

Report on the Hazel-Queen of the Hills Group, Jackson Co., Oregon
 This report covers the combined claims of the Queen of the Hills and the Hazel located respectively in the NE $\frac{1}{4}$ of Section 34 and the SW $\frac{1}{4}$ of Section 27 both in T36S, R4W, Willamette Meridian. The group is situated on the south slope of Rogue River Valley in western Jackson County, Oregon.

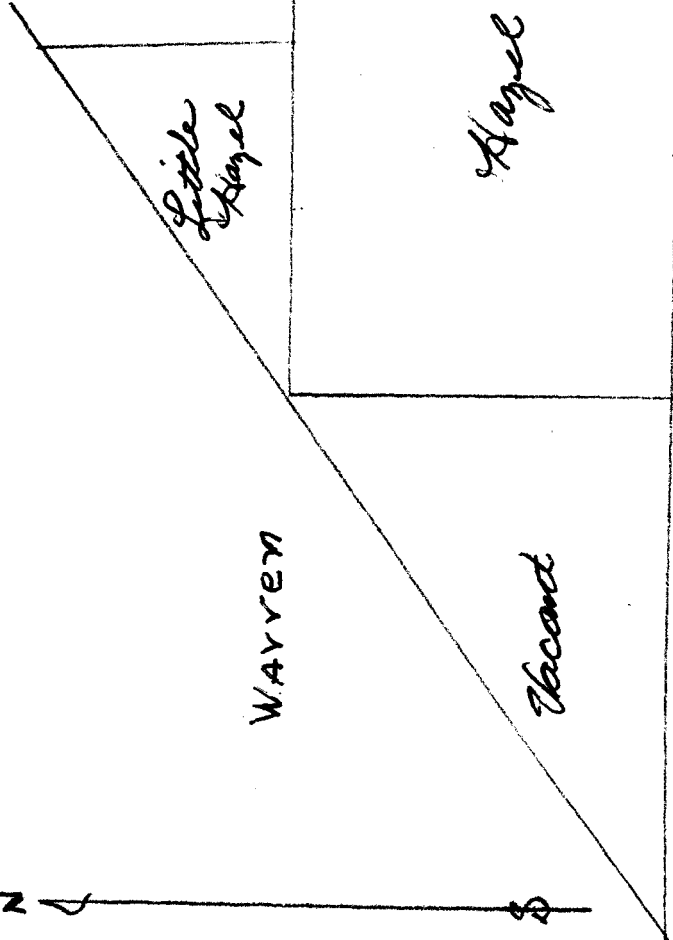
The group consists of three full claims and two fractions: Queen of the Hills Nos. 1 and 2, Hazel, Little Hazel (fraction), and the Hazel Extension (fraction). Their relative positions with respect to each other is shown on Plate I.

The property is owned by Archie C. Bell of Merlin, Oregon, and Stanley Smith of Bend, Oregon, having acquired it by purchase.

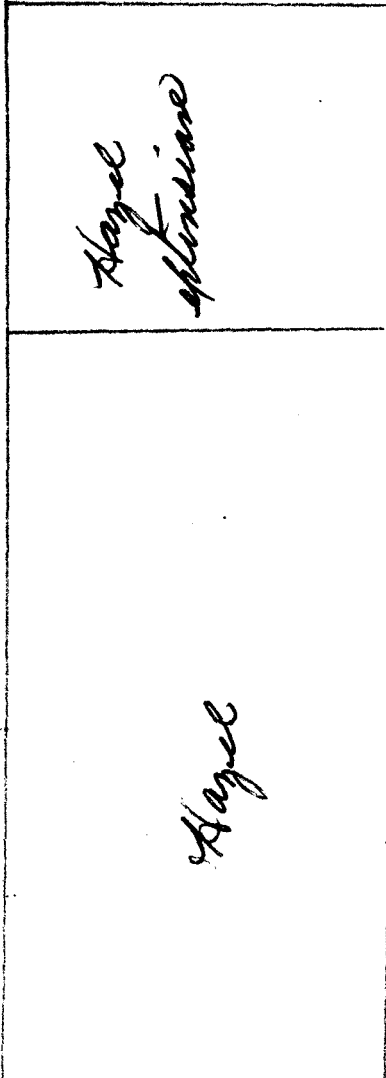
Mining dates back earlier than the location of the Hazel in 1916 by George Swicker from whom the property was purchased. The development to date consists of numerous tunnels, cuts, and pits which are shown on Plates II, III, and IV. *not included in this copy* These workings have been made on a few of many veins and stringers some portions of which were exceptionally rich in very coarse gold.

