

CONTACT INFORMATION

Mining Records Curator Arizona Geological Survey 1520 West Adams St. Phoenix, AZ 85007 602-771-1601 http://www.azgs.az.gov inquiries@azgs.az.gov

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Arizona Department of Mines and Mineral Resources Mining Collection

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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: TEXONA MINE

ALTERNATE NAMES:

GOLD NUGGET NO. 2

GOLD KINE 1914 NO. 1

PINAL COUNTY MILS NUMBER: 769

LOCATION: TOWNSHIP 2 S RANGE 13 E SECTION 26 QUARTER SW LATITUDE: N 33DEG 13MIN 27SEC LONGITUDE: W 110DEG 59MIN 37SEC

TOPO MAP NAME: HOT TAMALE PEAK 7.5 MIN

CURRENT STATUS: EXP. PROSPECT

COMMODITY:

COPPER SULFIDE

LEAD GOLD LODE

SILVER

BIBLIOGRAPHY:

ADMMR TEXONA MINE FILE

HOT TAMALE PEAK QUAD PREVIOUSLY CALLED SONORA

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

August 6, 1998

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

Terona Mine (Minal County)

colc. silver. lead

(Property)

(ore)



perty which we would like to have

Fr. Toward A. Hughes

iox 162

Resa, Arizona

's Report form with as complete detail , maps, assay returns, shipment returns s before and which might interest a perty.

Frank P. Knight

FRANK P. KNIGHT, Director.

Enc: Mine Owner's Report

(Edward)

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Mr. Wdward A. Hughes, Box 162, Mesa, Arizona.

My dear Mr. Hughes:

I am enclosing herewith a copy of mines owners report filed in this office covering the TEXONA MINE in Pinal County.

I am also enclosing the COPY OF REPORT OF THE TEXONA GROUP, which you left with me. This report has been copied and placed in the files with the mine owners report.

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

Yours very truly,

J. S. Coupal Pirector

JSCjrf encls.

REGISTERED MAIL
Return Receipt Requested.

12 Merian

MUMORANDUM

TO: Fred Ferkins

FROM: J. S. Coupel

I am sending a copy of this memorandum to Mr. Hughes, making an appointment for you to meet him at noon on July 15 at the old adobe house alongside the road where you met him before.

I hope you will be able to straighten out Mr. Hughes and give him advice as to just how to fill out his application for the mine loan.

Ø.

Memorandum

July 6th, 1942

From: Fred H. Perkins

TEXONA MINE
E. A. Hughes
(Ray)

To: J. S. Coupal

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Since you have offered, I would be glad if you would get in touch with Mr. Hughes and make an appointment for me about noon of July 13th, 1942, and I will meet him on his ground at that time.

If possible notify me not later than Saturday, July 11th, 1942, at Globe, Arizona, if he can and will be at the old adobe house alongside the road where I have met him before.

I can't possibly be there at an earlier date.

If I don't hear from either you or Hughes, I'll know he will be there July 13, 1942, about noon.

FRED H. PERKINS

fhp-k

Fred H. Perkins.

E. A. Huges, P O Box 162, Mesa has just called.

He has been waiting patiently for you to call at his mine and help him out. You talked with him at the Ray meeting and correctly told him that you could not do his job at that time.

Hughes hounded me to death until I went out and looked over other property he is holding on the road between Ray and Superior. I went out and looked his property but in the meantime he had an attorney help him file out an application for a \$ 150,000 loan and added a statement as follows "we are not mining men and we want you to grant this loan and send an engineer out to lay ut the work and tell us how it should be spent."

Needless to say he has not heard from his loan application.

He has two properties. The Texaona seems the best bet to try on for a loan. It is located about 22 miles up Mineral Creek from Ray.

I know you are scheduled for Duncan to Willcox the week commencing July 6 and would not be available for Hughes until sometime after the 13th.

If you have made no definite committments for Friday of this week why not try to make the trip to Hughes' property the Texona on Friday. If you are tied up drop me a card and I will write Hughes and tell him you cannot make it until sometime on the 13th or after according to what best suits your plans.

If you can make it for Friday I think you had best put in a phone call for Hughes and make such arrangements as you can to give him the much needed help.

Hughes says you can reach him by phoning the Greyhound Bus Station at Mesa and ask them to call Hughes to the phone, or you could phone me here at Phoenix and reverse the charges and I will then phone Hughes.

