

State Department of Geology and Mineral Industries

702 Woodlark Building
Portland 5, Oregon

Josephine County
Illinois River District

Preliminary Report on Lucky Star Chrome Mine

Location: NW $\frac{1}{4}$ sec. 21, T. 37 S., R. 9 W., 920 feet (aneroid), below the Illinois River road about 15 miles from Selma.

Owner: E. K. McTimmonds, Selma, Oregon.

Work on the Lucky Star property began in the spring of 1952. By October 1952, the main tunnel was nearly 80 feet long and a 25-foot crosscut to the west had been dug about 20 feet in from the portal. Approximately 115 tons of 46 to 52 percent Cr₂O₃ ore had been removed in this period.

The ore is a high-grade massive variety found in fairly flat lying stringers which vary in width from a few inches up to about 4 feet. These stringers appear to increase in dip into the hill with depth. This is apparently due to "creep" which results in more rapid downhill movement of the near surface material than that at greater depth. Country rock is broken and blocky appearing serpentine with talc stringers and angular dunite boulders. Tunneling, therefore, necessitates careful timbering. Backfilling of stopes would probably be desirable in this "heavy" ground.

Wooden tracks had been laid in the main tunnel and waste material was towed out by means of a windlass. A wheelbarrow was used to haul ore.

A sample of ore taken from the ore bin assayed 48.56 percent Cr₂O₃ and 12.97 percent Fe (P-13576, MG-448). Ore throughout the mine appears to be of a uniform high grade.

Visited: 10/9/52 by D.J.W., J.M., and L.R.

Informants: E. K. McTimmonds and John McWilliams (USRM).

Report by: L. R.

RECORD IDENTIFICATION

RECORD NO..... M061604
RECORD TYPE..... X1M
COUNTRY/ORGANIZATION. USGS
DEPOSIT NO..... DDGMI 100-24B
MAP CODE NO. OF REC..

REPORTER

UPDATED..... B1 03
BY..... FERNS, MARK L. (BROOKS, HOWARD C.)

NAME AND LOCATION

DEPOSIT NAME..... LUCKY STAR
MINING DISTRICT/AREA/SUBDIST. CENTRAL 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
42-20-34N 123-46-22W

UTM NORTHING UTM EASTING UTM ZONE NO
4687920. 486350. +10

TWP..... 037S
RANGE..... 009W
SECTION.. 21
MERIDIAN. W.M.

ALTITUDE.. 950

COMMODITY INFORMATION

COMMODITIES PRESENT..... CR

PRODUCER(PAST OR PRESENT):

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:

MASSIVE CHROMITE

FORM/SHAPE OF DEPOSIT: CRUSHED

SIZE/DIRECTIONAL DATA

SIZE OF DEPOSIT..... SMALL
MAX LENGTH..... 100 YD
MAX WIDTH..... 4 FT
DIP OF OREBODY..... FLAT

DESCRIPTION OF WORKINGS

SURFACE

SURFACE AND UNDERGROUND

PRODUCTION

YES

SMALL PRODUCTION

CUMULATIVE PRODUCTION (DRE, COMMOD., CONC., DVERBUR.)

ITEM	ACC	AMOUNT	THOUS. UNITS	YEAR	GRADE, REMARKS
15 DRE EST		0000.574	TONS	1952-1958	43% CR2O3 TO 48% CR2O3
21 TOTAL		.574	TONS	45.88	% CR2O3 (WEIGHTED AVERAGE GRADE)

PRODUCTION COMMENTS..... 2.5:1 CR:FE RATIO

GEOLOGY AND MINERALOGY

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

PERTINENT MINERALOGY..... TALC

LOCAL GEOLOGY

SIGNIFICANT LOCAL STRUCTURES:
LANDSLIDE

GENERAL COMMENTS

SEE ALSO JIM BUS AND MIDNIGHT. RECORD NUMBER (M013637) HAS BEEN MERGED WITH THIS RECORD AND DELETED FROM THE OREGON FILE.