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STATE OF NEVADA



JAY A. CARPENTER, DIRECTOR

Burrau

of Mines

MACKAY SCHOOL OF MINES RENO, NEVADA

January 4, 1947

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Jay A. Carpenter, Director Nevada State Bureau of Mines Mackay School of Mines Reno. Nevada

Dear Jay:

In compliance with your verbal instructions I accompanied Messers Louis J. Lundgren and Harold B. Swanson to Babbitt, Nevada, December 13th, for the purpose of examining their mining property. The following findings are submitted for your information.

Both gentlemen are employed by the E.S. Navy in the Hawthorne Ammunition Depot. Mr. Swanson works in the rework department, and Mr. Lundgren holds either a clerical or accounting job as a civilian administration assistant. They are enthusiastic prospectors, using their spare time and annual leave for this avocation. Both admittedly lack technical training for mining. however Mr. Swanson attended one of Mr. D. C. Camerons Vocational Prospector's classes. Swanson and Lundgren both expressed their appreciation for your assistance in extending to them the facilities of the Bureau.

The property examined Saturday December 14th, 1946, consists of four mining claims known as the Acme group, situated in the Garfield Mining district of Mineral County. More specifically they are situated about 18 miles, by road, southeast of Hawthorne and about four miles northwest from the Mabel and Garfield mines, at an approximate elevation of 5,500 feet above sea level.

The property is an old one now held by relocation. The present locators have not shipped ore from the property, but they have about ten ton of medium grade oxidized lead-silver ore segregated on the dump of No. 2 shaft, Acme No. One claim. Former operators apparently recovered some ore from the oldest shaft. now known as No. three shaft. On the fifty foot level 34 feet from the shaft in the east drift, a thirty foot winze appears. The winze is in a circular pipe of mineral controlled by the intersection of two faults with the easttrending calcite vein. Remnants of the mineral in this winze show lead carbonate, wulfenite, zinc silicates and extensive hematite staining of the silicified limestone walls. Between 50 and 60 tons of mineral were removed from the winze and presumably shipped as no trace of this character of material appears on the dump.

JAY A. CARPENTER, DIRECTOR



BOX C, UNIVERSITY STATION

MACKAY SCHOOL OF MINES RENO, NEVADA

J. A. C. Re: Acme group, Mineral Coy, 1/4/47 Page 2

Limited possibilities for developing additional ore appear to be in exploring geological structural occurance similar to the ones in the winze and in shaft No. two. Namely where northtrending faults intersect the eastward striking calcite veins.

These possibilities were described to Messers Lundgren and Swanson verbally while I was on the ground with them and in the enclosed reconnaissance report in which is included a block diagram to guide them in exploring the property.

The mineralized area seems to parallel the axis of an anti-clinical flexure in the traissic sediments, principally light collored limestones, which plunges down to the west. Flanking the limestone block on the north and in fault contact with the lime is a diorite formation. From the hasty megasopic examination of the rocks it is not certian whether thealtered dark rock is a diorite or possibly a meta-andesite. North and east of the property the basement rocks are covered by andesitic tuffs and flow rocks. South of the claims a widewash filled with alluvium obscures the underlying formations and beyond the wash Tertiary flow rocks reappear.

If the suggested exploration work is followed and uncovers some ore the claims are worthy of a more formal examination.

Enclosed is a copy of the reconnaissance report and sketches made of the Acme ground.

Respectfully yours,

T.D. Overton

Engineer or the Bureau

JAY A. CARPENTER, DIRECTOR B. F. COUCH, SECRETARY



BOX C, UNIVERSITY STATION

MACKAY SCHOOL OF MINES RENO, NEVADA Dosember 30th, 1946

Recommaissance Report of:

Acme 1,2,3 and 4 mineral loss claims, Garfield District, Mineral County, Hovada,

Situated approximately 18 miles southeast of Hawthorne and about 25 miles south of Kinksid siding on the Mina brench of the Outhern Pacific Railroad. The claims are 5,400 feet above sea level and accessible through out the year, with to the exception of a few days after occasional winter storms, by a fair desert road, which intersepts the highway 8 miles east of Hawthorne.

Abstract: The claims parallel an anticlinal flaxure in light-colored Triaccia limestone, probably "Sunrise Formation", (1), flanked on the north by a block of diorite ordishace in fault contact with the sediments. North and east of the claims Tertiary and esitic tuffs and flow rocks overlie the basement rocks and an alluvial wash obscures them south of the claims.

