

## RECORD IDENTIFICATION

RECORD NO..... MO15597  
 RECORD TYPE..... XIM  
 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            QUAD NO OR NAME  
 1: 62500            CHETCO PEAK ( 1954 )

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

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

TWP..... 040S  
 RANGE..... 010W  
 SECTION.. 08 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 10FT

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 LATERITE  
SOIL COVER.

GENERAL REFERENCES

1) RAMP, LEN, 1978, INVESTIGATIONS OF NICKEL IN OREGON: ODGMI MISC. PAPER NO. 20, P. 40 - 41

2) RAMP, L. AND OTHERS, 1977, GEOLOGY, MINERAL RESOURCES AND ROCK MATERIAL OF CURRY COUNTY, OREGON; ODGMI BULL. 93

Chetco

Name: 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. <sup>Some of</sup> These claims have reportedly since been dropped (Boies Hall, personal communication).

Location: N $\frac{1}{2}$  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~~ <sup>14</sup> apparent larger patch <sup>25</sup> about 1.6 kilometers to the north and <sup>1/2</sup> kilometers west in <sup>secs 8 and 17.</sup> in secs. 4 and 9 (?) <sub>AR</sub> (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 .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. Another area of about 30 hectares lies <sup>across Spokane Creek</sup> about 1.2 kilometers west of the visited patch.

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 <sup>125</sup> 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 N $\frac{1}{2}$  sec. 16 appears to be quite rocky and shallow over much of its area and has about <sup>25</sup> 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 <sup>augered</sup> 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 <sup>about 10 feet</sup> 3 meters, and the average content of rock in soil <sup>about 50 percent.</sup> (- 60 percent.)

Grade and tonnage: The average grade of soil and saprolite in the prospect is probably about 0.50 percent Ni. This <sup>20 acre</sup> (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. <sup>has an estimated average depth of about 10 feet</sup>

Spokane Creek Laterite

Area: 8 hectares = 80,000 m<sup>2</sup>

		<u>DOGAMI (%)</u>			<u>USBM (%)</u>			
		<u>Ni</u>	<u>Co</u>	<u>Cr<sub>2</sub>O<sub>3</sub></u>	<u>Ni</u>	<u>Co</u>	<u>Cr<sub>2</sub>O<sub>3</sub></u>	<u>Fe</u>
Sample 1	9' auger	0.41	.19		.37	.03	.98	16.6
Sample 2	9' auger	0.54	.11		.50	.04	1.33	21.7
Sample 3	5' 2" auger	0.61	—	0.87	—	—	—	—

<u>Estimated averages</u>	<u>Rock &amp; Soil</u>	<u>Soil</u>
Ni.	.37	.50
Co	.04	.07
Cr <sub>2</sub> O <sub>3</sub>	.75	1.16
Fe	12.5	19.2

Probability	<u>Matrix</u>	
	<u>Grade<sub>1</sub></u>	<u>Grade<sub>2</sub></u>
50%	<u>.37</u> 450,000	<u>.50</u> 150,000 tonnes
25%	675,000	225,000 tonnes

References: Wells, F. G., Hotz, P. E., and Cater, F. W., Jr., 1949, Preliminary description of the geology of the Kerby (30 minute) quadrangle, Oregon. Oregon Dept. Geol. and Min. Indus. Bull. 40, 23 p. and geol. map.

Report by: L. Ramp 10-20-75