



CONTACT INFORMATION

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Arizona Department of Mines and Mineral Resources Mining Collection

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07/27/88

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: BEST BET MINE

ALTERNATE NAMES:
GOLD KNOB GROUP

MOHAVE COUNTY MILS NUMBER: 39F

LOCATION: TOWNSHIP 19 N RANGE 20 W SECTION 28 QUARTER SE
LATITUDE: N 35DEG 00MIN 05SEC LONGITUDE: W 108DEG 24MIN 42SEC
TOPO MAP NAME: OATMAN - 7.5 MIN

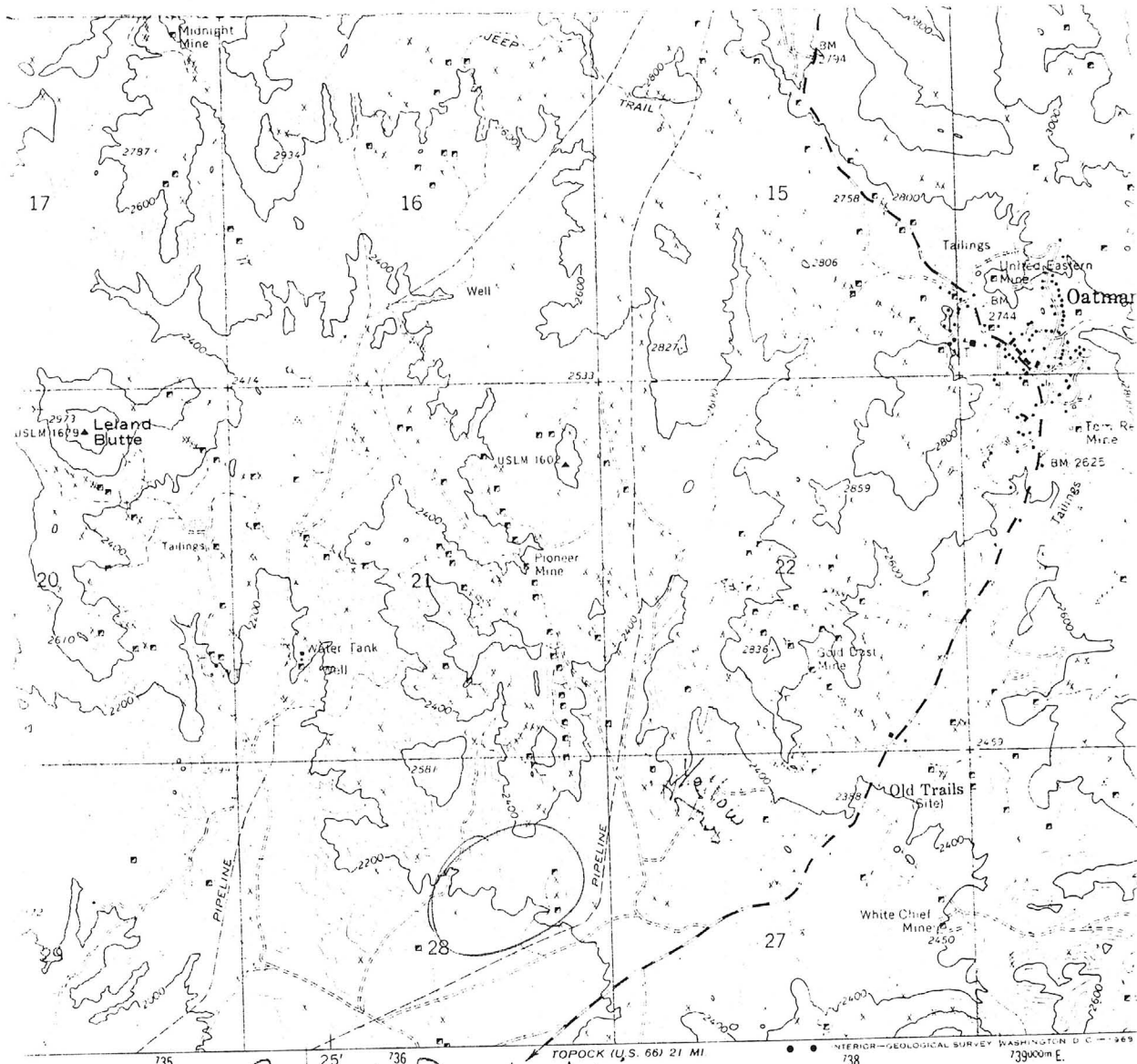
CURRENT STATUS: DEVEL DEPOSIT

COMMODITY:

