

SUMMIT MINE

Mormon Basin

Mormon Basin District
Baker County

Owners: In partnership--Carl Mathes, Andy Porter, A. A. Fidler, W. E. Buell, F. H. Dye. Miss Louise Lenard of Chicago is part owner.

Operator: Carl Mathes.

Location: NW $\frac{1}{4}$ of Section 22, T 13 S, R 42 E.

Area: 4 claims and 2 fractions--all unpatented lode claims.

History: Relocated in 1908. Present owner since August 1936. Very little production.

Equipment: Mill consists of primary laboratory-size crusher, Ellis type ball mill, 30 mesh screen, 4x10' copper amalgamation plates, 5' box of 1' wide riffles. Power is furnished by Ford engine with governor. Capacity is $\frac{1}{2}$ ton per hour; if ore is soft, sometimes more.

Geology: Country rock is greenstone intruded by granodiorite apophyses^{/y} and andesite dikes--all highly faulted and somewhat sheared. The main vein runs northeast and southwest (see map). There is a large post mineral east-west fault which dips 25-30° S, above which no ore is found. Below this fault, ore appears from 1' to 5' in thickness. The granodiorite contact appears 30' south of the workings in #2 level and not far south of the lower tunnels.

The ore is composed of oxidized sugar quartz mixed with decomposed andesite, fragments of solid quartz, all heavily iron stained. In a few places there is very fine galena and pyrite visible. The ore averages from \$10-\$20 per ton and is free milling. The ore bodies are very irregular, being repeatedly cut off by steep cross faults.

Miscellaneous: There are 4' or 5' of snow in the winter; abundant water near mill all the year around; abundant timber. Power line comes within $\frac{1}{4}$ mile.

Remarks: The ore has been removed as developed, and there is no reserve to speak of. The discontinuity and relatively small size of the ore bodies are preventing this mine from ever being a large operation; it may be profitable on the scale at which it is now being worked.

Informant: Carl Mathes.

June 15, 1938

John Eliot Allen

John Eliot Allen
Field Geologist

Summit Mine

Summit

Gold

NAME

OLD NAMES

PRINCIPAL ORE

MINOR MINERALS

T13S R42E NW1/4 Sec.22

T R S

PUBLISHED REFERENCES

Oregon Metal Mines Handbook 14A pg-83

MISCELLANEOUS RECORDS

..... Baker..... COUNTY

..... Mormon Basin..... AREA

..... about 4500..... ELEVATION

..... ROAD OR HIGHWAY

..... 10-12 mi.. Dixie..... DISTANCE TO SHIPPING POINT

PRESENT LEGAL OWNER (S) ... Carl Mathes.....

..... Andy Porter.....

..... A. H. Fidley.....

..... W. E. Buell.....

Address

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OPERATOR

Name of claims	Area	Pat.	Unpat.
4 claims			x
2 fractions			x

Name of claims	Area	Pat.	Unpat.

EQUIPMENT ON PROPERTY

DEPARTMENTAL RECORDS ON FILE IN

MINERAL AND VEGETAL RECORDS

RECORDS

Summit Mine

Patrol G.P. 18

REPORTS

SHIPMENT AND ASSAY RECORDS

MAPS

Tracings of claim + underground maps by JEF
6/15/38

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