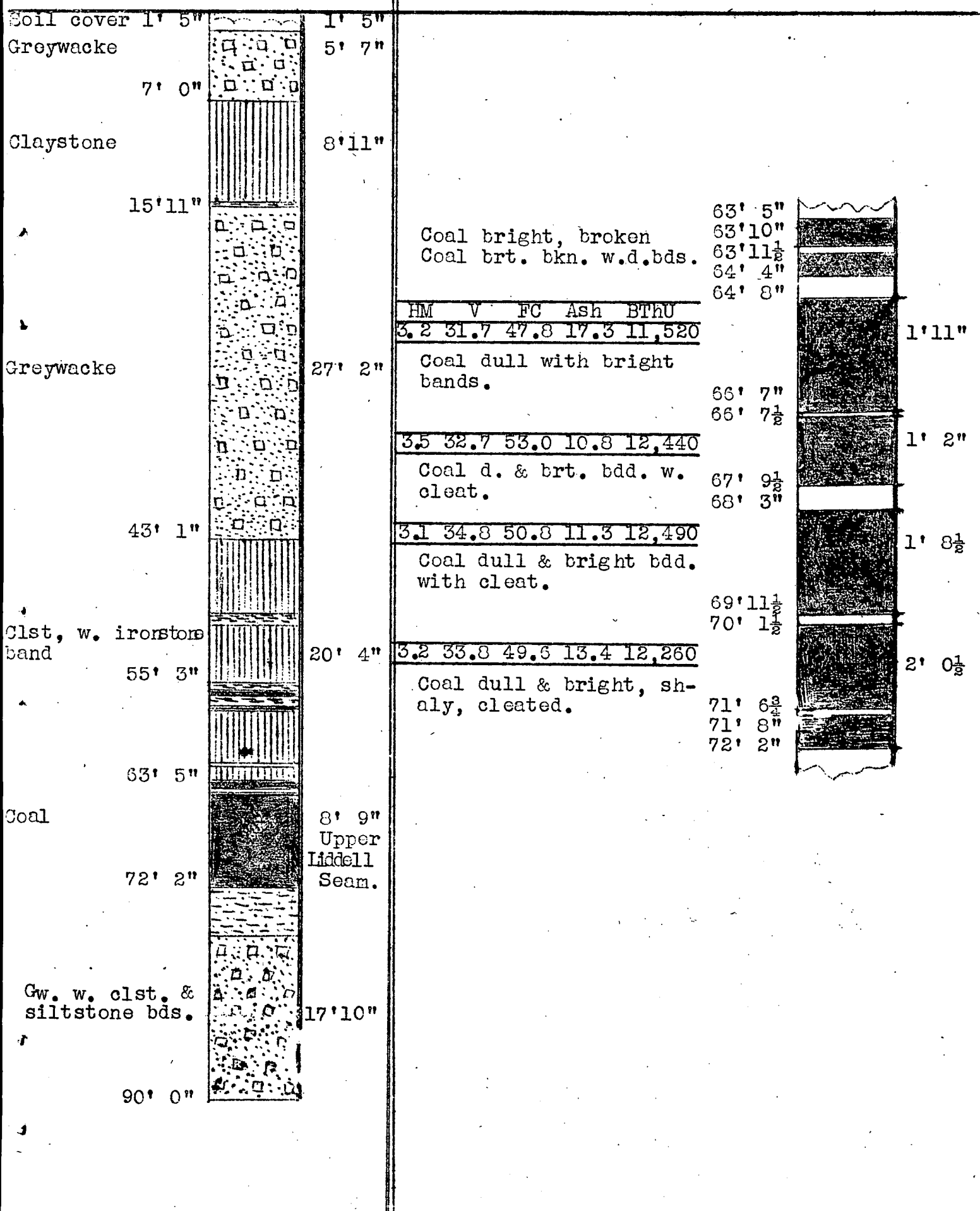
COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 26T Elevation: 529.0' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 10.9.52 Finished: 18.9.52 Depth: 133' 0"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')




COMMONWEALTH OF AUSTRALIA

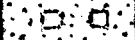
Bureau of Mineral Resources, Geology and Geophysics

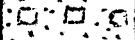
Area: Parnell's Creek Hole NO: BMR 26T Elevation: 529.0' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 10.9.52 Finished: 13.9.52 Depth: 138' 0"

STRATIGRAPHIC LOG (1"-10')

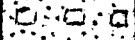
COAL DETAIL (1"-2')

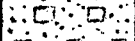
90' 0"  Cont.







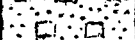


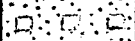


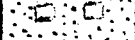


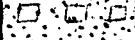


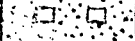


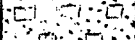


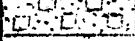


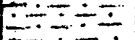


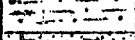











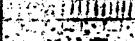


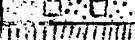


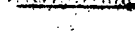




































































Gw. w. clst. & slst. bands.

121' 2 1/2"

127' 0"

131' 10 3/4"

138' 0"

Gw. & clst.

Cont.

31' 2 1/8"

Lower Liddoll Seam.

7' 1 1/2"

127' 0"

HM	V	FC	Ash	BThU
3.0	38.6	53.8	4.6	13,570

Coal bright with thin dull bands.

129' 3"

3.0	31.7	55.0	10.3	12,680
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Coal d. w. brt. bds.

130' 4"

130' 5"

131' 1"

131' 1 3/4"

131' 10 3/4"

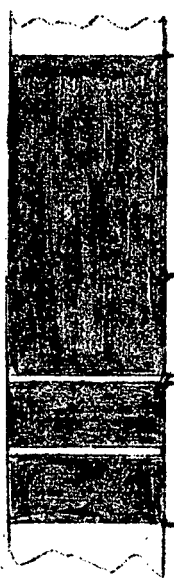
2.9	34.4	47.3	15.4	12,000
-----	------	------	------	--------

Coal bright w. thin dull bands, cleated.

2' 3"

1' 1"

1' 5 3/4"

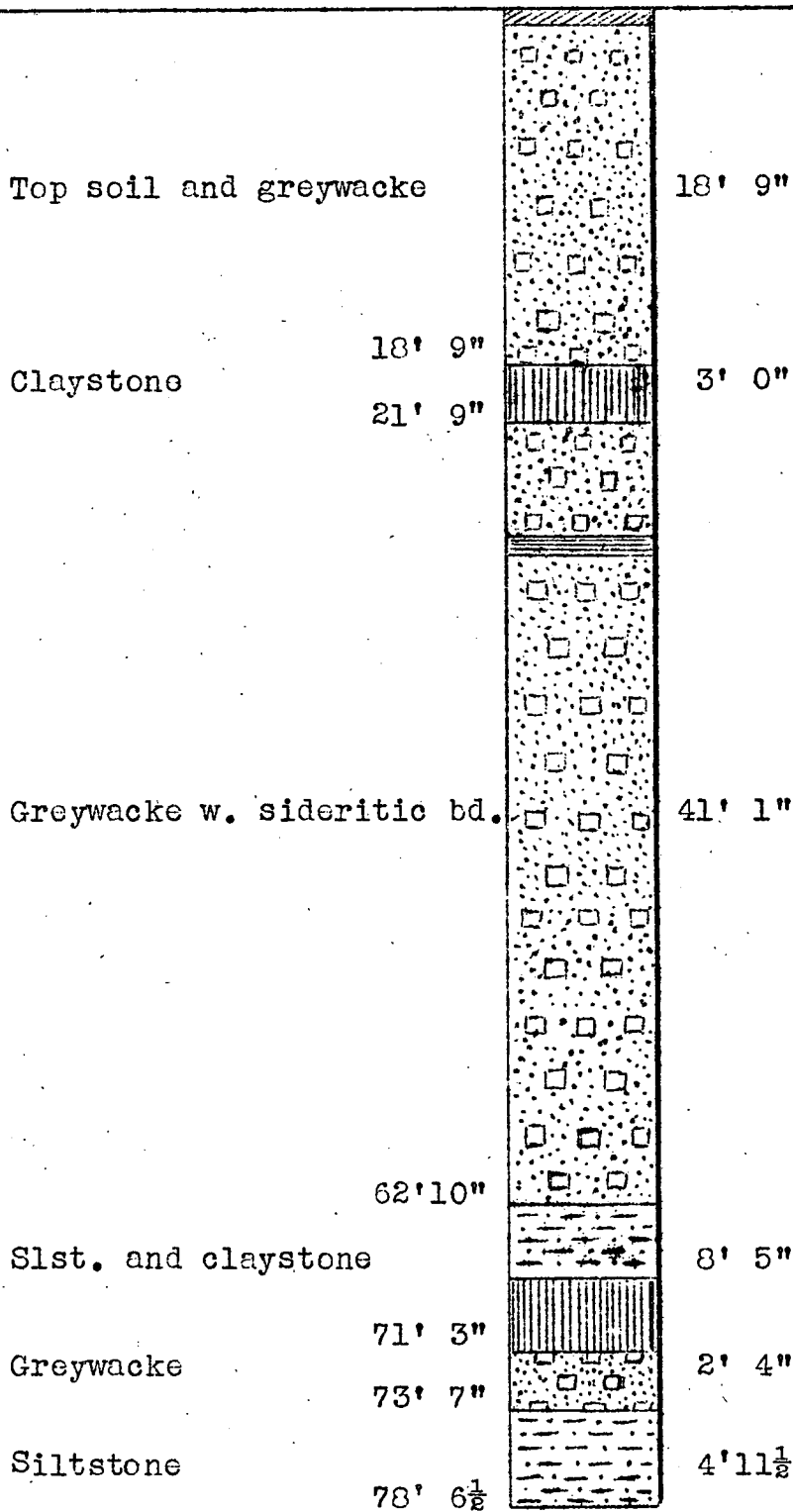


COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 27T Elevation: 430.2' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 15.9.52 Finished: 3.10.52 Depth: 125' 0"

STRATIGRAPHIC LOG (1"-10')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 27T

Elevation: 430.2' ASL

Reference: BMR Map N14/110, June 1953.

Datum: Standard

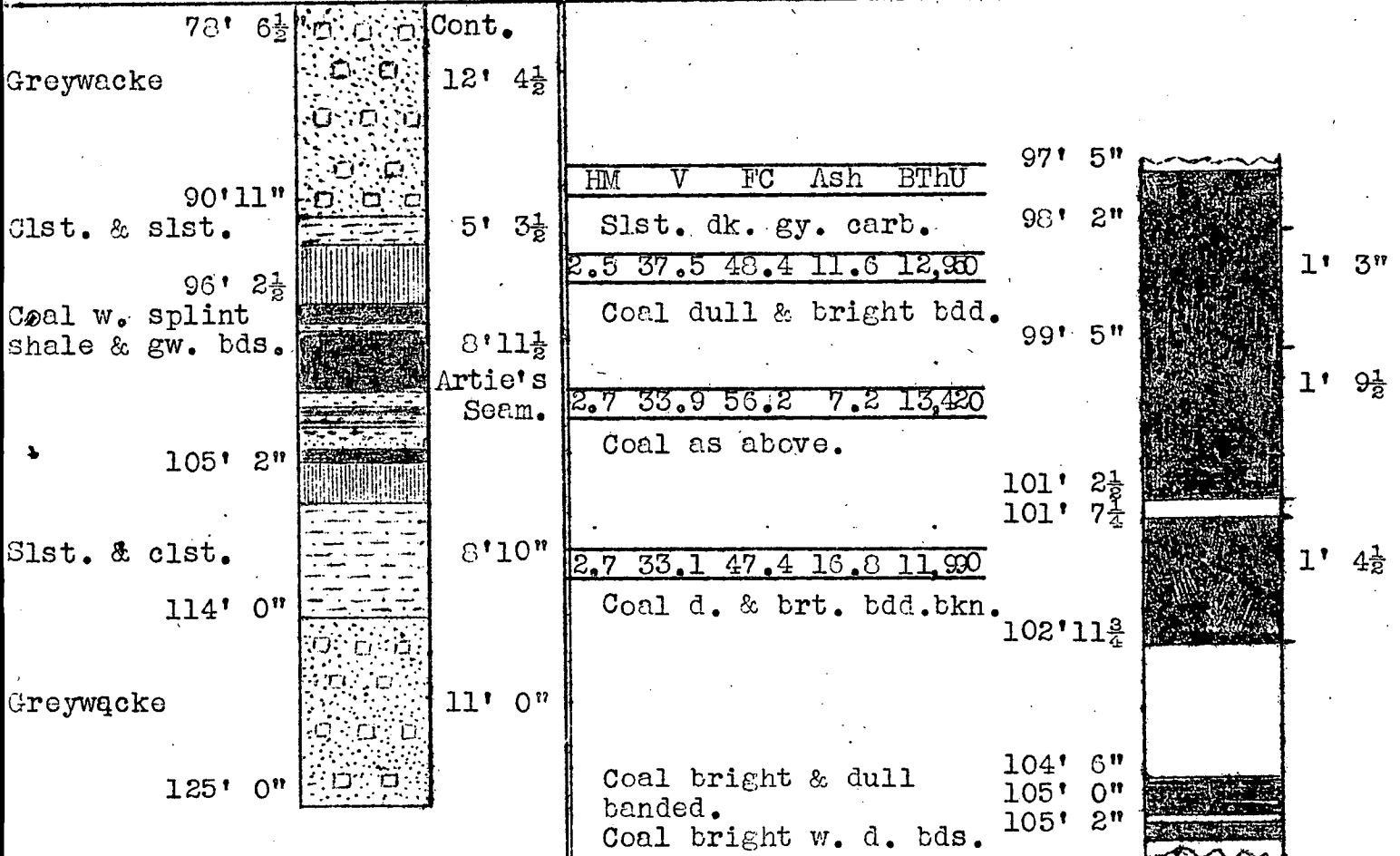
Begun: 15.9.52

Finished: 3.10.52

Depth: 125' 0"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



HM	V	FC	Ash	BThU
2.5	37.5	48.4	11.6	12.90
2.7	33.9	56.2	7.2	13.420
2.7	33.1	47.4	16.8	11.90

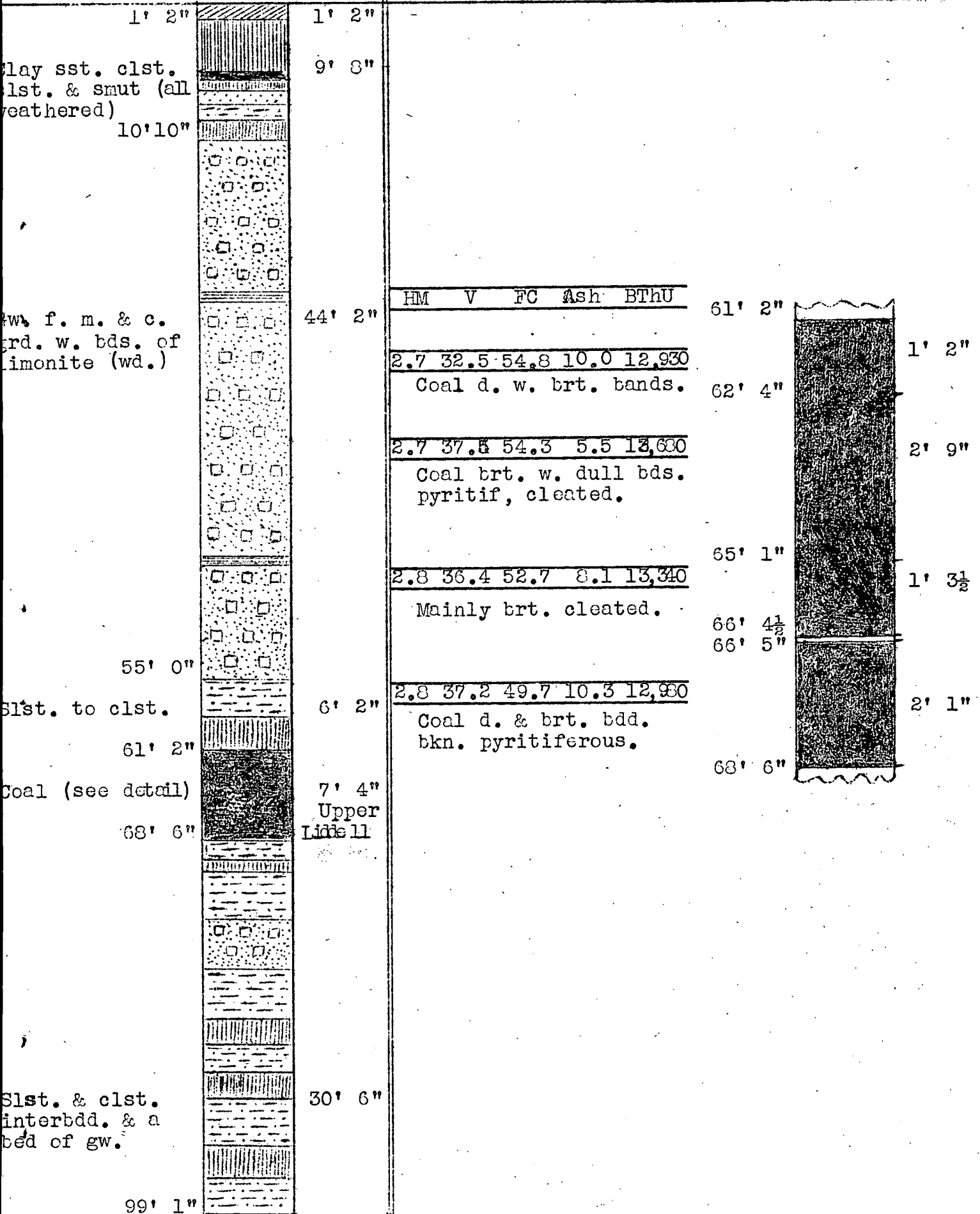
COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 28T Elevation: 460.9' ASL
Reference: BMR Map N14/110, June 1953. Datum: Standard
Begun: 19.9.52 Finished: 25.9.52 Depth: 147' 0"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 28T

Elevation: 450.9'

Reference: BMR Map N14/110, June 1953.

Datum: Standard

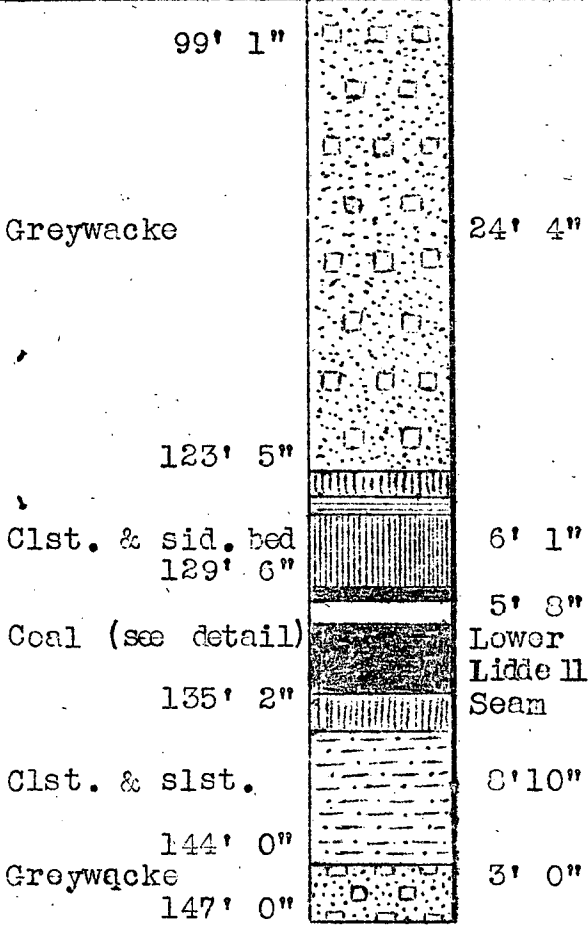
Begun: 19.9.52

Finished: 25.9.52

Depth: 147' 0"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



Coal dull some bright bds. in lower half. 129' 6"

130' 1 1/2"

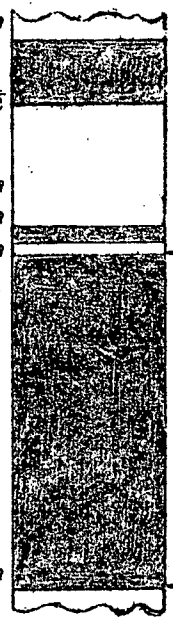
Coal d. & brt. bkn. 131' 5"

131' 7"

131' 9"

HM	V	FC	Ash	BThU
2.8	35.6	51.1	10.5	12.950

Coal dull & bright banded. 135' 2"



3' 5"

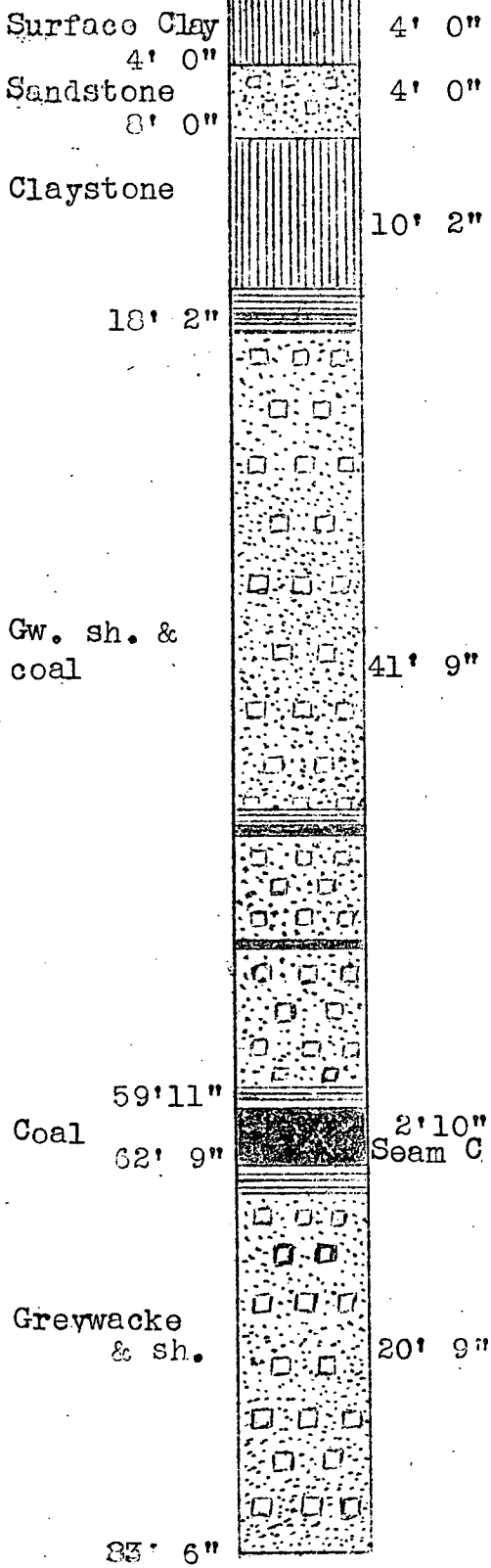
COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

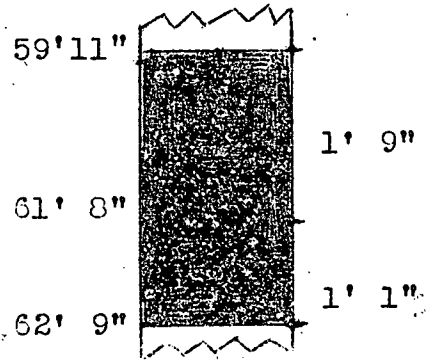
Area: Parnell's Creek Hole No: BMR 29T Elevation: 468.3' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 23.9.52 Finished: 30.9.52 Depth: 150' 5"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



HM	V	FC	Ash	BThU
2.5	29.5	47.2	20.8	11,280
Coal mostly brt. d. & somewhat weathered.				
2.9	33.3	49.2	14.6	12,200
Coal, bright.				



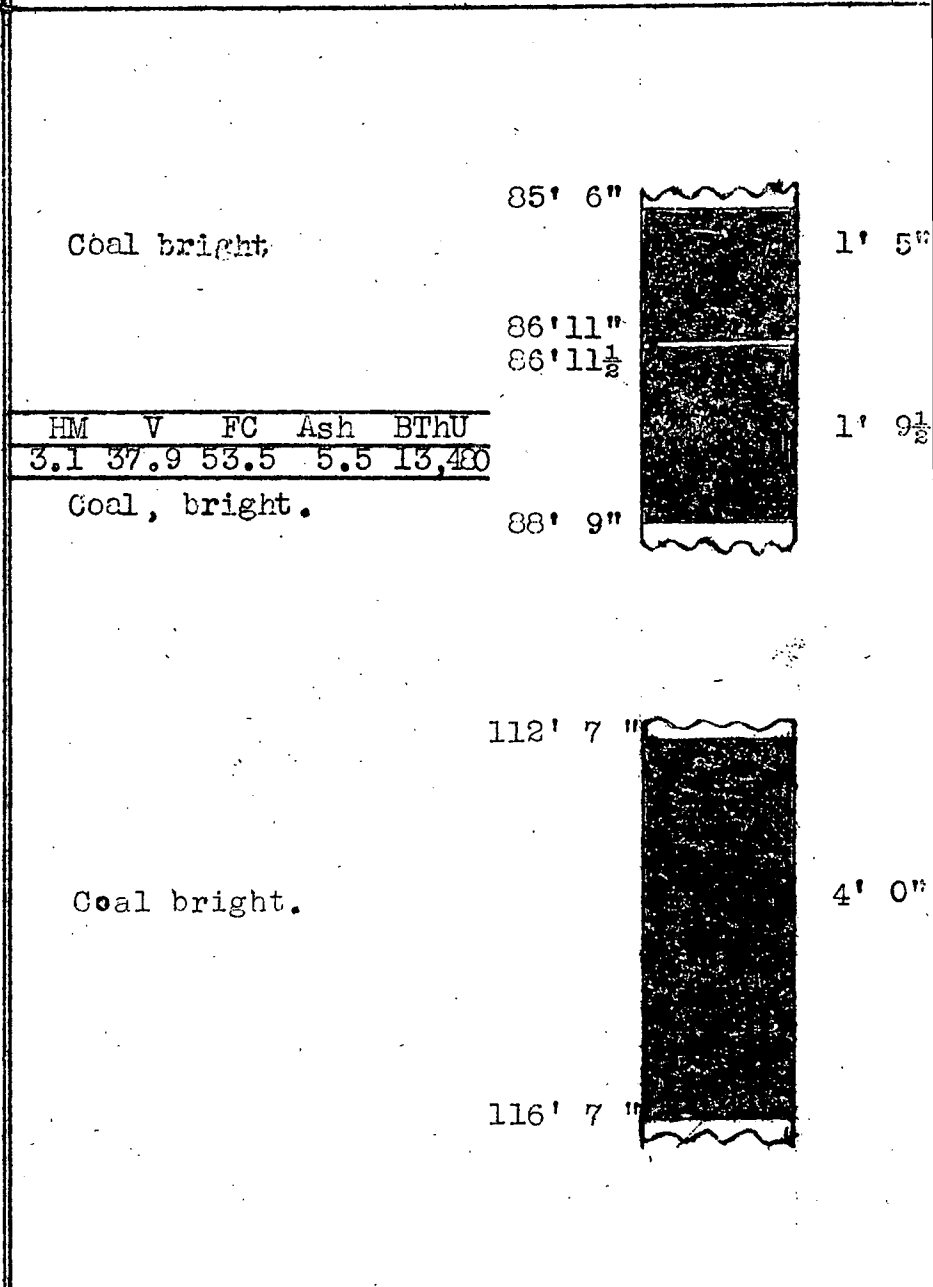
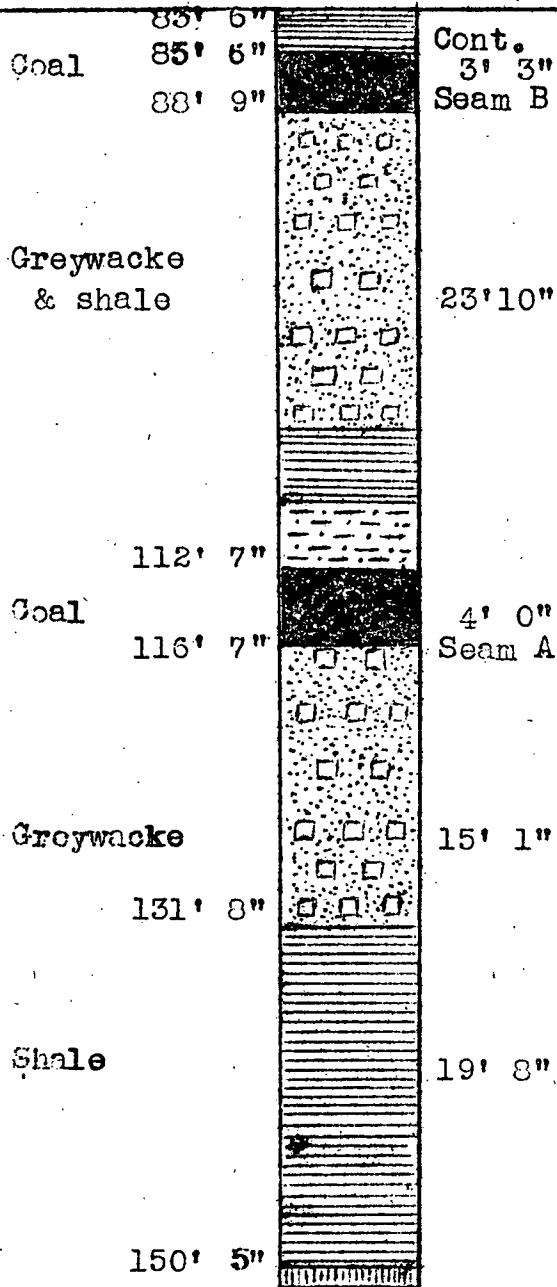
COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 29T Elevation: 480.3' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 23.9.52 Finished: 30.9.52 Depth: 150' 5"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 30T

Elevation: 456.4' ASL

Reference: BMR Map N14/110, June 1953.

