

CRIB MINERAL RESOURCES FILE 12

RECORD IDENTIFICATION

RECORD NO..... NO15604
 RECORD TYPE..... X1M
 COUNTRY/ORGANIZATION. USGS
 DEPOSIT NO..... DDGMI 93-82
 MAP CODE NO. OF REC..

REPORTER

NAME..... BRADLEY, R.; WALKER, G. W.
 DATE..... 79 09
 UPDATED..... 81 02
 BY..... FERNS, MARK L. (BROOKS, HOWARD C.)

NAME AND LOCATION

DEPOSIT NAME..... CEDAR SPRINGS LATERITE

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

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

COUNTY..... CURRY
 DRAINAGE AREA..... 1810101 CALIFORNIA
 PHYSIOGRAPHIC PRDV..... 13 KLAMATH MOUNTAINS
 LAND CLASSIFICATION..... 41

QUAD SCALE QUAD NO OR NAME
 1: 62500 CHETCO PEAK (1954)

LATITUDE LONGITUDE
 42-02-40N 123-51-06W

UTM NORTHING UTM EASTING UTM ZONE NO
 4654835. 429525. +10

TWP..... 040S
 RANGE..... 010N
 SECTION.. 35
 MERIDIAN. WILLAMETTE

POSITION FROM NEAREST PROMINENT LOCALITY: ALONG COOK RD. AND ACROSS CHETCO DIVIDE TRAIL RD.

COMMODITY INFORMATION

COMMODITIES PRESENT..... NI CO CR

ORE MATERIALS (MINERALS, ROCKS, ETC.)

EXPLORATION AND DEVELOPMENT
STATUS OF EXPLOR. OR DEV. 4

WORK DONE BY OTHER ORGANIZATIONS

YEAR WORK TYPE ORGANIZATION AND RESULTS

- 1) 1975 DIREXPL LEN RAMP - SEVEN HAND-AUGER SAMPLES
- 2) 1977 DIREXPL INSPIRATION DEVELOPMENT COMPANY, U.S. BUREAU OF MINES

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:

LATERITES

FORM/SHAPE OF DEPOSIT:

SIZE/DIRECTIONAL DATA

SIZE OF DEPOSIT..... MEDIUM
 DEPTH TO BOTTOM..... 40 FT
 MAX LENGTH..... 0.75 MI
 MAX WIDTH..... .25 MI

COMMENTS(DESCRIPTION OF DEPOSIT):

ESTIMATED AMT. OF UNWEATHERED RX IN SOIL IS ESTIMATED TO BE 45 % BY VOLUME

PRODUCTION

YES

GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS..... JUR
 HOST ROCK TYPES..... SERPENTINE
 IGNEOUS ROCK TYPES..... SMALL DIABASE AND DACITE DIKES

AGE OF MINERALIZATION..... CEN

LOCAL GEOLOGY

NAMES/AGE OF FORMATIONS, UNITS, OR ROCK TYPES

- 1) NAME: JOSEPHINE PERIDOTITE
- AGE: JUR

COMMENTS (GEOLOGY AND MINERALOGY):

AREA IS UNDERLAIN BY PARTLY SERPENTIZED HARZBURGITE, WITH SOME DUNITÉ AND SERPENTINITE. MAIN AREA OF LATERITIC SOIL LIES SW OF CONTACT WITH LARGE COMPLEX DIORITIC BODY.

GENERAL REFERENCES

- 1) RAMP, LEN, 1978, INVESTIGATIONS OF NICKEL IN OREGON: DDGMI NISC. PAPER NO. 20, P. 20 - 22
- 2) RAMP, L. AND OTHERS, 1977, GEOLOGY, MINERAL RESOURCES AND ROCK MATERIAL OF CURRY COUNTY, OREGON; DDGMI BULL. 93

Waldo

CEDAR SPRINGS DEPOSIT

- Ownership: Walter B. Freeman and associates, Cave Junction
- Location: Sec. 35, T. 40 S., R. 10 W., between 1,206 and 1,231 meters elevation; mainly on the east side of Chetco Divide Road - Trail; largely in Josephine County but extending into Curry County. The area is 16 miles from O'Brien on U.S. 199 via Wimer Road for 13 miles and the Chetco divide Road for 3 miles. The area is on the 15-minute Chetco Peak quadrangle.
- Exploration and Development: A few hand-auger samples. No development
- History: None.
- Vegetation and Climate: The area gets about 140 centimeters annual precipitation. This occurs mainly in the period of October through May. Snow generally covers the ground during the period from late November through May. Vegetation includes rhododendron, azalea, knob-cone, lodge pole, sugar and Jeffrey pines; Port Orford cedar; cascara; live oak shrubs. Ground cover is generally sparse but a few areas have fairly thick brush.
- Geology: The bedrock is peridotite, var., harzburgite with some dunite and partly serpentized peridotite. The deposit lies about 200 yards southwest of the contact with a large body of granodiorite. Aerial photo interpretation indicates the possibility of 2 or 3 other small patches of lateritic soil development to the northwest, also adjacent to the diorite contact, and two other small patches about 1 mile east of the main deposit. Time hasn't been taken to examine these areas on the ground as yet.

Cedar Springs Deposit

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Area: The deposit examined contains about 38 hectares lying in an elongate oval-shaped depression on the flat ridge top. ³ Five other small patches not examined, of possible lateritic soil, show ^{on} aerial photos ^{AND} are plotted on the accompanying photogeologic map but ^{ARE} not figured in the potential tonnage.

Depth: Seven auger samples taken penetrated from 30 inches to 10 feet depth. The estimated maximum depth is about 14 meters and the average depth is estimated to be about 2.5 meters.

Tonnage: Estimated total tonnage rock, soil, and saprolite in the total area to 2.5 meters depth would be about 1,767,000 metric tons (1 cu.m.= 1.86 m.t.)

Estimated net tonnage of soil and saprolite excluding 57 percent (estimated) rock = 654,417 metric tons (1 cu.m.= 1.60 m.t.)

Grade: Average of the 7 auger samples of soil and saprolite = 0.63 percent Ni and 0.^{.12}~~18~~ percent Co. Estimated grade of the gross tonnage = 0.40 percent Ni.

References: Department of Geology & Mineral Industries Bull 40, Wells et al, 1949
Preliminary description of the geology of the Kerby Quad., Ore.

Report by: Len Ramp 10-21-75

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