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03/20/90

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: BRIDAL VEIL MINES

ALTERNATE NAMES:

GRAND CANYON GOLD & PLATINUM
JOHNSON MINE
PYRAMID CLAIM
IRON MASK CLAIM
ELANIA
BLENDE
NORTHERN AZ LEAD & ZINC MNG.
HAVASU LEAD & ZINC
SELIGMAN CLAIM
CATARACT CLAIM
NORTHERN AZ. MNG. & ELEC. PWR.

COCONINO COUNTY MILS NUMBER: 227

LOCATION: TOWNSHIP 33 N RANGE 4 W SECTION 10 QUARTER C
LATITUDE: N 36DEG 15MIN 30SEC LONGITUDE: W 112DEG 42MIN 20SEC
TOPO MAP NAME: KANAB POINT - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

LEAD SULFIDE
SILVER
ZINC SULFIDE
VANADIUM

BIBLIOGRAPHY:

ADMMR BRIDAL VEIL MINE FILE
ALLEND M.A. ET AL, AZBM BULL 115, P 11
ADMMR FLAGG VANADIUM RPT. VOL. III
ADMMR "U" FILE
MOORE, R., AZBM BULL 180, P 190
ADMMR JOHNSON LEAD MINE COLVO FILE

LDAL VEIL MINES

COCONINO COUNTY

BM Bull. 115 p. 11

ook ~~▼~~-III - A. L. Flagg vanadium reports

See: Eagle-Picher "B" Confidential files

Budal Clair (Mined Ore)

REPORT

OF

Northern Arizona Lead & Zinc Mining Company

The Northern Arizona Lead & Zinc Mining Company submits for your careful consideration a report by Mr. W. W. Elliott on its property. We wish to impress upon you the fact that we are not asking for money to hunt for ore, but you can readily see from his report that there is more than sufficient ore already opened up to make the investment safe.

The company is incorporated under the laws of Arizona for one million (1,000,000) shares. The mines have been transferred to the company by Mr. W. I. Johnson for one-half of the stock, leaving in the treasury five hundred thousand (500,000) shares. Mr. W. I. Johnson has agreed that none of the stock paid to him for the property shall receive any proceeds from the mines until the money paid for stock to equip the property with a twenty-ton mill has been repaid to the purchasers, leaving to them their stock as a bonus for such assistance.

As the report of Mr. W. W. Elliott deals almost entirely with the Vanadium contents of the ore, I will say from all the data I have on the cost of production, transportation charges and the selling price of Vanadium as a concentrate, that we can in working 1% Vanadium ore reasonably expect to net \$25.00 to \$30.00 on each ton of ore milled, not considering the silver and lead values in the ore, and when we have ore that will warrant a plant to reduce the ores to Ferro Vanadium we will net more than that amount on one-half of 1% ore, as we will save the lead and silver values, besides getting a much higher price for the Vanadium. The increase cost of such a plant is not very great.

I will not at the present go into details of the lead and zinc values in the mines; will only say that the opinion of those who have seen the mines is that the work done and the outcrop in many places warrant them in thinking there are at least a million (1,000,000) tons of ore that with the cheap water power and the large bodies of ore that can be mined at a very small cost, and the working of the zinc by the electrolytic process, will make this vast amount of ore a commercial success.

TERMS

The price of the stock is twenty-five (25c) cents per share, and will be sold on the installment plan of one quarter ($\frac{1}{4}$) in cash, balance in three (3) monthly payments. Where parties desire more than five hundred (\$500.00) dollars worth a discount will be made for cash.

Asking your assistance and in return promising you that every effort will be made to promote your best interest by the employment of competent men in the mining and milling processes, we also state that your stock is on par with all other stock, that those who own stock in the company have either paid cash or rendered actual services for same, and that there has not been any stock given away for promotion purposes.

Respectfully submitted,

NORTHERN ARIZONA LEAD & ZINC MINING COMPANY,

By W. I. JOHNSON, President.

Prescott, Arizona, March 14, 1918.

REPORT

OF THE

Northern Arizona Lead & Zinc Mining Company's Property

This property is located in Cataract Canyon, forty-five miles northwest of Grand Canyon Station, the terminal of the Grand Canyon Railroad, in Coconino County, Arizona, just off the Supai Indian Reservation.

The property is reached by a reasonably good wagon road having no long or heavy grades in a distance of thirty-three miles to the rim of the Canyon. The balance of the distance, fourteen miles, is made over a trail, the first two miles of which are very steep and crooked—the balance being an exceedingly good trail. In fact there was at one time a reasonably good wagon road here.

It is possible, however, to shorten this distance by leaving the Grand Canyon Railroad at Apex Station and carrying it to a point on the rim of the Canyon two miles above the property; this road would be approximately thirty-four miles in length, and can be built at a very nominal expense. The balance of the distance, two miles to millsite, would then be reached by tram line, which would have a fall of 2500 feet in that distance, this route being very practical.

The property consists of five full mining claims, 1500 x 600 feet, and a mill site, and is not patented, all being held under the mining laws of the United States and State of Arizona, title work for 1917 having been done.

The claims are located on both sides of the Canyon, running parallel with it.

The Canyon at this point being from 100 to 300 feet in width, comparatively level in cross section, and having a fall of approximately four feet to the 100 feet between Bridal Veil Falls and Mooney's Falls, a distance of three-fourths of a mile. All of the claims being located below Bridal Veil Falls, but including it, and extending down the Canyon to a point below Mooney's Falls.

The walls of the Canyon adjacent to this ground rise in most instances practically perpendicular to a height of 300 to 500 feet to the first bench, and the rim is reached by a series of benches, in most places it being approximately 2500 feet above the bed of Canyon.

WATER POWER

On this ground are located Bridal Veil Falls, having a sheer drop of 100 feet to the level of the Canyon below; three-fourths of a mile below these Falls are Mooney's Falls, having a perpendicular drop of 196 feet, the intervening distance between the two Falls having an average fall of four feet to the 100 feet, the mean average flow of the stream being 70 second feet or 4200 feet per minute.

HISTORY

This property was located twenty-five or twenty-six years ago, and has been worked more or less by chloriders ever since for its lead and silver values, and it is claimed by those who are in a position to know, that there has been shipped between 100 and 150 tons of such ore, the values of which were from 65% to 72% lead and 35 to 60 ounces of silver. All this ore was obtained by hand sorting, and owing to the character of the ore, it was not possible to recover more than 20% of the ore mined, owing to the fact that it contains besides the galena (which in many portions of the ground is too finely divided to permit hand sorting), a considerable amount of lead carbonates.

Recently it was discovered that the ore also contained more or less vanadium, which was practically an unknown metal to the average prospector and miner in those days. During the many years that this

property was worked by the chloriders, there has been done approximately 1100 feet of development work, in the form of tunnels, drifts and rooms, all of which are in good shape and open for investigation, and from which was produced several thousand tons of lower grade ore than was shipped, and which also carried vanadium, which today is of highly commercial value. Unfortunately some six or seven years ago a terrific flood carried all of these dumps away, except at one point where there still remains several hundred tons.

FORMATION

At this point, which is identical with that found in the Grand Canyon of the Colorado River, only it has not been exposed down to the granite, being laid down in a bedded or "blanket" form, and consisting of silicious limestone along the bed of the Canyon rising approximately for a height of 200 feet, at a point 35 to 50 feet approximately in this limestone is found the ledge which carries the values on this property, it being 35 to 40 feet in thickness, and is distinctly defined as to its walls, lying practically level in all directions and containing more silica than in the other portions of the lime formations of this district. Above this limestone is found a belt of shale rocks, and above the red sandstone universally found in this section, this applies only to the first bench, lying from bed of Canyon up.

Holdings, as before stated, consist of five full mining claims, known as "Bridal Veil," "Seligman," "Pyramid," "Iron Mask" and "Cataract."

The "Bridal Veil" claim being the upper claim, and covers a portion of Bridal Veil Falls, and is located on west or south side of Canyon. On this claim there has been done approximately 450 feet of development work in the shape of tunnels, drifts, winzes and rooms. At one point tunnel has been driven back a distance of 250 feet at right angles with the face in the Canyon. From this tunnel numerous drifts have been run in various directions. At one point a winze has been sunk, said to be 20 odd feet deep, showing values to the bottom; there was no ladder, so could not get down. At several points in these workings the ore had been followed up a distance of 12 to 15 feet. At no point in these workings had either the foot or hanging wall been reached.

On the "Seligman" claim a similar amount of work has been done, and in a very like manner, only there being two adit tunnels on this ground about 50 feet apart.

The ore conditions are also practically the same as found on the Bridal Veil claim. This claim is located on the south side of the Canyon about 1500 feet west and south of Bridal Veil claim, and 750 feet west of present mill, which is on the mill site.