Datum: Standard

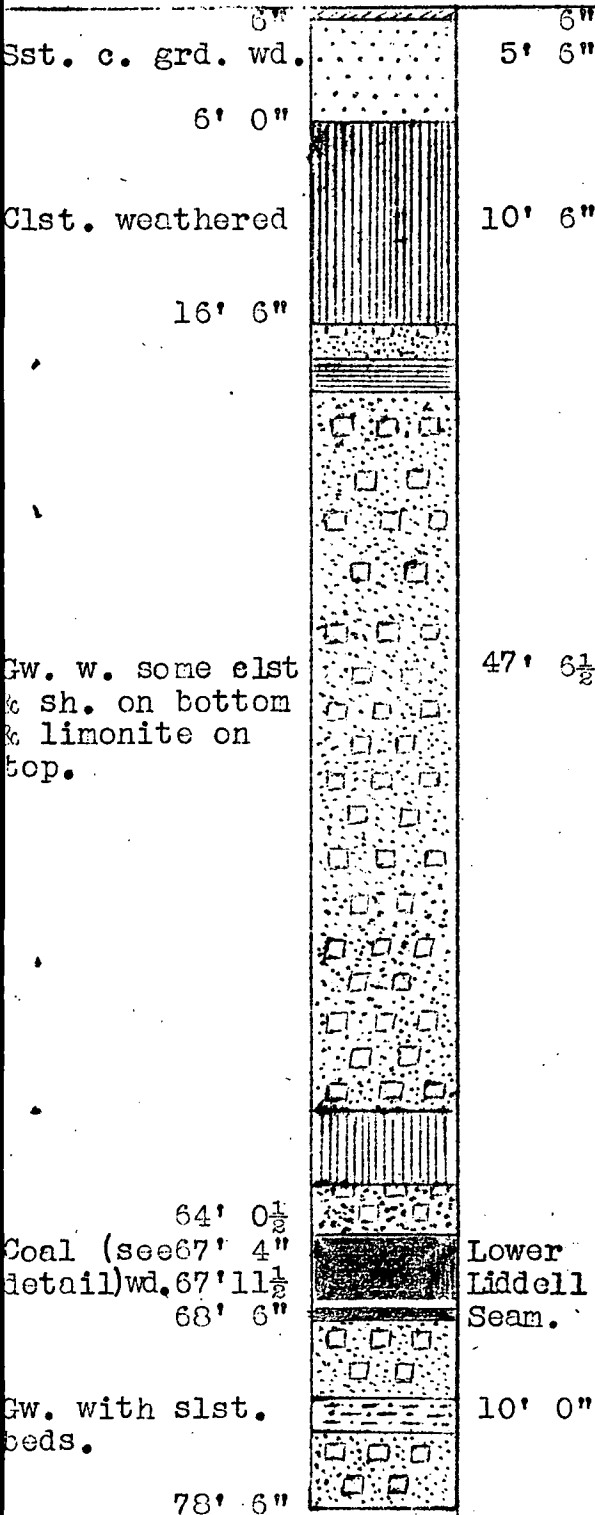
Begun: 27.9.52

Finished: 1.10.52

Depth: 78' 6"

STRATIGRAPHIC LOG (1"-10')

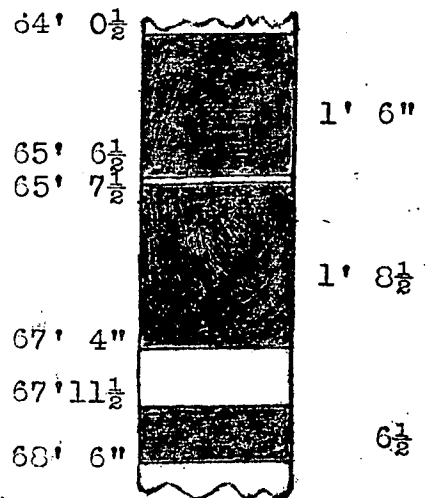
COAL DETAIL (1"-2')



Coal wd. w. limonitic stain crumbly..

Coal wd. crumbly: d. & brt. banded.

Coal wd. crumbly..

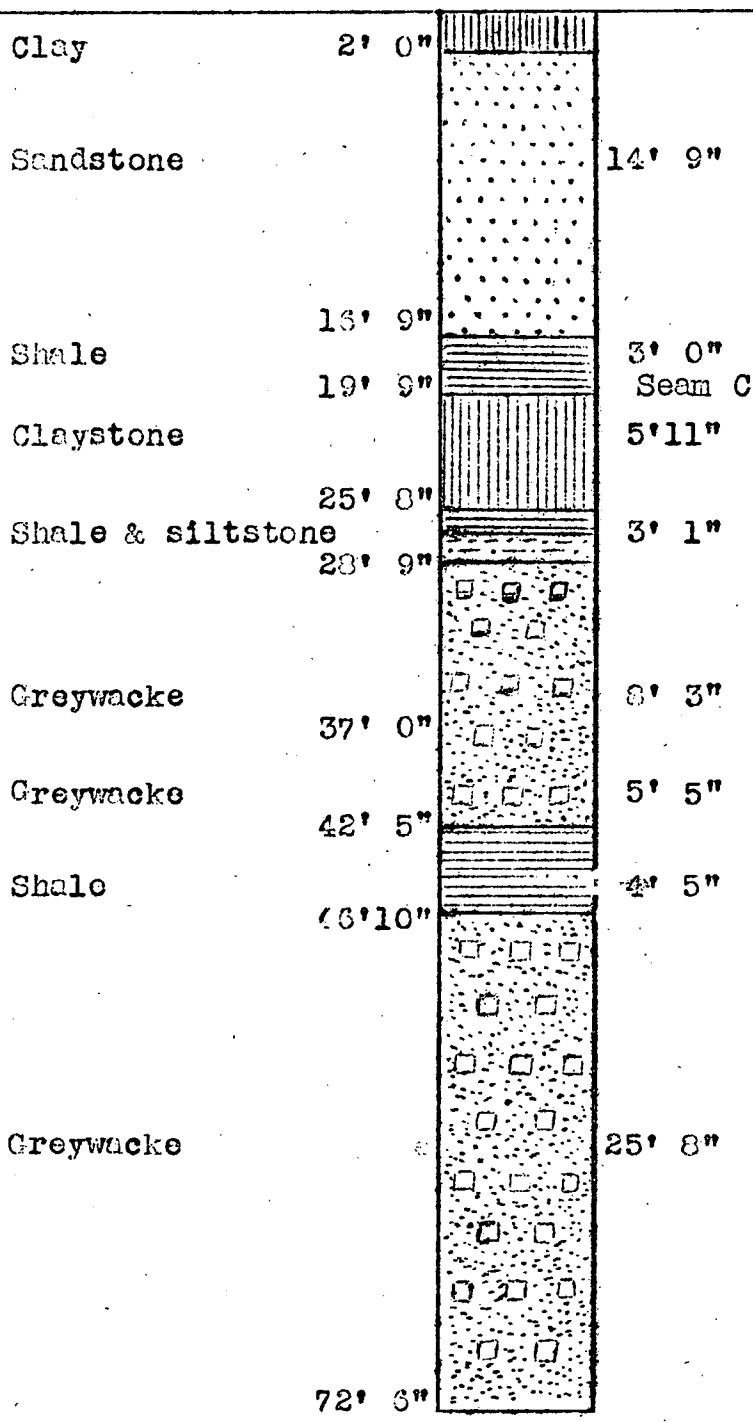


COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek	Hole No: BMR 31T	Elevation: 458.7' ASL
Reference: BMR Map N14/110, June 1953.	Datum: Standard	
Begun: 1.10.52	Finished: 8.10.52	Depth: 117' 7"

STRATIGRAPHIC LOG (1"-10')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 31T Elevation: 453.7' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 1.10.52 Finished: 8.10.52 Depth: 117' 7"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')

STRATIGRAPHIC LOG (1"-10')		COAL DETAIL (1"-2')					
Depth	Description	HM	V	FC	Ash	BThU	
72' 8"	Cont.						
74' 6"	Sh.						88' 4 1/2"
78' 8"	Sh. slst.	3.0	37.6	51.2	8.2	13,230	1' 0"
		Coal brt. carb. slst. bd.					89' 4 1/2"
83' 8"	Greywacke						
86' 10"	Shale	3.3	37.8	51.6	7.3	13,220	1' 5 1/2"
88' 4 1/2"	Coal	Coal mostly brt. shat.					90' 10"
	Shale						
	Artie's Seam.						92' 10"
	Coal bds.	2.6	37.6	45.7	14.1	12,300	1' 1"
		Coal generally dull.					93' 11"
							93' 11 1/2"
106' 8 1/2"		2.9	33.0	54.6	9.5	12,890	2' 0 1/2"
	Sh. & gw.	Coal mostly d. w. v. t. bright bands.					96' 0"
112' 5"	Greywacke						
117' 7"		2.8	38.4	51.8	7.0	13,400	1' 10"
		Coal as above.					97' 10"
							98' 2 1/2"
		3.4	31.3	48.8	16.5	11,700	1' 3 3/4"
		Coal mostly dull.					99' 6 1/4"
							99' 6 3/8"
		3.3	33.7	50.1	12.9	12,230	1' 0 1/2"
		Coal generally dull					100' 7"
							101' 0 1/2"
		3.2	33.6	53.0	10.2	12,650	10"
		Coal generally dull.					101' 10 1/2"
							102' 9 1/2"
							103' 1"
							103' 1 1/2"
		3.1	31.7	43.8	21.4	11,000	1' 10 1/2"
		Coal dull.					105' 0"
							105' 1"
		3.4	34.1	52.5	10.0	12,700	1' 3"
		Coal mostly bright.					106' 4"
		Coal mostly dull shaly at bottom.					106' 8 1/2"

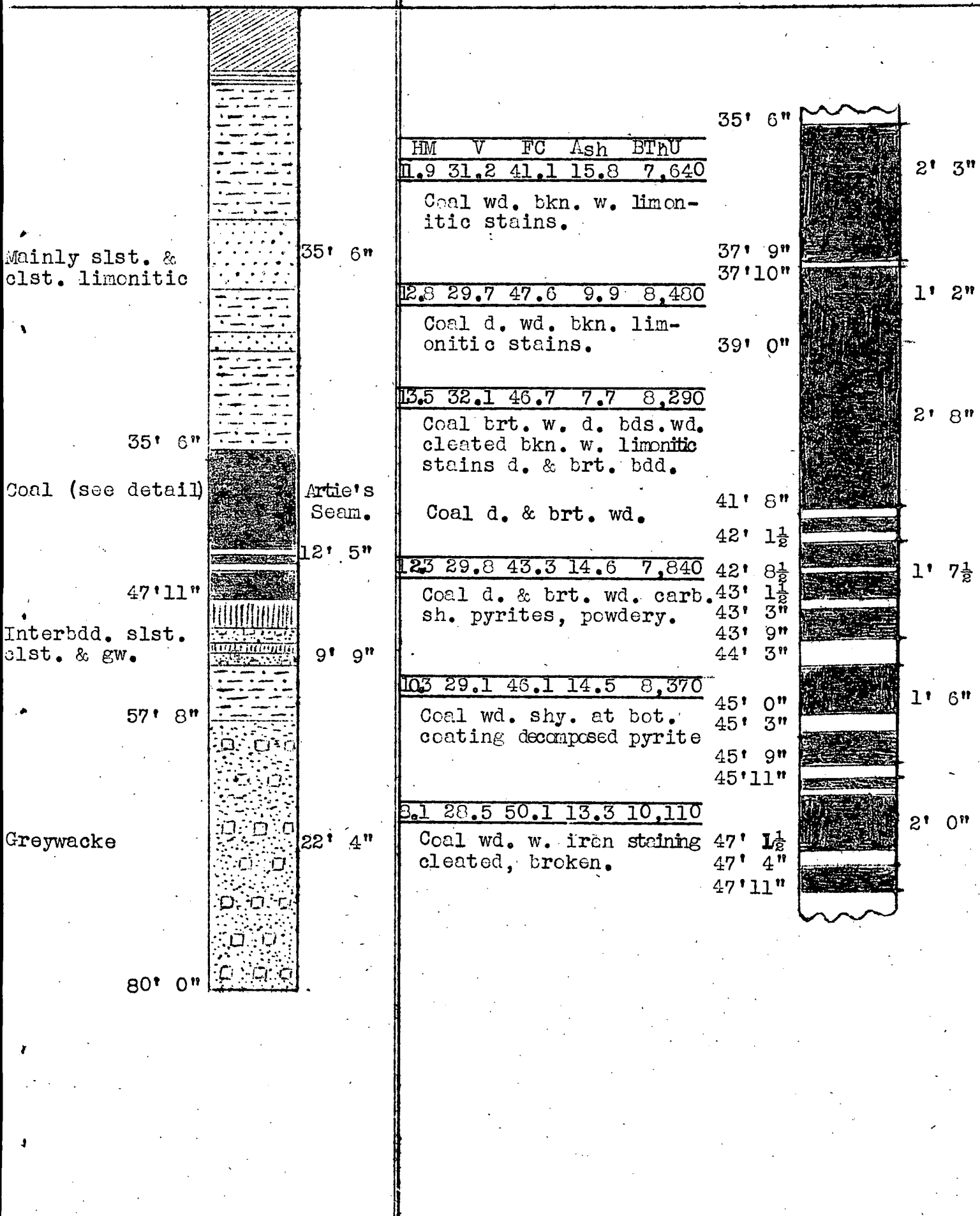
COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 32T Elevation: 528.2' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 2.10.52 Finished: 11.10.52 Depth: 147' 8"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')

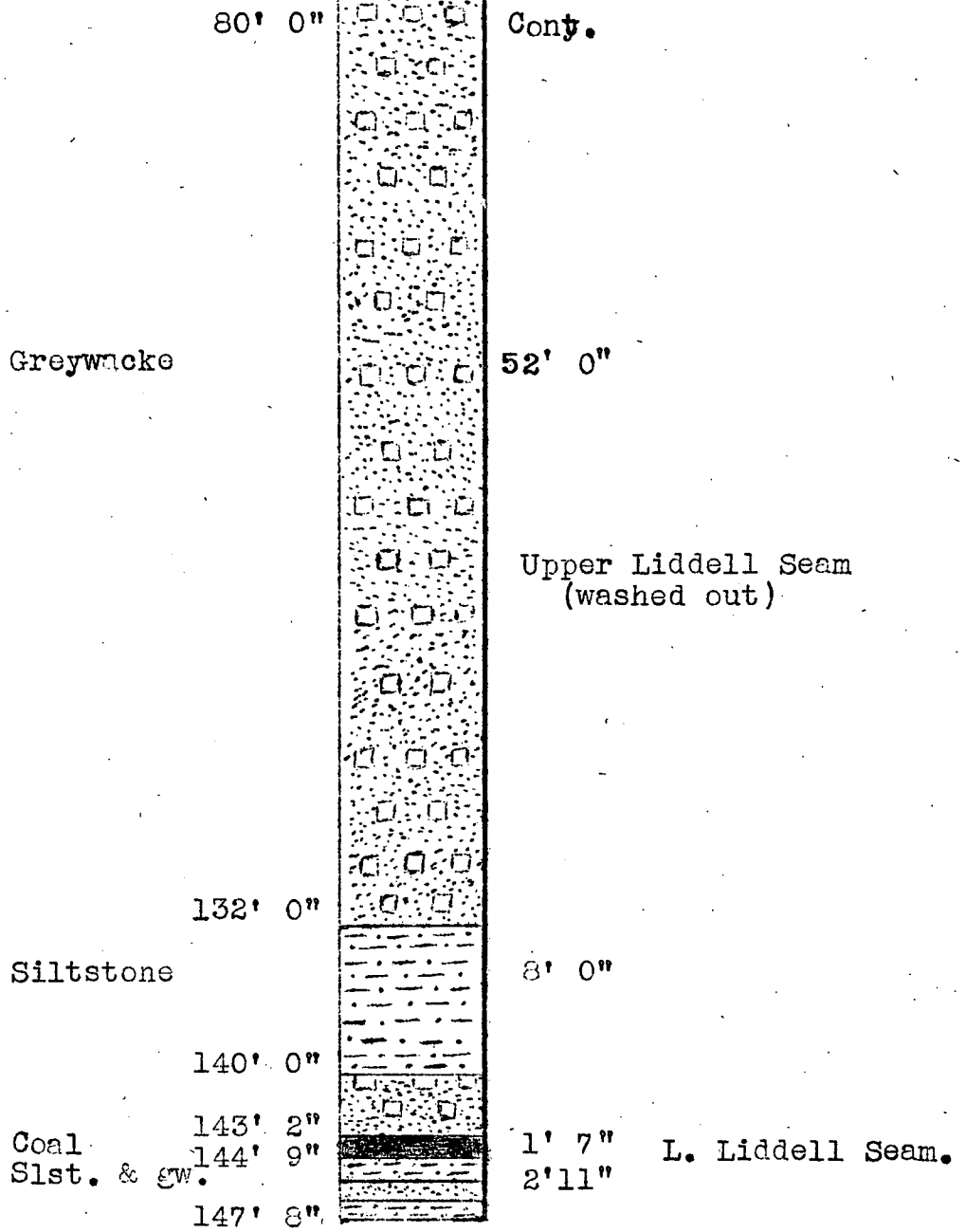


COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 32T Elevation: 528.2' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 2.10.52 Finished: 11.10.52 Depth: 147' 8"

STRATIGRAPHIC LOG (1"-10')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 33T

Elevation: 520.0' ASL

Reference: BMR Map N14/110, June 1953.


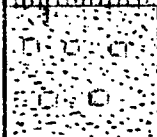
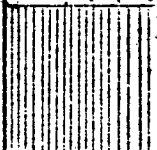
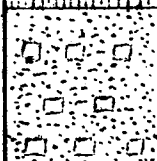

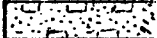
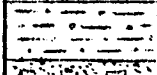
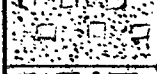
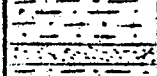
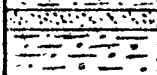
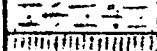
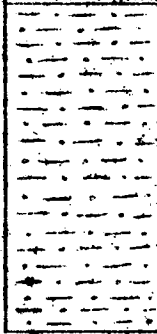
Datum: Standard

Began: 9.10.52

Finished: 16.10.52

Depth: 123' 0"

STRATIGRAPHIC LOG (1"-10')

Claystone	4' 6"		4' 6"
Greywacke	11' 6"		7' 0"
Claystone	19' 6"		8' 0"
Greywacke	27' 10"		8' 4"
Claystone	31' 5 1/2"		3' 7 1/2"
Greywacke	33' 4 1/2"		1' 11"
Siltstone	36' 1 1/2"		2' 9"
Greywacke	40' 5 1/2"		4' 4"
Gw. & siltstone	46' 1"		5' 7 1/2"
Siltstone	51' 4"		5' 3"
Claystone	51' 4"		
Siltstone	68' 6 1/2"		27' 2 1/2"

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: EMR 33T Elevation: 520.0' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 9.10.52 Finished: 16.10.52 Depth: 123' 0"

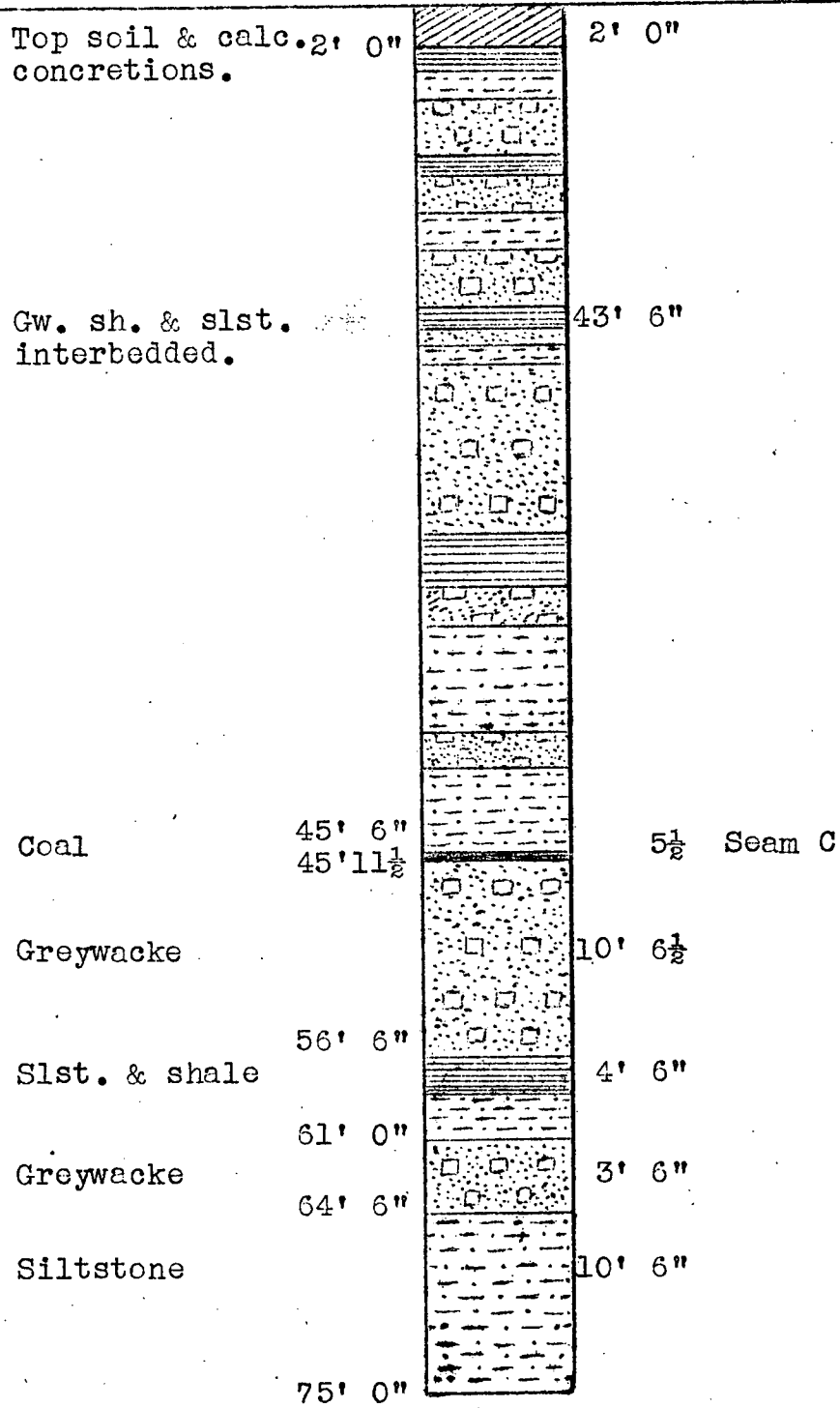
STRATIGRAPHIC LOG (1"-10')		COAL DETAIL (1"-2')											
68' 6 1/2"		Cont.	95' 1 3/4"										
Greywacke		18' 1 1/2"	<table border="1"> <tr> <td>HM</td> <td>V</td> <td>FC</td> <td>Ash</td> <td>BThU</td> </tr> <tr> <td>3.4</td> <td>37.9</td> <td>49.6</td> <td>9.1</td> <td>12,930</td> </tr> </table>	HM	V	FC	Ash	BThU	3.4	37.9	49.6	9.1	12,930
HM	V	FC	Ash	BThU									
3.4	37.9	49.6	9.1	12,930									
			Coal, d. & brt. bdd. cleated bkn. in part. 97' 4 1/2"										
86' 8"		8' 5 3/4"											
Siltstone & Claystone			100' 2"										
Coal		2' 2 3/4"	<table border="1"> <tr> <td>3.2</td> <td>32.8</td> <td>53.3</td> <td>10.7</td> <td>12,770</td> </tr> </table>	3.2	32.8	53.3	10.7	12,770					
3.2	32.8	53.3	10.7	12,770									
Siltstone		2' 9 1/3"	Coal mostly dull, lam. dull & bright banded.										
100' 2"			102' 6 1/2"										
Coal clst. sh. & slst. (see detail)		13' 2 1/3"	102' 7"										
		Artie's Seam.	<table border="1"> <tr> <td>3.5</td> <td>37.5</td> <td>50.6</td> <td>8.4</td> <td>13,020</td> </tr> </table>	3.5	37.5	50.6	8.4	13,020					
3.5	37.5	50.6	8.4	13,020									
			Coal dull & bright bdd.										
113' 4 1/2"			104' 4 1/2"										
Siltstone		9' 7 1/3"	104' 6 3/8"										
			<table border="1"> <tr> <td>3.4</td> <td>30.5</td> <td>46.5</td> <td>19.6</td> <td>11,320</td> </tr> </table>	3.4	30.5	46.5	19.6	11,320					
3.4	30.5	46.5	19.6	11,320									
			Coal d. & brt. bdd. cleated d. sh. fusinitic sal. clst. lens. 106' 0 3/4"										
123' 0"			106' 1 1/2"										
			<table border="1"> <tr> <td>3.6</td> <td>33.1</td> <td>49.7</td> <td>13.6</td> <td>12,170</td> </tr> </table>	3.6	33.1	49.7	13.6	12,170					
3.6	33.1	49.7	13.6	12,170									
			Coal d. & brt. bdd. 107' 3"										
			107' 7 1/2"										
			<table border="1"> <tr> <td>3.3</td> <td>31.8</td> <td>49.7</td> <td>15.2</td> <td>11,900</td> </tr> </table>	3.3	31.8	49.7	15.2	11,900					
3.3	31.8	49.7	15.2	11,900									
			Coal d. & brt. bdd. w.t. v. fusinitic near bot. 108' 9"										
			Coal dull & bright banded, cleated. 109' 6 1/2"										
			110' 2"										
			<table border="1"> <tr> <td>3.9</td> <td>33.6</td> <td>48.8</td> <td>13.7</td> <td>12,140</td> </tr> </table>	3.9	33.6	48.8	13.7	12,140					
3.9	33.6	48.8	13.7	12,140									
			Coal d. & brt. bdd. sd. sh. bd. carb. pyrite. 112' 4"										
			Coal brt. num. t. bds. carb. shale. 112' 9 1/2"										
			Coal, mostly bright. powdery. 113' 0 1/2"										
			113' 4 1/2"										

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 34T Elevation: 521.1' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 8.10.52 Finished: 16.10.52 Depth: 127' 0"

STRATIGRAPHIC LOG (1"-10')



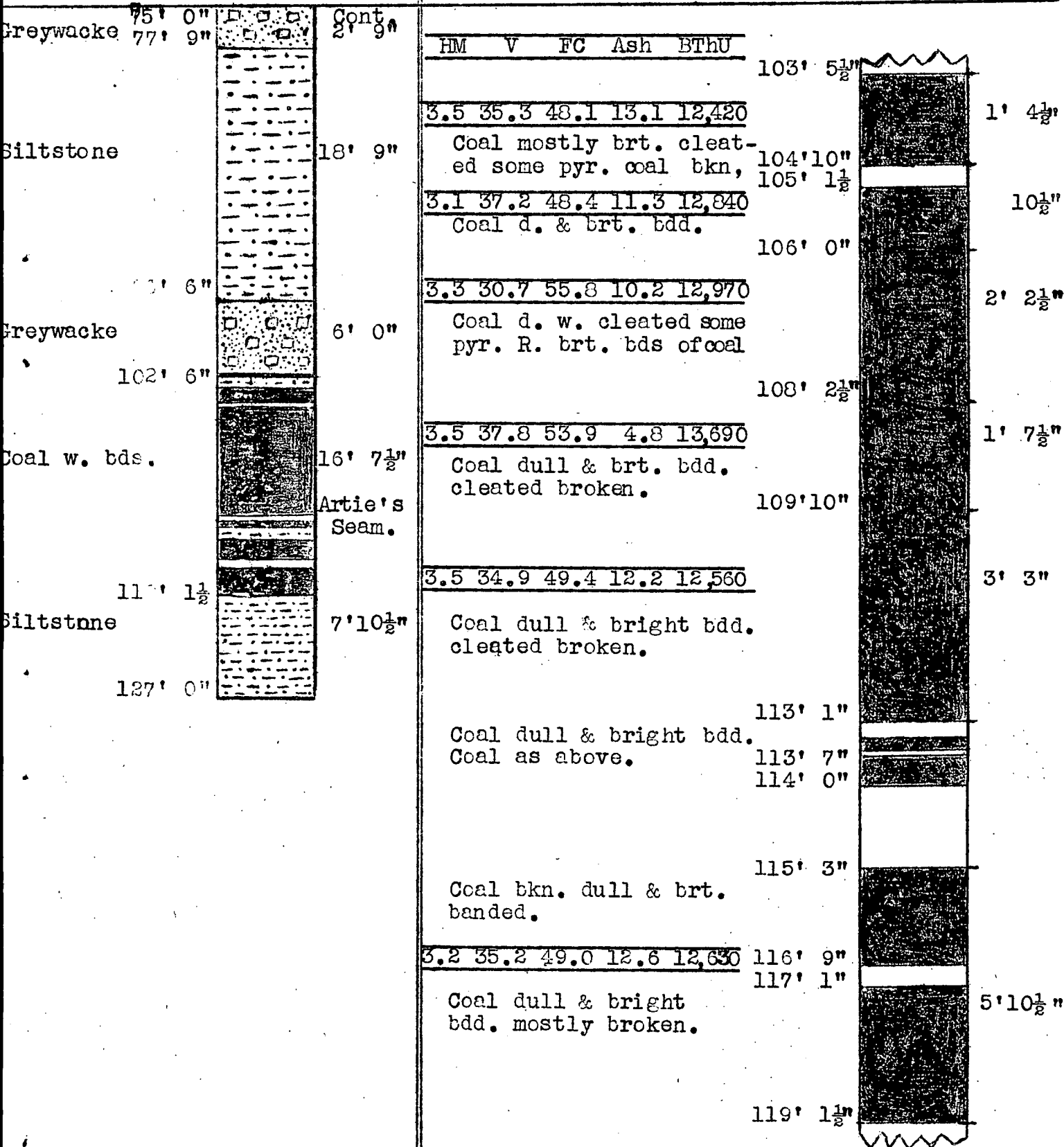
COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 34T Elevation: 521.1' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 8.10.52 Finished: 16.10.52 Depth: 127' 0"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics.

Area: Parnell's Creek

Hole No: BMR 35T

Elevation: 487.3' ASL

Reference: BMR Map N14/110, June 1953.

