

FROM OFFICE.

REPORT ON

GEOLOGICAL SURVEY OF WYOMING

THE COONEY HILL PROSPECT. ~~MINE.~~

Owned by The Cooney Hill Gold & Copper Mining & Milling Company.

Principal office, Hotel Normandie, Cheyenne, Wyo.

Officers:

President, Alexander Bowie, Chugwater, Wyo.

Vice President, F.A. Hoyt, Cheyenne, "

Secretary, } John Brown, " "

Treasurer, }

Location, on Section 20, T.25 N., R.69 W.

Cooney Hill Mining District, Laramie County, Wyoming.

Name and address of Superintendent, F. A. Hoyt, Cheyenne, Wyoming.

Number of lode Claims, Six, containing about 88.5 acres.

Names of lode Claims, Cooney Hill; Whippoorwill; Elsie B.; Emma J.; Little Dock and B.C. & H..

Placer Claims, None located. acres.

Mill Sites, None located but location may be secured at any time. acres.

Total number of acres in group, about 88.5 acres.

Title, By location and discovery, Claims surveyed, platted and recorded.

Lien or encumbrance, None filed.

Title guaranteed by Not insured.

Nearest railroad station Wheatland, on C. & S.R. R. Distance, 12 miles,
in easterly direction.Reached by Wagon road via Two Bar ranch on Sabille river by easy grades
to Wheatland.

Altitude at railroad station, 4737 feet above sea level.

Altitude at main workings, 5330 " " " "

Character of country rock Gray granite, sometimes feldspar is missing and other-
wise altered, some gneiss and bands of mica hornblende schist.

Character of wall, As far as determined, granite and schist.

MELOKI ON

Character of vein. It is considered that the ore found in the main working is in a series of lenses and not in a continuous vein.

The quartz gangue or vein matter shows in the inclined shaft from the surface down and also in the short drifts at 50' and 100' deep; the best showing however is in the main drift east at 155' deep where the ore shows four feet wide, impregnated with copper sulphides.

The shaft has been sunk on a varying angle and is considered to have cut several of the lenses or stringers; a crosscut has been run south 40' on this level to cut a lead or lense believed to exist there but had not done so at this date.

Character and occurrence of ore. The ore occurs as copper-iron sulphides, chalcopyrite and bornite, in bunches and streaks in a broken or crushed granular white quartz gangue that at the present depth shows some streaks of mica and white iron sulphides. The ore has been practically continuous and has increased in quantity as depth is gained but it is noted that the copper passes out at intervals in the different lenses but is never entirely missing in the body of the ore.

In the lower drift face the ore shows as ore for a width of four feet, the principal values showing as a streak about 2' wide.

| | | |
|--------------------|----------------|------------------|
| Development, | 1Shaft , | 165 feet, size, |
| | 1Tunnel , | 77 feet, size, |
| | 1Crosscut. | 36 feet, size, |
| | 3Drift . . . | 80 feet, size, |
| | Upraise , | — feet, size, |
| | 1Winzexincline | 40 feet, size, |
| | 1Stope , | 4 feet, size, |
| Total development, | | 382 lineal feet. |

Ventilation, By hot air stove and air pipe in shaft to lower drift; air is good in lower workings.

Exits and fire protection. None provided except ladder ways in main shaft.

Method of Ore Extraction. No systematic mining has yet been done as the property is still in a prospect stage, the ore mined having been taken out of the shaft, drifts and a small stope on the lower level during development work.

Method of Timbering. Little timber has been required as the ground is solid. The upper part of the shaft is cribbed through the loose ground and an occasional prop has been used where needed.

Character of fuel, power and hoist. No hoist is yet in use, an F.N. Davis horse whim being used for hoisting purposes.

Time required to hoist and dump one bucket, 6 minutes.

Character of Pumps. No pump has yet been installed as the water is handled by the whim, using a 60 gallon bailer from the 10' sump.

About 25 buckets per day is hoisted but this varies with the season of the year.

Character of reduction works, None on the property.
BUILDINGS.

The buildings on the ground are as follows;

1 shaft house, 26' x 40', built of lumber and painted.

1 boarding " , 18' x 50', do.

1 store " , 12' x 12', do.

