

PRELIMINARY REPORT ON CHROMITE OF THE VULCAN PEAK AREA

Nancy Hank Claim

Owner: Howard Gardner, Harbor, Oregon

Location: Near center sec. 10, T. 39 S., R. 11 W.; at 4200 feet elevation on the west side of a hill about 1 mile north of Vulcan Peak.

A Forest Service road which goes by way of the Chetco River, Wilson Prairie, Long Ridge, and the old Red Mountain Trail, ended on the ridge about $3/4$ mile northwest of Vulcan Peak; a distance of 35 miles from Brookings.

Work on the Nancy Hank claim consisted of a small discovery pit on the steep hillside which exposed a narrow stringer of coarse-grained disseminated chromite in dunite.

The main joint pattern of the mineralized seam and surrounding peridotite trends north and dips 65° E. A small fault displaces the chromite on the north side of the cut. It runs nearly due east and dips 35° N.

The width of the chromite varies from 6 to 8 inches and lies in a band of dunite about 30 inches wide which roughly parallels the main joint pattern. A sample of selected chromite from this stringer ran 37.00 percent Cr_2O_3 and 11.53 percent Fe (P-13400).

Fourth of July Claim

Owner: Fred Gardner, Harbor, Oregon

Location: NW $\frac{1}{4}$ sec. 10, T. 39 S., R. 11 W., very close to the section line between sec. 10 and 3 (unsurveyed area).

Chromite was discovered here on the Fourth of July, 1952 by Fred Gardner. He located three claims.

Several stringers of highgrade chromite were exposed in place on the east side of the hill nearly $1\frac{1}{2}$ miles north of Vulcan Peak by a series of shallow cuts (see map of claim - two sheets).

The country rock is largely sheared serpentine. Light-colored dikes in the serpentine are also sheared. They are apparently a variety of rodingite. Two samples of this rock show a slight variation. The fine-grained pale pink

*contains no large pieces of chromite
found in the mine*

sample from the exposure on the east edge of the mapped area contains grossularite, garnet, and wollastonite in approximately 3 to 2 proportion. Another sample taken from an outcrop nearest the entrance of the largest tunnel is a dull white color and has intermixed serpentine, altered grossularite (prehnite ?) and diopside. The rock is largely altered.

Chemical analysis of these two rocks shows that they are similar to the fine-grained rodingites described by Bell and others (1911).⁽¹⁾

The rodingite lies roughly parallel to the chromite stringers, e.g., strikes N. 30° to 45° W. and dips 30° to 55° to the SW. In places the rodingite is somewhat mixed with serpentine in a manner which suggests that it is older. This may be seen in cross section B-B' where the serpentine appears to intrude a joint in the so-called dike nearest the face of the cut.

The width of the chromite stringers varies from a few inches to 4 feet. Two samples taken from the two widest seams of chromite thus far exposed ran 46.12 percent Cr₂O₃, 13.19 percent Fe; and 52.20 percent Cr₂O₃, 12.42 percent Fe (P-13401, 13402). The various chromite exposures, ran 50.2 percent Cr₂O₃ with a 2.99 chrome-iron ratio.

A few weeks after this claim was visited, work was started to extend the road from the ridge below Vulcan Peak to the claim, a distance of about 2 miles.

Rosie Claim

Owners: Louis Stoller and Nick and Fred Baumgartner.

Location: The claim is located at an estimated elevation of 2800 feet in a small ravine on the east side of Box Canyon Creek in sec. 2 (?), T. 39 S., R. 11 W.

Part of a boulder of chromite was exposed. The amount exposed was about 6 feet long, 2 feet wide, and 1 foot thick. Serpentine apparently was in place below the boulder and loose soil or slide material covered the remainder of the boulder and the serpentine in the immediate vicinity.

Amphibole gneiss was exposed on a prominent nose or projection 100 feet east of the chromite outcrop.

A sample of chromite taken from the boulder assayed 41.76 percent Cr₂O₃ and 12.64 percent Fe (P-13403).

Reference: Geology of the Dun Mountain subdivision, Nelson, New Zealand Geological Survey Bull. 12, 1911, by J. M. Bell and others.

Visited: Sept. 1952

Informants: Fred Gardner, Louis Stoller, Nick Baumgartner.

Report by: LR and DJW.

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

2033 First Street
Baker, Oregon

1069 State Office Building
Portland 1, Oregon

239 S.E. "H" Street
Grants Pass, Oregon

REQUEST FOR SAMPLE INFORMATION

MG-396
Cr₂O₃.Fe

copy

The State law governing analysis of samples by the State assay laboratory is given on the back of this blank. Please supply the information requested herein as fully as possible and submit this blank filled out along with the sample.