There are two general attitudes to the veins and stringers: one set has a westerly strike with a steep northerly dip and the other has a northerly strike with an eastern dip. The wall rock is highly sheared and altered sediments formerly of a slate composition although at the Queen of the Hills the rock was originally an impure limestone. The schistosity of these metamorphosed sediments is approximately N15°E with dips varying from 50°E to vertical. These schists are undoubtedly cut by dikes of diorite the float of which was observed occasionally.

N
S



DOUBLE "A" (HOMA)



Queen of the Hills
No. 1

Queen of the Hills
No. 2

Plate I

Map showing the approximate
Locations of Claims

Data by Stanley Smith

Most of the gold came from hand-mortared high-grade ore mined by numerous individuals. The gold that was observed frequently was in crystalline cubes although it is stated to vary from up to $\frac{1}{2}$ inch scales and raisin shape pieces to tabular sheets one of which was $\frac{5}{8}$ inch in thickness.

The best ores at the Hazel came from the Swacker cut although rich ore was found in numerous places in every workings. At the queen of the hills, the best ore apparently came from the bottom of the shaft where it is supposed to continue beneath the bottom. A pan sample record made in 1929 of the veins and stringers found in the Golden Lane tunnel show an average of \$98 per ton. No recent sampling has been done to clearly show what the average of all the ores.

Most of the mining was done in the oxidized surface with little indication to show any continued effort in any particular place. The quest for the rich, easily obtained high-grade was responsible for the irregular mining as was the lack of fund to carry on a well-planned exploratory program. From the data gathered it was learned also that the operators did not attempt to determine the reason for the gold depositing as it did in order to detect the most favorable location for high-grade by some characteristics.

The Hazel group is conveniently located 0.6 mile from Pacific Highway #99 and 11.4 miles from the City of Grants Pass where all mining supplies can be obtained. The queen of the hills tunnel is accessible by wagon road only to the Golden Lane Roads, however, can be inexpensively built on any part of the

This dike rock was not seen in the accessible opening but it is reported to have been encountered in some of the workings.

At present, after years of war time neglect, but few of the old workings were open for inspection; those that were showed only stringers a larger portion of which had been stoped and now caved. Both the "Swede" and the "Y" tunnels are completely caved at the portals and with substantial veins encountered in each it was desired to inspect these particularly the latter in which a large sulfide vein was found and little explored or asayed as far as could be determined. In addition to the sulfide vein, considerable lime water was encountered showing the proximity to the lime schist.

At the present of the mine three tunnels were accessible as indicated on plate III and in these the veins encountered varied less than an inch to 10 inches in width. Of those on the west side of the ridge, the southernmost crossed what is believed to be the extension of the "Goat" vein. This vein was cut again at the portal of the tunnel that tapped the bottom of the shaft on the ridge. Whether it was encountered in the two tunnels between could not be ascertained as they were caved. Due to caving, the ore at the bottom of the shaft could not be examined but the wall rock was the most favorable of all. The "Golden Lane" tunnel on the west side of the ridge, shown on Plate IV, encountered 3 veins and stringers which vary from $\frac{1}{2}$ to 12 inches in width.

The known production was approximately \$4,000 but the total cannot be fully determined due to the lack of records.

property at not over \$750 per mile for 10 mph speed. The nearest power line is 0.5 mile northeast of the Hazel. For preliminary operations, however, gasoline or Diesel power would be more convenient.

As for timber, there is sufficient fir and pine on the property for about two years of exploration or small-scale mining.

Water is the shortest commodity although sufficient water will be developed underground to supply a small mill. For more extensive operations, however, water will have to be obtained from the Rouge River 0.7 mile distant or purchase additional water from an irrigation ditch which flows below the road at the Hazel.

The climate of the region is quite mild; the average temperatures for January and July are 39.0°F. and 70.0°F. with a high of 114° and a low of 0° over a 40 year record. The average annual rainfall is 29.21 inches with 5.35 inches falling in January and only 0.16 inches falling in July.

Although many of the workings were inaccessible, the property appeared favorable enough to warrant extensive development. I recommend that to begin operations that the "Y" tunnel be re-opened and drifting continued plus cross-drifting on every promising vein encountered or exposed. I also advise systematic sampling of the veins and also the country rock as well taking not more than 10 foot samples and for the latter testing that can be accomplished with a light churn drill sampling every 10 foot depth with holes so spaced so as to delineate what country rock containing seams and stringers will make profitable mill ore

on a large scale. The type of milling plant tentatively should be for free milling ores but so arranged that additional equipment can be installed to handle the base ores; the size of plant is dependent on the developed capacity of the mine.

It is my opinion that this property can be developed into a profitable mine as there is every indication that the values and sufficient ore is present ready to be developed and mined. All that is required is sufficient capital to thoroughly equip the property for proper operating which should be guided by wise, efficient management.