"Cataract" claim is located below "Seligman" claim and below Mooney's Falls, and the ledge is some 240 feet above the bed of Canyon at the point where the work has been done, and is reached by a ladder; as the ladder was out of commission, did not see these workings, so they have not been considered in the amount of development work done.

"Pyramid" claim lies opposite the "Seligman" claim. The development work here consists of several short tunnels and some short drifts. The ore shown in the claim contains a considerable amount of zinc—in fact predominant.

"Iron Mask" adjoins the "Pyramid" claim on the west. On this ground a tunnel has been driven in 125 feet with several short drifts. Here is found lead, zinc, silver and vanadium and considerable iron, and has a better showing for zinc than at any other point on the property.

Characteristics of ore depositions on this property are very similar to those found in all "blanket" veins in lime formations; that is, the values are not found continuous throughout the vein matter, but rather are found in lenses, chimneys and pockets, and resemble what the prospector calls "bug holes," and they vary in size from a few hundred pounds to several hundred tons, as has been demonstrated by the present development work done on this property. These lenses seem to run in all conceivable directions and are of very frequent occurrence, and are all highly oxidized in character, and when encountered, the ore is easily extracted, and the formation is such that little or no timber will be required in the working of the property, and the ore from all the property, except the "Cataract" claim, can be hauled by wagon or surface tram to the mill.

The mill site is located 300 feet below Bridal Veil Falls, and there has been an effort made to concentrate the ore in a very crude manner. A ditch has been taken out which carries 1200 feet of water per minute, and could be readily enlarged to twice its present capacity. This ditch leads to an eight foot over-shot water wheel, which drives a small set of rolls and 2 crude jigs. This ditch can be extended 130 feet where it is possible to put in an over-shot wheel 16 to 18 feet in diameter, or it is possible to put in 500 feet of pipe line from above Bridal Veil Falls and get 120 feet fall, or a pipe line carried from head of Supai Falls to below Mooney's Falls, a distance of one and one-half miles, giving a fall of approximately 750 feet, where not less than 3,000 h.p. can be developed.

Timber for fuel is found in the Canyon, but is limited in quantity. However, on the rim, two and one-half to three miles distant, there is an abundance of cedar and pinion pine suitable for stulls and such mining timbers as might be required.

Common labor may be obtained from among the Supai Indians at the rate of \$2.00 per day. Such supplies as vegetables, chickens and eggs may also be obtained from the Indians, who farm some 300 acres in a crude sort of way. Fresh fruits, such as peaches, apricots and apples, are also grown here.

I sampled the mine and tested the samples by panning and reserving a portion of all the samples for assay and further test purposes, which were turned over to W. I. Johnson, the principal owner of the property. These samples as yet have not been analyzed.

CONCLUSION

From my investigation of the underground workings of this property, from the samplings and panning of the ore, I am fully satisfied there is a sufficient tonnage of ore developed to justify the installation of not less than 20-ton concentration plant for the recovery of the vanadium and lead carbonates alone, say nothing of the galena ores, which are also available. Judging from pan tests ore should concentrate on an average five to ten tons into one, which will give concentrate high in vanadium, as all samples showed from 11½% to 7% vanadium plus the lead carbonate. In reaching this conclusion, all samples taken which showed galena were evaded, and only vanadium and lead carbonates were taken into consideration. If the ore was concentrated for the lead-silver alone, at the present prices I would consider it as a paying proposition when taking into consideration the low cost of mining and the exceedingly low cost of power, even though there will be an expensive transportation charge to the Railroad.

There also being a large prospective tonnage of zinc and lead ore in both the "Pyramid" and "Iron Mask" claims, I would strongly advise the installation of a small concentration plant as soon as possible in order to get the advantage of the high prices now being paid for all the various metals contained in this ore.

Taking into consideration the characteristics of the ore, and the transportation conditions, I recommend the following type of mill:

- One 6 x 9 Jaw Crusher;
- One set 10 x 14 Crushing Rolls;
- One 3 x 4 foot Ball Mill; and
- One three-compartment Hartz Jig.

All this machinery is to be sectionalized.

In the construction of this plant, the set of rolls and all the shafting, belting, pulleys, etc., now in the present mill, can be utilized. The present water ditch should be extended 130 feet and a new over-shot water wheel, not less than 16 feet in diameter and 36 inches wide, be built. Owing to the climatic conditions in the Canyon, this machinery need not be housed in, at least for the present. This type of plant should be put in running order at a cost of not to exceed \$4,000.00.

W. W. ELLIOTT.

Northern Arizona Lead and Zinc Mining Company

PRESCOTT, ARIZONA

To investors in mining stock we wish to present for your careful consideration and investigation the offer this company is making in order to raise money to ship concentrates.

That you may have some idea of the mines, I will give you a descriptive report as follows:

LOCATION

They are located in Cataract Canyon, Coconino County, Arizona, about forty miles from Grand Canyon Station on the Grand Canyon Railroad, over a comparatively level plateau. Road building would be an unimportant item as there are no grades, and malapai rock, the capping for the entire distance being a limestone.

GENERAL DESCRIPTION OF PROPERTY

The group of claims held by possessory right of location under United States and Arizona laws. Locations were made prior to the extension of the Grand Canyon National Monument over this area. They consist of five full mining claims of 20.66 acres each, and the entire minimum flow of Cataract Canyon, consisting of about seventy second feet with a fall of fourteen hundred feet in six miles. The water rights were also located before the extension of the Grand Canyon National Monument, and hence title is perfect. The water rights are vested in the Cataract Canyon Power Company.

ORE IN SIGHT AND ASSAY VALUES

Work consists of several tunnels, one being 285 feet in length with numerous crosscuts from 15 to 25 feet in length, all in ore, the ore bodies being metasomatic replacements in limestone of large size and regular area, and horizontal dimensions. Many of these bodies of metasomatic replacement zones show along the sides where Cataract Canyon has cut the formation vertically. In another place a tunnel over 125 feet in length with crosscuts and a 36-foot winze, all in ore except a few small limestone horses that were encountered in places. Other zones have from ten to fifteen feet of work, showing ores as replacement zones in the limestone. As to the quality of the ore, the same will run from 10 to 70% lead, with each 10% of lead carrying about six ounces of silver. This ratio seems to hold good at all places. There have been about 150 tons of ore shipped from these properties.

ZINC

Until electrolytic working of zinc with cheap power was a proven fact, I did not give much attention to the zones carrying zinc, although I believe that the bodies of zinc will prove with development, much larger than the bodies of lead.

ORE BLOCKED OUT

We wish to call your special attention to a block of ore 80 x 30 x 10 feet that will make about 2,000 tons of ore that will concentrate into 500 or 600 tons of concentrates that is now worth over \$120.00 per ton, and all cost of mining, transportation, etc., will not exceed \$50.00 per ton, and with a very small outlay, the cost can be reduced to \$40.00. In this block of ore we find some 70% lead that carries as high as 40 ozs. of silver, and good sized bodies of 40% ore carrying 20 ozs. of silver, and from numerous tests I am sure this ore is above 20% lead and 10 ozs. of silver.

From this small block of ore we can net more than \$25,000.00 besides there are much larger bodies of ore in other places run through, and some drifting done but not quite as high average values.

MACHINERY

We have a set of rolls and jigs on the property run by water power that will work 15 or 20 tons per day. We have been making some concentrates by screening and working the fine ore, from now on we will use the rolls as we have all necessary belts, shafts and pulleys at the hill top ready to take to the mines.

STOCK

A limited amount of the stock is offered at ten cents per share on installments if desired. One fourth down, balance in three monthly payments.

It is to be understood that the stock issued for the property is not to share in any dividends until the buyer of the stock, under the special agreement, has been reimbursed or any part of the money received from the sale of stock is to be used to pay for the mines.

There has not been any gift stock to anyone, except a few shares to directors for services, and there will not be any except possibly 10,000 shares that may be given as a bonus on money loaned to the Company.

WATER POWER

The water rights are owned by the Cataract Canyon Power Company, W. I. Johnson, who is now the principal owner in the Mining Company also owns more than 80% of the issued stock of the Power Company. As Mr. Johnson is willing to turn his power stock over to the mining company on some equitable basis for mining stock, other owners may be willing to do the same, or when the company has available funds they can buy the power stock if there should be any of the owners unwilling to take mining stock.

It is not necessary at this time to go into details about the power, but there is 8000 or 9000 horsepower. Mooney's Falls, which is on one of the mining claims, alone will generate 1,400 H. P. at the dryest time of the year.

