

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

MR07-101

A B R I E F R E P O R T
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T H E M E C H A N I C G R O U P
N E A R
A T L A N T I C , F R E M O N T C O U N T Y , W Y O M I N G .

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SITUATION

This property is situated in the Atlantic mining district, about half a mile North-east from the town of Atlantic, in Fremont County, Wyoming.

Atlantic is distant thirty-five miles South-west of Lander, the present terminus of the Chicago & Northwestern Railroad, in Wyoming, and there is a good wagon road from Lander to Atlantic, and from Atlantic to the towns of Rock Springs and Rawlins, on the Union Pacific Railroad, distant about one hundred and twenty miles from Atlantic.

EXTENT AND TITLE

This property consists of two claims, namely,

The Mechanic Lode and

The Emerald Lode,

both full claims, each 600 X 1500 feet, comprising about forty-one acres of land, held by location and discovery by B. Holtum, and others of Cheyenne, Wyoming, comprising the Russell Mining Company of Cheyenne.

THE SOUTH PASS GOLD DISTRICT

This is the general name, by which this gold prospecting district is now known. Gold has been known and mined here for years, and

recently more attention has been devoted to copper, with some very encouraging results.

The District may be said to consist of an island of metamorphic schists, and in these schists have been found the gold and copper bearing rocks, which have made the district. This island is about thirty miles long and from ten to twelve miles wide, the longer axis bearing north-easterly and south-westerly, in the same general direction as the strike of the schists, and with the general dip to the North.

These schists vary in composition in different parts of the district, but may be said to consist mainly of horn-blende schist, and as a rule are very fine grained.

THE MECHANIC GROUP

This group has been located at the above point along the strike of a large mineralized ledge, lying in the schist, and a shaft sunk to a depth of forty feet, following the dip of the ledge.

This shaft shows the schist extensively altered and replaced by quartz, and the quartz very highly mineralized by sulphides of copper and iron, but at present there is no method of determining the width of the ledge, as the surface is mostly covered by a fine wash of decomposed schist, which has a depth varying from a few inches to several feet, and renders surface prospecting difficult.

At a point, about a thousand feet westerly from the shaft, there are also a number of prospect holes, which show a similar condition and more or less copper carbonates, staining the formation.

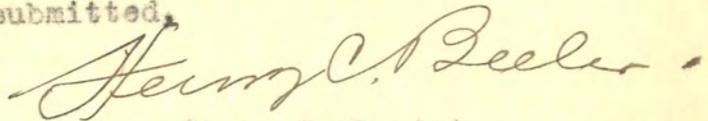
It is recommended that further work on this prospect be done, by sinking the present shaft, following the dip of the formation, and at a proper depth, say one hundred feet or so, that a cross-cut be run, to

determine the width of ledge, extent of mineralization, etc. This work can be done without any further plant, except perhaps a board shelter, over the shaft, and should be taken up at once.

It is considered that this prospect merits further development, and that the conditions, shown, warrant the belief that further development will show the usual ore conditions of this district, and it has been demonstrated, when the work is done on the ore and following the ore, in this district, that profitable ores can be opened up.

Until recently, no attention has been paid to copper in the mines of this locality, but recent discoveries have shown that a great deal of the mineral, carrying gold, is copper-iron sulphides, and this property should be worked with that idea in view.

Respectfully submitted,



State Geologist.

Date of Examination,
November 12th, 1907.

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