GOLD	
SILVER	SULFIDE
SILVER	OXIDE
COPPER	SULFIDE
COPPER	OXIDE
LEAD	SULFIDE
ZINC	OXIDE
LEAD	OXIDE
ZINC	SULFIDE

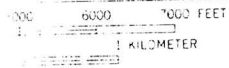
BIBLIOGRAPHY:

ADMMR BEST BET MINE FILE, MAP
CONFLICTING INFORMATION CONCERNING LOCATION
IN ADMMR BEST BET MINE FILE



Best Bet Mine

T 19 N R 20 W Sec. 28



QUADRANGLE LOCATION

ROAD CLASSIFICATION
 --- Medium duty
 --- Light-duty
 --- Unimproved dirt

ST STANDARDS
 0225, OR WASHINGTON, D. C. 20242
 S AVAILABLE ON REQUEST

OATMAN, A.
 N35CO—W11422

1967

Oatman, AZ 7.5'

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

October 3, 1958

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

Gold Knob Group (Mohave County) copper, zinc, lead, silver and gold
(Property) (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

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

August 26, 1958

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

Best Bet Mine (Mohave County) copper, zinc, lead, silver, gold
(Property) (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

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

August 21, 1958

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

Best Bet Mine (Mohave County) copper, zinc, lead, silver and gold
(Property) (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

BEST BET MINE

REFERENCES

MOHAVE COUNTY
MAYNARD DIST.
T19N R20W Se.c 28

Mohave County MILS Index #39F

AKA: Gold Knob Group

Oatman, AZ 7.5' Topo (included in file)

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine BEST BET MINE (3 claims)

Date August 24, 1942

District Maynard, Mohave Co.

Engineer Elgin B. Holt

Subject: B R I E F R E P O R T

OWNERS: J. H. Knight, Pete Vukoye & Mike Vukoye, Kingman, Ariz.

METALS: Copper, zinc, lead, silver and gold.

LOCATION: This group consists of three mining claims, located at an elevation of 5340 feet above sea level on the eastern slope of the Hualpai Mountains, in Mohave County, Arizona. The property is reached from Kingman by a county-maintained road to within 3,000 feet of the same; thence by pack-trail to the mine workings.

APPLICATION FOR AN RFC LOAN: On July 5, 1942, Mr. Knight and associates made application to the Reconstruction Finance Corporation for a \$20,000 loan with which to develop this property. At the time this application was submitted, I was absent from Kingman. On my return, I visited the property in company with Pete Vukoye, on July 15, 1942. Not much work was done; the main ore showing being a small lens. Immediately I saw that the chances for securing this loan were not very good. However, I write Mr. Knight a letter describing the mine in detail, incorporating in the letter the results of one sample that I cut from the lens mentioned. This letter was forwarded by Mr. Knight to RFC for consideration. Mr. Knight has just informed me that he has received a reply from RFC asking for more specific data about the property. I advised him to do some more work, consisting of sinking around 20 feet on the said lens before renewing the said application. He agreed to this arrangement.

GEOLOGY, ORE, DEVELOPMENT WORK, ETC: The country rocks consist of a granite-gneiss complex, intruded by later igneous dikes. This formation is traversed from north to south by two parallel veins, around 75 feet apart, and dipping around 70 deg. to the East. These veins cross a deep canyon at right angles to the same. The westerly, or main vein, has been developed by means of an open cut, driven from a point around 10 feet above the bed of the canyon wash, around 30 feet in a northerly direction. At the end of this cut, the apex of a small ore shoot was found, on which a test pit was sunk to a depth of three feet. The ore started as a stringer in the face of the cut; but widened to 22 inches in the bottom of the test pit. Ore consists of partly oxidized and partly sulphide material; sphalerite, galena, bornite and chalcopyrite being constituents of the ore. As water stood in the test pit to a depth of three feet, I cut a sample across 12 inches in the vein above water. The resulting assays follow:

Au-ozs.	Ag-ozs.	Cu-%	Pb-%	Zn-%
0.02	18.60	1.52	8.50	5.10

Exploratory work should consist of sinking directly on the ore shoot mentioned in order to prove the dimensions and importance of the same.