OUT OF THE PROSPECT STATE

Considering the amount of ore blocked out, and the thousands of tons of ore that has tunnels through it, and also the agreement given by Mr. Johnson in regard to the stock he sold the property for. This should not be considered as a prospect, but a mathematical problem. The ore can be measured, and the number of tons to make one of concentrates and the value of that ton can be ascertained. Then the cost of producing and all other charges, can be known, the net results can be determined. Therefore, you are not being asked to put your money in a gamble, but to work and develop known ore bodies, and to commence shipping at once as we have some concentrates now ready, and thousands of tons of ore to continue shipping.

IMPROVEMENTS

As soon as the Company has funds to commence shipping and put a force of miners to opening the known ore bodies in a number of places, we will then get a report by a Mining Engineer of National reputation, and list the stock on some exchange.

SPECIAL AGREEMENT

In order to commence shipping at once we will enter into an agreement that will be greatly to the advantage of those who avail themselves of the opportunity.

If you desire further information, W. I. Johnson will be in Prescott for a few days, and will give you all information that he can.

FUTURE PROSPECTS

In conclusion I will say that the showing of ore in many places where the layers have cut through the horizontal deposits warrants the company in believing that we have millions of tons of ore—although not more than 20,000 tons is opened up.

The history of replacements in limestone as determined at Bisbee, Leadville, the Missouri Mines, and similar deposits in those and other places, justify us to a great extent in such conclusion, as our ore body is in many places 30 ft. thick, and extends for a great distance.

Respectfully submitted,

NORTHERN ARIZONA LEAD AND ZINC MINING COMPANY,

By W. I. JOHNSON,

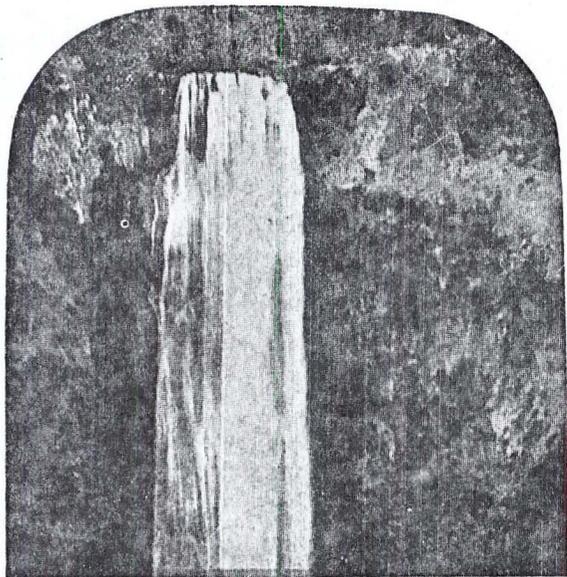
General Manager.

Prescott *Arizona*
1910

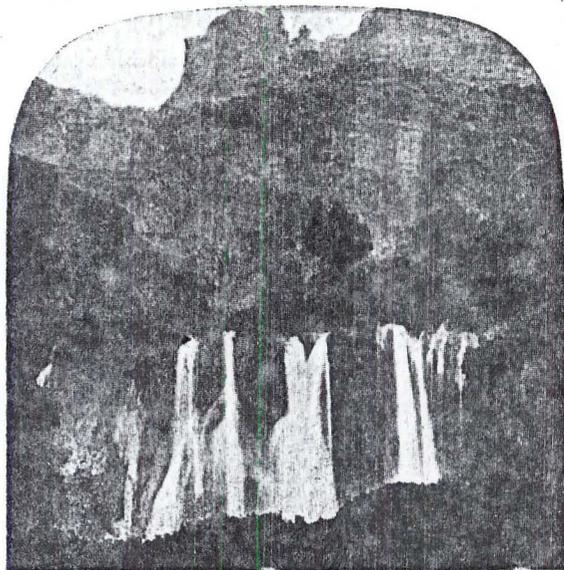
**Northern
Arizona
Lead &
Zinc Mining
Corporation**

●

Prescott, Arizona



Mooney's Falls, Cataract Canyon—196 Feet



**Long Distance View Bridal Veil Falls,
Cataract Canyon—140 Feet**

NORTHERN ARIZONA LEAD AND ZINC MINING CORPORATION

BB

Before going into any description of property we will explain our plan and give our reason for stating the investment is safe. Although there is a law suit for \$8,011.00 filed against the company it is our opinion the amount of claim against the company will be reduced several thousand dollars by the offsets the company claims to have.

AMOUNT

To raise \$3,000.00 to install 1800 feet of aerial tram that will cost about \$1,200.00. We are offered a small used stamp mill (610 lbs. stamps) for \$150.00, a crusher \$150.00, concentrator \$50.00, water wheel \$35.00, 250 feet water pipe and freight \$225.00—totaling \$1,960.00 for mill and tram.

ONLY TRAM NEEDED

We have about 100 tons of Lead-Silver ore sorted ready to ship, some of it now sacked. At the present price of Lead-Silver this ore will sell to the smelter for \$56.00 per ton after the smelter's reductions. When the tram is installed it will cost \$23.00 per ton to deliver this ore to El Paso and pay for the smelting on the 100 tons mining has been paid for. This will leave a profit of \$3,300.00 on the ore now mined, and it is our estimate that several hundred tons of the same grade of ore can be sorted from the 3,000 tons now practically blocked out where this ore was mined and sorted.

OUR OFFER

We will allow the investors to appoint a reliable person to receive all money paid in also all money for ore shipped and to pay the same out under the terms in this circular. All net

proceeds to be paid to the parties furnishing money to install tram and machinery, until they have been returned \$2.00 for each dollar advanced to the company. Under the offer to raise \$3,000.00, in addition, W. I. Johnson will give 400 shares of stock for each \$100.00 furnished the company, the stock will be from individual stock owned by W. I. Johnson.

RIGHT TO SHIP ORE

We will have nine months or longer to ship ore before the execution could be had and before that time we can pay you the amount agreed upon, and sufficient money earned to pay the amount the company owes the Plaintiff in the law suit.

STOCK IN ESCROW

W. I. Johnson has placed in the Guarantee Title & Trust Co., of Prescott, Arizona, 500,000 shares of his individual stock as a guarantee to do all that he has agreed to do. He agrees that the corporation will pay you at least 12½c on each share given to you for your assistance for a period of five years. You are not limited to the 12½c per share—you will be paid all the company earns above that amount—nor are you limited to a period of five years to receive your prorate of the earnings of the company. After the five years guarantee has expired the guarantee is to insure that you will be paid at least the amount agreed to be returned to you and 12½c for a period of five years. This reservation is made that if the company sells the property before all payments are made, you will be limited a return of \$2.00 for each \$1.00 paid in and any dividend that has been paid at the time of the sale, while it is not the intention to sell—this reservation protects you as well as the company.

TERMS OF PAYMENT

Ten per cent cash—the balance in six monthly payments. If the payments are not made as agreed upon, you are to forfeit all except the actual amount you have paid into the company.

MILL AND TRAM

A reasonable estimate with the small mill and the set of rolls we now have on the prop-

erty, we can work 15 tons of the Lead-Silver ore. This ore will concentrate three into one, with the extra cost of mining, the cost will be on each ton of concentrates \$33.00., mined, shipped and smelted, as the concentrates are reasonably worth \$56.00, this will leave a profit of \$23.00 on each ton of concentrates, making a profit of \$115.00 on the five tons shipped each day. This is equal to \$7.00 per ton on the 3,000 tons now practically blocked out in one place in the Bridal Veil Mine. It is not intended to convey the idea that 3,000 tons mentioned is all the ore in the mines, in fact we have more than 25,000 tons opened up by tunnels, cross cuts and winzes, that we believe will net more than \$7.00 per ton when we are able to work the ores for both the Lead-Silver and Vanadium ores.

GENERAL DESCRIPTION OF PROPERTY

The group of claims was located prior to the extension of the Grand Canyon National Monument. Over the area the group consists of 5 mining claims and mill site, the minimum flow of Cataract creek that runs through the property is 72 second feet. Bridal Veil Falls is 120 ft., Mooney Falls is 196 feet. Over the bluff at Mooney's Falls is the location of the power plant, on Cataract Mining Claim.

AMOUNT OF WORK

There is more than 1,500 feet work done upon the group, this work opened up many thousand tons of Lead-Silver and Vanadium ore, on account of the high price of Vanadium and the immense amount of Vanadium oxide that assays from one to six per cent V205. We consider the Vanadium one of our most valuable assets. We have a report by a mining engineer that there developed in the Seligman mined 600 tons of 6.11% of V205, and it is reasonable to expect this ore to continue for an indefinite distance as the dimensions are very large. Neither the foot wall or hanging wall has been cut. We expect by mixing the one per cent ore with higher grade to make an average of ore that will work 2 per cent. On 2 per cent ore when concentrated and leached as was done by government experts on the same character of ore at Good Springs, Ne-

vada, we estimate from that report, making all allowance for the extra cost of acids and other expense, that 2 per cent ore will net \$18.00 per ton. In that test the acids for four tons of concentrates cost \$188.00. Instead of estimating 80 per cent V205 at \$2.00 per pound we estimated the price of \$1.25 per pound.

