

# State Department of Geology and Mineral Industries

702 Woodlark Building  
Portland, Oregon

## MEMORANDUM REPORT

SALT ROCK MINE (Chromite)

Grants Pass Mining Dist.  
Josephine County

OWNER Pat Arnot  
Grants Pass, Oregon

AREA Three unpatented lode claims.

LOCATION Two claims are located in the NE  $\frac{1}{4}$  of the NE  $\frac{1}{4}$  section 6, T. 36S, R. 7W and a third claim is in the SE  $\frac{1}{4}$  of SE  $\frac{1}{4}$  of section 31, T. 35S, R. 7W. The claims are on a ridge separating Shan and Pickett Creek.

The property is reached via the Redwood Highway 199 to Hayes Hill service station, thence up Onion Mtn. road to turnoff to Hamlin Mine (Onion Falls Prospect). A "jeep trail" extends from the Hamlin Mine Camp some three miles to the Salt Rock Mine. The distance from the Salt Rock Mine to Grants Pass is 30-35 miles. The property is located at an estimated 2600' elevation and is inaccessible during the winter months.

HISTORY The initial discovery of chromite was made by John E. Hamlin Grants Pass. Arnot purchased the mine early in 1951. Only production has been during the past summer with a reported 25 tons mined.

GENERAL Chromite has been exposed by small cuts at four points along a prominent northeast-trending shear zone in serpentine. Three of these occurrences appear to be along the same individual fault line. Chromite, occurring as very small lenses or pods, usually a few inches to one foot in width, was observed in three of the cuts. A total of about 25 tons is reported to have been produced thus far with grade being extremely high. Sample LG-307 submitted to the department by the owner assayed 56.04% chromic oxide and 11.70% in iron. Most of the ore produced has come from a cut about 50 feet beyond the end of the road in section 6. The chromite here occurs in disconnected lenses along a fault. Dip is to the southeast at a low angle. All of the lenses are small usually being a few inches in width and one or two feet in length. In some places in the cut a small dike of rhodochrosite, a few inches in width, was noted. It appears to underlay the chromite and has the same attitude. Elsewhere, small, light-colored, very coarse-textured dikes were noted in close association with the chromite.

Report by: H. D. Wolfe  
Date of report: November 3, 1951  
Informant: Pat Arnot

# State Department of Geology and Mineral Industries

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Portland, Oregon

Report by: Ray C. Treasher  
Date: June 8, 1943.

## SALT ROCK CHROME

Grants Pass area  
Josephine County

Small pods of chromite that have been broken by later movement are found in a northeast trending zone. The country rock is serpentine that has been extensively slicked, producing "serpentite". A picked, high-grade sample assayed 52.4 percent  $\text{Cr}_2\text{O}_3$  and 11.2 percent Fe. Only five tons of ore have been mined out and less than a ton of ore is "in sight".

Owners: J. E. Hamlin, Rt. 3, Box 698, Grants Pass, Oreg.; Kenneth Mackay; David C. Meyer; R. C. Warren, 2336 S. W. Osage, Portland, Oregon.

Location: NE $\frac{1}{4}$  sec. 6, T. 36 S., R. 7 W., on the divide between Pickett and Shann Creeks, at an elevation of 3800 feet. Reached via Forest Service road to Onion Mtn.; at the southeast base of the Mountain a road goes down (east) to Hamlin's cabin, one mile. Then 2 $\frac{1}{2}$  miles by trail, easterly, to the chrome.

Area: One claim, Salt Rock, located in 1941.

History: New discovery. This is the first reported chrome from this particular belt of serpentine.

Development: Two small pits that expose five tons of ore. Another pit farther east has some chrome showing.

Geology: The country rock is serpentized peridotite (saxonite?) and the slick variety of serpentine locally called "serpentite". (serpentine that has been altered to slick, light green chloritoid minerals.) The peridotite groundmass has been altered to black serpentine that contains phenocrysts of fairly fresh enstatite (?).

# State Department of Geology and Mineral Industries

Salt Rock Chrome (2)

702 Woodlark Building  
Portland, Oregon

The rock shows the result of intense shearing. The rock weathers to the usual dun colored outcrops, locally called "buckskin rock",

Chromite is found about 200 feet below the ridge between Pickett and Shann Creeks, on the Pickett Creek side. Hillslopes average 35°. Serpentine outcrops at the surface and the hillside is barren.

The chromite is moderately coarsely crystalline. It occurs in small discrete bunches that average two cubic feet in size. The chromite may be frozen to the enclosing serpentine and small bands of chromite are found beyond the general ore zone. A fracture zone trends N. 45-65 E., and dips 50° S.E. Chromite pods seem to be associated with this fracture. Chromite is found "in place" and as float over 600 linear feet.

Assays:	<del>xxxxxxx</del>	Cr <sub>2</sub> O <sub>3</sub>	<del>xxxx</del>	Fe
	C.G. 723	46.8		11.7
	C.G. 724	49.1		11.0
	*D.G. 144	52.4		11.2

\*picked especially to show maximum possibilities.

*optimum*

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Report by: Ray C. Treasher  
Date: June 8, 1943.

