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GEOLOGICAL SURVEY OF WYOMING

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

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SITUATION

This group is located in Section 10, Township 13, North, Range 71 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 two claims, each 600' X 1500', comprising about 40 acres of land, held by location and discovery under the laws of the United States and the State of Wyoming, as follows:-

Bucaneer No.1 Claim in Sec. 10, T. 13 N., R. 71 W.
" " 2 " " " 10, do

These claims are held by August Bopp et al, whose post office address is Cheyenne, Wyoming.

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 feldsitic variety and showing the different sedimentary formations lying on either side.

This granite is cut at varying intervals and in many localities

by dykes and bands of diorite, gneiss and schists of varying size, direction and extent and frequently showing a crushed and broken condition of both the dykes and granite rocks.

Thruout 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, with a surface outcrop or showing of oxidized or "rusty" iron, overlying the copper ores and which extends to a varying depth.

THE BUCANEER GROUP.

At this point the topography shows low hills of granite rising above the bluffs of Dale Creek, the principal water course of this locality, which flows about a mile south and west of this property, and all the gulches and shallow valleys, formed by these hills, slope towards the creek.

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

These holes show a promising ore condition, having x granite walls, with ≠ ledge matter between, showing about eight feet of quartz and oxidized iron at the surface.

This surface material outcrops along the claim at various points for several hundred feet, but is mostly covered by the decomposed granite wash and soil of this region. Here are noted stains of green and blue copper carbonates (malachite and azurite) and some unaltered boulders of iron and copper sulphide ores are found, and these show the character of the ores to be encountered below.

At a point on the Buccaneer No. 1 Claim, a shaft has been sunk to a depth said to be 35 feet deep, but is now caved and could not be measured, but material on this dump is as above described and promising.

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 this point for the present, and that this shaft be cleared out, timbered and sunk on the ledge, the 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 this shaft.

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- 60 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) 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 admits 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.

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

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Respectfully Submitted,

Henry D. Baker

State Geologist.

Date of Examination,
May 31, 1906.