

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

A BRIEF REPORT.

on

THE MCGOWAN -LE CLAIRE GROUP,
near
Willow Creek, Fremont County, Wyoming.

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SITUATION.

This group is situated in Sections 3 and 4, T. 6 N., R. 3 E., Wind River Meridian, in what was formerly a part of the Shoshone or Wind River Indian Reservation, opened for mineral entry October 15th, 1906.

Willow Creek Basin, where this group lies, is eighteen miles in an air line south-west of Thermopolis, in north-eastern Fremont County, Wyoming, and about fifteen miles west of the Big Horn River, on the eastern end of the Owl Creek Mountains.

A good wagon road leads from the Basin to Thermopolis, via Red Canon, the distance being about 24 miles by this route, and connection made with the old Lander Stage road for Lander, 65 miles, and Shoshoni, 35 miles, on the Chicago and Northwestern R. R.

The Burlington Route is completed to within twelve miles of Thermopolis, and will undoubtedly be built to the latter place by the spring of 1908.

EXTENT.

This group consists of two claims, namely,

The Hawley Lode,

The Midthun Lode.

These are given as full claims, each 600 feet x 1500 feet,

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The usual surface showings are usually a quartz stained with the oxidised form of iron and copper, and in some instances, the sulphides of both copper and iron are noted.

THE MCGOWAN-LE CLAIRE GROUP.

This group is located on a promising outcrop of quartz ledges, extending east and west and heavily stained with iron oxides and showing some copper on the surface.

Here there are a number of parallel quartz veins, varying in width from a small stringer to a vein several feet in width, and all showing more or less mineralization at the surface.

No work has been done here except location work but this showed up a promising condition that should be extensively prospected and developed at the most promising point.

A number of open cuts and shafts should be sunk along the length of these claims where ever the outcrop indicates a promising showing and the results carefully considered before locating the first deep work.

It is recommended that this work follow the ore and at convenient depth that cross cuts be run across the formation to determine the existence of parallel ore bodies or veins and that drifts be run on the vein, wherever encountered.

It is considered that these surface showings fully warrant the fullest prospecting and later, development to a considerable depth and further, that the indications here noted are promising for both gold and copper values with depth.

comprising about 40 acres of land, held by location and discovery, under the laws of the United States and the State of Wyoming.

OWL CREEK RANGE

This range is part of the most prominent ranges of North Western Wyoming and is practically virgin territory, extending from the Big Horn River north-westerly to the Yellowstone National Park.

The eastern extension of this range, known as Copper Mountain, extends east of the Big Horn River for about twenty-five miles and here a number of promising gold and copper properties are being opened up, notably the Williams-Luman Mine at DePass, which is showing up a wonderful body of copper and gold ore.

Mineral conditions in Copper Mountain are similar to those noted in Willow Creek Basin and vicinity, and the more developed properties of the former locality should be well studied by those interested in the Owl Creek Range mines.

GENERAL GEOLOGY

The country rock of the Owl Creek Mountains is granite, cut by dykes of diorites, bands of schist and similar rocks, and with the Cambrian conglomerates, Carboniferous limestones and succeeding sedimentary formation lying on either side of the range.

In the Willow Creek District, the dykes of diorite and schist ledges show a great deal of alteration and change, and there are a number of ledges of quartz included in and running with these dykes, the general trend being easterly and westerly, and a vertical dip.

TIMBER AND WATER

There is no timber on this group, but some may be had in quantity west of the Willow Creek vicinity.

Water is furnished by Willow Creek, which crosses the property on the easterly end, and is sufficient for all immediate purposes.

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The showings on this group are considered to warrant the development in the manner outlined and the installation of a suitable plant to prospect and work the ground economically, the latter to be determined later by the nature of the work found to be most suitable for the conditions presented.

Respectfully Submitted,

Henry B. Decker

State Geologist.

Date of Examination
July 14th, 1907.

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