## SALT ROCK CHROME

Grants Pass area  
Josephine County

This visit was made at the request of Mr. R. C. Warren, who with Mr. Meyer, was asked to aid the development work on the claim. I found that this deposit is the first discovered, or worked, in this particular serpentine belt. Therefore there is nothing to gauge the probabilities of ore occurrence. Only 5 tons of ore are mined, plus a 2 cu. ft. chunk in place. The bands of chromite in the serpentine suggest the probability of more lenses being found. At least 2 miles of road will be required to reach the deposit. Best route is from the end of the Big Four mining ditch road on Pickett Creek, to the chromite. The road would require heavy rock construction and would be expensive.

I believe that 75-100 tons of ore should be mined out at the property before a road is considered. The property is considered as a poor investment but it could justify a grubstake for further prospecting. Had I known conditions better I would not have made the inspection as it was not justified. I do, however, feel that Hamlin is an honest, but slightly over-enthusiastic, prospector.

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## STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

## ASSAY REPORT

Grants Pass, Oregon  
Baker, Oregon

June 28, 1913

Sample submitted by Ray C. Treasher

Sample description: Chrome-iron

~~Chip sample of the best ore. No accurate sample of "mine run" was available on account of insufficient work. Sample represents the best.~~

The assay results recorded below are made without charge as provided by Chapter 176, Section 10, Oregon Laws 1937, the sender having complied with the provisions thereof.

NOTICE: The assay results recorded below are from a sample furnished by the above named person. This Department had no part in the taking of the sample and assumes no responsibility, other than the accuracy of the assay of the material as furnished it by the sender.

Sample Number	GOLD		SILVER		Cr <sub>2</sub> O <sub>3</sub>		Fe		Total Value
	Ounces per ton	Value	Ounces per ton	Value	Percent	Value	Percent	Value	
DG 144					52.4%		11.2		

## Market Quotations:

Gold	\$	per oz.
Silver	\$	per oz.
	\$	per lb.
	\$	per lb.

STATE ASSAY LABORATORY

STATE DEPT OF GEOLOGY &amp; MINERAL INDUSTRIES

STATE ASSAY LABORATORY  
714 EAST H ST., P. O. BOX 417

Assayer  
GRANTS PASS, OREGON

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

ASSAY REPORT

Grants Pass, Oregon  
Baker, Oregon

June 28, 19 43

Sample submitted by Ray C. Treasher

Sample description: Identify. This material was reported as beryllium ore! Please identify the mineral

The assay results recorded below are made without charge as provided by Chapter 176, Section 10, Oregon Laws 1937, the sender having complied with the provisions thereof.

NOTICE: The assay results recorded below are from a sample furnished by the above named person. This Department had no part in the taking of the sample and assumes no responsibility, other than the accuracy of the assay of the material as furnished it by the sender.

Sample Number	GOLD		SILVER		Percent	Value	Percent	Value	Total Value
	Ounces per ton	Value	Ounces per ton	Value					
DG 143		Diopside							

Market Quotations:

Gold           \$           per oz.  
Silver         \$           per oz.  
                  \$           per lb.  
                  \$           per lb.

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*Arc showed mainly Mg and Ca, traces of Fe, Cr, Ti.  
Dominatedly wollastonite with some grossularite-pyrope.*

RIB MINERAL RESOURCES FILE 12

## RECORD IDENTIFICATION

RECORD NO..... M060792  
 RECORD TYPE..... X1M  
 COUNTRY/ORGANIZATION. USGS  
 DEPOSIT NO..... DDGM1 100-193  
 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..... SALT ROCK

COUNTRY CODE..... US

COUNTRY NAME: UNITED STATES

STATE CODE..... OR

STATE NAME: OREGON

COUNTY..... JOSEPHINE

DRAINAGE AREA..... 17100309 PACIFIC NORTHWEST

PHYSIOGRAPHIC PROV..... 13 KLAMATH MOUNTAINS

LAND CLASSIFICATION..... 41

QUAD SCALE            QUAD NO OR NAME  
 1: 62500            SELMA

LATITUDE            LONGITUDE  
 42-28-16N            123-33-47W

UTM NORTHING        UTM EASTING        UTM ZONE NO  
 4702009.7            453723.1            +10

TWP..... 36S  
 RANGE..... 07W  
 SECTION.. 05  
 MERIDIAN. W.M.

ALTITUDE.. 2880 FT

POSITION FROM NEAREST PROMINENT LOCALITY: 3 MILES NE ONION MOUNTAIN

COMMODITY INFORMATION

OCCURRENCE(S) OR POTENTIAL PRODUCT(S):

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

COMMODITY SPECIALIST INFORMATION:

PGM OCCUR

ORE MATERIALS (MINERALS, ROCKS, ETC.):

CHROMITE

ANALYTICAL DATA (GENERAL)

56.04% CR2O3, 11.70% FE ; PD 0.004 PPM, PT 0.85 PPM, RH 0.091 PPM

EXPLORATION AND DEVELOPMENT

STATUS OF EXPLOR. OR DEV. 2

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:

MASSIVE CHROMITE

FORM/SHAPE OF DEPOSIT: LENS, PODS

SIZE/DIRECTIONAL DATA

SIZE OF DEPOSIT..... SMALL

MAX LENGTH..... 2 FT.

MAX WIDTH..... 1 FT.

STRIKE OF OREBODY.... NE

DIP OF OREBODY..... SE

COMMENTS (DESCRIPTION OF DEPOSIT):

VERY SMALL SIZE; DISCONNECTED, ALONG FAULT

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		.005 TONS		1952	51% CR2O3
2 ORE EST		.006 TONS		1957	45% CR2O3, 2.7 CR:FE

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