





MEMORANDUM REPORT

Re: Fort Knox - Cu  
 Sec. 28, T33S, R4W, WM  
 Jackson County, Oregon

October 28, 1957

From: R. L. Anderson

Subject property was visited October 8, 1957, with Mr. Van Nielson. Three north-south claims along the general strike of the structure and one east-west claim on Graves Creek are held by location by the Minerals and Metals Exploration Company. Three more claims adjoining the first three are claimed but are in dispute.

The property is reached by following Highway 99 fifteen miles northerly from Grants Pass to Sun Valley, thence up Graves Creek through Placer, thence about nine miles northeasterly along improved forest service road, thence one-half mile southerly up a steep jeep road to the only workings.

Development work on this property has included a tunnel from which production is said to have come. Copper-bearing ore was said to have been shipped during the first world war. Recent bulldozing, however, has obscured the old tunnel entrance, making underground observation impossible.

The surface cut made with bulldozer has exposed copper mineralization in serpentine without definitely defined vein walls. The main structure appears to strike S20W, and dip 78 E. Four inches white gouge on the east side of the cut may be the east wall. This gouge strikes S15E, 90° dip. Sample SM 514 was cut westerly, 7.5 feet from this gouge. The next sample continued nine feet westerly, SM 515, to the first visible sulfide mineralization. This cut included 1.5 feet of limonite. Sample SM 516 continued nine feet westerly, contained visible chalcopryrite and pyrrhotite. Sample SM 517 continued eight feet westerly to a possible wall which strikes S10E. This section appeared to contain the most sulfides. Flat lying east-west faulting caused the mineralization to appear about double its true width where bulldozed.

One thousand feet N10W from the bulldozer cut an exposure of sheared, rotten shale stained with considerable pyrolusite and limonite is seen along the road. A cut, SM 518, was taken to check precious metal content.

	Cut Ft.	Oz. Au	Oz. Ag	% Cu	% Ni
SM 514	7.5	Tr	.16	.1	No
515	9	Tr	.14	.35	No
516	9	Tr	Tr	1.1	No
517	8	Tr	.16	3.8	No
518	17	Tr	.16	Tr	

Diamond drilling might well prove up a small tonnage of 4% to 10% copper on this property if too much difficulty is not encountered getting recovery in the faulted zone in which the copper occurs. Prior to any

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diamond drilling program, a drift along the structure with crosscutting to each wall would give a better picture of the mineralization pattern.

During inspection of the property the question continued in mind as to the size of copper ore bodies in serpentine in general and in this area in particular. Discussion with Mr. Hugh Wright of Happy Camp, California, who has inspected several of the copper prospects in the area, disclosed that there are a good many prospects in a zone more than twenty miles long but that not one of them contains enough quantity of copper mineral to become a mine. This confirmed the supposition of the writer.

Conclusion:

Although there is sufficient structure and mineralization exposed in one bulldozer cut on the property to warrant further work, it is expected that some small tonnage of direct shipping ore will be developed but that the pod or pods found will be insufficient to support a real mining operation.

It is felt that the property warrants no further consideration by Sunshine.

These three properties, the Fort Knox, the Mountain View, and the Lucky Strke, were visited with Mr. Van Nielson of Grants Pass, following your discussion with Mr. Harold Hull and/or Mr. Joe Greenough.

None of the three is thought to be of interest to Sunshine, principally because of probable lack of potential tonnage. Each has sufficient mineralization to be a teaser and work on any one of them could not be condemned.

Mr. Nielson is anxious to hear of our decisions. Whether or not you wish to inform him or leave that to Mr. Hull or Mr. Greenough, Mr. Nielson should be contacted to inquire about the definite location, ownership, and type of deal available on a gypsum property discussed with a Mr. Cox who accompanied the two of us on the trip to the Lucky Strike. I attempted to contact Mr. Cox on my return north through Medford but he has no phone. The gypsum property is in Colorado, on the Colorado River, near Glenwood Springs, essentially on the railroad.

Mr. Cox also had in mind that we should take any or all of several hundred claims in a zone running north-south and lying northeast of the Lucky Strike but being accessible from the Medford side of the mountains rather than the Klamath River side. The area is not considered by the California Department of Natural Resources to be a copper area. Mr. Cox had nothing specific to offer and I did not feel it worth while to attempt inspection of eight to ten miles of old claims in a poor zone. Such was impossible anyway since a meeting had been scheduled the next day with Mr. G. C. Taylor.

Minerals and Metals Exploration Company, represented by Mr. Nielson, has also some "uranium" ground near Silver Peak, Nevada. Knowing that several hundred square miles have been located in the area without, to my knowledge, one producer, he was told that I was not interested in making a trip to the area.



*R R Anderson*

# State Department of Geology and Mineral Industries

1069 State Office Building  
Portland 1, Oregon

FORT KNOX COPPER (Formerly Lucky Towell)

Jackson County  
Gold Hill Dist.