I told Hughes that we would assist him. To get the loan you will show him how to make out the application. I also said he would have to have certain assays made to convince the RFC that it was a worth while loan and that you would cut the samples but that he would have to stand the cost of assays.

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Advise me by a card or note if you make connections for Friday or if unable tell me when you can fit it into your plans.

Will mail expense check for last half of June just as soon as Imprest Fund is reestablished which should be in a day or two.

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

August 8, 1958

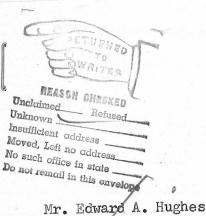
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gold, silver, lead

(Property)

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Box 162

Mesa, Arizona

AUG 8 630PM 1958

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FRANK P. KNIGHT, Director.

Enc: Mine Owner's Report

(Edward)

HUGHES, E. A.

302 South McDonald Street Box 162 ('48)

Mesa, Arizona

11-12-42

See MT-22 - Re Mine Owner's Report 4-16-41 -TEXONA MINE, Pinal Co.

See DONNA MINE

Re - development loan

See OPA REPORTS - re gas application

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August 8, 1958

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

Texona Mine (Pinal County) gold, silver, lead
(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.

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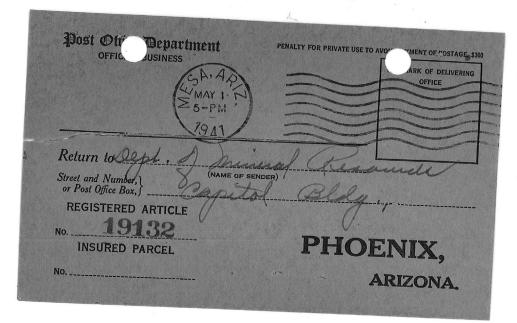
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Form 3811 Rev. 1-4-40

RETURN RECEIPT

Received from the Postmaster the Registered or Insured Article, the original number of which appears on the face of this Card.

1 Edward A Hughes
(Signature or name of addressee)

2 (Signature of addressee's agent—Agent should enter addressee's name on line ONE above)

Date of delivery

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U. S. GOVERNMENT PRINTING OFFICE

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DEPARTMENT OF MINERAL RESOUR. STATE OF ARIZONA MINE OWNERS REPORT

Date

April 16, 1941

Mine Texona Mine

Location - $2\frac{1}{2}$ miles NW of Ray on west side of Mineral Creek.

Mining District & County - Mineral Creek Dist.

Pinal County

Former Name

Owner - Edw. A. Hughes

Address - Box 162, Mesa, Arizona

Operator

Address

President, Owning Co.

President, Operating Co.

Gen Mgr.

Principal Minerals - Gold, Silver,

Lead

Mine Supt.

Production Rate.

Mill Supt.

Mill: Type & Cap.

Men Employed

Power: Amt & Type

Operations: Present - None

Operations: Planned - Requires financing for development and milling.

Number Claims, Title, etc. - 10 claims unpatented. Title clear and assessment annually taken care of.

Description: Topography & Geography - Rather rugged country located close to Mineral Creek.

Typical desert country vegetation.

Mine Workings: Amt. & Condition - On No. 1 claim a shaft 75 ft. deep with 25 ft. drift at bottom. Several smaller shafts all in ore.

Geology & Mineralization - Altered metamorphosed schist porphyry and a large segment of lime laying above it.

. Ore: Positive & Probable, Ore Dumps, Tailings - Veins show 4000 ft. in length.

Dimensions and Value of Ore body - Numerous veins from 6 inch up to 40 ft. Assays ran from trace to 1 oz. in gold - from 3 to 70 ounces in silver - from $4\frac{1}{2}$ to 36% in lead and from 1 to 18% copper, but no samples taken to show average value across veins.

Mine, Mill Equipment & Flow Sheet - None

Road Conditions, Route - $2\frac{1}{2}$ miles from Ray. Road fair and can be easily made good.

Water Supply - Ample water for milling can be pumped to proposed mill, which should be located on property.

Brief History -Roy's report claims by proper development property should stand a 500-ton mill.

Special Problems, Reports Filed - Report by Roy Griswald Colorado Springs, Colo. Jan. 25, 1927

Remarks - From present development work done there is enough ore opened up to warrant putting up a mill of 25 tons capacity a day; a crushing and concentrating plant.

If property for sale: Price, terms and address to negotiate - For sale or lease. See owner.

SIGNED - Edw. A. Hughes
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Mill: Type & Cap.

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Power: Amt. & Type

Operations: Present - None

Operations: Planned - Requires financing for development and milling.

