

MR 1903-30

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The State of Wyoming
Office of State Geologist
Cheyenne

June 11th, 1903.

Mr S.G.Hopkins,
Secy. Lucky Gus Min. Co.
Wheatland, Wyo.

GEOLOGICAL SURVEY OF WYOMING

Dear Sir:-

Persuant to your request of the 8th inst, I hand you copy of brief report on the Lucky Gus Group of Mining Claims owned by your Company, and trust this may aid you in opening up the claims.

I consider that you have a good prospect in these claims and that the showings already made fully warrant your Company making further developments, as herein suggested.

Very Truly Yours,

State Geolgoist.

REPORT ON

THE LUCKY GUS PROSPECT.

~~MINES~~

Owned by THE LUCKY GUS MINING COMPANY.

Principal office, WHEATLAND, WYO.

Officers:

President, I. W. GRAY, Wheatland, Wyo.

Vice President, R. L. Smith, do.

Secretary,)
Treasurer,) S. G. Hopkins, do.

Location, About twelve miles west of Wheatland, in the Cooney Hills,
Cooney Hill Mining District, Laramie County, Wyoming.

Name and address of Superintendent, R. L. Smith, Wheatland, Wyo.

Number of lode Claims, Four, containing 80 acres.

Names of lode Claims, Lucky Gus,

Lucky Gus No. 1.

Lucky Gus No. 2.

~~Placer Claims,~~ Lucky Gus No. 3. acres.

~~Mill Sites,~~ acres.

Total number of acres in group, 80 acres.

Title, BY location and discovery under the laws of the United States and
the State of Wyoming.

~~Lien or encumbrance,~~

~~Title guaranteed by~~

Nearest railroad station, Wheatland on the C. & S.R.R. Distance, 12 miles,
in an easterly direction.

Reached by wagon road to Two-Bar Ranch and east across Wheatland flats to
Station.

Altitude at railroad station, 4700 feet above sea level.

Altitude at main workings, 5000 " " " "

Character of country rock, Reddish granite enclosing bands of schists.

Character of wall, The above granite as far as can be determined at the present
time.

Character of vein. The vein is one of a series of quartz and schist lenses lying in the granite and has a general easterly and westerly strike and a slight dip to the south. The outcrop shows along the surface of the hill for a distance of at least five hundred feet, being covered by the rocks and soil at intervals and here shows a width of about four to seven feet at the various places where holes have been put down. Two other main stringers are noted on this claim and show about the same conditions as the above vein but appear to have a general dip towards the main vein and it is believed these will be found to be connected when depth is reached and that other stringers of similar character will be developed as the work proceeds.

Character and occurrence of ore. The ores now noted consist of the usual oxidized form of iron and the carbonates of copper, both occurring as a stain in the quartz and schist and as solid ore in the vein matter.

Associated with these forms are noted the sulphides of both iron and copper, the latter showing in the forms of chalcocite or copper glance, as chalcopyrite or yellow sulphides of copper and as bornite or copper-iron sulphide; These ore do not occur solid throughout the vein matter but as bunches and streaks at intervals, and with these are found small amounts of native copper, but this latter is not considered important.

At the present depth the ores are mostly the oxidized forms and these may be expected to prevail until the level of permanent water is reached.

Development,	1 Shaft ,	65 feet, size, 4' x 7'
	Tunnel ,	feet, size,
	Cuts ,	about 35 feet, size,
	Drift ,	feet, size,
	Upraise ,	feet, size,
	Winze ,	feet, size,
	Stope ,	feet, size,
	Total development,	100 lineal feet.

Ventilation,

Exits and fire protection,

The development work has so far been confined to the above shaft and a few prospect holes sunk at different points on the leads and in nearly every case ore has been found.

In the main shaft the vein showed a width of about four feet at the surface and continued for some distance downwards, the shaft being sunk on the dip of the vein, but near the bottom the vein matter has been largely replaced by a mass or horse of barren rock and only about two feet of ore material now shows. This condition is common in these formations and may be considered as temporary and that the vein matter will come in as depth is gained.

The work in this shaft has been performed in a workmanlike manner and is in good shape to proceed.

It is recommended that this present shaft be further sunk on the dip of the vein to permanent water level and at that point crosscuts be run to the ledges now outcropping on each side to determine the condition of these ledges before permanent hoisting works are erected or other workings decided upon.

At the present time no figures as to the depth of this water may be given but it is believed that this work may be safely accomplished with a whim with satisfactory results.

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It is considered that the showings made in the above work fully warrant a continuance of the work as above suggested and that under the conditions developed, indicate a favorable outcome of this work.

The general conditions in the Wheatland vicinity are favorable for economic work and prices for all supplies etc are reasonable.

Respectfully Submitted,



State Geologist of Wyoming.

Date of Examination,

June 8th, 1903.