Wineralization occurs along an east-trending celeits vein where cross faults intersect this vein to create more favorable solution channels. Small amounts of argentiferous galena are seattered along the vein, but the potential ore deposits seem to be confined in crushed areas or pipes at the intersection of faults with the vein. The mineral exposed in these areas are completely oxidised, showing lead carbonate, sine silicates, wulfenite and extensive hematite staining on the limestone walls. The gangue is principally quarts, calcite and barite.

Approximately fifty tons of mineral has been removed from a winse sunk below the east-50-foot-level from the No.3 shaft by former operators. This 'pipe' appears typical of the structural control of mineralization, occurring as it does, at the intersection of two faults with the calcits vein.

With the above occurance as a guide the following recommendations are proposed to explore your property for possible remaining ore.

1/ Siemon Wm. Meller and Henry G. Ferguson, 1939; Geological Society of America Vol.50, pp. 1575-1624.

Page one.

Recommendations:

1- Drive west through the fault from the south end of cross out, shaft No.1, and raise toward the mineral in the bottom of shaft No.2. Test for both lead and sins minerals, as this faulted area is a likely place for secondary minerals to accumulate.

2- Sink the winze on the east-50-drift from shaft No.3, through the fault and test for sine silicates. Zine is likely to migrate more readily than lead during sepondary leaching and exidization, and is therefore often found below exidized lead deposits. Unfortunately zine silicates are difficult to recognize due to their similarity to exidized silicacus vein matter. They often occur with heavy iron and mangeness exide staining which imparts various colors to the zine silicate. It readily forms a geletinous precipitate when the powdered mineral is boiled in bydrochloric acid. This test will help you to sort out any sine silicates that may be present in your ore.

3- Prespect for the upward extraction of the mineral pipe, which may occur on the surface 45 to 60 feet east of No. 3 shaft and along the strike of the voin. If the fault continues to the surface its presence may be obscured by soil slumping into the crushed area. Prench across the vein in several places and particularly in depressions, also pan or test the rock from the booker of these transhes.

4- The fault zone between the limestone and the dicrite may have occured later than the mineralization but from the silicified matter found in the fault zone just north of the northwest corner of Asme No.4 it is worthy of prospecting. Trace this fault northeastmard into the canyon, which is north of your claims, to a point north of the saddle where the northeast-trending fault would be intersected by the fault from the saddle.

5- In a similar manner trace the faults exposed in your surface test pits north abd northeast of the blacksmith shop eastward to a point of intersection with the south extension of the saddle fault, traversing the east end of Acme No.4 claim.

Geology: The oldest rocks associated with your property are Mesozoic sediments composed of marine limestones, dolomite and endurated shales or hornfels. Intruded into the area and faulted up and exposed by erosion is a dark igneous rock, probably a diorite or diabase. This formation may or may not responsible for the mineralization as it does not show an igneous contact with the sediments on the property. Overlying these basement rocks is a series of hornblende andesite tuffs and lavas, which occur on the north edge of Acme No.4 and east of the property in the canyon.

Acme reconnaissance report, 2/30/46, page three.

The andesite is likely Tertiary in age and the basalt exposed west of the claims is still younger than the andesite

The major structural features include the anticlinal flexure of the limestone and dolomite beds and the northeast trending faults that dislocate the sediments. The anticline plunges west and disappears under the alluvium of the wash.

Observation of the development work demonstrates that the best mineral showing cours where cross faults intersect the eastward trending veins. The calcite veins roughly parallel the axis of the anticlinal fold in the sediments. With this in mind it is logical to prospect for similar of parallel conditions of structural control, as previously enumerated under the recommendations.

Sampling: The few check samples taken at the time of the reconnaissance examination did not yield very encouraging results, but they do show mineralisation that will help to guide continued prospecting. See block diagram for sample positions.

No.	Width(inches) Description	Oz.Gold	1-0s,Silv	er-% 16 0	d-\$Zine	ı,
8-1	30 26ft, out, west side, 8, crossout; Shaft-1.	none	0.98	tr.	2.9	
8-2	18 SE cor. Shaft No.2 14 ft. below collar.	none	8,60	4.7	11.0	
S-3	6 Nest-50-Drt., 3 ft. from sheft Nos.	tr.	14.84	13.8	14.8	
8-4	10 Streak 6 ft. out in W. X-out, Sh. 3. (barite	none gangue)	2.38	0.4	1.9	
8-6	48 W. well, bottom of winse, 24 ft., E50-Dft. Shoft No. 3.	none	8.00	tr.	2.0	

The isogonic block sketch is inclosed to assist in visualizing the position of the three shafts and the relationship of faulting to the mineralization.

Respectfully yours,

T.D.Overton, Engineer for the Bureau No.276.

