

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

A BRIEF REPORT

on

THE HAMILTON GROUP

near

DEVILS GATE, CARBON COUNTY, WYOMING.

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SITUATION.

This Group is situated in Section 36, Tp. 14 N., R. 80 W., in the Eastern part of Carbon County, at the Carbon-Albany County line, about six miles south westerly from Keystone Post Office, and about twenty-three miles from Centennial, the present terminus of the Laramie, Hanna Peak and Pacific Railroad, but as the grading of this line is now going on at a point eight miles nearer the mine, than the present terminus, this condition is rapidly changing for the better.

An additional survey of this line runs within about three miles of the property, and with this line built, the question of all transportation would be solved.

EXTENT.

The Hamilton Group consists of three claims, namely,

The Hamilton Number 1 Lode,
The Hamilton Number 2 Lode,
The Hamilton Number 3 Lode.

Each of these claims is 600' X 1500 feet, comprising about sixty-one acres of land, held by location and discovery, under the laws of the United States and the State of Wyoming.

OWNERSHIP.

These claims are held as above by the Hamilton Mining Company,

incorporated under the laws of the State of Wyoming for \$500,000.00, divided into 500,000 shares of a par value of \$1.00 each.

GEOLOGY

The general formation of the Medicine Bow Mountains consists of a huge core of grey and red granites, cut by numerous dykes of diorite and schists and allied rocks, at irregular intervals.

In several instances, the grey granite is found to be of a dioritic character, and this variety ⁱⁿ the copper properties of the New Rambler and adjacent mines are noted.

THE HAMILTON GROUP.

This group is located along the strike of a huge ledge of altered diorite, lying in contact with the adjacent granite and with veins of quartz, lying at or near this contact.

This ledge may be traced for a distance of over two miles in length, and shows a heavily mineralized condition at many points along its course, where it has been opened up and certainly contains ^{bodies} ~~diorite~~ of commercial copper ore.

The general trend or direction of this ledge is easterly, and westerly, and most of the workings have been done on showings outcropping near the granite contact.

These consist, on this group, of surface cuts and shallow shaft, with a main shaft ninety-five feet deep, from which a crosscut has been run to the contact, above noted.

The surface here is usually heavily covered with a wash of loose decomposed granite, and outcrops are usually covered at this point.

In several of the shallow workings sunk thru this wash, a well mineralized quartz vein is shown, with the vein matter, heavily stained

by iron oxides and copper carbonates, but the full extent of the ledge has not been shown here in the surface works.

The main shaft has been sunk off or south of the outcropping quartz vein on the contact, and it is stated by the miners, who did the work, that this vein was cut by the shaft, but owing to water in the shaft, this could not be verified.

It is evident, however, that a sheet of ore exists west of the present shaft, and that a drift run along the contact should cut this ore and determine future work.

This can all be done without any additional machinery, as the present horse whim and tool equipment is complete and in good order for work.

It is recommended that this drift be run on the contact vein from bottom of main shaft and at convenient intervals, that crosscuts be run South from this drift to show up any parallel or adjacent sheets, that may exist and do not outcrop at that surface.

It is considered likely that these will be found in the diorite south of the contact, but to fully prove the contact, the granite should also be crosscut for a short distance at the same time, and the whole future location and works be determined by the showings here made.

TIMBER, WATER ETC.

The claims are well timbered and additional timber may be had for this group work from a section nearby set aside by agreement between the owners and other prospectors of this locality and the United States Forest Reserve officials, to replace timber cut out by mistake by Contractors.

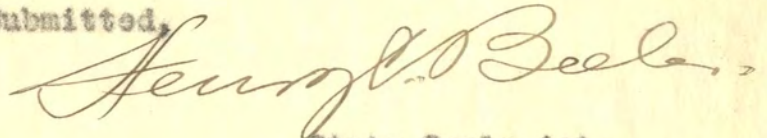
Water is furnished from branches of Devils Gate Creek, and is ample for all purposes.

There are cabins and accommodations for the miners a short distance from the main shaft, and the latter is well housed, and the whole plant ready for work at any time.

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It is considered that the Hamilton Group is a good prospect and that the showings made thereon fully justify the opening up of the property, with every indication that commercial bodies of ore will be cut by the workings.

Respectfully Submitted,



State Geologist.

Date of Examination,

September 24th, 1907.

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