TRANSPORTATION

This has been one of the disadvantages of the property but with the installation of the 1800 foot tram this will eliminate the greater part of the cost of transportation. We will have one and one-fourth miles to pack the ore instead of ten miles over a steep trail as was formerly done. Later we will extend the tram to the millsite.

WATER POWER

There is 72 second feet of water at the minimum floor of Cataract Creek. The location of the water rights was made before the Grand Canyon or National Park was created. When the park was extended over this area, the government denied the right to cross the park with a flume, but admitted we have the right to all water needed for the mines to be used on the recognized claims. We had the water rights under option. F. G. Baum of San Francisco for \$100,000.00. My understanding is Mr. Baum represented the Pacific Gas & Electric Company, also the Arizona Power has examined the power rights and stated they would be willing to pay \$100,000.00 if a permit could be had from the government.

WHY PRICE OF \$50,000.00

After the failure of the Prescott State Bank, we gave a mortgage to get money to work the property and most of the money was spent in equipment. Then the depression came and the price of Lead-Silver was so low we could not afford to pack the ore over the ten mile trail. We gave the government an option to buy the mines at \$50,000.00. The government sent the engineers who were eleven days making the examination and from the report the secretary of the interior said the \$50,000.00 was very reasonable. Mr. Douglas, then director of the budget opposed the bill until the budget was

company until this agreement is fully complied with. W. I. Johnson the owner of 85% of stock now issued will give those putting up money to get started the right to elect the Secretary and Treasurer and also Directors.

Asking your cooperation which will be to our mutual benefit.

Respectfully submitted,

W. I. JOHNSON, President.
NORTHERN ARIZONA LEAD
& ZINC MINING CORP,

Box 804
Prescott, Arizona.

DEPARTMENT OF MINERAL RESOURCES

REPORT TO OPA ON ACTIVE MINING PROJECT

Date Apr 24 - 1945
 Name of Mine Havasine Lead & Zinc
 Owner or Operator Havasine Lead & Zinc Co
 Address Superior via Grand Canyon
 Mine Location Havasine Canyon

Filing Information

File System.....
 File No.....
 This chart to be used for gallons of gasoline required per month.

PRESENT OPERATIONS: (check X)

Production ; Development ; Financing.....; Sale of mine.....;
 Experimental (sampling).....; Owner's occasional trip.....;
 Other (specify).....

PRODUCTION: Past and Future.

Tons

Approx. tons last 3 months 40
 Approx. present rate per 3 months
 Anticipated rate next 3 months
 If in distant future check (X) here

EQUIPMENT OPERATED:

Type	Quantity or Horse Power	Miles or Hours Per Month	Gallons Required Per Month
Personal Cars	.....	.....	.....
Light or Service Trucks	.....	.....	.....
Ore Hauling Trucks	.....	.....	.....
Compressors	25	} 425	1066
Other Mine or Mill Eqpt.	16		

PRODUCT PRODUCED OR CONTEMPLATED: Name metals or minerals.

Lead + zinc ores + concentrates

REMARKS:

This property has been working 3 yrs
and has shipped ore in 1943-1944-1945
Approved

ARIZONA DEPARTMENT OF MINERAL RESOURCES

By Ab. Mabeke
 State Engineer - D. G. M. R

DEPARTMENT OF MINERAL RESOURCES

REPORT TO OPA ON ACTIVE MINING PROJECT

Date..... 1/13/45
 Name of Mine..... Huachuca
 Owner or Operator..... J. M. McKinley
 Address..... 26 N. 1st St. Phoenix
 Mine Location..... Grand Canyon

Filing Information

File System.....
 File No.....
 This chart to be used for gallons of gasoline required per month.

PRESENT OPERATIONS: (check X)

Production.....; Development.....; Financing.....; Sale of mine.....;
 Experimental (sampling).....; Owner's occasional trip.....;
 Other (specify).....

PRODUCTION: Past and Future.

Tons

Approx. tons last 3 months
 Approx. present rate per 3 months
 Anticipated rate next 3 months
 If in distant future check (X) here

EQUIPMENT OPERATED:

Type	Quantity or Horse Power	Miles or Hours Per Month	Gallons Required Per Month
Personal Cars	<u>4 Buick</u>	<u>4000</u>	.....
Light or Service Trucks
Ore Hauling Trucks
Compressors
Other Mine or Mill Eqpt.

PRODUCT PRODUCED OR CONTEMPLATED: (Name metals or minerals.)

Lead

REMARKS:

This operation is proposed to put the mine into production. Production is dependent upon the structural nature of the ore. All material is to be recovered.

ARIZONA DEPARTMENT OF MINERAL RESOURCES

By..... [Signature]

January 19, 1943

Mr. James B. Girand
Ellis Building
Phoenix, Arizona

Dear Mr. Girand:

I received the enclosed memorandum from A. C. Nebeker which does not give you the information you want but is all that we are able to obtain.

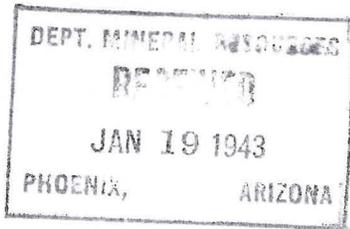
"Passing through Goodwin the other day, I tried to see Mr. Sanderson who had the above named company incorporated, to give him the message from Mr. Girand. It seems that Goodwin was used as a convenient post office address only. I found nobody over there connected with the Havasu Mining and Milling Company."

With best wishes and kindest regards, I am

Yours very truly,

J. S. Coupal
Director

JSC:BA



Jan 17th, 1943.

MEMO.;

SUBJECT: Havasu Mining and
Milling Company

To: J. S. Coupal

FROM: A. C. Nebeker

Passing through Goodwin the other day, I tried to see Mr Sanderson who had the above named company incorporated, to give him the message from Mr Girand.

convenient

It seems that Goodwin was used as a ~~XXXXXXXXXXXX~~ post office address only. I found nobody over there connected with the Havasu Mining and Milling Company.

A handwritten signature in cursive script, appearing to read "ACN".

13 March 1942

Mr. E. F. Schoeny,
Seligman,
Arizona.

My dear Mr. Schoeny:

I am enclosing herewith a copy of mine owner's report filed with this department covering the BRIDVAL VEIL, PYRAMID, IRON MASK, SELIGMAN AND CATARACTE GROUP located in the Cataract Mining District, Coconino County, Arizona.

I shall be glad to submit this report to anyone making inquiry for a property such as yours.

Assuring you of my desire to be helpful, and with best wishes, I am

Yours very truly,

Charles F. Willis
Chairman, Board of Governors

CFW-jrf
encl.

P. S. We shall be glad to have engineers report when copies are available.

CFW

*Bonar letter
given to Mr. Lewis*

June 27, 1942

Mr. L. B. Bonar;
Northern Arizona Lead & Zinc Company,
Seligman, Arizona.

Dear Mr. Bonar:

Many thanks for your letter of July 25th and I am forwarding the information to Mr. A. S. Lewis of Cave Creek asking him to contact you on your property.

Thanking you for your prompt attention, I am,

Very truly yours,

J. S. Coupal,
Director

JSC/EM

June 24, 1942

Mr. S. B. Boner, Postmaster
Seligman, Arizona

Dear Mr. Boner:

Mr. Soule, one of the field engineers for the U. S. Bureau of Mines, called at our office for information on the Northern Arizona Lead and Zinc Mining Company property, which we furnished him. Mr. Soule told me that you represent the owners and suggested that I contact you.

Mr. Alfred Strong Lewis of Cave Creek, Arizona is interested in finding a good vanadium property and obtaining a lease with option to buy under such terms that he could arrange with certain clients of his to put the property into production. Mr. Lewis has equipment and has contacts which might permit him getting quick action on the production of vanadium from your property.

Please advise me, or, if you wish, you could advise Mr. Lewis direct regarding this.

Very truly yours,

J. S. Coupal, Director

JSC:LP

CC: Mr. A. S. Lewis

XXXX XXXXXXXX

518 Title & Trust Bldg.

Card

April 3, 1942

Mr. S. B. Boner
Seligman, Arizona

Dear Mr. Boner:

Your letter of April 1 together with the report on the Northern Arizona Lead and Zinc Mining Company has been received and carefully noted. We will be glad to call this property to the attention of any inquiries that we have for lead-vanadium-silver properties.

I am enclosing a Mine Owner's Report form on which we file brief reports containing the high lights on various mining properties. The information contained in the report by Mr. L. T. McElvenny has all of the information desired, but I thought that you might prefer to set forth the high lights rather than leave it to us to do, as you may wish to call particular attention to certain points.