Respectfully submitted,

(signed)

Burton J. Westman, B.Sc.
MINING GEOLOGIST & ENGINEER

Etas, California
November 11, 1946

HAZEL-QUEEN OF HILLS

GOLD HILL

JACKSON

Confidential

Copy

REPORT

on the

HAZEL

and the

QUEEN OF THE HILLS

in

Jackson County, Oregon

by

Burton J. Westman, B.Sc.
MINING GEOLOGIST & ENGINEER
Etna, California

November 11, 1946

Confidential

CRIB MINERAL RESOURCES FILE 12

RECORD IDENTIFICATION

RECORD NO..... MO13875
 RECORD TYPE..... XIM
 COUNTRY/ORGANIZATION. USGS
 FILE LINK ID..... CONSV
 MAP CODE NO. OF REC..

REPORTER

NAME LEE, W
 DATE 74 01
 UPDATED..... 80 12
 BY..... FERNS, MARK L. (BROOKS, HOWARD C.)

NAME AND LOCATION

DEPOSIT NAME..... HAZEL GROUP
 SYNONYM NAME..... QUEEN OF THE HILLS

MINING DISTRICT/AREA/SUBDIST. GOLD HILL

COUNTRY CODE..... US
 COUNTRY NAME: UNITED STATES

STATE CODE..... OR
 STATE NAME: OREGON

COUNTY..... JACKSON

QUAD SCALE QUAD NO OR NAME
 1: 24000 GOLD HILL

LATITUDE LONGITUDE
 42-24-17N 123-09-55W

UTM NORTHING UTM EASTING UTM ZONE NO
 4694500. 486400. +10

TWP..... 36S
 RANGE..... 04W
 SECTION.. 27 34
 MERIDIAN. W.M.

POSITION FROM NEAREST PROMINENT LOCALITY: SW1/4 SEC. 27, & NW1/4 SEC. 34, BETWEEN 1200 AND 1850 FEET ELEVATION.

COMMODITY INFORMATION

COMMODITIES PRESENT..... AU

PRODUCER(PAST OR PRESENT):

MAIN ORE MINERALS:
FREE GOLD

EXPLORATION AND DEVELOPMENT
STATUS OF EXPLOR. OR DEV. 4

PROPERTY IS INACTIVE
BRUCE DE ROSIER (1979)

PRESENT/LAST OPERATOR.....

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:

VEIN

FORM/SHAPE OF DEPOSIT:

SIZE/DIRECTIONAL DATA

SIZE OF DEPOSIT..... SMALL

DESCRIPTION OF WORKINGS
UNDERGROUND

COMMENTS(DESCRIP. OF WORKINGS):

ABOUT 400 FT OF CROSSCUTS AND DRIFTS

PRODUCTION
YES

ANNUAL PRODUCTION (ORE, COMMOD., CONC., OREBURD.)

SOURCE OF INFORMATION (PRODUCTION).. OREGON METAL MINES HANDBOOK

PRODUCTION COMMENTS..... ABOUT \$3000 (1940)

GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS..... PERM-TRI
HOST ROCK TYPES..... LIMESTONE, SLATE

AGE OF ASSOC. IGNEOUS ROCKS.. PERM-TRI
IGNEOUS ROCK TYPES..... ANDESITE PORPHYRY

PERTINENT MINERALOGY..... QUARTZ

GEOLOGICAL DESCRIPTIVE NOTES. COUNTRY ROCKS ARE ALTERED SEDIMENTS INCLUDING ARGILLITE AND LIMESTONE OF THE APPLIGATE GROUP WHICH STRIKE ABOUT N. 15 DEG. E. AND DIP 50 DEG. E TO VERTICAL.

LOCAL GEOLOGY

NAMES/AGE OF FORMATIONS, UNITS, OR ROCK TYPES

State Department of Geology and Mineral Industries

702 Woodlark Building
Portland, Oregon

HAZEL GROUP (gold)

GOLD HILL DISTRICT

Owner: Mr. & Mrs. Archie Bell, Gold Hill, Oregon.

Location: South center sec. 27 & north center sec. ~~28~~ 34, T. 36 S., R. 4 W., on ridge between Birdseye Creek and next creek west.

Area: 47.8 acres of patented land, three claims and two fractions held by location.

History: First opened in 1916 by Dick Swacker who operated it until 1924, producing a reported \$2,000 from one of the contact zones. Mrs. Eva Hodès acquired the property in 1924, and not over \$1,000 has been produced since 1924. Mrs. Hodès is now Mrs. Bell. Total production is thus about \$3,000.

