

State Department of ~~Geology~~ and Mineral Industries

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OCT 17 1957

1069 State Office Building
Portland 1, Oregon

STEVENS-MILLER CHROME MINE

STATE DEPT. OF GEOLOGY
& MINERAL IND.

Josephine County
Lower Applegate Dist.

Owners: Carl L. Stevens and Vard R. Miller, Grants Pass.

Area: One claim (not recorded).

Location: The mine is located near the center of sec. 7, T. 38 S., R. 5 W., at 4450 feet elevation on the south end of Pennington Butte. It is reached via State Highway 238, $1\frac{1}{2}$ miles south of Grants Pass, thence to the right at H. D. Wilson's mailbox, it is about $4\frac{1}{2}$ miles to the top of Pennington Butte and the Pennington Butte Chrome Mine (4,590 feet elevation), and one mile farther to the Stevens-Miller mine.

History: About 42 tons of chromite assaying about 46 percent Cr_2O_3 and 12 percent iron was reported shipped from the mine in 1954.

Development work: The workings consist of an open cut up to 12 feet deep and approximately 40 by 70 feet across; a 45° inclined shaft (south) to 25 feet depth with a 25-foot left-hand drift from the bottom of the incline; and a 50-foot vertical shaft which cuts through the bottom of the incline and has a 27 foot* crosscut to the south from the bottom of the shaft.

Geology: The deposit lies in a narrow and sinuous body of serpentine with numerous inclusions of hard gray metavolcanic rock. The serpentine trends about N. 60° E., nearly parallel to the ridge. The chromite is massive and occurs in lens-shaped bodies (the largest lens mined was reportedly 4 feet thick and 7 feet long) lying in a plane which strikes NE and dips about 55° SE. The chromite stringer reportedly split at the level of the left drift and was encountered at two places in the lower crosscut. At 15 feet, a 1-foot layer of chromite was cut and at the

*Dimensions of workings were obtained from informant. Workings were not entered due to water.

STEVENS-MILLER CHROME MINE

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face (about 12 feet farther) a 6-inch stringer was cut.

Most of the ore mined was taken from the open cut alongside the collar of the incline, in the incline, and a small amount in the short drift to the left from the bottom of the incline.

Visited: 10/2/57 (A.M.).

Report by: L.R. 10/3/57.

Informant: Carl Stevens.

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CRIB MINERAL RESOURCES FILE 12

RECORD IDENTIFICATION

RECORD NO..... M061642
 RECORD TYPE..... X1M
 COUNTRY/ORGANIZATION. USGS
 DEPOSIT NO..... DDGMI 100-313
 MAP CODE NO. OF REC..

REPORTER

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

NAME AND LOCATION

DEPOSIT NAME..... STEVENS -MILLER

MINING DISTRICT/AREA/SUBDIST. LOWER APPELEGATE

COUNTRY CODE..... JS
 COUNTRY NAME: UNITED STATES

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

COUNTY..... JOSEPHINE
 DRAINAGE AREA..... 17100309 PACIFIC NORTHWEST
 PHYSIOGRAPHIC PROV..... 13 KLAMATH MOUNTAINS
 LAND CLASSIFICATION..... 49

QUAD SCALE QUAD NO OR NAME
 1: 62500 GRANTS PASS

LATITUDE LONGITUDE
 42-16-51N 123-20-16W

UTM NORTHING UTM EASTING UTM ZONE NO
 4680800. 472140. +10

TWP..... 38S
 RANGE..... 05R
 SECTION.. 07
 MERIDIAN. W.M.

ALTITUDE.. 4450

COMMODITY INFORMATION

COMMODITIES PRESENT..... CR

CHROMITE

EXPLORATION AND DEVELOPMENT
STATUS OF EXPLDR. OR DEV. 4

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:

MASSIVE CHROMITE
FORM/SHAPE OF DEPOSIT: LENS, STRINGER

SIZE/DIRECTIONAL DATA

SIZE OF DEPOSIT..... SMALL
MAX LENGTH..... 7 FT
MAX WIDTH..... 4 FT
STRIKE OF DREBODY.... NE
DIP OF DREBODY..... 55SE

DESCRIPTION OF WORKINGS
SURFACE AND UNDERGROUND

PRODUCTION
YES
SMALL PRODUCTION

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

ITEM	ACC	AMOUNT	THOUS. UNITS	YEAR	GRADE, REMARKS
1 ORE EST		.040	TONS	1954	46% CR2O3, 12% FE
21 TOTAL		.040	TONS	46.00	% CR2O3 (WEIGHTED AVERAGE GRADE)

GEOLOGY AND MINERALOGY

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

LOCAL GEOLOGY

COMMENTS (GEOLOGY AND MINERALOGY):
SERPENTINE BODY CONTAINS NUMEROUS METAVOLCANIC "INCLUSIONS".

GENERAL COMMENTS

RECORD NUMBER (M013409) 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.