

FOLDER 2

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 2.

Graphic logs of Scout Boreholes No's. 5-26
in the Central & Southern Prospects of the
Parnell's Creek Subarea.

COAL SEAMS INTERSECTED IN SCOUT BOREHOLES
Parnell's Creek Subarea (Central & Southern Prospects.)

SEAMS.		B O R E H O L E N U M B E R S																									
		5	6	7	8	9	10	11	12	13	14	16	17	18	19	20	21	22	23	24	25	26					
Seam X																											
Seam W																											
Seam V																											
Seam S																											
Farrell's Ck. Seam																											
Seam Q																											
Seam N																											
Seam L																											
Seam J																											
Seam G																											
Seam E																											
Seam EC																											
Seam C																											
Seam B																											
Seam A																											
U. Artie's Seam																											
M. Artie's Seam																											
Artie's Seam																											
U. Liddell Seam																											
M. Liddell Seam																											
L. Liddell Seam																											
Barrett's Seam																											
For Bore No's. 1 to 4 See BMR Records 76/1952 (Northern Prospect Report.)																											

For Bore No's. 1 to 4 See BMR Records
76/1952 (Northern Prospect Report.)

See Bore No. 13.

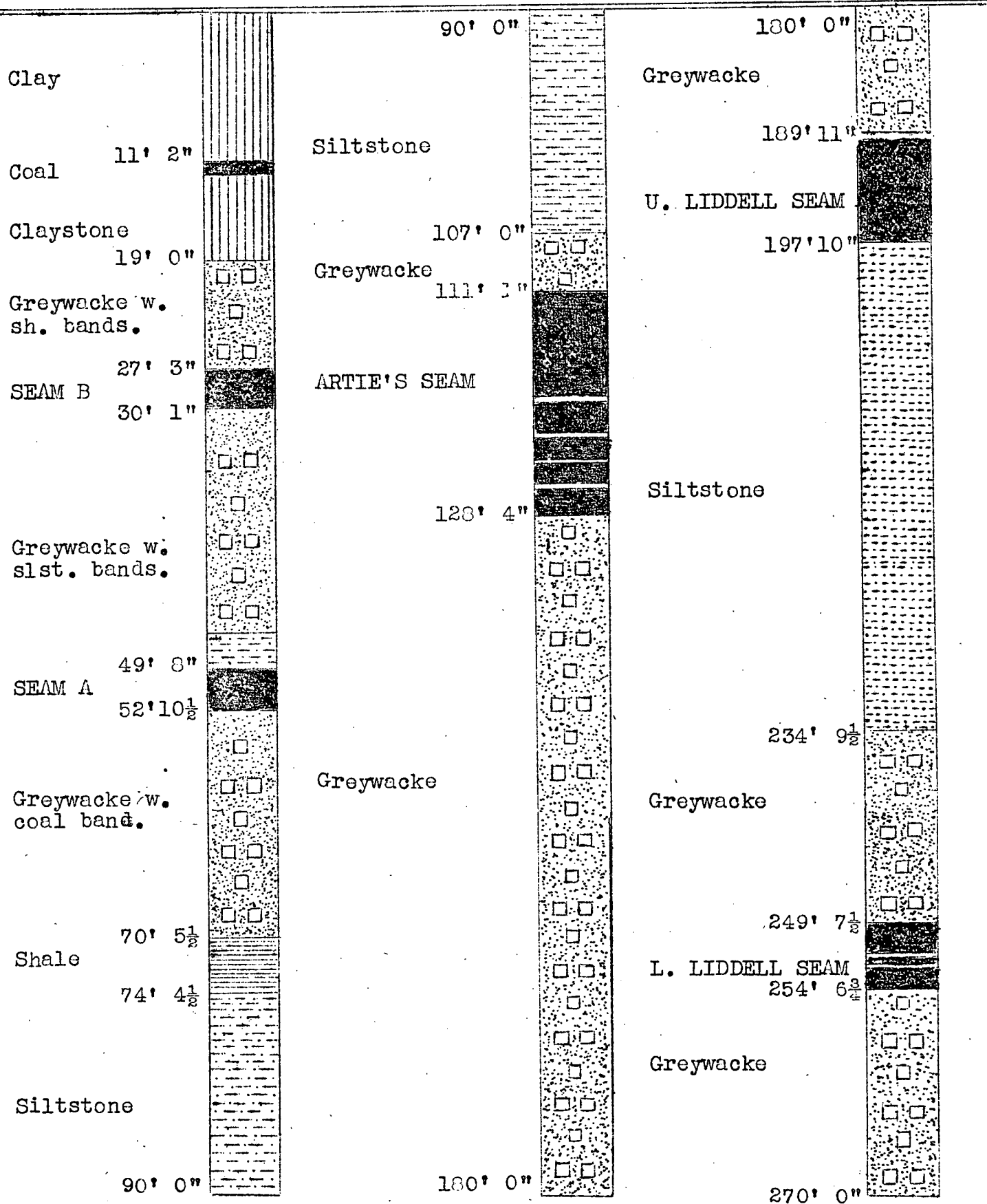
● Analysed Coal Sample
□ Not Analysed Coal.

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 5S Elevation: 509.0' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 29.5.52 Finished: 18.6.52 Depth: 500' 0"

STRATIGRAPHIC LOG (1"-10')



Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 5S

Elevation: 509.4' ASL

Reference: BMR Map M14/110, June 1953

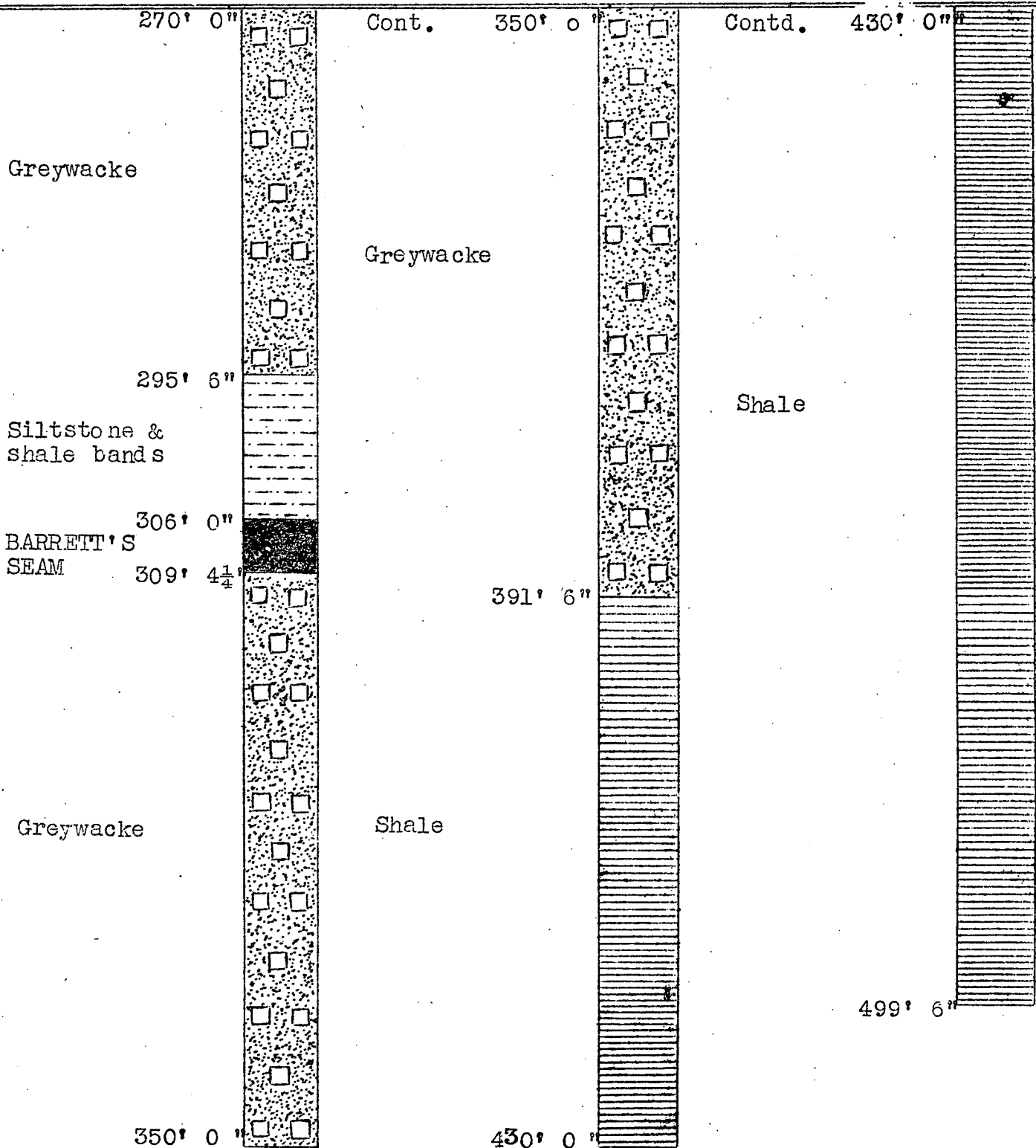
Datum: Standard

Bogun: 29.5.52

Finished: 18.6.52

Depth: 499' 6"

STRATIGRAPHIC LOG (1"-10')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 5S

Elevation: 509.0' ASL

Reference: BMR Map N14/110, June 1953.

Datum: Standard

Begun: 29.5.52

Finished: 18.6.52

Depth: 499' 6"

COAL DETAIL (1"-2")

HM	V	FC	Ash	BThU		
4.0	31.3	46.9	17.8	11,270	27' 3"	122' 8"
						No. 5
					Coal w. t. bd. dk. br. ? claystone.	123' 11"
3.4	33.3	43.3	20.0	10,990		124' 8 1/2"
						No. 6
					Coal dull & bright bdd. and splint.	126' 0"
					49' 8"	
					Coal dull and bright banded.	
						128' 4"
					Coal bright with dull bds. some shale, bkn.	189' 11"
3.7	32.8	53.9	9.6	12,760	52' 10 1/2"	No. 7
					Coal dull & bright banded, dant at bottom	
					111' 1"	
					111' 6"	
3.8	36.3	51.9	8.0	13,075		192' 2"
					Coal dull brt. bdd. v. bkn. w. some carb. splint.	No. 8
					As above.	
					113' 6"	
3.3	36.5	47.3	12.9	12,200	No. 2	194' 6"
					Splint coal.	No. 9
					Coal dull & bright banded. splint bkn. at bottom, pyrite.	
					116' 4"	
3.9	32.6	55.6	7.9	12,900	No. 3	197' 10"
					As above.	
					119' 2"	
					119' 6"	
4.0	34.1	47.6	14.3	11,910	No. 4	
					As above.	
					122' 0"	

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 5S

Elevation: 509.0' ASL

Reference: BMR Map N14/110, June 1953.

Datum: Standard

Begun: 29.5.52

Finished: 18.6.52

Depth: 499' 6"

COAL DETAIL (1"-2")

Coal dull and
bright banded
cleated.

249' 7 $\frac{1}{2}$

254' 6 $\frac{3}{4}$

Splint coal with
occasional thin
bright bands.

306' 0"

309' 4 $\frac{1}{2}$

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 6S

Elevation: 560.2' ASL

Reference: BMR Map N14/110, June 1953.

