

the seams which were worked have either pinched out or are covered over by a considerable amount of clay and dirt which has recently slid over the river bank here.

Elbow River

A seam of coal, two feet six inches wide, outcrops in the north bank of the Elbow river (see 19, tp. 23, R. IV.), but the formation is nearly all somewhat deeply covered here for a considerable distance and very little bed rock is to be seen.

Another seam, approximately two feet six inches wide, outcrops on sec. 33, tp. 22, & V., in the south bank of the Elbow river. This is, probably, at the same horizon as the seams on Bragg creek to the north.

Bragg Creek

Two seams of coal outcrop in the south bank of Bragg creek, sec. 7, tp. 23, R. V. Considerable work was done here a number of years ago, but all the works are now completely caved in. The following section was measured in the bank of the creek, but as there is very little outcrop either above or below this for some distance there may exist more coal than was seen.

	Shales,	Feet	Inches,
Coal	Bituminous shales	2	6
	Sandstone	2	6
Coal		6	0
	Sandstone	1	6

An average outcrop sample, analysed by Dr. Hoffmann, gives:

Water	Vol. comb. matter.	Fixed carbon.	Ash.
9.31%	35.59%	41.72%	13.38%

South Branch of Fish Creek

On the northwest $\frac{1}{4}$, sec. 7, tp. 22, R. III., are several seams of lignite known as "Shaw's coal." One tunnel was run over 180 feet on a seam here averaging about two feet in thickness, but it is very irregular and pinched down to a few inches in several places. An analysis of an average outcrop sample of this, made by Dr. Hoffmann, gives:

Water.	Vol. comb. matter.	Fixed carbon.	Ash.
4.76%	33.91%	56.37%	5.96%

There are other narrower seams here,—one is eighteen inches, and several vary from two to six inches.

On the northeast $\frac{1}{4}$, sec. 4, tp. 22, R. III., is a seam of lignite having a varying thickness of from two inches to three or four feet. The general dip is about flat, but the formation is somewhat irregular and undulating.