STATE DEPT. OF GEOLOGY 1069 State Office Building Portland 1, Oregon

Memerandum

ARNOLD MINE (Au)

Waldo District Josephine County

Owners: H. J. and M. L. Arnold, Jacksonville, Oregon.

Location: Worth center of NEt of sec. 16, T. 41 S., R. 5 W., at 5660 feet elevation. The mine is reached via the Cougar Creek-Whiskey Peak road. From Carberry Creek it is approximately 8 miles to Low Gap junction. The road to the right through Low Gap is 1 mile to a second junction, from which it is .8 mile via the left-hand road to the mine.

History: Five claims were located by Esra Arnold in 1915. A tunnel was driven since 1934. (See report by Treasher, 1941).

Development: The 1.8 miles of road from Low Gap was extended from the new road to Cynthia Chrome Mine in summer of 1957. The tunnel enceunters a quarts vein at 130 feet and drifts 90 feet on the vein (60 feet NW and 30 feet SE). North and east of the portal the vein has been exposed by a trench 130-feet long, 3 feet wide, and 3 feet deep. A partly caved cut (probably the original discovery) is located north of the portal. A two stamp mill and cabin are located at the end of the road below the tunnel.

Geology: The deposit is in metasedimentary rocks of the Applegate formation. Argillite exposed at the portal strikes N. 30° E. and dips 45° SE. A fractured some containing quarts is cut by the tunnel at 70 feet. At this point the tunnel bends northwest (left) for a short distance then continues on 60 feet more in a northeast direction to the main quarts vein. The vein strikes N. 45° W. and dips 43° ME. It varies thickness from 10 inches up to approximately 2½ feet with an average/ef about 20 inches. In places it consists of two or more closely-spaced, papallel

quarts veins separated by altered rock.

About 50 tons of broken quarts are stacked beside the portal. A representative sample of this pile (RG-441, P-21967) assayed 0.60 cs./ton Au and 0.70 cs./ton Ag. The quarts contains minor amounts of pyrite, galena, sphalerite (?) and chalcopyrite. Average tenor of the ore is reported to be \$20.

Visited: 9/12/57.

Report by: Len Ramp 11/7/57.

Reference: Treasher, R. C., Jos. Co. Metal Mines Handbook, Bull.

14-C, vol. 2, sec. 1, p. 180, 1941.

* * * * * *

State Department of Geology and Mineral Industries

702 Woodlark Building Portland, Oregon

ARNOLD MINE (gold)

WALDO AREA

Owners: H. J., & M. L. Arnold, Jacksonville, Oregon.

Location: center sec. 16, T. 41 S., R. 5 W., elev. 5500 feet; #132 on Grants Pass geologic map; southwest of Whiskey Pk., and southeast of Lake Peak.

Area: Five claims, staked in 1914-1915 by E. Arnold.

Development: At least two tunnels. Lower tunnel driven since 1934.

500-500 tons removed before 1934; 100 tons since then.

There is a small mill having two stamps and amalgamation plates.

Geology: The mine is located in metasediment near a serpentine contact.

The ore is quartz with gold and a small amount of sulfides.

Average tenor of ore is \$20. Ratio of gold to silver is
6-8 oz. gold to 1 oz. silver.

General: The property is operated by Arnold Brothers, who mine and mill the ore is a small way. It is reported that this is one of the best little high-grade prospects in the area.

Report by: RCT, 1941 (Francis G. Wells)

OLD NAMES

MINOR MINERALS

41 South 5 West 16	PUBLISHED REFERENCES
T R S	Ore. M. M. Handbk. 14-C Vol.II Sec.1
5500 ELEVATION	MISCELLANEOUS RECORDS
ROAD OR HIGHWAY	
DISTANCE TO SHIPPING POINT	
PRESENT LEGAL OWNER (S) H.J. and M. J. Arnold	Address Jacksonville, Oregon
***************************************	***************************************
******************	•••••••••••••••••••••••••••••••••••••••
*****************	***************************************
OPERATOR	***************************************
Name of claims Area Pat. Unpat.	Name of claims Area Pat. Unpat.
Five unpatented claims.	
<u>'</u>	
EQUIPMENT ON PROPERTY	
Two stamp mill and analgamation plates.	

PAUL 9471

CRIB MINERAL RESOURCES FILE 12

RECORD IDENTIFICATION

RECORD NO...... M061140

RECORD TYPE.... X1M

COUNTRY/ORGANIZATION. USGS

DEPOSIT NO. DDGMI 100-466

MAP CODE NO. OF REC ..

REPORTER

NAME...... JOHNSON, MAUREEN G.

UPDATED..... 81 02

BY..... FERNS, MARK L. (BROOKS, HOWARD C.)