Datum: Standard

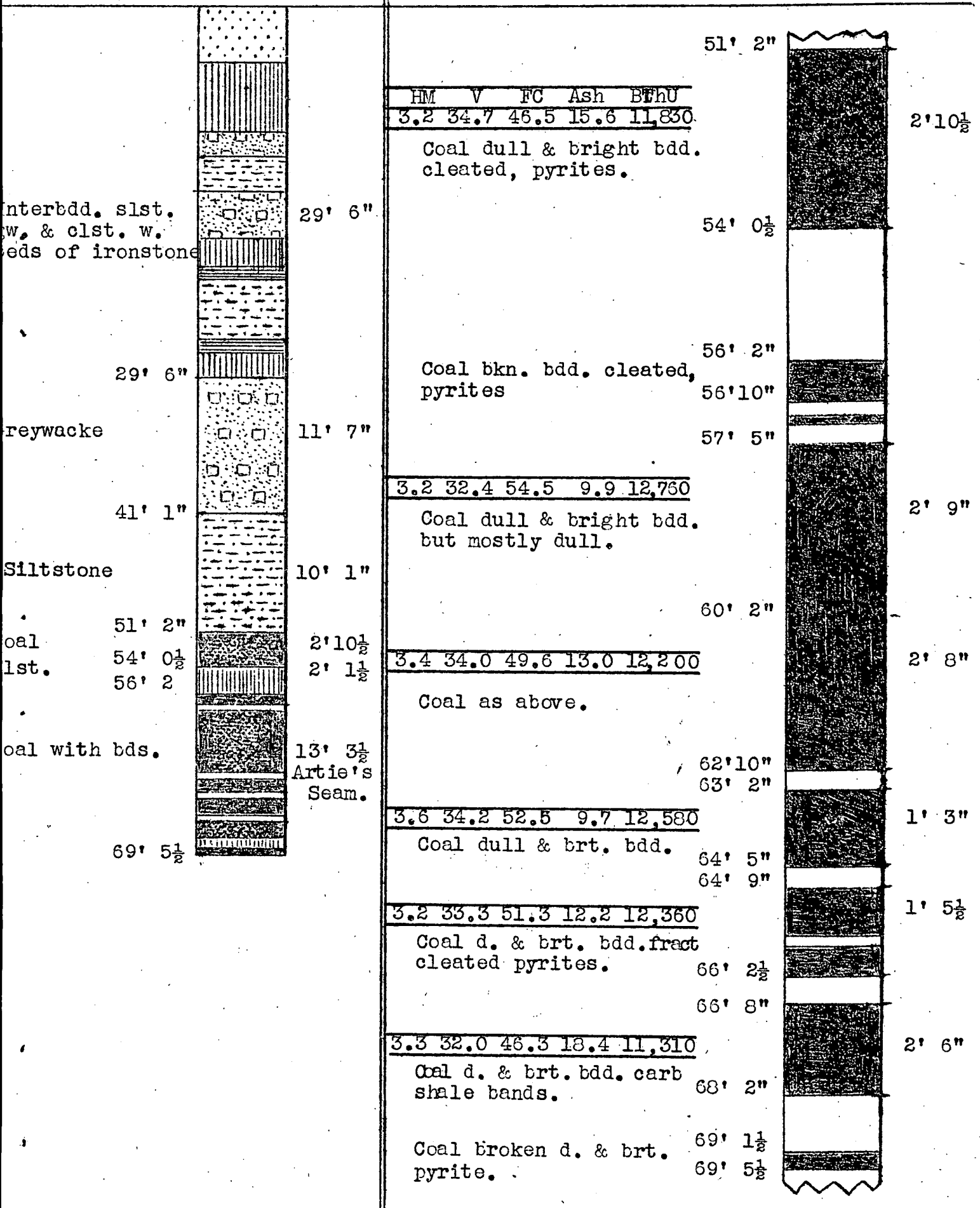
Begun: 13.10.52

Finished: 20.10.52

Depth: 141' 4"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



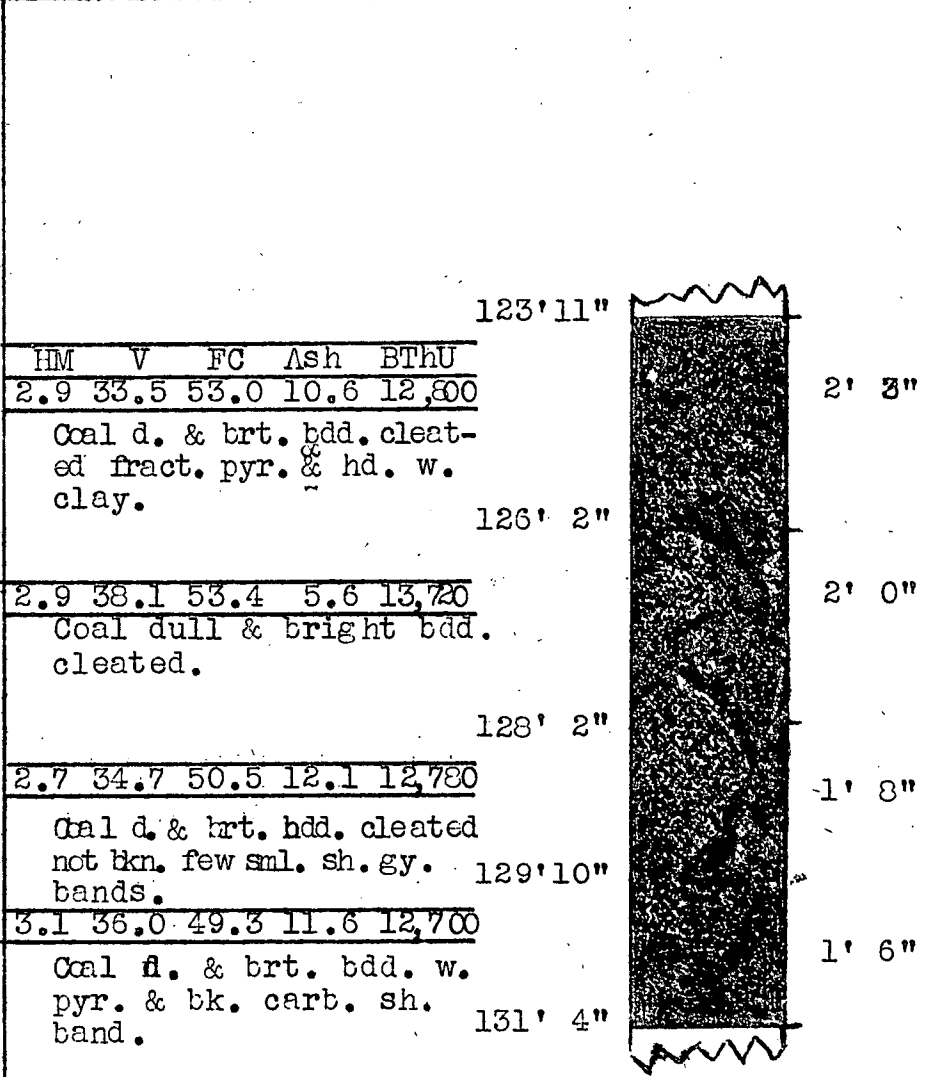
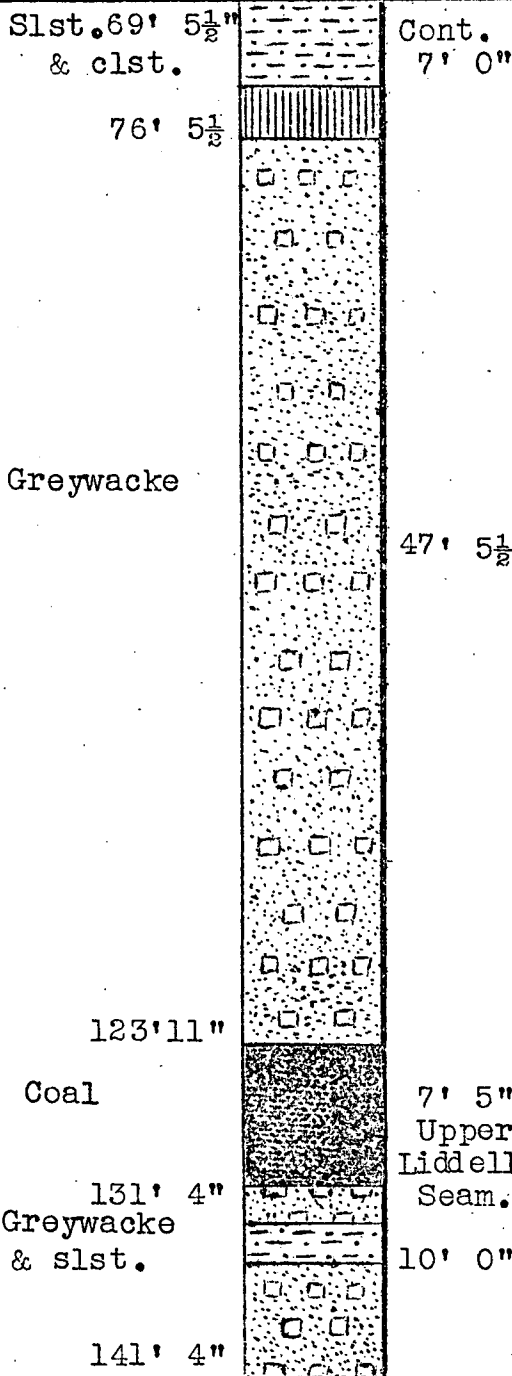
COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 35T Elevation: 487.3' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 13.10.52 Finished: 20.10.52 Depth: 141' 4"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 36T Elevation: 645.2' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 17.10.52 Finished: 25.10.52 Depth: 180' 0"

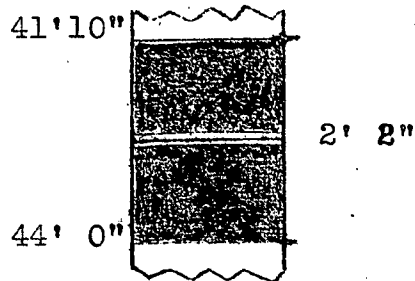
STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"=2')

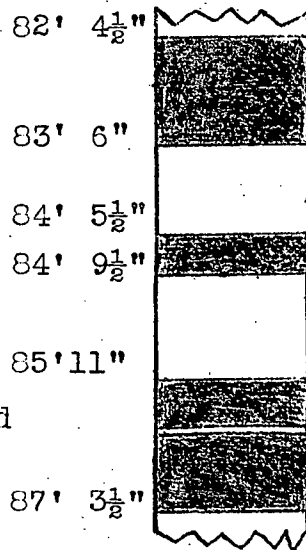
Soil	3' 0"	3' 0"
Slst & Slst.	10' 8"	7' 8"
Greywacke	24' 0"	13' 4"
Siltstone & shale	31' 0"	7' 0"
Greywacke & shale	41' 10"	10' 10"
Coal (see detail)	44' 0"	2' 2"
		Seam X
Siltstone gw. & sh. lmst. (?) band.	38' 4 1/2"	
Coal w. bds.	82' 4 1/2"	4' 11"
		Seam W
Slst. gw. & sh. interbdd	87' 3 1/2"	4' 8 1/2"
	92' 0"	

HM	V	FC	Ash	BThU
3.6	31.5	49.9	15.0	11,580

Coal dull & bright bdd. broken.



Coal dull & bright banded.



Coal mostly bright.

Coal dull & bright bdd broken in part.

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole NO: BMR 36T Elevation: 645.2' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 17.10.52 Finished: 25.10.52 Depth: 180' 0"

STRATIGRAPHIC LOG. (1"-10')

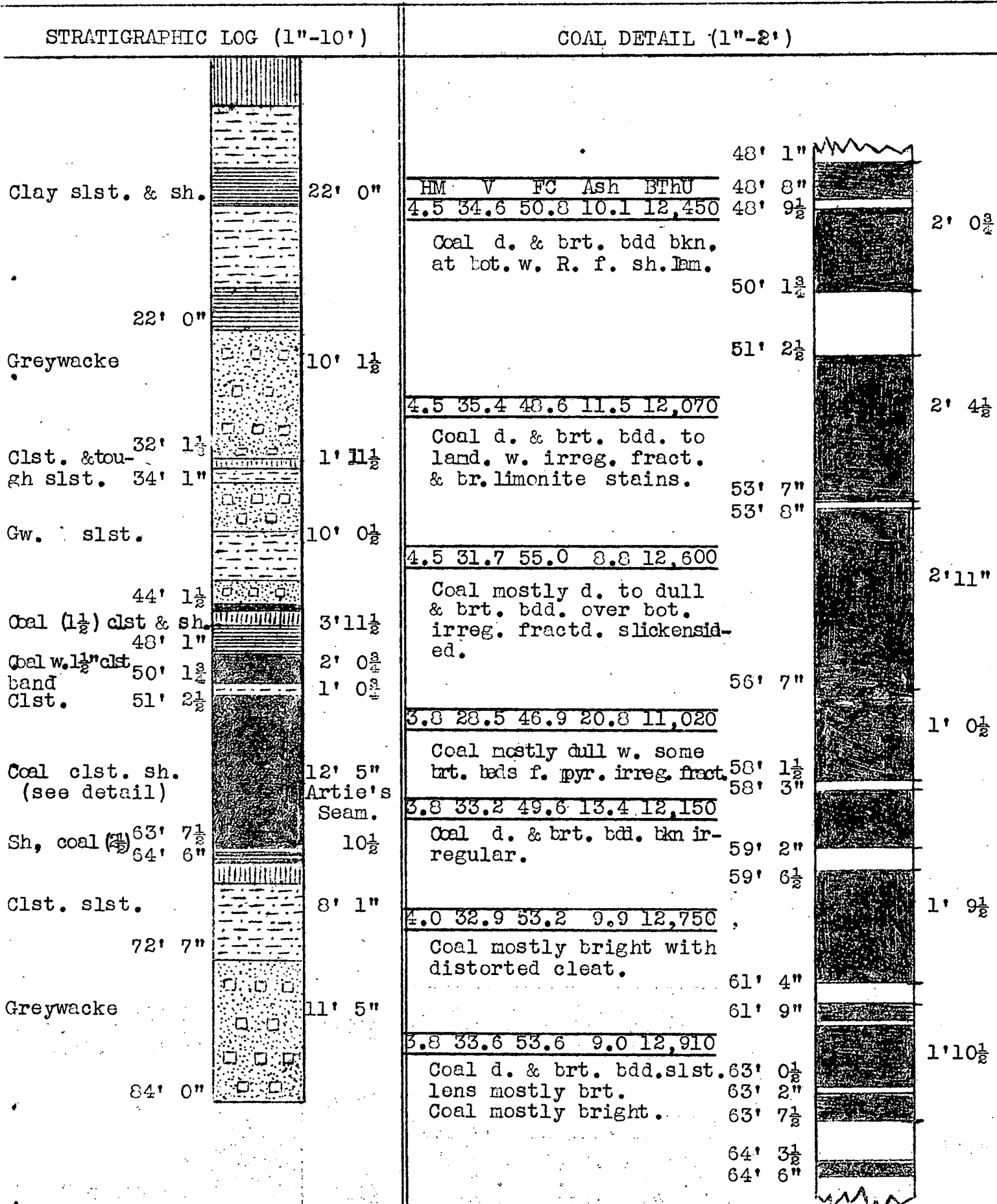
COAL DETAIL (1"-2')

92' 0"	Cont.		
Siltstone gw. & sh. interbdd.	18' 5"		
		143' 6"	
		HM V FC Ash BThU	
		4.1 22.2 52.6 21.1 10,550	2' 2"
		Coal some splint some broken,	
110' 5"		145' 8"	
		4.1 23.2 55.8 16.9 11,170	2' 2"
		Bl. Shale, mostly broken pyrites.	
Gw. v. c.w. pebble bds.	31' 4 $\frac{1}{2}$ "	147' 10"	
		3.8 27.3 57.8 11.1 12,030	2' 2"
		Coal as above.	
		150' 0"	
		3.7 29.9 55.8 10.6 12,340	2' 1"
Sh. 141' 9 $\frac{1}{2}$ " 143' 6"	1' 8 $\frac{1}{2}$ "	152' 1"	
		Coal mostly d. some d. & brt. bdd. bkn. at top	
Coal	15' 9"	154' 3"	
	Parnell's Ck. Seam	154' 3"	
		154' 3"	
		3.2 28.5 51.8 16.5 11,610	2' 6"
		Coal dull & bright bdd. cleated.	
Greywacke coarse grd.	20' 9"	156' 9"	
		3.3 28.6 52.0 16.1 11,650	2' 6"
		Coal as above.	
180' 0"		159' 3"	

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 37T Elevation: 480.6' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 21.10.52 Finished: 24.10.52 Depth: 84' 0"

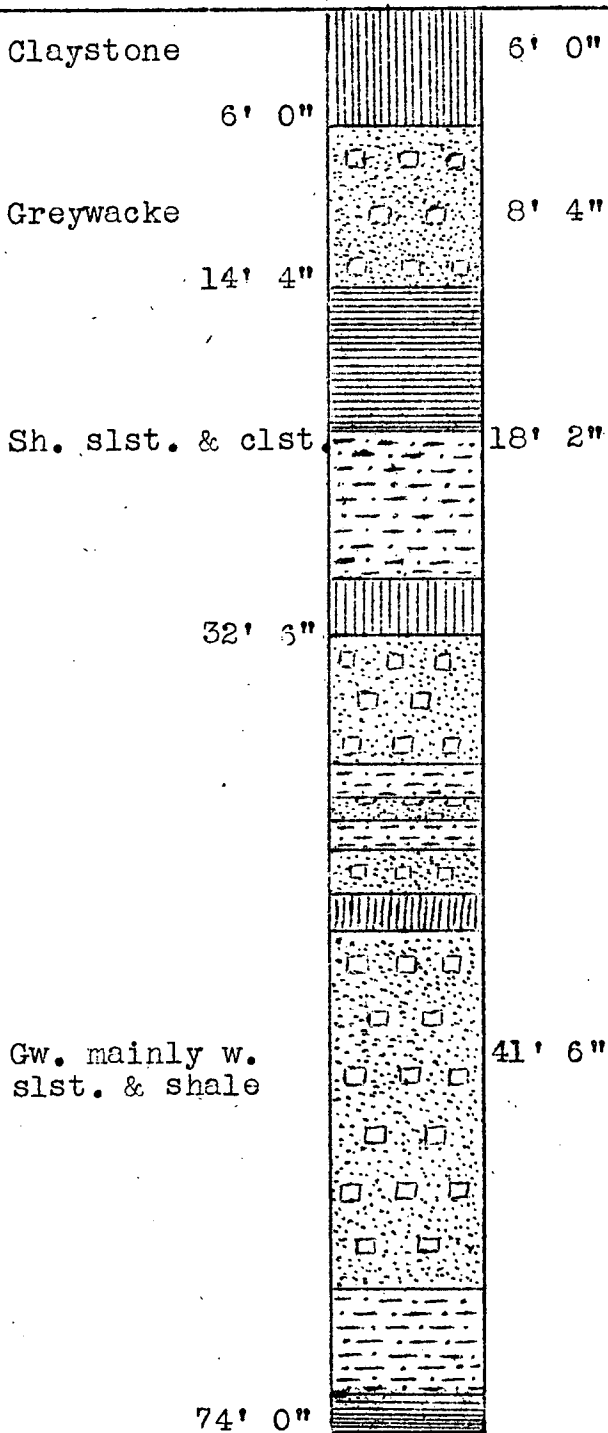


COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 38T Elevation: 556.8' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 21.10.52 Finished: 27.10.52 Depth: 118' 4"

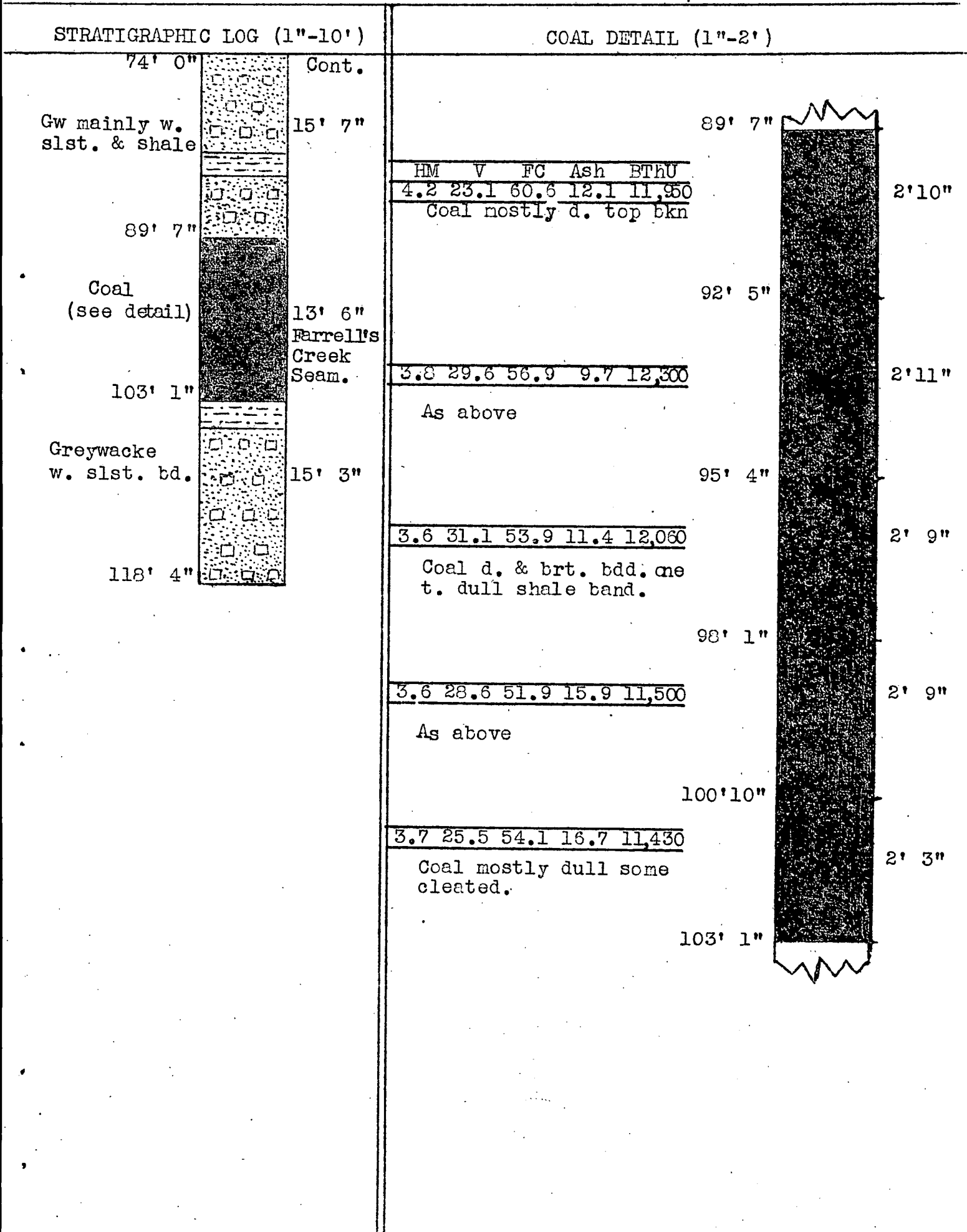
STRATIGRAPHIC LOG (1"-10')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 38T Elevation: 556.8' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 21.10.52 Finished: 27.10.52 Depth: 118' 4"



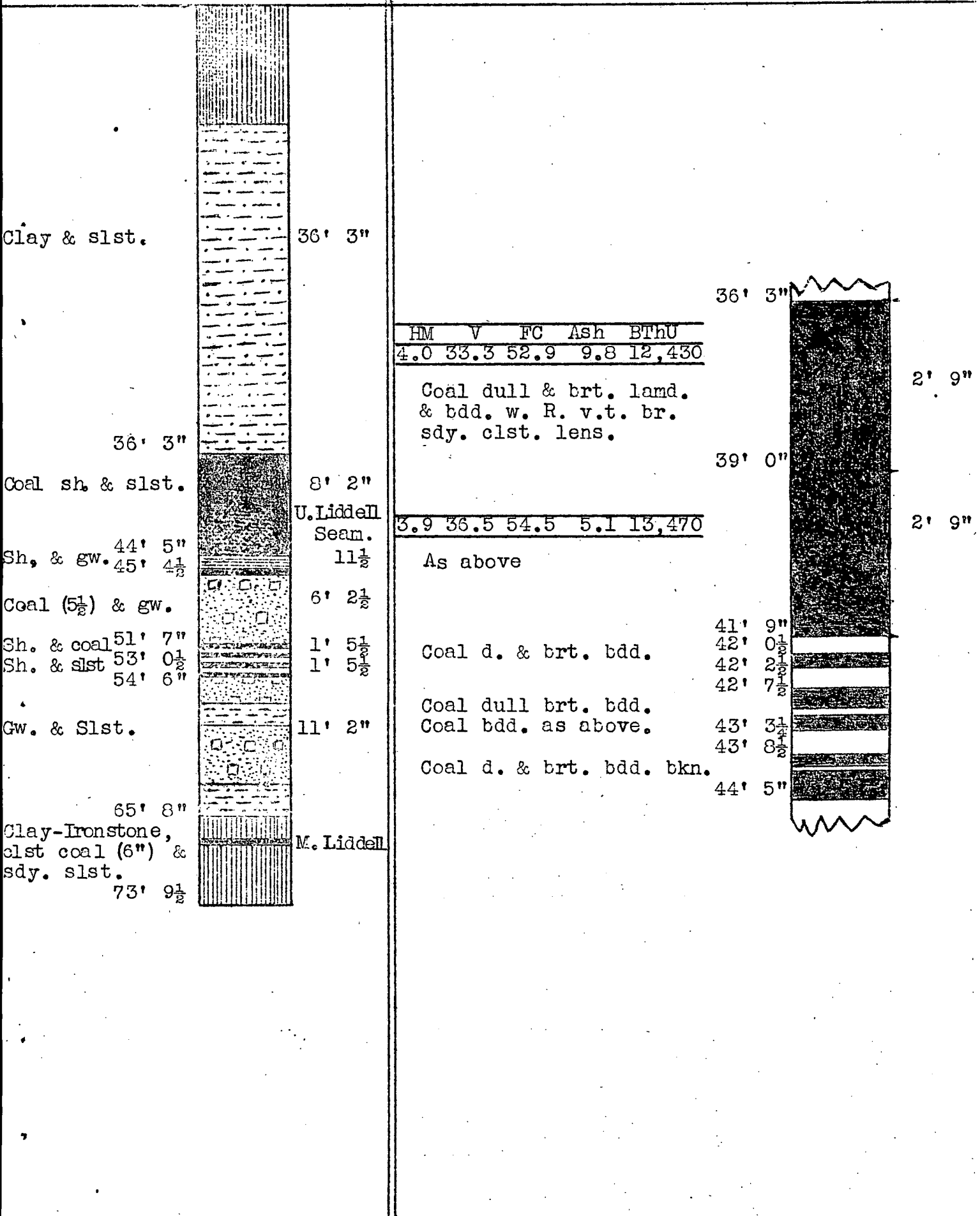
COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 39T Elevation: 497.2' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 28.10.52 Finished: 1.11.52 Depth: 137' 1"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



Clay & slst.

36' 3"

36' 3"

Coal sh. & slst.

8' 2"

U. Liddell
Seam.

3.9 36.5 54.5 5.1 13,470

Sh. & gw. 44' 5"
45' 4 1/2"

11 1/2"

As above

Coal (5 1/8) & gw.

6' 2 1/2"

Sh. & coal 51' 7"
Sh. & slst 53' 0 1/2"
54' 6"

1' 5 1/2"
1' 5 1/2"

Coal d. & brt. bdd.

41' 9"
42' 0 1/2"
42' 2 1/2"
42' 7 1/2"

Gw. & Slst.

11' 2"

Coal dull brt. bdd.
Coal bdd. as above.

43' 3 1/4"
43' 8 1/2"

65' 8"

Clay-Ironstone,
clst coal (6") &
sdy. slst.

M. Liddell

73' 9 1/2"

Coal d. & brt. bdd. bkn.

44' 5"

36' 3"

2' 9"

39' 0"

2' 9"

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Farnell's Creek Hole No: BMR 39T Elevation: 497.2' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 28.10.52 Finished: 1.11.52 Depth: 137' 1"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')

73' 9 1/2" Cont.

Greywacke 37' 1 1/2"

110' 11" Claystone 7' 9"

118' 8" Coal sh. & clst. (see detail) 6' 6 1/2"

125' 2 1/2" Lower Liddell Seam.

Shale & slst. 11' 10 1/2"

137' 1"

Coal bright.

118' 8"

119' 9"

Coal gen. d. w. brt. bands.

120' 11 1/8"

121' 2 1/2"

Coal dull.

122' 0"

122' 4"

Coal bright

122' 5 1/2"

122' 10"

HM	V	FC	Ash	BThU
4.0	33.4	51.1	11.5	12.500

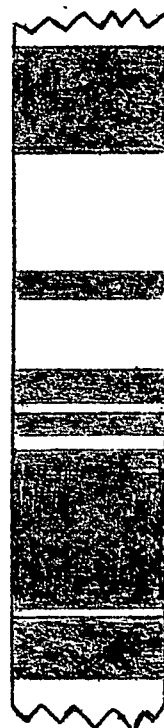
Coal gen. brt. w. some calcite bands.

Coal dull w. t. sh. bands.

