

REPORT ON GEOLOGICAL SURVEY OF WYOMING

THE BONITA PROSPECT. MINE.

Owned by M.H. McKusick, R.B. Price, and G.B. Lehy.

Principal office, No. 116 North Lincoln Street, Chicago, Ills.

Officers:

President, \_\_\_\_\_

Vice President, \_\_\_\_\_

Secretary, \_\_\_\_\_

Treasurer, \_\_\_\_\_

Location, Part of Sections 25 and 36, T.15 N. R.85 W.

Upper Platte Mining District, Carbon County, Wyoming.

Name and address of Superintendent, Robert Thomas, Encampment, Wyoming is in charge of property.

Number of lode Claims, Five, containing about 100 acres.

Names of lode Claims, Bonita Nos, 1, 2, 3, 4 and 5.

Placer Claims, None Located. \_\_\_\_\_ acres.

Mill Sites, Located on Otto creek, containing about 20 acres.

Total number of acres in group, about 120 acres.

Title, By Location and discovery and location work has been done on each claim.

Lien or encumbrance, None filed.

Title guaranteed by Not insured.

Nearest railroad station Walcott on U.P.R.R. Distance, 37 miles, in a north easterly direction.

Reached by wagon road from Walcott via Saratoga to divide between Spring creek and Cow Creek, follow divide to Jones and Williams ranch, then to Charter Oak mine and thence south to Bonita group, 2 miles.

Altitude at railroad station, about 7000 feet above sea level.

Altitude at main workings, 8800

Character of country rock Micaceous schist and red granite.

Character of walls, Not definitely determined but probably a quartz diorite and quartzite on ledge at top of hill on Bonita No. 4.

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The property is a prospect and practically no development work has been done thereon, the work being represented by two shafts, 14 feet and 30 feet deep respectively and other smaller holes at various points on the claims.

No defined vein has been opened up on the property but several good outcrops have been found and should be developed, or at least some further work done to test their value.

The 30 foot inclined shaft has followed a small, stringer of quartz carrying quantities of iron oxides, limonite and hematite in its various forms and small values in gold. This streak varies in thickness from 2" to 8" and shows filling cavities in the disturbed granite but is of little importance at the present time.

On the south side of the high hill on which the claims lie, on the Bonita No. 3, a small cut shows some malachite or green carbonate of copper staining the contact of the quartzite at that point and the diorite that shows in a much broken and disturbed condition, indicating a local disturbance of considerable extent that should be further prospected before permanent work is decided upon at other points.

The formation on the top of the hill on the Bonita No. 4 is considered the most favorable for copper as it shows ~~the~~ conditions similar to those noted at points where profitable properties have been developed. The lead on this claim shows a heavily mineralized quartzose material, the mineralization being iron oxides and showing some small traces of copper; this lead has a general easterly and westerly direction but not enough work has been done to show its position and extent or relation to the surrounding formations.

It is proposed to develop this lead by a tunnel, either a crosscut tunnel from a point about 100 feet north of the present side line of the Bonita No. 5 claim which would have a general south westerly course, would not cut the formation directly across its strike but <sup>at</sup> an angle across it and give an estimated depth of about 300 feet and a length of about 700 feet, or a tunnel from the eastern side of the hill along the strike of the formation which would give the same depth and would be longer

than the cross cut tunnel but would have the advantage of being directly on the course of the lead and in any ore that would be found; after the prospect tunnel had reached a suitable depth crosscut at intervals would determine the other contacts at comparatively slight expense.

Before either of these suggestions are acted upon it is advised that an accurate survey of the tunnel sites be made to show the exact lengths and depth to be gained and further that considerable surface work, such as cuts across the supposed course of the lead, be done to determine its course and extent and prevent any useless work.

The topographical conditions are about the same for each tunnel site and roads may be made to each with equal facility. Water sufficient for steam purposes may readily be developed in places accessible to each site. Timbers will have to be procured elsewhere but may readily be obtained in the local markets at reasonable rates.

It is estimated that a prospect tunnel could be run by contract at a price of from \$6.00 to \$8.00 per foot and by putting in a compressed and using air drills, this could be lowered.

As before stated the Bonita group is a prospect as yet but with intelligent development has fair chances of profitable returns.

Respectfully Submitted,



State Geologist of Wyoming.

Date of Examination,

August 7th, 1901.