When you return this report completely filled out we will have copies made and will send one to you. Hoping we may be of assistance to you, I am

Yours very truly,

J. S. Coupal

JSC:LP

Enc.

7 January 1941

Mr. W. I. Johnson,
317 South Montezuma Street,
Prescott, Arizona.

My dear Mr. Johnson:

I thank you for your letter of December 30. I am returning herewith copy of report of Mr. L. T. McElvenny, Mining Engineer, on the Northern Arizona Lead and Zinc Mining Company, which you so kindly sent to us for our information. A copy of this report has been made and filed for future reference.

I am also enclosing herewith a blank mine owners report, which I should suggest that you fill out in detail and return to this office so that more condensed information may be available on your property to send to inquirers for properties such as yours.

Assuring you of my desire to be helpful, and with best wishes, I am

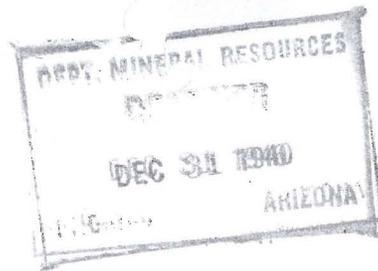
Yours very truly,

J. S. Coupal
Director

JSC-jrf
encls.

REGISTERED MAIL
RETURN RECEIPT REQUESTED

Prescott Arizona
December 30, 1940



J. S. Coupal
Arizona Mineral Resource Board
The Capitol
Phoenix Arizona

Dear Sirs:

I am enclosing a report by L. T. McElvenny. In reply to announcement that information is wanted on Vanadium, on page 6 the report mentions 5600 tons $1 \frac{3}{4}$ V2O5 in the Bridal Veil; in the Seligman 600 tons developed of 6.11 v2O5. There is at least 30,000 tons opened up that carry V2O5 bunches of very high grade.

I have a permit form party who held a Mortgage on the property to borrow from the R. F. C. \$ 7,000.00 . Am sending to the School of Mines at Tucson about 40# to have tested for flotation, also the best method of treating the ore.

The report and other data i am sending will give you an idea of what we have.

Will gladly give you any other information you need.

Yours truly
Northern Arizona Lead & Zinc


By W. Johnson

317 S. Montezuma St.
Prescott, Arizona

R

July 16, 1943

Mr. R. M. Sanderson
Havasu Lead and Zinc Mining Co.
Supai via Grand Canyon
Arizona

Dear Mr. Sanderson:

In reply to your letter regarding a market for high grade zinc ores, we have been notified by the Ozark Smelting and Mining Company of Coffeyville, Kansas, that they are users of both sulphides and carbonates containing zinc and lead, with a minimum of 35% combined zinc and lead.

The ore is not to contain in excess of a trace of copper, and not more than 5% lime. Prices range from 2-3/4¢ for the zinc and lead metal contained to 3-1/2¢ per pound. All prices are f.o.b. Coffeyville, Kansas. At the present time they can use a maximum of one car per week of carbonate ore, and two cars per week of the sulphide ore.

Trusting this information will be of service to you.

Very truly yours

J. S. Coupal, Director

GAB:ach

January 5, 1943

MEMORANDUM

SUBJECT: Havasu Mining and
Milling Company

TO: A. C. Nebeker

FROM: J. S. Coupal

Mr. James B. Girand, Ellis Building, Phoenix, has just called and is very much interested in the article on Page 4 of the December 30 issue of the Mining Journal entitled "Johnson Claims Acquired by San Francisco Group."

Mr. Girand did considerable work in this area and would like to know more about the people who are planning this operation. The article states that their headquarters are at Goodwin, Yavapai County, Arizona.

Would it be possible for you to contact the people mentioned if they are at Goodwin and let them know that Mr. Girand has a lot of data on the area and would be glad to contact them?

P. S. I note in your voucher for the last half of December that you were in the field only two days. I am aware that the holidays and the trip to Phoenix cut into your field work, but I do feel as though we cannot limit the services of an engineer at Prescott to merely serving the people who call and want to contact him in Prescott. There is a large area to be covered and a lot of information that can be forwarded to the office on various parts of your district.

Seligman, Ariz.,
March 9, 1942.

Department of Mineral Resources.
Attn. Mr. Charles F. Willis.
Phoenix, Ariz.

Dear Mr. Willis:

It is a pleasure to thank you for the
privilege of listing our lead and zinc property with
your department.

In filling out your inclosed Form I
referred directly to the Engineer's Report in order to
obtain details that were accurate.

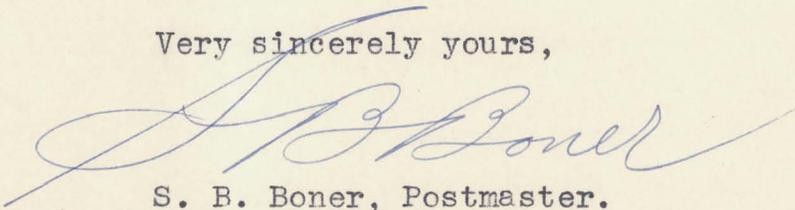
Mr. E. F. Schoeny is principle in an
action brought against the Northern Arizona Lead & Zinc,
the property was sold at Sheriff's Sale last October,
was bid in by him as principle and is now the property
of him and those who hold notes against the mine.

I am one of the large note holders and
also am one of the directors on the board of the present
owners.

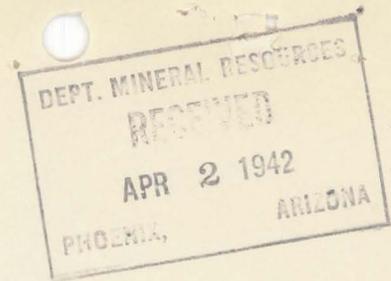
In the near future we will have copies
of the Engineer's Report made and at this time we will
send you a copy for your use in presenting the mines to
interested parties. The Report was made by Engineer
McElveny, of Prescott, Arizona in 1928.

Thanking you for your interest and extend-
ing you a cordial invitation to call on us any time you
are in Seligman,

Very sincerely yours,



S. B. Boner, Postmaster.



Seligman, Ariz.,
April 1, 1942.

Department of Mineral Resources.
Chas. F. Willis.
Phoenix, Ariz.

Dear Mr. Willis:

Inclosed is a copy of the Engineer's Report on the lead, vanadium and silver mines in Cataract Canyon at Supai, Arizona.

To those who desire complete and authentic data on the mines the report will be found very useful.

A property as large as this one and with a definite showing of shipping ore as is described in the report should be of particular interest to those who seeks mines of this nature.

With kindest personal regards,

Yours very truly,

Northern Arizona Lead and Zinc.

By 
On the Board of Directors.

ARIZONA DEPARTMENT OF MINERAL RESOURCES
MINERAL BUILDING, FAIRGROUNDS
PHOENIX, ARIZONA

February 24, 1958

To the Owner or Operator of the Arizona Mining Property named below:

HAVASU

(Property)

LEAD SILVER ZINC

(ore)

We have an old listing of the above property which we would like to have brought up to date.

Please fill out the enclosed Mine Owner's Report form with as complete detail as possible and attach copies of reports, maps, assay returns, shipment returns or other data which you have not sent us before and which might interest a prospective buyer in looking at the property.

Frank P. Knight

FRANK P. KNIGHT,
Director.

Enc: Mine Owner's Report

BOARD OF GOVERNORS:
CHARLES F. WILLIS, PHOENIX
CHAIRMAN
DR. N. H. MORRISON, PHOENIX
VICE-CHAIRMAN
SHELTON G. DOWELL, DOUGLAS
L. V. ROOT, KINGMAN
LOYDE C. EDMONSON, GLOBE

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
518 TITLE AND TRUST BUILDING
PHOENIX, ARIZONA

J. S. COUPAL, PHOENIX
DIRECTOR
W. J. GRAHAM, PHOENIX
ASSISTANT TO THE DIRECTOR
AND SECRETARY TO THE
BOARD OF GOVERNORS
FIELD OFFICES AT
GLOBE - KINGMAN
PRESCOTT - TUCSON



May 20, 1942

REPLY TO

We have submitted your Mine Owner's Report to Mr. G. Donald Emigh, who is representing the U. S. Vanadium Corporation, with present headquarters at the Pioneer Hotel, Tucson, Arizona as being one of the properties from which vanadium production may be obtained.

The following item will explain our reason for so doing:

The U. S. Vanadium Corporation has been designated by the Metals Reserve Company to increase the production of lead vanadates and they are working in the southwest.

G. Donald Emigh, Pioneer Hotel, Tucson, is their representative, and Arthur L. Flagg, 29 W. Holly Street, Phoenix, is their field manager.

