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Tully Re Kim

I am enclosing herewith my Sup Engineers Report on the above captioned project.

Supervising Engineer Cazier assisted and collaborated in the examination.

Enclosure.

All Work Data

Sup Eng Report

2 ~~3~~ Sketches

1 Assay Cert.

1 Copy of lease agreement.

Docket No. B-ND-4807
Date Auth. for Exam. Rec'd. Jan. 23, 1943
Date of Exam, Incl. Feb. 24-25, 1943
Date of Report. March 11, 1943

1. Name and Address of Applicant.

Name: W. F. Kime
Address: Payson, Arizona

Correspondent: Same

2 Character of Project
Development of gold-silver-copper deposit.

3 Location of Mine
The mine is located on unsurveyed ground in the Tonto National Forest Reserve in Gila County, Arizona. The district is known as the Mogatzal Mining District. Smelters at Clarkdale and ~~Jasper~~ Miami, Arizona are 86 miles and 80 miles distant by road respectively. There are no closer rail points. The roads to the smelters are ~~good~~ ~~pass thru rugged mountain~~ state and county highways, mostly paved, which pass thru rugged mountaneous region. The last 7 miles to the mine after leaving the county highway is very rough and rocky and in places only barely passable when it

crosses the beds of Rye and tributary creeks. This road is accessible at all seasons.

4 Applicant

The applicant is a middle-aged man. He was formerly a rancher and mining operator in California and Arizona. His mining experience has been quite limited and until the present enterprise was not concerned with the actual ~~operation or development and~~ development or operation of a mine. He is not qualified by technical or practical experience, or temperament, to competently handle a mine development program.

5 Loan Requested

~~Applicant requests a loan in the amount of $20,000 to be used for equipping and developing the mine, making changes in the and additions in the mill, plant, and housing buildings, housing accommodations; and for working capital to provide working capital.~~ $20,000

6. Description of Project

A. General Features

1. There are no mine workings, mill etc which are not confined within the applicant's ownership.

2. The proposed project would comply with State compensation and safety-first statutes.

3. There are no apparent legal discrepancies in the project.

4. There are no impeded right-of way facilities.

5. There is no liklihood of surface or sub-surface trespass.

B. Existing Development

1 The mine is opened by Tunnels and shafts

a. The accompanying sketches of the workings are made from compass and tape surveys. The claim ~~claim and mine map presented by the applicant is reasonable were found to be reasonably correct~~ map presented by the applicant was checked in its central portion and found to be essentially correct.

b. Samples were cut with pick and mail and collected on canvas or, in the raise and shaft, in a box.

c. The major part of the workings were accessible and in good condition. The top of the main raise was inaccessible and two shafts were

partially filled with water, as hereinafter described.

d. General features of deposit etc.

The property lies ~~of~~ on the lower eastern edge the northern portion of the Mazatzal mountains. Locally the eastern face and crest of the mountains is composed of a thick series ~~formation~~ ~~series~~ of quartzite beds ~~with~~ contain occasional thin beds of conglomerate which rises in a cliff many hundreds of feet high above the rocky slopes and drainage gulches of the lower mountain area. The rocky stream beds are strewn with blocks and boulders of this material. The quartzite which is deep brownish red in color ~~thin~~ is fine to medium grained and thinly stratified ~~and shows~~ with frequent cross bedding. ~~The quartzite beds~~. The basal slope material is a complex of gneiss and schist cut by occasional ~~thin~~ narrow quartz veins. The vein upon which the principal ~~development~~ work at the subject property has been done occurs in a chloritic schist ~~is a~~ and is a persistent fissure ~~in a chloritic schist~~ extending ~~through~~ the length of the claims. The vein crops ~~is~~ generally ~~characterized~~ as a hard reef ~~like cropping~~ of ~~a~~ quartz and ~~hard~~ silicified country rock. ~~The vein~~ Strike of the vein is approximately North-South and it stands vertically or dips slightly toward the east. A ~~little~~ small amount of work has been done on a parallel quartz stringer about a thousand feet south east of the main workings

and several shoings ~~of copper stains~~ copper stained has been prospected in narrow fracture zones ~~in~~ at other places on the property. Following is a description of the workings and the sampling.

