

State Department of Geology and Mineral Industries

702 Woodlark Building
Portland 5, Oregon

BUCKHORN CHROMITE

8597

Riddle Dist.
Douglas Co.

RYA

Owners: R. L. and E. A. Thrush, Camas Valley, Oregon.

Location and Area: Four (?) claims have been located in Sec. 1, T. 30 S., R. 7 W. The prospects are reached via the road up Rice Creek which branches west from the old Highway 99 about one mile south of Dillard. Rice Creek road branches in several places. One must go straight ahead after crossing the South Umpqua River and keep left except at the junction 5.7 miles from the highway, and also at 7.8 miles where the road to the right is very steep. From about 8.5 miles during wet weather one must walk about $\frac{1}{2}$ mile eastward to a point near the east edge of the narrow serpentine stringer.

History: This is a new prospect. No ore has been shipped. It was visited at request for inspection submitted 3/28/55 by R. L. Thrush.

Development Work: More work has been done on the northern claim, the Buckhorn. There were two bulldozer cuts 10 feet wide, 12 feet at the deepest point, and about 50 feet long which trend about N. 50° W. and are about 4 feet apart. Also the soil had been scraped off the serpentine in a few places in search for chromite.

Geology: A narrow stringer of serpentine trending about N. 20° E. is from 200 feet to more than 100 yards wide. It is intruded into and surrounds numerous small inclusions of greenstone. A tongue of Lower Cretaceous or Upper Jurassic sediments is mapped on the Riddle quadrangle as Knoxville formation. It overlies the greenstone.

A small quantity of high grade chromite float and one chunk, found in place, which was about $1\frac{1}{2}$ feet in diameter were found near the cuts.

The cuts expose an area of highly sheared serpentinite and a hard, 4 foot wide inclusion of metavolcanic (?) rock (greenstone) which is also highly sheared, and has lighter green chloritic serpentinite on either side. Shearing in the serpentinite and this hard inclusion trend about N. 20° E. and dip 57° SE. The chunk or small kidney of chromite was found in the northern cut against the upper edge of the greenstone inclusion in a black highly sheared pitchy looking serpentinite. It was just beneath the soil zone and was surrounded by a narrow iron-stained shear. No leads were found beneath this kidney. Less than two tons of 53%, 3.5-1 grade chromite had been recovered.

About $\frac{1}{4}$ mile south of the dozer cuts the serpentinite stringer widens and curves toward the southwest. It is apparently offset to the southeast about 150 feet by a northwest trending fault. At this point a small amount of float chromite was also found but none could be found in place in the shallow bulldozer excavation.

Another $\frac{1}{4}$ mile southwest of the above location, several 5 to 15 pound boulders of float chromite and smaller pieces were traced up to about 200 feet above the contact near Thompson Creek. This location is in the S.W. cor. N.W. $\frac{1}{4}$ sec. 1, T. 30 S., R. 7 W. and according to E. A. Thrush is on private land. No excavation work had been done at this location.

Returning northward up the ridge to the Jeep, a fairly large area of light-colored chert rubble was noted in the NW $\frac{1}{4}$ of sec. 1, T. 30 S., R. 7 W.

Report by: L. R. 3/31/55.

Visited: 3/30/55

Informants: R. L. & E. A. Thrush

Reference: Diller, J. S. and Kay, G. F., Riddle Folio, 1924.

RECORD IDENTIFICATION

RECORD NO..... M061216
RECORD TYPE..... X1M
COUNTRY/ORGANIZATION. USGS
DEPOSIT NO..... DDGM1 75-4
MAP CODE NO. OF REC..

REPORTER

UPDATED..... 81 02
BY..... FERNS, MARK L. (BROOKS, HOWARD C.)

NAME AND LOCATION

DEPOSIT NAME..... BUCKHORN

COUNTRY CODE..... US

COUNTRY NAME: UNITED STATES

STATE CODE..... OR

STATE NAME: OREGON

COUNTY..... DOUGLAS

DRAINAGE AREA..... 171003002 PACIFIC NORTHWEST

PHYSIOGRAPHIC PROV..... 13 KLAMATH MOUNTAINS

LAND CLASSIFICATION..... 00

QUAD SCALE QUAD NO OR NAME
1: 62500 CANYONVILLE

LATITUDE LONGITUDE
42-59-43N 123-28-30W

UTM NORTHING UTM EASTING UTM ZONE NO
4760196.2 461290.7 +10

TWP..... 030S
RANGE..... 007W
SECTION.. 01
MERIDIAN. W.M.

ALTITUDE.. 2000

COMMODITY INFORMATION

COMMODITIES PRESENT..... CR

PRODUCER(PAST OR PRESENT):
MAJOR PRODUCTS.. CR

ORE MATERIALS (MINERALS,ROCKS,ETC.):

Riddle Dist

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:

MASSIVE CHROMITE

FORM/SHAPE OF DEPOSIT: LENS; FLOAT

SIZE/DIRECTIONAL DATA

SIZE OF DEPOSIT..... SMALL

STRIKE OF OREBODY.... N 20 E

DIP OF OREBODY..... 57 SE

COMMENTS(DESCRIPTION OF DEPOSIT):

IN 300 FT WIDE SHEAR ZONE

DESCRIPTION OF WORKINGS

SURFACE

PRODUCTION

YES

SMALL PRODUCTION

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

ITEM	ACC	AMOUNT	THOUS. UNITS	YEAR	GRADE, REMARKS
1 ORE EST		0000.002	TONS	1955	HIGH GRADE FLOAT
21 TOTAL		.002	TONS		

GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS..... JUR

HOST ROCK TYPES..... SERPENTINITE

GENERAL REFERENCES

- 1) RAMP, LEN, 1961, CHROMITE IN SOUTHWESTERN OREGON: OREGON DEPT. GEOLOGY AND MINERAL IND. BULL. 52, 169 P.
- 2) RAMP, L., 1972, GEOLOGY AND MINERAL RESOURCES OF DOUGLAS COUNTY, OREGON; DDGMI BULL. 75, P.19