They are seeking small vanadium properties and are ready to handle them on almost any kind of a deal except actually buying properties. They will put money into development, they will lease, they will build small mills, they will work out processes, they will co-operate with the man to develop his own property. They will pay premium prices for that which they get. They will do almost anything and everything designed to bring out increased vanadium production.

An office is going to be established in Tucson and we will let you know the address as soon as we get it. Any occurrences of lead vanadates should be promptly reported to either Mr. Emigh or Mr. Flagg, or anyone who has vanadium properties should be referred to them.

We would suggest that you contact these parties at once and if you can furnish any information in addition to that which occurs in your Mine Owner's Report on file with us that you do so at once. Please advise us of your action.

With best wishes and hoping you get your property into early production, I am

Yours very truly,

J. S. Coupal
J. S. Coupal,
Director

JSC:LP

BOARD OF GOVERNORS:
CHARLES F. WILLIS, PHOENIX
CHAIRMAN
DR. N. H. MORRISON, PHOENIX
VICE-CHAIRMAN
SHELTON G. DOWELL, DOUGLAS
L. V. ROOT, KINGMAN
LOYDE C. EDMONSON, GLOBE

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
518 TITLE AND TRUST BUILDING
PHOENIX, ARIZONA



May 20, 1942

S. COUPAL, PHOENIX
DIRECTOR

W. J. GRAHAM, PHOENIX
ASSISTANT TO THE DIRECTOR
AND SECRETARY TO THE
BOARD OF GOVERNORS

FIELD OFFICES AT
GLOBE - KINGMAN
PRESCOTT - TUCSON

REPLY TO

Northern Arizona Lead & Zinc Mg. Co.
Mr. W. J. Johnson
317 S. Montezuma
Prescott, Arizona

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With best wishes and hoping you get your property into early production, I am

Yours very truly,

J. S. Coupal
J. S. Coupal,
Director

JSC:LP

SAMPLES BY
R. M. SANDERSEN

N ^o	WIDTH	AU.	AG.	%Pb.	%Zn.
30	6.0'	.03	5.3	7.4	36.2
31	5.0	.08	-	8.0	38.4
32	2.0	.05	11.2	27.1	31.3
33	5.0	.05	14.8	44.9	24.1
34	6.0	.11	6.9	18.0	33.7
36	1.5	.07	16.7	34.1	21.2
39	3.0	Tr.	8.9	4.2	43.3
40	4.0	Tr.	3.1	3.6	39.3
41	5.0	Tr.	3.4	2.8	21.2

SAMPLES BY
BUREAU OF MINES

3067	Grab	Tr.	2.3	2.5	14.2
3068	5.0	Tr.	7.1	13.4	27.5
3069	4.8	Tr.	0.8	0.2	6.4

TRACED FROM MAP
BY:- R. M. SANDERSEN

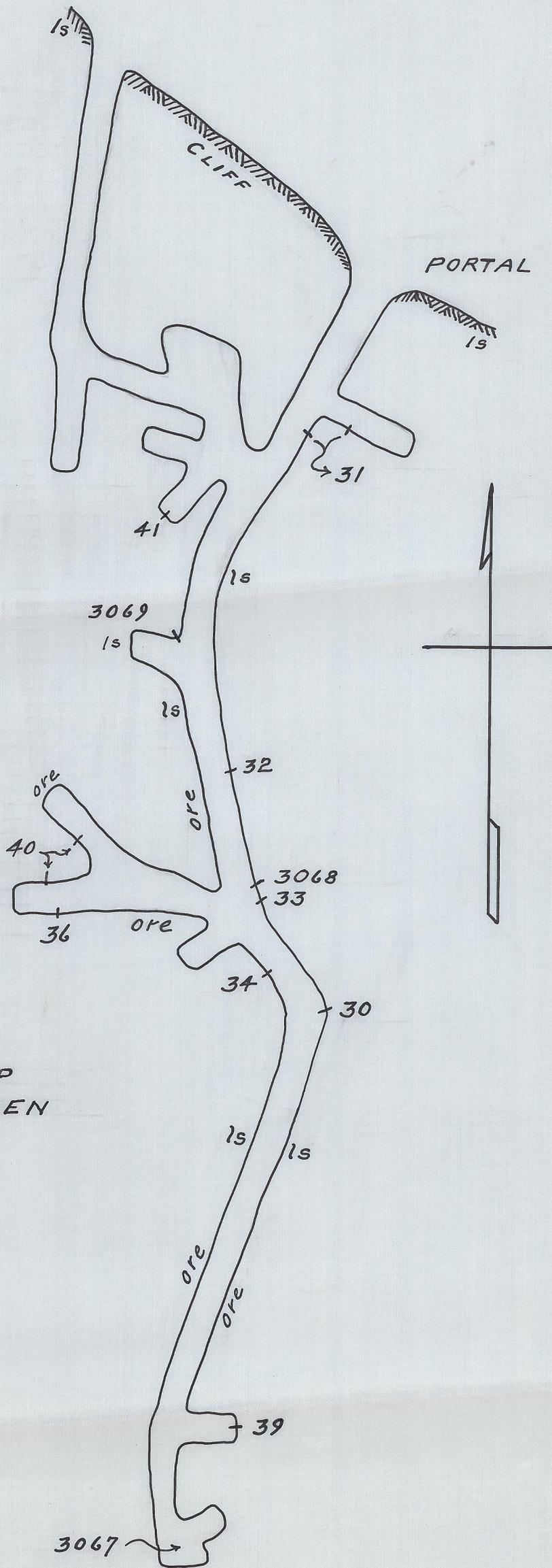
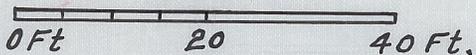
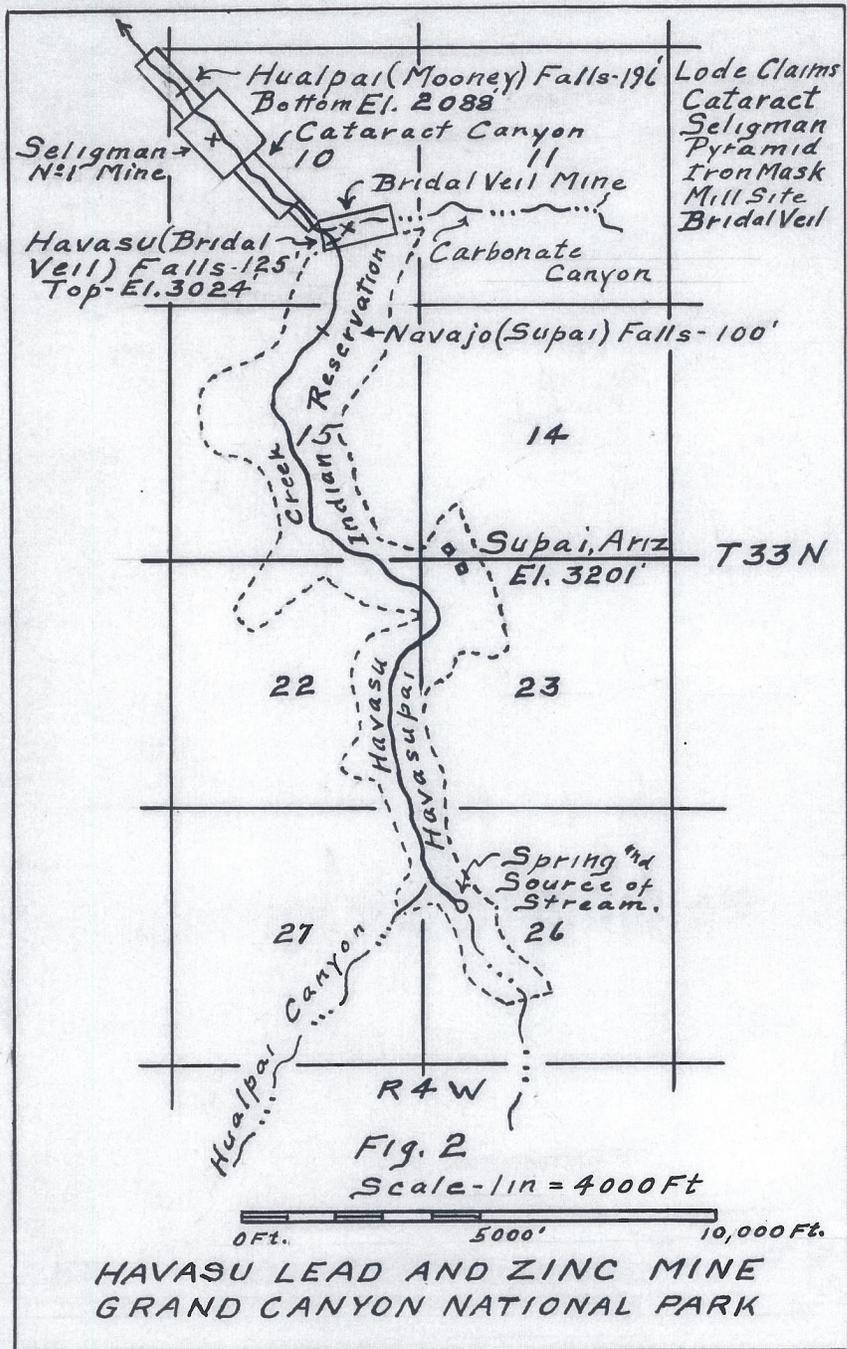


