

RECORD IDENTIFICATION

RECORD NO..... M061589
RECORD TYPE..... XIM
COUNTRY/ORGANIZATION. USGS
DEPOSIT NO..... DDGMI 100-258
MAP CODE NO. OF REC..

REPORTER

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

NAME AND LOCATION

DEPOSIT NAME..... CROWN
SYNONYM NAME..... HAMMER (SAME AS UPPER HAMMON #382)

MINING DISTRICT/AREA/SUBDIST. ILLINOIS RIVER

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 PEARSOLL PEAK

LATITUDE LONGITUDE
42-19-44N 123-45-40W

UTM NORTHING UTM EASTING UTM ZONE NO
4686350. 437280. +10

TWP..... 037S
RANGE..... 009W
SECTION.. 28
MERIDIAN. W.M.

ALTITUDE.. 3050

COMMODITY INFORMATION

COMMODITIES PRESENT..... CR CU

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

ORE MATERIALS (MINERALS, ROCKS, ETC.):
CHROMITE; CHALCOPYRITE, MALACHITE

COMMODITY COMMENTS:
ONE SAMPLE CONTAINED COPPER SULFIDES

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
DEPTH TO BOTTOM..... 50 FT
STRIKE OF OREBODY.... N 10 E
DIP OF OREBODY..... 65 E

COMMENTS(DESCRIPTION OF DEPOSIT):
SMALL CLOSELY SPACED SUPER IMPOSED LENSES

PRODUCTION
YES
SMALL PRODUCTION

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

ITEM	ACC	AMOUNT THOUS. UNITS	YEAR	GRADE, REMARKS
1 ORE EST	0000.045	TONS	1955	44. % CR2O3
2 ORE EST	0000.008	TONS	1955	44. % CR2O3
3 ORE EST	0000.009	TONS	1956	47. % CR2O3
4 ORE EST	0000.007	TONS	1958	49. % CR2O3
5 ORE ACC	0000.027	TONS	1954	50. % CR2O3, 53. % CR2O3 (CONC.)

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

ITEM	ACC	AMOUNT THOUS. UNITS	YEAR	GRADE, REMARKS
15 ORE EST	0000.075	TONS	1952-1953	
16				48-52% CR2O3
21 TOTAL	.171	TONS	47.94	% CR2O3 (WEIGHTED AVERAGE GRADE)

AGE OF HOST ROCKS..... JUR
 HOST ROCK TYPES..... DUNITE (SERPENTINIZED)
 PERTINENT MINERALOGY..... CHROME CHLORITE, TALC, CALCITE, ANTIGORITE

LOCAL GEOLOGY

NAMES/AGE OF FORMATIONS, UNITS, OR ROCK TYPES

- 1) NAME: JOSEPHINE PERIDOTITE
 AGE: JJR

SIGNIFICANT LOCAL STRUCTURES:
 SHEARED

SIGNIFICANT ALTERATION:
 HYDROTHERMAL ALTERATION; SERPENTINIZATION

GENERAL COMMENTS

RECORD NUMBER (M013641) 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.
 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
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