Owner: <sup>in 1957 were</sup> Junior Dennis Eugene Oregon

Owners: Minerals and Metals Development Co., Grants Pass, Oregon.

Some of the members are: Glen Geer, Wm. H. Gix, C. U. Nielsen, Ernest Pool, Arthur Schneider, Mark Schneider, Van Walkenburg, Everett Robinson and Mrs. V. A. C. Ahlf, attorney. The occurrence is on private properties owned by Herbert Dahlke and the Dollar Lumber Co.

Location: The main workings lie near the center of the NE $\frac{1}{4}$  of sec. 28, T. 33 S., R. 4 W., along a small creek at about 2950 feet elevation. It is reached by 3/4 mile of steep jeep road which leaves the Grave Creek Road and fords Grave Creek about 14 miles from Sunny Valley.

*Produced 2000 tons in WW I (EdM) 5*

Production: A small shipment of 3,066 pounds of 6.1 percent copper and 839 pounds of 10.93 percent copper was reportedly made by truck to the Tacoma smelter in January 1957.

Development: Workings consist of a caved tunnel and 2 levels of open cut area connected by a road. The tunnel is reportedly about 100 feet in length, and heads in a S. 20° E. direction from the lower cut or terrace.

Geology: Chalcopyrite, pyrite, and pyrrhotite occur in small massive pods and disseminated in sheared metavolcanic rocks at the contact of a body of serpentine. The mineralization appears to be in a north-trending shear zone lying along the east side of the serpentine. A small gossan area, about 50 feet long and 15 feet wide, overlies the tunnel.

Pyroxenite and diorite float were found on the slope south and east of the occurrence.

A preliminary magnetometer survey of the immediate area of the occurrence was made by J. W. Pressler and the results are attached to this report.

Visited: 5/24/57 by Len Ramp accompanied by Jean W. Pressler.

Report: 7/19/57 by Len Ramp.

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CRIB MINERAL RESOURCES FILE 12

RECORD IDENTIFICATION

RECORD NO..... M061800  
RECORD TYPE..... XIM  
COUNTRY/ORGANIZATION. USGS  
MAP CODE NO. OF REC..

REPORTER

NAME..... JOHNSON, MAUREEN G.  
UPDATED..... 81 01  
BY..... FERNS, MARK L.; (BROOKS, HOWARD C.)

NAME AND LOCATION

DEPOSIT NAME..... FORT KNOX AND LUCKY TOVELL AND LUCKY TOVELL

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

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

COUNTY..... JACKSON  
DRAINAGE AREA..... 17 ROGUE RIVER  
PHYSIOGRAPHIC PROV..... 13 KLAMATH MOUNTAINS  
LAND CLASSIFICATION..... 00

QUAD SCALE            QUAD NO OR NAME  
1: 62500            WIMER

LATITUDE            LONGITUDE  
42-40-37N            123-10-26W

UTM NDRTHING        UTM EASTING        UTM ZONE NO  
4724750.            485750.            +10

TWP..... 33S  
RANGE.... 04W  
SECTION.. 28  
MERIDIAN. WILLAMETTE

COMMODITY INFORMATION

COMMODITIES PRESENT..... CU

PRODUCER(PAST OR PRESENT):  
MAJOR PRODUCTS.. CJ

COMMODITY SPECIALIST INFORMATION:

EXPLORATION AND DEVELOPMENT  
STATUS OF EXPLOR. OR DEV. 8

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:

VEIN?/SHEAR ZONE VOLCANOGENIC  
FORM/SHAPE OF DEPOSIT: PODS & DISSEMINATED

SIZE/DIRECTIONAL DATA

SIZE OF DEPOSIT..... SMALL

PRODUCTION

YES  
SMALL PRODUCTION

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

ITEM	ACC	AMOUNT	THOUS. UNITS	YEAR	GRADE, REMARKS
1 ORE	ACC	3.066	LBS	1957	6.1% CU
2 ORE	ACC	.839	LBS	1957	10.93% CU
23 ORE,	ACC	3.905	LBS	1957	7.13 CU

GEOLOGY AND MINERALOGY

HOST ROCK TYPES..... GREENSTONE (BASALT)  
IGNEOUS ROCK TYPES..... SERPENTINE

GEOLOGY (SUPPLEMENTARY INFORMATION)

REGIONAL GEOLOGY  
TECTONIC SETTING..... OPHIOLITE?

LOCAL GEOLOGY

SIGNIFICANT LOCAL STRUCTURES:  
SHEAR ZONE

SIGNIFICANT ALTERATION:  
GOSSAN

COMMENTS (GEOLOGY AND MINERALOGY):

PODS OF MASSIVE SULFIDES OCCUR IN SHEARED METABASALT NEAR A CONTACT WITH SERPENTINE.

GENERAL COMMENTS

MAGNETOMETER SURVEY MADE.