

FROM OFFICE.

## REPORT ON GEOLOGICAL SURVEY OF WYOMING

THE BUELAH PROSPECT MINE.

Owned by The Buelah Copper Company.

Principal office, No. 48 Congress Street, Boston, Mass..

Officers:

President, F.S.Morrison, 48 Congress St., Boston, Mass.

Vice President,

Secretary, D.S.Pratt, Boston, Mass.

Treasurer, Arthur B.French, Boston, Mass.

Location, One mile north of Battle, Wyo.

Battle Lake Mining District, Carbon County, Wyoming.

Name and address of Superintendent, J.F.Ledbetter, Battle, Wyo.

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

Names of lode Claims, Buelah Nos. 1, & 2; Buelah Annex; Souvenir and Hindical-  
or.

Placer Claims, None located. acres.

Mill Sites, On Cow creek, containing 5 acres.

Total number of acres in group. About 105 acres.

Title, Held by location but patent applied for; preliminary survey com-  
pleted by Robt. McCoy, U.S. Dep. Min. Surveyor, Battle, Wyo.

Lien or encumbrance, None filed.

Title guaranteed by Not insured.

Nearest railroad station Walcott, on U.P.R. Distance, 65 miles,  
in a north westerly direction.Reached by Stage or wagon road via Saratoga and Encampment. A new road  
may readily be built from Saratoga to the mine up Cow creek and consid-  
erable distance and several heavy grades saved.

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

Altitude at main workings, " 9000 " " " "

Character of country rock is an altered schist of varying composition, with  
bands and stringers of quartz. The strike and dip varies.

Character of wall, Vein is not determined as yet.

## BELOW ON

The formation on the Buelah property is a schist showing more or less alteration and mineralization and having a general easterly and westerly strike with a dip of about 45 to 50 degrees to the north.

The schist is replaced at irregular intervals by bands of massive quartzite and an occasional dyke of diorite, both series of ledges having the same general dip and strike of the surrounding schists, and both showing strong evidences of mineralization.

In the Battle Lake country the paying mines of the district have been usually found on the contact of the schists and one of the included rocks.

The tunnel on the Buelah No. 1 claim is being run to cut the contact of the above mentioned ledges at a depth of about 300 feet, the steep slope of the hill and the pitch of the formation being favorable for gaining depth very fast.

The tunnel has cut several bands of mineralized material: at 104' a band of quartzite was cut about 15 feet wide and showing iron and copper sulphides in spots and streaks with some coloring of green carbonate of copper. This quartzite gives place to an altered diorite which has not yet been cut through and which includes a band of light colored silicious lime material having a banded structure and showing iron and copper pyrites at intervals. A drift is started east in this material.

The tunnel had reached a length of 175 feet and was being pushed night and day, seven men being employed.

The external conditions on this property for the location of the necessary buildings and possible reduction works are favorable for the economical working of the property both in its present stage and on a more extended scale. Water is furnished by Cow creek that flows a good stream past the mouth of the tunnel and can be made to furnish power to a large plant when required.

The mineralized condition of the outcrops and ledges found on this property is considered to indicate the presence of ore and to be an encouraging prospect.

*H. C. Beeler,*  
State Geologist.

Date of Examination.

July 17th, 1901.