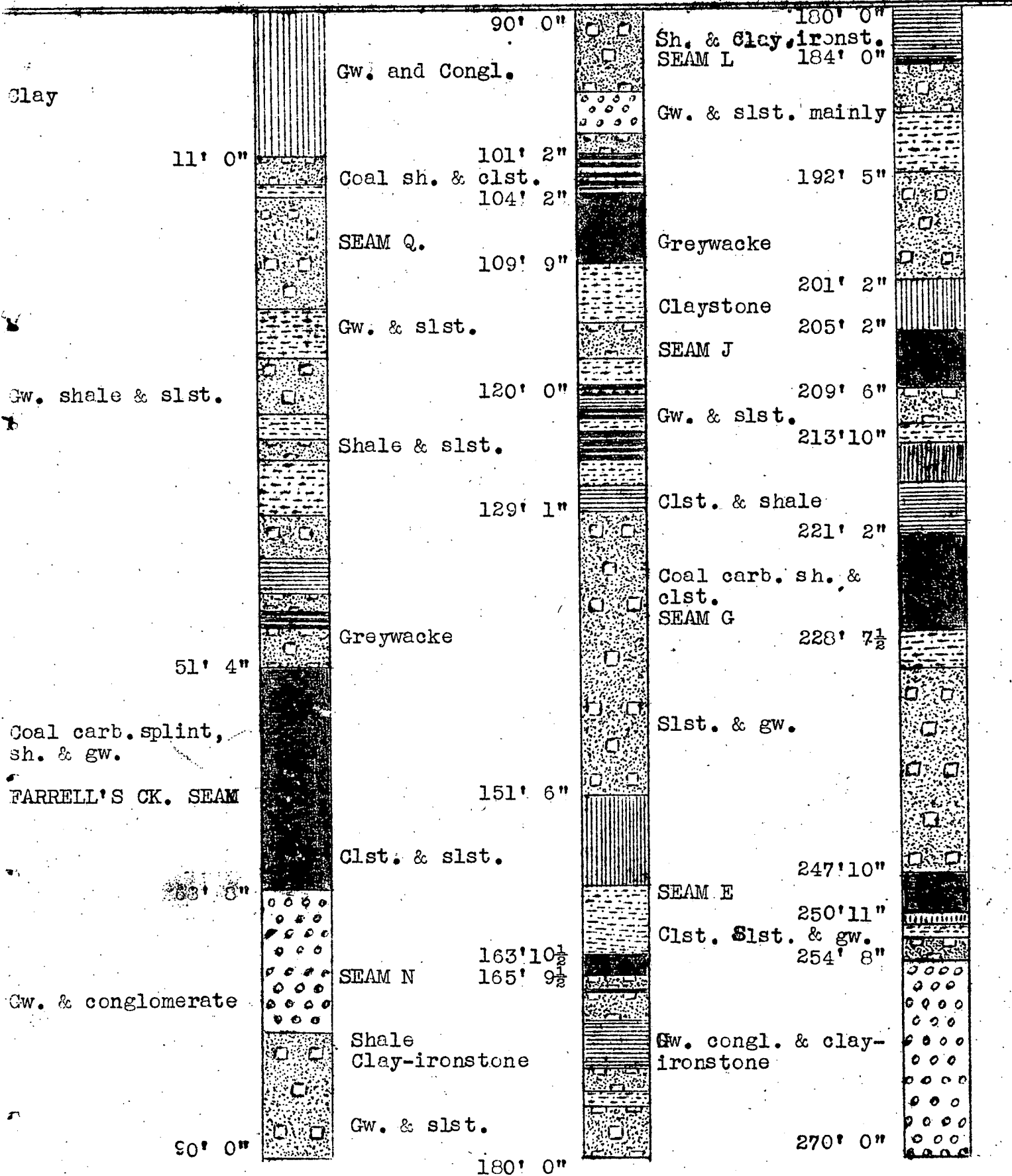
Datum: Standard

Begun: 19.6.52

Finished: 30.7.52

Depth: 678' 0"

STRATIGRAPHIC LOG (1"-10')



Bureau of Mineral Resources, Geology and Geophysics

Elevation: 560.2' ASL

Datum: Standard

Depth: 678' 0"

Left Column	Center Column	Right Column
Gw. congl. & cl. irnst. 270' 0"	cont. 360' 0"	450' 1"
Slst. shale 274' 0"	Gw. congl. & clay irnst. 368' 3"	
SEAM C 275' 11"	Clst. & sh. 369' 9 1/2"	Mainly gw.
278' 9"	Coal dant, splint w. sh. etc. bds.	
	ARTIE'S SEAM.	
Sh. gw. clst. slst. & clay-ironstone	387' 0 1/2"	475' 1 1/2"
	Clst. & shale	M. LIDDELL SEAM.
	394' 0 1/2"	478' 10 1/2"
306' 2"		
		Gw. slst. & clst.
Gw. conglomerate & clay-ironstone	Main gw.	
		504' 10 1/2"
		L. LIDDELL SEAM.
		510' 10"
		Greywacke
		526' 0"
	440' 5 1/2"	
	U. LIDDELL SEAM.	Gw. slst. & clst.
360' 0"	450' 1"	540' 0"

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 6S

Elevation: 560.2' ASL

Reference: BMR Map N14-110;

June 1953.

Datum: Standard

Begun: 19. .52

Finished: 30.7.52

Depth: 678' 0"

STRATIGRAPHIC LOG (1"-10')

540' 0"

Cont.

631' 0"

Mainly Greywacke.

Gw. slst. & clst.

559' 6"

651' 3 1/2"

BARRETT'S SEAM

Slst. & claystone

568' 4"

666' 0"

Claystone & slst.

678' 0"

Mainly greywacke

631' 0"

Bureau of Mineral Resources, Geology and Geophysics

Elevation: 560.2' ASL

Datum: Standard

Depth: 673' 0"

HM	V	FC	Ash	BThU					
4.0	13.9	20.0	62.1	-	-	51' 4"	No. 1	Coal splint bk. w. t. bds. of carb. shale.	104' 2"
4.4	23.4	52.1	20.1	10,580		52' 5 1/2"	No. 2	Coal dull shaly irregularly lamd.	104' 4 1/2"
4.6	23.7	55.4	16.3	11,150		52' 8"	No. 3	Coal, mainly dull & lamd. (shaly) but w. t. brt. lam. pyr. v. s. dant.	No. 8
4.4	28.7	58.4	8.5	12,500		55' 10"	No. 4	Coal d. pyr. w. occas. & bright bands.	105' 5 1/4"
4.4	30.8	54.1	10.7	12,110		59' 6"	No. 5	Coal dull and bright pyrites.	106' 2"
4.0	28.9	54.2	12.9	11,940		61' 9"	No. 6	Coal dull and bright pyrite.	109' 8 3/4"
3.9	30.2	50.9	15.0	11,710		64' 4"	No. 7	Coal dull and bright banded.	163' 10 1/2"
						66' 5 1/4"	No. 8		165' 9 1/2"
						66' 10 3/4"	No. 9		205' 2"
							No. 10		206' 0 1/2"
							No. 11		208' 5"
							No. 12		209' 6"
							No. 13		221' 2"
							No. 14		222' 10 1/4"
							No. 15		223' 11 1/4"
							No. 16		224' 3 1/2"
							No. 17		226' 0 1/2"

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 6S

Elevation: 560.2' ASL

Reference: BMR Map N14/110, June 1953.

Datum: Standard

Begun: 19.6.52

Finished: 30.7.52

Depth: 678' 0"

COAL DETAIL (1"-2I)

Cont.	226' 6"	HM	V	FC	Ash	BthU	378' 9"
		3.0	35.6	49.6	11.8	12,730	No.16
HM V FC Ash BthU							
3.7 32.0 48.2 16.1 11,710	No.12						
Coal d. & brt. bdd. bk. shale carb. pyrite.							380' 2"
	228' 7½"						
Coal mainly dull	247' 10"						
Coal bdd. w. ¾" carb. sh. at top.	248' 6"						
clay-ironstone	248' 7½"						
							Not sampled
	249' 8"						
Coal dull.							
	250' 11"						384' 6"
		3.3	36.9	50.7	9.1	13,000	No.17
	275' 11"						
							Coal mainly brt. shy. silty pyrite.
							385' 10½"
Coal banded							Dant s. pow. coal w. bds. bright coal.
							387' 0½"
	278' 6"						440' 5½"
Dant & carb. shale	278' 9"						
		3.0	32.6	54.4	10.0	12,800	No.18
	369' 9½"						
							Coal d. w. brt. bds. lam.
							442' 4"
2.9 34.4 48.2 14.5 12,390	No.13						442' 9½"
Coal dull & bright bdd. carb. shale pow. br. dant.							
	371' 10½"						
		3.2	32.1	46.7	18.0	11,550	No.19
	372' 8¾"						
							Dant w. brt. bds. coal splint carbonaceous.
							446' 1"
2.4 30.4 45.6 13.6 12,600	No.14						
Coal dull w. bright bds. carb. shale, lam.							
	375' 3"						
	375' 3¾"						
							Dant mainly with bds. splint coal bdd. and shaly dk. brown carb.
		3.1	31.6	46.4	18.9	11,540	No.20
3.1 33.3 53.7 9.9 13,000	No.15						
Coal mainly dull with v. t. bands bright coal.							449' 1"
							Dant carb. shale
							Coal dull & bright bdd.
							449' 7"
							w. v. t. bd. clay at bot
	378' 6"						450' 1"

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 6S

Elevation: 560.2' ASL

Reference: BMR Map N14/110, June 1953.

Datum: Standard

Begun: 19.6.52

Finished: 30.7.52

Depth: 678' 0"

COAL DETAIL (1"-2')

Coal mainly dull with
thin bright bands
lam. shaly.

Not sampled.

475' 1½"

Cont.

478' 10½"

Coal mainly dull splint
with bright bands very
soft powdery mainly
broken.

Not sampled due to poor
recovery poor quality
of coal recorded.

559' 6"

HM	V	FC	Ash	BThU
----	---	----	-----	------

2.6	30.4	42.8	24.2	10,730
-----	------	------	------	--------

Coal brt. v. powdery w.
dant & shale.

504' 10½"

No.21

506' 1½"

563' 4"

507' 10"

2.6	32.7	46.8	17.9	11,640
-----	------	------	------	--------

No.22

Coal shaly to lam. carb-
onaceous shale.

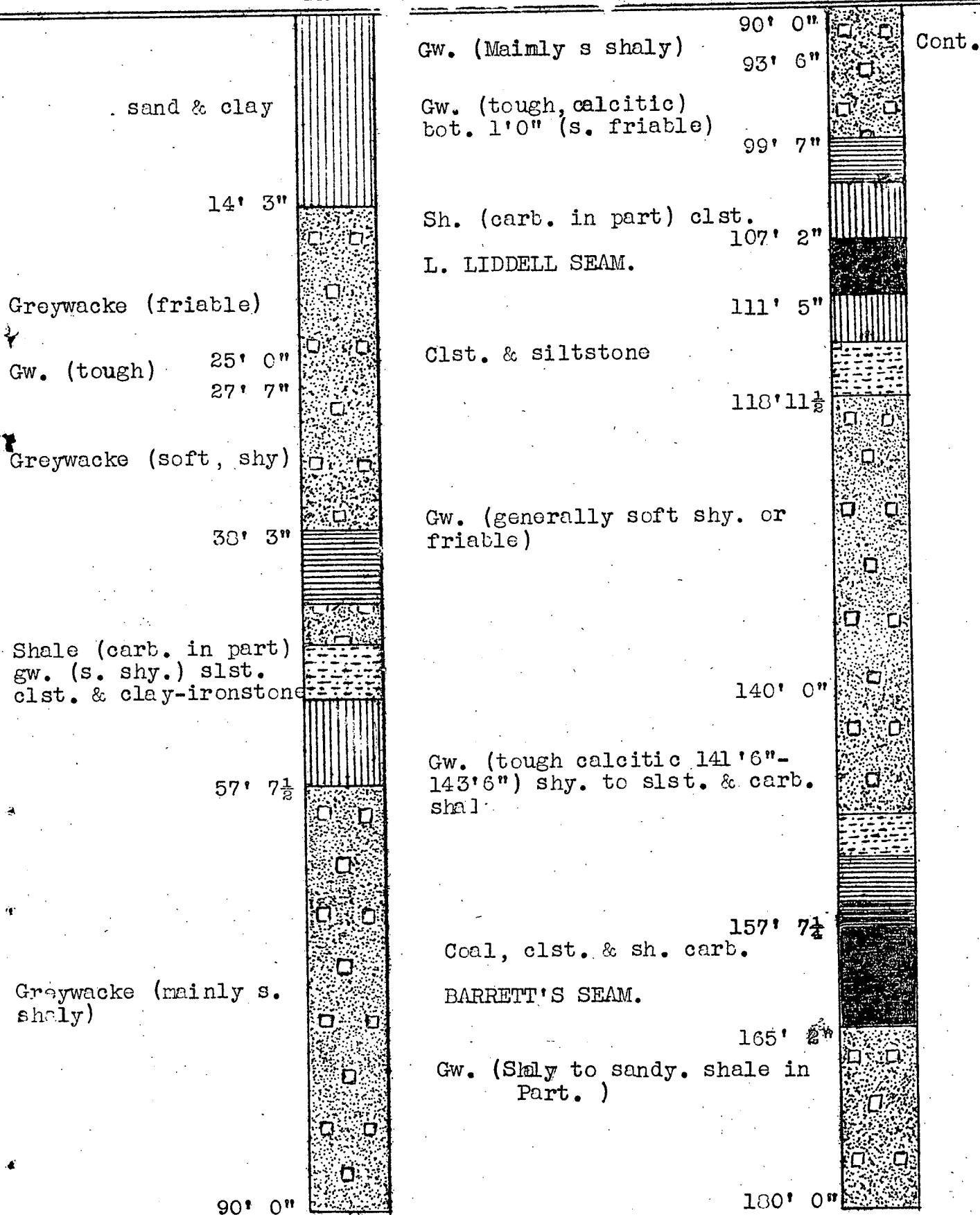
510' 0"

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 7S Elevation: 430.0' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 30.6.52 Finished: 21.7.52 Depth: 302' 1"

STRATIGRAPHIC LOG (1"-10')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 7S

Elevation: 430.0' ASL

Reference: BMR Map N14/110, June 1953.