The main vein is developed by a crosscut tunnel driven approximately 200 feet westerly into a steep hillside. At 160 feet the vein is cut and drifts have been extended some 60 feet north and 265 feet south on it with some exploratory development ~~with~~ in a westerly direction near the ~~south~~ end of the south drift. A raise on the vein ~~connects with the surface~~ from the ~~intersection of~~ drift at the crosscut ~~with the vein~~ and on the tunnel level connects with the surface 88 feet above and a little stoping has been been down at the top and bottom of the raise. The vein thruout the length of the tunnel level drifts ~~is a~~ is a well defined fracture filled with qtz and silicified wall rock accompanied ~~by~~ by a thin to ~~placed by a~~ to broad non stained gouge seams. The vein varies ~~from~~ in width from a few ~~inches of quartz and gouge to~~ inches over 3 feet ~~in width~~. In the ~~south~~ north ~~end~~ drift the walls of ~~averages about~~ the fissure are firm and smooth and the vein material is ~~practically~~ mostly a ~~hard~~ fractured vitreous to ~~that~~ milky quartz with a thin seam of gouge on each wall. It contains ~~an~~ occasional small spots of bornite and malachite and the walls show

in places a small amount of encrustation ~~by~~ with copper sulphate. The vein material here obviously did not contain enough copper to be classed as copper ore but because of the applicant's insistence that copper content was "several per cent with $8 to $14 in gold" ~~the vein at this place~~ the vein was sampled at intervals in the drift and the raise above it. ~~Samples~~ assays of samples Nos. 1 to 7 indicate several dollars value in gold per ton (No. 1 at $20.65 is considerably above the average) and around an ounce of silver. Copper content which is below 1.0% is not important.

The north drift ~~with a gouge seam~~ was driven in the ~~the~~ footwall against ~~of~~ the vein ~~which throughout the~~ This wall throughout the drift is a definite smooth plane. ~~and~~ The vein is broken into occasionally and shows severally thin planes of alternating quartz and silicified wall rock separated by seams of iron stained clay the whole width of fracturing seldom being more than 30". ~~in width~~. ~~The~~ vein shows no copper ~~showing~~ other than occasional faint green stains and apparently gold content was ~~not~~ small judging from the fact that no further work was done ~~when the~~ at the time the property was considered to be a gold mine. ~~Near the~~ About 60 north from the end of the drift a ~~short~~ crosscut was extended into the west wall where a little copper staining was seen in fractures in the ~~a~~ dark schist wall rock. The applicant claimed the presence of material

running several per cent copper ~~in the~~ at this place. Samples Nos 8 and 9 show insignificant copper content with no other values. ~~Near the~~

Near the end of drift a crosscut was driven westerly some 35 feet. ~~Several thin fractures parallelling the main fracture but with~~ of variable dips and strike were cut. ~~and the~~ The applicant claimed the presence of a fault here and presented an assay of 5.4% copper with unimportant amounts of gold and silver. A careful examination of the working place did not disclose the presence of a fault but rather the occurrence of a number of fracture seams of divergent ~~st~~ strikes and dips. No copper was visible and upon questioning it developed that the applicant did not take the sample himself and was not sure of its location, admitting that it might have been taken "along a seam". No copper bearing seam could be found however and nothing ~~the~~ worth sampling was seen.

Sample No 10 was taken by shoulling from a dump of select ~~quartz~~ vein material, mostly quartz, at the portal of the tunnel. The dump contained approximately 50 tons. The assay of this material shows ~~small~~ low gold value and practically no copper.

Sample No 10 was taken by shoulling from a select ~~the~~ dump at the portal of the tunnel. The dump contains about 50 tons of mostly quartz material.