124' 10 1/2"

125' 2 1/2"

2' 0 1/2"



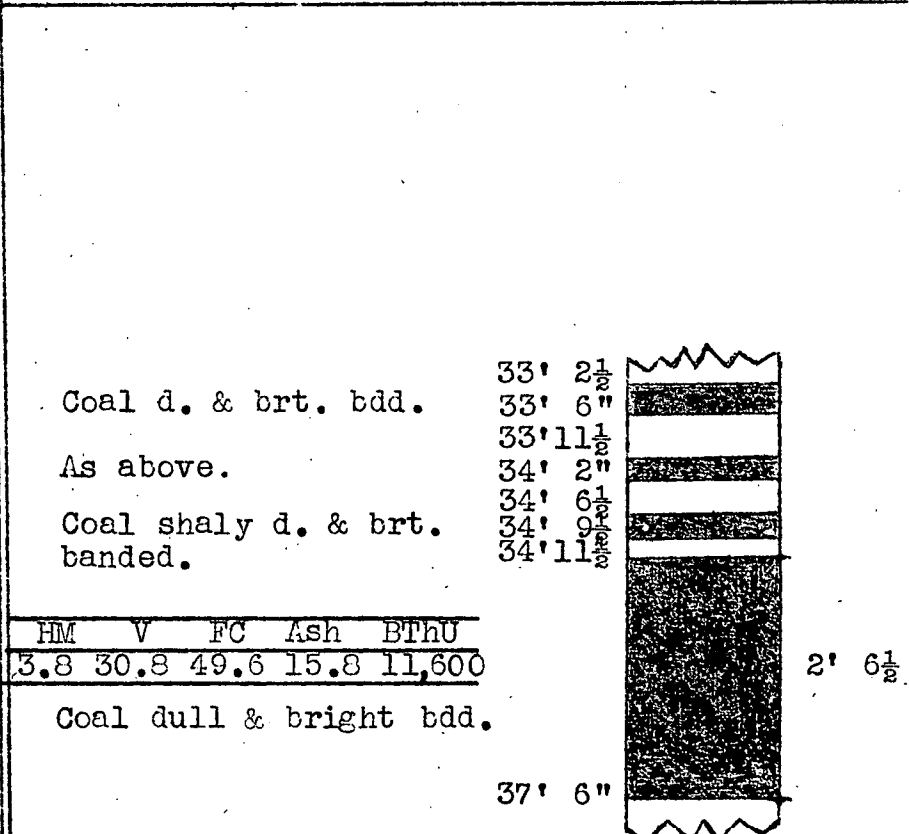
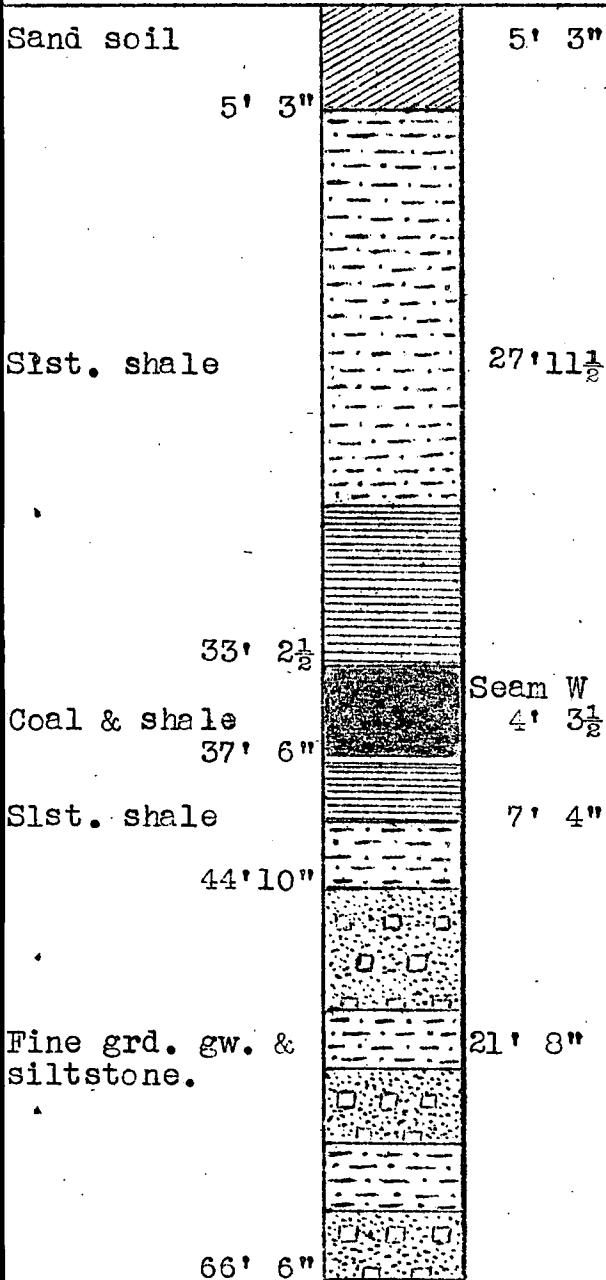
COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 40T Elevation: 576.3' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 24.10.52 Finished: 29.10.52 Depth: 114' 0"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



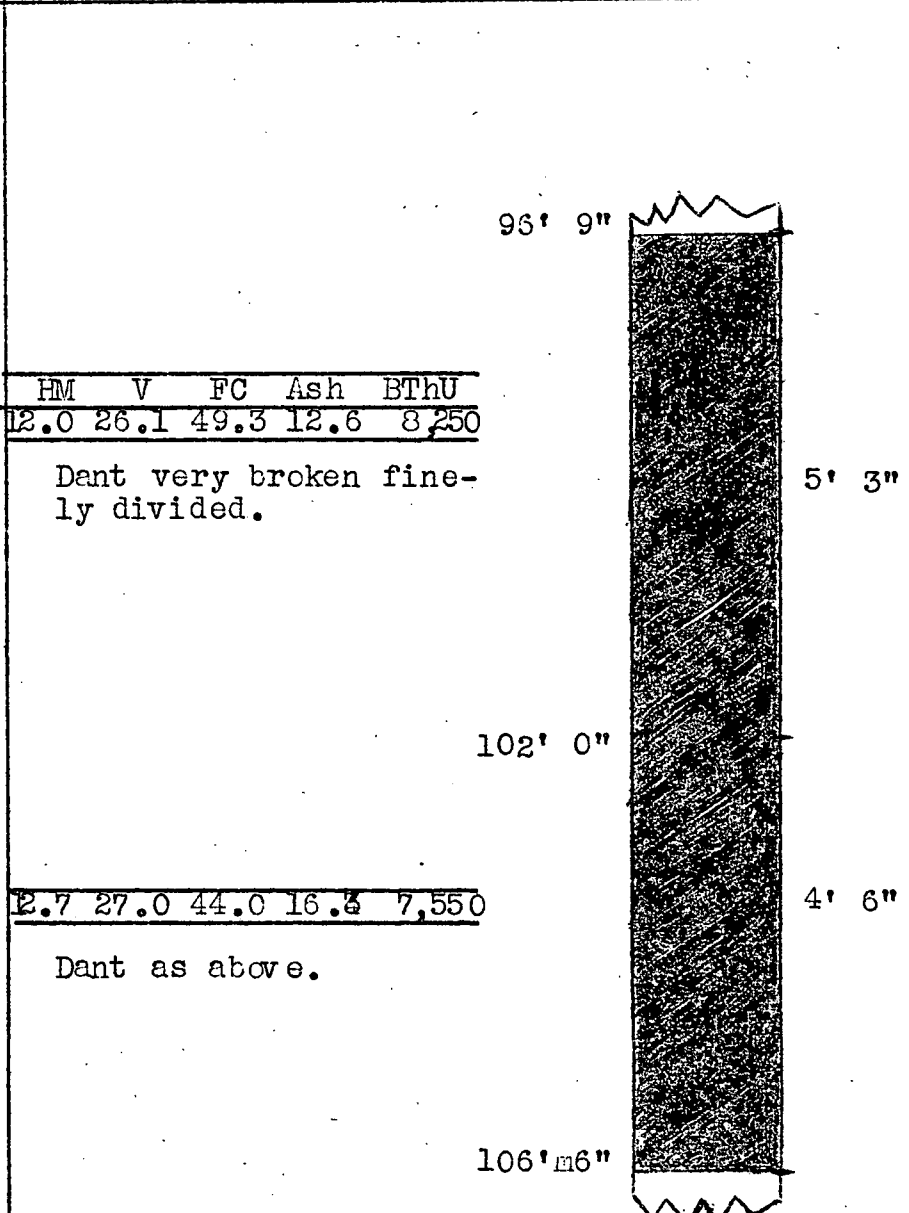
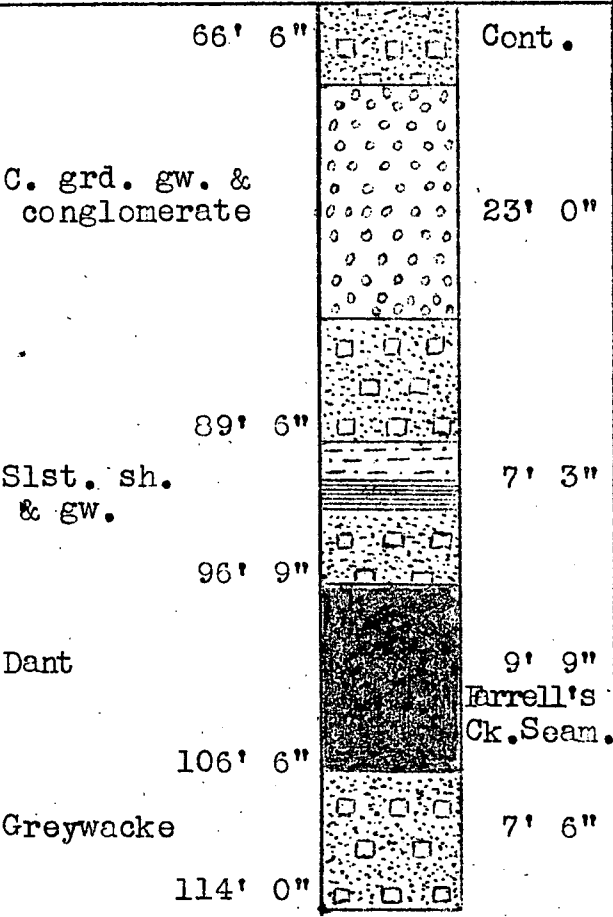
COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 40T Elevation: 576.3' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 24.10.52 Finished: 29.10.52 Depth: 114' 0"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 41T Elevation: 439.2' ASL
Reference: BMR Map N14/110, June 1953. Datum: Standard
Begun: 28.10.52 Finished: 29.10.52 Depth: 61' 2"

STRATIGRAPHIC LOG (1"-10')

Sandy soil

26' 0"

26' 0"

Sandy clst.

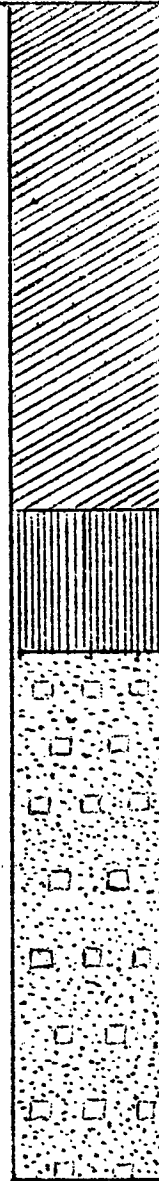
7' 6"

33' 6"

Greywacke

27' 8"

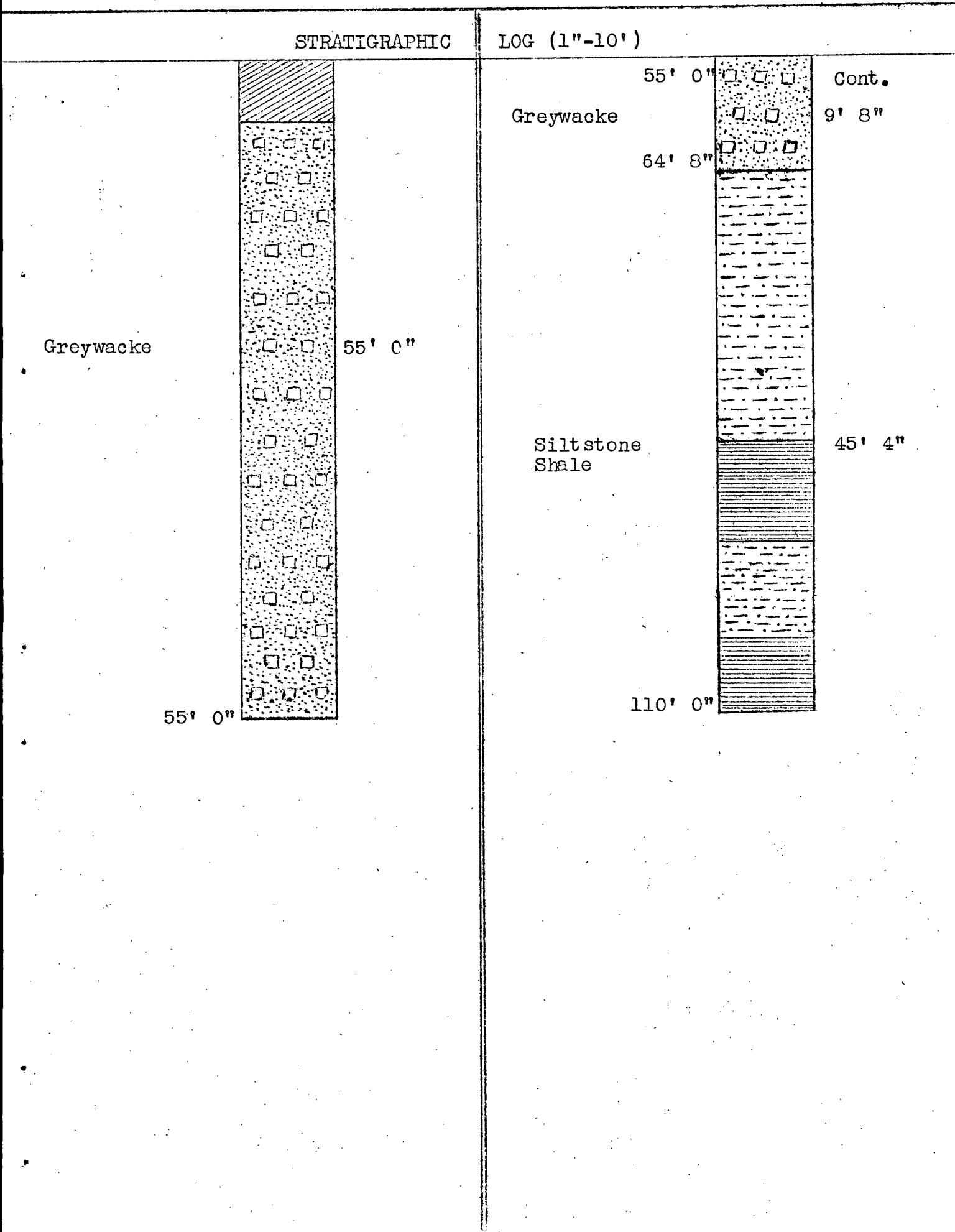
61' 2"



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 42T Elevation: 489.1' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 30.10.52 Finished: 4.11.52 Depth: 110' 0"



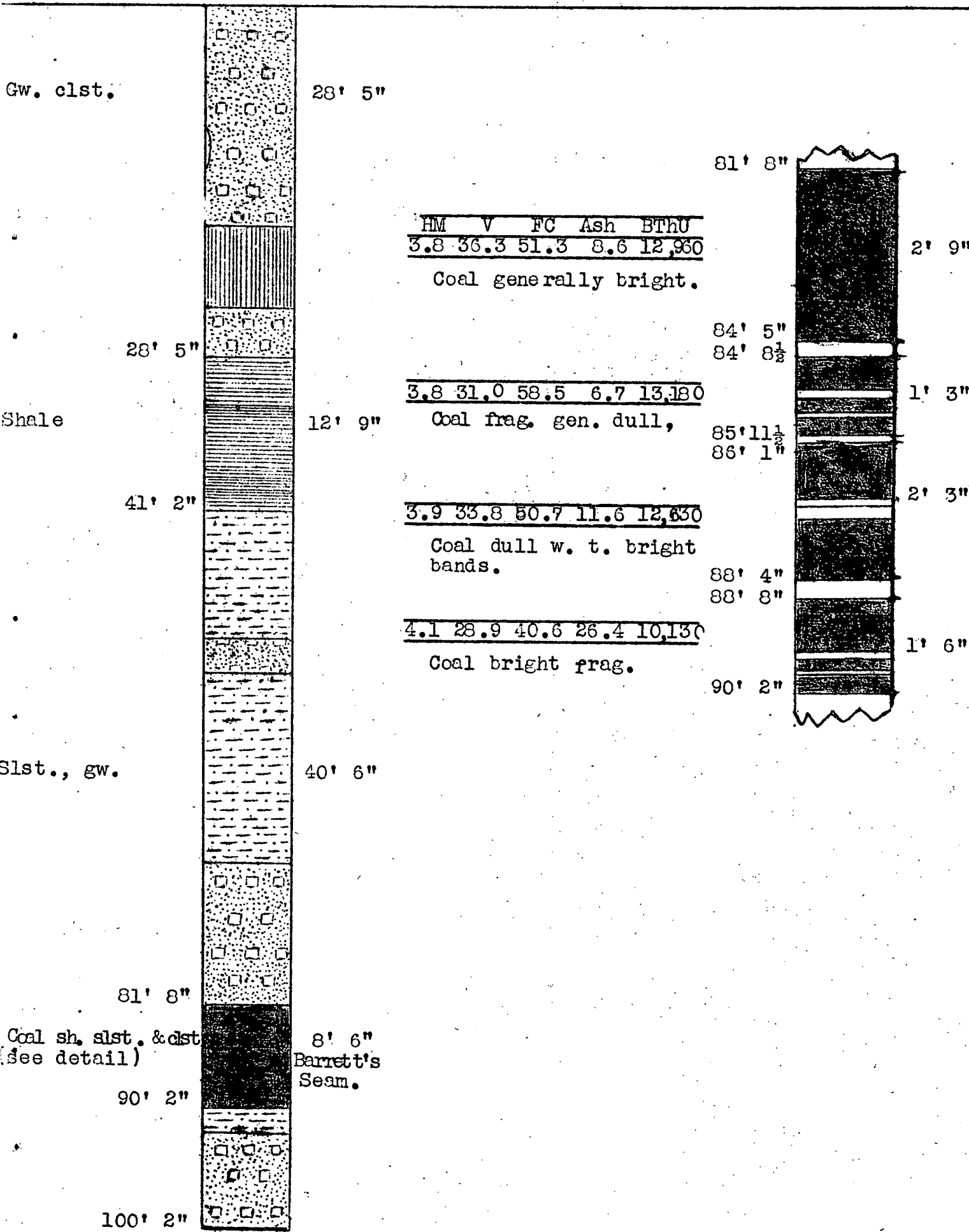
COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 43T Elevation: 507.3' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 30.10.52 Finished: 4.11.52 Depth: 100' 2"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 44T Elevation: 432.4' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 31.10.52 Finished: 7.11.52 Depth: 125' 0"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')

Clay 12' 0"

12' 0"
 Clst 14' 0" 2' 0"
 Coal 15' 0" M. Liddell

Shale 41' 6"

HM V FC Ash BThU

56' 6"

3.9 26.4 35.6 34.1 - -

Coal d. brt. fragmentary

57' 7½"

58' 9½"

4.2 26.3 38.2 31.3 12,260

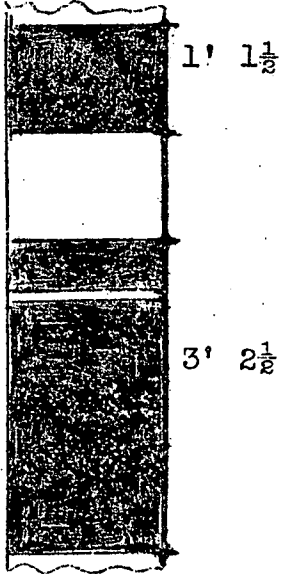
Coal bright, fragmentary

62' 0"

56' 6" Liddell
 Coal & sh. Seam 5' 6"
 62' 0"

Sh. gw. 18' 0"

80' 0"



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 44T

Elevation: 432.4' ASL

Reference: BMR Map N14/110, June 1953.

Datum: Standard

Begun: 31.10.52

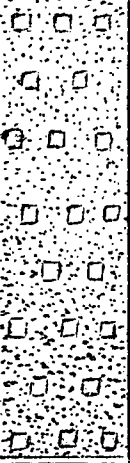
Finished: 7.11.52

Depth: 125' 0"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')

80' 0"



Cont.

Shale gw.

32' 6"

112' 6"

Coal, shale

7' 6"

Barretts
Seam.

120' 0"

Shale, gw.

5' 0"

125' 0"

HM	V	FC	Ash	BThU
3.5	32.7	60.5	13.3	12.26

Coal, bright.

112' 6"

114' 2"

114' 5 $\frac{1}{2}$ "

3.1	28.6	39.2	29.1	9.600
-----	------	------	------	-------

Coal, bright.

116' 3"

117' 1"

Coal generally dull.

3.0	31.8	46.8	18.4	11.710
-----	------	------	------	--------

Coal dull & bright.

120' 0"

1' 8"

1' 9 $\frac{1}{2}$ "

2' 11"

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 45T

Elevation: 433.2' ASL

Reference: BMR Map N14/110, June 1953.

Datum: Standard

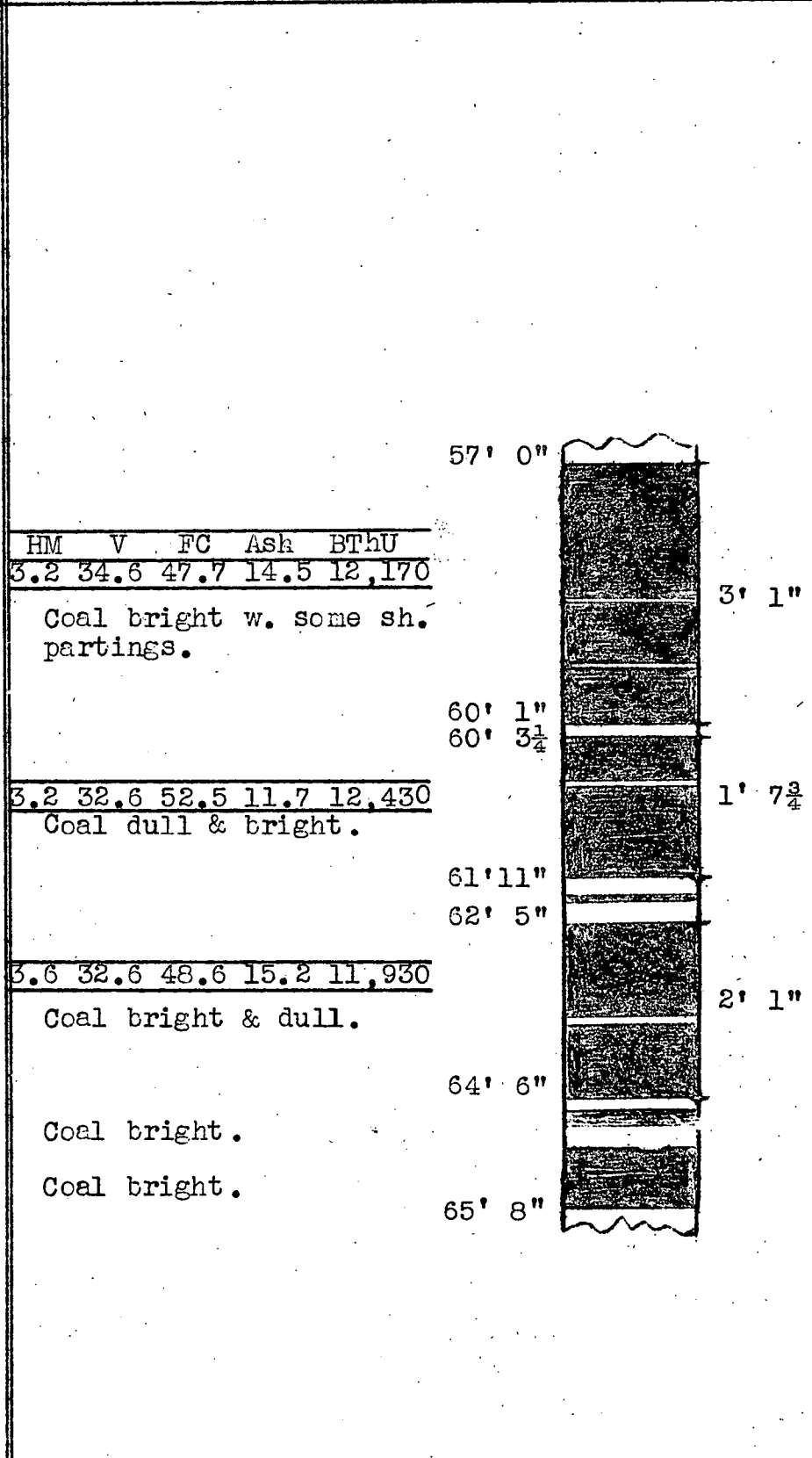
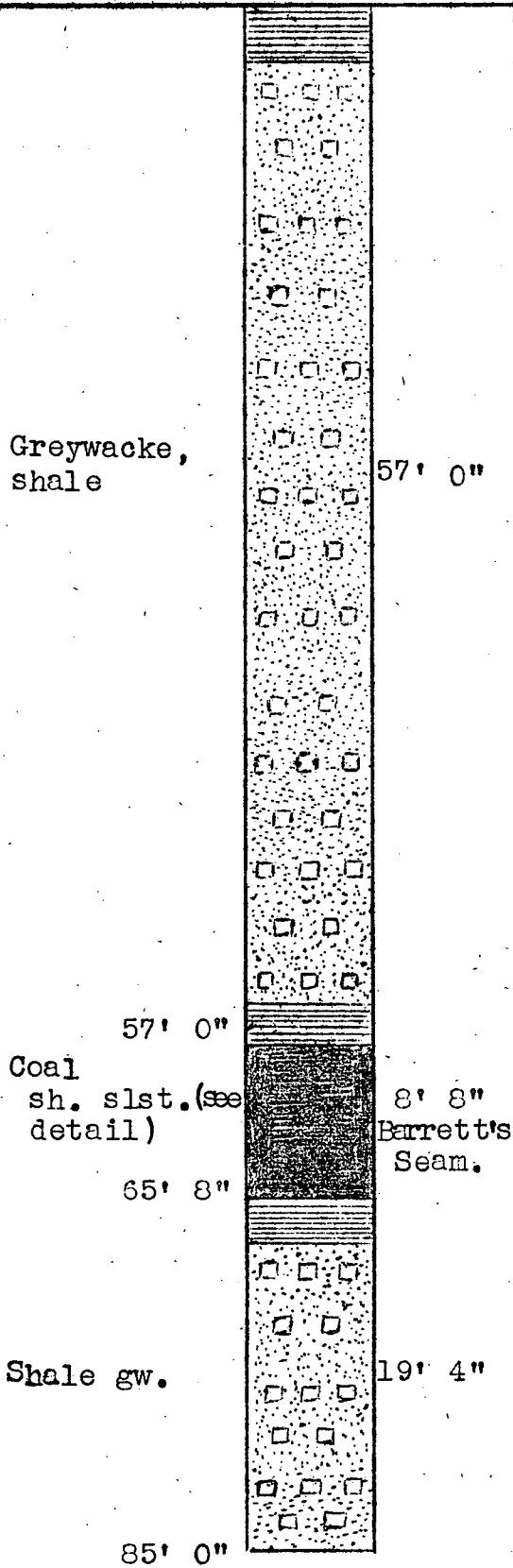
Begun: 2.11.52

Finished: 4.11.52

Depth: 85' 0"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 46T

Elevation: 419.1' ASL

Reference: BMR Map N14/110, June 1953.

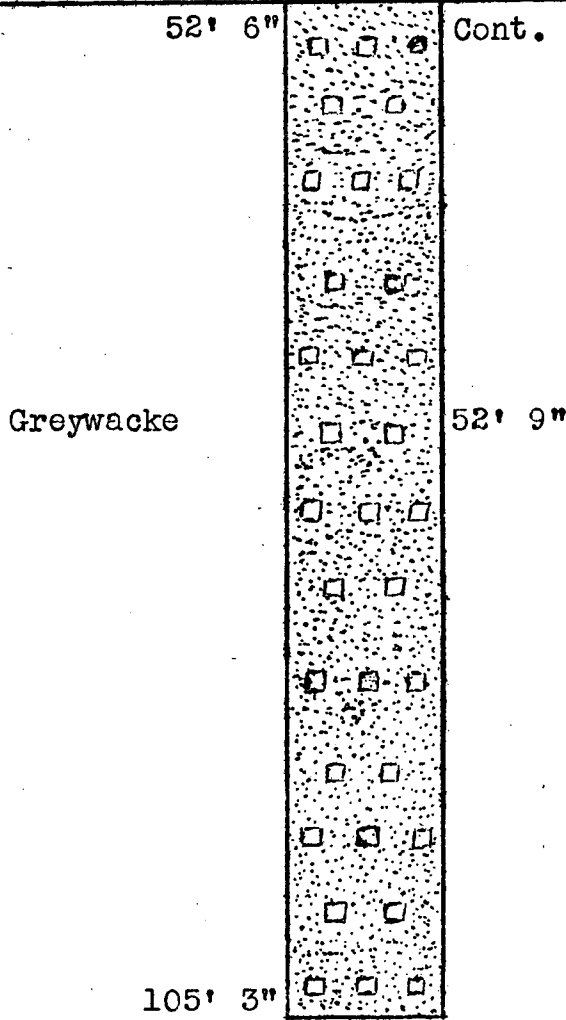
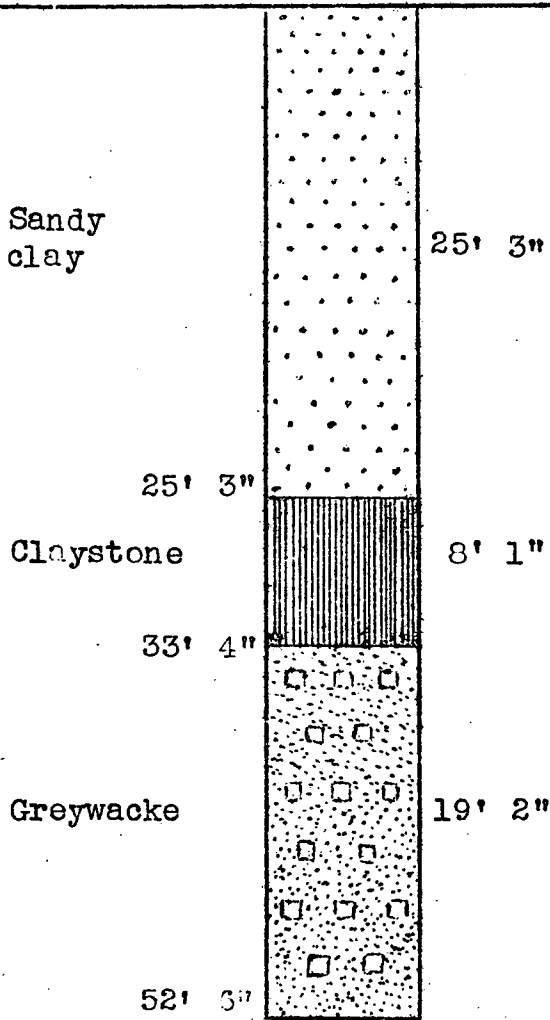
Datum: Standard

Begun: 5.11.52

Finished: 7.11.52

Depth: 105' 3"

STRATIGRAPHIC LOG (1"-10')



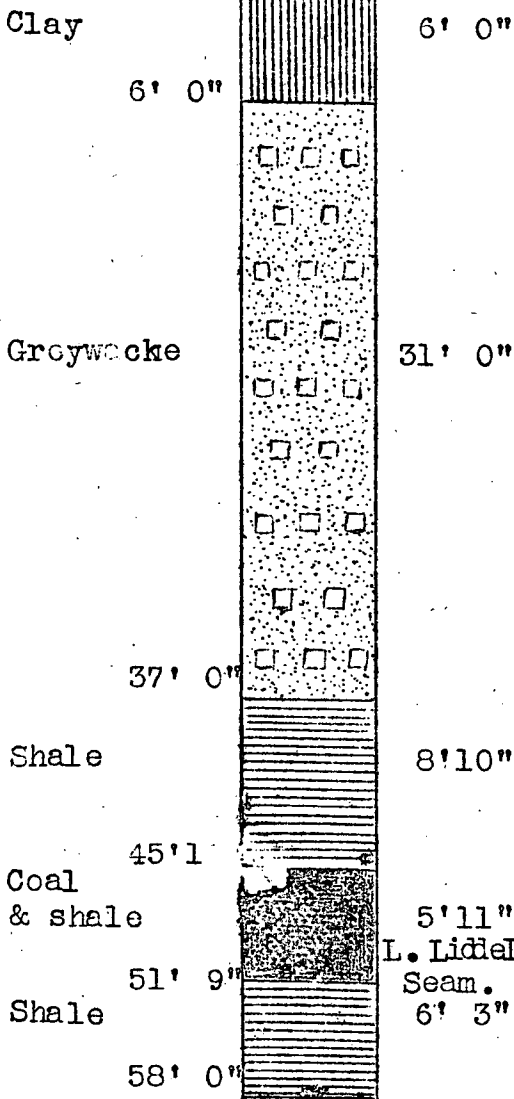
COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 47T Elevation: 466.2' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 4.11.52 Finished: 11.11.52 Depth: 121' 7"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



Coal d. & brt. shaly.

Coal dull.

Coal generally dull
 Coal bright

HM	V	FC	Ash	TBTRU
3.3	32.8	46.5	17.4	11,560

Coal brt w. a t. shale band.

45' 10"

46' 3 1/2"

48' 0"

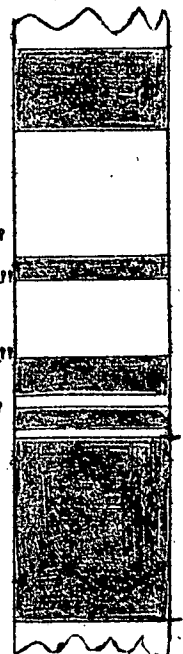
48' 2 1/2"

49' 0 1/2"

49' 9"

49' 10"

51' 9"



1' 11"

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 47T

Elevation: 466.2' ASL

Reference: BMR Map N14/110, June 1953.

Datum: Standard

Begun: 4.11.52

Finished: 11.11.52

Depth: 121' 7"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')

58' 0"



Cont.

Shale
gw. slst.

45' 4"

103' 4"

Coal
sh. slst.

Barrett's
Sean.
7' 11 1/2"

111' 3 1/2"

Shale, gw.

10' 3 1/2"

121' 7"

103' 4"

HM	V	FC	Ash	BThu
3.1	37.7	52.1	7.1	13,380
Coal generally bright.				

2' 4"

105' 8"

105' 10 1/2"

3.2	31.0	46.3	19.5	11,360
Coal generally bright.				

1' 2"

107' 0 1/2"

107' 2 1/2"

3.2	36.7	53.3	6.8	13,390
Coal, bright.				

10"

108' 0 1/2"

108' 4"

3.3	31.9	47.3	17.5	11,880
Coal generally bright.				

