

State Department of Geology and Mineral Industries

1069 State Office Building
Portland 1, Oregon

TENNESSEE PASS CHROMITE

Josephine County
Waldo District

Owners: Murphy Young, Thomas E. Young, and Glenn C. Young, Kerby, Oregon.

Location: SE $\frac{1}{4}$ of NE $\frac{1}{4}$ of Sec. 12, T. 38 S., R. 9 W., at 2165 (A) feet elevation on a bare and steep serpentine ridge, about $\frac{1}{2}$ mile southwest of Tennessee Pass, on the north side of the gulch. It is reached via the Tennessee Pass road and is 4 miles from Kerby and 34 miles from Grants Pass.

History: The deposit was reportedly discovered in 1918, and produced some 300 tons of high-grade chromite during World War I. It was relocated by the present owners March 14, 1952 and recorded May 12, 1952 (according to posted notice at Mine). Youngs shipped 6 long tons in April 1958 which assayed 50.11 percent Cr₂O₃, 13.15 percent Fe, and 6.46 percent SiO₂.

Development: The workings consist of a short tunnel (now caved) trending N. 10° E; a caved glory hole about 20 feet in diameter and 15 feet deep; and shallow cuts extending north from the glory hole. A short road and excavated area (75 x 25 feet) below the tunnel are the latest work.

Geology: The country rock is a greenish gray to black sheared serpentine. Many curving shears, some with narrow gouge zones, trend in a northerly direction. No chromite was seen in place. Chunks of chromite on the dump are medium- to coarse-grained and massive. It apparently occurred as lens-shaped pods in the contorted serpentine. The north trend of the cut and trend of the tunnel probably indicate the trend of the zone containing the chromite. The direction of dip was steep and to the west. The original lens of ore reportedly stuck out of the ground.

Tennessee Pass Chromite

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It was mined to a short distance below the tunnel level on an incline to the west.

Visited: 4/30/58.

Report by: L. R. - 5/1/58.

Informant: Glenn C. Young.

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CRIB MINERAL RESOURCES FILE 12

RECORD IDENTIFICATION

RECORD NO..... M060629
 RECORD TYPE..... X1M
 COUNTRY/ORGANIZATION. USGS
 DEPOSIT NO..... DDGMI 100-363
 MAP CODE NO. OF REC..

REPORTER

NAME..... JOHNSON, MAUREEN G.
 DATE..... 76 05
 UPDATED..... 81 04
 BY..... FERNS, MARK L. (BROOKS, HOWARD C.)

NAME AND LOCATION

DEPOSIT NAME..... TENNESSEE PASS
 SYNONYM NAME..... (#130

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

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

COUNTY..... JOSEPHINE
 DRAINAGE AREA..... 17100311 PACIFIC NORTHWEST
 PHYSIOGRAPHIC PROV..... 13 KLAMATH MOUNTAINS
 LAND CLASSIFICATION..... 49

QUAD SCALE QUAD NO OR NAME
 1: 62500 CAVE JUNCTION

LATITUDE LONGITUDE
 42-11-35N 123-42-18W

UTM NORTHING UTM EASTING UTM ZONE NO
 4671239.1 441792.7 +10

TWP..... 39S
 RANGE..... 08W
 SECTION.. 07
 MERIDIAN. W.M.

ALTITUDE.. 2165 FT

POSITION FROM NEAREST PROMINENT LOCALITY: 3 MILES WEST KERBY

MAJOR PRODUCTS.. CR

OCCURRENCE(S) OR POTENTIAL PRODUCT(S):

POTENTIAL..... PT
OCCURRENCE..... RH

COMMODITY SPECIALIST INFORMATION:

PGM OCCUR

ORE MATERIALS (MINERALS, ROCKS, ETC.):

CHROMITE

ANALYTICAL DATA (GENERAL)

PT 0.45 PPM, RH 0.063 PPM

EXPLORATION AND DEVELOPMENT

STATUS OF EXPLOR. OR DEV. 4

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:

MASSIVE CHROMITE

FORM/SHAPE OF DEPOSIT: LENS

SIZE/DIRECTIONAL DATA

SIZE OF DEPOSIT..... SMALL

STRIKE OF DREBODY..... NORTH

DIP OF DREBODY..... STEEP W

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		.006	TONS	1958	50.11% CR2O3, 18.15% FE, 6.46% SiO2

CUMULATIVE PRODUCTION (ORE, COMMOD., CONC., OVERBUR.)

