

The State of Wyoming.
Office of State Geologist,
Cheyenne.

A BRIEF REPORT

on

THE AK-SAR-BEN GROUP.

CARBON COUNTY.

WYOMING.

1906
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GEOLOGICAL SURVEY OF WYOMING

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LOCATION.

The AK-SAR-BEN GROUP is situated near the head of Iron Creek, a small tributary of French Creek, on the western slope of the Medicine Bow Range of mountains, in Section 15 and 14, T. 14 N., R. 80 W., near the eastern line of Carbon County, in southern Wyoming, and about twenty five miles east of the town of Encampment, to which ^{point} the Saratoga and Encampment Railroad is now building from Walcott Station on the main line of the Union Pacific Railroad.

EXTENT.

This group consists of nine claims lying as shown on map of the group from survey by Robt. S. McCoy, U.S. Dep. Min. Sur. of Encampment, Wyo. and are as follows;

The Boulder Claim,

" Bullion No. 1,

" Bullion No. 2,

" Bullion No. 3,

" Bullion No. 4,

" Bullion No. 5,

" Bullion,

" Jasper,

" Iron Mine.

These are full claims, 600 feet by 1500 feet and comprise about one hundred and eighty acres of land, giving all necessary sites for buildings etc. and covering valuable timber and water facilities.

TITLE.

The above claims are held by location and discovery under the laws of the United States and the State of Wyoming, by the AK-SAR-BEN COPPER COMPANY of Encampment, Wyoming. It is recommended that proper steps be taken to patent these claims as soon as possible and thus preclude any possible contest of title.

The AK-SAR-BEN COPPER COMPANY is incorporated under the laws of the State of Wyoming for \$1,000,000.00, divided into 1,000,000 shares of a par value of \$1.00 each.

GENERAL GEOLOGY.

In general, the geology of the Medicine Bow Range may be said to consist of a core of granite, with bands of schists and quartzites of varying size, extent, dip and trend or direction, and the whole overlaid towards the North Platte Valley by the limestones of the Carboniferous Period and the succeeding sedimentary formations.

IRON CREEK.

At this point the formation consists principally of schist and quartzite, both much altered and changed, both in appearance and composition; the schist has been replaced to a large extent by silica and shows a hard, silicious outcrop at many exposed places, especially on the BOULDER claim of this group, and the quartzite is usually much stained by the various iron oxides.

IRON LEDGE.

This is the name locally applied to the huge outcrops of hard oxidized iron material found lying between the schist and quartzite

above described at this point.

It consists of a silicious oxide of iron, very hard where exposed to the weathered, as on the upper or eastern end, and soft where covered by the surface wash, as on the western end of the AK-SAR-BEN GROUP and the RAVIN GROUP adjoining on the west.

The general trend or direction of this ledge is north-east and south west and it has been traced by its outcrops for a distance of about two miles, the width showing from about thirty feet to seventy feet at the surface; it lies conformably with the formation of the district.

THE AK-SAR-BEN GROUP.

As above noted, the principal showing is on the BOULDER CLAIM of this group, near the eastern end of the property. At this point there is a huge outcrop of the ledge, which here shows a great width and the general characteristic features noted on these "Iron Caps" which usually overlie copper deposits.

A shaft has been sunk to a depth of thirty-five feet and shows the usual red and black hematites, together with soft brown and yellow limonite and some quartz in the material taken out of the shaft.

This material shows the strongest evidence of the leaching action of the surface waters and presents the same appearance as the cappings of the Rambler mine of this District, as well as that of the Deane-Rambler and Ferris-Haggarty Mines of the Sierra Madre Range, west of the North Platte River in Carbon County.

On the south-western end of this group a shaft has been sunk to a depth of eighty feet, with cross-cuts showing a width of seventy-two feet across the vein. This latter work showed a hard outcrop (where exposed) which gave place to a softer condition as depth was gained and

80
72
33
187

the schist showed well stained with iron oxides; considerable manganese and graphite showed in the ledge matter and continued to the present depth of the shaft.

South of the AK-SAR-BEN GROUP an shaft was sunk on the Ravin group which showed similar conditions and some copper glance is reported from a crosscut run from this shaft, occurring in the ledge matter near the contact. A first class plant, with hoist, boilers and air-compressor etc. has been purchased and installed to push this shaft to the permanent ores below.

FOR DEVELOPMENT WORK.

It is recommended that the present shaft of the BOULDER claim be made of working size and a suitable plant be purchased and erected at once at this point, in order that the shaft may be pushed downward with all possible speed.

This plant should be placed before the winter weather sets in and proper houses erected and the camp fully prepared for an active winters campaign, as the winter is the best season for work in this district and all surface or outside work should be completed before it begins.

The Ravin Company have completed a good road from the main wagon road from Encampment to their shaft house near the end of the AK-SAR-BEN claims and it is only necessary to build a road on your own claims to place the machinery.

This plant should consist of the following machinery and it is possible that a good second hand plant can be picked up and installed at a considerable saving in time and money.

1-60 H.P. Steam Boiler.

1- 25 H.P. steam hoist.

1- Air Compressor of approved make

together with air-drills, necessary tools, pipe, fittings and a good sinking pump complete with appliances for handling the mine water.

Such a [~]plant properly housed and installed before cold weather sets in will be the most practical and economical method of developing the showings of this group.

TIMBER AND WATER.

The entire surface of the AK-SAR-BEN GROUP is covered with a thick growth of fine pine timber suitable for all purposes, and varying from small trees up to trees eighteen and twenty inches in diameter. With due care in felling and using this valuable asset, there is no reason why this timber should not be used for years to come and furnish a constant supply as needed.

Water for all present purposes may be had from the small creek on the claims and by means of a small pump, can be put into the shaft house and cabins as needed. This will be sufficient for the work above advised but for a plant to treat the ores, opened up, French Creek would be the natural site and is ample for all purposes.

GENERAL CONDITIONS.

The General mining conditions in the French Creek district have been much improved during the past year, roads have been built, more work is going on and the deposits are being further opened up and understood and the showings already made tend to prove the first theories as to these surface showings were correct and that these ledges do contain the copper ores claimed.

The development of the Copper ores of the Grand Encampment District for the past six years has demonstrated the existence of these ~~the~~ ores in commercial quantity with depth, and improvements now under way in

transportation and treatment , such as the building of the Saratoga and Encampment Railroad, the further extension of the Laramie and Hahn's Peak R.R. to Centennial and the rebuilding of the Penn-Wyo Copper Co. concentrator at Encampment on a better plan and larger scale to treat custom ores at market rates, all tend to make the opening up of new properties a more reasonable proposition.

The "IRON CAP" is accepted as the best and most reliable surface guide to these deep ore bodies below and every successful mine of the district has been opened up under the iron cap but few (if any) have shown as extensive croppings as are noted on the iron ledge.

Surface showings of copper are small but copper is found on and in this ledge and these showings full warrant the expenditure necessary to open them up and make them producers of commercial copper ores.

Respectfully Submitted,



State Geologist.

Date of Examination,

July 11th, 1906.

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