1 barn , 32' x 36', do.

Also a small dugout and dwelling not belonging to the Company.

| | | | |
|-------------------------------------|---------------|---------------------------------|-------|
| Capacity, | tons per day. | Average daily run, | tons. |
| Average value, \$ | per ton. | Average per cent of extraction, | |
| Average cost or smelter charges, \$ | | per ton. | |

Number of tons of ore mined to date, **about 650 tons**, Average value per ton, **about \$9.00** tons.

Average number of tons of ore mined per day, **No record kept.**

Average cost per ton, \$ **No record kept.**

Average cost of sinking per foot, \$ **No record kept.**

Average cost of drifting per foot, \$ **9.00**; Crosscutting by contract \$ **14.00** per foot.

Average number of men employed in mine, **Four.**

Average number of men employed in mill,

Freight on ore to railroad station, \$ **1.70 to Wheatland.** _____ per ton

Freight on ore to smelter, \$ **2.20 Wheatland to Denver.** _____ per ton

Freight on ore to reduction point, \$ **3.90 total freight.** _____ per ton

Freight on supplies from supply point or railroad station, **No figures given,** _____ per ton

Cost of fuel, \$ **wood \$2.00 per cord,** _____
coal, \$4.00 per ton Average cost per month, \$ **delivered in each case**

Cost of timber, \$ **14.00 per M** per foot. Average cost per month, \$ _____

WAGES PAID.

| MINE. | | | MILL. | | |
|------------------------|------------|-----------------|-----------------|------------|--------|
| Foremen, \$ | per day of | hours. | Foremen, \$ | per day of | hours. |
| Miners, \$ 3.00 | per day of | 9 hours. | Millmen, \$ | per day of | hours. |
| Trammers, \$ | per day of | hours. | Laborers, \$ | per day of | hours. |
| Shovelers, \$ | per day of | hours, | | | |
| Timbermen, \$ | per day of | hours. | | | |
| Topmen, \$ | per day of | hours. | OUTSIDE LABOR | | |
| Pumpmen, \$ | per day of | hours. | Blacksmiths, \$ | per day of | hours. |
| Engineers, \$ | per day of | hours. | Carpenters, \$ | per day of | hours. |
| Laborers, \$ | per day of | hours. | Laborers, \$ | per day of | hours. |

Water Supply, **Water for steam and domestic purposes may be secured from the springs on the claims and vicinity.**

There is practically no timber on the group but timber may be had from local sawmills laid down at the mine for \$ **12.00 per M feet,** to \$ **14.00 per M feet.**

Hay and other feed may be had at the local markets in quantity and general supplies can be bought at Wheatland at current rates.

5.

It is considered that this property offers a fair opportunity for further development as the ore has shown an increase as depth has been gained and shows no present signs of giving out.

It is suggested that a hoist be installed at the present shaft and development pushed by sinking and extending the drift at 155' both east and west along the lines of the lenses of ore and crosscuts run at intervals as the work progresses.

The amount of water to be handled will in all probability increase as depth is gained and a small sinking pump is recommended to handle the water and facilitate the work.

This property is considered a concentrating proposition and tests have been made by the present owners that indicate a ore easily handled and concentrated.

No assays are included here as the above tests cover the ground in a more thorough manner and give a better idea of the values than assay samples would do.

OTHER WORKS.

A large ledge is noted on the Whippoorwill claim, running in a general northwesterly and southeasterly direction and with a dip to the north of about 45 degrees. The ledge apparently conforms in strike and dip with the schists of the country.

This ledge is a highly mineralized quartzose ledge matter about 8' wide, as far as can be seen from the out crops. A shaft has been sunk to a depth of 40 feet on this ledge showing the oxidized iron capping to a depth of 37 feet at which point the mineralization changed to the white sulphides of iron with small specks of copper pyrites.

No further development has been done here and it is recommended for further development by sinking the present shaft on the dip of the ledge and crosscutting when sufficient depth is reached. It is considered a promising lead to follow as conditions noted here are similar to those noted elsewhere at successful properties. The lead carries small values in gold also.

Respectfully Submitted,

Henry C. Beeler

Date of Examination,

Sept. 3rd, 1901.

State Geologist of Wyoming.