ITEM	ACC	AMOUNT	THOUS. UNITS	YEAR	GRADE, REMARKS
15 ORE EST		.000	TONS		HWI HIGH GRADE
21 TOTAL		.006	TONS		50.11% CR2O3 (WEIGHTED AVERAGE GRADE)

OCCURRENCE(S) OR POTENTIAL PRODUCT(S):
POTENTIAL.....
OCCURRENCE..... RH

COMMODITY SPECIALIST INFORMATION:
PGM OCCUR

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

COMMODITY COMMENTS:
CHROMITE REMARKABLY FREE FROM GANGUE

ANALYTICAL DATA (GENERAL)
3 ASSAYS: 53.60% CR2O3, 12.99% FE; 55.54% CR2O3, 11.08% FE; 54.70% CR2O3, 11.08% FE ; RH 0.018 PPM

EXPLORATION AND DEVELOPMENT
STATUS OF EXPLOR. OR DEV. 2

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:
MASSIVE CHROMITE
FORM/SHAPE OF DEPOSIT: LENS

SIZE/DIRECTIONAL DATA
SIZE OF DEPOSIT..... SMALL
MAX WIDTH..... 14 INCHES
STRIKE OF OREBODY.... N45W
DIP OF OREBODY..... 35-40SW

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		.021	TONS	1958	52.58% CR2O3, 11.41% FE, 3.64% SiO2
21 TOTAL		.021	TONS		52.58 % CR2O3 (WEIGHTED AVERAGE GRADE)

GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS

MUR

1) NAME: JOSEPHINE PERIDOTITE
AGE: JUR

GENERAL COMMENTS

RECORD NUMBER (M013291) HAS BEEN 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.
- 2) THAYER, T. P., 1974, UNPUBL. DATA
- 3) PAGE, N.J., JOHNSON, M.G., HAFFTY, JOSEPH, AND RAMP, LEN, 1975, OCCURRENCE OF PLATINUM GROUP METALS IN ULTRAMAFIC ROCKS OF THE MEDFORD-COOS BAY 2 DEGREE QUADRANGLE, SOUTHWESTERN OREGON: U.S. GEOL. SURVEY MISC. FIELD STUDIES MAP MF-694
- 4) RAMP, L. AND PETERSON, N.V., 1979, GEOLOGY AND MINERAL RESOURCES OF JOSEPHINE COUNTY, OREGON; ODGMI BULL. 100, 45P

NAME AND LOCATION

DEPOSIT NAME..... TENNESSEE CHROMITE

COUNTRY CODE..... JS

COUNTRY NAME: UNITED STATES

STATE CODE..... OR

STATE NAME: OREGON

COUNTY..... JOSEPHINE

DRAINAGE AREA..... 17100311 PACIFIC NORTHWEST

PHYSIOGRAPHIC PROV..... 13 KLAMATH MOUNTAINS

LAND CLASSIFICATION..... 41

QUAD SCALE QUAD NO OR NAME
1: 62500 CAVE JUNCTION

LATITUDE LONGITUDE
42-11-45N 123-43-12W

UTM NORTHING UTM EASTING UTM ZONE NO
4671550. 440560. +10

TWP..... 39S
RANGE..... 09W
SECTION.. 11
MERIDIAN. W.M.

ALTITUDE.. 1850 FT

POSITION FROM NEAREST PROMINENT LOCALITY: 4 MILES WEST KERBY