Datum: Standard

Begun: 30.6.52

Finished: 21.7.52

Depth: 302' 1"

STRATIGRAPHIC LOG (1"-10')

130' 0"

Cont.

270' 0"

Cont.

Claystone

280' 0"

Claystone & shale

Gw. (shaly to sandy
shale in part)

302' 1"

234' 3 $\frac{1}{2}$ "

Mainly slst. & shale

263' 11"

Claystone.

270' 0"

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 7S

Elevation: 430.0' ASL

Reference: BMR map N14/110, June 1953.

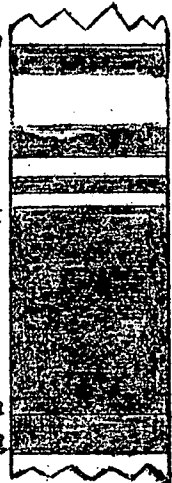
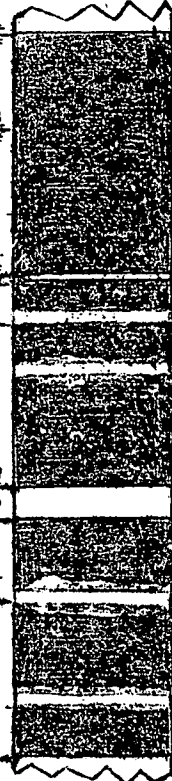
Datum: Standard

Begun: 30.6.52

Finished: 21.7.52

Depth: 302' 1"

COAL DETAIL (1"-2')

					107' 2"		
Coal dull and bright banded.							
					108' 10 1/4"		2' 1 3/4"
HM	V	FC	Ash	BThU	No. 1		
3.2	35.2	51.6	10.0	12,970			
Coal dull & brt. bdd. becoming broken & splint							
Mainly brt. coal with bands of shale					111' 0"		
					111' 5"		
					157' 7 1/2"		11 1/2"
2.7	37.7	49.9	9.7	13,140	No. 2		
Coal splint w. v. finely disse. pyr. w. clst.					158' 6 3/4"		
2.8	38.7	52.6	5.9	13,700	No. 3		1' 6 1/2"
Coal bright.					160' 1 1/4"		
					160' 2"		
2.8	33.0	46.8	17.4	11,800	No. 4		2' 2"
Coal dull & bright bdd. w. clst. cleat & pyr.							
					162' 4"		
					162' 8"		
2.6	37.4	51.0	9.0	13,260	No. 5		9 1/2"
Coal dull & brt. bdd. shaly to lam. clst.					163' 5 1/2"		
					163' 7"		
4.1	33.3	50.2	12.4	12,350	No. 6.		1' 7"
Coal d. & brt. bdd. shy. t. lam. claystone.							
					165' 2"		

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 8S

Elevation: 534.4' ASL

Reference: BMR Map N14/110, June 1953.

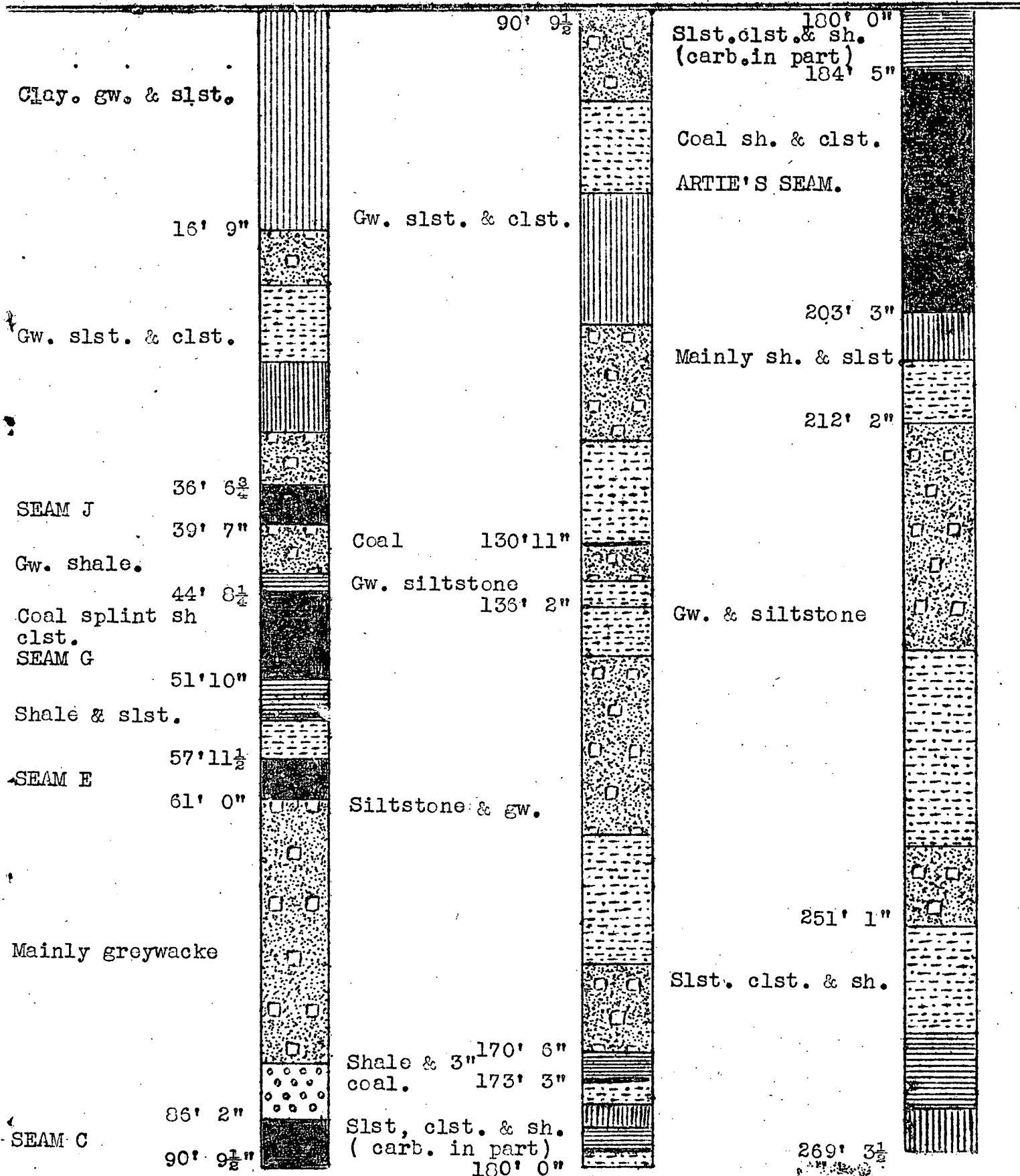
Datum: Standard

Begun: 22.7.52

Finished: 28.8.52

Depth: 500' 0"

STRATIGRAPHIC LOG (1"-10')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 8S

Elevation: 534.4' ASL

Reference: BMR Map N14/110, June 1953.

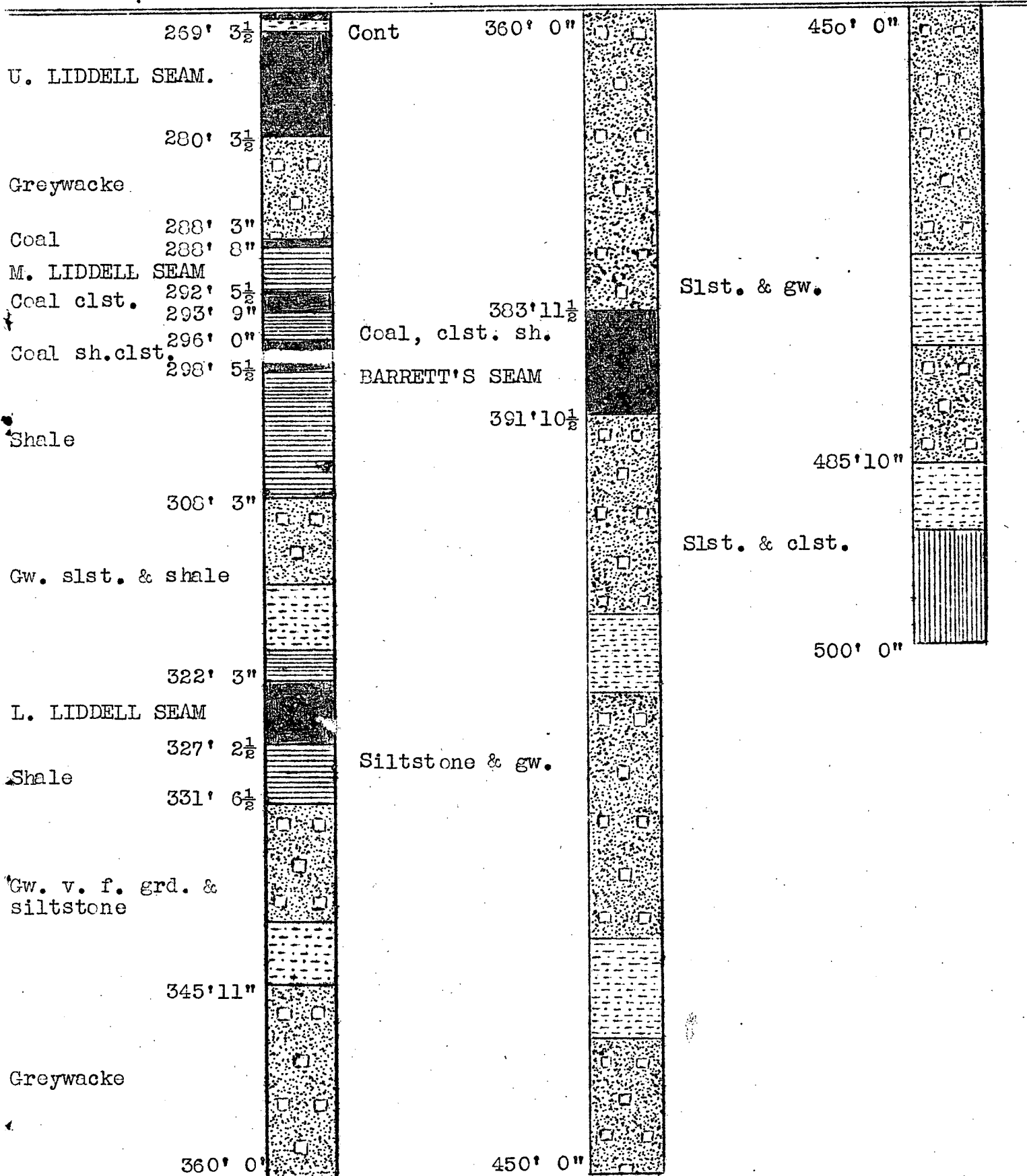
Datum: Standard

Begun: 22.7.52

Finished: 28.8.52

Depth: 500' 0"

STRATIGRAPHIC LOG (1"-10')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 8S

Elevation: 534.4' ASL

Reference: BMR Map N14/110, June 1953.