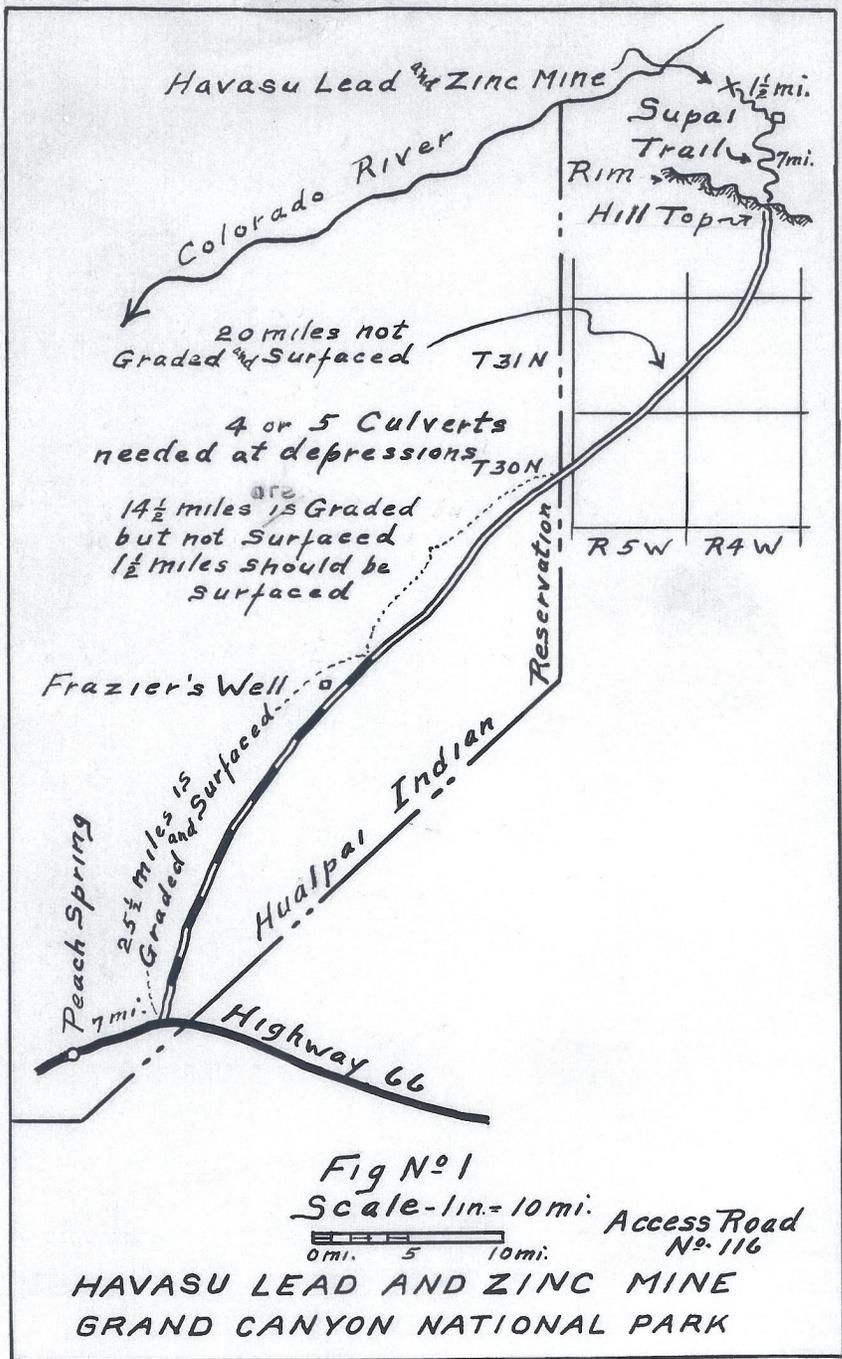
FIG. 5
SCALE



PLAN OF TUNNEL - SELIGMAN N^o 1 MINE.



15001



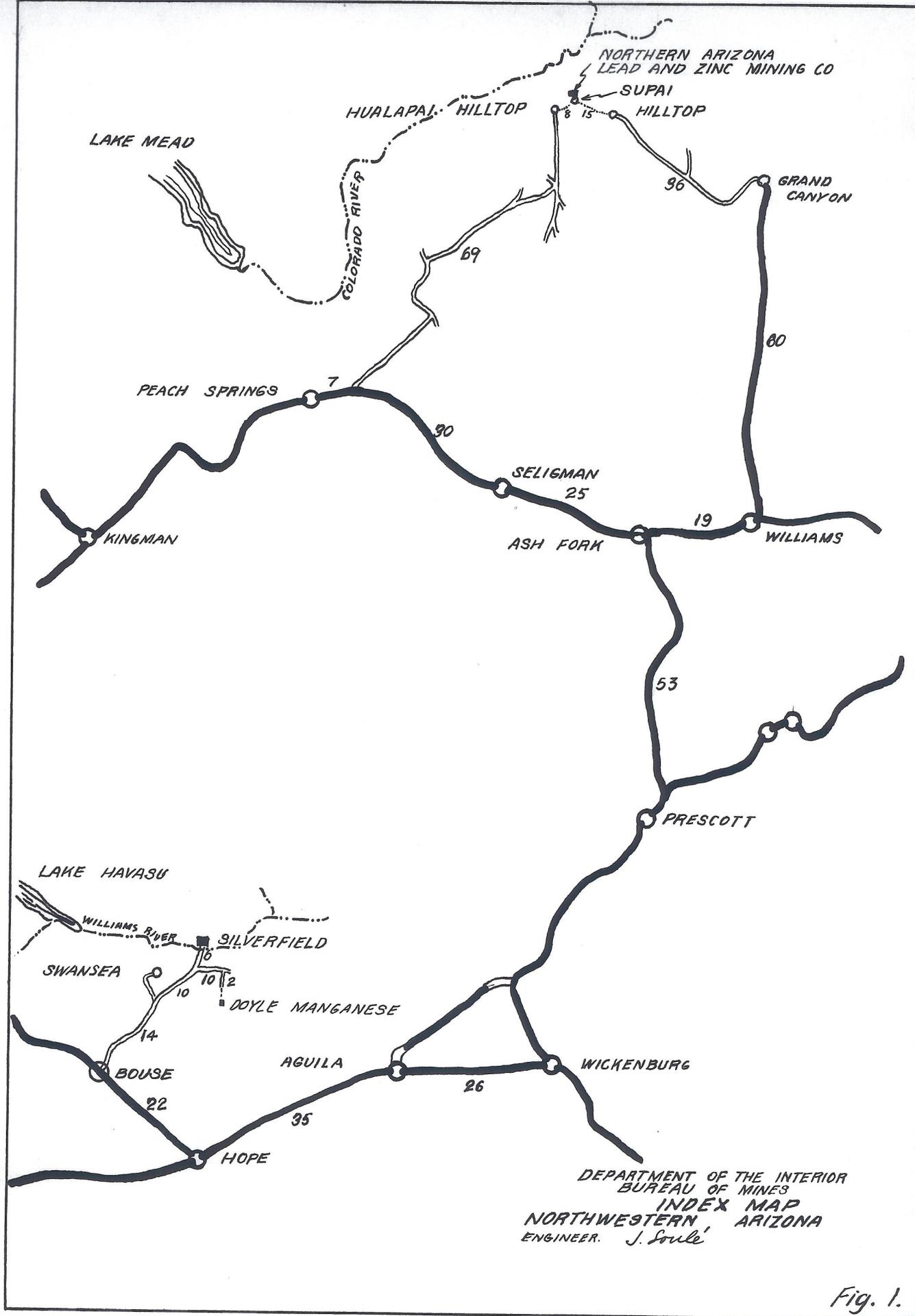


Fig. 1.