Number Claims, Title, etc. - 10 claims unpatented. Title clear and assessment annually taken care of.

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Mine Workings: Amt. & Condition - On No. 1 claim a shaft 75 ft. deep with 25 ft. drift at bottom. Several smaller shafts all in ore.

Ore: Positive & Probable, Ore Dumps, Tailings - Veins show 4000 ft. in length.

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If property for sale: Price, terms and address to negotiate - For sale or lease. See owner.

SIGNED - Edw. A. Hughes
Box 162, Mesa, Arizona

COPY OF REPORT OF THE TEXONA GROUP

LOCATION

These properties are located about two and one half miles to the northwest of the town of Ray on the west side of Mineral Creek in the Mineral Creek Mining District, Pinal County, Arizona.

AREA

This group is composed of 10 claims or an area of about 240 acres of ground,

FORMATION

The formation is altered of Metamorphosed schist porphyry and a large dyke of lime laying above these. The general trend is an easterly and westerly strike with veins having a dip to the North.

VEINS

On the Gold Nugget No. 2 claims are several small veins, one of them about 6 feet of vein matter with from 6 inches to over two feet of quartz carrying good values. This vein has a porphyry hanging wall and a metamorphosed schist foot wall. Ore from this vein was sorted and then amalgamated over \$20 per ton in gold. The values ran from \$6 to over \$70 in gold per ton carrying from 4 ounces to 20 ounces in silver values.

Other veins on this group are from 6 inches in width up to over 40 feet in vein matter in the main vein that is on the contact of this lime as a hanging wall, with Sulphide of Iron, Copper and Lead dissemilated all through the Matrix of the veins.

The assays from this vein have given returns of from a trace in gold to one ounce gold, from 3 ounces in silver to 70 ounces in silver values, from $4\frac{1}{2}$ per cent lead to 36% lead and from 1% copper to 18% copper values, but no samples have been taken across the veins to get the general values of the whole veins.

As from the percentage of the sulphides through the veins there are several places that it looks to have enough sulphide carrying the values to pay for concentrating them. All of the assays have been taken from stringers in the vein for a distance of about "4000 feet in length."

DEVELOPMENT WORK

There is a shaft on the 1914 No. 1 claim 75 feet deep with a drift 25 feet towards the lime or hanging wall, the entire dump is a lead sulphide ore.

There are several small shafts and drifts in these claims all in ore from a few inches in width up to 6 feet in width.

SUMMARY

To open these properties the shaft on the 1914 No. 1 claim which is down 75 feet should be sunk to not less than 500 feet, with crosscuts across the vein at every 100 feet in depth, as well as drifts ran on the vein, especially on the richest stringers in the vein, also while sinking and developing all of the works assays should be taken every foot of the development work.

On the Gold Nugget No. 2 shaft should be sunk where on the surface shows an ore body of over 20 feet in_width, also to the north west of this shaft in the bottom of the Gulch on the Gold King a tunnel should be run on the veins which here is over 45 feet in width, highly mineralized with some rich stringers of high grade lead and

copper values in them. These two veins from the surface indications and their trend show that they will come together in depth and this tunnel will not only get good depth but will also determine where the junction of these two veins is. At least every 100 feet in this tunnel crosscuts should be run and assays should be made of every foot of the development work idone.

From the present development work done there is enough ore opened up to warrant putting up a mill of 25 tons capacity a day, a crushing and concentrating plant. The mill should be put on the property and water pumped from the Mineral Creek for its use.

From the widths of the vein on this group of claims, by the proper development work later it will produce enough ore to keep running a plant to treat not less than 500 tons production per day up to over 1000 tons daily.

ROY GRISWALD, C & M E

· COLORADO SPRINGS, COLORADO.

Jan. 25, 1927.

GEOLOGY OF THE RAY MINING DISTRIBY JOSIAH EDWARD SPURR

The ore magmas vol. 1 and vol. 2

The rocks in the Ray mining district have at the base a complex series of schists of both igneous and sedimentary origin, which after uplift and an immense period of erosion was covered by Paleozoic quartzite and limestone.

Probably near the close of the Cretaccous, a great dome or batholith of granite porphyry worked upward into the schists, and ore deposition of disseminated primary lean copper-bearing sulphides, which later were to be concentrated by surface waters to form the ore deposits now being worked.

Tertiary land deposits overlie the Paleozoic sediments, so that this was a land surface during the Tertiary, and perhaps long before. Desert wash deposits alternate with lava flows and accumulations of volcanic ash; and the last deposit, of Pleistocene, was also a desert wash deposit.