Datum: Standard

Begun: 22.7.52

Finished: 28.8.52

Depth: 500' 0"

COAL DETAIL (1"-2')

Coal dull & brt. bdd w. t. sh. bds. clst. carb. material.	36' 6 $\frac{3}{4}$ "	Coal dull & brt. bdd. carb. splint.	184' 5"
	36' 9 $\frac{3}{4}$ "		185' 4 $\frac{3}{4}$ "
	37' 11 $\frac{3}{4}$ "		No.10
HM V FC Ash BTNU	No. 1	HM V FC Ash BRNU	186' 7 $\frac{1}{2}$ "
3.6 31.9 46.6 17.9 11,450		3.3 33.7 43.4 19.6 11,390	186' 10 $\frac{3}{4}$ "
Coal dull & brt. bdd. w. carb. sh bds.		Coal dull & brt. bdd.	187' 3 $\frac{1}{2}$ "
	39' 7"	Coal splint w. brt. lam. sh. gy. s. cly. at bottom.	187' 7 $\frac{3}{4}$ "
	44' 8 $\frac{1}{2}$ "		188' 4 $\frac{1}{2}$ "
4.0 28.9 37.4 29.7 9,510	No. 2		
Coal dull & brt. bdd. mainly splint.	45' 5"		
	46' 0"	3.0 35.1 49.3 12.6 12,570	No.11
3.8 30.7 44.7 20.8 10,890	No. 3	Coal splint then bdd. w. occas. d. lam shy. band.	191' 0"
Coal d. & brt. bdd. w.t. bk. carb. sh. bd. near bot well dev. cleat.	47' 8"		
3.7 28.3 39.3 28.7 9,790	No. 4	3.7 32.0 45.2 19.1 11,420	No.12
Coal dull & bright bdd. carbonaceous, shale.	49' 3"	Coal dull & brt. bdd. w. clst. shale dark grey, clayey.	192' 11"
	49' 9 $\frac{1}{2}$ "		193' 0"
			193' 8"
3.7 34.1 48.2 14.0 12,000	No. 5		193' 10 $\frac{1}{4}$ "
Coal mainly d. & bright w. r. t. carb. sh. bds. with cleat.	51' 10"	4.2 29.7 44.0 22.1 10,830	No.13
	57' 11 $\frac{1}{2}$ "	Coal dull & brt. bdd. lam. shly & cold grains	196' 0"
3.4 32.3 48.1 16.2 11,900			196' 5 $\frac{1}{2}$ "
Coal d. & brt. bdd. splint w. cleat & clst. br. silty hard.	53' 11"		No.14
	5" 0 $\frac{1}{4}$ "	4.1 32.2 45.8 17.9 11,450	197' 4"
3.7 31.6 45.2 19.5 11,280	No. 7	Coal w. R. thin lens brown clst. pyrite.	197' 5"
Coal dull & bright bdd. w. cleat w. R carb. sh.	61' 0"		198' 4"
	86' 2"		198' 9 $\frac{1}{2}$ "
3.7 33.7 51.4 11.2 12,590	No. 8	3.8 33.1 45.9 17.2 11,610	No.15
Coal dull & bright bdd. w. t. bds. bk. carb. sh near bottom.	88' 6"	Coal banded, lam. in part with rare brown silty clst. lens.	201' 6"
4.4 36.3 50.9 8.4 12,900	No. 9	Coal mainly bright powdery.	202' 0 $\frac{1}{4}$ "
Coal dull & bright bdd. w. well dev. cleat powd. in part w. some dant near bottom.	90' 9 $\frac{1}{2}$ "		203' 3"

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR.8s

Elevation: 534.4' ASL

Reference: BMR Map N14/110, June 1953.

Datum: Standard

Begun: 22.7.52

Finished: 28.8.52

Depth: 500' 0"

COAL DETAIL (1"-2')

HM	V	FC	Ash	BThU			
3.6	34.6	49.8	12.0	12,570	No.16	269' 3 1/2"	
Coal dull splint w. brt. lam to dull & brt bdd. Cleated over bot.						270' 3 1/2"	322' 3"
							322' 6 3/4"
						272' 1"	
2.4	32.0	55.0	10.6	12,970	No.17		324' 6 1/2"
Coal bdd. mainly brt. cleated & broken.						274' 0"	No.22
2.8	37.7	53.8	5.7	13,670	No.18		
Coal dull & brt. bdd. to lamd. in part.						275' 9"	327' 2 1/2"
2.9	37.5	53.4	6.2	13,580	No.19		
Coal dull & brt. lamd. bkn. w. s. sdy clsh. bds						277' 6"	333' 11 1/2"
						278' 2 1/2"	No.23
						278' 10"	
2.8	38.0	50.7	8.5	13,210	No.20	279' 4"	
Coal dull & brt. bdd. to lam. in part pyrt.						280' 3 1/2"	336' 5 1/2"
							No.24
							337' 11 1/2"
2.6	30.6	41.9	24.6	10,650	No.21	282' 5 1/2"	No.25
Coal dull							
Coal, dull						283' 5"	339' 3 1/4"
							339' 7"
							No.26
							390' 8 3/4"
							390' 9 1/2"
						286' 0"	No.27
							391' 10 1/2"
Coal dull mainly cly. broken						287' 7"	
Coal dull & bright lam.						288' 5 1/2"	

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 9S

Elevation: 507.0' ASL

Reference: BMR Map N14/110, June 1953.

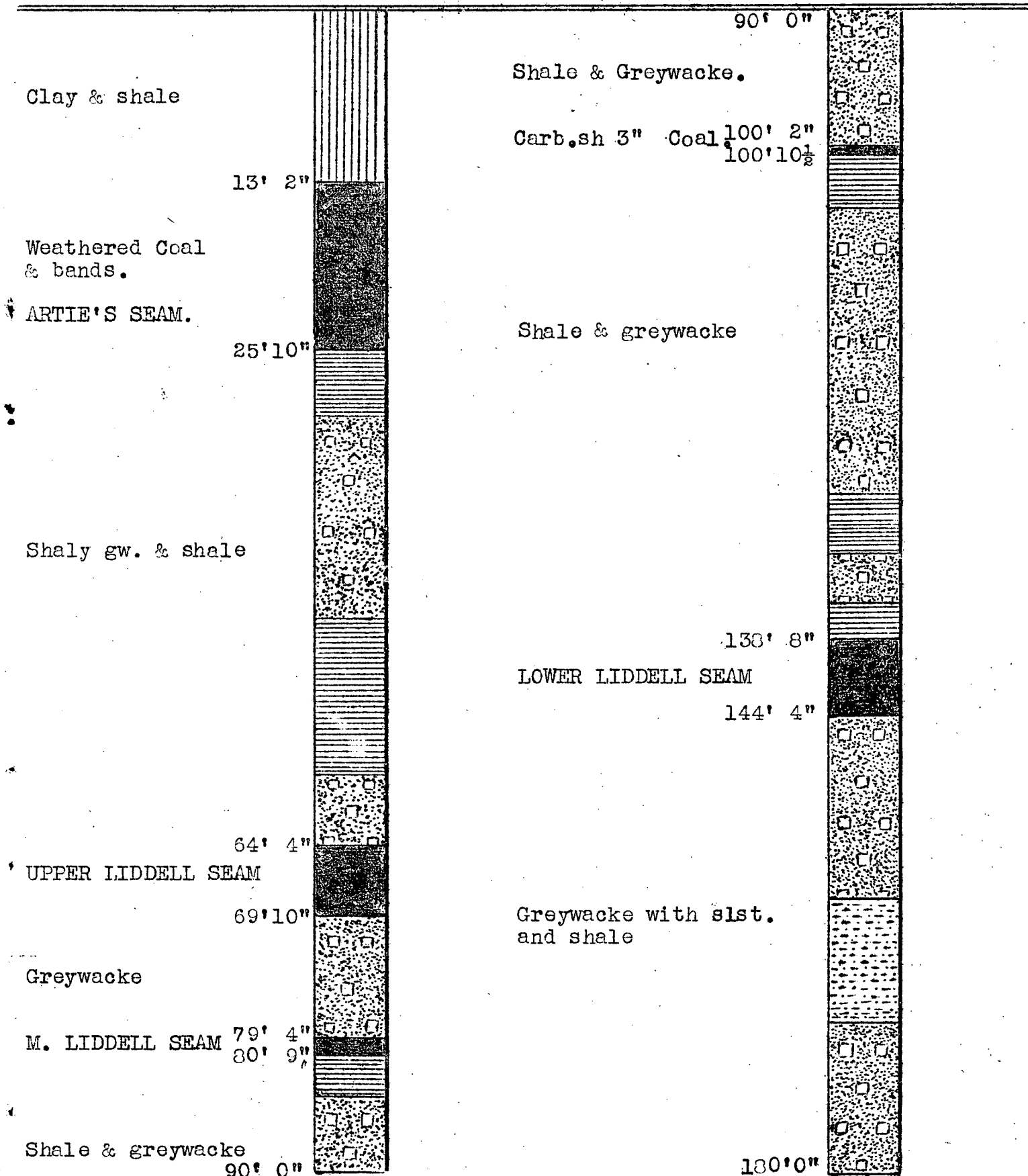
Datum: Standard

Begun: 30.7.52

Finished: 18.8.52

Depth: 300' 6"

STRATIGRAPHIC LOG (1"-10')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 9S

Elevation: 507 0' ASL

Reference: BMR Map N14/110, June 1953.

Datum: Standard

Begun: 30.7.52

Finished: 18.8.52

Depth: 300' 6"

STRATIGRAPHIC LOG (1"-10')

180' 0"

Cont

270' 0"

Gw. w. slst. & shale.

194' 4"

Shale. gw. & slst.

BARRETT'S SEAM

202' 0"

300' 6"

Shale, Greywacke & siltstone.

270' 0"

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 9S

Elevation: 507 0' ASL

Reference: BMR Map N14/110,

June 1953.

Datum: Standard

Begun: 30.7.52

Finished: 18.8.52

Depth: 300' 6"

COAL DETAIL (1"-2')

Shale br. to bk. carb.	13' 2"					79' 4"
	13' 9"	Coal mainly dull w. bright bds.				80' 9"
Shale brown to black carb. with smut.		Coal dull banded.				138' 8"
						139' 2"
		HM V FC Ash BThU				
	16' 9"	2.8 33.1 46.5 17.6 11,770	No. 3			
Smut black	17' 2½"	Coal dull & bright bdd. w. occas. t. bds. br. sdy. shale dk. br. powd. in part & w. wh. min. on cleavage planes.				
Smut to dant at bottom	18' 2½"					
Smut to dant	18' 4"					
	18' 9"					
	18' 11"					
Shale br. carb. silty w. band smut.	20' 6"					144' 4"
	20' 9"					
Mainly dant with light brown siltstone						
						194' 4"
		2.7 37.6 49.9 9.8 13,030	No. 4			
	23' 11"	Coal mainly d. but w. brt. lam & bds. pyr. & w. t. lens br. clst.				195' 10"
Smut & dant	24' 3"					
			No. 5			
	25' 10"	2.9 36.9 52.5 7.7 13,410	197' 3½"			
HM V FC Ash BThU			197' 5½"			
	64' 4"	Coal dull & brt. lam.	197' 10"			
2.5 35.0 53.4 9.1 13,080	No. 1					
Coal dull & brt. bdd. lam.		2.8 32.0 51.3 13.9 12,410	No. 6			
	65' 9"	Coal dull & bright with brown shaly sandy clst. carbonaceous & pyrite.				
2.9 36.7 53.0 5.4 13,750	No. 2					
Coal dull & bright bdd. dant, clayey.						
	68' 1½"					202' 0"
	68' 7"					
Coal dull & bright lam. and dant.						
	69' 10"					

