ing. There is an old caved in tunnel on the north bank of the creek, showing that coal was mined here at one time. On the south side of, and up the creek 200 to 300 feet, is a seam, probably the same one. This property is known as "Patterson's coal."

North Branch of Fish Creek

On the south bank of this creek and 400 or 500 feet from it, S.W. ¼, sec. 21, tp. 22, R. III., are a number of old mine workings, all now caved in or full of water.

The following section was obtained in one place near an old shaft:—

	Feet	Inches
Coal	2	0
Shale	0	8
Coal	3½ to 4	
Shale	½ to 1	
Coal	4 to 5	
	11	6

The dips are here about perpendicular.

This is known as "Causby's coal" and is the most valuable of these Fish Creek coal properties, which are all of the same horizon and should prove of considerable importance. These coals seem to be at the same horizon as those at Lineham P. O. on the south branch of Sheep river and at Mr. Towers' place on Jumpingpound creek.

South Branch of Sheep River.

On the S.E. ¼, sec. 30, tp. 19, R. IV., is a seam over seven feet in thickness of very good appearing coal. An average outcrop sample, analysed by Dr. Hoffmann, gives:—

Water	Vol. comb. matter	Fixed carbon	Ash
2·50%	35·88%	56·64%	4·98%

There are also several narrower seams here of only a few inches in thickness.

On the S.W. ¼, sec. 29, tp. 19, R. IV., occur several seams of coal a few feet apart. Two were noticed from five to six feet in thickness, and five from two to four feet. There are also two old tunnels that are entirely caved in, preventing an examination of the seams they have opened up. Below this point and within a distance of about three miles, a number of seams from a few inches to three feet outcrop, and there are probably others which were not seen. These measures are somewhat irregular in places, but regular points may be found. On account of the steep, high banks, and the high hills to the south, good facilities are offered for prospecting and mining.

An average outcrop sample of the five foot seam above, analysed by Dr. Hoffmann, gives:—

Water	Vol. comb. matter	Fixed carbon	Ash
2·16%	34·65%	56·42%	6·77%