1' 1"

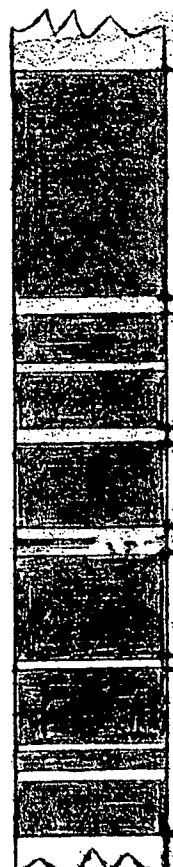
109' 5"

109' 6 1/2"

3.1	31.9	46.2	18.8	11,500
Coal, bright.				

1' 9"

111' 3 1/2"



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 48T Elevation: 436.4' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 5.11.52 Finished: 5.11.52 Depth: 60' 0"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')

Clay 4' 0" 4' 0"

Greywacke shale 35' 11"

39' 11"

Coal sh. slst. (see detail) 8' 9" Barrett's Seam

48' 8"

Shale slst. gw. 11' 4"

60' 0"

39' 11" 2' 11"

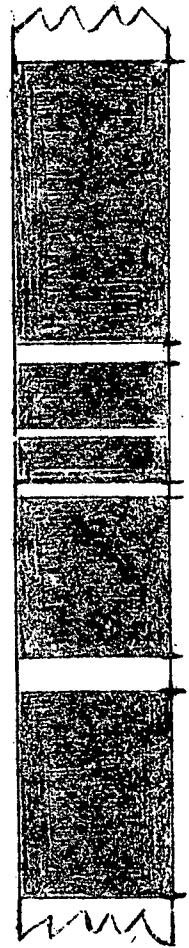
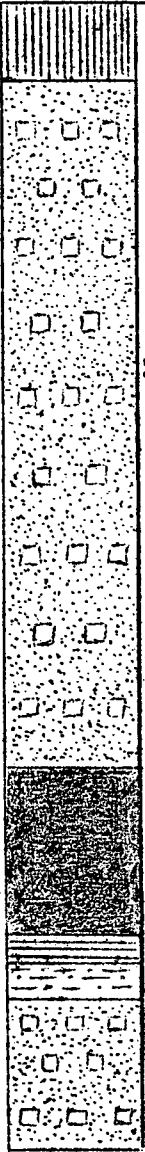
42' 10" 43' 0 1/2 1' 3 1/2"

44' 4" 44' 5 1/2 1' 8"

46' 1 1/2 46' 6"

48' 8" 2' 2"

No coal analysed



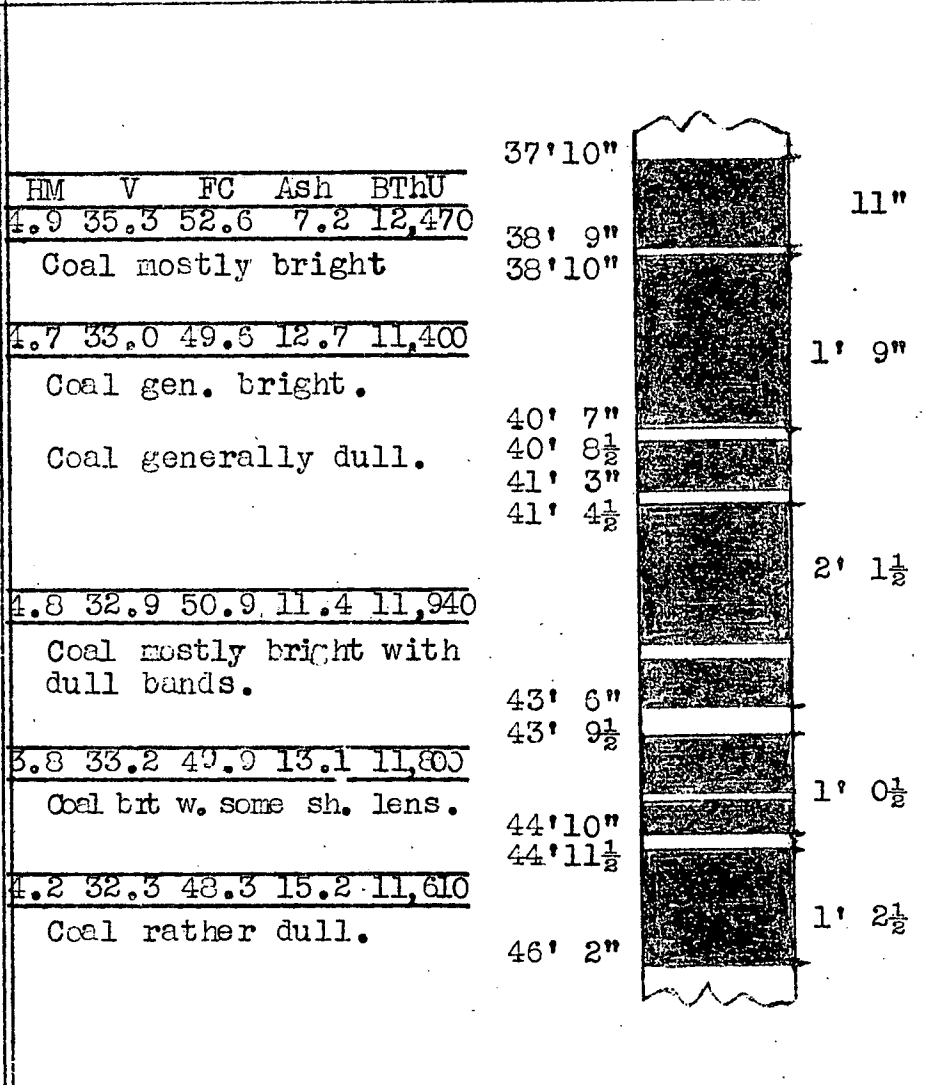
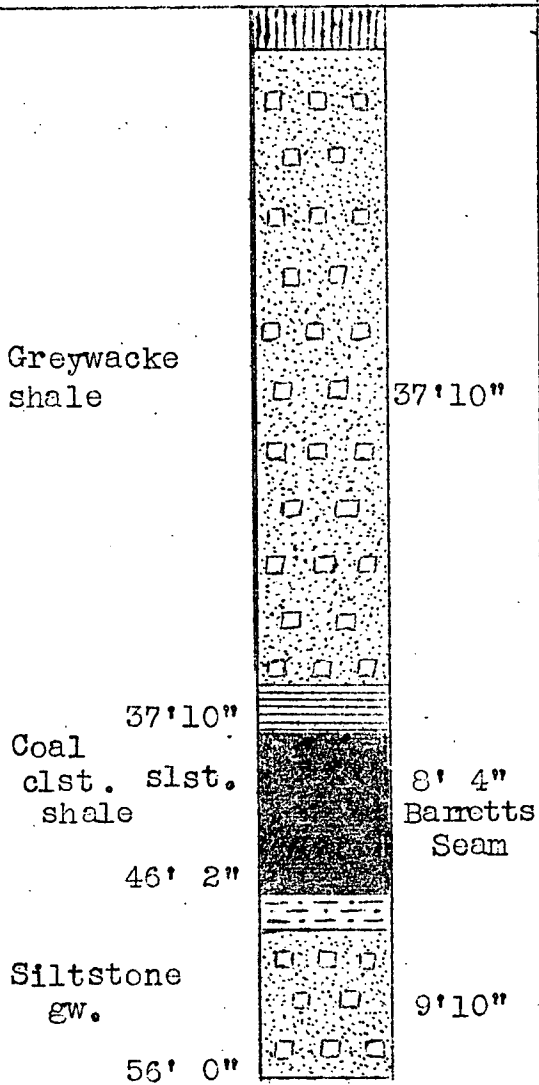
COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 49T Elevation: 437.9' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 6.11.52 Finished: 7.11.52 Depth: 56' 0"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



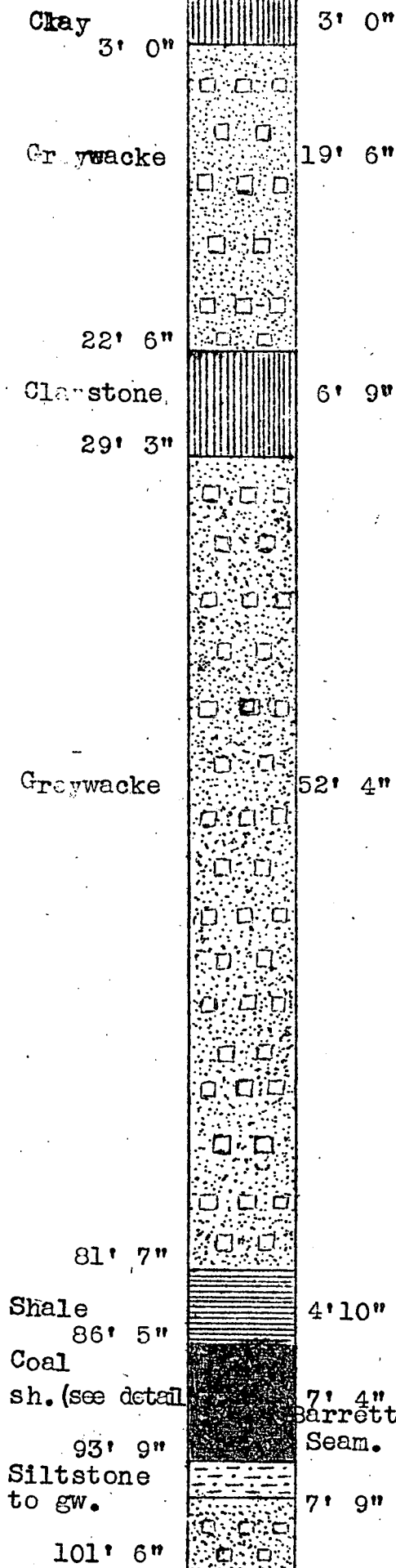
COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

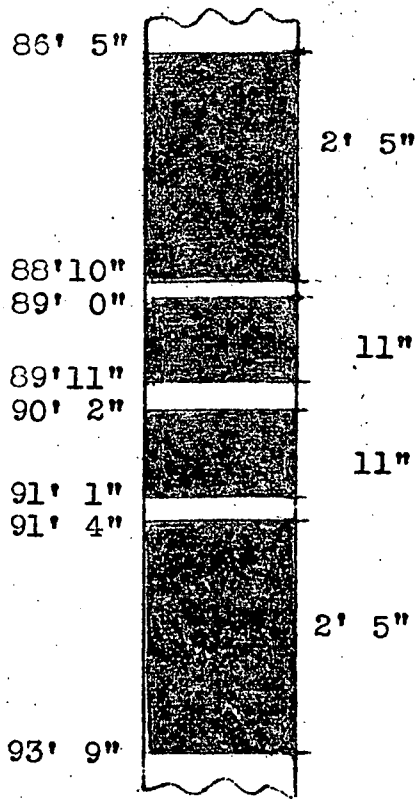
Area: Parnell's Creek Hole No: BMR 50T Elevation: 443.2 ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 10.11.52 Finished: 13.11.52 Depth: 101' 6"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



HM	V	FC	Ash	BThu
3.1	37.1	49.8	10.0	12.840
Coal dull.				
4.0	30.1	48.4	17.5	11.470
Coal, generally dull.				
3.5	36.4	52.2	7.9	13.110
Coal generally bright.				
3.7	34.3	51.4	10.6	12.590
Coal generally bright.				



Barrett's Seam.

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 51T Elevation: 460.2 ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 8.11.52 Finished: 10.11.52 Depth: 65' 0"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')

Sandy clay

20' 0"

20' 0"

Claystone

19' 2 1/2"

39' 2 1/2"

Coal, shale

11' 11 1/2"

51' 2"

Artie's Seam.

Greywacke

13' 10"

65' 0"

39' 2 1/2"

HM	V	FC	Ash	BThU
8.3	30.2	52.7	8.8	10.730

Coal rather dull w. some brown shale.

41' 0"

HM	V	FC	Ash	BThU
4.5	35.6	52.7	7.2	11.820

Coal, generally bright broken to fragmentary.

2' 4"

Coal bright

43' 4"

43' 9"

HM	V	FC	Ash	BThU
3.2	31.3	50.5	15.0	11.330

Coal, mostly dull.

1' 9"

45' 6"

HM	V	FC	Ash	BThU
3.2	33.8	54.0	9.0	12.160

Coal mostly bright.

1' 0"

46' 6"

46' 11"

HM	V	FC	Ash	BThU
3.0	30.8	45.2	21.0	10.480

Coal generally dull, frag. & shattered, shy

2' 4 1/2"

49' 3 1/2"

HM	V	FC	Ash	BThU
3.1	32.3	47.0	17.6	11.250

Coal gen. brt. mostly shattered.

11 1/2"

Coal dull

50' 3"

Coal bright

50' 11"

51' 2"

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 52T

Elevation: 451.4' ASL

Reference: BMR Map N14/110, June 1953.

Datum: Standard

Begun: 9.11.52

Finished: 11.11.52

Depth: 120' 0"

STRATIGRAPHIC

LOG (1"-10')

Clay,
sand

5' 6"

5' 6"

60' 0"

Cont.

Sandy
silty sh.

20' 0"

14' 6"

Silt. w. f. grd
greywacke.

34' 0"

94' 0"

Shale

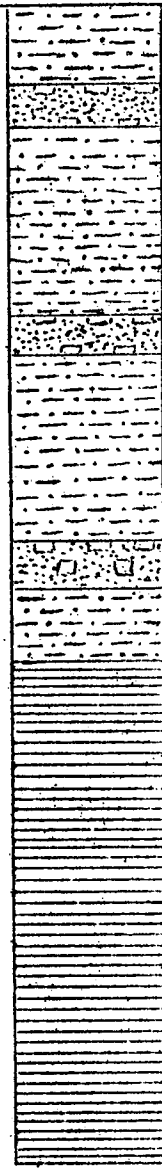
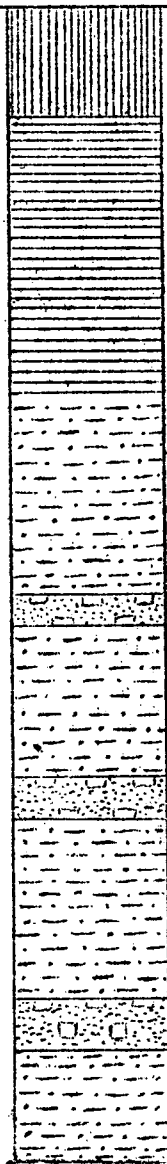
26' 0"

Siltstone with
fine grd. gw.

30' 0"

40' 0"

120' 0"



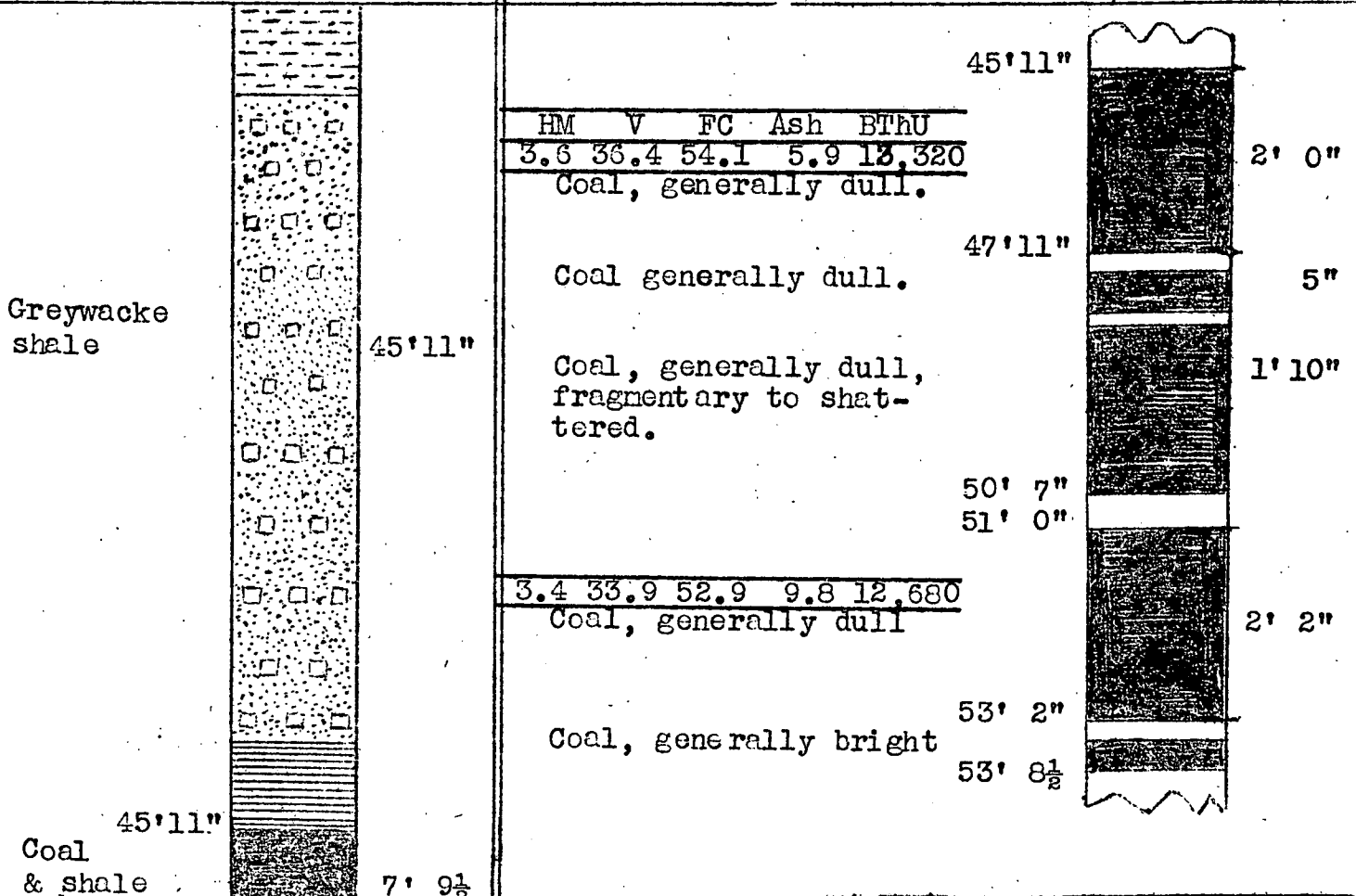
COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

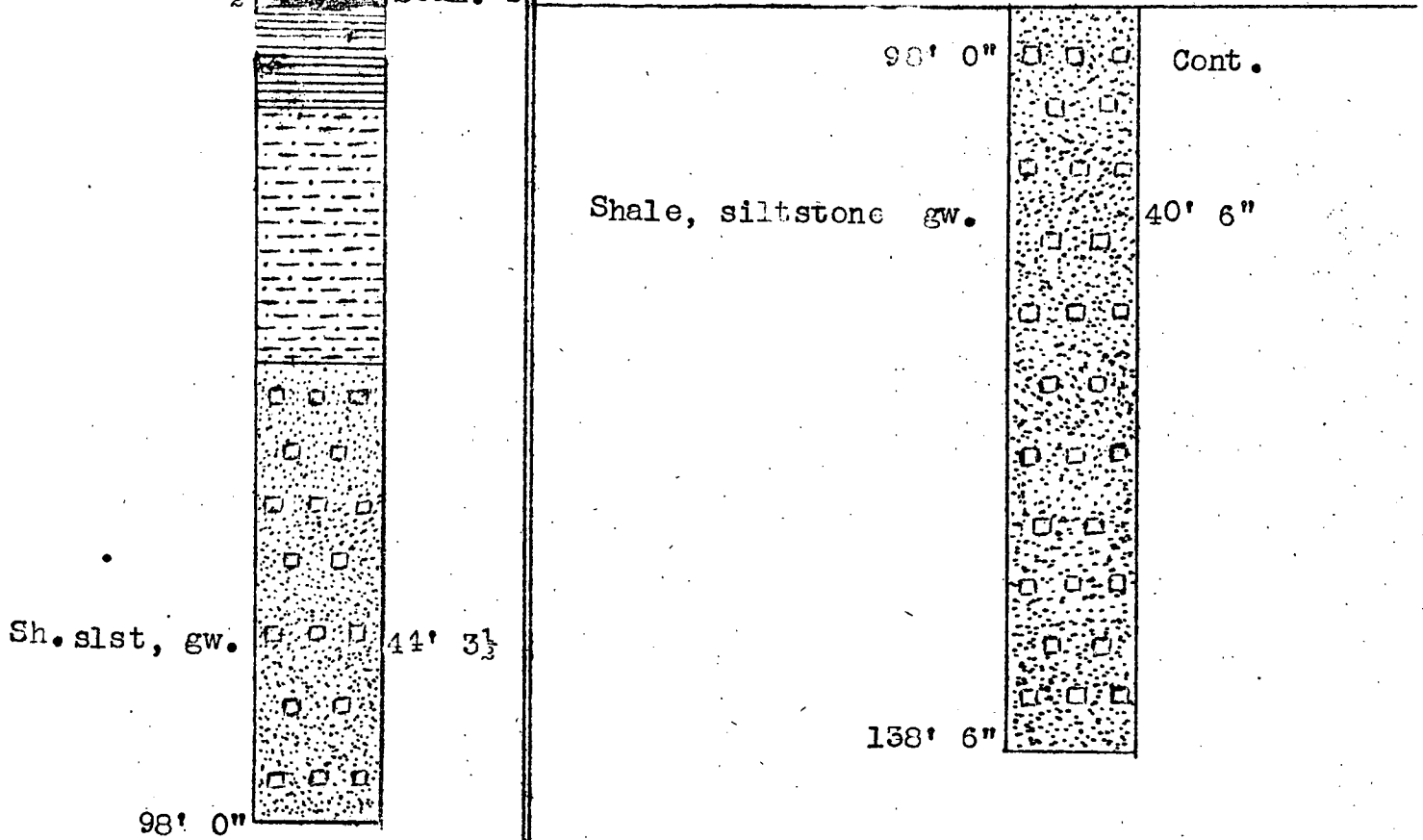
Area: Parnell's Creek Hole No: BMR 53T Elevation: 450.0' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 11.11.52 Finished: 18.11.52 Depth: 138' 6"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



STRATIGRAPHIC LOG (1"-10')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 54T

Elevation: 429.0' ASL

Reference: BMR Map N14/110, June 1953.

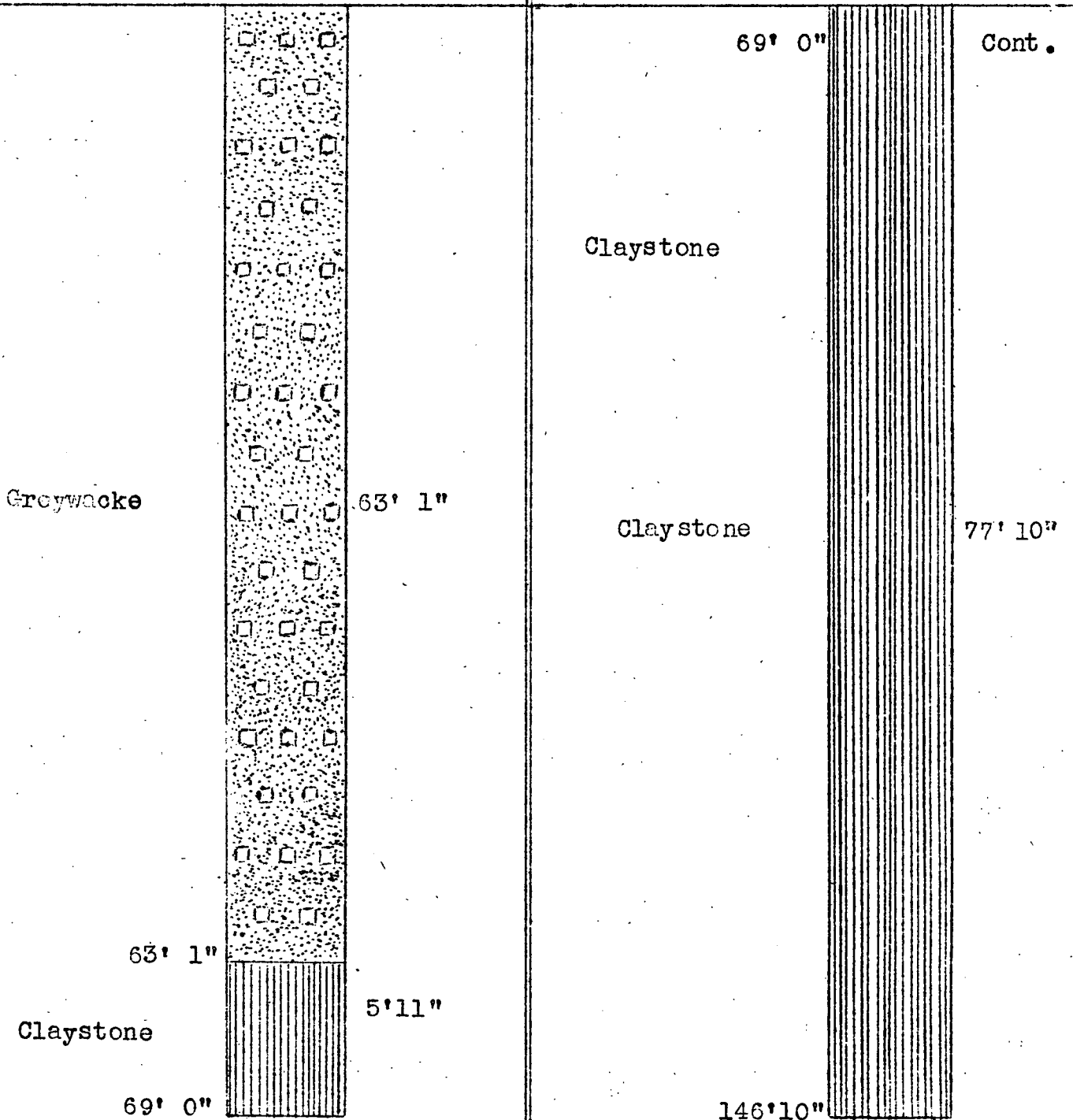
Datum: Standard

Begun: 12.11.52

Finished: 18.11.52

Depth: 146'10"

Stratigraphic Log (1"-10')

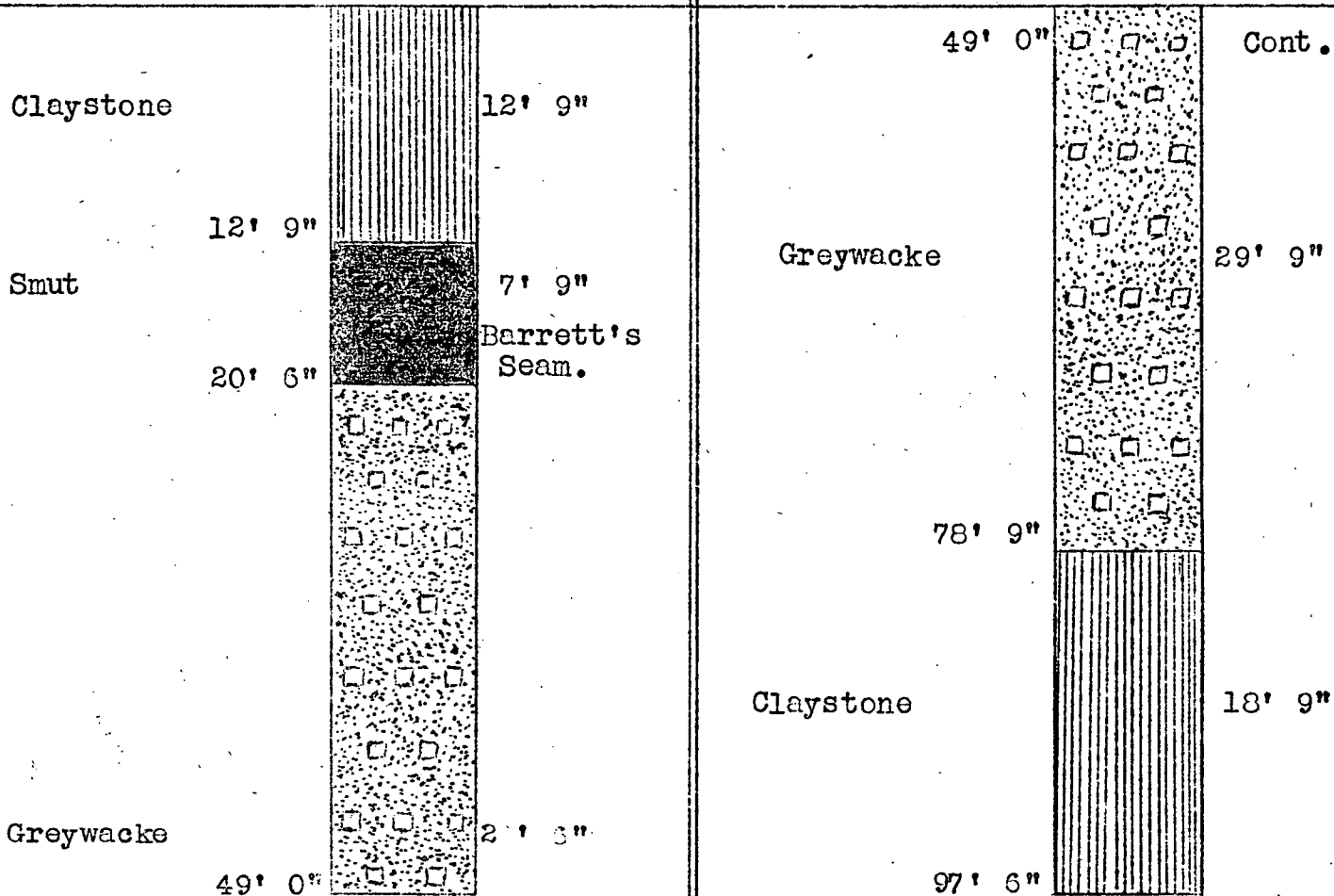


COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 55T Elevation: 452.6' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 14.11.52 Finished: 19.11.52 Depth: 97' 6"

Stratigraphic Log (1"-10')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: 56T Elevation: 494.1' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 18.11.52 Finished: 25.11.52 Depth: 113' 10"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')

Surface
clay &
shale

22' 0"

22' 0"

Gw.

8' 0"

30' 0"

Clst. &
smut

38' 5"

8' 5"
Artie's
Seam

Slst.
& sh.

31' 9"

70' 2"

Gw.

7' 0"

77' 2"

Shale

18' 0"

95' 2"

95' 2"

HM	V	FC	Ash	BThu
5.1	32.9	56.1	7.9	13,020

Coal, generally bright.

2' 8"

Coal dull, friable.

97' 10"

98' 5"

HM	V	FC	Ash	BThu
3.1	36.3	51.4	9.2	12,880

Coal, generally bright,
broken to shattered.

2' 9"

Coal, gen. b. shattered 101' 2"
 Coal dull 101' 4½"
 Coal dull 102' 1½"
 Coal dull 102' 7½"
 Coal bright 103' 1"

STRATIGRAPHIC LOG (1"-10')

Coal & bands.

95' 2"

103' 1"

Greywacke & shale

113' 10"

Cont.
7' 11"
Upper Liddell
Seam.

10' 9"

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 58T Elevation: 439.2' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 19.11.52 Finished: 23.11.52 Depth: 93' 0"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')

Claystone

33' 6"

33' 6"

Greywacke

34' 10"

Shale

68' 4"

5' 9"

Coal

81' 7"

7' 6"
Upper
Liddell

Greywacke

93' 0"

11' 5"

HM	V	FC	Ash	BThu
3.5	33.6	55.4	7.5	12,840
Coal, mostly dull, fragmentary to shattered.				
3.1	34.8	51.5	10.6	12,610
Coal, mostly dull.				
3.0	33.5	47.9	15.6	11,700
Coal mostly dull, shattered.				