Your name in full Ramp (DOGAMI)

Post office address P. O. Box 417 Grants Pass, Oregon

Are you a citizen of Oregon Yes Date on which sample is sent 9-15-52

Name (or names) of owners of the property Louis Stoller, Nick Baumgartner, & Fred Baumgartner

Are you hiring labor? _____

Name of claim sample obtained from Rosie Claim

Are you milling or shipping ore? _____

Location of property or source of sample (If legal description is not known, give location with reference to known geographical point.)

County Curry Mining district Chetco

Township 39 S Range 11 W Section 2 Quarter section SE cor

How far from passable road and name of road 3 miles from end of road to Vulcan Pk

Channel (length) Grab Assay for Description

Sample no. 1 _____ x Cr₂O₃.Fe

Sample no. 2 _____

(Samples for assay should be at least 1 pound in weight.)

(Signed) L. R.

DO NOT WRITE BELOW THIS LINE - FOR OFFICE USE ONLY - USE OTHER SIDE IF DESIRED

Description Chromite with interstitial talc.

Sample number	GOLD		SILVER		CHROME	IRON		
	oz./T.	Value	oz./T.	Value	Cr ₂ O ₃	Fe		
P-13403 MG-396	- - -	- -	- - -	- -	41.76%	12.64%	- - -	- - -

Report issued _____ Card filed _____ Report mailed 9-22-52 Called for _____

RECORD IDENTIFICATION

RECORD NO..... M061614
RECORD TYPE..... X1M
COUNTRY/ORGANIZATION. USGS
DEPOSIT NO..... DDGMI 93-50
MAP CODE NO. OF REC..

REPORTER

NAME..... JOHNSON, MAUREEN G.
DATE..... 76 05
UPDATED..... 81 02
BY..... FERNS, MARK L. (BROOKS, HOWARD C.)

NAME AND LOCATION

DEPOSIT NAME..... GARDNER MINE
SYNONYM NAME..... 3 CLAIMS: 4TH OF JULY, SWEDE, SUSIE

MINING DISTRICT/AREA/SUBDIST. SOURDOUGH-VULCAN PEAK

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

Chetco Dist.

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

COUNTY..... CURRY
DRAINAGE AREA..... 17100312 PACIFIC NORTHWEST
PHYSIOGRAPHIC PRDV..... 13 KLAMATH MOUNTAINS
LAND CLASSIFICATION..... 43

QUAD SCALE QUAD NO OR NAME
1: 62500 CHETCO PEAK

LATITUDE LONGITUDE
42-11-44N 123-59-03W

UTM NORTHING UTM EASTING UTM ZONE NO
4671750. 418750. +10

TWP..... 39S
RANGE..... 11W
SECTION.. 10 03
MERIDIAN. W.M.

ALTITUDE.. 3920 FT

POSITION FROM NEAREST PROMINENT LOCALITY: 4 MILES NW CHETCO PEAK

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

COMMODITY SPECIALIST INFORMATION:
PGM OCCUR

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

ANALYTICAL DATA (GENERAL)
COMPOSITE SAMPLE OF HIGH GRADE ASSAYED 50.2% CR2O3, 2.9 CR:FE, OTHERS FROM SWEDE CLAIM ASSAYED 40.26% CR2O3,
9.91% FE PT 0.016 PPM, PD 0.016 PPM, RH 0.022 PPM

EXPLORATION AND DEVELOPMENT
STATUS OF EXPLOR. OR DEV. 4

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:
MASSIVE CHROMITE, DISSEMINATED
FORM/SHAPE OF DEPOSIT: STRINGERS, LENS

SIZE/DIRECTIONAL DATA
SIZE OF DEPOSIT..... SMALL
MAX WIDTH..... 50 FT
MAX THICKNESS..... 4 FT
STRIKE OF DREBODY.... N45-65W
DIP OF DREBODY..... 30-45S4
COMMENTS (DESCRIPTION OF DEPOSIT):
2-3 SEPARATE LAYERS IN A ZONE 30-50 FT WIDE

PRODUCTION
YES
SMALL PRODUCTION

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

ITEM	ACC	AMOUNT	THOUS. UNITS	YEAR	GRADE, REMARKS
15 ORE EST	.200		TONS	1952-1958	45-50% CR2O3
21 TOTAL	.200		TONS	47.50	% CR2O3 (WEIGHTED AVERAGE GRADE)

GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS..... JUR
HOST ROCK TYPES..... SERPENTINE
IGNEOUS ROCK TYPES.....

