

State Department of Geology and Mineral Industries

Griffin Chromite

(see also Nickle Plate Chromite)

See also C.F.

Illinois River Woodlark Building
Portland, Oregon

Owner: Frank Griffin, Selma, Oregon. Leased to John Kennedy.

Location: NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 18, T. 38S, R. 3W, $\frac{1}{2}$ mile west of the mouth of Deer Creek, at an elevation of 1500 feet.

Area: Two parallel north-south lode claims, the Nickle Plate Nos. 1 and 2, and one placer claim bisected by the Illinois River

History: Ore was mined during the first World War. There is no record of production. Allen reported as follows: (OSDS. MI 42: 132-133)

Geology: The deposit lies on an east sloping hillside with a 20° gradient, at a point 350 feet in elevation above and about 1500 feet west of the Illinois River. Ore appears in place in two large cuts and as about 1000 feet North. The main cut lies 200 feet N. 55° E. of the southern one, and 50 feet in elevation below. Four prospect trenches cross the ground between the cuts but expose no ore.

"Banded chromite ore outcrops at the southwest end of the main cut, striking N. 50° E. and dipping 65° N. Its width at this point is difficult to determine, but is probably not over 4 feet and may be less. The southeast side of the cut consists of one large plane of movement striking N. 50° E. and dipping 40° N., which may have been the footwall of the ore body. The ore appears to have been glory-holed from a tunnel driven at about 20 foot depth. The cut is now badly caved. Twenty feet south of this cut several large boulders containing contorted bands of chromite are exposed.

"At the west end of the southern cut a narrow lens of banded ore striking N. 55° E. and dipping 65° N. outcrops for several feet with a width of at least 3 feet, and possibly more. 20 feet farther east, a small outcrop (which may not be in place) suggests a third parallel body, striking N. 30° E. and standing vertical.

"The country rock of the region is a serpentine, with much whitish tremolite and chrysotile stringers on the surface, especially near the deposits. In places farther from the deposits, the original porphyritic textures are apparent. The ore is predominantly banded, with narrow irregular layers of high grade chromite lying between nearly barren serpentine, and making up from 15 to 30 percent of the rock in the ore body. The high grade has a shiny metallic lustre, which suggests a high iron content. The bands are usually only a fraction of an inch thick, although they may widen to several inches. The banding is often much contorted and folded. There have been minor displacements of the bands. No evenly disseminated ore was seen on the property, the chromite occurring only in the bands and the interstitial rock containing probably less than 5 percent chromic oxide. Assay of the cobbled ore from a pile in the south cut gave 44.52% Cr₂O₃. A sample of the ore from another dump was pan concentrated and yielded 53.47% Cr₂O₃."

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Development: Two open cuts, the larger at the north and ² 30 feet below ^{702 Woodlark Building} ^{Portland, Oregon}

the southern cut. There are several trenches. In the summer of 1942, two trenches were opened in banded ore at the southern cut. One trench is 45 feet long and has a 25-foot shaft. The other trench is about 15 feet long. A small concentrator was built and ten tons of concentrate were delivered to the Metals Reserve stockpile at Grants Pass. About 3 mile of road were built on the south side of the Illinois River.

The north cut is badly caved and dirt and rubble covers the old workings. However, small areas of banded ore could be seen along the walls.

The south cut has been explored in 1942 by two cuts. The east cut is 45' long, four feet wide, and averages five feet deep. Banded ore that is reported to assay 20% chromite is exposed. A 25-foot shaft exposes ore nearly to the sump. The banded ore strikes N 30° E. and is vertical, although in the shaft, the lower part tends to dip to the N.W. North of the trench, banded ore was found 15 feet away. This cut "blocks out" banded ore 60'x4'x25' or 6000 cu. feet of 29% (?) ore.

The upper trench in the south cut exposes banded ore over a width of 5 feet, a depth of six feet, and a length of 15 feet. There is ^{an} indications that the ore zone may extend northward and may connect with the north cut. "Blocked out" ore is 450 cu. foot. This ore trends N. 60° E. and dips 65° NW.

Between the two trenches, bedrock is not well exposed but there is a suggestion of additional bands of ore.

The north cut has had no work done on it at the time but banded ore can be seen along the walls. The cut trends approximately N. 60° E.

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Topography of the area suggests landslide action. If the ore has slid, it probably did so as a block so that one may be reasonably sure that the area considered is still a unit.

Milling: A small concentrator has been built from a concrete mixer.

Ten tons of concentrate has been produced.

References: U.S. D. C. B. M. I. 42: 132-133 (quoted)

Informant: R. C. T. 10/22/42.

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Illinois River Area

Griffin Chromite

John Kennedy has taken a lease on this property and hopes to operate it as a concentrating proposition. To date, he has blocked out not to exceed 6500 cu. ft. of 20% (?) banded ore which would represent about 500 tons of rock. He figures a concentrating ratio of 2.5:1 or roughly therefore about 200 tons of 40% concentrate.

His concentrator is simply a small concrete mixer into which the soft rock is tumbled for about 10 minutes. The gangue is washed off and the concentrate stored. He loses the fines, -I would judge about 30% of his chromite. He knows this, and is stocking his tailings against the installation of a jig.

He wants to dispose of the property. I recommended further exploration, following the banded ore zones he has exposed in the south cut. About 100' above the cut is a ditch line that could be conditioned to carry water for \$200 (he says.) During the winter, it might be advantageous to hydraulic the bedrock clean so he can see what he has. The material could be washed thru a sluice and some chromite recovered.