74' 1"

2' 6"

76' 7"

2' 6"

79' 1"

2' 6"

81' 7"



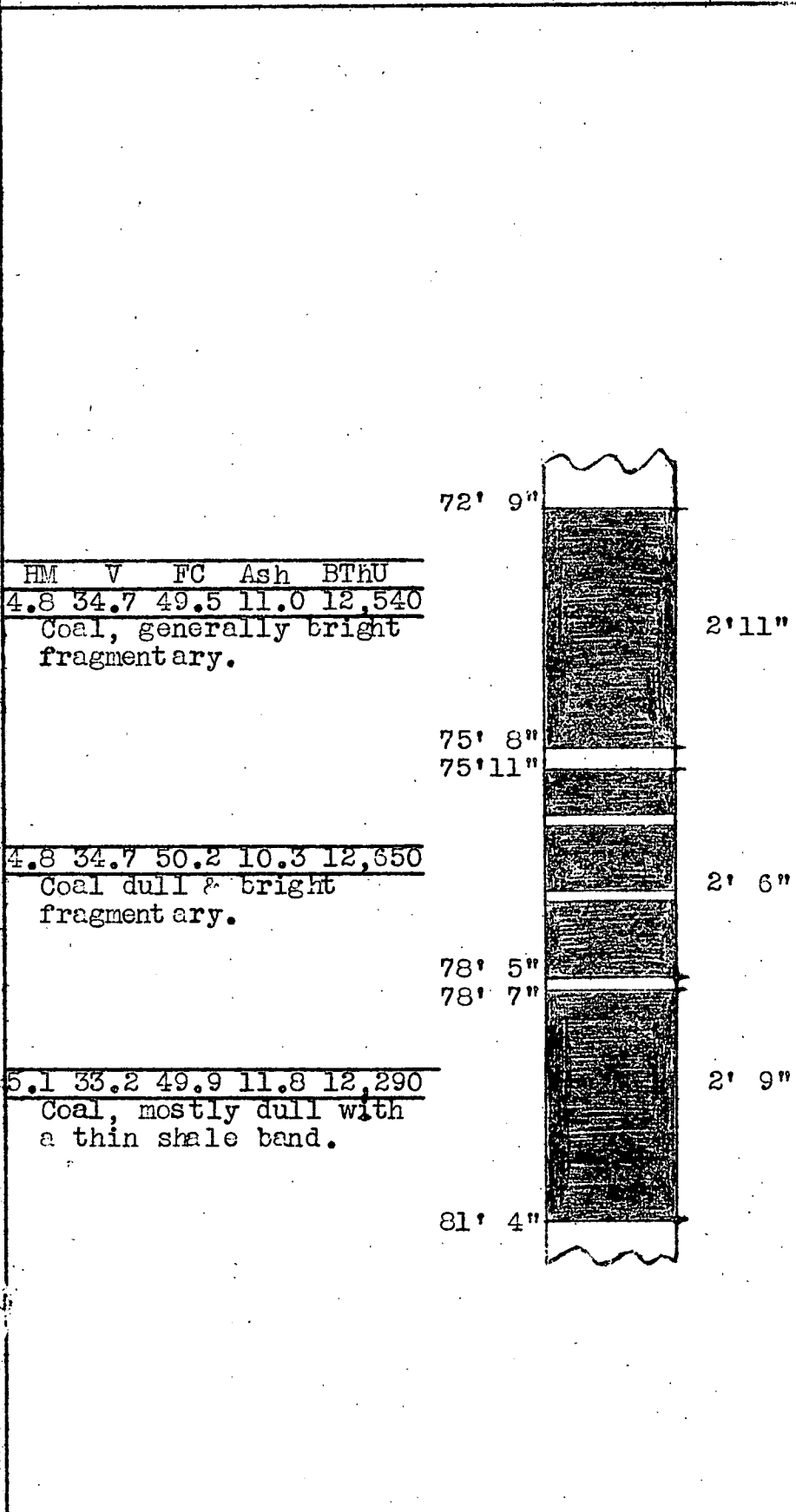
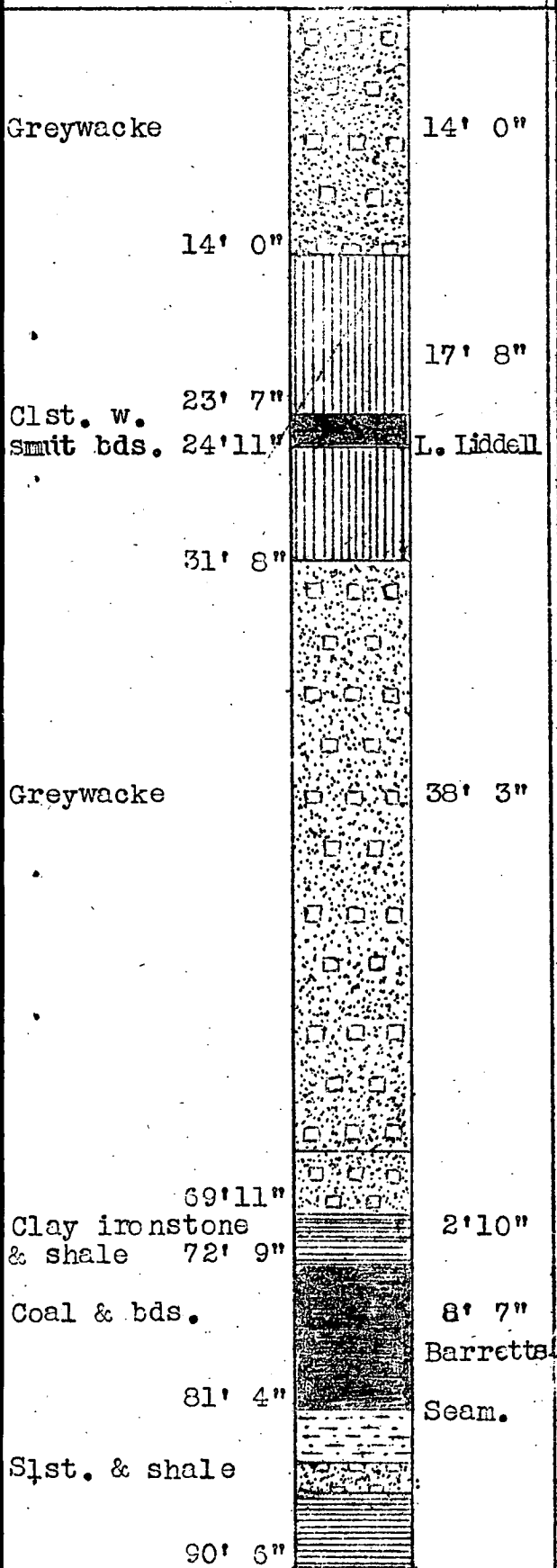
COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 57/59T Elevation: 429.8' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 18.11.52 Finished: 27.11.52 Depth: 90' 6"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 60T

Elevation: 652.3' ASL

Reference: BMR Map N14/110,

June 1953.

Datum: Standard.

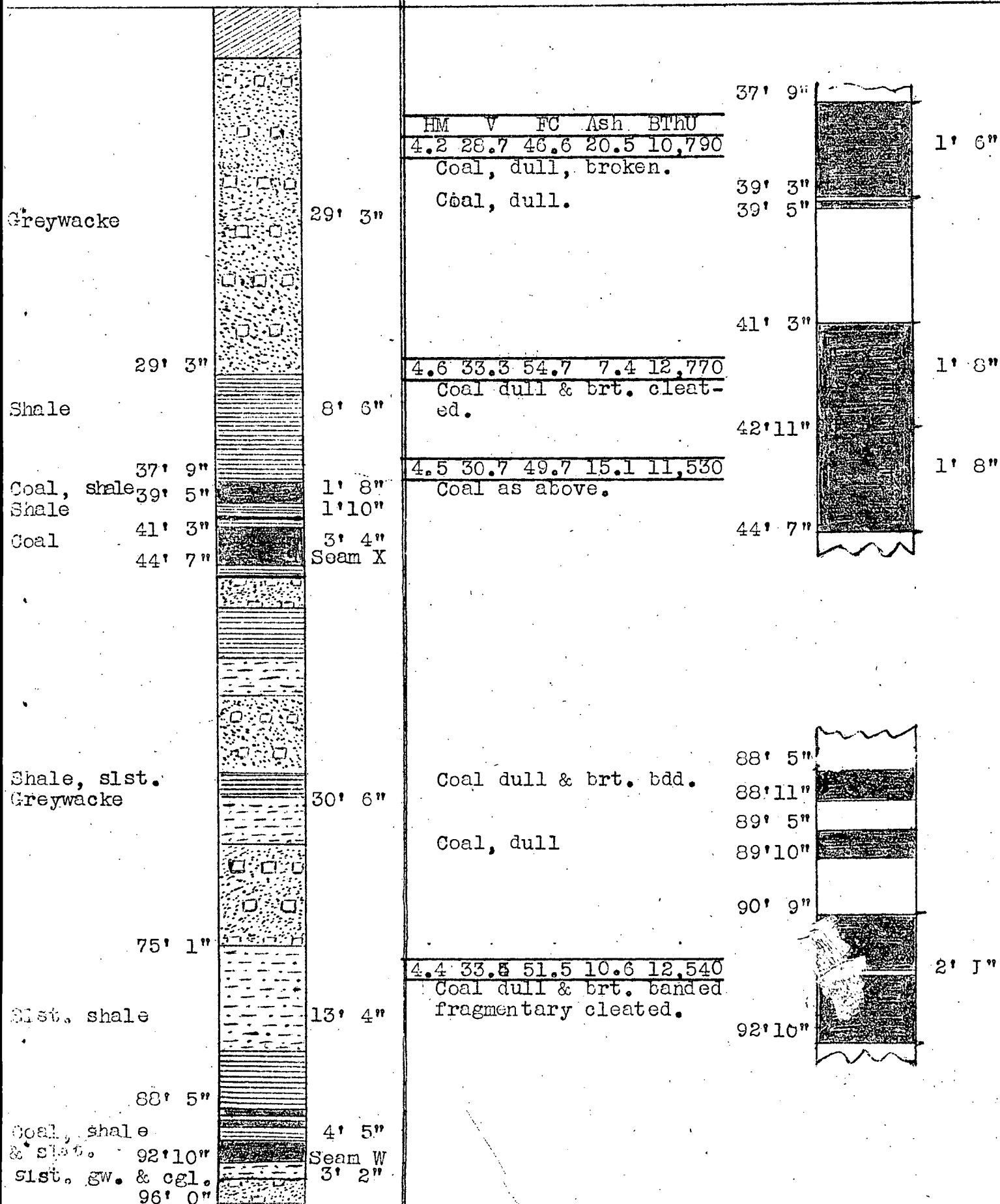
Begun: 28.11.52

Finished; 8.12.52

Depth: 174' 1"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



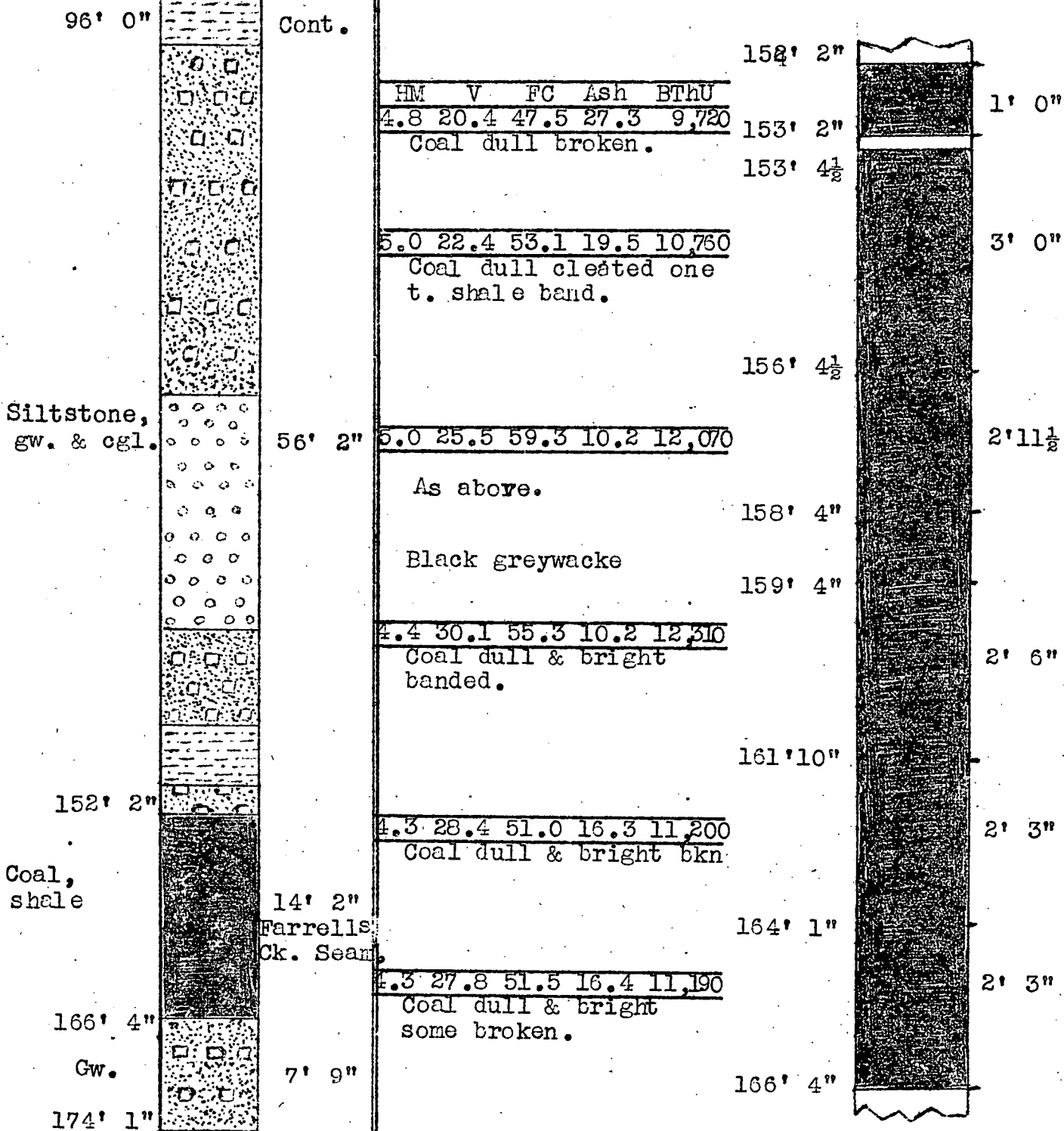
COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 60T Elevation: 632.3' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 28.11.52 Finished: 8.12.52 Depth: 174' 1"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 61T Elevation: 511.7' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 2.12.52 Finished: 3.12.52 Depth: 51' 8"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')

Sandy soil & gw.	4' 6"
Clst.	5' 6"
Clst.	4' 8"
Greywacke & slst.	12' 7"
Shale	5' 8 1/2"
Coal shale, gw. slst (see detail)	12' 7 1/2"
Gw.	6' 1"

Coal, mostly shaly fragmentary.	32' 11 1/2"
Coal dull	33' 10 1/2"
Coal dull	35' 0 1/2"
HM V FC Ash BThU 5.5 26.3 57.9 10.3 11,860	2' 0"
Coal dull, cleated.	37' 0 1/2"
Coal dull, broken & fragmentary.	37' 4"
Farrells Ck. Seam 3.9 29.7 55.1 11.3 12,200	2' 0"
Coal dull, broken & fragmentary.	39' 4"
As above	41' 3"
As above	43' 5"
As above	45' 7"



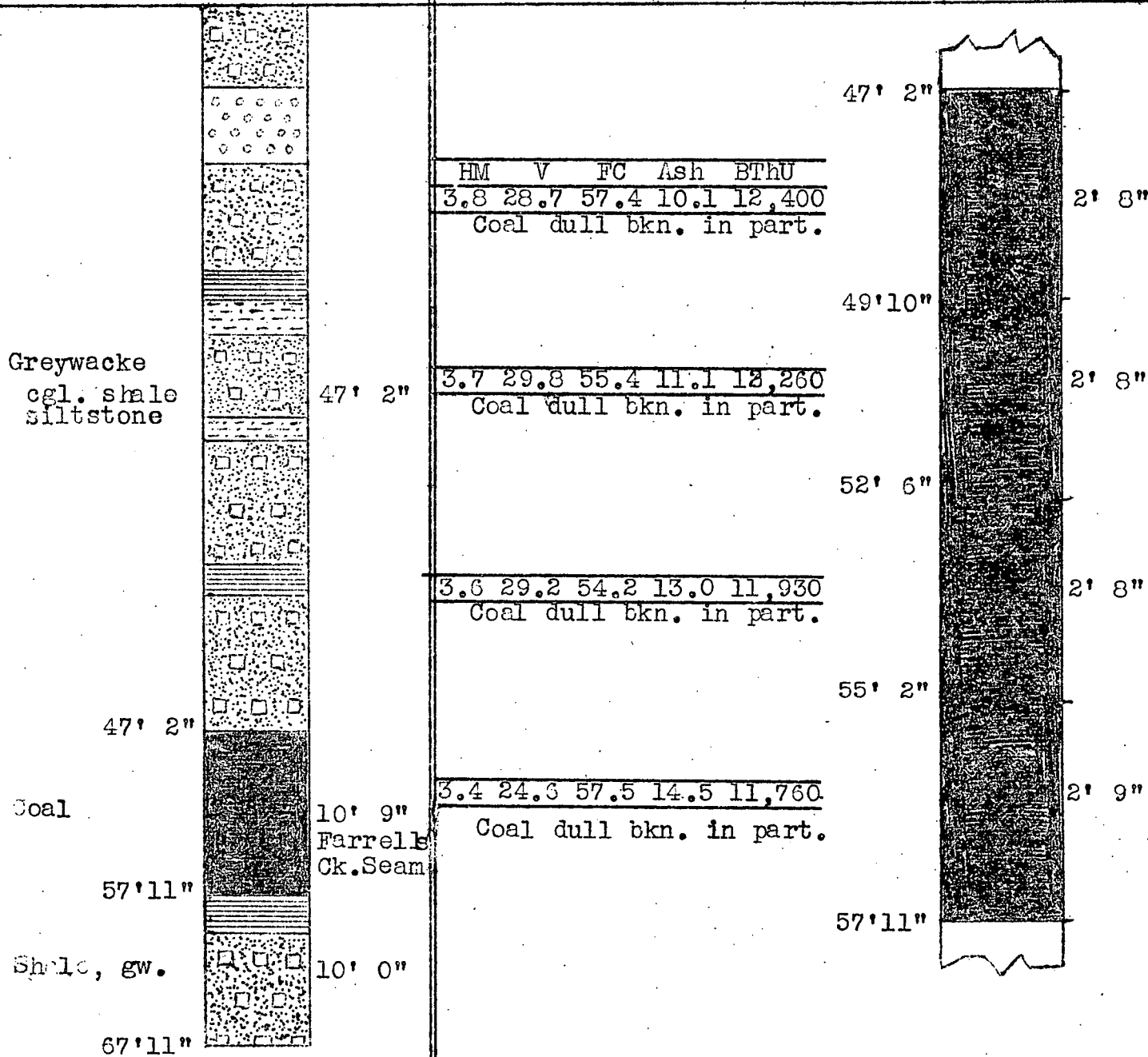
COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 62T Elevation: 575.6' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 4.12.52 Finished: 9.12.52 Depth: 67'11"

STRATIGRAPHIC LOG (1"=10')

COAL DETAIL (1"-2')



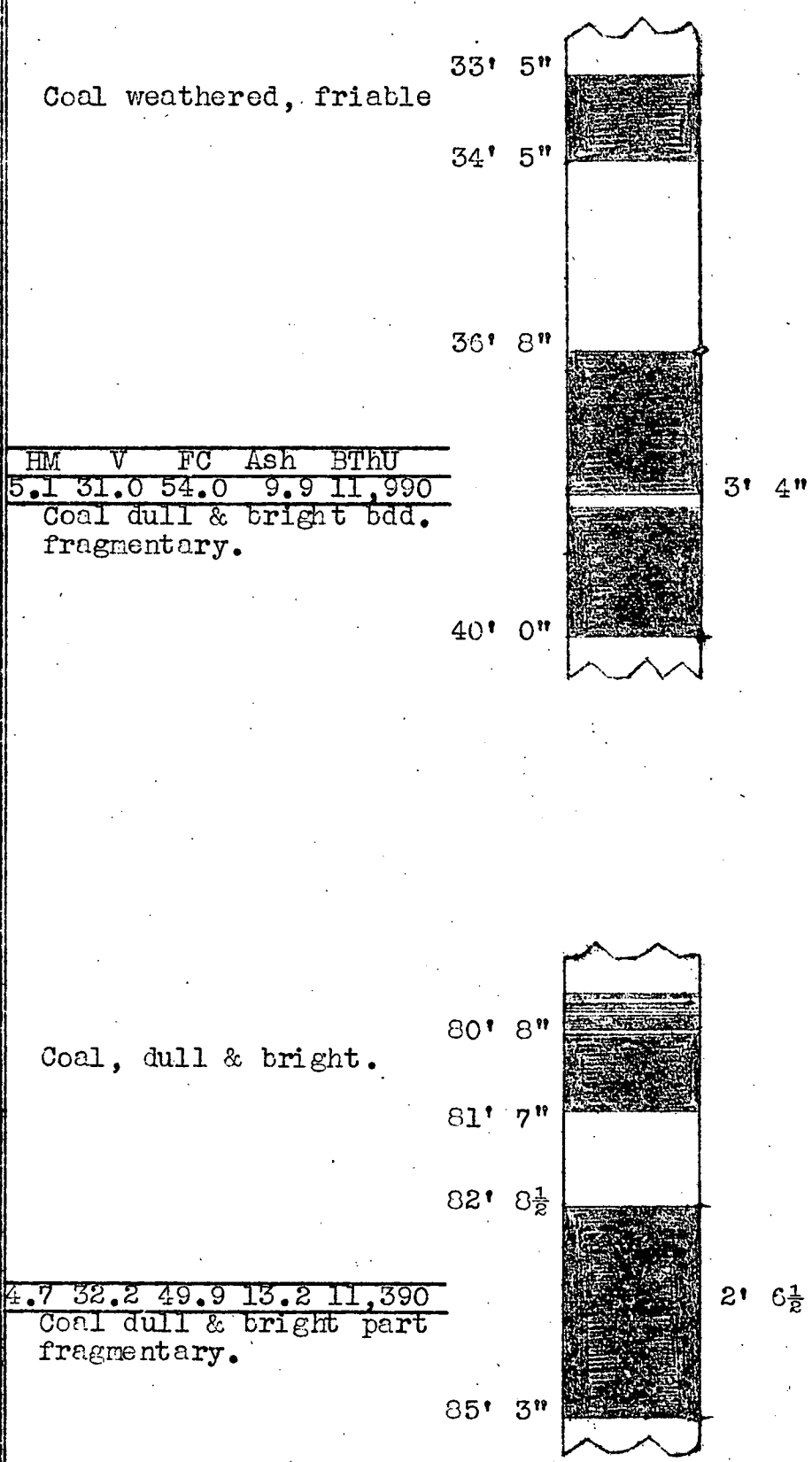
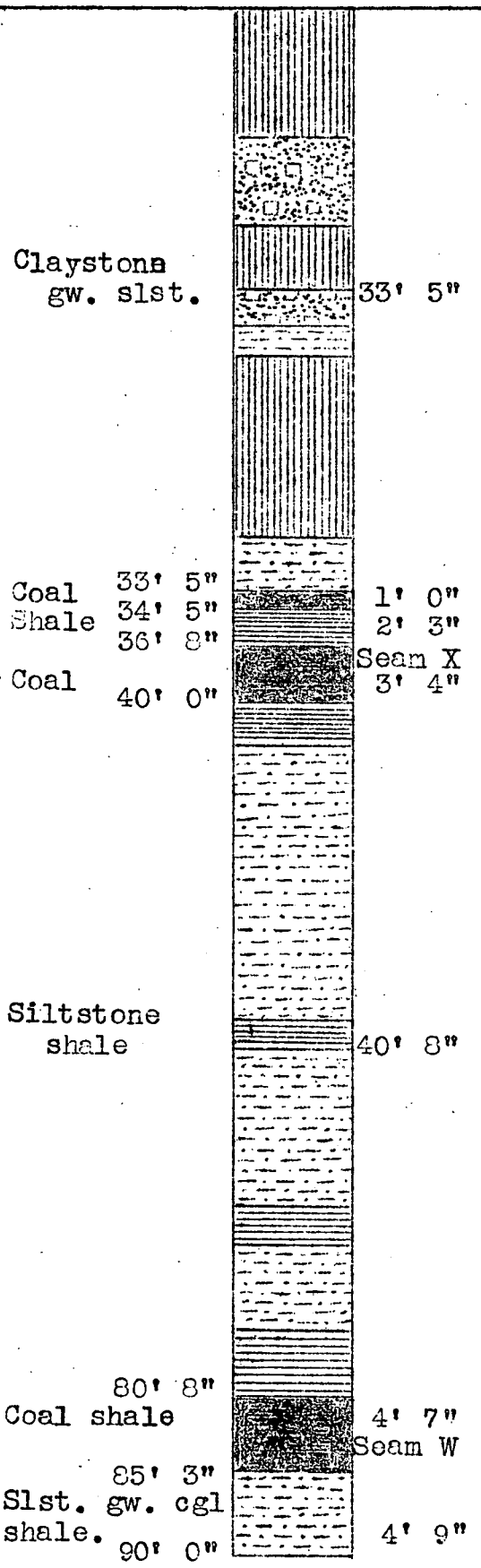
COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 63T Elevation: 603.0' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 9.12.52 Finished: 22.12.52 Depth: 170' 2"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 63T

Elevation: 606.0' ASL

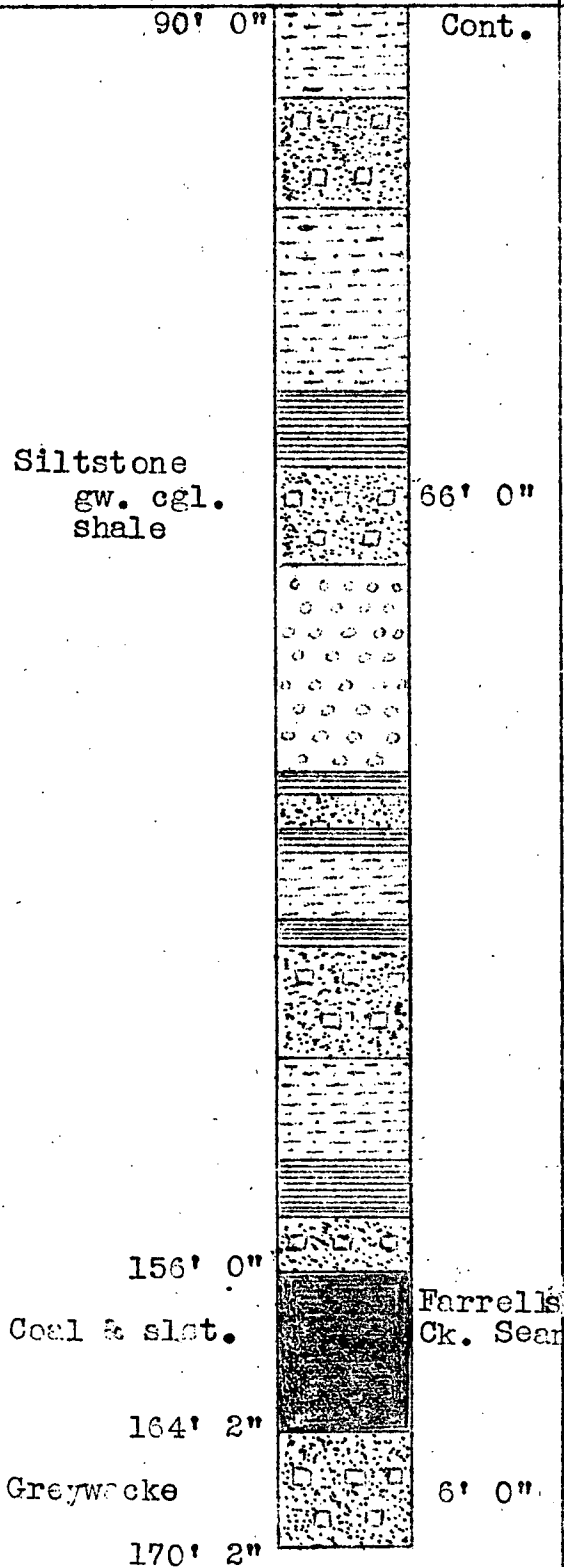
Reference: BMR Map N14/110, June 1953.

Datum: Standard

Begun: 9.12.52

Finished: 22.12.52

Depth: 170' 2"



HM	V	FC	Ash	BThU
4.2	30.2	56.6	9.0	12,440

Coal mostly dull bright
bdd. broken.

156' 0"

159' 4"

159' 5"

4.6	30.7	50.8	13.9	11,520
-----	------	------	------	--------

Coal dull & bright lam.
to banded.

162' 6 1/2"

Coal d. & brt. bdd.
w. c. grd. sdy. bds. 162' 11"

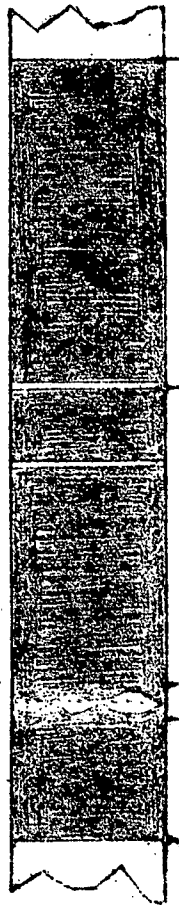
164' 2"

4.2	28.0	53.9	13.9	11,790
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Coal as above.

164' 2"

Farrells
Ck. Seam



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 64T Elevation: 535.3' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 9.12.52 Finished: 16.12.52 Depth: 130' 0"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')

Claystone 4' 0"

Greywacke 18' 2"
 clst. & shale

Carb. 22' 2"
 shale 25' 0"
 Seam W

Greywacke 73' 0"
 slst. & sh. w
 t. carb. lam.
 coal bands.

HM V FC Ash BThU
 4.6 30.1 55.4 9.9 12,340
 Coal mostly dull some
 d. & brt. bdd. some bkn

4.9 30.2 54.2 10.7 12,140
 Coal as above.

4.3 27.2 52.4 16.1 11,340
 Coal as above.

4.2 28.7 56.6 10.5 12,350
 Coal as above.

110' 11"

113' 8"

116' 5"

119' 2"

121' 11"

2' 9"

2' 9"

2' 9"

2' 9"

STRATIGRAPHIC LOG (1"-10')

Continued 98' 0"

12' 11"

110' 11"

Coal d. to brt. bds.

11' 0"
 Farrell's
 Cr. Seam.

