

Sunday Hill Mine

Mormon Basin district, Malheur county.

Owners: William Phalen, Frank Harris, John Daniels, Rainbow Company, and Bonekamp Estate.

Location: In the SW $\frac{1}{4}$ of the NW $\frac{1}{4}$ of section 15, T 13 S, R 42 E. Elevation about 5050 feet.

Area: 17 lode claims.

History: Located in 1867 and first mill built in 1868. Said to have a past production of \$80,000. Within recent years, W.H. Bonekamp is said to have taken out \$6000 in 1933, and Holman taken out \$5000 in 1931 and 1932. The North American Mines, Boston, did development work in 1937 to the extent of 30 feet of shaft and 200 feet of drift.

Equipment: The mine equipment consists of three ore cars, 3 hoist buckets, 2000 feet of track, 5 H.P. motor for hoist and 30 H.P. motor for compressor, 800 feet of 4" pipe. The mill consists of Power line and transformers, 18" crusher (Dodge type) for old stamps, 'F.M.' 15 H.P. motor for stamps, 18" primary crusher and automatic feeder, 50' and 25' feeder belts, 50 ton ball mill and 'G.E.' 40 H.P. motor, Dorr type classifier, Adams reagent feeder, 1 primary and 3 secondary flotation cells, with 'U.S.' 1 $\frac{1}{2}$ H.P. motors for each, Wilfley table, 5 x 20', with 'F.M.' 7 $\frac{1}{2}$ H.P. motor, 2 7 x 10' amalgamation tables, 2 4 x 4' box dryers. Line shafting, pulleys, 2" and 3" piping, switch boxes, etc. Laboratory fitted with 500 gram test flotation cell (Fagergren), 5 12" screens, Troemer double bar scales (700 gm.) The large mill building and transformer building are in good condition and there are three bunk houses and cabins.

Geology: The country rock is greenstone, faulted down against granite on the west. The veins strike from N30E to N30W and dip about 45 degrees east. On the Robert F. vein, which strikes N30E and dips 45 E, the granite is from 2 to 20 feet to the west. The Phelan vein to the north strikes closer to north-south and runs into the granite. Another strikes N10W. *See Ball 046*
Development on the mill level consists of about 600 feet of crosscut and over 300 feet of drift, with numerous short crosscuts and two 70 foot raises, and one 130 foot winze. About 220 feet of work was done in 1937. Ore and gangue minerals are free gold in quartz, with some galena. Below the main level about 30 feet, the ore is said to become sulphide. On the main level malachite, manganite (?), chrysocolla and limonite were common.

Remarks: From the condition of the mill setup, and from discussion with young Phelan, the last operators made a mess of the milling, and resulted in closing down. The numerous conveyor belts and makeshift transfers suggest amateur operation.

It is probable that little economic ore remains above the mill level. On the lower levels some has been developed by the 120 foot winze. It may well be persistent at depth, but the mine has not been developed for sale as yet.

Visited June 22, 1938

John Eliot Allen
John Eliot Allen

Sunday Hill Mine

Gold

NAME

OLD NAMES

PRINCIPAL ORE

MINOR MINERALS

T13S

R42E

NW 1/4 Sec. 15

PUBLISHED REFERENCES

Gilluly, Reed & Parks 33:19
Oregon Metal Mines Handbook 14A pg-83

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R

S

MISCELLANEOUS RECORDS

Baker..... COUNTY

Mormon Basin..... AREA

5050..... ELEVATION

ROAD OR HIGHWAY

12 mi. Dixie, Ore..... DISTANCE TO SHIPPING POINT

PRESENT LEGAL OWNER (S) .. Wm. Phelan.....

Address

.. Frank Harris.....

.. Rainbow Co. Bonekamp Estate.....

OPERATOR

Name of claims Area Pat. Unpat.

Name of claims Area Pat. Unpat.

17 lode claims

EQUIPMENT ON PROPERTY

DEPARTMENTAL RECORDS on file in

DEPARTMENTAL RECORDS

Deputy G.D. Baker

SUNDAY HILL MINE

MORMON BASIN

DISTRICT: Is 25 miles southwest from shipping point, Durkee, on the Old Oregon Trail and Union Pacific. Located 60 years ago and consists of 17 lode claims, recorded in Vale, Oregon. Located in high mountain area; country rock is quartz and greenstone; vein strata bearing northwest and southeast; length 1-1/4 miles. Mineral is gold, also galena, assays at \$15. Water is pumped from shaft; timber close on government land; power from Idaho Power Company. Has past production of \$70,000. Is equipped with 50 ton mill and flotation plant, 5000 feet of tunnels and a 290-foot incline shaft. First mill erected 1868. Report by William Phalen. (Prescott----6/1/37).

6/16/38

#6000 W.H. Bonekamp in 1933-

*5000 Holman - 1930-31

1937 North American Mines - Boston Mass

shaft 30' drifted 200'

J. S. Robertson - (sur as last)

Wm. Phalen - one of locators - part owner Bonekamp Estate

Frank Harris

John Daniels

Rainbow Co.

Have report - can get.

MORMON BASIN
BAKER COUNTY
Au, A9



SUNDAY HILL MINE
70 page report by George C.
Hogg (1929 or 1930) in over-
flow file

STATE DEPARTMENT OF GEOLOGY
AND MINERAL INDUSTRIES

BAKER FIELD OFFICE
2033 FIRST STREET
BAKER, OREGON

March 21, 1963

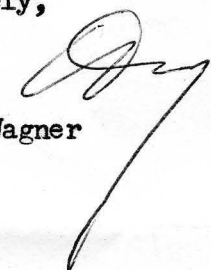
Mr. Ralph Mason
1069 State Office Bldg.,
Portland 1, Oregon

Dear Ralph:

This is a copy we made of a scarce report on the Sunday Hill Mine. It is probably of questionable accuracy in some areas of its coverage but it is still a report of historical significance; hence our taking advantage of the opportunity to make a copy.

File under Sunday Hill and make the necessary entries on your Sunday Hill index sheet and all will be in order between our files.

Sincerely,


N. S. Wagner

NSW:tm
Enc. Sep. Cvr.

RECEIVED
MAR 22 1963

STATE DEPT. OF GEOLOGY
& MINERAL IND.