Elgin B. Holt
Field Engineer

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine BEST BET MINE (3 claims) Date August 24, 1942
District Maynard, Mohave Co. Engineer Elgin B. Holt
Subject: B R I E F R E P O R T

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Elgin B. Holt
Field Engineer

J. H. KNIGHT, PRES. & GEN. MGR.

C. A. DUTTON, SEC. & TREAS.

CARL G. KROOK, VICE-PRESIDENT

Mohave Steam Laundry Company

PHONE BLUE 84
KINGMAN, ARIZONA

May 9 1942.

Mr. Elgin B. Holt.
% Chas F. Willis,
529 Title & Trust Building,
Phoenix, Arizona.

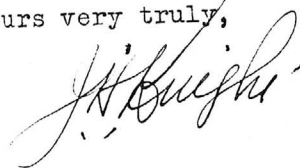
Dear Mr. Holt:

In 1918 I was interested in a mining property in the Hualapai mountains notably for its zinc content and its purity. I have recently acquired this property and am enclosing a report of S.S. Jones, made in 1918, which tells the story.

If you should run across a couple of good miners, who have their equipment, and would like a lease on this property, please put me in touch with them and I will remember you.

If you are coming up this way anytime soon, will be glad to show you this property.

Yours very truly,



May 18, 1942

Elgin B. Holt,
c/o L. V. Root,
Kingman, Arizona.

Mr. J. H. Knight,
Mohave Steam Laundry,
Kingman, Arizona.

Dear Mr. Knight:

I have your letter of May 9th, in which you enclose a report by Mr. S. S. Jones concerning a zinc-silver-gold mine in the Maynard District.

This sounds interesting and I may be able to help you do something with it, providing the property is open for inspection. Zinc is in great demand now and it is just possible you might get an RFC development loan with which to open it up.

Anyhow, I will be in Kingman within about a week at which time I will try to see you in order to talk this matter over, although I have a number of commitments ahead of me - all bogged down, in fact, with advance work.

Very sincerely yours,

Elgin B. Holt,
Field Engineer.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine BEST BET MINE (3 claims)

Date April 20, 1955

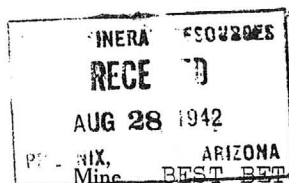
District MAYNARD, MOHAVE COUNTY

Engineer MARK GEMMILL

Subject:

Unable to contact any of the owners - The property has been inactive and
may be abandoned.

*



DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

District Maynard, Mohave Co.

Date August 24, 1942

Engineer Elgin B. Holt

Subject:

B R I E F R E P O R T

OWNERS: J.H. Knight, Pete Vukoye & Mike Vukoye, Kingman, Ariz.

METALS: Copper, zinc, lead, silver and gold.

LOCATION: This group consists of three mining claims, located at an elevation of 5340 feet above sea level on the eastern slope of the Hualpai Mountains, in Mohave County, Arizona. The property is reached from Kingman by a county-maintained road to within 3,000 feet of the same; thence by pack-trail to the mine workings.
Sec 27, T. 19N., E. 20W.

APPLICATION FOR AN RFC LOAN: On July 5, 1942, Mr. Knight and associates made application to the Reconstruction Finance Corporation for a \$20,000 loan with which to develop this property. At the time this application was submitted, I was absent from Kingman. On my return, I visited the property in company with Pete Vukoye, on July 15, 1942. Not much work was done; the main ore showing being a small lens. Immediately I saw that the chances for securing this loan were not very good. However, I wrote Mr. Knight a letter describing the mine in detail, incorporating in the letter the results of one sample that I cut from the lens mentioned. This letter was forwarded by Mr. Knight to RFC for consideration. Mr. Knight has just informed me that he has received a reply from RFC asking for more specific data about the property. I advised him to do some more work, consisting of sinking around 20 feet on the said lens before renewing the said application. He agreed to this arrangement.

