

1906
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The State of Wyoming.
Office of State Geologist,
Cheyenne.

GEOLOGICAL SURVEY OF WYOMING

A BRIEF REPORT
ON
THE PORTLAND GROUP
NEAR
SHERMAN, ALBANY COUNTY, WYOMING.



SITUATION.

This group is located in Sections 10 and 16, Township 12 North, Range 11 West, being about six miles south of Sherman Station, on the Union Pacific Railroad, in southeastern Albany County, Wyoming.

EXTENT AND TITLE.

The group consists of four claims, each 600' x 1500', comprising about 81 acres of land, held by location and discovery under the laws of the United States and the State of Wyoming, as follows:-

The Portland No. 1 claim,	in Sect. 16,	T. 12 N.,	R. 71 W.	
" " 2 " "	" " 16			do
Lucasner "	1 "	" "	10	do
" " 2 "	" "	" "	10	do

as noted above, the Portland Nos. 1 and 2 claims are located on school section (16) and are therefore held under the regulations of the State Board of Land Commissioners of Wyoming.

These claims are held by August Popp et al, whose post office address is Virginia Dale, Colorado.

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GENERAL GEOLOGY.

These claims are situated near the southern end of the Laramie Hills, which extend north and south along the Albany-Laramie County line from a point near the Colorado-Wyoming State line.

These form a series of low mountains, well watered and timbered, and composed principally of granite of a reddish felsitic variety and showing the different sedimentary formations lying on either side.

This granite is cut at varying intervals and in many localities by dikes and bands of diorite, gneiss and schists of varying size, direction and extent and frequently showing a crushed and broken condition of both the dikes and granite rocks.

Throughout this range mineral deposits have been opened up and in each case, have been shown to be intimately connected with this fractured and fissured condition. These ores are usually copper ores, carrying some gold and silver, and occur uniformly in ledges or veins, with a surface outcrop or showing of oxidized or "rusty" iron, overlying the copper ores and which extends to a varying depth.

THE PORTLAND GROUP.

This group is divided into two parts, as noted in description of location and both are located on ^{iron capped} ~~iron~~ ledges showing copper, but the showing on the "Portland" claim on Section 26 is considered the best and most promising.

At this point the topography of the ground shows low hills of granite rising above the bluffs of the north and east side of Dale Creek, the principal water course of this vicinity, with shallow valleys and gulches sloping at varying angles and directions on either side.

The claims cover the slopes of one of these granite hills, extending northwesterly and southeasterly along the course of a ledge of oxidised iron showing copper stains and some copper sulphide ores in the shallow prospect holes already sunk on it.

These holes show a promising ore condition, having a granite wall on the southern side and a diorite wall on the northerly side, with a ledge of matter between showing from eight to ten feet of quartz and oxidised iron at the surface.

In this surface material, which outcrops along the claim for several hundred feet, before being covered by the decomposed granite wash and soil of this region, are noted stains of green and blue copper carbonates (malachite and azurite) and as unaltered boulders in it, are found iron and copper sulphide ores, and these show the character of the ores to be encountered below.

As this is but a prospect and only surface showings are now made, no samples for assay were taken for the reason that surface assays may or may not be high, and bear no relation to the unaltered commercial ores below.

DEVELOPMENT.

It is recommended that all expenditures and development be confined to the "Portland" claim for the present, and that a shaft be sunk on the ledge at the place of the present surface works, this shaft to be a two compartment prospect shaft, substantially timbered and to follow the dip of the ore, keeping the ore in sight in the shaft, in order that the work may show the exact ore conditions at all times, without recourse to crosscuts and drifts.

These latter may be made after sufficient depth has been reached but for the present all work should be confined to the shaft.

The position of the shaft location and ledge is such that in later years tunnel propositions from Dale Creek Canon may be profitably considered for drainage and pumping expense saving, but the thing now is to economically prove the ore and let these questions be solved later.

EQUIPMENT.

It is recommended that a plant of sufficient size and capacity to rapidly push this work be erected and installed at the point above indicated.

This plant should consist of the following:—

1- 35 H.P. Hoist of approved make.

1-40 H.P. Boiler " " "

1- No. 7 Cameron sinking pump.

Equipment for shaft, mine cable, buckets etc.

Supply of mining tools.

Supply of fittings, necessary pipe etc.

Supply of carpenter and smithing tools, forge, etc.

All this to be properly housed and placed in a substantial manner, and as rapidly as possible, in order that all surface work, buildings etc. may be completed before winter sets in, at which time the underground work may be more economically carried on than at any other time.

COST.

To properly carry out this work it is estimated that \$50,000.00 will be necessary, of which \$25,000.00 should be devoted strictly to underground development in the shaft and the remaining \$25,000.00 for the necessary plant, buildings and equipment and as a reserve fund against contingencies that may arise.

TIMBER, WATER AND ROADS.

There is some pine timber on these claims and timber may be laid down at Sherman Station by the carload at reasonable rates from Cheyenne or Laramie yards. The wagon roads of this vicinity are first class and open the year round (as the granite gravel makes the best of road beds) \equiv by keeping to the ridge roads during snowy weather. Roads to this property are already in use and will need but little work or repairs to admit of hauling in heavy machinery or heavy ore loads out to the railroad.

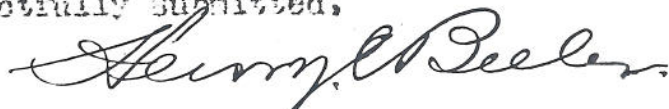
Water in this locality is obtained from creeks and springs and obtainable at any point. The principal water course is Dale Creek, previously noted, and in case of extensive works this supply would be used but at present the smaller spring creeks are sufficient.

THE BUCANDER CLAIMS.

These claims present similar conditions to those previously described and are considered worthy to be held in reserve for future development when it becomes advantageous to do so, but at present it is considered to be better business policy to confine the work as before noted to the Portland Claims and showings.

These claims are considered good prospects for development and to warrant the expenditure necessary to fully open up and prove their showings.

Respectfully Submitted,



State Geologist.

Date of Examination,
May 31, 1906.

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