

confidential

NOV 29 1940

STATE DEPT. OF GEOLOGY
& MINERAL INDS.

CASS RANCH CHROMITE

UPPER APPLGATE

The following information is obtained from the field notes of the U. S. Geol. Survey of the Medford Quadrangle and is CONFIDENTIAL information until it is released by the U.S.G.S. Please treat it as strictly confidential, or it might wreck amiable relationships with the U.S.G.S. party, and hinder exchange of information.

Chrome prospect, west center of section line between secs. 29, 32, T. 39 S., R. 1 W., on Little Applegate opposite Brickpile Ranch. Work consists of a cut which trends N. 82 E., had a depth of 12 ft., a length of 15 ft. and a width of 10 ft. The chrome is completely mined out, - a few sacks of ore still remain on the "dump".

Rocks (ore?) occurs in serpentine as small segregations. Ore is fairly rich, being in large part made of clots of chromite with silice (?) minerals between. Country rock is greenish and hard with no apparent schistosity altho there is definite cleavage directions N 25 W, 42° SW. Major jointing N. 64 E., vertical. Soil is buff color and has scattered vegetation; majority of slope is grass covered. The rock around the prospect is a brownish weathering, fine-grained greenish rock with a sugary texture carrying flecks of chromite.

According to notes made by J. S. Diller, dated Nov. 14, 1918, he says:

~~721/222/1/1/T.~~ "Applegate chrome group, secs. 29, 31, 32, T. 39 S., R. 1 W., includes 4 claims. Reported by Alva Gunnell of Sierra Metals Corp. to be near contact of limestone and serpentine. The Sierra Metals Co. of which Alva Gunnell is pres. & mgr. appears to include the claims worked by Mr. Horn as well as those of Munger Group in Josephine County".

"Horseshoe Chrome Group, sec. 5, T. 40 S., R. 1 W. James Reynolds & Edward Spence associated with L. A. Van Horn in this group".

"For the above -- 45 tons out & 50 tons in sight. Total available, 95 tons of 45% ore. Shipped; none by rail, but 45 tons by trail to within 5 miles of Talent on SPRR. Drop in price stopt work. No considerable development work - pack 4 miles by way of Wagner Cr. to road, yet to haul 5 miles to reach Talent for shipment. Claims not examined - data reported by Alva Gunnell and L. H. Van Horn."

NOV 29 1940

STATE GEOLOGY
& MINERAL INDS.

CONFIDENTIAL

HORSESHOE CHROME CLAIMS

UPPER APPLIGATE

The following information is obtained from the field notes of the U. S. Geological Survey, Medford quad. and is CONFIDENTIAL. information until it is released by the U.S. GS. Please treat it as strictly confidential, or it might wreck amiable relationships with the U.S.G.S. party, and hinder exchange of information.

Upper side hill trail to Brickpile Ranch extreme NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 4, 5, T. 40 S., R. 1 W. Caved tunnel striking N 80 E. Entrance caved so no opening visible but assume it is a tunnel and not merely ditch because ground a few feet above and on strike is somewhat caved. Dump is small and only chrome ore visible is rather low grade.

Ore is in place green somewhat granular serpentine which has been sheared. Chrome occurs as thin bands or somewhat spotted though former is commonest.

See also Cass Ranch Chrome confidential report, for J. S. Diller's notes on the Horseshoe claims.

RECORD IDENTIFICATION

RECORD NO..... M061180
RECORD TYPE..... X1M
COUNTRY/ORGANIZATION. USGS
MAP CODE NO. OF REC..

REPORTER

UPDATED..... 80 12

NAME AND LOCATION

DEPOSIT NAME..... CASS RANCH
SYNONYM NAME..... POSSIBLY SAME AS GLADE VIEW

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

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

upper applegate Dist

COUNTY..... JACKSON
DRAINAGE AREA..... 17 APPLGATE RIVER
PHYSIOGRAPHIC PROV..... 13 KLAMATH MOUNTAINS
LAND CLASSIFICATION..... 49

QUAD SCALE QUAD NO OR NAME
1: 62500 TALENT

LATITUDE LONGITUDE
42-08-28N 122-51-10W

UTM NORTHING UTM EASTING UTM ZONE NO
4665232.6 512163.1 +10

TWP..... 039S
RANGE..... 001W
SECTION.. 29 32
MERIDIAN. W.M.

ALTITUDE.. 2880

COMMODITY INFORMATION

COMMODITIES PRESENT..... CR

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

ORE MATERIALS (MINERALS, ROCKS, ETC.):
MASSIVE, DISSEMINATED, BANDED

DESCRIPTION OF DEPOSIT

FORM/SHAPE OF DEPOSIT: STRINGERS, PODS

SIZE/DIRECTIONAL DATA

SIZE OF DEPOSIT..... SMALL

COMMENTS(DESCRIPTION OF DEPOSIT):

NOT SEEN IN PLACE

DESCRIPTION OF WORKINGS

SURFACE

PRODUCTION

YES

SMALL PRODUCTION

PRODUCTION COMMENTS.... ORE REMAINS IN DUMP OR ORE PILE

GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS..... PERM-TRI

HOST ROCK TYPES..... DUNITE METAPERIDOTITE METAPERIDOTITE

PERTINENT MINERALOGY..... CROSS FIBER ANTHOPHYLLITE

GEOLOGY (SUPPLEMENTARY INFORMATION)

REGIONAL GEOLOGY

TECTONIC SETTING..... OPHIOLITE

LOCAL GEOLOGY

NAMES/AGE OF FORMATIONS, UNITS, OR ROCK TYPES

1) NAME: APPLGATE GROUP

AGE: PERM-TRI

GENERAL COMMENTS

RECORD NUMBER (M013845) MERGED WITH THIS RECORD AND DELETED FROM THE OREGON FILE.

GENERAL REFERENCES

1) RAMP, LEN, 1961, CHROMITE IN SOUTHWESTERN OREGON: OREGON DEPT. GEOLOGY AND MINERAL IND. BULL. 52, 169 P.

RECORD IDENTIFICATION

RECORD NO..... M013845
RECORD TYPE..... XIM
COUNTRY/ORGANIZATION. USGS
FILE LINK ID..... CONSV
MAP CODE NO. OF REC..

REPORTER

NAME..... LEE, W
DATE..... 74 01

NAME AND LOCATION

DEPOSIT NAME..... CASS RANCH DEPOSIT

MINING DISTRICT/AREA/SUBDIST. RED MOUNTAIN

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

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

COUNTY..... JACKSON

QUAD SCALE QUAD NO OR NAME
1: TALENT

LATITUDE LONGITUDE
42-08-35N 122-50-58W

UTM NORTHING UTM EASTING UTM ZONE NO
4665450. 512450. +10

TWP..... 39S
RANGE..... 01W
SECTION.. 29 32
MERIDIAN. W.M.

POSITION FROM NEAREST PROMINENT LOCALITY: WEST CENTER OF SECTIONS.

COMMODITY INFORMATION

COMMODITIES PRESENT..... CR

ORE MATERIALS (MINERALS, ROCKS, ETC.):
CHROMITE

EXPLORATION AND DEVELOPMENT