GEOLOGY, ORE, DEVELOPMENT WORK, ETC.: The country rocks consist of a granite-gneiss complex, intruded by later igneous dikes. This formation is traversed from north to south by two parallel veins, around 75 feet apart, and dipping around 70 deg. to the East. These veins cross a deep canyon at right angles to the same. The westerly, or main vein, has been developed by means of an open cut, driven from a point around 10 feet above the bed of the canyon wash, around 30 feet in a northerly direction. At the end of this cut, the apex of a small ore shoot was found, on which a test pit was sunk to a depth of three feet. The ore started as a stringer in the face of the cut; but widened to 22 inches in the bottom of the test pit. Ore consists of partly oxidized and partly sulphide material; sphalerite, galena, bornite and chalcopyrite being constituents of the ore. As water stood in the test pit to a depth of three feet, I cut a sample across 12 inches in the vein above water. The resulting assays follow:

* Au-ozs.	Ag-ozs.	Cu-%	Pb-%	Zn-%
0.02	18.60	1.52	8.50	5.10

Exploratory work should consist of sinking directly on the ore shoot mentioned in order to prove the dimensions and importance of the same. *Hat*

Elgin B. Holt,
Field Engineer. *Elgin B. Holt*

July 19, 1942

Subject: BEST BET MINE

Elgin B. Holt,
P. O. Box 108,
Kingman, Ariz.

Mr. J. H. Knight,
Kingman, Arizona.

Dear Mr. Knight:

In answer to your request, I am writing a very brief description and opinion of your Best Bet mining property, located 20 miles southeast of Kingman, which I visited recently in company with Mr. Pete Vukoye.

This group consists of three mining claims located at an elevation of 5340 feet above sea level on the eastern slope of the Huachuap Mountains. The property is reached from Kingman by a county maintained road to within 3000 feet of the same; thence by pack trail to the mine workings.

The country rock consists of a granite-gneiss complex, intruded by later igneous dikes. This formation is traversed from north to south by two parallel veins, of the fault fissure type, about 75 feet apart and dipping 70 deg. to the East. These veins cross a deep canyon at right angles. The westerly, or main vein, has been developed by means of an open cut driven from a point ten feet above the bed of the said canyon westward 30 feet in a northerly direction. At the end of this cut the apex of an ore shoot was found on which a test pit was sunk to a depth of three feet. The ore started as a stringer in the face of the drift, but widened to 22 inches in the bottom of the said test pit. Ore consists of partly oxidized and partly sulphide material, both galena and sphalerite being present, as well as small lumps of bornite and chalcopyrite. As water stood in the test pit to a depth of three feet, I cut a sample across 12 inches of vein in the face of the open cut mentioned. The resulting assays, per the certificate attached hereto, follows:

Au-ozs.	Ag-ozs.	Cu-lb	Pb-lb	Zn-lb
0.02	18.60	1.52	8.30	5.10

* Exploratory work should consist of sinking directly on the ore shoot referred to in order to prove the dimensions and importance of the same. I believe if this work can be financed and carried out in an intelligent manner, there is a very good chance indeed to uncover a workable ore body out of which considerable money should be made.

Very sincerely yours,

Elgin B. Holt,
Field Engineer.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine BEST BET MINE (3 claims).

Date August 24, 1942

District Maynard, Mohave Co.

Engineer Elgin B. Holt

Subject:

BRIEF REPORT

OWNERS: J.H. Knight, Pete Vukoye & Mike Vukoye, Kingman, Ariz.

METALS: Copper, zinc, lead, silver and gold.

LOCATION: This group consists of three mining claims, located at an elevation of 5340 feet above sea level on the eastern slope of the Hualpai Mountains, in Mohave County, Arizona. The property is reached from Kingman by a county-maintained road to within 3,000 feet of the same; thence by pack-trail to the mine workings.

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0.02	18.60	1.52	8.50	5.10

Exploratory work should consist of sinking directly on the ore shoot mentioned in order to prove the dimensions and importance of the same.

