

MOUNTAIN LION MINE (gold) LOWER APPLGATE DIST. JOSEPHINE county

The Mountain Lion mine is 12 miles southeast of Grants Pass and 1 mile north of Davidson in Sec. 25, T. 37 S., R. 5 W. It is owned by L. L. Jewell, of Grants Pass, and is under bond and lease to C. G. Murphy, of Applegate.

When visited in August, 1913, the main adit was caved and could not be seen; the upper adit (No. 2) is about 500 feet long, with more than 300 feet on the vein which is 4 to 36 inches wide with 0 to 24 inches of quartz and the remainder crushed greenstone. A sample of the country rock contains rare phenocrysts of augite in a matrix of abundant green hornblende (altering to serpentine) and plagioclase, almost wholly sericitized with the production of some secondary calcite and quartz. The main adit is said to be more than 1200 feet long with the ore stoped out above.

The Mountain Lion mine is equipped with a boiler, engine, air compressor, and a 5-stamp mill having 900-pound stamps, a crusher, an 8-foot plate with riffles below, and a concentrator. Adolf Meyer experimented here with a magneto-electric process which is no longer in use. According to Kay,

"The property has been extensively developed, there being about 8000 feet of crosscuts, drifts and other workings. Work has been done on two veins which are in greenstone and slates and which are close to the contact of these rocks within an area of granodiorite. The slates occur as narrow lenses in the greenstones and the best ore of the veins has been obtained near the contacts of the greenstones and the slates. The better-defined vein of the two strikes N. 80° W. and dips 65° S. It averages about 1 foot in width and is faulted at many places. The vein filling consists chiefly of quartz, calcite, and sulfides, the sulphides constituting about 1 per cent of the whole. Owing to the prevalence of faults the vein has been difficult to follow."

Taken from "The Mineral Resources of Oregon", Oregon Bureau of Mines and Geology, H.M. Parks and A. M. Swartley, Volume 2, Number 4, December, 1916.

The Mountain Lion is near Davidson in section 25, T. 37 S., R. 5 W. When visited in August, 1913, the main adit was caved and could not be seen; the upper adit (No. 2) is about 500 feet long, with more than 300 feet on the vein which is 4 to 36 inches wide with 0 to 24 inches of quartz and the remainder crushed greenstone. A sample of the country rock contains rare phenocrysts of augite in a matrix of abundant green hornblende (altering to serpentine) and plagioclase, almost wholly sericitized with the production of some secondary calcite and quartz. The main adit is said to be more than 1200 feet long with the ore stoped out above.

The Mountain Lion mine is equipped with a boiler, engine, air compressor, and a 5-stamp mill having 900-pound stamps, a crusher, an 8-foot plate with riffles below, and a concentrator. Adolf Meyer experimented here with a magneto-electric process which is no longer in use. According to Kay, the mine "was discovered in 1889 by Messrs. Bailey, who with Davidson, Jewell, and Harmon, are the present owners. The property has been extensively developed, there being about 8000 feet of crosscuts, drifts and other workings. Work has been done on two veins which are in greenstone and slates and which are close to the contact of these rocks within an area of granodiorite. The slates occur as narrow lenses in the greenstones and the best ore of the veins has been obtained near the contacts of the greenstones and the slates. The better-defined vein of the two strikes N. 80° W. and dips 65° S. It averages about 1 foot in width and is faulted at many places. The vein filling consists chiefly of quartz, calcite, and sulphides, the sulphides constituting about 1 percent of the whole. Owing to the prevalence of faults the vein has been difficult to follow". The mine has been idle during the last few years.

From The Mineral Resources of Oregon by Oregon Bureau of Mines and aGeology, by A.N. Winchell, Volume 1, Number 5, August, 1914.

Kay (U.S. Geol. Survey Bulletin 380, p. 59, 1909)



## CRIB MINERAL RESOURCES FILE 12

## RECORD IDENTIFICATION

RECORD NO..... M061071  
 RECORD TYPE..... XIM  
 COUNTRY/ORGANIZATION. USGS  
 DEPOSIT NO..... DDGMI 100-300  
 MAP CODE NO. OF REC..

## REPORTER

NAME..... JOHNSON, MAUREEN G.  
 UPDATED..... 81 03  
 BY..... FERNS, MARK L. (BROOKS, HOWARD C.)

## NAME AND LOCATION

DEPOSIT NAME..... MOUNTAIN LION PROSPECT

COUNTRY CODE..... JS  
 COUNTRY NAME: UNITED STATES

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

COUNTY..... JOSEPHINE  
 DRAINAGE AREA..... 17100309 PACIFIC NORTHWEST  
 PHYSIOGRAPHIC PROV..... 13 KLAMATH MOUNTAINS  
 LAND CLASSIFICATION..... 49

QUAD SCALE            QUAD NO OR NAME  
 1: 62500            GOLD HILL

LATITUDE            LONGITUDE  
 42-19-35N           123-14-40W

UTM NORTHING        UTM EASTING        UTM ZONE NO  
 4685841.3           479869.5           +10

TWP..... 37S  
 RANGE..... 05W  
 SECTION.. 25  
 MERIDIAN. WILLAMETTE

## COMMODITY INFORMATION

COMMODITIES PRESENT..... AU

## PRODUCER(PAST OR PRESENT):

MAJOR PRODUCTS.. AJ  
 MINOR PRODUCTS.. AG

COMMODITY SUBTYPES OR USE CATEGORIES:  
1.48 AU:AG

EXPLORATION AND DEVELOPMENT  
STATUS OF EXPLOR. OR DEV. 8

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:

VEIN

FORM/SHAPE OF DEPOSIT:

SIZE/DIRECTIONAL DATA

SIZE OF DEPOSIT..... SMALL  
MAX LENGTH..... 300 FT  
MAX WIDTH..... 36 INCHES  
STRIKE OF OREBODY.... N80W  
DIP OF OREBODY..... 65S

COMMENTS(DESCRIPTION OF DEPOSIT):

TWO VEINS DEVELOPED

DESCRIPTION OF WORKINGS

LENGTH OF WORKINGS..... 1200 FT

COMMENTS(DESCRIP. OF WORKINGS):

OVER 8000 FEET OF CROSSCUTS, DRIFTS, AND STOPES

PRODUCTION

YES

SMALL PRODUCTION

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

ITEM	ACC	AMOUNT	THOUS. UNITS	YEAR	GRADE, REMARKS
1 ORE SML		.391	TONS		
2 AU SML		.055	OZ	.141	OZ/T
3 AG SML		.037	OZ	.095	OZ/T
23 ORE, SML		.390+	TONS	1889-1935	0.14 AU, 0.1 AG

PRODUCTION YEARS..... 1934-1935

SOURCE OF INFORMATION (PRODUCTION).. USBM

PRODUCTION COMMENTS..... PRE-1914 PRODUCTION MAY HAVE BEEN CONSIDERABLE.

GEOLOGY AND MINERALOGY