

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
ASSAY LABORATORIES

Baker

SAMPLE INFORMATION REQUESTED

Grants Pass

The law passed by the Legislature, governing the free assaying and analyzing of samples sent to the State Assay Laboratories, provides that certain information be furnished the Laboratory regarding samples sent for assay, etc. A copy of this law will be found on the back of this blank. Please read the law carefully. Will you please fill in the information called for on the following blank, as far as possible and return the same to the nearest State Assay Laboratory along with your sample? If you have made out a blank, this copy is for your future use. Keep a copy of the information on each sample for your own reference.

Your name in full John H. Miller

Postoffice address 230 Kellogg Park, Portland 2, Oregon

Are you a citizen of Oregon? Yes Date on which sample is sent 2/17/43

Name (or names) of owners of the property. G. H. Miller

Name of particular claim and date of location. Horseshoe Lode

Location of property or source of sample (describe as accurately as possible below):

(1) County Josephine (2) Mining district Greenback

(3) Township 33 S: (4) Range 5 W. (5) Section 28 . (6) Quarter Section. NW

How far from passable road? On

For what minerals or elements do you wish the sample analyzed? Copper, Gold and Silver

(Unless other minerals or elements are specifically named this sample will be assayed for gold and silver only.)

Type of sampling: Channel (length) Grab X Pipe

Report mailed Called for

IMPORTANT: A sample, to be of value, should be taken in an even channel across the vein from wall to wall. Its position in the workings should be marked and the width measured. Assays of unlocated samples, without widths, are of little value; they create little interest in the minds of experienced investors and engineers.

(signed)

DO NOT WRITE BELOW THIS LINE--FOR OFFICE USE ONLY -- USE OTHER SIDE IF DESIRED

Description _____

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| |

| Sample Number | GOLD | | SILVER | | Copper | Total |
|---------------|--------|--------|--------|-------|------------------|---------|
| | oz./ T | Value | oz./ T | Value | Percent | |
| P-5694 | 0.01 | \$0.35 | Trace | | 4.00% \$15.55 | \$15.55 |
| | | | | | | |

Report issued(_____) Card filed(_____)

GREENBACK MINING DISTRICT

JOSEPHINE COUNTY

Miller Placer Status of Placer Operation for 1947-48 Season

E. P. Preble
Sunny Valley, Ore.

Vicinity of Leland
Sec. 8 T34S., R6W.

Hydraulic-1 giant. At present they are
securing equipment but plan to operate this season.

Operator & Lessee:

Henry G. Plummer, 619 East "G" Street, Grants Pass, Oregon

Owner:

Miss A. L. Dieter, Leland, Oregon. Administrator is Mr. A. W. Prebble, Leland, Oregon.

Location:

SE $\frac{1}{4}$, NW $\frac{1}{4}$, SW $\frac{1}{4}$, NW $\frac{1}{4}$, sec. 8, T34S, R6W. The property is in the saddle of the hill which faces Grave Creek between Brimstone Gulch and Dog Creek. It is just south of the town of Leland.

Area:

The area of the lease in which the mining of this year was in is a little over 6/10 of an acre. However, the auriferous gravels are more extensive than this, probably in the order of several tens of acres.

All is on patented land.

History:

This is an old area and sporadic mining has been carried on since late in the 1800's.

Bulletin No. 14-C, Vol. 11, Section I, page 112 quotes the Mining Journal (Arizona) as saying a small shovel was used in Brimstone Gulch in 1941. It is not certain whether or not the above reference was at the same spot as the operation of this year.

Development:

Sixteen to eighteen holes were drilled in a pattern 4 wide on 50 foot centers.

Geology:

This is another of the "high channel" or "old channel" deposits of Southern Oregon which were formed during the uplift of the Klamath Peneplain. This deposit probably represents a former tributary of the stream that is now called Grave Creek. Grave Creek is undoubtedly an antecedent stream. This "high channel" is over 300 feet above the present Grave Creek and is less than one half mile to the south.

Most of the pebbles and cobbles of the deposit are so thoroughly weathered that they can be easily cut with a knife, although outwardly they have all the appearance of "solid rock". Some of the larger boulders, however, still have a "nucleus" of hard rock. Of the "nucleus" material observed most of it appeared to be a metavolcanic (or greenstone) and appeared similar to the rocks of the metavolcanic series found in the hills to the east. Quartz cobbles and boulders up to 4 feet in diameter are found in a "channel" within ~~this~~ ^{the} deposit. As a rule the quartz fragments show no visible alteration and they are often auriferous.

Soundings of the "gravel" varies from angular to subrounded. Average size is around two to three inches.

A red soil up to six feet in depth has been developed. Average of soil is around 3 feet.

Average depth to bed rock will be around ~~twenty~~ ^{twelve} feet.

Bedrock is slate of the Galice formation (Jurassic). Quartz veins up to several inches in width are common.

Mining:

Mining was done by hydraulic methods supplemented by bulldozer.

Water was taken from Brimstone Gulch and pumped by a 125 hp motor at a rate of 550 ^{gpm} ~~gpm~~. The vertical lift was 351 feet through 1450 feet of 6 inch steel pipe.

Gauge pressure at intake was 160 psi and was estimated as 65 psi at the nozzle. Nozzle was $2\frac{1}{2}$ inches in diameter.

The bulldozer was used for stripping (4' average) and for moving ground to the nozzle. Channels outlined by drilling were "high graded" by this method with a minimum of set ups and moving of "low grade" by water power. A maximum depth of 18 feet was reached by the bulldozer.

It was estimated that 350 cu. yds. a day were run through the sluice boxes. There were 80 feet of riffles.

Equipment:

125 hp Continental Motor. This is "surplus property" and was designed for pumping fuel across the English channel.

Hillman drill.

2500' of 6" pipe.

D 7 Caterpillar.

References:

Bull. #14C, Vol. II, Sec. I.

Geological Atlas of the United States, Riddle Folio, #218.

Informant:

H. G. Flummer

Report by:

H. M. Dole, May 20, 1947

State Department of Geology and Mineral Industries

702 Woodlark Building
Portland, Oregon

MILLER PLACER (GOLD)

GREENBACK MINING DIST. JOSEPHINE CO.

Economics:

A total of twenty days of piping was done by this operation. From this was recovered 24 ounces of gold (mint report). In other words from 7000 ~~sq.~~ yds. approximately \$840.00 was recovered or an average of 12 cents per yard. Drilling showed that the ~~ground~~ ^{ground} should average from 4 to 10 times this amount.

It is my opinion that recovery was very poor, and that the true values would come closer to the drill records, than to the recovery record. It is also my opinion that the men on the job did not have the interest of their employer at heart and that coupled with poor mining practice (in regards to placement and type of riffles plus sluicing operation) was responsible for the failure of this operation.

Four men were employed (which was about 2 too many). Drilling, cleaning, and setting up of the operation took several months. So it can readily be seen this was not a money maker. It was an interesting one, however, and it is ~~my~~ belief that if a similar one was put in more competent hand success might have been realized.

Mr. Plummer is not too discouraged and is planning on making another stab at it next year with a few "minor changes".

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