CRIB MINERAL RESOURCES FILE 12

RECORD IDENTIFICATION
RECORD NO. M015597
RECORD TYPE. X1M
COUNTRY/ORGANIZATION. USGS
DEPOSIT NO. DDGM1 93-79
MAP CODE NO. OF REC.

REPORTER
NAME. BRADLEY, ROBIN; WALKER, GEORGE W.
DATE. 79 03
UPDATED. 81 04
BY. FERNS, MARK L. (BROOKS, HOWARD C.)

NAME AND LOCATION
DEPOSIT NAME. SPOKANE CREEK LATERITE
SYNONYM NAME. MCKEE GROUP

COUNTRY CODE. US
COUNTRY NAME. UNITED STATES
STATE CODE. OR
STATE NAME. OREGON
COUNTY. CURRY
DRAINAGE AREA. 18010101 CALIFORNIA
PHYSIOGRAPHIC PROV. 13 KLAMATH MOUNTAINS
LAND CLASSIFICATION. 43

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

LATITUDE. 42-04-23N
LONGITUDE. 123-54-07W

UTM NORTHING. 4658060
UTM EASTING. 425375
UTM ZONE NO. +10

TWP. 040S
RANGE. 010W
SECTION. 09 09 15 16 17
MERIDIAN. WILLAMETTE

COMMODITY INFORMATION
COMMODITIES PRESENT. NI

MAIN COMMOD. NI
EXPLORATION AND DEVELOPMENT

STATUS OF EXPLOR. OR DEV. 2

WORK DONE BY OTHER ORGANIZATIONS

YEAR WORK TYPE ORGANIZATION AND RESULTS

1) 1971 DIREXPL INSPIRATION DEVELOPMENT CO. RECONNAISSANCE SAMPLING AND MAPPING

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:
  LATERITES

FORM/SHAPE OF DEPOSIT:

SIZE/DIRECTIONAL DATA

SIZE OF DEPOSIT: SMALL
MAX THICKNESS: AVERAGE 10 FT

COMMENTS (DESCRIPTION OF DEPOSIT):
  AVERAGE VOLUME OF ROCK IN SOIL IS 0.54 % NI

PRODUCTION

UNDETERMINED

COMMENTS (RESERVES/POT RESOURCES): FURTHER EXPLORATION OF THE AREA MAY BE WARRANTED.

GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS: JUR

HOST ROCK TYPES: LATERITES

IGNEOUS ROCK TYPES: INTRUSIONS OF DIKES TO FAIRLY LARGE BODIES RANGING IN COMPOSITION FROM QUARTZ DIORITE AND DACITE TO DIABASE AND GABBRO

LOCAL GEOLOGY

NAMES/AGE OF FORMATIONS, UNITS, OR ROCK TYPES

1) NAME: JOSEPHINE PERIDOTITE
   AGE: JUR

SIGNIFICANT ALTERATION:
  SERPENTINIZATION

COMMENTS (GEOLOGY AND MINERALOGY):
  AREA IS UNDERLAIN BY HARZBURGITE. SMALL AREAS OF SOIL APPEAR TO BE EROSIONAL REMNANTS OF MORE EXTENSIVE LATERITI

GENERAL REFERENCES

1) RAMP, L. E., 1978 , INVESTIGATIONS OF NICKEL IN OREGON: OGGMI MISC. PAPER NO. 20, P. 40 - 41
2) RAMP, L. A. AND OTHERS, 1977, GEOLOGY, MINERAL RESOURCES AND ROCK MATERIAL OF CURRY COUNTY, OREGON; OGGMI BULL. 93
SPOKANE CREEK LATERITE
(McKee Cabin Group Nickel Prospects)

Ownership: A group of claims called the McKee Group were located by Inspiration Mining Company in 1971. These claims have reportedly since been dropped (Boies Hall, personal communication).

Location: N½ sec. 16 (?) T. 40 S., R. 10 W. One small patch of laterite between about 993 and 1,000 meters elevation. Three other nearby patches plotted from aerial photos but not visited are to the east about 4/5 and 1-1/5 kilometers in sec. 15 (?) and an apparent larger patch about 1.6 kilometers to the north in secs. 8 and 17. (This area is unsurveyed and section lines are protected from adjacent townships and are only approximate).

The area may be reached via the Wimer Road, Chetco Divide Road and Cook Road and trail to the McKee Cabin and Bald Eagle gold placer on Spokane Creek; then by hiking up the old placer ditch and Spokane Creek and across country to the areas shown on the accompanying map. The distance from O'Brien to the area is about 39 kilometers and the last 9 or 12 kilometers is on foot depending on how far down the Cook trail one decides to drive.

Climate, vegetation and land use: The average annual precipitation for the area is estimated to be 150 cm. The average summer temperature is about 16° C and in winter, about 4° C.

The vegetative cover is scrub pine, mostly knob cone, and sparse brush typical of ultramafic rocks in this climate. Land in the immediate area has had little or no use. Minor amount of placer mining has been done on lower Spokane Creek and some logging on the timbered areas to the east and west of the ultramafic rocks.
Area: The patch visited, about 0.8 kilometer east of upper Spokane Creek in sec. 16, is about 8 hectares. The two small photo-indicated areas to the east are about 2 and 4 hectares respectively, and the larger area to the north is about 24 hectares.

Geology: The area is underlain by peridotite (harzburgite) which is in places altered to serpentinite. The small areas of soil appear to be erosional remnants of a once more extensive lateritic soil cover. The larger area to the north looks somewhat like a slump or slide area and should be investigated on the ground.

The ultramafic rocks have been intruded by a number of small dikes and by fairly large bodies of igneous rock ranging in composition from quartz diorite and dacite to diabase and gabbro. These areas can be readily mapped from aerial photos due to their relatively dense vegetative cover.

Description of deposit: The patch of soil on the bench in the N½ sec. 16 appears to be quite rocky and shallow over much of its area and has about 85 percent rock showing on the surface as at sample No. 1; while parts of the area look relatively free of rock as near sample No. 2 (both samples were taken to 9 feet of depth).

Several rocks were encountered at No. 1 site while none were hit in hole No. 2. Average depth of soil in this patch is estimated to be 3 meters and the average content of rock in soil (60 percent).

Grade and tonnage: The average grade of soil and saprolite in the prospect is probably about 0.50 percent Ni. This 8 hectare patch to 3 meters depth would contain about 450,000 metric tons of rock and soil and figuring 60 percent rock average would contain about 150,000 metric tons of soil and saprolite. Grade of the bulk tonnage is calculated to be about 0.37 percent Ni.
Spokane Creek Laterite

Area: 8 hectares = 80,000 m²

<table>
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<tr>
<th>Sample</th>
<th>Auger Type</th>
<th>Ni</th>
<th>Co</th>
<th>Cr₂O₃</th>
<th>Ni</th>
<th>Co</th>
<th>Cr₂O₃</th>
<th>Fe</th>
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<tbody>
<tr>
<td>Sample 1</td>
<td>9' auger</td>
<td>0.41</td>
<td>0.19</td>
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<td>Sample 3</td>
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Estimated averages

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<tr>
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<tbody>
<tr>
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<td>Fe</td>
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Matrix

Probability

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<tr>
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<tr>
<td>25%</td>
<td>675,000</td>
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Report by: L. Ramp 10-20-75