

GEOLOGICAL SURVEY OF WYOMING

Cheyenne, Wyo. May 31, 1904.

Mr. A. B. See,

Douglas, Wyo.

Dear Sir:-

Complying with your request, I send you herewith brief reports on the *Harris* Mining Group of Clinton, West Lincoln, Park, Albany County, this State, and trust it may aid you in deciding on the propriety, which I believe justify warrants the expenditure necessary to develop the present showings.

Very truly yours,

*Henry C. Beeler,*  
State Geologist.

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Office of State Geologist,  
Cheyenne.

A BRIEF REPORT

ON

THE MAG IE MURPHY GROUP,  
ALBANY COUNTY, WYOMING.

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LOCATION AND EXTENT.

The Mag ie Murphy Group of Claims is situated in the S.W.1/4 of T. 26 N., R. 71 W. in the northeastern corner of Albany County, Wyoming, about six miles north of Laramie Peak and 36 miles south of the town of Douglas on the C. & N. W. R. R.

The group consists of five small claims, each 600 feet x 1500 feet, comprising about 100 acres, namely as follows:-

Mag ie Murphy No. 1.  
" " " 2.  
" " " 3.  
" " " 4.  
" " " 5.

OWNERS AND TITLE.

This Group is owned by A. D. Lee, G. W. Johnson, S. P. Lee and Fred Kelly of Douglas, Wyoming, and is held by location and discovery under the laws of the United States and the State of Wyoming.

FORMATION.

The general formation of the Laramie Hills may be briefly described as a huge core of granite, with bands of schist at intervals and dykes of diorite and other igneous rocks cutting both the granites

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8- and schists, with the succeeding sedimentary formations lying on either side and extending out to the level plains beyond the hills.

This granite is usually a reddish feldspathic variety and the schists usually fine grained mica and hornblende schists occurring in bands of varying width and direction.

It is noted that these formations are usually fairly regular and have a general northerly and southerly trend or direction; the dip varies but is usually toward the east at a slight angle.

LEDGES.

At several points in the Paria Peak region are noted large ledges or "dykes" of a highly mineralized material lying in the granite or schist formation and usually conformably with it. These are from ten to forty feet in width on the outcrop and have been but slightly developed.

MAGNETIC MURPHY GROUP.

This group has been located on a large ledge of this character which has been traced through the country for several miles and shows an exceptionally strong mineralization at this point.

In this vicinity the general formation is granite and the ledge is noted cutting through it in a northerly and southerly direction, showing the usual hard, siliceous, ore where exposed to the weather, but where it has been cut into, a softer condition is noted immediately under the hard weathered material.

This whole capping is composed of the different forms of red and yellow oxides of iron, with some small amounts of black and specular hematite, but usually the soft yellow ochreous or spongy form of limonite predominates, mixed with the persistent ledge matter of the lead.

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In these ledges are also bodies and stringers of quartz as a part of the ledge material and the whole is highly stained with the iron oxides above noted and some green and blue copper carbonates as stains at intervals.

This limonite ore is usually underlaid by masses of either white iron pyrites or a bronze colored pyrrhotite, (a sulphide of iron) and where work has been continued on this material <sup>it is noted as</sup> giving place to a quartz carrying yellow copper pyrites or chalcopyrite.

This is especially noted in the "Three Cripples" shaft of the National Copper Company on a similar lead a short distance north of this group, but none of the workings in this locality have been pushed deep enough to fully determine the value of the underlying materials, though there is every evidence that these heavy iron ledges are underlaid by iron-copper pyrites.

At a point on the Maggie Murphy No. 3 Claim, a ledge carrying a pyrrhotite similar to that of the "Three Cripples" has been uncovered and quantities of this material taken out. Associated with this pyrrhotite (which is about five feet wide at this point) is a stringer of quartz and a casing of iron oxides and ledge matter, though the whole width of the ledge has not been opened up.

On the Maggie Murphy No. 1, a shaft has been put down for a depth of 30 feet and showed the usual oxidized iron stained ledge matter under the hard weathered cap!

#### DEVELOPMENT.

The work now under way of cross cutting this lead on the surface will show the exact width and nature of the outcrop, and it is recommended

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that a shaft be sunk on the ledge, following the dip of the ledge, at the point or other the best or hanging wall that appears most suitable or desirable for sinking the shaft.

Sinking at this point is recommended for the reason that the mineralization here appears to be heaviest and the conditions for building a road to the work, for fuel, water, <sup>dump,</sup> etc. are most favorable and it is believed the property can here be proved for less money than at other points on the claim, which may be tried up later as may prove profitable.

EQUIPMENT.

To carry on this sinking in the most rapid and economical manner the following plant is recommended.

- 1 80 H.P. Erie Boiler and small boiler pump.
- 1 25 H.P. Hoist. (Davis)
- 1 4 Brill Ingersoll-Rand open air Compressor.
- 2 E. Ingersoll-Rand open air Drills.
- 1 No. 5 Cameron Pump and 1 Blacksmith outfit.

This equipment with the usual small items accompanying it, tool steel, cable, buckets etc. is sufficient for thorough, rapid and economical work when properly installed and handled.

The above plant would be sufficient for 300 to 350 feet in depth, unless a large flow of water was encountered, in which case a larger pump would be necessary, the size to be determined by circumstances.

FUEL, WATER ETC.

The claims are all well timbered, and all mine timbers, lumber etc. may be had for the cutting or from the saw mill three miles away at \$12.00 per M.

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Wood for fuel is abundant and costs from \$2.50 to \$3.00 per cord delivered at the mine.

Water for steam and other purposes may be had within reasonable distance of the proposed works and piped to the plant.

Mining supplies are to be had at the usual rates at Douglas, 38 miles away, with good roads and telephone systems now installed from neighboring mines reaches all centers of supply at once.

Trains/pairroads are available, the Chicago and Northwestern at Erin Junction, 25 miles, Douglas 38 miles on the Colorado and Southern 26 miles away at Glendo Station.

There is a great water power in Little Horsehoe Creek near the group that can be utilized for many purposes, should occasion demand it and prove immensely valuable for future works.

It is considered that the showings on this group fully warrant the expenditure of sufficient capital to develop the property to a depth that will *settle* beyond a reasonable doubt, the question of profitable ore bodies in these ledges, and these showings now indicate the existence of these bodies.

Respectfully Submitted,

*Henry A. Beeler.*  
State Geologist.

Date of Examination.

May 20, 1904.