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Hole No: BMR 105

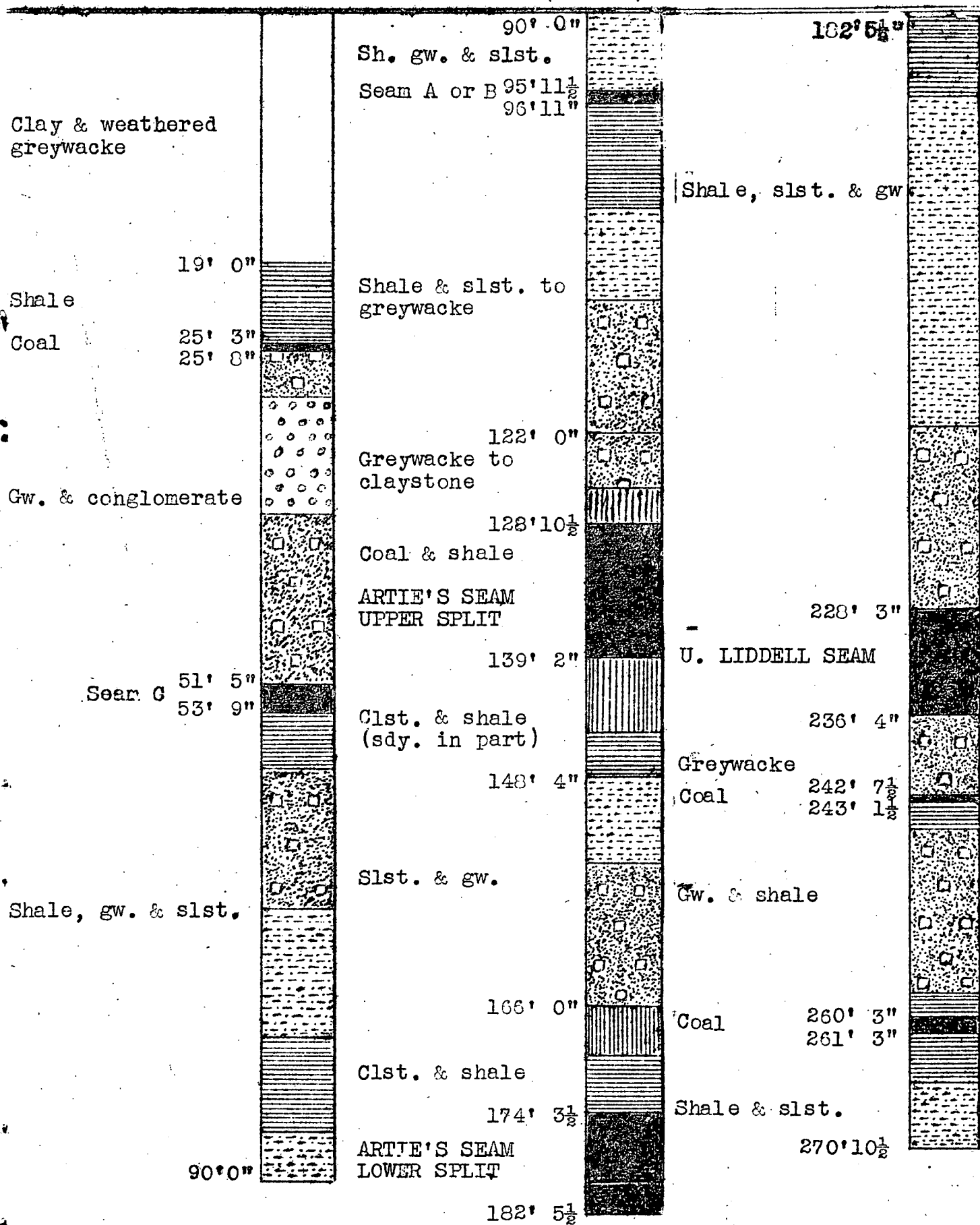
Elevation: 450.7' ASL

Datum: Standard

Finished: 27.8.52

Depth: 500' 0"

STRATIGRAPHIC LOG (1"-10')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 10S

Elevation: 450.7' ASL

Reference: BMR Map N14/110, June 1953.

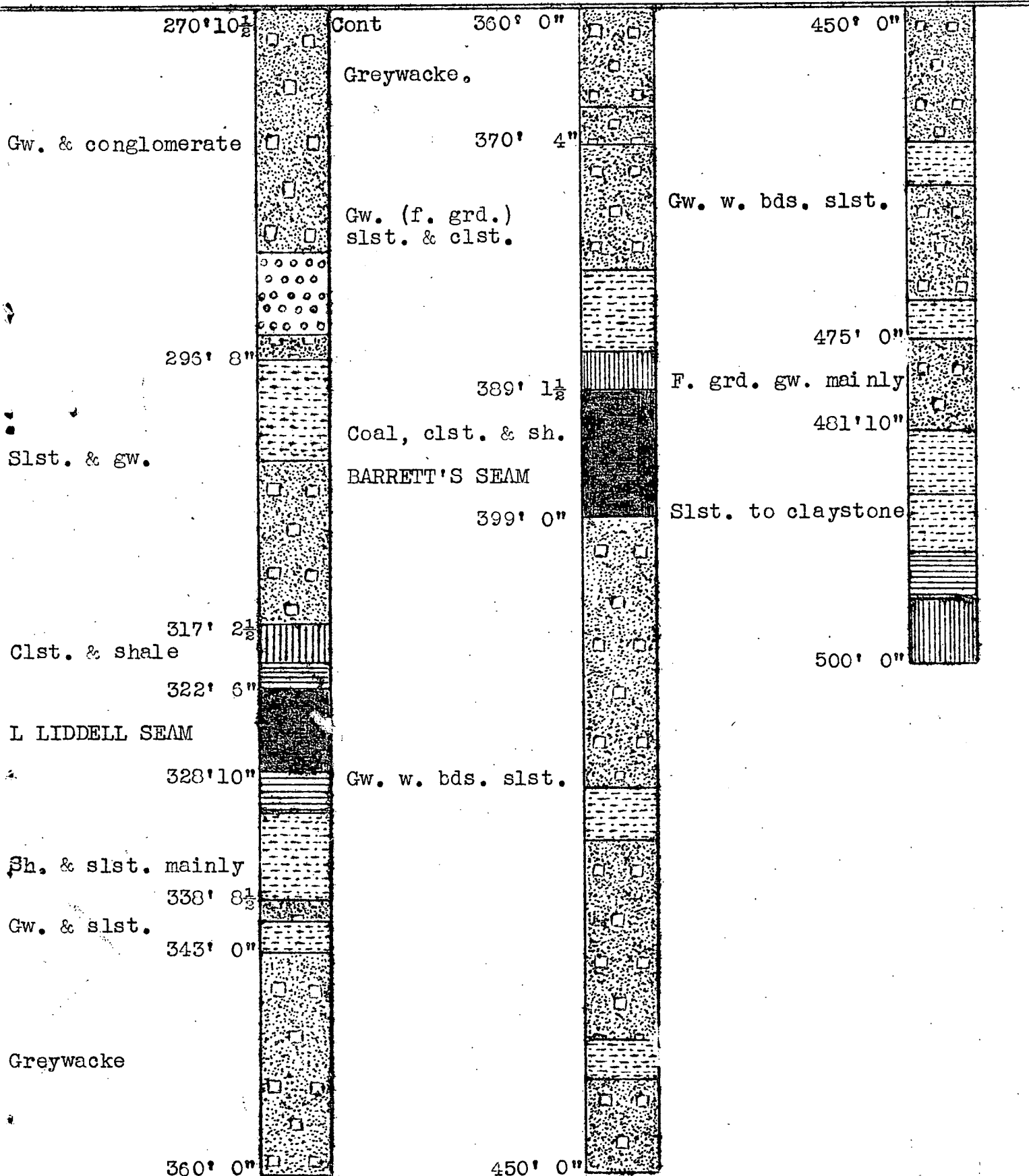
Datum: Standard

Begun: 4.8.52

Finished: 27.8.52

Depth: 500' 0"

STRATIGRAPHIC LOG (1"-10')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 10S

Elevation: 450.7' ASL

Reference: BMR Map N14/110, June 1953.

Datum: Standard

Begun: 4.8.52

Finished: 27.8.52

Depth: 500' 0"

COAL DETAIL (1"-2')

HM	V	FC	Ash	BThU		HM	V	FC	Ash	BThU	
2.5	34.7	47.8	15.0	12,230	No. 1	2.4	33.5	50.8	13.3	12,560	No. 8
Coal dull & bright lam w. R. bd. gw. & R lens clst. w. marcasite					128' 10 $\frac{1}{2}$ "	Coal d. & brt. lam w. clst. lens. dant					228' 3"
					130' 8 $\frac{1}{2}$ "						230' 0"
					131' 3"						
2.4	37.7	49.2	10.7	12,940	No. 2	2.6	34.9	49.7	12.8	12,690	No. 9
Coal dull & bright lam w. t. dk. gy. sh. bd. broken in part.					133' 2"	Coal bdd. to lamd. shy to powdery - mainly bright.					
2.4	34.5	56.4	6.7	13,530	No. 3						233' 5"
Coal dull & bright lamd. to shaly in part						2.9	31.8	49.4	15.9	12,100	No. 10
						Dant					234' 5"
					136' 2"	Coal bdd. w. lens marcasite.					235' 2"
Coal mainly bright to powdery also dant.						2.4	31.6	46.8	19.2	11,600	No. 11
						Coal d. & brt. bdd. mainly bright.					236' 4"
					139' 2"						
					174' 8 $\frac{1}{2}$ "						322' m6"
2.3	32.5	49.8	15.4	12,180	No. 4	2.5	31.9	44.9	20.7	11,360	No. 12
Coal, dull & brt. lam. dull & brt. bdd. pyr. with calcite.						Coal d. & brt. bdd. w. t. bd. friable gw.					324' 0"
Coal bdd. w. clst.					176' 10 $\frac{1}{2}$ "	Coal d. & brt. bdd.					324' 10 $\frac{1}{2}$ "
					177' 7"	Coal d. & brt. w. calcite on cleat					325' 2 $\frac{1}{2}$ "
2.6	34.6	50.5	12.3	12,680	No. 5	Coal d. lam. pyrite.					325' 11 $\frac{3}{4}$ "
Coal d. & brt. bdd. w. pyr. carb. sh. near bot.					178' 10"						
Coal mainly bright.						2.6	30.9	46.3	20.2	11,430	No. 13
						Coal lamd. dull & brt. with some thin shale bands.					
2.6	33.5	48.7	15.2	12,250	No. 6						328' 10"
Coal dull & bright w. bright bds slightly pyr. w. calcite.					180' 4 $\frac{1}{2}$ "						
					181' 2"						
					181' 4 $\frac{1}{2}$ "						
2.7	30.6	48.0	13.7	12,710	No. 7						
Coal bdd. w. calcite pow. & intermixed w. carbonaceous shale					182' 5 $\frac{1}{2}$ "						

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 10S Elevation: 450.7' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 4.8.52 Finished: 27.8.52 Depth: 500' 0"

COAL DETAIL (1"-2')

HM	V	FC	Ash	BTBU
2.2	37.4	49.1	11.3	12,970

Coal d. & brt. bdd. to
 lamd. w. rare dark br.
 shale bands.

389' 1½"

No.14

392' 0"

392' 2½"

2.4	28.7	44.5	24.4	10,690
-----	------	------	------	--------

Coal d. & brt. w. brt.
 bds. pyr. lamd. to bdd.
 w. claystone.

No.15

393' 9"

393' 11½"

2.3	36.9	50.4	10.4	13,090
-----	------	------	------	--------

Coal lamd. to bdd. pyr.
 w. calcite & cleat.

No.16

395' 0½"

395' 3"

22.4	31.1	15.4	21.1	11,160
------	------	------	------	--------

Coal lamd.

No.17

396' 2½"

2.5	28.6	44.8	24.1	10,720
-----	------	------	------	--------

Coal powdery bright & carb. sh.

No.18

397' 0"

2.8	28.0	44.4	24.8	10,580
-----	------	------	------	--------

Coal d. & brt. bdd. inter-
 mixed with dant.

No.19

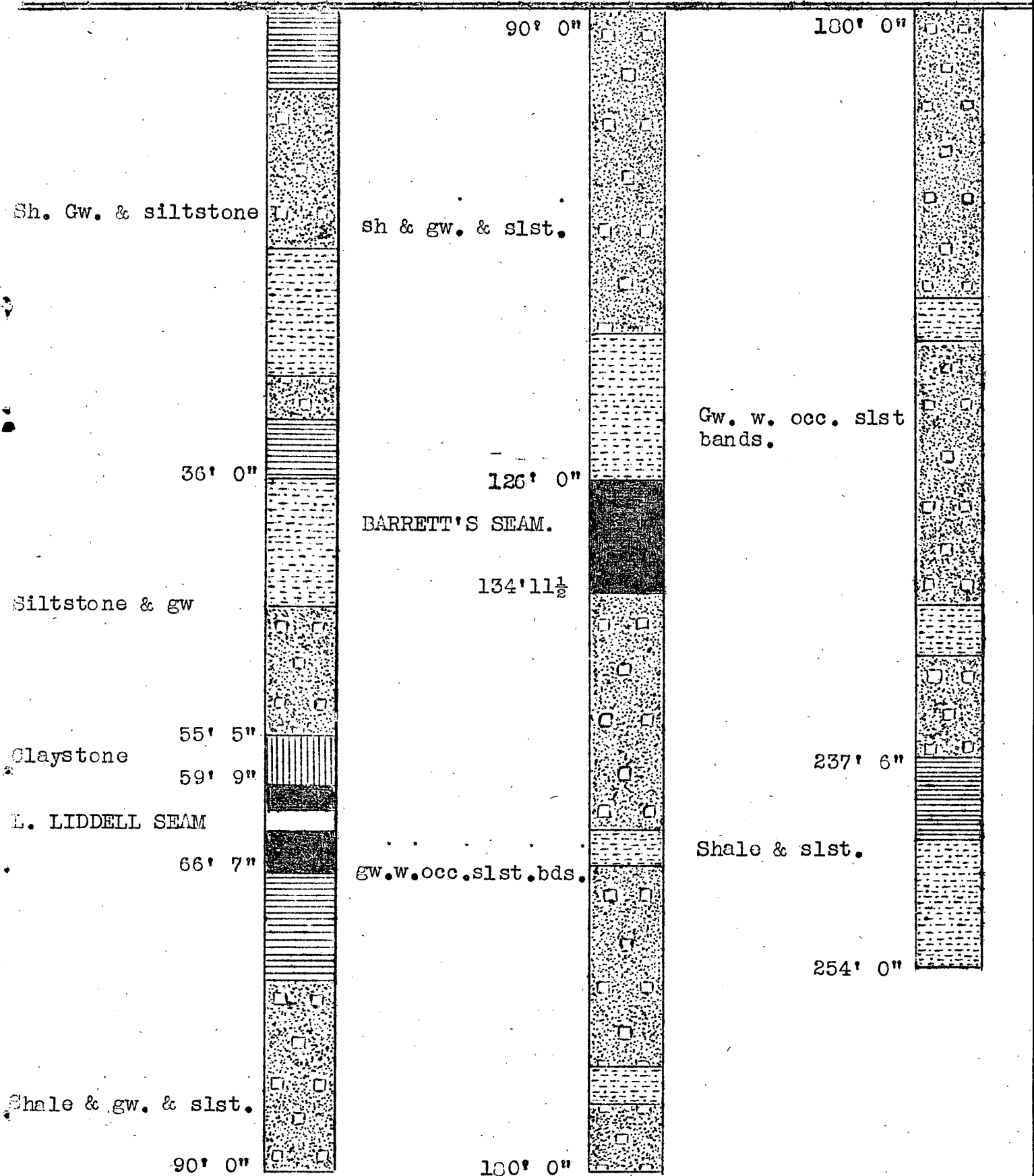
399' 0"