121' 11"

Sh. & greywacke

123' 5"

Conglomerate

6' 7"

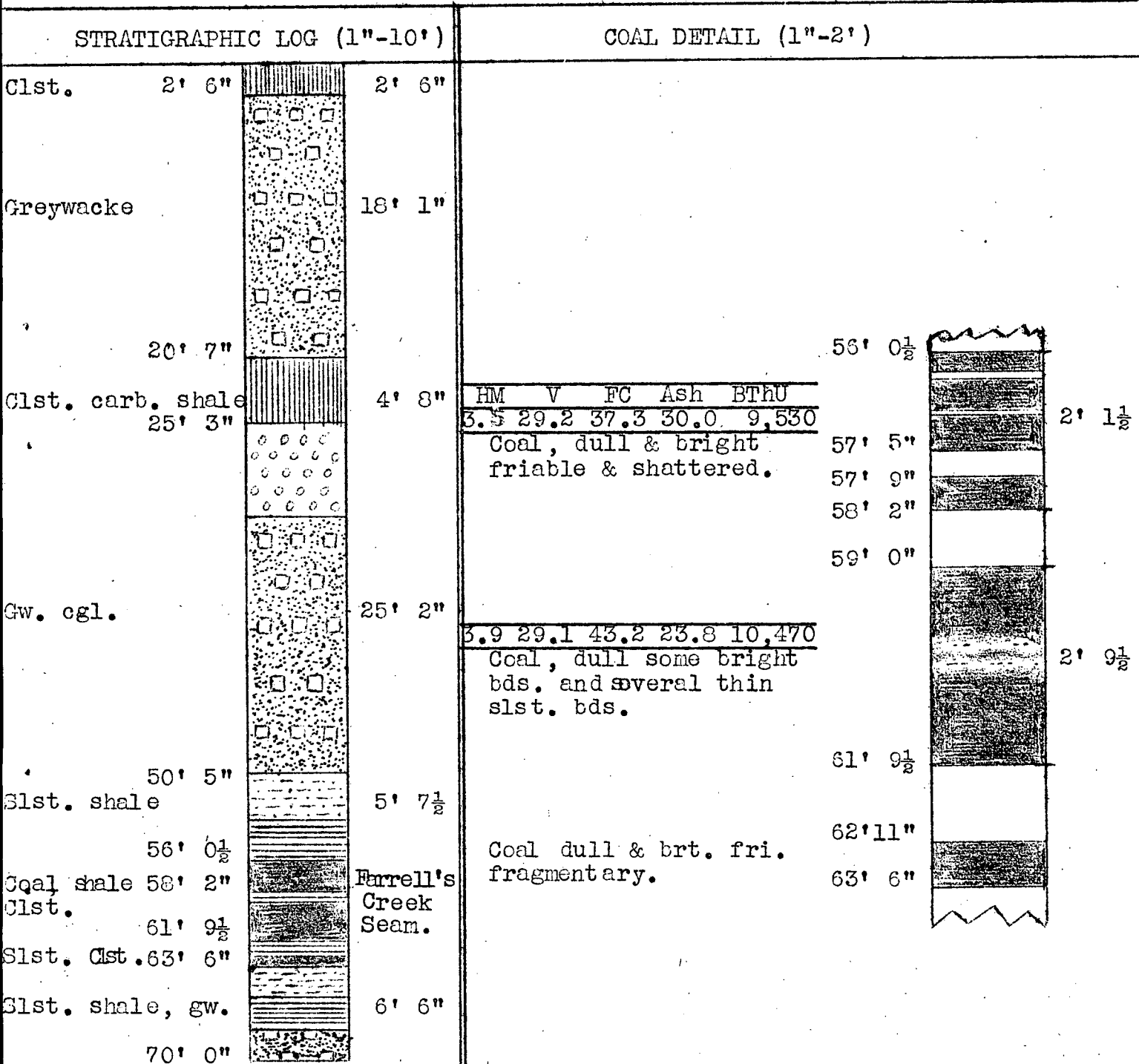
98' 0"

130' 0"

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 65T Elevation: 510.6' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 16.12.52 Finished: 19.12.52 Depth: 70' 0"



COMMONWEALTH OF AUSTRALIA

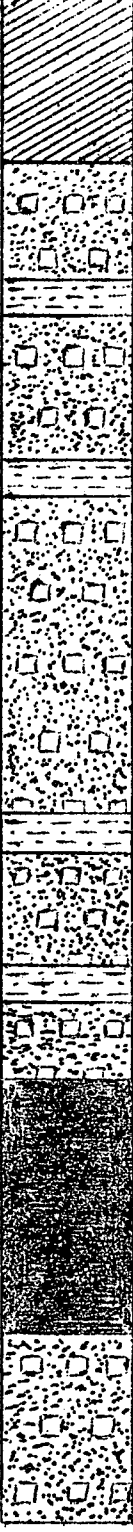
Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 66T Elevation: 512.1' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 2.1.53 Finished: 16.1.53 Depth: 150' 0"

STRATIGRAPHIC LOT (1"-10')

COAL DETAIL (1"-2')

Sandy clay & clay 8' 9"
 8' 9"
 Greywacke & Siltstone 48' 1"
 56' 10"
 Coal 13' 2"
 Shale 70' 0"
 71' 1"
 Greywacke 8' 11"
 80' 0"



HM	V	FC	Ash	BTrU	Coal Description	Depth
4.9	22.4	57.6	15.1	11,380	Coal mostly dull.	56' 10"
4.5	30.7	49.7	15.1	11,450	Coal coarsly granular.	60' 5" 60' 9"
4.3	31.6	52.2	11.9	12,100	Coal mostly dull w. some bright lam & bds. R. t. granular bd. as above	63' 2"
4.4	29.1	52.2	14.3	11,750	Coal dull & bright bdd. granular over bot.	65' 6"
4.4	25.2	53.4	17.0	11,160	Coal mostly dull.	67' 9"



Farrells Creek Seam.

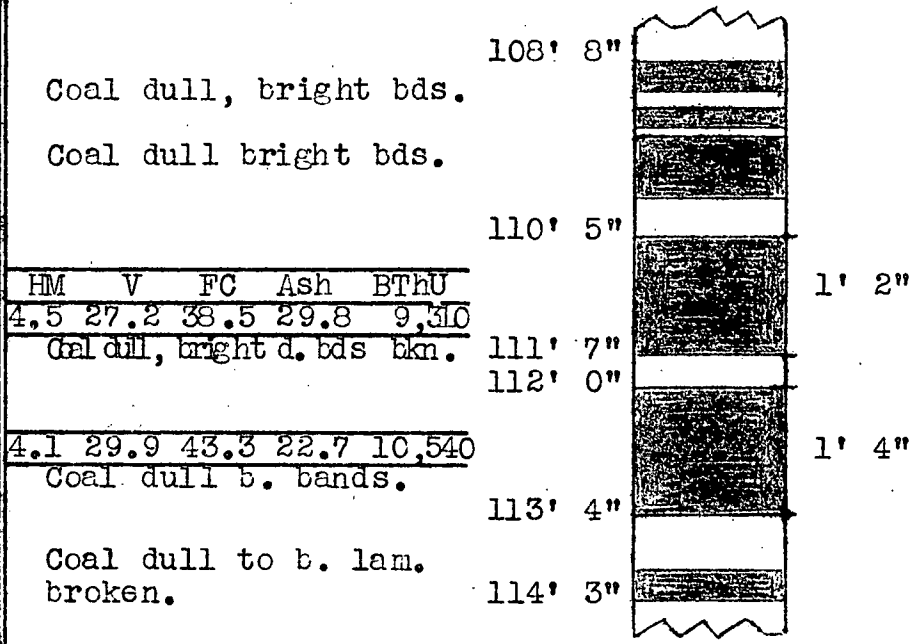
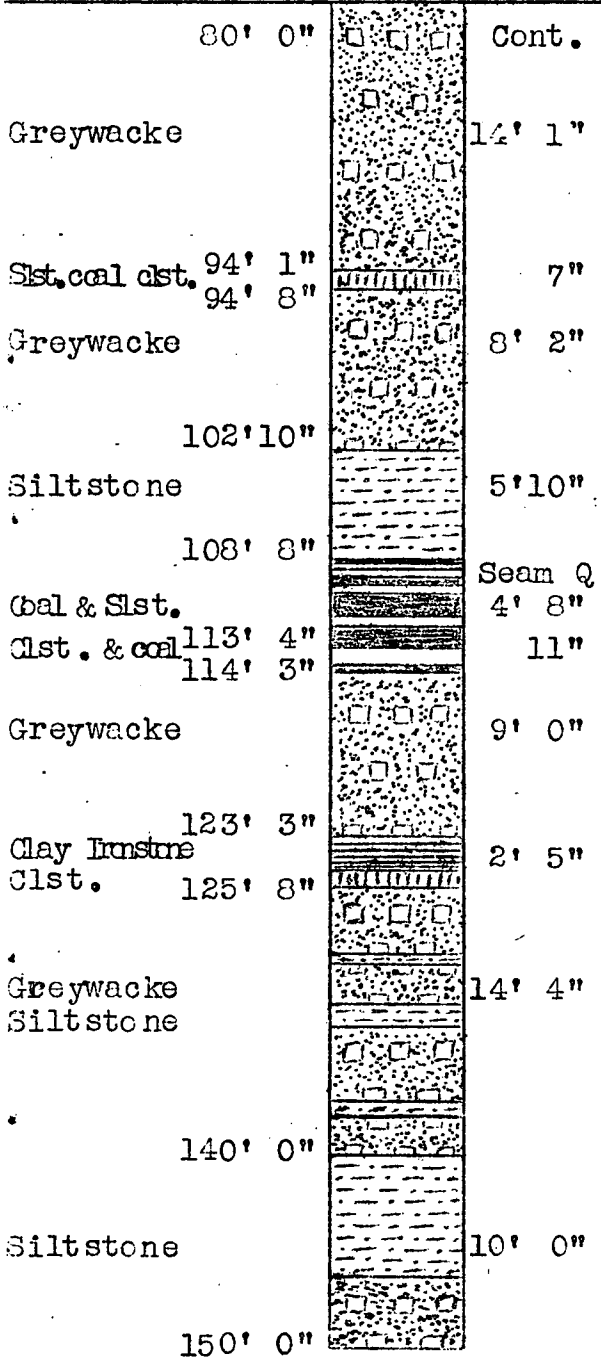
COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 66T Elevation: 512.1' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 2.1.53 Finished: 16.1.53 Depth: 150' 0"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 67T

Elevation: 500.9' ASL

Reference: BMR Map N14/110, June 1953.

Datum: Standard

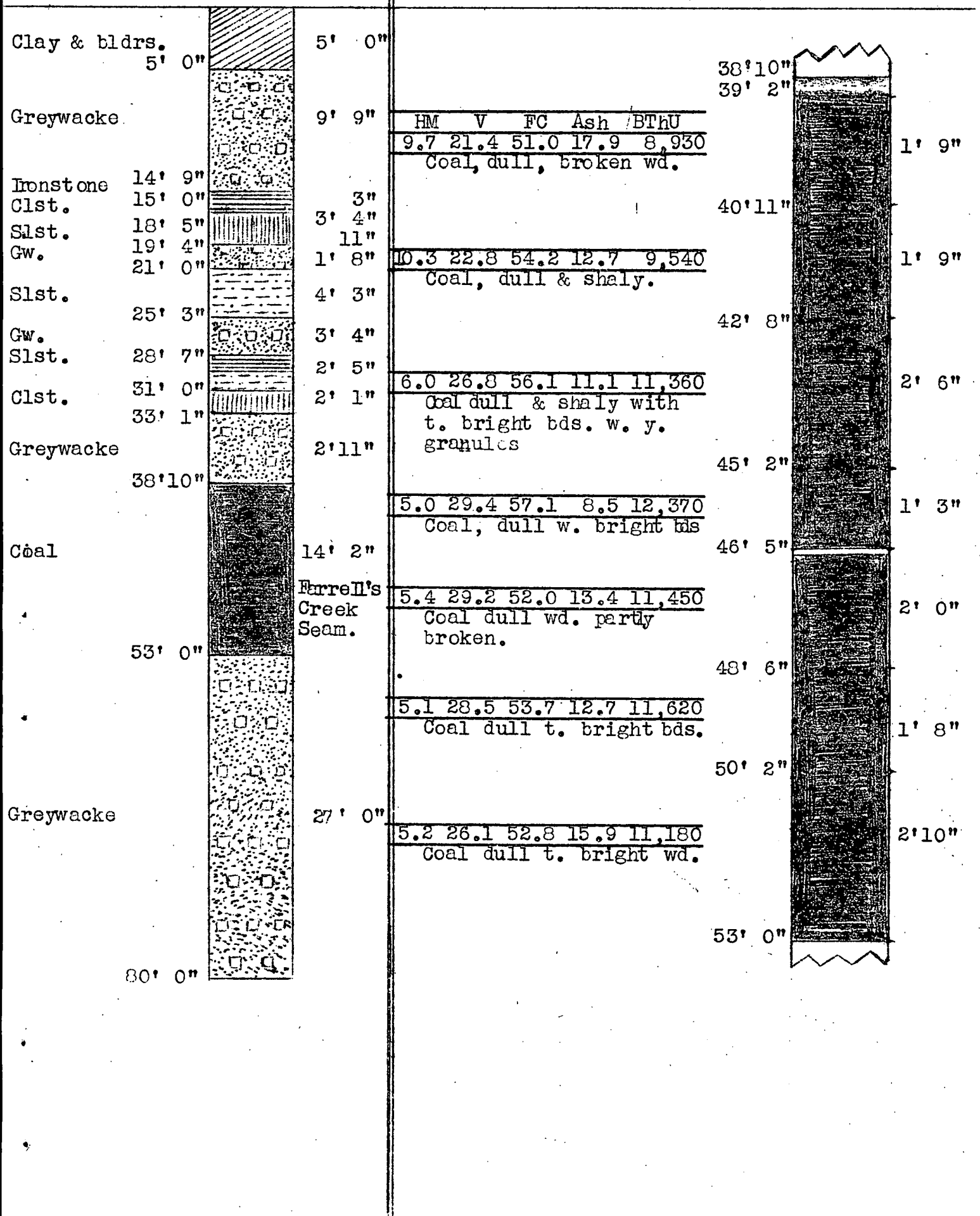
Begun: 17.1.53

Finished: 23.1.53

Depth: 129' 0"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')

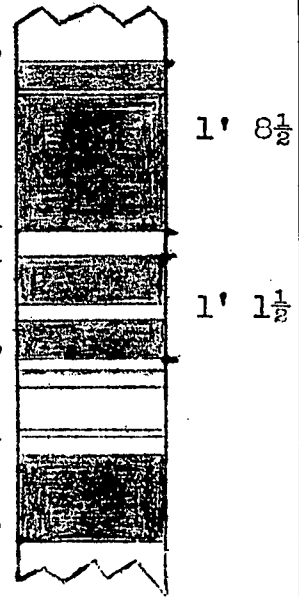


COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: 67T Elevation: 500.9' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 17.1.53 Finished: 23.1.53 Depth: 129' 0"

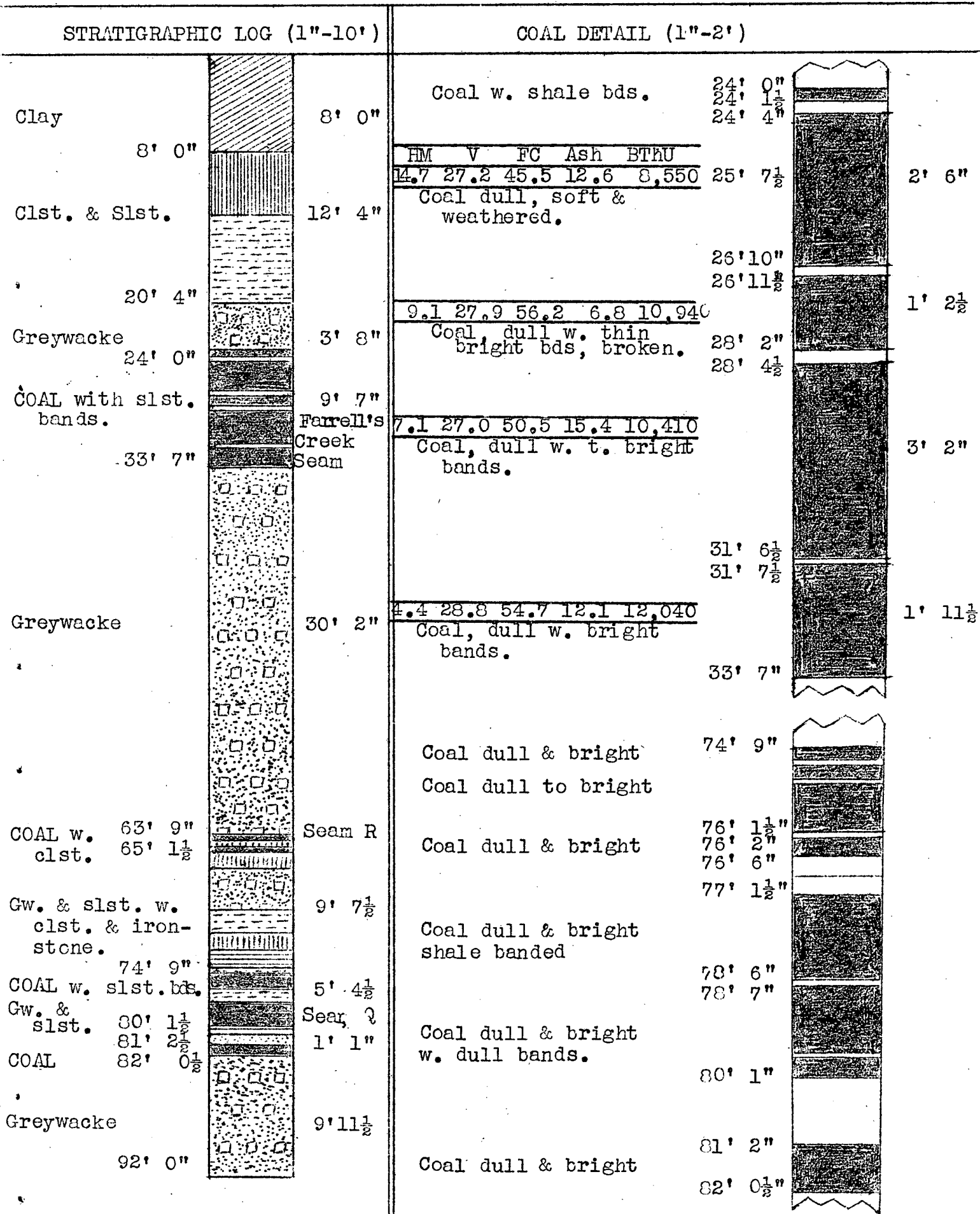
STRATIGRAPHIC LOG (1"-10')		COAL DETAIL (1"-2')	
Gw.	80' 0"	Cont	4' 0"
Coal w. shale.	84' 0"		
	84' 7 1/2"	Seam R.	6' 4 1/2"
Gw. w. slst.			
	91' 0"		2' 0"
Gw. Ironstone & clst.	93' 0"		96' 3"
Siltstone			3' 3"
	96' 3"		HM V FC Ash BThU
			3.9 28.8 41.3 26.0 10.170
Coal w. slst.		Coal, dull & bright bdd.	
	101' 2"		97' 11 1/2"
Gw. clst. & coal	102' 9"	Seam Q	98' 2 1/2"
			4.3 25.3 34.8 35.6 - -
		Coal, dull w. slst. bds.	99' 4"
			100' 3 1/2"
Gw. w. slst. & ironstone.		Coal, dull.	101' 2"
	26' 3"		
	129' 0"		



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

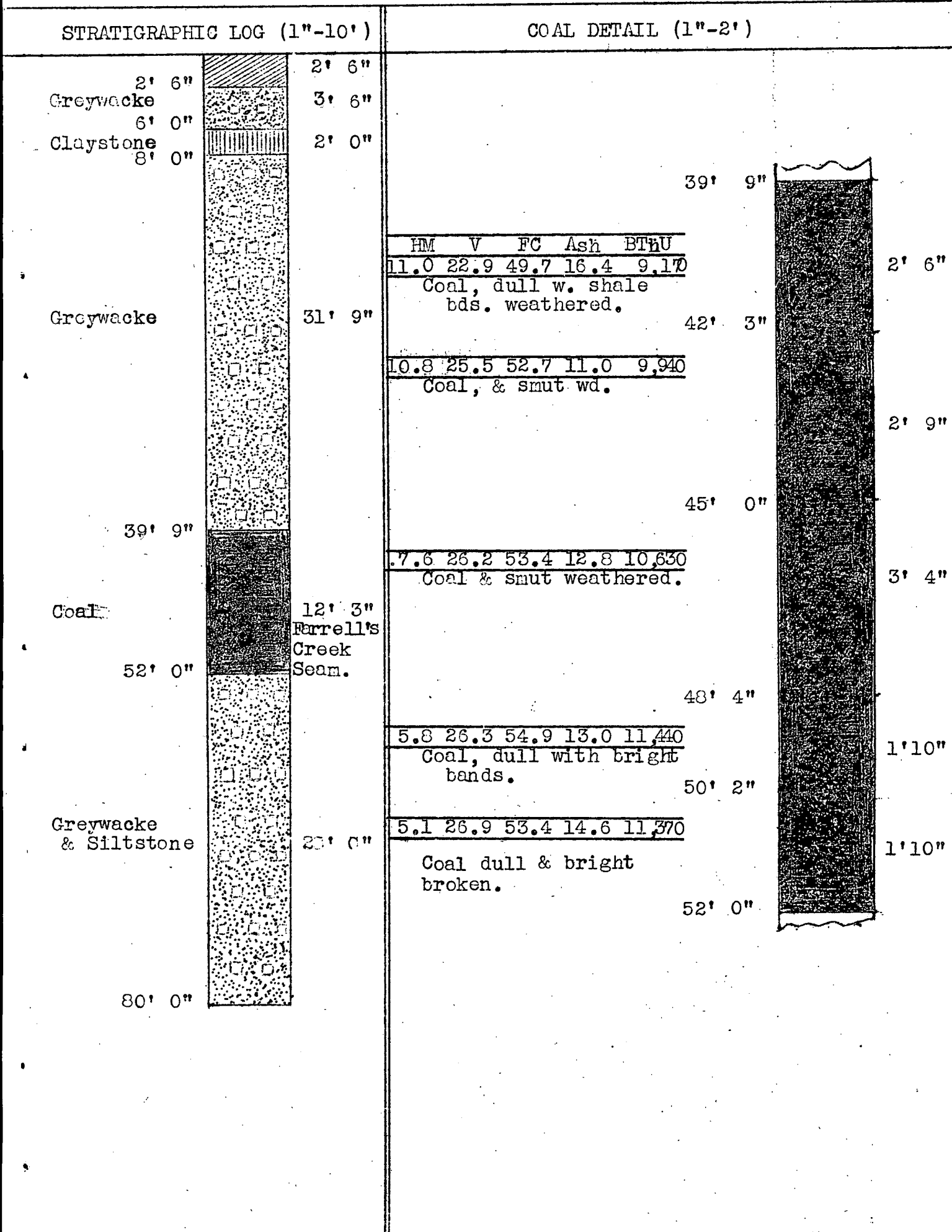
Area: Parnell's Creek. Hole No: BMR 68T Elevation: 490.3' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 21.1.53 Finished: 23.1.53 Depth: 92' 0"



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Pamell's Creek Hole No: BMR 69T Elevation: 490.6'
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 24.1.53 Finished: 30.1.53 Depth: 114' 0"



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No.: BMR 69T

Elevation: 490.6' ASL

Reference: BMR Map N14/110,

June 1953.

Datum: Standard

Begun: 24.1.53

Finished: 30.1.53

Depth: 114' 0"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')

	80' 0"		Cont.
Gw. & slst.	83' 7"		3' 7"
COAL	85' 3"		Seam R
Gw. & slst.		12' 9 1/2"	
COAL	98' 0 1/2"		1' 9 1/2"
Slst w. coal	99' 10 1/2"		Seam Q
COAL w. slst.	103' 7 1/2"		3' 0"
Gw. f. w. slst. & t. coal.		10' 4 1/2"	
	114' 0"		

	98' 0 1/2"		
			1' 9 1/2"
HM	V	FC	Ash
3.4	30.5	39.5	26.6
10,040			
Coal dull with slst. bands.			
	99' 10"		
	100' 5"		
			1' 6 1/2"
HM	V	FC	Ash
4.0	29.1	43.3	23.6
10,280			
Coal, dull with bright beds.			
	101' 11 1/2"		
	102' 2 1/2"		
			1' 5"
HM	V	FC	Ash
3.9	28.9	45.4	21.8
10,720			
Coal, dull to bright.			
	103' 7 1/2"		

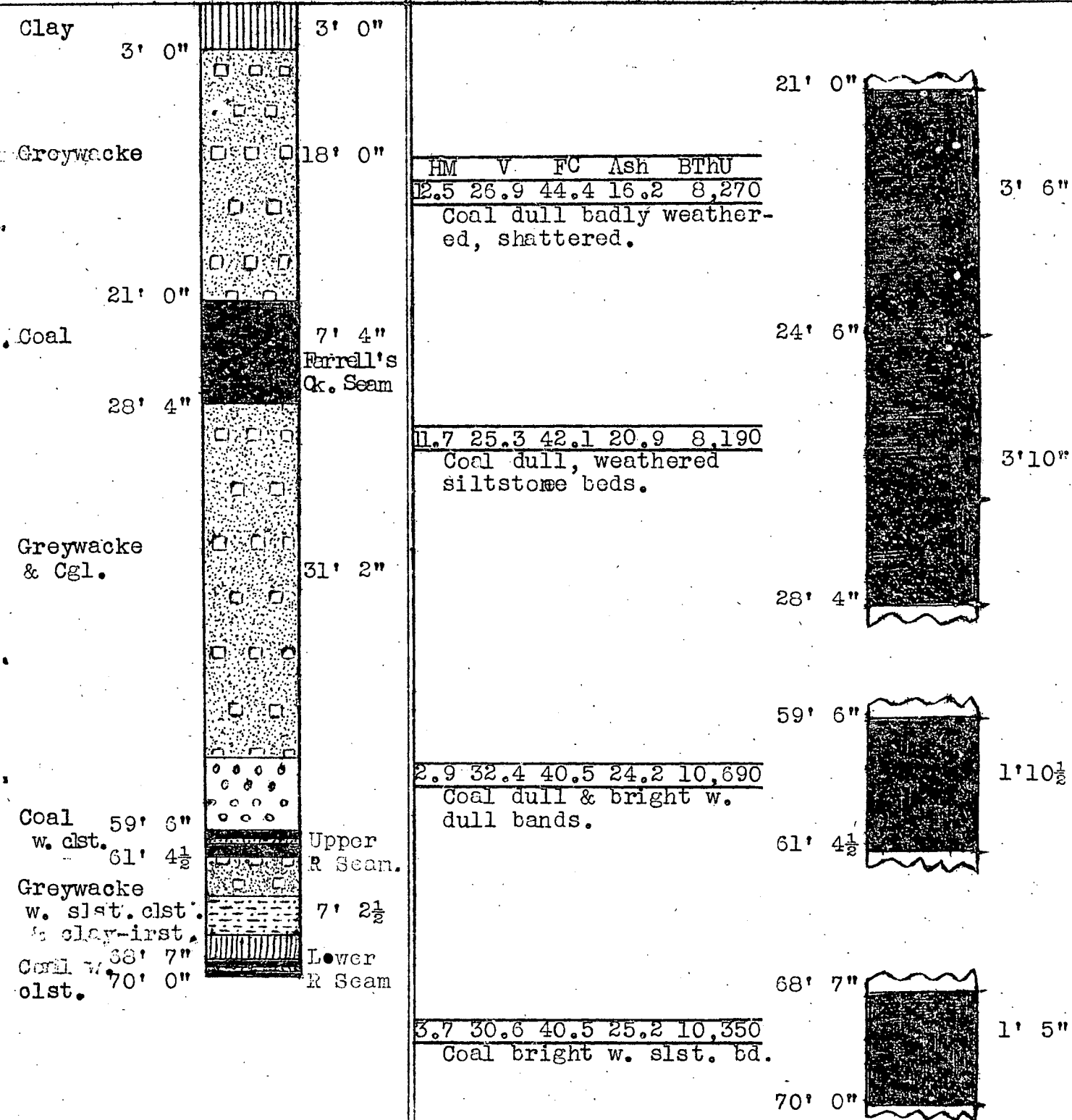
COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 70T Elevation: 573.0' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 28.1.53 Finished: 4.2.53 Depth: 101' 0"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



HM	V	FC	Ash	BThu
12.5	26.9	44.4	16.2	8,270

HM	V	FC	Ash	BThu
11.7	25.3	42.1	20.9	8,190

HM	V	FC	Ash	BThu
2.9	32.4	40.5	24.2	10,690

HM	V	FC	Ash	BThu
3.7	30.6	40.5	25.2	10,350

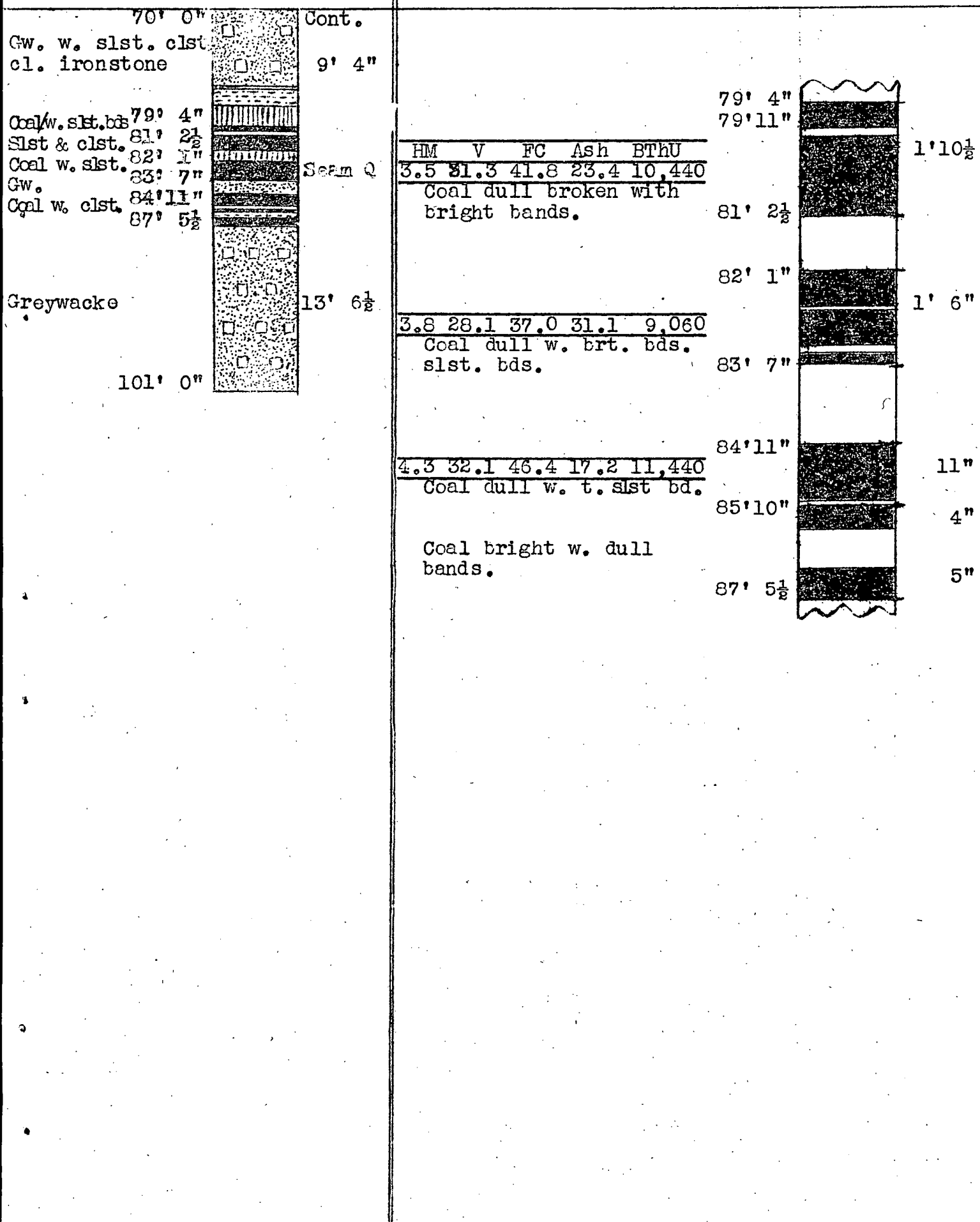
COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 70T Elevation: 573.0' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 28.1.53 Finished: 4.2.53 Depth: 101' 0"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