Directly subsequent to the ore deposition, the first strong faulting occurred especially along a great nearly vertical fault (the Ray fault) which cuts north and south through the mineralized district; and the district occupied by the present major mining operations on the west side of the fault was uplifted, relatively to the country on the east side, perhaps one or two thousand feet. Erosion attacked the uplifted block and reduced it to the level of the other block, and Tertiary deposits of lava and desert wash were laid down upon the leveled country. Again, at about the end of the Tertiary, the same block (west of the Ray fault) was once more powerfully uplifted, probably upward of a thousand feet, and the uplifted area was again attacked by erosion, and the Tertiary rocks were stripped off. Later there was a general uplift of the whole region, and at the same time a reverse movement of a few hundred feet along the Ray fault, the block on the west this time subsiding, in contrast to its earlier repeated uplifts.

Summarizing the history from the point of view I wish to bring out, there was in this district an apparent lack of either igneous intrusion or important faulting, from pre-Cambrian to probably Cretaceous time; at the last named period came the granite porphyry and allied minor intrusions; and this was followed by surface volcanics (fed from dikes below) at intervals in the Tertiary. Heavy faulting followed close upon the granite prophyry intrusion and continued to the present, and therefore the general period of igneous activity and faulting coincided and the two were evidently connected as to origin; the main mineralized area had an upward movement or growth of at least three thousand feet, which growth occurred in two distinct and separate waves, and finally, in recent times, subsided a few hundred feet, I must lascribe this uplift of the fault blocks in question to the upward pressure of the igneous magma body which we know (from its intrusion) existed below. and its occurrence in two distinct and separate waves indicates periods of accumulated pressure, which became strong enough to overcome the weight of the underlying rocks. Tt may be that each of these uplifts resulted in some volcanic discharge near this district, though not detected in it; and that therefore there was no further upheaval will the telluric pressure had been accumulated. Similarly, the very recent subsidence may be due to magma migration from below this block elsewhere; or to a discharge of the accumulating pressure in some nearby place, so that the weight of the block overcame the residual pressure exerted beneath. Therefore, recurrent periods of uplift of fault blocks, at Ray, or elsewhere are no irregular.

In some cases rocks have been shattered under strain, without definite persistent fissures having been developed. The main copper deposits at Ray, Arizona is an instance of this. For a belt whose horizontal length is over 12,000 feet, and whose horizontal width is from 1,000 to 3,000 feet, the Pre-Cambrain schists in this camp

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In the ore belt there are certain areas relatively more highly mineralized than others, and one of the principal of these occurs in, over and around a small upreaching protuberant detail of the batholithic mass of granite porphyry beneath, so that the evidence of the close connection, genetically, of granite porphyry and primary ore is excellent. Now, since the complex fracturing which has afforded a site for ore deposition characterizes both porphyry and schist, the stresses which produced the fracturing obtained after the consolidation of the intrusion. What these stresses were I will not undertake to guess; they may have been due to the adjustment throuthout the cooling magma. On the other hand, we have seen that such adjustments characteristically produce fissure veins. They may have been due, also, to a general upward escape of magmatic gases, and the relatively, local character of the elongated patch of mineralization, would not be out of harmony with this latter explanation. These mineralized disseminated copper areas are rarely found, though regions where the apparently requisite geological combinations occur are widespread.

FIGURE BOTH VIVIA DEPARTMENT OF MINERAL RESOURCES - TO LESS HE TOTAL & TENDERAL STATE OF ARIZONA MINE OWNERS REPORT

Date April 16, 1941

Mine Texona Mine

xona Mine Location - 22 miles NW of Ray on west side of Mineral Creek.

Mining District & County - Mineral Creek Dist. Pinal County

Firmer Name . 17 Of of du dont d mort sniev sucremul - ybod ero to duly bas snciensalo.

OF of S mort - bles at ase I of east mer's

Owner - Edw. A. Hughes Arizona Address - Box 162, Mesa, Arizona

Operator section such a section of the Address

President, Owning Co.

President, Operating Co.

Gen Mgr.

Principal Minerals - Gold, Silver,

Mine Supt.

Lead Production Rate.

Ray. Road fair and can be easily made Mill Supt

Mill: Type & Cap.

Men Employed

Power: Amt. & Type

Spacial Problems, Reports Filed - Report by Roy Criswald ...

