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DEC 4 1957

STATE DEPT. OF GEOLOGY
& MINERAL INDUSTRIES

Department of Geology and Mineral Industries

1069 State Office Building
Portland 1, Oregon

Revised Report

CYNTHIA CHROME MINE
(This to replace report written 6/17/57)

Josephine County
Waldo District

Owners: Dave Schrock and J. C. Wells of Albany, Oregon and H. F. Shaw of Grants Pass. Leased by the Thunderbird Mining Corporation, Medford including Frank Grover, Nate Smith and E. C. Brittsan.

Location: NW $\frac{1}{4}$ of NE $\frac{1}{4}$ sec. 15, T. 41 S., R. 5 W., on the ridge northeast of Camp Gulch and southwest of Whisky Peak at 5,000 feet elevation. The mine is reached by the road up Cougar Creek which branches west from the Carberry Creek 7 miles south of Steamboat and 1 $\frac{1}{2}$ miles west of Cepper. It is about 11 miles to the mine from Carberry Creek.

History: The claim was owned by Frances Hittson, Medford, from about 1937 to 1942(?). M. E. Hughes reportedly purchased the claim from Hittson in 1942(?). Hughes later sold the claim to a group of seven persons including the present owners. Schrock and Wells each own 3/7 and Shaw 1/7. During the First World War some ore was reportedly taken out on the trail on pack animals by Chancy Florey, Medford. However, no record of the amount was obtained.

The present operators constructed 6 miles of road to the property in the summer of 1957. They shipped 135 tons of ore during August and September of 1957.

Development Work: The main cut is 200 feet long in a N. 70° E. direction, about 25 feet wide and up to 15 feet deep (9/12/57). A reservoir was constructed 150 yards northeast of the mine and has about 200 feet of head. The water is piped to an ore bin for washing loose dirt from the ore.

Some diamond drilling was reported done during October, 1957, but was discontinued due to bad weather before any new ore was developed.

Geology: The ore occurs as lenses in a tabular-shaped zone striking N. 70° E. The direction of dip could not be determined with certainty but one small lens had a 40° dip SE. The lenses mined were up to 3 feet thick but pinch down to narrow stringers. The deposit lies in a serpentine body about $\frac{1}{2}$ mile wide and $1\frac{1}{2}$ miles long which intrudes metasedimentary rocks of the Applegate group. A body of white marble is exposed on the ridge north of the chromite deposit.

The ore that was shipped in 1957 assayed from 46 to 48 percent Cr_2O_3 with a 2.3 to 2.5 Cr:Fe ratio.

Visited: 9/12/57.

Informants: Grover, Brittsan, and J. W. Pressler.

Report by: Len Ramp - 11/4/57.

See report 1/2/57

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State Department of Geology and Mineral Industries

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Portland 1, Oregon

CYNTHIA CHROME

Josephine County
Waldo District

Owner: Max E. Hughes, Murphy

Location: $NW\frac{1}{4}$ of $NE\frac{1}{4}$ of sec. 15, T. 41 S., R. 5 W., on the Camp Gulch side of the ridge at about 5100 feet elevation, about $\frac{1}{2}$ mile east of Bill Fruit Trail. It is reached by 6 miles of trail from the road end on Middle Fork of the Applegate in northern Siskiyou County, California.

History: The claim was owned by Frances Hittson, Medford, from about 1937 to 1951; by H. F. Shaw, Grants Pass, till recently relocated by Hughes. Hughes reportedly purchased the claim from Hittson in 1942 (?) and packed 35 tons out by pack animal. The ore sold reportedly assayed about 42 percent chromic oxide which was considerably lower grade than anticipated.

Development: A caved cut reportedly about 15 x 30 feet is the extent of workings.

Geology: The deposit lies near the west edge (base) of a narrow sill-like serpentine body which has intruded the Applegate formation alongside and cutting through a zone of metasediments. A knob of white marble is exposed on the ridge about 400 yards above the chromite occurrence. No ore was seen in place.

Pieces of ore taken from the dump appeared marginal in grade; having dull luster and intimately mixed with serpentine. The specific gravity of a piece of the ore tested out at 3.9 (balance and graduated cylinder).