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 12S Elevation: 441.1' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 22.8.52 Finished: 1.9.52 Depth: 254' 0"

STRATIGRAPHIC LOG (1"-10')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 12S Elevation: 441.1' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 22.8.52 Finished: 1.9.52 Depth: 254' 0"

COAL DETAIL (1"-2')

Coal dull laminate

HM	V	FC	Ash	BThu
4.1	33.8	49.6	12.5	12,460

Coal d. & brt. w. R. bd
carb. shale

Coal d. & bright bdd.

59' 9"

60' 5"

63' 7 $\frac{1}{2}$ "

63' 10"

No. 1

2' 0"

65' 10"

66' 1"

66' 7"

3.4	38.7	50.9	7.0	13,440
-----	------	------	-----	--------

Coal dull & bright
lamd. to bdd. pyrite.

126' 0"

No. 2

2' 8"

128' 8"

128' 9 $\frac{1}{2}$ "

3.9	31.3	51.5	13.3	12,370
-----	------	------	------	--------

Coal dull & bright bdd.
Pyr.w.t.clst.bds.

No. 3

130' 0 $\frac{1}{8}$ "130' 2 $\frac{1}{8}$ "

1' 3"

3.8	36.5	51.7	8.0	13,180
-----	------	------	-----	--------

Coal d. & brt. lamd.
bdd. over bot. 4" pyr.

No. 4

131' 6"

131' 9 $\frac{1}{8}$ "1' 3 $\frac{1}{2}$ "

3.9	35.3	50.3	10.5	12,840
-----	------	------	------	--------

Coal d. & brt. bdd. to
lamd. w. R. t. bds. carb sh.

No. 5

133' 2 $\frac{1}{8}$ "133' 5 $\frac{1}{8}$ "

1' 5"

4.2	33.8	49.7	12.3	12,520
-----	------	------	------	--------

Coal d. & brt. w. R. sh.
lam pyr. t. bd. bk carb.
pyrite.

No. 6

134' 11 $\frac{1}{8}$ "

1' 6"

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 13S

Elevation: 455.5 ASL

Reference: BMR Map N14/110, June 1953.

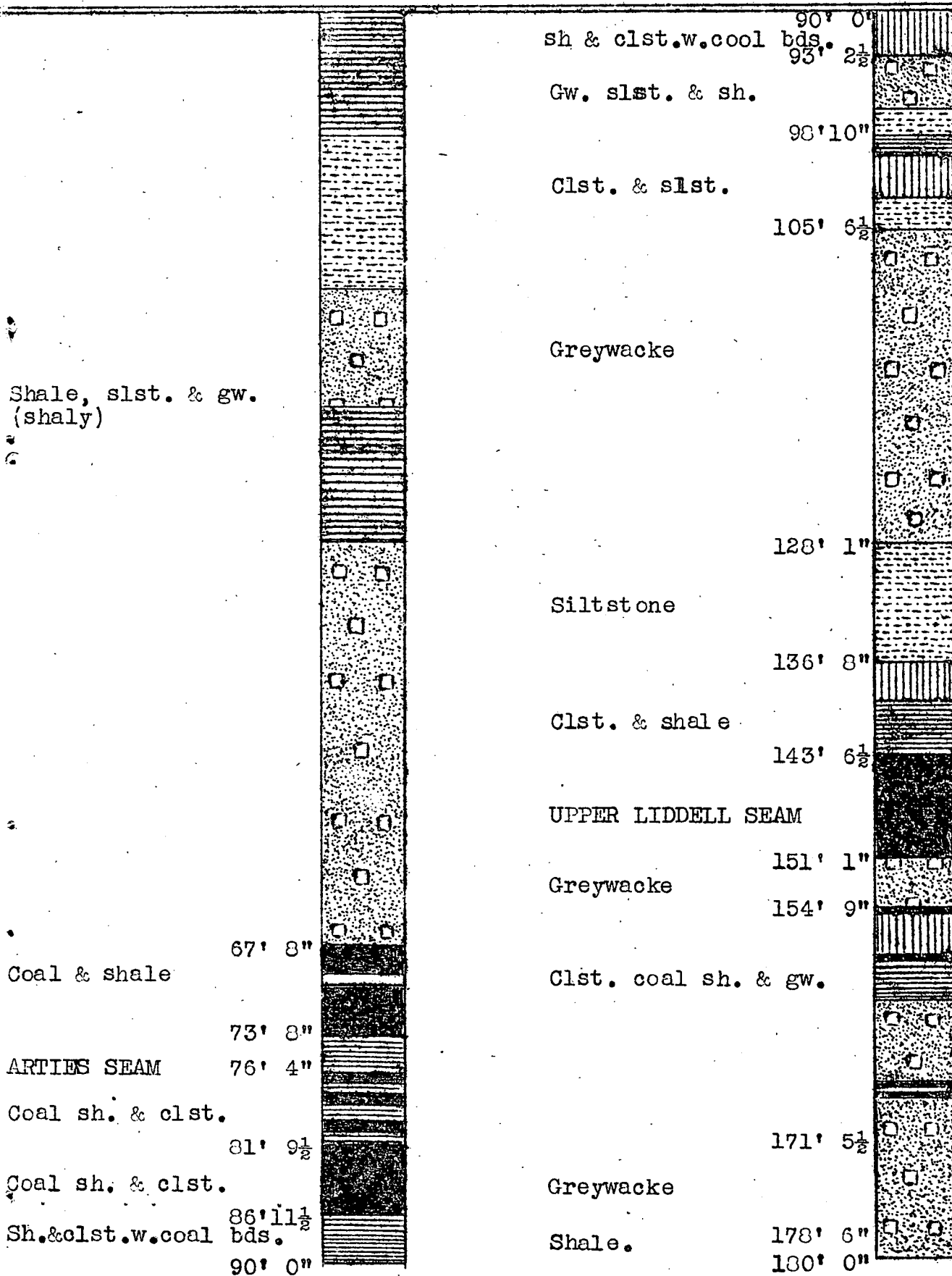
Datum: Standard

Begun: 25.8.52

Finished: 19.9.52

Depth: 300' 0"

STRATIGRAPHIC LOG (1"-10')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 13S

Elevation: 486.5' ASL

Reference: BMR Map N14/110, June 1953.

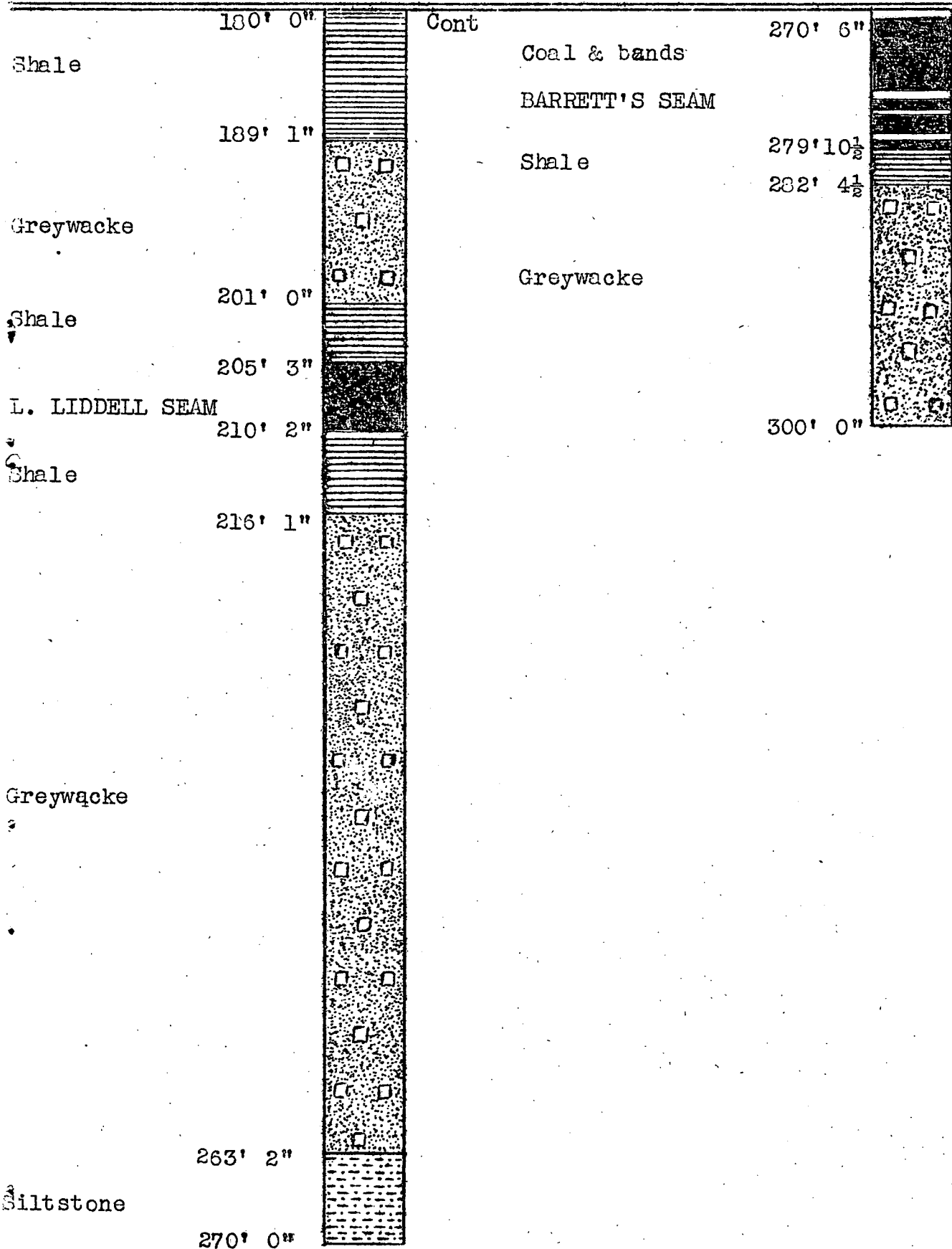
Datum: Standard

Begun: 25.8.52

Finished: 19.9.52

Depth: 300' 0"

STRATIGRAPHIC LOG (1"-10")



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Hole No: BMR 13S

Elevation: 486.5: ASL

, Datum: Standard

Finished: 19.9.52

Depth: 300' 0"

COAL DETAIL (1"-2')

HM	V	FC	Ash	BthU	No.	Coal d. & brt. bdd. mainly brt. cleated carb in part.
3.8	36.3	47.1	12.8	12,460	No. 1	
3.6	36.3	45.7	14.4	12,250	No. 2	Coal d. & brt. lamd. & d. w. R. silty t. clst. band.
4.1	31.3	52.3	12.3	12,230	No. 3	Coal mainly d. w. brt. bds. w. t. bd. l. gy. silty shale.
4.8	33.4	49.5	12.3	12,380	No. 4	Coal d. & brt. bdd. cleated w. occ. br. silty sh. lens Shale w. brt. coal bds.
4.6	34.6	49.0	11.8	12,490	No. 5	Coal d. & brt. bdd. cleated w. R. t. sh. lens clst. shy. w.t. lens carbonaceous shale.
4.8	31.5	52.4	12.3	12,420	No. 6	Coal mostly bright.
4.0	33.3	52.0	5.7	13,640	No. 7	Coal mostly bright.
4.3	37.9	53.0	4.8	13,730	No. 8	Coal mostly brt. frag.
4.1	35.4	48.0	12.5	12,510	No. 9	Coal brt. fragmentary
4.5	30.4	41.5	23.6	10,480	No. 10	Coal brt. frag. shy, w. bright bands.
3.4	33.7	51.1	6.8	13,590	No. 11	Coal brt. w. calcilutite lntd.
4.4	34.4	48.9	12.3	12,490	No. 12	Coal bright w. diffuse brown shale
4.4	30.2	47.7	17.7	11,380	No. 13	Coal mostly bright
3.9	36.9	50.6	8.6	12,940	No. 14	Coal mostly bright w. calcilutite filled cleat.
4.3	35.6	50.6	9.5	12,930	No. 15	Coal mostly bright.
5.1	33.2	49.5	12.2	12,230	No. 16	Coal dull & bright
4.4	33.6	48.4	13.6	12,130	No. 17	Coal mostly dull.