Operations: Present - None crq of bequip of new gattlin not refew elqua - viquid refew

Brief History -Roy's report claims by proper development property should stand Operations: Planned - Requires financing for development and milling.

Number Claims, Title, etc. - 10 claims unpatented. Title clear and · assessment annually taken care of.

Description: Topography & Geography - Rather rugged country essel to else to mineral Creek. To varegord to Typical desert country vegetation.

Mine Workings: Amt. & Condition - On No. 1 claim a shaft 75 ft. deep with 25 ft. drift at bottom. Several smaller shafts all in ore.

warrant putting up a mill of 25 tons capacity a day; a crushing and concentrating plant.

of qu'benego ero dguone at erent ench work development work - are strament

Geology & Mineralization - Altered metamorphosed schist porphyry and a large segment of lime laying above it.

Date

April 16, 1941 Ore: Positive & Probable, Ore Dumps, Tailings - Veins show 4000 ft. in length. nc yail to WM selim to - molface

west side of Mineral Creek. Mining District & County - Mineral Creek Dist. Pinal County

Dimensions and Value of Ore body - Numerous veins from 6 inch up to 40 ft. Assays ren from trace to 1 oz. in gold - from 3 to 70 ounces in silver - from $4\frac{1}{2}$ to 36% in lead and from 1 to 18% copper, but no samples taken to show average value across veins.

Mine, Mill Equipment & Flow Sheet - None

Principal Minerala - Gold, Silver, Lead

Road Conditions, Route - $2\frac{1}{2}$ miles from Ray. Road fair and can be easily made good. Mill: Type & Cap.

> Power: Amt. & Type beyoldma neki

> > Description: Topography & Geography - Rather rugged country

President, Owning Co.

Gon Mar.

Wine Supt.

Water Supply - Ample water for milling can be pumped to proposed mill, which should be located on property.

Brief History -Roy's report claims by proper development property should stand a 500-ton millinemooleved tot gairannit cottined - bennell tenoitered

Special Problems, Reports Filed - Report by Roy Griswald Colorado Springs, Colo.

bus reelo effit Janh 250 1927 emislo 01 - .oto .eltit .emislo redmuM
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Production Rate.

Remarks - From present development work done there is enough ore opened up to warrant putting up a mill of 25 tons capacity a day; a crushing and concentrating plant.

If property for sale: Price, terms and address to negotiate - For sale or lease. Typical desert country vegetation. See owner.

Wine Workings: Amt. & Condition - On No. 1 claim a shaft 75 ft. deep with 25 ft. drift at bottom. Several smaller shafts all in ore.

. COPY OF

brows wieds bos ancidentions REPORT OF THE TEXONA GROUP

every 100 feet in this tunnel crosscuts should run and assays should be made of

These properties are located about two and one half miles to the northwest of the town of Ray on the west side of Mineral Creek in the Mineral Creek Mining District, Pinal County, Arizona.

dopth but will also determine where the junction of those two veins is. At least

This group is composed of 10 claims or an area of about 240 acres of ground.

FORMATION FORMATION

The formation is altered of Metamorphosed schist porphyry and a large dyke of lime laying above these. The general trend is an easterly and westerly strike with veins having a dip to the North.

On the Gold Nugget No. 2 claims are several small veins, one of them about 6 feet of vein matter with from 6 inches to over two feet of quartz carrying good values. This vein has a porphyry hanging wall and a metamorphosed schist foot wall. Ore from this vein was sorted and then amalgamated over \$20 per ton in gold. The values ran from \$6 to over \$70 in gold per ton carrying from 4 ounces to 20 ounces in silver values. Tan. 25. 1927.

Other veins on this group are from 6 inches in width up to over 40 feet in vein matter in the main vein that is on the contact of this lime as a hanging wall, with Sulphide of Iron, Copper and Lead dissemilated all through the Matrix of the veins.

The assays from this vein have given returns of from a trace in gold to one ounce gold, from 3 ounces in silver to 70 ounces in silver values, from $4\frac{1}{2}$ per cent lead to 36% lead and 'from 1% copper to 18% copper values, but no samples have been taken across the veins to get the general values of the whole veins.

As from the percentage of the sulphides through the veins there are several places that it looks to have enough sulphide carrying the values to pay for concentrating them. All of the assays have been taken from stringers in the vein for a distance of about 4000 feet in length.

DEVELOPMENT WORK

There is a shaft on the 1914 No. 1 claim 75 feet deep with a drift 25 feet towards the lime or hanging wall, the entire dump is a lead sulphide ore.

