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 ½ 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 ½ 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 serpentinized, 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.

* * * * *
CRIB MINERAL RESOURCES FILE 12

RECORD IDENTIFICATION
RECORD NO.................. MO61573
RECORD TYPE................ XI
COUNTRY/ORGANIZATION: USGS
DEPOSIT NO.................. D001 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

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

QUAD SCALE 1: 62500
QUAD NO OR NAME.............. PEARSELL PEAK

LATITUDE 42-16-30N
LONGITUDE 123-51-13W

UTM NORTING 4680700
UTM EASTING 429610
UTM ZONE NO +10

THP........... 385
RANGE........... 10W
SECTION........ 11
MERIDIAN..... W.M.

ALTITUDE........ 3260 FT

POSITION FROM NEAREST PROMINENT LOCALITY: 1.5 MILES SOUTH PEARSELL PEAK

COMMODITY INFORMATION
COMMODITIES PRESENT......... CR RH
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, NISP, SCHLIEREN

SIZE/DIRECTIONAL DATA
SIZE OF DEPOSIT: SMALL
MAX WIDTH: 3 FT.
STRIKE OF OREBODY: N20-32W
DIP OF OREBODY: 50-65°E

COMMENTS (DESCRIPTION OF DEPOSIT):
OFFSET SEGMENTS OF A SINGLE LAYER

PRODUCTION
YES
SMALL PRODUCTION

ANNUAL PRODUCTION (ORE, COMM., CONC., OVERBURD.):

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<th>ACC</th>
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<th>THOUS. UNITS</th>
<th>YEAR</th>
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PRODUCTION YEARS: 1942 (?)

PRODUCTION COMMENTS: TAKEN OUT BY PACK ANIMAL

GEOL OGY AND MINERALOGY

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

PERTINENT MINERALOGY:
TALC, CHROME CHLORITE, ARAGONITE

GEOL OGY GEOLOGICAL DESCRIPTIVE NOTES:
TREND OF CR LENSES APPROXIMATELY PARALLEL TO CONTACT OF DUNITE & HORNBLende DIORITE

LOCAL GEOLOGY