3 and
Sec 10, T 7 N, R 13 W

Copy from:

Professional Paper 78, 1913 A. D.

GEOLOGY AND ORE DEPOSITS OF PHILIPSBURG QUADRANGLE, MONTANA.

GOLD REEF MINE

THE Gold Reef Mine is situated on the east slope of the valley of South Boulder Creek at an elevation of about 6,700 feet. It is about 3 miles southwest of Princeton by trail and is connected by wagon road with Flint, (Maxville), a station on the Philipsburg branch of the Northern Pacific Railway, and with a mill on South Boulder Creek below the Mine. The Mine is opened by two tunnels, and the workings total about 1,500 feet, this figure includes 900 feet of drifting on the vein. The country rock is of the Spokane formation and consists of red sandstones and shales dipping steeply northwestward. Silicious sandstone predominates in the Mine. The average strike of the vein is S. 50° E., and at most places it dips steeply southwest. The maximum width is about two and one half feet, and the walls are well defined. It is a fissure filling consisting of Quartz and sulphides, and the silicious wall shows little or no replacement by ore. The Ore that has been mined is oxidized, and it contains Gold. The outcrop of the Vein carries less than the average amount of Gold, but good Ore was found within 20 feet of the surface. The Minerals of the oxidized ore are Quartz, Iron and copper oxides, and copper carbonates. Pyrite and subordinate chalcopyrite are encountered in the lower levels. The Ore contains small grains of Magnetite, and a little specular hematite was noted on the dump.

RECEIVED
FEB 24 1964

Huckleberry Claim, and veers around to the north, coming to an end on the Reliance Claim. At the end of the road a portal site is prepared for this Project. There are no production facilities.

(b) My interest has been the road and excavating on the property.

(c) According to statements made by an Old Timer, the Gold Reef Mining Co. worked the Mine from 1905 through 1907, then upon the death of the owner the business was thrown into Litigation and the Mine shut down. 800 ton of good ore was mined out and put through their Mill. I cannot supply settlement sheets.

(d) There are three (3) known good and workable parallel Veins striking lengthwise the Huckleberry and Mayflower Claims. These 3 Veins are Contacting a known, but un-explored Gold Quartz Vein which Strikes parallel with, and is shown on top the high ridge, or summit between South Boulder Creek and Swamp Creek. All three of the parallel Veins are cross-cut almost all the way to the Summit, and each of two Veins are 1 ft. wide at the outcrop. The other one is 3 ft. wide at the outcrop. They assay from 3/4 to 2.2 Ozs. Gold per ton. Vein structures in this immediate locality widen with depth, and also the values go up.

Then, there is one (1) known Vein Striking lengthwise with and on the Dawn and Reliance Claims. This Vein is also contacting and intersecting the Quartz Vein in the Summit, It is crosscut to the outcrop on the serface about every 200 ft., to the Divide Summit, and then the large Vein on top the Summit is crosscut in two (2) places some 300 ft. apart. A Vein of Gold bearing Quartz that is about eight (8) ft. wide is shown. This Vein is parallel with the Divide, which is Northwest-Southeast, and is Striking at a right angle to the other four (4) Veins, which are coming into it.

(e) Inclosed are two (2) copies from a U. S. Geological Survey made on the Property in 1913.

The Geology on the East side of the Summit on the Swamp Creek side is quite different from that on the West side. The East side is made up of TRUE Jefferson and Madison Limes, pushing up to the Quartz Vein in the center of the Summit.

(f) The Vein now showing in the Summit ridge is very convincing that a Vein of Ore exists to great depth. I sampled the bottom of a crosscut on top the Divide. The crosscut (trenched) is in Compass line with the Vein coming lengthwise the Reliance into it. In sampl-

ing, I took a good cut sample, taking everything as it came, across the estimated 8 ft. width. Assay copies are inclosed.