PERTINENT MINERALOGY..... TALC, "CHROME BLOOM", CALCITE

LOCAL GEOLOGY

NAMES/AGE OF FORMATIONS, UNITS, OR ROCK TYPES

- 1) NAME: JOSEPHINE PERIDOTITE
AGE: JUR

SIGNIFICANT LOCAL STRUCTURES:

HIGHLY SHEARED, THRUSTING, NORMAL FAULTING

GENERAL COMMENTS

RECORD NUMBER (M013203) 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) 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
- 3) RAMP, L. AND OTHERS, 1977, GEOLOGY, MINERAL RESOURCES AND ROCK MATERIAL OF CURRY COUNTY; OREGON; ODGMI BULL. 9 P.30

State Department of Geology and Mineral Industries

702 Woodlark Building
Portland 5, Oregon

GARDNER CHROME MINE

Curry County
Chetco Dist.

Progress Report

1. First Shipment

Fred Gardner reported that he received payment for 1st two truck loads of 17 tons of chromite in Feb. 1953.

Settlement slip showed:

Cr ₂ O ₃	-----	49.+
Cr/Fe	-----	3.01-1
Payment of	--	\$2000+

2. Further Shipments (reported by Fred Gardner)

- (1) 35 tons paid for on Nov. 4.
- (2) 101 tons produced 1953 field season including above 35 tons and two shipments in stockpile not paid for yet.
- (3) Approximate total 1952-1953 (Nov. 4)
-- 120 tons.

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
 2033 First Street Baker, Oregon 1069 State Office Building Portland 1, Oregon 239 S.E. "H" Street Grants Pass, Oregon

REQUEST FOR SAMPLE INFORMATION

The State law governing analysis of samples by the State assay laboratory is given on the back of this blank. Please supply the information requested herein as fully as possible and submit this blank filled out along with the sample.

Your name in full William Stephen Ettinger

Post office address Box 934 Brookings, Oregon

Are you a citizen of Oregon? Yes Date on which sample is sent 3-13-57

Name (or names) of owners of the property _____

Are you hiring labor? No Are you milling or shipping ore? No

Name of claim sample obtained from Nancy Hank

Location of property or source of sample (If legal description is not known, give location with reference to known geographical point.)

County Curry Mining District Chetco

Township 39 S Range 11 W Section 10 Quarter section W $\frac{1}{2}$

How far from passable road? $\frac{1}{2}$ mile Name of road Gardner Mine road

	Channel (length)	Grab	Assay for	Description
Sample no. 1	_____	_____	<u>Cr₂O₃, Fe</u>	<u>$\frac{1}{4}$ to 2$\frac{1}{2}$ lb. chunks</u>
Sample no. 2	_____	_____	<u>Cr₂O₃, Fe</u>	_____

(Samples for assay should be at least 1 pound in weight)

(Signed) Steve Ettinger

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Sample Description #1 - Coarse-grained massive chromite with minor intergranular serpentine.

#2 - Same as No. 1 (estimated silica content = 3%)

Sample number	GOLD		SILVER		CHROME	IRON		
	oz./T.	Value	oz./T.	Value	Cr ₂ O ₃	Fe		
P-20974 RG-96	---	--	---	--	38.10%	10.40%	---	---
P-20975 RG-97	---	--	---	--	37.00%	10.80%	---	---

Report issued _____ Card filed _____ Report mailed 4-2-57 Called for _____

RG-96497
Cr₂O₃, Fe, SiO₂

2033 First Street
Baker, Oregon

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Portland 1, Oregon

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Grants Pass, Oregon

REQUEST FOR SAMPLE INFORMATION

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Your name in full WILLIAM STEPHEN ETINGER

Post office address BROOKINGS, OREGON, BOX 934

Are you a citizen of Oregon? YES Date on which sample is sent 3/11/57

Name (or names) of owners of the property NONE

Are you hiring labor? NO Are you milling or shipping ore? NO

Name of claim sample obtained from NANCY HANK

Location of property or source of sample (If legal description is not known, give location with reference to known geographical point.)

County CURRY Mining district CHETCO

Township 39S Range 11 W Section ~~10~~ Quarter section ~~1~~ ^{W^{1/2}}

How far from passable road and name of road 1/2 MILE Gardner Mine Road

Channel (length) Grab Assay for Description

Sample no. 1 CR FE 1/4 to 2 1/2 lb chunks

Sample no. 2 " "

(Samples for assay should be at least 1 pound in weight)

(Signed) Steve Etinger

DO NOT WRITE BELOW THIS LINE - FOR OFFICE USE ONLY - USE OTHER SIDE IF DESIRED

Description #1 Coarse-grained massive chromite with minor intergranular serpentine
#2 same as no 1 (estimated silica content = 30%)

Sample number	GOLD		SILVER				
	oz./T.	Value	oz./T.	Value			

Report issued _____ Card filed _____ Report mailed _____ Called for _____