

with a S. to S.E. dip 12°, resting upon hard quartz grits. The coal here has the appearance of being much crushed and broken. Further to the south than those above given, four island mounds are marked, showing, as nearly as could be observed, holding coal 5 feet throughout. This coal, as seen from the many exposed sections around the mounds, is of itself troubled, and being very wavy, thinning and thickening at short intervals, in many places the floor and roof all but meeting. To the south of break 14, and west under break 16, four islands mounds are marked, showing sections of coal thus:—

								Ft.	in.
Section No. 16.	{	Grits, fine	...	...	...	...	...	10	0
		Soft Sandstone	...	...	...	...	...	5	0
		Blaze	...	...	...	...	...	4	0
		Coal	...	...	...	...	...	12	0
		Shale Blaze	...	...	...	...	...	6	0
							<hr/>	37	0

Dip S. 8°, resting upon hard quartz grits.

								Ft.	in.
Section No. 19.	{	Fine Grits	...	...	...	...	...	8	0
		Soft Sandstone	...	...	...	...	...	3	0
		Blaze	...	...	...	...	...	3	0
		Coal	...	...	...	...	...	8	0
		Shale Blaze	...	...	...	...	...	4	0
							<hr/>	27	0

Dip S. 10°, resting upon hard quartz grits.

								Ft.	in.
{	Fine Grits	...	...	...	...	...	3	0
	Soft Sandstone	...	...	...	...	...	2	0
	Blaze	...	...	...	...	...	3	0
	Coal	...	...	...	...	...	8	0
	Shale Blaze	...	...	...	...	...	4	0
							<hr/>	20	0

Dip S. 10°, resting upon hard quartz grits.

Small section shows on face of fault 11, near station L. 43, showing a thickness of coal 9 feet, holding same thickness throughout the section. The coal in the sections above given, Nos. 16, 19, and 21, appears to be much crushed, the coal to the eastward of the sections showing good in quality, but faulting towards westward break 16. The remaining part of the area, not filled in as containing coal, holds on the surface the same hard quartz grits as shown in sections above, floor of coal bearing to appearance that of coal having been denuded from off same, leaving the preserved sections above given; those grits (bottoms), for most part throughout, hold great solidity and thickness. I have traversed up and down the various creeks in this level; and, notwithstanding their being gorgy and worn down well into the grits, I have failed to trace any indications of a lower seam, but have considerable doubt but that there does exist a lower seam here, it no doubt being prevented from cropping to westward by granite belt previously mentioned on sea fault.

Mid Levels A and B (Frederick).—On these levels I have not been so successful in tracing coal, the surface here holding hard quartz grits, and bearing the same appearance as previously stated regarding eastern part of High Level A—namely, that the coal has been denuded off same. The surface in this level is very much disturbed, the stone itself holding many dips at short distances, together with many small breaks. Throughout this level many small creeks are got, they being gorgy with precipitous sides worn down into the measures 50, 60, 70, and 80 feet. In those I have failed to trace any indications of a lower seam; but, as mentioned regarding High Level A, have considerable doubts, the proving of same being beyond the reach of my limited surface explorations.

Mid Level C (Frederick).—In this level the same indications present themselves as in the former levels A and B, with one exception—the finding of a small section of coal (preserved) on or near Station L. 64, showing,—

								Ft.	in.
Fine Grit	...	...	...	...	...	...	10	0
Soft Sandstone	...	...	...	...	...	...	6	0
Blaze	...	...	...	...	...	...	3	0
Coal	...	...	...	...	...	...	6	0
Shale Blaze	...	...	...	...	...	...	4	0
							<hr/>	29	0

Dip, E. 10°, resting upon hard quartz grits. The coal presents a shaken appearance to the south of this section. In face of main east break Webb's Creek is struck, and being well worn down into grits, north side. In this when traversed we failed to trace any indications of a lower seam, but hold the same doubts in this as mentioned in former levels, it being an area of denudation.

Low Level A (Frederick).—On those levels I have not been successful in tracing coal in quantity; the surface here—that is, in area of ground confined by fault 12 on the west, fault 9 on the east, Fly Creek on the north, and main east break on the south—being composed for most part of hard quartz