

BY ROBERT N. BELL
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Idaho's Coal Fields and Their Possibilities.

THIS fuel problem in Idaho is one of the most serious questions touching the future material development of the state; for while our territory is lavishly endowed by nature with a variety of natural resources, the one most important item of coal resource is rather deficient in its development, as only 38 per cent of the total area of the state is occupied by coal bearing formations. However, recent investigation has shown that Idaho possesses a limited area of the most important coal bearing formations of the west, as far as known this coal bearing region is not to exceed 20 by 30 miles in extent and covers a portion of the western borders of Fremont and Bingham counties, adjoining the Wyoming state line.

LIGNITE COAL DEPOSITS.

Blossoms of lignite coal have been discovered in half a dozen different counties in the state, but with the exception of those at Salmon City, nothing has been disclosed so far of commercial importance in this line. The lignite coals are usually very high in ash and moisture, and while some of them may prove of commercial importance as a source of domestic fuel, it is hardly likely that they will ever cut much figure in a commercial way, as they are usually of very limited area.

The coal deposits of Bingham and Fremont counties are of the bituminous variety and are contained in a well developed series of cretaceous coal bearing formations. Lower Laramie, without question, a part of the rich coal bearing series of western Wyoming, and contain the characteristic fossils of that series extensively developed.

AT HORSE SHOE CREEK.

The most important occurrences of coal in the state, so far discovered and developed, are at Horse Shoe creek, a tributary of the Teton river, in Fremont county, about 25 miles east of Sugar City, and the same distance from St. Anthony and Rexburg.

Looking east from Sugar City, the peaks of the grand Teton's are obscured, excepting their highest crests, by a long low range of hills that reach in a long elevation to about 1,200 feet above the general level of the Snake river plains, and form a horn shape from the Teton range. They separate the main Snake river valley from the Teton basin and die out in a low backwash to the north between Canyon Creek and Haden on the stage line extending from St. Anthony to Victor and Jackson Hole. The "big hole" ridge is an anticlinal fold that is easily broken at its south exposure in the direction of the South Fork canyon, but its northerly termination seems to be less disturbed and to have a rather uniform structure. A cross section of this uplift from west to east will show a flat dipping series of rhyolite lava sheets that cover the entire easterly slope of the ridge and extend nearly to its crest, the aggregate thickness, as exposed by the Snake river canyon near Hedges hot springs.

A PECULIAR FORMATION.

Underlying this immense flow of pink lava and forming the actual crest of the ridge is a series of heavy beds of quartz sandstone and massive lenses of blue and gray cretaceous limestone of a very pure quality. Underlying the heavy beds of limestone of a lithological width of nearly a mile is a series of beds of fossiliferous shales and shale beds, with some intervening lenses of high grade lignite coal and overlying this series on the extreme easterly side of this uplift, is a remnant of the same shale that is exposed on the western slope, which is probably the eastern end of the anticline, and indicates that

the coal series was originally entirely capped with this immense rhyolite flow, and was only exposed along the crest of the uplift in a north and south direction, exposing the full width of the coal bearing series. This anticline has been accompanied by north and south fault lines that have broken the coal bearing formations into numerous blocks that range from half a mile to 10 miles in width, and tilted the series from their original horizontal position to a steep pitch varying from 10 to 50 degrees.

PRINCIPAL LOCATIONS.

The principal locations of this field are the Horse Shoe, the Brown Bear, the Boise and the Pack Saddle, each of which embraces 640 acres and represents an association of qualified coal holders.

NEEDS OF MARKET URGENT.

Adjoining the Boise claim to the northwest, the Pack Saddle company has recently commenced the development of a nine foot vein of clean coal, and has commenced to put a very good article of fuel on the market. Its property covers the same series of veins as the Horse Shoe, but a dozen of which have already been spotted by too many men, and consider it too steep. Men of broader experience, including the steep pitching veins of Pennsylvania, and other important fields whose deposits range from flat to vertical have a high opinion of this Teton field.

PERFECT CARBON.

Mr. T. W. C. Whyte, head fuel man of the Anaconda Copper Co., and one of the best practical coal mine valuers in the west, after a cursory examination of these properties, including a dozen average samples from the different veins, informed the writer that he had never met with as many veins of such size in the west that were cleaner and carried such uniform low ash moisture and sulphur contents, and he fully anticipated the development of an important basin of excellent steaming coal at this Teton field.

PERFECT CARBON.

These coals are free burning high grade bituminous quality that give a long, free, oily flame, and are especially adapted for locomotive steam use, and consequently for every other purpose of high grade bituminous coal. It is apparent from the number of seams that have been disclosed, that the series of veins averages with the top 40 ft. of this clean high grade fuel, which means that a resource of fully 10,000,000 tons of this rich fuel exist on these four properties within the comparatively shallow depth of 500 ft. below the surface in the several veins all of which can be made valuable by cross-cut drainage tunnels without the destruction of holing and pumicing, and the pitch of the veins guarantees a cheap and economical method of extraction.

RELIEVING FUEL FAMINE.

On the adjoining Brown Bear property to the north, the most important development of the field has been done. At this point the Brown Bear Coal company has tapped a vein five feet thick at a depth of 100 feet and has driven an entry on it at that horizon 800 feet. From this mine several thousand tons of coal have been extracted and sold to the local settlers, and the mine is play-

LOADING BINS, BROWN BEAR COAL CO.

shafts sunk into the blossom cropping and on the Horse Shoe claim a 10 foot vein has been developed by an entry started and driven in on the coal for a distance of 500 feet. This opening is now partly caved, but when it was first run in it exposed a continuous vein of clean lignite coal 10 inches thick with a band of white coal 10 inches wide, traversing the center of it.

THE GROUND IS HELD BY POSSESSION AND HAS BEEN DEVELOPED IN SEVERAL INSTANCES TO A POINT OF PREFERENCE RIGHT, WHEN THE LAND IS SURVEYED. IT IS STILL IN THIS LOCALITY UNSURVEYED GOVERNMENT LAND, AND IS OWNED BY THE GOVERNMENT, AND HAS BEEN PARTITIONED UNTIL THE PROPER PLAT IS FILED IN THE GOVERNMENT LAND OFFICE AT BLACKFOOT.

An application for the survey of this land has been made to the surveyor general and will probably be acted upon soon.

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This ground has been disclosed on these properties by one or less extensive surveys, and that portion which has not been partitioned until the proper plat is filed in the government land office at Blackfoot.

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