

The State of Wyoming.

Office of State Geologist,

Cheyenne.

1904
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GEOLOGICAL SURVEY OF WYOMING

Cheyenne, Wyo. July 15, 1904.

Dr. S. S. Cox,

Secy. Buckeye M. Enterprise Co.,

Lorain, Ohio.

Dear Sir:-

Complying with your request, I hand you brief report upon the property of the Buckeye Mining Enterprise Company on French Creek, Carbon County, this State.

Very truly yours,



State Geologist.

The State of Wyoming.

Office of State Geologist,

Cheyenne.

A BRIEF REPORT

ON

THE LORAIN GROUP,

CARBON COUNTY, WYOMING.

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LOCATION AND EXTENT.

The Lorain Group lies at the junction of Iron Creek and French Creek in Sections 11-12, T. 15 N., R. 80 W. in Carbon County, Wyoming, about 30 miles east of Encampment, in Carbon County and 45 miles southwest of Laramie, Albany County, and in the Medicine Bow Range of Mountains of Southern Wyoming.

The group consists of four claims, as follows:-

The Lorain No. 1.

" " " 2.

" " " 3.

" " " 4.

Each claim is 600' X 1500feet, comprising about 81 acres of land held by location and discovery under the laws of the United States and the State of Wyoming.

OWNERS.

The Lorain Group is owned by the Buckeye Mining Enterprise Company of Lorain, Ohio and Saratoga, Wyoming, incorporated under the laws of the State of Wyoming for \$1,000,000.00 divided into 1,000,000 shares, par value \$1.00 each.

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FORMATION.

The general formation of the Medicine Bow Range is granite and schist, with occasional dykes of diorite and allied rocks.

The schist usually occurs in huge ledges or bands of varying width and composition, a mica schist being usual, with some graphite schist and other varieties in other localities.

THE LORAIN GROUP.

This group shows one of these large schist leads, heavily impregnated with iron in its various forms.

This ledge or lead shows for a considerable distance along Iron Creek and surface work has been done on it, but no work extensive enough or deep enough to determine its real character has been completed.

In the Medicine Bow Country the copper ores have been found underneath a surface capping of oxidized iron and this surface condition is noted in the French ^{or Iron} Creek leads, though the underlying condition has never been fully determined, as above noted; Copper in varying quantity has been noted in these leads in the usual oxidized or carbonate forms.

On the Lorain Group, the usual red or yellow iron oxides are found on the surface and in the short tunnel which has partially crosscut the lead at this point some iron sulphides have been found in a black graphite schist carrying quartz in varying quantity.

This iron sulphide is usually a pyrrhotite often showing a green and blue tarnish sometimes mistaken for copper, but no copper minerals were noted in the Lorain workings.

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It is recommended that this tunnel be driven ahead through the lead and the sinking be done on the most promising showing obtainable by this method. In any case the work should be done on the ore until commercial quantities are opened up.

In view of the activity in this region and on these iron dykes or leads, it is recommended that at least sufficient work be done on this showing to admit of patenting the four claims during the present year and that the contract for doing the work be let at once.

The claims are heavily timbered with a fine body of pine timber and are so situated that any discovery in this locality will make them valuable.

The creeks at the claims furnish abundant water for all purposes either steam or power and there is ample ground in the immediate vicinity for all works that may be required.

It is considered this showing fully warrants the continuance of the work as above indicated and the group should be patented without delay. Recommendations for further development will depend upon the showings made by the proposed new work.

Respectfully Submitted,



State Geologist.

Date of Examination,

July 12, 1904.