

Portland

State Department of Geology and Mineral Industries

702 Woodlark Building
Portland, Oregon

PRELIMINARY REPORT

SHADY COVE (chromite)

Illinois River Area
Josephine County

Owner: H. Z. Bielenberg, Calice.

Location: NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 11, T. 36 S., R. 9 W.

History: The Shady Cove, the Chrome Monument, and Rocky Point claims are being leased from Bielenberg by the Ashland Mining Company (Van Curler Bros.), 835 N. Main Street, Ashland, Oregon. They began production late in the spring of 1952.

Development: The Van Curlers were mining milling ore from a seam about 4 feet wide by open cut methods, using a bulldozer and a Tractaloader (scoopmobile-like machine). There are two smaller showings of chromite, one on either side of the main body. The lower one about 200 feet to the east had been mined out. The other about 250 feet up the hill and west of the main workings is a small 18 inch stringer of disseminated chromite with a S. 75° W. trend. No work was done on the latter.

A road has been built into the deposit which is 0.8 mile from the junction with the Chrome Ridge road.

Geology: The rock surrounding and including the chromite is a dark colored, fine grained dunite. The main chromite body is made up of an area of disseminated chromite in dunite 40 to 50 inches in width, flanked to the east by a fault gouge from 6 inches to 1 foot wide containing loose, granular chromite and talc. A sample of chromite taken across the width of the gouge ran 45.31% Cr₂O₃ with a 2.1 chrome-iron ratio. This shear

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Geology: (continued)

zone trends N. 50° E. with a 65° dip to the N. W. Saxonite borders the gouge on the east. Ore taken from this deposit is being roughly cobbled and concentrated at the Van Curlier's mill near Ashland. The disseminated chromite in dunite will probably run less than 35% Cr₂O₃.

Informant: Fred Van Curlier

Report by: L. R.

Visited by: L. R. & D. J. W. -- 8-11-52.

RECORD IDENTIFICATION

RECORD NO..... M061553
 RECORD TYPE..... X1M
 COUNTRY/ORGANIZATION. USGS
 DEPOSIT NO..... DDGMI 100-177
 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..... SHADY COVE
 SYNONYM NAME..... PART OF SORDY GROUP

MINING DISTRICT/AREA/SUBDIST. CHROME RIDGE

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

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

COUNTY..... JOSEPHINE
 DRAINAGE AREA..... 17100311 PACIFIC NORTHWEST
 PHYSIOGRAPHIC PRDV..... 13 KLAMATH MOUNTAINS
 LAND CLASSIFICATION..... 41

QUAD SCALE QUAD NO OR NAME
 1: 62500 SELMA

LATITUDE LONGITUDE
 42-27-27N 123-43-29W

UTM NORTHING UTM EASTING UTM ZONE NO
 4700600. 440400. +10

TWP..... 36S
 RANGE..... 09W
 SECTION.. 11
 MERIDIAN. W.M.

ALTITUDE.. 4040 FT

POSITION FROM NEAREST PROMINENT LOCALITY: 2 MILES WEST OF BRIGGS VALLEY

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

COMMODITY SPECIALIST INFORMATION:
PGM OCCUR

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

ANALYTICAL DATA (GENERAL)

4 ASSAYS: 1) MASSIVE DRE - 45.31 % CR2O3, 14.52 % FE, AND 45.73 % CR2O3. 2) DRE FROM ASHLAND MILL - 39.40 % CR2O3, 12.83 % FE, 11.64 % SiO2. 3) CONCENTRATES - 52.60 % CR2O3, 14.28 % FE. ALSO RH 0.019 PPM (FROM PAGE ETAL 1975)

EXPLORATION AND DEVELOPMENT
STATUS OF EXPLOR. OR DEV. 8

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:

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

SIZE/DIRECTIONAL DATA

SIZE OF DEPOSIT..... SMALL
MAX WIDTH..... 4.5 FT.
STRIKE OF OREBODY.... NORTHWEST

COMMENTS (DESCRIPTION OF DEPOSIT):

OFFSET BY FAULTS, FOLDED

DESCRIPTION OF WORKINGS
SURFACE AND UNDERGROUND

PRODUCTION

YES
SMALL PRODUCTION

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

ITEM	ACC	AMOUNT	THOUS. UNITS	YEAR	GRADE, REMARKS
1					FRIABLE DRE: 49% CR2O3, 12% FE, 5% SiO2
2					CONCENTRATES: 52.7%, 13.1% FE, 2.45% SiO2

15 DRE EST	.792 TONS	1951-1953 51% CR2O3
16 DRE EST	.642 TONS	1956-1958 50% CR2O3, 2.8 CR:FE
21 TOTAL	1.434 TONS	50.34 % CR2O3 (WEIGHTED AVERAGE GRADE)

PRODUCTION COMMENTS..... DRE WAS FRIABLE, SOME HAD TO BE CONCENTRATED SEE GRADE IN ANNUAL COLUMN

GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS..... JUR
 HOST ROCK TYPES..... PERIDOTITE
 PERTINENT MINERALOGY..... TALC

GENERAL COMMENTS

RECORD NUMBERS (M013481) AND (N015244) HAVE 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) RAMP, L. AND PETERSON, N.V., 1979, GEOLOGY AND MINERAL RESOURCES OF JOSEPHINE COUNTY, OREGON; ODGMI BULL. 100