

MR 1905-57.

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

GEOLOGICAL SURVEY OF WYOMING

Cheyenne, Wyo. May 11, 1905.

The Maggie Murphy Copper Co.,
New Bedford, Mass.

Gentlemen:-

Herewith I hand you brief report on the showings made on the Maggie Murphy Group of Claims of your Company, near Douglas, Wyoming, and described in a preliminary report by this office May 31st 1904.

E X T E N T .

The Maggie Murphy Group now consists of eight full claims, namely:

The Maggie Murphy No. 1.
" " " " 2.
" " " " 3.
" " " " 4.
" " " " 5.
" " " " 6.
" " " " 7.
" " " " 8.

These claims lie as shown by the map of your company, are all full claims 600' X 1500' and comprise about 162 acres of land. The claims are favorably situated for economical development and are well timbered and watered.

L E D G E S .

The huge iron leads or ledges described in previous report as running through the length of the property have been further prospected

during the past year and show encouraging results as far as the development has gone.

D E V E L O P M E N T .

This work has consisted of a number of open cuts on the iron caps shown at various places on the group and at the main or largest outcrop on the No. 1 Claim, a cut has been run which shows ledge matter for a width of 48 feet and a shaft started on the west side wall of the ledge in a soft yellow limonite or oxide of iron, locally called "ash".

N E W S H A F T .

The shaft has been sunk to a depth of 34 feet in the ledge matter and has passed through the usual soft iron stained materials found in these iron ledges, and at the above depth has come into a body of pyrrhotite, a sulphide of iron usually found underlying the oxidized iron cap in this vicinity.

This material shows in common with the coarse grained white iron pyrites also found here and mixed with the oxidized iron minerals which still hold at the present depth.

Scattered throughout the pyrrhotite is noted small amounts of yellow pyrites of copper, ~~or~~ chalcocopyrite, a sulphide of copper and iron which shows in specks and streaks in the pyrrhotite mass, which also shows a white quartz coming in with the copper.

This is the condition noted in the report of May 31, 1904 as underlying these iron ledges of the North Laramie Peak vicinity and is in confirmation of the theory then advanced, "that these ledges are underlaid with copper ores" and justify the expenditure necessary to develop them.

All the work now being carried on in this district tends to further confirm the above theory and indicated as depth is gained in various portions of the district that there copper ores exist here and that they are of commercial value.

A cut has also been made on the No. 3 Claim, which shows conditions similar to the above and warrants further development as occasion arises, but it is recommended that work for the present be confined to the No. 1 shaft, and the other work taken up later.

EQUIPMENT .

To carry out this development, I would recommend that sinking be continued as rapidly as possible in the present No. 1 shaft following the ore and that the following plant be installed, properly housed and equipped.

- 1- 80 H.P. Erie Boiler and small Boiler pump.
- 1- 25 -35 H. P. Steam Hoist.
- 1- 4- 6 Drill Ingersoll-Sergeant Air Compressor.
- 2- B. Ingersoll-Sergeant Air Drills.
- 1- No. 5 Cameron Pump.

This plant, with the usual small items accompanying it, will be all that is necessary to fully prove the value of this property and should be installed at once.

PROBABLE COST .

To carry out this work it is estimated that a fund of \$30000.00 to \$35,000.00 would be necessary, as follows:

Sinking shaft	\$20,000.00 to \$25,000.00
Crosscuts and drifts	5,000.00
Machinery and supplies	6,000.00

This amount, properly expended, should be ample to prove the property, but of course mining costs etc. would depend upon the amount of water and quality and hardness of rock encountered with depth.

I would recommend that your Company consider putting in your own saw mill and cutting your own fuel and lumber required from the timber on your claims.

Also that an accurate survey be made of the property and the exact relation of the present outcrops and Horseshoe Creek shown in order that a tunnel from a point on No. 8 Claim on the Creek to connect with the present shaft, after it has developed the ore, may be considered in all its relations to the economical handling of the property.

I would further recommend that steps to patent the property be taken as soon as possible.

In connection with this work, this office will be glad to advise with the officers of the company and to aid its work in every way.

I consider that the work already done justifies the expenditure of the money necessary to develop this property and that there is every indication of profitable ore in this property.

Respectfully submitted;


State Geologist.

Date of examination

May 6, 1905.

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