CRIB MINERAL RESOURCES FILE 12

RECORD IDENTIFICATION
RECORD NO: MO61048
RECORD TYPE: XI0
COUNTRY/ORGANIZATION: USGS
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: WHITNEY
MINING DISTRICT/AREA/SUBDIST: GOLD HILL
COUNTRY CODE: US
COUNTRY NAME: UNITED STATES
STATE CODE: OR
STATE NAME: OREGON
COUNTY: JACKSON
DRAINAGE AREA: 17 ROGUE RIVER
PHYSIOGRAPHIC PROV: 13 KLAMATH MOUNTAINS
LAND CLASSIFICATION: 00

QUAD SCALE
1: 62500
QUAD NO OR NAME: GOLD HILL

LATITUDE
42-27-05N
LONGITUDE
123-00-49W

UTM NORTING
4699670.1
UTM EASTING
498860.0
UTM ZONE ND
+10

TP: 365
RANGE: 03W
SECTION: 13
MERIDIAN: WILLAMETTE

LOCATION COMMENTS: NE 1/4 SW 1/4

COMMODITY INFORMATION
COMMODITIES PRESENT: AU, CU
REPRESENTATIVE OR PRESENT: 
ORE MATERIALS (MINERALS, ROCKS, ETC.):
GOLD, CHALCOPYRITE

EXPLORATION AND DEVELOPMENT
STATUS OF EXPLOR. OR DEV. B

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:
  VEIN *

FORM/SHAPE OF DEPOSIT: STRINGERS

SIZE/DIRECTIONAL DATA
  SIZE OF DEPOSIT: SMALL
  MAX WIDTH: 5 FT
  STRIKE OF DEPOSIT: N67W
  DIP OF DEPOSIT: 65S

DESCRIPTION OF WORKINGS

COMMENTS (DESCRIPTION OF WORKINGS):
OVER 450 FEET OF WORKINGS IN TWO ADITS.

PRODUCTION
YES
SMALL PRODUCTION

CUMULATIVE PRODUCTION (ORE, COMMOD., CONC., OVERBUR.)

<table>
<thead>
<tr>
<th>ITEM</th>
<th>ACC AMOUNT</th>
<th>THOUS. UNITS</th>
<th>YEAR</th>
<th>GRADE</th>
<th>REMARKS</th>
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<tbody>
<tr>
<td>15 AU</td>
<td>SMALL</td>
<td></td>
<td>1914</td>
<td></td>
<td></td>
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<tr>
<td>23 AU, OCCUR</td>
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GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS: PERM-TRI
HOST ROCK TYPES: PYROXENITE HORNFELS HORNFELS

AGE OF ASSOC. IGNEOUS ROCKS: LJUR-CRET
IGNEOUS ROCK TYPES: GRANODIORITE

PERTINENT MINERALOGY: QUARTZ, CLAY, MAGNETITE

LOCAL GEOLOGY
NAMES/AGE OF FORMATIONS, UNITS, OR ROCK TYPES
WHITNEY MINE (gold) Gold Hill area

General: Parks & Swartley reported as follows:

"The Whitney mine 2 miles east of Gold Hill is in the N.E.¼ S.W.¼ sec. 13, T. 36 S., R. 3 W., in a coarse subsiliceous rock not far west of the tonalite border. The main entry at an elevation of 1375 feet, is a crosscut for 130 feet; at 10 feet from the portal a vein said to have produced high grade ore strikes N. 50° W. and dips 60° S.W. At 70 feet from the portal a drift follows vein No. 1 for 290 feet; this vein contains 2 to 5 feet of soft material with stringers of quartz; it strikes N. 67° W. and dips 55° to 75° S.W. At the breast of the crosscut a raise follows vein No. 2 which has a 3-foot vein-filling like the preceding and is about parallel with it. In these workings small stringers of aplite are common generally standing about vertical and trending north. In another adit only 20 feet vertically higher, the No. 2 vein is found to be in a granitic dike while the No. 1 vein is on the granite contact about 30 feet distant. At this level the latter is a shear zone carrying a little quartz. Several smaller veins have been explored for short distances. One of them contains some chalcopyrite in places. At the intersections of these veins with the larger ones good ore has been found. A subsiliceous rock containing considerable magnetite is associated with these veins and not found elsewhere on the hill. It appears to be a contact phase rather than a separate intrusion. In thin section it is found to consist of coarse augite and magnetite with a little olivine and brown hornblende."

Reference: Parks & Swartley, 16:236 (quoted).