

	Ft.	In.				
Clay .....	1	0				
Shaley coal .....	1	2				
No. 5. Fireclay .....	1	6	3	6	2	6
Layer coarse sandstone .....	1	0				
Impure, coaly layer .....	1	4				
Coarse, gritty sandstone .....			2	0		
Tough, shaley clay .....	2	0				
Good, solid coal .....	3	6				
No. 6. Carbonaceous shale .....	1	0				
Good coal .....	2	8	6	2	7	0
Carbonaceous shale and coal, with clay layers .....	4	0				
			946	2	13	10

The uppermost seam in the above section has the appearance of being doubled over upon itself, thus causing the coal to assume twice its actual thickness, which would be about three feet six inches. This is not by any means certain, as the situation of the seam is at such a low level, and the influx of water was so great, as to prevent our studying it out thoroughly.

The quality of the coal in this latter seam was excellent, being bright black, clear, and very free from impurities.

Several attempts were made to reach the bed rock at points on the brook both above and below this outcrop, wherever the banks of gravel and clay seemed to offer some prospect of doing so. In no case were we successful, such was the depth and toughness of the superficial deposits. Numerous loose fragments of coal were met with in all these cuttings; and at one or two points, a very tough clay, which formed the base of the bank, contained many angular fragments, apparently not far removed from their parent bed. All these could scarcely have been derived from the few outcrops seen, furthermore, as some fragments were picked up in the bed of the brook further up stream, it is but fair to assume that other coal seams than those already discovered exist here.

In my last year's report it was intimated that eastward from Brok, confirms the supposition then set forth, that the coal measures out-cropping on the surface appeared at all probable, and that consequently we were left to conjecture only what might be the structure in that direction. This latter discovery on Kelvin