(g) All the Reports I have are inclosed. One Photostatic Map of the Property, showing extent of workings, is all I have. If the Government Assistance on this Project goes through I will have no need for these Reports, but if not, please return them.

4. Accessibility of Property:

(A) I will meet the OME Representative. He may call me, Phone No. 563-5339, Anaconda, and I will meet him and take him to the Mine. Starting at Maxville, which is 11 mi. north of Philipsburg. 6 mi. East to Princeton, half mi. East to right turn, marked Gold Reef. Continue to top of Divide, keep left, 2 and half mi. keep left again for half mi. to Property entrance, where there will be a left going up to the workings on the Dawn Claim. The straight ahead goes up the Bottoms to the Old Camp and Mill site on the Bell Cow Claim. The Buildings shown on the Map are completely rotted down. Mine is 6 mi. S. of Princeton.

(b) 12 mi. to Maxville, there is a loading Ramp on the Northern Pacific Rail. Anaconda, and Anaconda Co. Smelter, Ore buying Station is 53 mi. from the Mine. A. S. and R. Smelter at East Helena, is 132 miles from the Mine. City of Butte is 77 mi. from the Mine, a source of Supplies, as well as Anaconda.

5. Exploration Work:

(a) I propose driving a 900 ft. Drift to a CONTACT Vein, a Northwest--Southeast Dyke, with 4 known East-West Fissure Veins Intersecting it. This Dyke is Gold Bearing, and is Unexplored, except by surface crosscuts to the outcrop. Starting the Portal at a Point which is 100 ft. North of an old Discovery Tunnel, which is located, center West portion of the Reliance Claim. The Drift will follow a 30 inch Vein of Gold Ore which is Striking South 76°, East 26 ft. The Drift will intersect the Divide Vein (Dyke) at about 800 ft. below the surface of the Divide, giving a good quantity of Stoping Ground, and a 2 way Drift. Plainly speaking, I want to continue where the Gold Reef Co. left off. I sincerely believe they had this Divide Vein in mind as the Destination, hence the Claim name, Reliance, and they open cut to the Outcrop, all the way to and including the Divide Vein.

The Drift will be 5 1/2 ft. wide, by 8 ft. to accomodate a Mucking Machine, cars, etc., and will be run in on a slight water grade.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
So. 157 Howard Street
Spokane, Washington 99204
January 21, 1964

Mr. Larry A. McLane
212 Washington Street
Anaconda, Montana

Dear Mr. McLane:

The enclosed literature describes in detail the financial assistance available from the Office of Minerals Exploration.

Briefly stated, the Office of Minerals Exploration offers financial assistance to firms and individuals who would like to explore their properties or claims for one or more of the mineral commodities listed in the OME regulations. This help is offered to applicants who ordinarily would not undertake the exploration under present conditions or circumstances at their sole expense and who are unable to obtain funds from commercial sources on reasonable terms.

The Government will contract with an eligible applicant to pay up to one-half of the cost of approved exploration work as it progresses. The applicant pays the rest of the cost, but his own time spent on the work and charges for the use of equipment which he owns may be applied toward his share of the cost.

Funds contributed by the Government are repaid by a royalty on production from the property. If nothing is produced, there is no obligation to repay. A five percent royalty is paid on any production during the period the contract is in effect; and if the Government certifies that production may be possible from the property, the royalty obligation continues until the Government's contribution is repaid with interest, or for the ten-year period usually specified in the contract. The royalty payment applies to both principal and interest, but it never exceeds five percent.

Further information and application forms* may be obtained from the Office of Minerals Exploration, Washington 25, D. C., or from the Regional Office serving the area in which the property is located.

*MME Form 40 enclosed
(in triplicate)

Enclosure(s)

Sincerely yours,

D. R. MacLaren
Acting Field Officer, OME
Region I

212 Washington St.
Anaconda, Montana.
January 20, 1964.

OFFICE OF MINERALS EXPLORATION
So. 157 Howard Street
Spokane 4, Washington.