Development: One cross-cut 186 feet that intersects the andesite-porphry contact at 70 feet; a 65 foot drift to the andesite-porphry contact; a 134 foot drift to the limestone-porphry contact.

Equipment: One air compressor about 11 x 13 in size; one jack hammer (Ingersoll); drill steel. Timber is fir and pine and is plentiful. Water enough for a small mill has been developed. Power line is one-half mile away.

Geology: An andesite dike is reported to cut porphyry. Both walls of the andesite dike contain quartz that is metallized. The quartz averages 3 inches in thickness, and ranges from 0-18 inches. The gold is free. There is a limestone and porphyry contact that is reported to intersect the andesite dike. This contact has produced the best values. The limestone is somewhat sheared and metallization extends through this shear zone and some of the gold is "frozen" to the "marble". The limestone lens is over 50 feet thick, and is reported to be high in CaCO_3 . Samples have been submitted to the cement company.

Metallurgy: The ore is free-milling. A small mill has been erected to handle the decomposed rock in the limestone-porphry zone. Ore is dumped into a 4 ft. by 4 ft. x 20 ft. chute which acts as an ore bin. The ore goes to a Chilean mill that has 36 inch wheels weighing about 1200 lbs. each. After grinding and amalgamation in the Chilean mill, the reject goes over a 4 x 8 amalgamation plate, and the material over the plate is sent to the dump.

Informant: Archie Bell, 12/12/40
Report by: RCT, 12/13/40

2033 First Street
Baker, Oregon

1069 State Office Building
Portland 1, Oregon

Au, Ag
239 S.E. "H" Street
Grants Pass, Oregon

REQUEST FOR SAMPLE INFORMATION

The State law governing analysis of samples by the State assay laboratory is given on the back of this blank. Please supply the information requested herein as fully as possible and submit this blank filled out along with the sample.

Your name in full Len Ramp (DOGAMI)

Post office address P.O. Box 417 Grants Pass, Oregon

Are you a citizen of Oregon? Yes Date on which sample is sent 11/17/58

Name (or names) of owners of the property Archie Bell & Stanley Smith

Are you hiring labor? _____ Are you milling or shipping ore? _____

Name of claim sample obtained from #1 - Queen of the Hills; #2 - Hazel extension

Location of property or source of sample (If legal description is not known, give location with reference to known geographical point.)

County Jackson Mining District Gold Hill

Township 36 S Range 4 W Section #1 - 34 Quarter section NW cor.

How far from passable road? #1 - 1 mile Name of road Birdseye

Channel (length) Grab Assay for Description

Sample no. 1 _____ x Au, Ag from vein near face 240' tunnel

Sample no. 2 _____ x Au, Ag chip from vein(?) near road.

(Samples for assay should be at least 1 pound in weight)

(Signed) Len Ramp

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

Sample Description #1 - mixture of clay, quartz, and sheared metasedimentary rock.

#2 - Rhyolite(?) porphyry dike with minor disseminated pyrite. ✓

Sample number	GOLD		SILVER					
	oz./T.	Value	oz./T.	Value				
P-23656 SG-305	0.02	\$0.70	1.10	\$0.99	- - -	- - -	- - -	- - -
P-23657 SG-306	Nil	- -	Trace	- -	- - -	- - -	- - -	- - -

Report issued _____ Card filed _____ Report mailed 12-1-58 Called for _____

2033 First Street
Baker, Oregon

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

1069 State Office Building
Portland 1, Oregon

239 S.E. "H" Street
Grants Pass, Oregon

56-303 + 306
Au, Ag

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Your name in full Len Ramp

Post office address P.O. Box 417

Are you a citizen of Oregon? Date on which sample is sent 11/17/58

Name (or names) of owners of the property Archie Bell & Stanley Smith

Are you hiring labor? Are you milling or shipping ore? no

Name of claim sample obtained from #1 Queen of the Hills
#2 H 2 Z. 10 extension

Location of property or source of sample (If legal description is not known, give location with reference to known geographical point.)

County Jackson Co Mining District Gold Hill

Township 36 S Range 4W Section #227 Quarter section SW cor

How far from passable road? #1 1/2 to 2 miles
#2 alongside Name of road Birdseye

Channel (length) Grab Assay for Description

Sample no. 1 X AuAg from vein near face 240' tunnel

Sample no. 2 X AuAg chip from vein near road

(Samples for assay should be at least 1 pound in weight)

(Signed) Len Ramp

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

Sample Description #1 mixture of clay, quartz, and sheared
metasedimentary rock. #2 Rhyolite(?) porphyry dike with
minor dissem purple.

Sample number	GOLD		SILVER			
	oz./T.	Value	oz./T.	Value		

Report issued Card filed Report mailed Called for