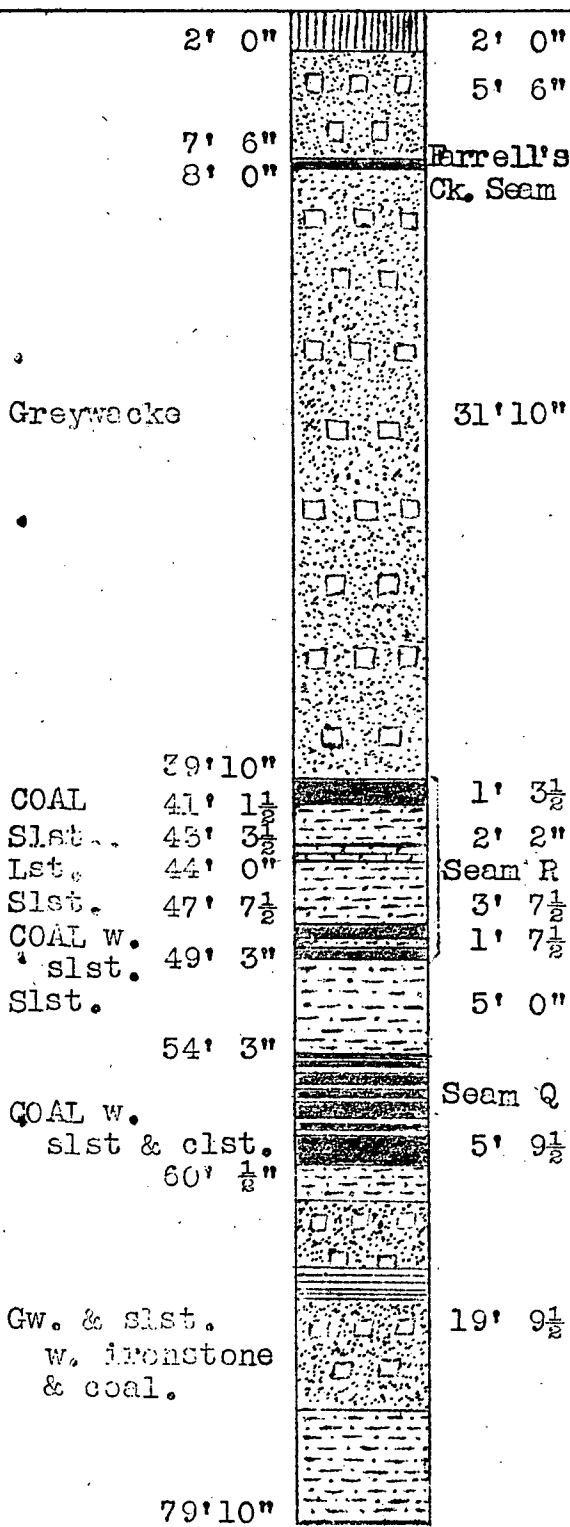
COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

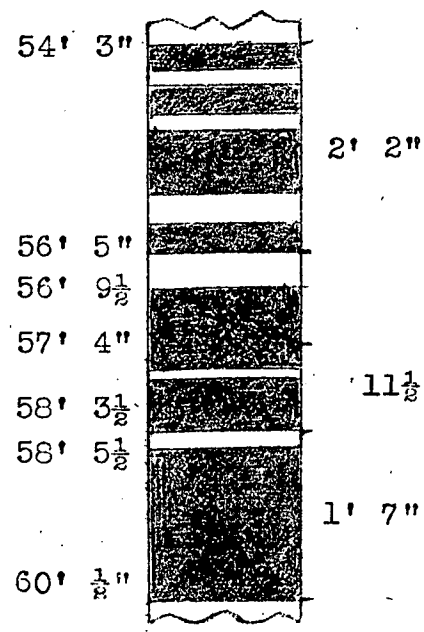
Area: Parnell's Creek Hole No: BMR 71T Elevation: 548.2' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 1.2.53 Finished: 6.2.53 Depth: 79'10"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



HM	V	FC	Ash	BThU
4.8	31.6	46.9	16.7	11,450
Coal, dull, broken bright bds. shaly.				
5.1	29.9	45.4	19.6	10,950
Coal, dull w. bright bands.				
4.9	29.3	47.1	18.7	11,240
Coal, dull w. thin slst. bands.				



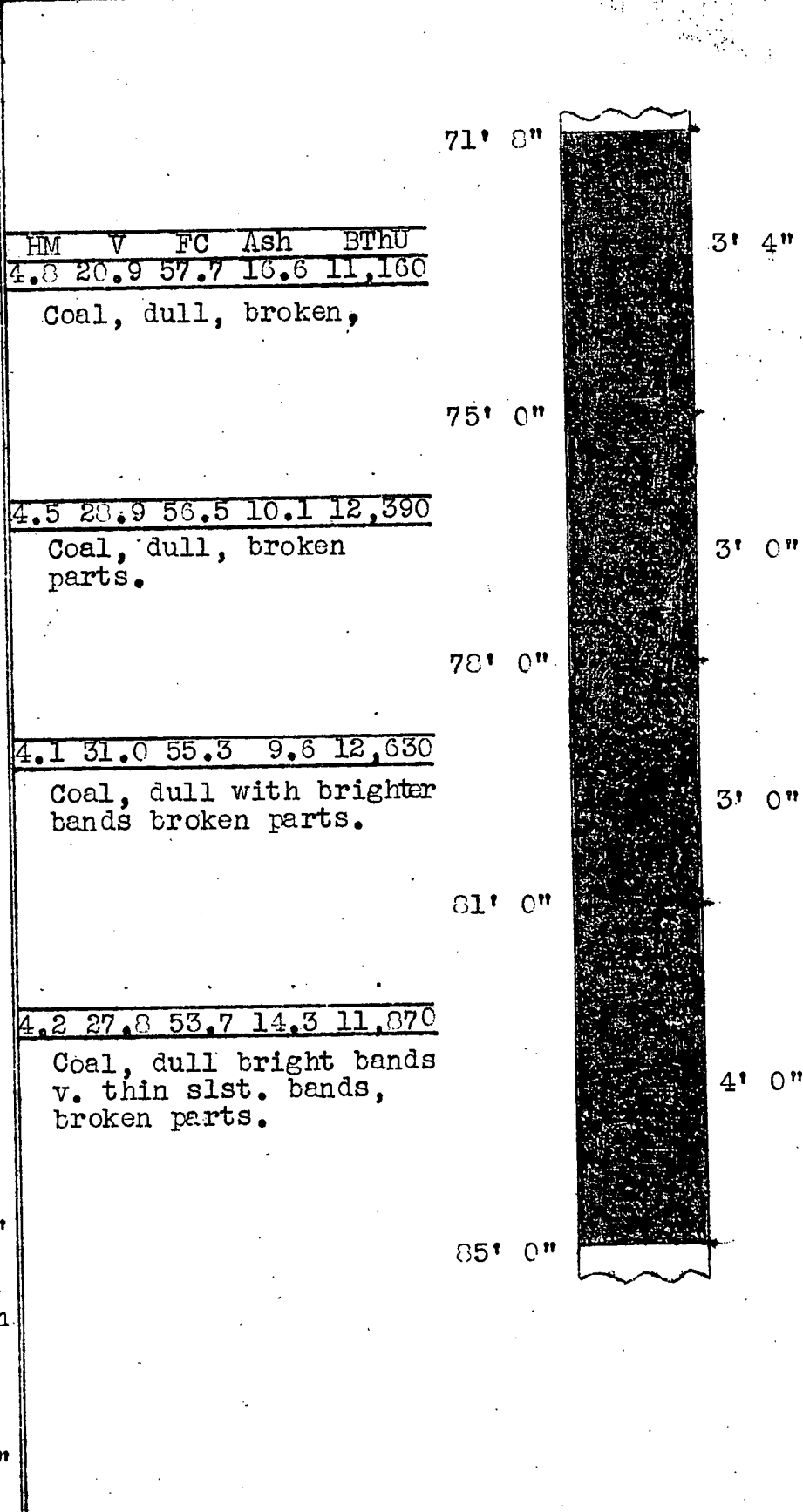
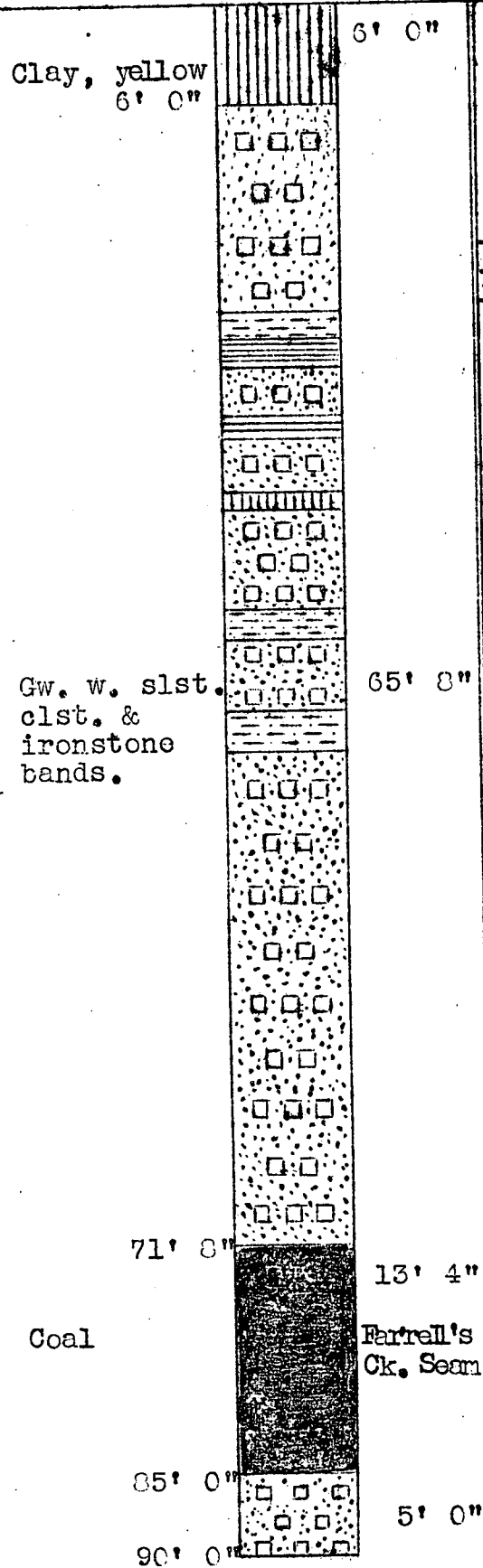
COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 72T Elevation: 529.8' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 5.2.53 Finished: 12.2.53 Depth: 139' 0"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 72T

Elevation: 529.8' ASL

Reference: BMR Map N14/110, June 1953.

Datum: Standard

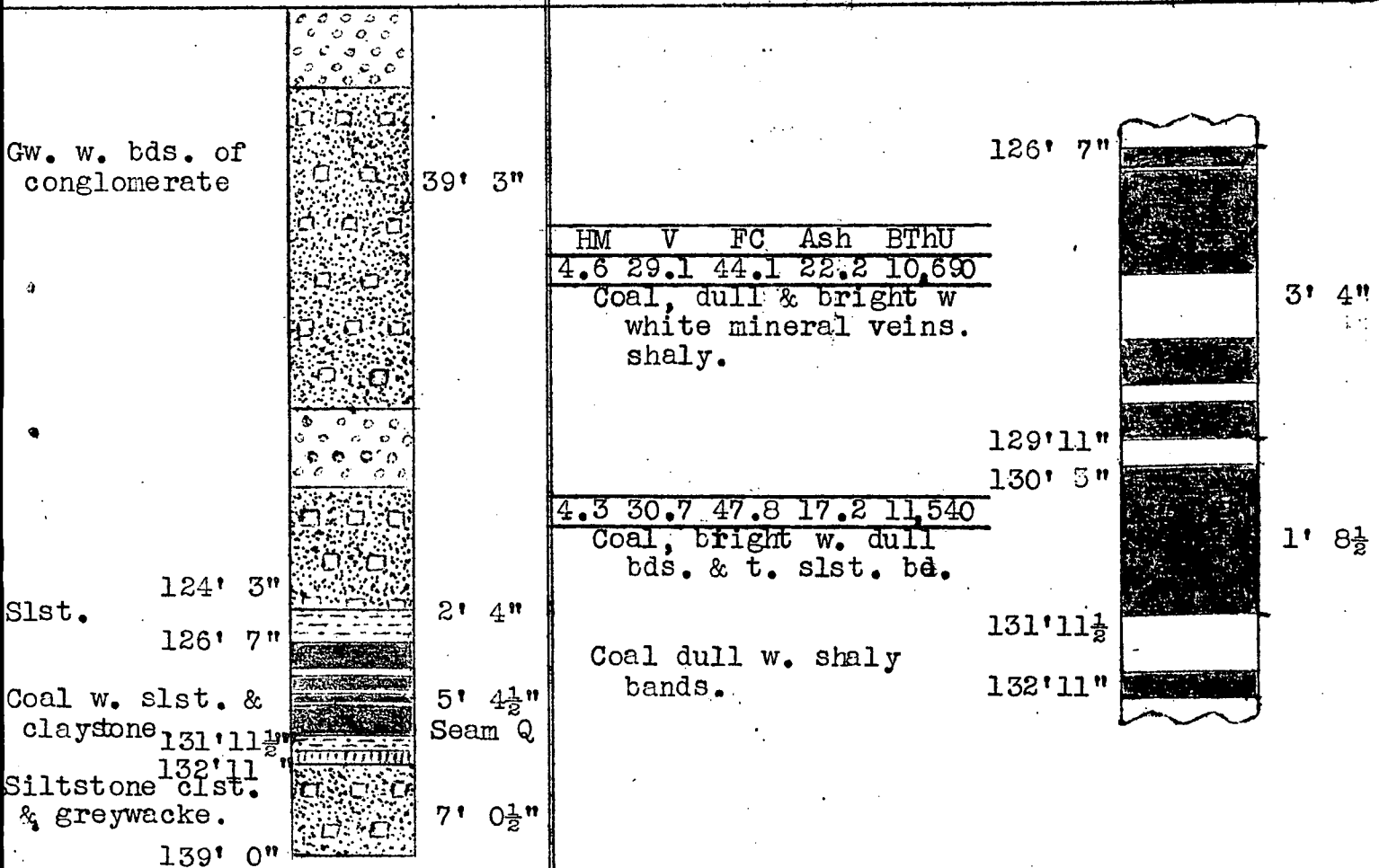
Begun: 5.2.53

Finished: 12.2.53

Depth: 139' 0"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 73T

Elevation: 542.3' ASL

Reference: BMR Map N14/110, June 1953.

Datum: Standard

Begun: 7.2.53

Finished: 12.2.53

Depth: 126' 0"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')

Clay 5' 0"

5' 0"

5' 0"

104' 9"

105' 4"

Mo	V	FC	sh	ThU
4.2	30.3	55.9	9.6	12,480
Coal, dull, broken.				

3' 3"

108' 0"

Mo	V	FC	sh	ThU
4.3	31.1	52.5	11.0	11,330
Coal, dull w. bright bds. broken parts.				

3' 3"

Greywacke

61' 9"

111' 3"

Mo	V	FC	sh	ThU
4.5	27.3	51.0	17.2	11,330
Coal, dull w. bright bds. broken parts.				

3' 3"

114' 6"

Coal 66' 9"

66' 10"

1"

STRATIGRAPHIC LOG (1"-10') Cont.

Coal

99' 10"

99' 10 1/4"

1/4"

Greywacke

33' 0"

104' 9"

Coal

Farrell's
Creek
Seam.

9' 9"

114' 6"

Greywacke & cgl.

11' 6"

99' 10"

126' 0"

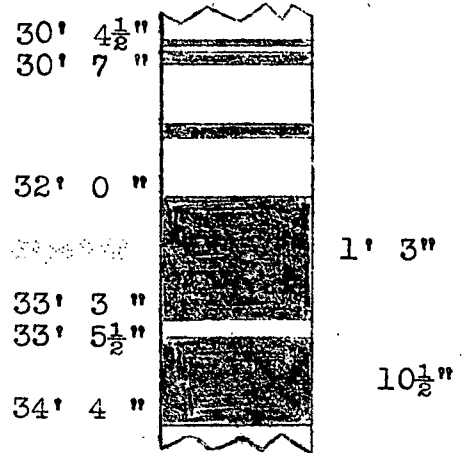
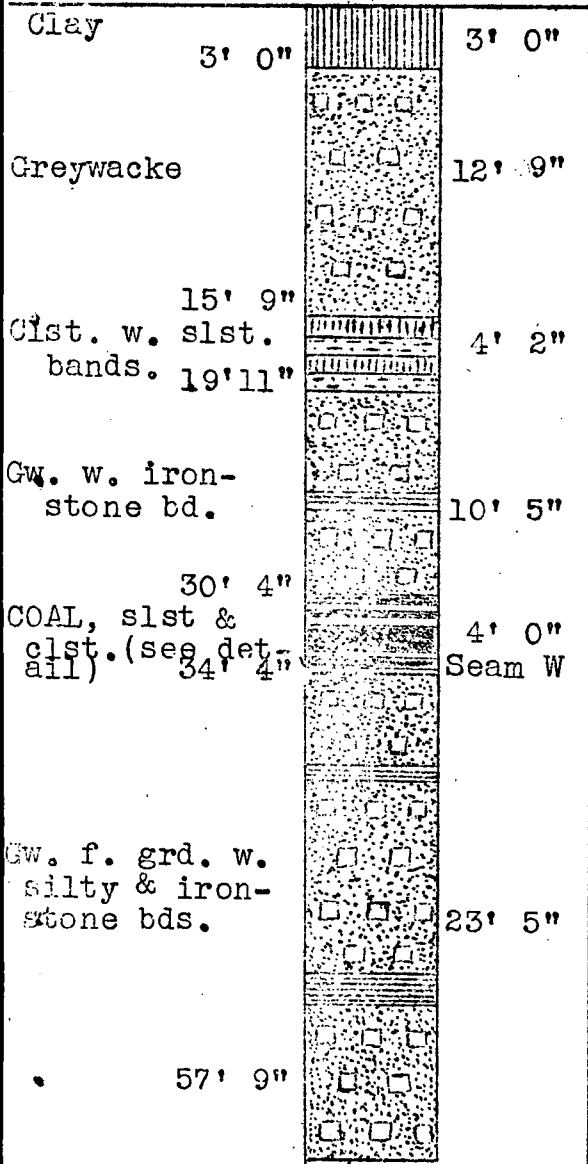
COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 74T Elevation: 575.7' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 13.2.53 Finished: 22.2.53 Depth: 120' 0"

STRATIGRAPHIC LOG (1"-10')

COAL DETAIL (1"-2')



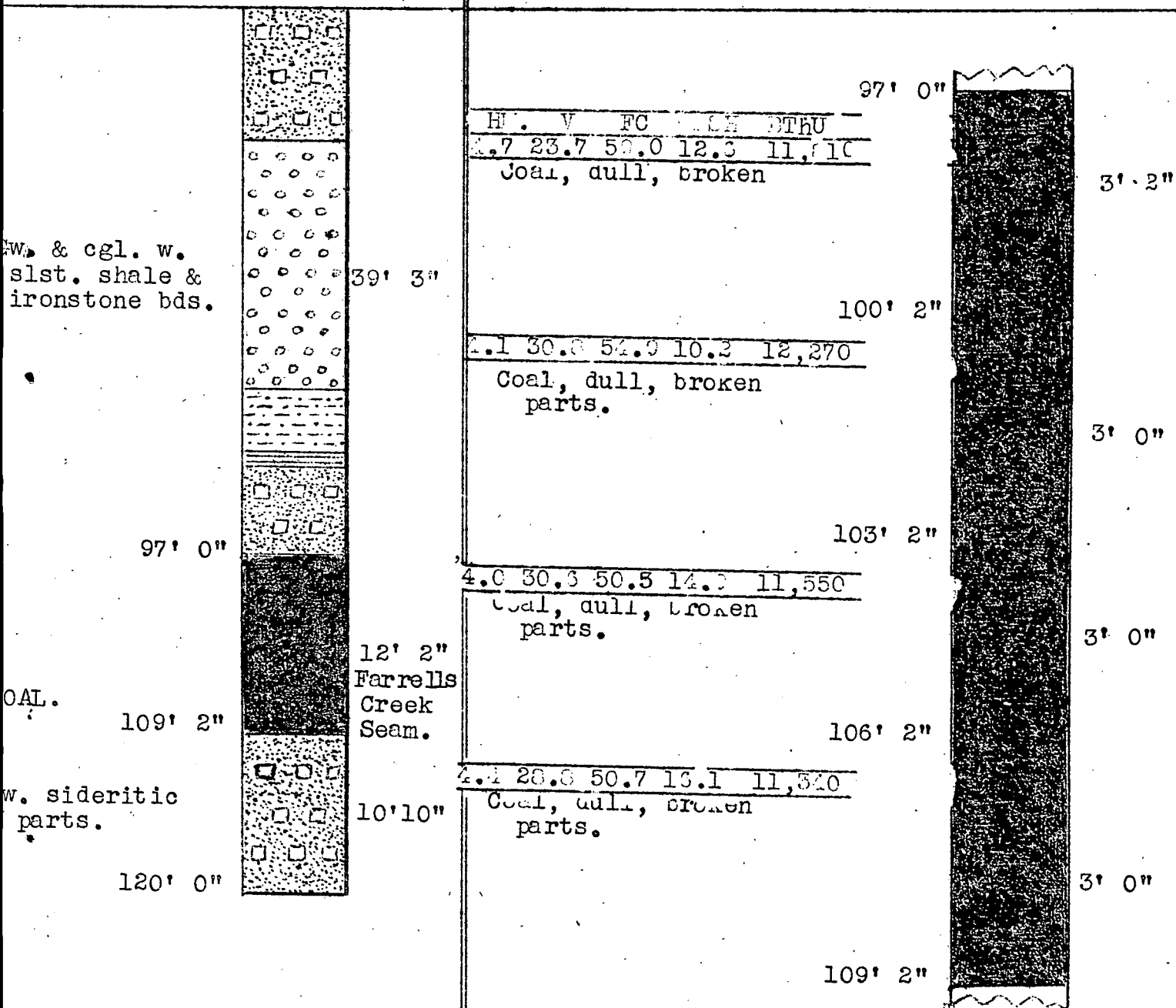
COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 74T Elevation: 575.7' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 13.2.53 Finished: 22.2.53 Depth: 120' 0"

STRATIGRAPHIC LOG (1"-10")

COAL DETAIL (1"-2')

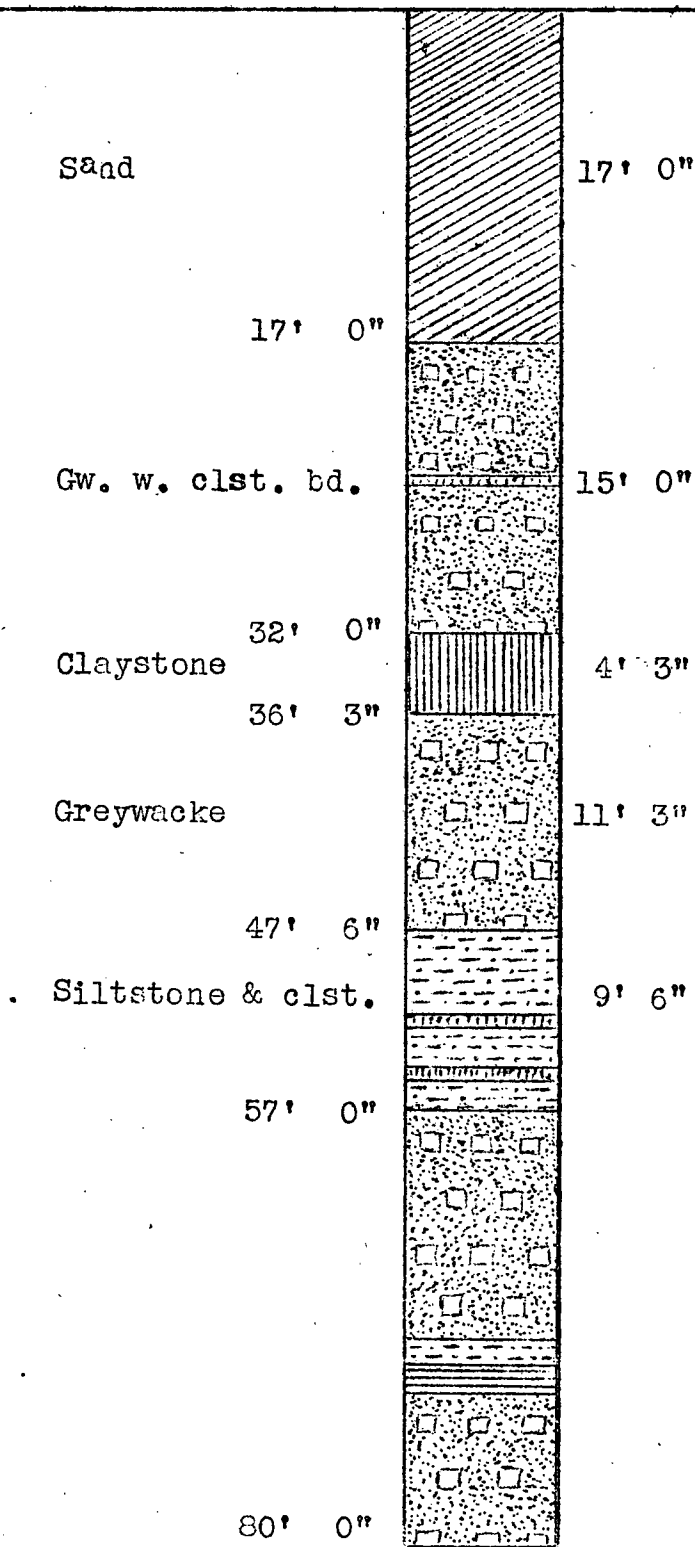


COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 75T Elevation: 407.3' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 13.2.53 Finished: 3.3.53 Depth: 135' 2"

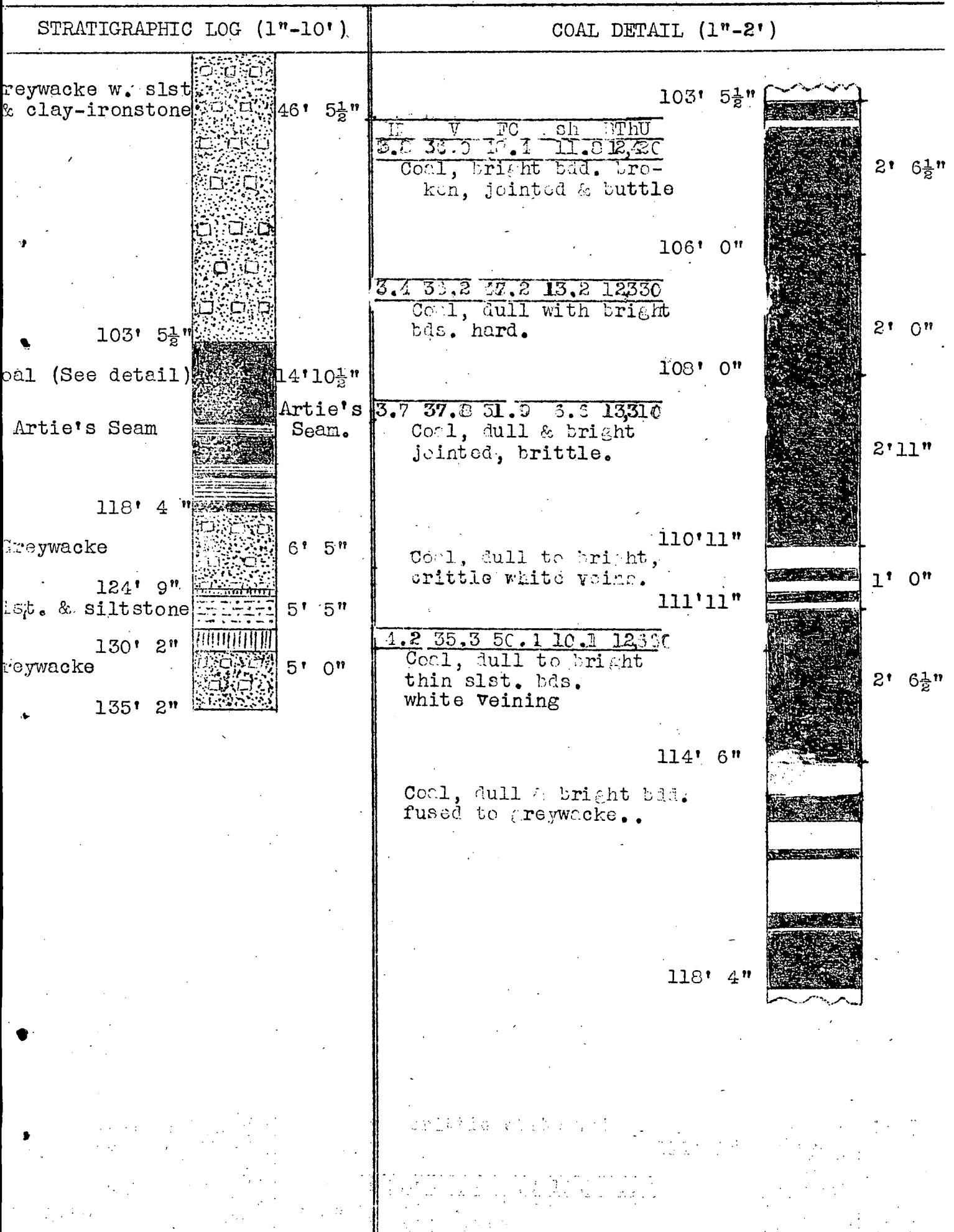
STRATIGRAPHIC LOG (1"-10')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 75T Elevation: 407.3' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 13.2.53 Finished: 3.3.53 Depth: 135' 2"



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 76T

Elevation: 391.6' ASL

Reference: BMR Map N14/110, June 1953.

Datum: Standard

Began: 24.2.53

Finished: 18.3.52

Depth: 305' 9"

STRATIGRAPHIC LOG (1"-10')