Field Officer, OME
Region I

Dear Sir:

I wish to secure Government assistance to put the following five Patented Mining Claims (grouped) into operation. I am the sole owner of the Property. Deed recorded in Book 38 of Deeds, Page 523, all in township 7 North, Range 13 West, Boulder Mining District, Granite County, Montana.

I would like to get some of the paper-work done up so that as soon as your Geologist can go over the property this spring we can lessen the time.

Please mail me the necessary forms etc. to be filled out.

Sincerely,

Larry A. McLane

Larry A. McLane

LARRY A. MCLANE
212 WASHINGTON
ANACONDA MONT

RECEIVED
JAN 21 1964

M

So. 157 Howard Street
Spokane 4, Washington
September 19, 1962

Mr. Larry A. McLane
212 Washington Street
Anaconda, Montana

Dear Mr. McLane:

Enclosed are Title 30--"Mineral Resources," and a booklet, "Exploration Assistance." These two items will explain the purpose, scope, limitations, and operation of the OME program. Also enclosed are three copies of MME Form 40--Application for Financial Assistance in Minerals Exploration. Copper, lead, and zinc were removed from the list of eligible minerals last July.

You state that the ore is gold and silver in the oxidized zone and copper, gold, and silver in the sulfide zone and that you wish to drive a 100-foot drift through the oxidized zone into the sulfide ore. You will note in Title 30, item 301.7, that one of the considerations weighed in passing upon applications is the geologic probability of a significant discovery being made. If the material in the sulfide zone would be predominantly a copper ore, it would not be eligible for OME aid. While the oxide zone might be considered as containing a predominantly gold-silver ore body, it is doubtful that it would be sufficiently significant to carry the cost of a $6000 road repair project plus the cost of driving a 100-foot tunnel.

If, after considering the above remarks and carefully reading the Title 30 and the booklet, you believe that you can qualify for OME aid, you should submit two copies of an application using the MME Form 40--the third copy of the form is for your files. Fill out the appropriate spaces on the front of each form, dating and signing the certification at the bottom. Then, using as many sheets of paper as necessary, give, item by item, as much as you can of the information requested on the back of the form. Particular care should be taken in preparing the information requested in item 7--Estimate of Costs.

The time required to process an application will vary from about 60 to 90 days, depending upon the thoroughness of its preparation and, of course, the season of the year. An incomplete application may cause unnecessary delay, as it will result in letters requesting additional information and/or clarification.

Sincerely yours,

D. R. MacLaren
Acting Field Officer, OME
Region I

Enclosures

DRMacLaren:ray
cc: OME

Reading copies to: Holman, McKelvey

212 Washington St.,
Anaconda, Mont.
Sept. 12, 1962.

OME.
South 157 Howard St.,
Spokane 4, Wash.-

RECEIVED
Air mail
SEP 14 1962
U S G. S.
SPOKANE, WASH.

Dear Sir:-
I wish to apply for Government assistance to put the Gold Reef mine in Operation.
The Gold Reef is, namely, the following five grouped Patent Claims: Dawn, Reliance, Mayflower, Huckleberry and Bell-Cow. Survey nos. 7097, 7098, 7099, 7100, 7101. Located in T. 7 N. R. 11 W. Granite County Montana.
I am the sole owner and have a Clear title.
The Matrix is gold + Silver in the Oxidized zone and Copper, gold

and silver in the sulfide zone, which varies in dept.

My desire is to repair the road leading in + out, a job of about $6000. Which I would have at least three bids on.

and to excavate for, and drive a one hundred foot drift, in ore from the start, into the ~~oxidy~~ sulfide ore.

I would like to do the preparatory work at the mine before bad weather sets in, so would you please inform me how long it takes to secure a loan.

I will welcome a Government Geologist at the earliest possible time.

Sincerely,

Larry A. McLane