Assays include:

CG-576, 8/15/42, 41.0	Cr ₂ O ₃	and 12.8	Fe	submitted by M.E. Hughes
CG-240, 6/29/54, 53.92	"	"	10.51	" " H.F. Shaw
OG-355, 9/2/54 47.61	"	"	11.94	" " H.F. Shaw
OG-356, 9/2/54 40.35	"	"	11.72	" " H.F. Shaw

Property not visited.

Informant: Jean W. Pressler, Grants Pass.

Report by: Len Ramp - 6/17/57.

rhuse

$\frac{16}{3 \overline{) 500}}$
 $\frac{3}{3 \overline{) 20}}$

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NEW CHROME OPERATION

The Cynthia chrome mine located in the NE $\frac{1}{4}$ of sec. 15, T. 41 S., R. 5 W., at about 5,000 feet elevation in the rugged Whiskey Peak area has been reactivated by the Thunderbird Mining Corporation of Medford, consisting of Frank Grover, Nate Smith and E. C. Brittsan. Starting last June about 6 miles of road were constructed from the end of Cougar Creek Road through Cougar Gap, and around the south side of Whiskey Peak to the mine.

The first shipments of chromite were made the middle of August and to date (9/12/57) about 100 tons of good grade chromite, assaying from 46 to 48 percent Cr₂O₃ with a 2.3 to 2.5 Cr:Fe ratio has been received at the Grants Pass chrome purchasing depot.

Earlier production of the mine was taken out on the trail by pack animals. During the first world war some ore was reportedly packed out by Chancy Florey, Medford, ~~and about 25 tons~~ In 1942, ~~by~~ Max Hughes, Murphy ~~re-~~ reportedly carried out 35 lbs for sampling purposes but no ore was shipped.

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

EXPLORATION AND DEVELOPMENT
STATUS OF EXPLOR. OR DEV. 8

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:
MASSIVE CHROMITE
FORM/SHAPE OF DEPOSIT: LENS

SIZE/DIRECTIONAL DATA
SIZE OF DEPOSIT..... SMALL
MAX WIDTH..... 3 FT
STRIKE OF OREBODY..... N 70 E
DIP OF OREBODY..... 40 SE

DESCRIPTION OF WORKINGS
SURFACE

PRODUCTION
YES
SMALL PRODUCTION

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

ITEM	ACC	AMOUNT	THOUS. UNITS	YEAR	GRADE, REMARKS
1 ORE EST		0000.144	TONS	1957	47. % CR2O3
21 TOTAL		.144	TONS	47.00	% CR2O3 (WEIGHTED AVERAGE GRADE)

PRODUCTION COMMENTS.... ORE REPORTEDLY TAKEN OUT BY PACK ANIMAL IN WWI

GEOLOGY AND MINERALOGY

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

GENERAL COMMENTS

RECORD NUMBER (M013349) 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) RAMP, L. AND PETERSON, N.V., 1979, GEOLOGY AND MINERAL RESOURCES OF JOSEPHINE COUNTY, OREGON; ODGMI BULL. 100, 45P

CRIB MINERAL RESOURCES FILE 12

RECORD IDENTIFICATION

RECORD NO..... M061139
 RECORD TYPE..... X1M
 COUNTRY/ORGANIZATION. USGS
 DEPOSIT NO..... DDGMI 100-470
 MAP CODE NO. OF REC..

REPORTER

UPDATED..... B1 02
 BY..... FERNS, MARK L. (BROOKS, HOWARD C.)

NAME AND LOCATION

DEPOSIT NAME..... CYNTHIA
 SYNONYM NAME..... S.P. #131, HITTSON'S CHROME PROSPECT

MINING DISTRICT/AREA/SUBDIST. WALDO

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

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

COUNTY..... JOSEPHINE
 DRAINAGE AREA..... 1801209 CALIFORNIA
 PHYSIOGRAPHIC PROV..... 13 KLAMATH MOUNTAINS
 LAND CLASSIFICATION..... 41

QUAD SCALE QUAD NO OR NAME
 1: 62500 OREGON CAVES

LATITUDE LONGITUDE
 42-00-34N 123-16-29W

UTM NORTHING UTM EASTING UTM ZONE NO
 4650660.4 477251.7 +10

TWP..... 041S
 RANGE..... 005W
 SECTION.. 15
 MERIDIAN. W.M.

ALTITUDE.. 4500

COMMODITY INFORMATION

COMMODITIES PRESENT