

REGISTERED
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STATE DEPT. OF GEOLOGY
& MINERAL INDS.

State Department of Geology and Mineral Industries

702 Woodlark Building
Portland 5, Oregon

PROSPECTORS DREAM (Chromite)

Curry County
Chetco Dist.

Owner: Betty Anne McCaleb.

Location: West edge of sec. 11, T. 38 S., R. 10 W., at about 3,300 feet elevation. It is less than $\frac{1}{2}$ mile by trail west of the "Little Siberia" chrome deposit, owned by Roy Jackson. The prospect is reached via the Illinois River Road for 12 miles, then by turning left on the Chetco Pass Road up Rancherie Creek and down across Sourdough Flat. The end of the road to the right just beyond Sourdough Creek, is about 7 miles from the Illinois River Road.

History and Production: The prospect was worked for a short time by R. E. McCaleb in 1942 (?). A small amount of ore was taken out by pack animal. The tenor of the ore was reportedly near 42 percent chromic oxide content.

Geology: The prospect is on the SW slope of a steep hillside underlain by a coarse-grained peridotite. It is about 100 yards northeast of the serpentine-hornblende diorite contact. The deposit consists of several apparently isolated lens-like segments of a chromite layer which vary in thickness from a maximum of nearly 3 feet down to less than $\frac{1}{2}$ inch (see sketch map). In a distance of 200 feet of outcrop the average thickness is approximately 6 inches. Strike of the chromite layer varies from N. 20° W. to N. 32° W.; and dips are from 50 to 65° NE. This trend is nearly parallel to that of the serpentine-hornblende diorite contact below the deposit. The chromite layer has been off-set slightly along several small parallel faults, most of which trend N. 60° E. The northwest side

of most of the faults has been offset slightly to the southwest.

The country rock near the deposit is a partly serpentized, very coarse-grained dunite. Occasional olivine crystals are as large as 2 inches in diameter.

The deposit is perhaps the best exposed of the chromite deposits in SW Oregon. Further prospecting along the strike of such deposits may lead to discovery of other segments. The layer is discontinuous, having been drawn out along the strike to a narrow trace. It completely disappears on the surface only to reappear again along the strike.

An ore body of this type must have formed by magmatic segregation, i.e., the chromite crystallized out at about the same time as the olivine and rare pyroxene in the surrounding peridotite. The accumulation of chromite crystals under the influence of gravity followed by flowage of the still plastic magma during intrusion could explain the formation of such deposits.

Date visited: 7/21/54.

Informant: R. E. McCaleb

Report by: L. R.

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RECORD IDENTIFICATION

RECORD NO..... M061573
 RECORD TYPE..... X1M
 COUNTRY/ORGANIZATION. USGS
 DEPOSIT NO..... DDGM1 93-5
 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..... PROSPECTORS DREAM

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

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

Chater Dist

COUNTY..... CURRY
 DRAINAGE AREA..... 17100312 PACIFIC NORTHWEST
 PHYSIOGRAPHIC PRDV..... 13 KLAMATH MOUNTAINS
 LAND CLASSIFICATION..... 43

QUAD SCALE QUAD NO OR NAME
 1: 62500 PEARSOLL PEAK

LATITUDE LONGITUDE
 42-16-38N 123-51-13W

UTM NORTHING UTM EASTING UTM ZONE NO
 4680700. 429610. +10

TWP..... 38S
 RANGE..... 10W
 SECTION.. 11
 MERIDIAN. W.M.

ALTITUDE.. 3280 FT

POSITION FROM NEAREST PROMINENT LOCALITY: 1.5 MILES SOUTH PEARSOLL PEAK

COMMODITY INFORMATION

COMMODITIES PRESENT..... CR RH

PGM OCCUR

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

ANALYTICAL DATA (GENERAL)
REPORTED TO ASSAY ABOUT 42% CR₂O₃ ; RH 0.013 PPM

EXPLORATION AND DEVELOPMENT
STATUS OF EXPLOR. OR DEV. 1

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:
DISSEMINATED
FORM/SHAPE OF DEPOSIT: LENS, WISPS, SCHLIEREN

SIZE/DIRECTIONAL DATA
SIZE OF DEPOSIT..... SMALL
MAX WIDTH..... 3 FT.
STRIKE OF OREBODY.... N20-32W
DIP OF OREBODY..... 50-65NE
COMMENTS (DESCRIPTION OF DEPOSIT):
OFFSET SEGMENTS OF A SINGLE LAYER

PRODUCTION
YES
SMALL PRODUCTION

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

ITEM	ACC	AMOUNT	THOUS. UNITS	YEAR	GRADE, REMARKS
1 ORE SML					

PRODUCTION YEARS..... 1942 (?)

PRODUCTION COMMENTS.... TAKEN OUT BY PACK ANIMAL

GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS..... JUR
IGNEOUS ROCK TYPES..... HORNBLende DIORITE

PERTINENT MINERALOGY..... TALC, CHROME CHLORITE, ARAGONITE

GEOLOGICAL DESCRIPTIVE NOTES. TREND OF CR LENSES APPROXIMATELY PARALLEL TO CONTACT OF DUNITe & HORNBLende DIORITE