

FWZ
7/10/43

State Department of Geology and Mineral Industries

702 Woodlark Building
Portland, Oregon

Report by: Ray C. Treasher
Date : 22 October 1943

SEXTON MOUNTAIN CHROMITE

Grants Pass Area
Josephine County

Some low-grade chromite ore and a small amount of high-grade, was taken from this deposit on the southeast flank of Sexton Mountain in 1942 and 1943. Some ore was removed from the property during World War I.

Owners: Lloyd Lewis and Arthur Williams, Grants Pass, Oregon.

Location: Section 24, Township 34 South, Range 6 West, on the southeast flank of Sexton Mountain. The deposit is reached via the Jump-Off Joe Creek road, to Shorthorn Gulch; then up Shorthorn Gulch, to the deposit.

History: The property was worked during World War I, by George Barton, of Eugene, Oregon. It is reported that two earloads of ore were shipped, and eighty tons were left on the dump at the close of the war. The grade of the ore is reported as 27% to 28%, with some high-grade, which permitted shipping ore of 30%. Lloyd Lewis and associate shipped some fifty long-tons in 1942, and sweetened it with high-grade ore, to bring the grade up to 35%. In 1943, J. B. Isgrig leased the property and produced 118 3/4 long-tons of ore which averaged less than 28% METALS
~~Material~~ Reserve Stock Cr₂O₃. The ore was sweetened so that the ~~Material~~ Reserve Stock File record gives no accurate record of the quantity or quality of the ore. Late in 1943, it is reported that a new lens has been found by the owners, and additional work is being done.

Development: The old 1918 workings consisted of a small glory hole, with one under-ground tunnel, and a sub-level. The old workings were cleaned out and additional mining done on the sub-level below the small glory hole. A small amount of ore was taken from the adit below.

Geology: The ore at this property should properly be classed as disseminated ore. However, in this case, the dissemination is such, that the rock can be called low-grade ore. The ore is cut off at the northeast by a Diorite Dike. Within the ore body itself, there is local faulting.

The chromite grains assay about 47% Cr_2O_3 , with a 2 to 1 Chrome to Iron ratio.

The small pod of low-grade ore which was mined in 1943, appears to be pinching to the northeast, under the old workings. The disseminated ore seems to be concentrated in small stringers and low grade pods, in such a way that additional ore might be found by following the ore trends. The miners claim that the ratio of low grade ore to waste is 1:2 and that even the ore contains much waste.

If the ore mined in 1918, was shipped in fifty-ton cars one may assume that 100 short-tons were shipped, and 80 short tons left on the dump. The 1942 mining represents 50 long-tons, and the 1943 mining, up to October 1st, represents 118 $\frac{3}{4}$ tons. These figures reduced to long tons indicate a total production to October 1st 1943, of 328 long-tons of ore, averaging 25% to 30% Cr_2O_3 , with a 2 to 1 Chrome to Iron ratio.

Further work is being done on the deposit.

Informant: R.C.T. (visited September 2, 1943).

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STATE DEPT OF GEOLOGY
& MINERAL INDS.

Josephine County

Name: C. D. Sexton Placer Mine (gold)
Owner: George M. Keibelbeck, Grants Pass, Oregon.
Location: On Jump-Off-Joe Creek, 15 miles N. E. of Grants Pass
in Sec. 24, T. 34 S., R. 5 W.
Area: 80 acres patented land.
History: Worked intermittently for past 10 years. Mr. W. G.
Knox sold the property to the present owner in the
summer of 1938. About one acre has been mined.

Water Rights: He has water right which calls for all the water
out of Bummer Gulch. Two ditches, being about $2\frac{1}{2}$
miles long, collects water from French and Crocket
Creeks. The water is delivered to the property under
about an 80 foot head. Length of mining season being
from November to May. He does not have sufficient
water or pressure to operate the property economically.

Geology: Slate bedrock being very rough. Gold fairly coarse.
lots of boulders + some clay.

Misc. Information: Elevation 3100 feet. Gulch and side hill
operation. Mountainous topography. Maximum 5 feet of
snow. No expiration work, but feels he has sufficient
ground to operate for ten years. Equipment is two No.
1 and one No. 2 giants; 1500 feet of 8 to 18" pipe.