For 1 - Havasu Lead & zinc mine

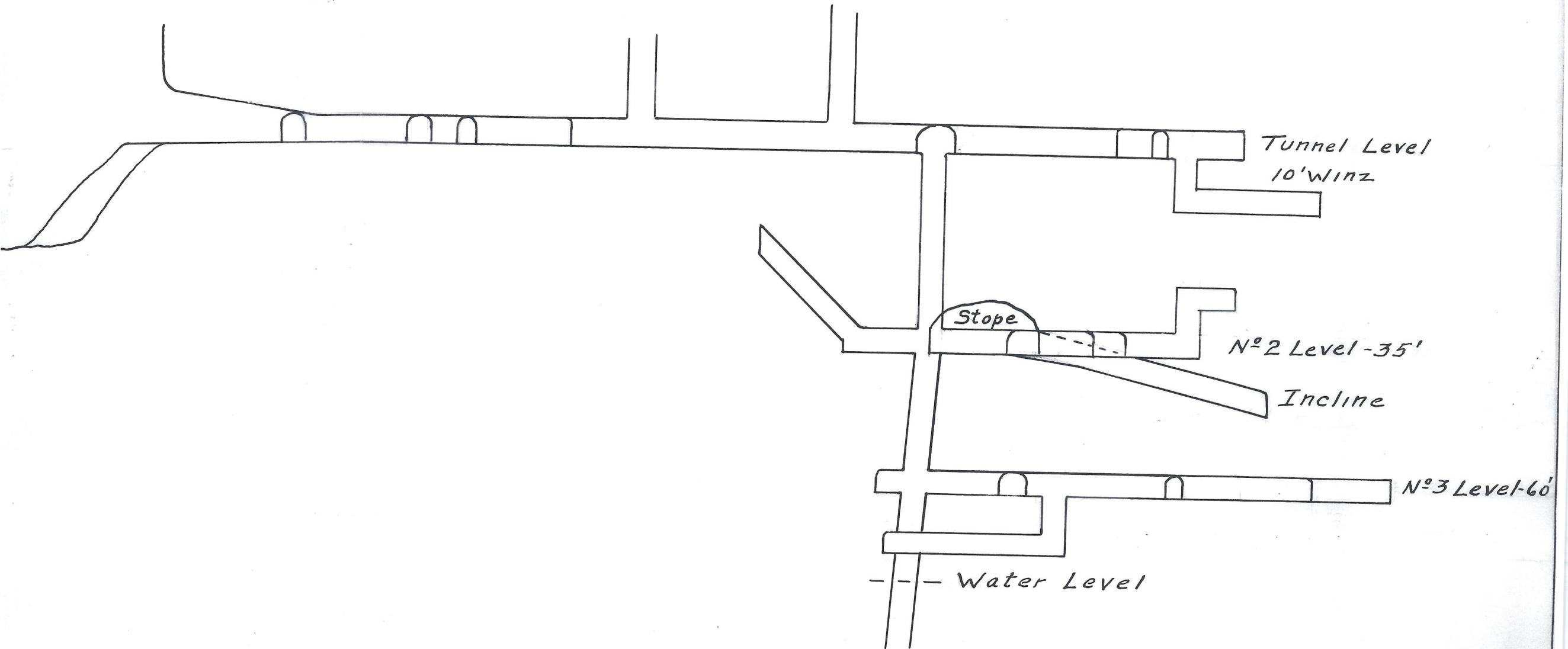


FIG. 4
SCALE



VERTICAL PROJECTION ON A-A'- BRIDAL VEIL MINE

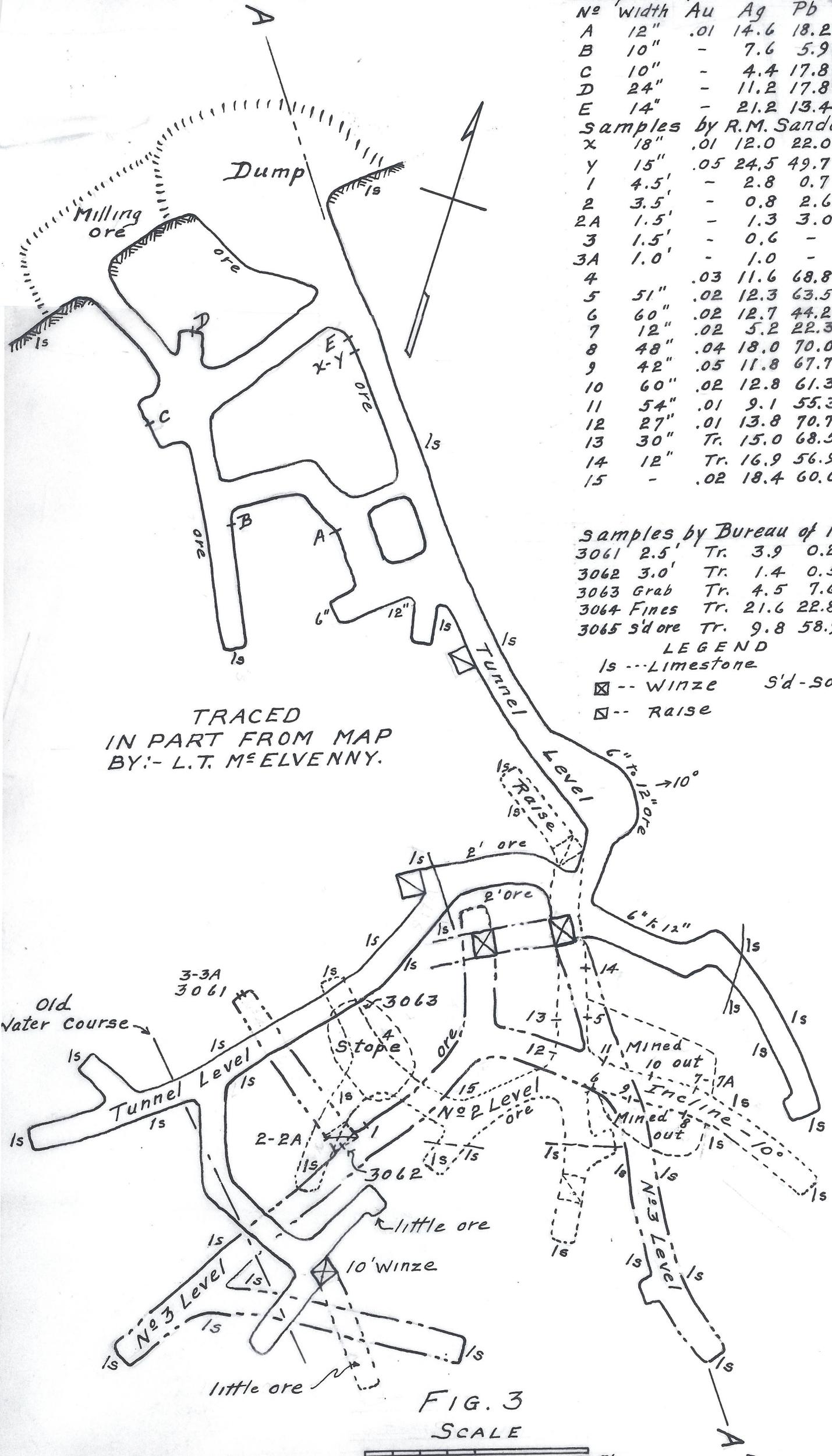
Samples by L.T. McElvenny

No	width	Au	Ag	Pb	Zn.
A	12"	.01	14.6	18.2	
B	10"	-	7.6	5.9	
C	10"	-	4.4	17.8	
D	24"	-	11.2	17.8	
E	14"	-	21.2	13.4	
Samples by R.M. Sanderse					
X	18"	.01	12.0	22.0	
Y	15"	.05	24.5	49.7	
1	4.5'	-	2.8	0.7	29.
2	3.5'	-	0.8	2.6	5.
2A	1.5'	-	1.3	3.0	12.
3	1.5'	-	0.6	-	27.
3A	1.0'	-	1.0	-	16.
4		.03	11.6	68.8	
5	51"	.02	12.3	63.5	
6	60"	.02	12.7	44.2	
7	12"	.02	5.2	22.3	
8	48"	.04	18.0	70.0	
9	42"	.05	11.8	67.7	
10	60"	.02	12.8	61.3	
11	54"	.01	9.1	55.3	
12	27"	.01	13.8	70.7	
13	30"	Tr.	15.0	68.5	
14	12"	Tr.	16.9	56.9	
15	-	.02	18.4	60.0	

Samples by Bureau of Mines

3061	2.5'	Tr.	3.9	0.2	23.2
3062	3.0'	Tr.	1.4	0.5	14.2
3063	Grab	Tr.	4.5	7.6	2.4
3064	Fines	Tr.	21.6	22.8	1.3
3065	s'd ore	Tr.	9.8	58.9	0.9

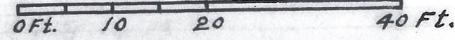
LEGEND
 ls --- Limestone
 ☒ -- Winze s'd-sorted
 ☐ -- Raise



TRACED
 IN PART FROM MAP
 BY:- L.T. McELVENNY.

FIG. 3

SCALE



COMPOSITE MAP - BRIDAL VEIL MINE