Kennedy claims he can pay for his time and that of one man with his present concentrator. If so, he might continue to prospect his banded ore, paying expenses in the meantime until he has enuf ore showing to justify installing a concentrating plant. I believe he should have at least 10,000 tons of ore blocked out, first.

I'm afraid the picture is not as favorable now as it was earlier in the summer to him and I rather expect him to fold up this winter.

Ray C. Treasher
Field Geologist
October 23, 1942

CONFIDENTIAL

RECORD IDENTIFICATION

RECORD NO..... M060563.
RECORD TYPE..... X1M
COUNTRY/ORGANIZATION. USGS
DEPOSIT NO..... DDGM 100-310A
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..... GRIFFIN CHROMITE
SYNONYM NAME..... NICKEL PLATE

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.....

QUAD SCALE 1: 62500
QUAD NO OR NAME SELMA

LATITUDE 42-16-06N
LONGITUDE 123-41-19W

UTM NORTHING 4679582.3
UTM EASTING 443213.1
UTM ZONE NO +10

TWP..... 38S
RANGE..... 08W
SECTION.. 13
MERIDIAN. W.M.

ALTITUDE.. 1550 FT

POSITION FROM NEAREST PROMINENT LOCALITY: 4 MILES WEST SELMA

COMMODITY INFORMATION

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

COMMODITY SPECIALIST INFORMATION:
PGM OCCUR

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

ANALYTICAL DATA (GENERAL)
COBBED DRE ASSAYED 44.52% CR2O3, ANOTHER SAMPLE -53.47% CR2O3; MOSTLY 20-29% CR2O3; RH 0.082 PPM

EXPLORATION AND DEVELOPMENT
STATUS OF EXPLOR. OR DEV. 2

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:
MASSIVE CHROMITE
FORM/SHAPE OF DEPOSIT: NARROW IRREGULAR BANDS

SIZE/DIRECTIONAL DATA
SIZE OF DEPOSIT..... SMALL
MAX WIDTH..... 4 FT.
STRIKE OF DREBODY.... N50E
DIP OF DREBODY..... 40-65N

DESCRIPTION OF WORKINGS
SURFACE

PRODUCTION
YES
SMALL PRODUCTION

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

ITEM	ACC	AMOUNT	THOUS. UNITS	YEAR	GRADE, REMARKS
1 DRE EST		.009	TONS	1942	44% CR2O3 (CONC.)
21 TOTAL		.009	TONS	44.00	% CR2O3 (WEIGHTED AVERAGE GRADE)

PRODUCTION COMMENTS..... RECORD NOT COMPLETE -WORKED #W1 -1953; NOT MORE THAN 100 TONS COULD BE DEVELOPED; PROPERTY IS NOT ADEQUATELY OPENED

GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS..... JUR

ROCK SECTIONS
NAMES/AGE OF FORMATIONS, UNITS, OR ROCK TYPES

- 1) NAME: JOSEPHINE PERIDOTITE
AGE: JUR

SIGNIFICANT LOCAL STRUCTURES:
POSSIBLE LANDSLIDE BLOCK

GENERAL COMMENTS

RECORD NUMBER (N013495) 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, N.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

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(see also Nickel Plate Chromite)

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Informant: R. C. T. 10/22/42.

COPY

CG - 727
Cr₂O₃, Fe

2033 First Street
Baker, Oregon

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
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 Ray C. Treasher for Griffin Chrome

Post office address G. P.

Are you a citizen of Oregon? Yes Date on which sample is sent 10/20/42

Name (or names) of owners of the property Griffin

Are you hiring labor? Are you milling or shipping ore?

Name of claim sample obtained from Griffin Chrome (Nickel-Plate Chrome)

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

County Josephine Mining District Illinois River
Elev. 1550'
Township 38 S Range 8 W Section 18 Quarter section NW $\frac{1}{4}$

How far from passable road? On road Name of road

Channel (length) Grab Assay for Description

Sample no. 1 15" Cr₂O₃, Fe

Sample no. 2
(Samples for assay should be at least 1 pound in weight)

(Signed) Ray C. Treasher

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

Sample Description Sample across 15" of a 24" width of disseminated chrome.

Sample number	GOLD		SILVER		CHROME	IRON		
	oz./T.	Value	oz./T.	Value	Cr ₂ O ₃	Fe		
42 T 30 CG-727	- - -	- -	- - -	- -	26.4%	14.9%	- - -	- - -

Report issued Card filed Report mailed Called for

NG-250
Cr₂O₃, Fe

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Your name in full Len 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 7-10-53

Name (or names) of owners of the property Leased by Ed Knippel

Are you hiring labor?

Name of claim sample obtained from Griffin

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 Josephine Mining district Illinois River

Township 36 S Range 8 W Section 18 Quarter section SW

How far from passable road and name of road end road 2.8 mi. off road up Josephine Cr.

Channel (length) Grab Assay for Description

Sample no. 1 x Cr₂O₃, Fe Picked high-grade from floor of rudimentary shaft

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 Sheared chromite and serpentine

Sample number	GOLD		SILVER		CHROME	IRON		
	oz./T.	Value	oz./T.	Value	Cr ₂ O ₃	Fe		
F-14791	- - -	- -	- - -	- -	32.20%	9.00%	- - -	- - -
NG-250								

Report issued Card filed Report mailed 7-27-53 Called for