Informant: J. E. Morrison. 5/3/38.

Confidential: Three of them took out about \$1800 last
year.

GRANTS PASS MINING DISTRICT

JOSEPHINE COUNTY

Sexton Placer Status of Placer Operations for 1947-48 Season

Mr. Lee Schroeder
Grants Pass, Oregon

Upper Jumpoff Joe Cr.
Sec. 24, T34S., R5W.

Hydraulic-2 giants. Reported to be
clearing and preparing for operation this season.

H. D. Wolfe
Nov. 20, 1947

RECORD IDENTIFICATION

RECORD NO..... M061340
RECORD TYPE..... X1M
COUNTRY/ORGANIZATION. USGS
DEPOSIT NO..... DDGMI 100-127
MAP CODE NO. OF REC..

REPORTER

UPDATED..... B1 04
BY..... FERNS, MARK L. (BROOKS, HOWARD C.)

NAME AND LOCATION

DEPOSIT NAME..... SEXTON MOUNTAIN

MINING DISTRICT/AREA/SUBDIST. GRANTS PASS

COUNTRY CODE..... US

COUNTRY NAME: UNITED STATES

STATE CODE..... OR

STATE NAME: OREGON

COUNTY..... JOSEPHINE

DRAINAGE AREA..... 17100#10 PACIFIC NORTHWEST

PHYSIOGRAPHIC PRDV..... 13 KLAMATH MOUNTAINS

LAND CLASSIFICATION..... 49

QUAD SCALE

1: 62500

QUAD NO OR NAME

GLENDALE

LATITUDE

42-36-12N

LONGITUDE

123-21-08W

UTM NORTHING

4716600.0

UTM EASTING

471100.0

UTM ZONE NO

+10

TWP..... 034S

RANGE..... 006W

SECTION.. 24

ALTITUDE.. 2640

COMMODITY INFORMATION

COMMODITIES PRESENT..... CR

COMMODITY COMMENTS:
POSSIBLY HIGH ALUMINA

ANALYTICAL DATA (GENERAL)

30.60% CR2O3, 9.53% FE, 11.80% SiO2, 21.84% MgO, 1.13% CaO; CALCULATED ALUMINA CONTENT IS 17.3% AL2O3

EXPLORATION AND DEVELOPMENT
STATUS OF EXPLOR. OR DEV. 8

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:

DISSEMINATED; MASSIVE CHROMITE
FORM/SHAPE OF DEPOSIT: LENS, POD

SIZE/DIRECTIONAL DATA

SIZE OF DEPOSIT..... SMALL
MAX WIDTH..... 4 FT
STRIKE OF DREBODY.... N 15 W
DIP OF DREBODY..... EAST

PRODUCTION

YES
SMALL PRODUCTION

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

ITEM	ACC	AMOUNT	THOUS. UNITS	YEAR	GRADE, REMARKS
1 DRE EST		0000.800	TONS	1918	33. % CR2O3
2 DRE EST		0000.056	TONS	1942	29.71 % CR2O3, 9.97 % FE, 13. % SiO2, 2.021:1 CR:FE
3 DRE EST		0000.247	TONS	1943	38. % CR2O3
21 TOTAL		1.103	TONS	33.93	% CR2O3 (WEIGHTED AVERAGE GRADE)

GEOLOGY AND MINERALOGY

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

GENERAL COMMENTS

RECORD NUMBER (M013374) HAS BEEN MERGED WITH THIS RECORD AND DELETED FROM THE OREGON FILE.

GENERAL REFERENCES

1) RAMP, LEN, 1951, CHROMITE IN SOUTHWESTERN OREGON: OREGON DEPT. GEOLOGY AND MINERAL IND. BULL. 52, 169 P.

2) THAYER, T. P., 1974, UNPUBL. DATA

3) RAMP, L. AND PETERSON, M.V., 1979, GEOLOGY AND MINERAL RESOURCES OF JOSEPHINE COUNTY, OREGON: OREGON BULL. 100