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 14S

Elevation: 546.1' ASL

Reference: BMR Map N14/110, June 1953.

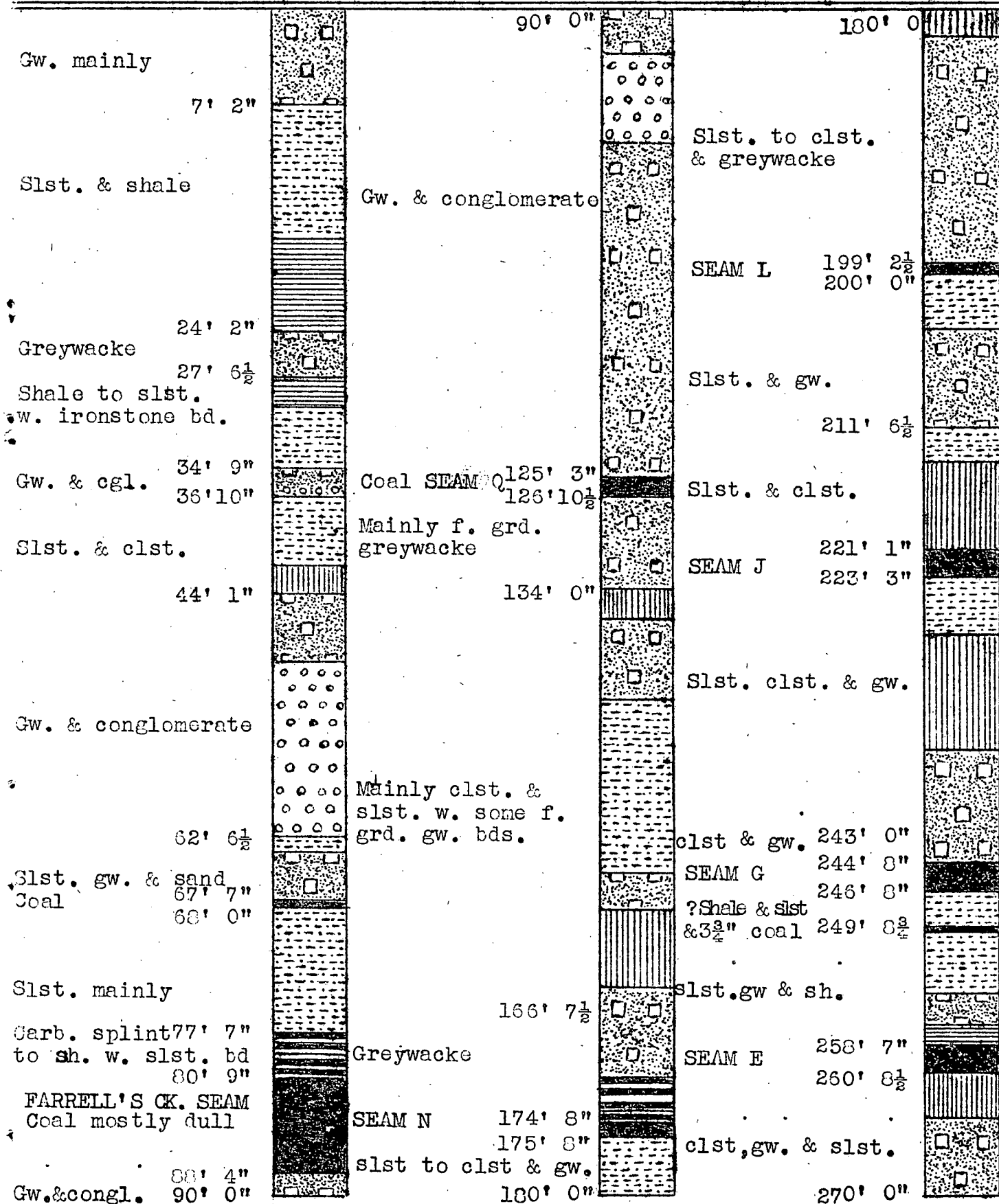
Datum: Standard

Begun: 2.9.52

Finished: 17.10.52

Depth: 464' 0"

STRATIGRAPHIC LOG (1"-10')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 14S

Elevation: 546.1' ASL

Reference: BMR Map N14/110, June 1953.

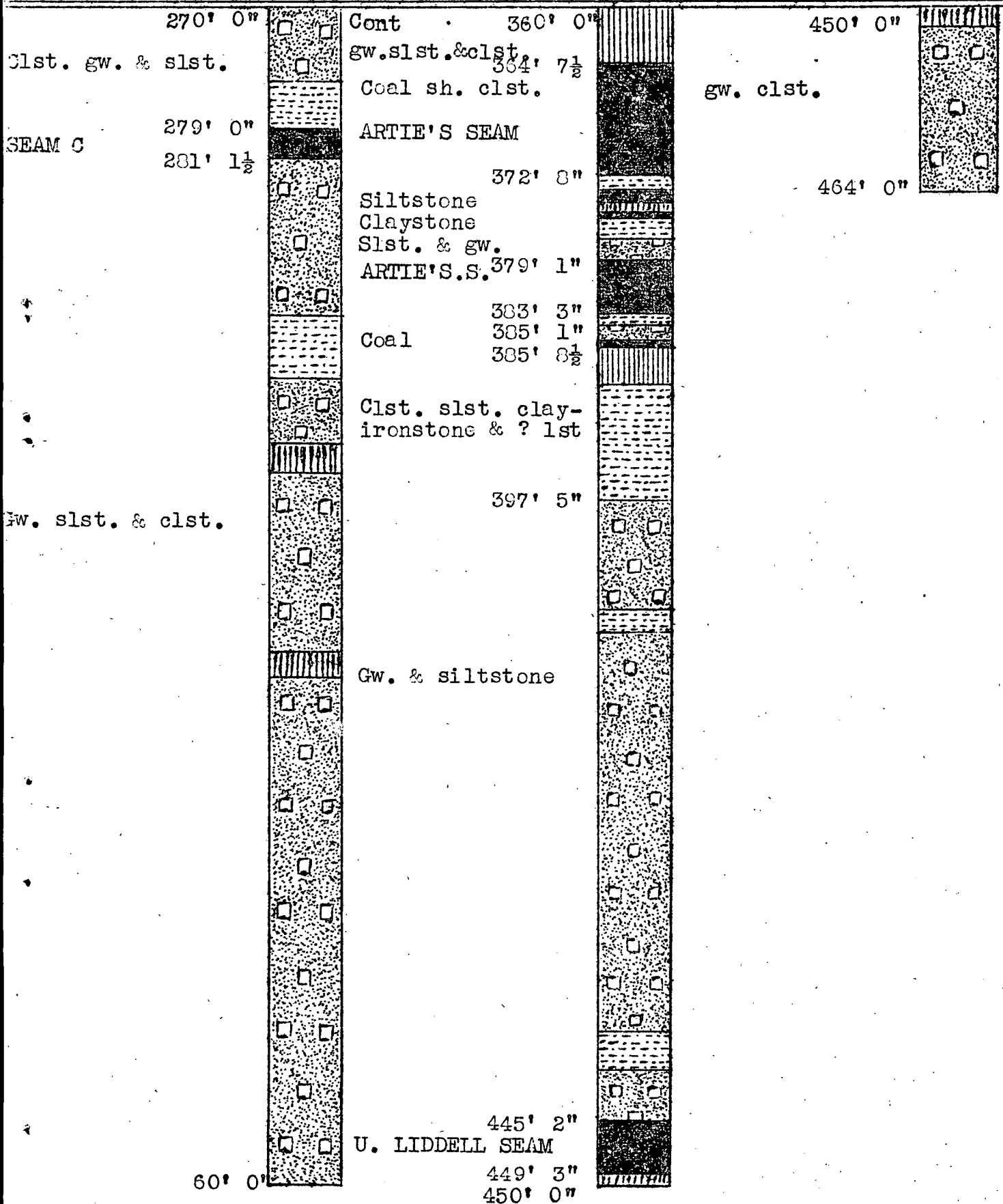
Datum: Standard

Begun: 2.9.52

Finished: 17.10.52

Depth: 464' 0"

STRATIGRAPHIC LOG (1"-10')



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics.

Area: Parnell's Creek Hole No: 14 (S) Elevation: 546.1' ASL
 Reference: BMR Map N14/110, June, 1953 Datum: Standard
 Begun: 2.9.52 Finished: 17.10.52 Depth: 464'

COAL DETAIL (1"-2')

M.N. V. F.C. Ash. BThU. 80' 9"
 3.2 23.5 49.5 23.8 10.180 No.1
 Coal dull. 81' 8"
 3.1 28.7 59.0 9.2 12.690

Coal dull w. bright
 bds. & lam. pyrite. No.2

84' 1"

3.1 28.3 55.6 13.0 12.160

Coal dull & bright
 bdd. laminated. No.3

86' 0"

2.7 28.8 53.2 15.3 11.940

Coal dull & bright
 bdd. laminated. No.4

88' 4"

364' 7½"

2.4 33.7 45.7 18.2 11.740 365' 0"

Coal dull & bright
 lam. splint carb. sh.
 bright bdd. frag-
 mentary. No.5

365' 10"

2.3 34.9 52.1 10.7 12.790

Coal dull w. bright
 lam. bk. shy. lam. (v.f.) No.6

369' 0"

2.6 36.6 53.9 6.9 13.480

Coal dull & bright bdd. No.7

371' 4"

371' 8"

2.4 32.4 47.7 17.5 11.770

Coal bright w. t. sh.
 bd. & br. clst. bds. No.8

372' 8"

373' 8"

Coal dull & bright.

374' 11"

Coal dull to carb.
 splint w. br. coal lam.
 t. bd. shale. 375' 7"
 375' 10½"

Coal dull & bright
 bdd. splint dk. br.
 to bk. carbonaceous.

379' 1"

383' 3"

385' 1"

385' 8½"

445' 2"

COAL, dull & bright
 bdd. w. R.f. sh. lam. No.9

446' 5"

2.4 31.8 51.6 14.2 12.310

Coal dull w. t. br. bds.
 mainly w. fusain. No.10

448' 4"

Coal dull w. t. br.
 bands broken. 449' 3"

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 16S

Elevation: 491.5 ASL

Reference: BMR Map N14/110, June 1953.