Elgin B. Holt,
Field Engineer.

Exhibit "B"

REPORT ON THE PROPERTY OF THE
BEST BET MINING COMPANY

Oatman, Arizona, May 31st, 1916.

Gentlemen of the.
BEST BET MINING COMPANY.

Upon examination of your property known as the Gold Knob group of claims, in the San Francisco Mining District, Mohave County, Arizona, I find that it consists of four claims and a fraction, comprising about 80 acres of mineral ground.


The property is situated about two and one-half miles southwest of the town of Oatman, lying mainly in a group of low rolling hills which protrude through one of the typical Arizona gravel washes, presenting smooth topographical features to the immediate neighborhood. The country in general however, has a rather rugged topograph being a mountain range composed of a rather extensive series of Tertiary lava flows and sheets, cut and broken by numerous faults, dykes and veins.

The main highway from Needles and Topock, as well as the Pioneer road crosses the property and a branch can be readily constructed from one of these to any point on the property.

Water for mining purposes can doubtless be secured from the Orion pipe line which runs close to the property.

No extensive work or other improvement has as yet been done on the property, it being still in a prospective stage. Several location holes and open cuts however disclose a double system of veins upon the three parallel claims - i.e. Gold Knob, Gold Knob No. 2, and Gold Knob No. 3.

*



the vein will develop the most promising part of this property and ore bodies may be looked for on either set of veins and at their junction.

In conclusion I can say that the occurrence of the eight veins being closely connected with each other, and carrying good values at the surface, makes this a promising prospect, and I can recommend it as being worthy of development.

(Signed) Geo. Z. MILLER

This property is now known as the BEST BET MINE.

Kingman, Arizona, June 1 1918.

To the
Mohave Metals Company.
Kingman, Arizona.

Gentleman:

I hand you herewith a preliminary report on the property of MOHAVE METALS COMPANY. In this report, necessarily somewhat cursory, I have sought to bring out the most salient and prominent features in connection with the deposits of ore that have been opened up by shafts and cuts. As the property is a new one, very little work has, as yet, been done. In order to form an adequate estimate of the value of the properties as a whole, one must be guided by the general geological facts existing therein. Giving these due consideration, inferentially, I reach the conclusion, that the group owned by the Mohave Metals Company merits the most extensive development.

The following claims constitute the group; The Boston, the Bangor, the Boston and Bangor No 2, 3, 5, 6, 7, 8, 9, The Belfast, the Bucksport, and the Brewer; aggregating two hundred and fifty acres in area.

The Boston, Bangor, and Belfast are on the strike of the main zinc silver vein. The others are adjacent and sideline claims as the map will show. Location work for all the claims has been done.

LOCATION OF PROPERTY.

The group of claims owned by your company is situated in the Maynard Mining District, County of Mohave, State of Arizona; Twenty-two miles southeast of the town of Kingman, Arizona; They are reached by wagon road. Sixteen miles of this road is the main county road to the sandy district, and is the best highway in Mohave County, being graded and for excellent width. From this main road to the Telluride Chief Mine there is a very fair wagon road. From the Telluride Chief road to the property of the Mohave Metals Company is three miles, and both wagon and Automobile may travel to within half mile of the centre of the property. Within a short time autos may be driven direct to the property.

SUPPLIES.

* The freighting problem, in connection with the operation of the property, will present no difficulties. The logical point for shipping would be the station of Berry, on the mainline of the Atchison Topeka and Santa Fe Railroad. This Station is nineteen miles from the property and about all that is necessary to make a wagon road is to throw the rocks out and drag with a railroad iron, it being downhill from the property to the station of Berry.

ELEVATION.

The vein in which the ore occurs is of the regular fault-fissure type, sometimes characterised as "true fissure type" besides the vein opened up on the Boston and Bangor claims, there are two other particularly well defined veins showing on the surface of the Boston and Bangor No 2, and on Boston and Bangor No 7. These veins are shown on all of the claims,

In conclusion allow me to state that the group gives much promise for commercial ore in content of Zinc and Silver. The property presents an excellent opportunity for legitimate exploration and development, and is ~~#####~~ highly recommended as a development venture.