NAME AND LOCATION

DEPOSIT NAME..... ARNOLD MINE

MINING DISTRICT/AREA/SUBDIST. WALDO

COUNTRY CODE JS

COUNTRY NAME: UNITED STATES

STATE CODE OR

STATE NAME: DREGON

COUNTY JOSEPHINE

DRAINAGE AREA..... 1801209 CALIFORNIA

PHYSIOGRAPHIC PROV..... 13 KLAMATH MOUNTAINS

LAND CLASSIFICATION 41

QUAD SCALE QUAD NO OR NAME 1: 62500 DREGON CAVES

LATITUDE LONGITUDE 42-00-20N 123-17-26W

UTM NORTHING UTM EASTING UTM ZONE NO 4650229.8 475946.3 +10

TWP 415

RANGE.... D5N SECTION.. 16

MERIDIAN. W.M.

HERIDIANS BOAS

LOCATION COMMENTS: N 1/2 NE 1/4

OCCURRENCE(S) OR POTENTIAL PRODUCT(S):
POTENTIAL.....
OCCURRENCE..... PB CU ZN

DRE MATERIALS (MINERALS, ROCKS, ETC.):
PYRITE; GALENA; SPHALERITE, CHALCOPYRITE

COMMODITY SUBTYPES OR USE CATEGORIES: 3.61 AU:AG

COMMODITY COMMENTS: RATID AU:AG=6-3 DZ AU:1 DZ AG

ANALYTICAL DATA (GENERAL)

DDGNI SAMPLE ASSAYED 0.60 DZ/TON AU; 0.70 DZ/TON AG

EXPLORATION AND DEVELOPMENT STATUS OF EXPLOR. OR DEV. 8

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES: QUARTZ VEIN * FORM/SHAPE OF DEPOSIT:

SIZE/DIRECTIONAL DATA
SIZE OF DEPOSIT..... SMALL
MAX WIDTH...... 20 INCH
STRIKE OF DREBDDY.... NW
DIP OF DREBDDY.... NE

DESCRIPTION OF WORKINGS SURFACE AND UNDERGROUND

COMMENTS(DESCRIP. OF WORKINGS): TRENCH 180, ADIT 220

PRODUCTION
YES
SMALL PRODUCTION

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

TTEM ACC AMOUNT THOUS.UNITS YEAR GRADE, REMARKS

1 ORE EST .600 TONS AVERAGE \$20/TON AU

2 ORE SML .056 TONS .967 DZ/T

- 056 OZ .268 DZ/T

SOURCE OF INFORMATION (PRODUCTION) .. USBM

GEDLOGY AND MINERALDGY

AGE OF HOST ROCKS..... PERM-TRI
HOST ROCK TYPES.... METASEDIMENTS
IGNEDUS ROCK TYPES.... SERPENTINE

IMPORTANT DRE CONTROL/LOCUS.. NEAR CONTACT

LOCAL GEOLDGY

NAMES/AGE OF FORMATIONS, UNITS, OR ROCK TYPES

1) NAME: APPLEGATE GROUP

AGE: PERM-TRI

GENERAL COMMENTS

RECORD NUMBER (MO13345) HAS BEEN MERGED WITH THIS RECORD AND DELETED FROM THE DREGON FILE

GENERAL REFERENCES

- 1) RAMP, L. AND PETERSON, N.V., 1979, GEDLOGY AND MINERAL RESDURCES OF JOSEPHINE COUNTY, OREGON; ODGMI BULL. 100, 45P
- 2) BROOKS, H.C. AND RAMP, L., 1968, GOLD AND SILVER IN OREGON, DOGMI BULL. 61, P.246
- 3) DREGON METAL MINES HANDBOOK, 1942, DDGMI BULL. 14-C, VDL. 2, SEC. 1, P.180

2033 First Street Baker, Oregon

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
1069 State Office Building
Portland 1, Oregon

239 S.E. "H" Stre Grants Pass, Oreg

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.

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 9-17-57
Name (or names) of owners of the property M. L. & H. D. Arnold
Are you hiring labor? No Are you milling or shipping ore? No
Name of claim sample obtained from Arnold Mine
Location of property or source of sample (If legal description is not known, give location with reference to known geographical point.)
County
Township 41 S Range 5 W Section 16 Quarter section N center
How far from passable road? <u>End extension of Low Gap road</u> Name of road
Channel (length) Grab Assay for Description
Sample no. 1 20', 18" interval x Au, Ag Picked across ore pile of about
Sample no. 2
(Samples for assay should be at least 1 pound in weight)
(Signed)L.R.
DO NOT WRITE BELOW THIS LINE - FOR OFFICE USE ONLY - USE OTHER SIDE IF DESIRED
Sample Description Fractured quartz with minor disseminated sulphides (pyrite, galer
sphalerite (?), and chalcopyrite.)
Sample GOLD SILVER
number cz./T. Value cz./T. Value
RG-441 P-21967 0.60 \$21.00 0.70 \$0.64
Report issued Card filed Report mailed 9-25-57 Called for