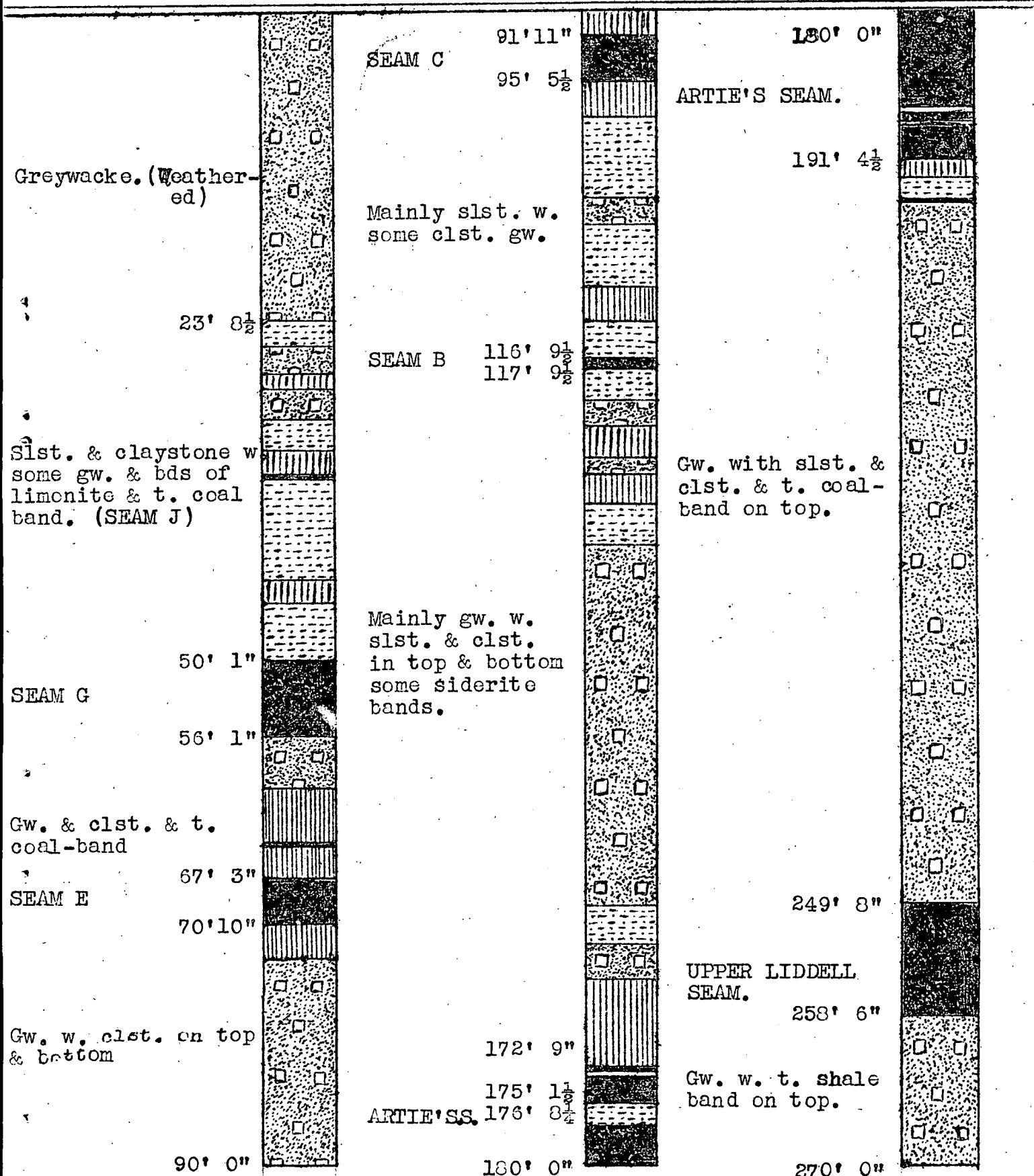
Datum: Standard

Begun: 3.9.52

8.10.52

Depth: 420' 0"

STRATIGRAPHIC LOG (1"-10')

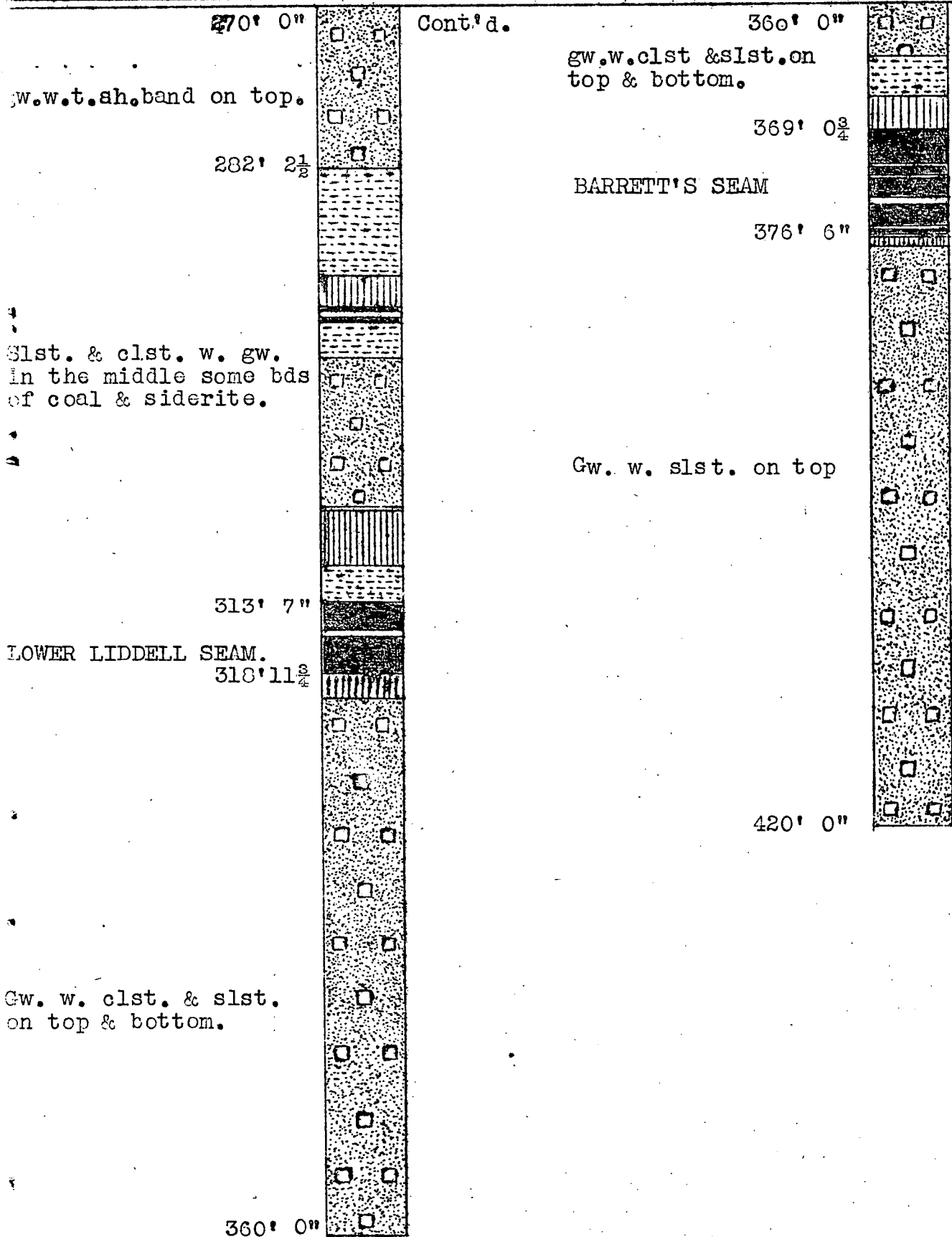


COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek Hole No: BMR 16S Elevation: 491.5' ASL
 Reference: BMR Map N14/110, June 1953. Datum: Standard
 Begun: 3.9.52 Finished: 8.10.52 Depth: 420' 0"

STRATIGRAPHIC LOG (1"-10)



COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 16S

Elevation: 491.5' ASL

Reference: BMR Map N14/110, June 1953.

Datum: Standard

Begun: 3.9.52

Finished: 8.10.52

Depth: 420' 0"

COAL DETAIL (1"-2')

HM	V	FC	Ash	BTHU		HM	V	FC	Ash	BTHU	
3.5	33.1	48.8	14.6	12,030	No. 1	2.3	38.0	48.2	11.5	12,720	No. 10
Coal dull & bright bdd.					51' 1 1/2"	Coal dull & bright banded w. cleat.					178' 10 3/4"
					51' 5 1/2"						178' 11"
4.1	32.2	48.8	14.9	11,930	No. 2	2.3	32.5	54.3	10.4	12,800	No. 11
Coal dull & bright banded.					53' 5 1/2"	Coal dull & bright w. splint bdd. w. cleat.					180' 8"
Coal bright w. cleat carb.sh & clst.					54' 6"	Coal dull w. t.bright bds.					182' 0"
											182' 1 1/2"
4.5	32.3	50.4	12.9	12,230	No. 3	2.6	39.3	52.6	5.5	13,690	No. 12
Coal bright with thin dull bands.					56' 1"	Coal mainly bright w. cleat.					
					67' 3"						183' 11 3/4"
3.6	29.4	47.5	19.5	11,400	No. 4						184' 1"
Coal dull w. brt. bds.					68' 3"	2.9	33.0	47.5	16.6	11,830	No. 13
					68' 4"	Coal d. & brt. w. carb. splint interbdd. w. d. & bright bands.					186' 2"
4.0	34.7	54.1	7.2	13,150	No. 5						186' 4"
Coal mainly bright w. cleat.						3.2	34.8	52.5	9.5	12,860	No. 14
					70' 10"	Coal dull w. brt. bds.					187' 6"
					91' 11"						
3.7	33.9	54.9	7.5	13,220	No. 6						188' 11 1/8"
Coal mainly brt. w. good cleat & dull banded.					93' 2 1/2"	3.3	29.8	43.7	23.2	10,490	No. 15
						Coal dull and bright bdd mainly broken.					190' 0 1/4"
3.3	37.5	53.1	6.1	13,250	No. 7	2.8	34.6	51.1	11.5	12,680	No. 16
Coal mainly bright with cleat.						Coal dull & bright bdd.					191' 4 1/2"
					95' 5 1/2"						
2.3	36.5	48.2	13.0	12,400	No. 8						
Coal bright & dull bdd.					173' 6 1/2"						
3.2	38.4	50.3	8.1	13,110	No. 9						
Coal bright w. cleat.					175' 1 1/2"						

COMMONWEALTH OF AUSTRALIA

Bureau of Mineral Resources, Geology and Geophysics

Area: Parnell's Creek

Hole No: BMR 16S

Elevation: 491.5' ASL

Reference: BMR Map N14/110, June 1953.

Datum: Standard

Begun: 3.9.52

Finished: 8.10.52

Depth: 420' 0"

COAL DETAIL (1"-2')

HM	V	FC	Ash	BTHU
2.3	36.7	54.3	6.7	13,530

No.17

Coal dull & bright bands.

252' 8"

HM	V	FC	Ash	BTHU
2.7	36.2	51.1	10.0	12,910

No.18

Coal mainly bright with some dull bands.

255' 8"

HM	V	FC	Ash	BTHU
4.0	35.4	52.0	8.6	13,050

No.19

Coal mainly bright with some dull bands w. shale partings.

258' 6"

HM	V	FC	Ash	BTHU
3.3	31.7	43.5	21.5	10,960

313' 7"

No.20

Coal d. & shy. w. brt.bds

HM	V	FC	Ash	BTHU
3.6	35.2	51.3	9.9	12,740

314' 6 $\frac{1}{2}$ "

No.21

Coal brt. w. some t. d. bds.

315' 8"

316' 0 $\frac{1}{2}$ "

HM	V	FC	Ash	BTHU
3.3	33.2	45.0	18.5	11,400

No.22

Coal d. w. brt. bds.

317' 3 $\frac{3}{4}$ "317' 5 $\frac{3}{4}$ "

HM	V	FC	Ash	BTHU
3.3	32.7	48.7	15.3	11,970

No.23

Coal mainly brt. w. cleat bkn. & t. d. bands.

318' 11 $\frac{3}{4}$ "

HM	V	FC	Ash	BTHU
2.7	37.7	49.9	9.7	13,230

369' 0 $\frac{3}{4}$ "

No.24

Coal d. & brt. bdd. in top t. brt. w. d. bds.

371' 4 $\frac{1}{2}$ "

Coal brt. w. cleat & carb. shale partings.

372' 4 $\frac{3}{4}$ "

HM	V	FC	Ash	BTHU
3.1	33.1	46.2	17.6	11,670

No.25

Coal brt. & slst. clst. & dull banded.

373' 9 $\frac{3}{4}$ "374' 2 $\frac{3}{4}$ "

HM	V	FC	Ash	BTHU
3.0	34.6	50.3	12.1	12,500

No.26

Coal d. & brt. bdd. w. some t. sh. bds.

375' 5 $\frac{1}{4}$ "

Coal brt. w. cleat & sh. & interbdd. slst.

375' 7 $\frac{1}{4}$ "375' 10 $\frac{1}{4}$ "

376' 6"