Respectfully submitted.

Signed. S.S.Jones.

ELEVATION.

The elevation of the group at the shaft situated on the Bangor claim is five thousand feet.

TOPOGRAPHY.

The topography is that usually found in any granite country. At the Boston and Bangor claims the hills on either side of the gulch are steep enough to afford practical tunnel sites on both sides of the gulch. The sketch attached will show this feature. The topography in general is that which is characteristic of granite and porphyry formation, carved and worn with rather steep gulches by rapid water erosion.

WATER.

There has been developed on the property. springs of good water, sufficient for camp use. The supply can be largely increased by development.

TIMBER and VEGETATION.

There is considerable growth of brush and juniper on the property, enough to furnish camp for sometime to come. At a distance of two miles there is an exceptional growth of pines and scrub oak.

GEOLOGY.

Broadly speaking, the rocks belong to the Pre-cambrian granite series. These have been raised to their present position by a series of extensive faults. In the readjustment of the fault blocks, large fissures were developed. These fissures were intruded by pegmatites, grano-diatites, diabases, porphyryies etc. The mineralising of the veins, from my observations, seemed to have been greatly influenced by the grano-diorite and porphyry dykes. The same association I have repeatedly noticed in cases of zinc bearing of the adjacent cerbay range, and especially in the great Tennessee, and Golconda mines of this district.

VEINS AND ORES.

The outcrop of the veins on your property is characterized by honeycombed quartz. Oxides of Iron some Manganese, and at places, copper stains and small specks of altered zinc blende. The zinc blende occurs in quantity about twenty feet below the outcrop on the Bangor claim in a location shaft. There is here exposed a body of zinc ore eighteen inches wide. By independent samplings this ore has shown an average of thirty per cent zinc, eighteen-hundredths ounces in gold, and eighteen and seventy-two hundredths ounces in silver;. Width of high-grade streak of vein; eighteen inches.

ASSAYS.

Zinc	30 per cent
Gold	.08 Ounces
Silver	18.72 "

ASSAYS continued,

Width of vein for three feet(including above high-grade streak)

Zinc	17 per cent
Gold	.04 Ounces
Silver	9.20 "

In addition to the sampled portions of the vein, there are streaks of zinc out in the hanging wall which gives promise of uniting with the main body, thereby increasing the width of the main vein at depth.

One may reasonably expect, upon development, to encounter zinc bodies of shipping ore at depth. The body of ore exposed is of fine concentrating grade for at least four feet.

The zinc blende is of remarkably pure character, there being practically no iron-pyrites to interfere with obtaining a concentrate of very high zinc content. The mode of occurrence of the zinc blend in the ore is that of a distinctly crystallised, very dark mineral, evidently replacing the original feldspar minerals of the grano-diorite dyke which forms the hanging wall of the vein. The hanging wall dyke is sheared for a distance of from ten to fifteen feet from the vein. These shearing planes are closely spaced and are spaced from one-eighth to one inch apart. They are filled with iron oxides and clay. At times there is deposits of very high grade zinc blende in these shear planes and one may confidently expect these shear zones to yield considerable tonnage of concentrates on sufficient development.

Owing to the mode of occurrence above referred to, of the zinc blende in the ore, the concentration of the zinc constituent should be a very simple problem and high recoveries should result therefrom.

Concentrates made by hand with an ordinary gold pan, have assayed as high as 60% zinc.

The size of the crystals of the zinc blende indicates that crushing to a moderate degree of fineness, only, will be necessary. In which case the bulk of the metallic content of the ore can be removed by Jigs and roughing tables.

METHODS OF MINING.

The vein matter as exposed by cuts and shafts is soft, and stoping should be low in cost. It is entirely feasible to develop large portions of your veins by tunnels. The topography of the country is such as to make that method practical.

ADDITIONAL VEINS.

* The Boston and Bangor vein outcrops at many places, showing similar mineral stainings to that shown above the point of the known body of zinc ore. The dip of the vein is 72° easterly, the trend or strike conforming closely to the axis of the mountain range. The strike south of the gulch, between the Boston and Bangor claims, is slightly west of south; north of the gulch it is a little west of north.