On the surface a short distance south of the face of the south drift and about 80 feet west from it a ~~shallow~~ shaft was sunk and a small amount of ~~some~~ open cut work done on a narrow ~~fracture~~ shear zone in the schist. The collar of the shaft is approximately 110 feet above the end of the drift. The fracture seam strikes N 17° E and dips about 50° southeast.

The shaft is said to be 45 feet deep but was filled with mud and water to within 17 feet of the surface. This ~~fracture zone~~ shear zone is what the applicant calls the "copper vein" and copper shaft. A sample was cut in the northwest wall of the shaft some 8 feet below the collar. The material was fractured shale containing parallel seams of clay ~~parallel to the~~ and showing occasional faint copper stain. The sample assayed:

Sample	Width	Oz Au	Oz Ag	% Cu
No 11	32"	.03	.2	.55

The material in the wall opposite sample No 11 contained no copper stain.

Sample No 12 was cut across the ~~fracture~~ shear zone where it is exposed for a width of 6" in a ~~trench~~ cut on the hillside some 40 feet southwest from the ~~above described~~ shaft. The sample assayed:

Sample	Width	Oz Au	Oz Ag	% Cu
No. 12	6"	Tr	.8	1.80

About 1200 feet southwest, and over the hill, from the above described shaft a vertical shaft has been sunk upon another shear zone in ~~the~~ schist the shaft is said to be 55 feet deep but was filled with water to within 26 ft. of the collar. The shear zone at the surface contains a narrow width of oxidized copper mineralization in a small bluff above the shaft collar. This same mineralization extends down into the shaft and a sample was

No 12 See applicant's claim map for location of surface workings and samples (in red crayon).

cut across it a depth of 10 feet below the collar of the shaft. The sample assayed:

Sample	Width	oz Au	oz Ag	% Cu
No 13	16"	.02	2.8	5.33

The copper minerals were malachite, chalcopyrite, bornite and covellite (?) occurring with pyrite in a gangue of quartz and silicified country rock ~~with~~ some iron stained gouge material.

The opposite side of the shaft ~~&~~ showed practically no mineralization and mineralization at the surface did not extend more than a few feet in the face of the bluff on either side of the shaft ~~in the face of the bluff~~

Samples No 14 and No 15 were ~~cut~~ taken in cuts on the cropping above the ~~E~~ north end of the main tunnel workings. The assays show nothing of importance ~~here~~.

Sample No 16 was cut across a parallel vein on the Blue Bell No 2 claim some 1200 feet south east of the main tunnel workings. ~~Several cuts,~~ ~~and~~ A tunnel and trench and several cuts expose a quartz vein at this point. The sample showed low gold ~~content~~ and insignificant copper content.

Other scattered openings on the property ~~showed~~ contained nothing of interest.

Proposed Development

The applicant proposes to equip and develop the mine, make changes and additions to the milling plant, and provide housing and working capital. ~~His~~ The proposed development would explore the south extension of the main vein on the tunnel level.

Equipment

The applicant has constructed a small mill on the property. He has designed and built a crusher, ~~the~~ two mills, float cells, dewatering ~~and~~ etc. The "ball mills" are each made up of 10 - 5" balls travelling in a horizontal race ~~and~~ surmounted by a heavy cast iron cover and driven by a quarter-turn belt from an automobile engine. Some of the contrivances in the plant are quite ingenious but the whole lay-out is extremely impractical. ~~The mill has operated intermittently on a~~ A ~~small~~ small amount of material (a few tons) has been put through the mill during short intermittent operations. The applicant claims to have made three shipments of concentrates during the past several months ~~recently~~ but did not recall the amount nor the contents.

Comments of Supervising Engineer

The property is essentially an alleged gold mine. The sampling and field work did not disclose any evidence which would justify the belief that development of the ~~property~~ property would produce substantial amounts of copper.

A development loan is not recommended.