There are several small shafts and drifts in these claims all in ore from a few inches in width up to 6 feet in width.

SUMMARY

To open these properties the shaft on the 1914 No. 1 claim which is down 75 feet should be sunk to not less than 500 feet, with crosscuts across the vein at every 100 feet in depth, as well as drifts ran on the vein, especially on the richest stringers in the vein, also while sinking and developing all of the works assays should be taken every foot of the development work.

On the Gold Nugget No. 2 shaft should be sunk where on the surface shows an ore body of over 20 feet in_width, also to the north west of this shaft in the bottom of the Gulch on the Gold King a tunnel should be run on the veins which here is over 45 feet in width, highly mineralized with some rich stringers of high grade lead and

(OOFY)

copper values in them. These two veins from the surface indications and their trend show that they will come together in depth and this tunnel will not only get good depth but will also determine where the junction of these two veins is. At least every 100 feet in this tunnel crosscuts should be run and assays should be made of every foot of the development work idone. These properties are located about

From the present development work done there is enough ore opened up to warrant putting up a mill of 25 tons capacity a day, a crushing and concentrating plant. The mill should be put on the property and water pumped from the Mineral Creek for its use. OAS Juede ic note no to entele Of to hesogmos at query aid?

From the widths of the vein on this group of claims, by the proper development work later it will produce enough ore to keep running a plant to treat not less than 500 tons production per day up to over 1000 tons daily.

voins having a dip to the North.

. selver values .

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Jan. 25, 1927.

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GEOLOGY OF THE RAY MINING DISTRICT BY JOSIAH EDWARD SPURR

The rocks in the Ray mining district have at the base a complex series of schists of both igneous and sedimentary origin, which after uplift and an immense period of erosion was covered by Paleozoic quartzite and limestone.

Probably near the close of the Cretacous, a great dome or batholith of granite resphyry worked upward into the schists, and ore deposition of disseminated primary lean copper-bearing sulphides, which later were to be concentrated by surface waters to form the ore deposits now being worked.

Tertiary land deposits overlie the Paleozoic sediments, so that this was a land surface during the Tertiary, and perhaps long before. Desert wash deposits alternate with lava flows and accumulations of volcanic ash; and the last deposit, of Pleistocene, was also a desert wash deposit.

Directly subsequent to the ore deposition, the first strong faulting occurred especially along a great nearly vertical fault (the Ray fault) which cuts north and south through the mineralized district; and the district occupied by the present major mining operations on the west side of the fault was uplifted, relatively to the country on the east side, perhaps one or two thousand feet. Erosion attacked the uplifted block and reduced it to the level of the other block, and Tertiary deposits of lava and desert wash were laid down upon the leveled country. Again, at about the end of the Tertiary, the same block (west of the Ray fault) was once more powerfully uplifted, probably upward of a thousand feet, and the uplifted area was again attacked by erosion, and the Tertiary rocks were stripped off. Later there was a general uplift of the whole region, and at the same time a reverse movement of a few hundred feet along the Ray fault, the block on the west this time subsiding, in contrast to its earlier repeated uplifts.

Summarizing the history from the point of view I wish to bring out, there was in this district an apparent lack of either igneous intrusion or important faulting, from pre-Cambrian to probably Cretaceous time; at the last named period came the granite porphyry and allied minor intrusions; and this was followed by surface volcanics (fed from dikes below) at intervals in the Tertiary. Heavy faulting followed close upon the granite prophyry intrusion and continued to the present, and therefore the general period of igneous activity and faulting coincided and the two were evidently connected as to origin; the main mineralized area had an upward movement or growth of at least three thousand feet, which growth occurred in two distinct and separate waves, and finally, in recent times, subsided a few hundred feet, I must lascribe this uplift of the fault blocks in question to the upward pressure of the igneous magma body which we know (from its intrusion) existed below, and its occurence in two distinct and separate waves indicates periods of accumulated pressure, which became strong enough to overcome the weight of the underlying rocks. It may be that each of these uplifts resulted in some volcanic discharge near this district, though not detected in it; and that therefore there was no further upheaval till the telluric pressure had been accumulated. Similarly, the very recent subsidence may be due to magma migration from below this block elsewhere, or to a discharge of the accumulating pressure in some nearby place, so that the weight of the block overcame the residual pressure exerted beneath. Therefore, recurrent periods of uplift of fault blocks, at Ray, or elsewhere are no irregular.

In some cases rocks have been shattered under strain, without definite persistent fissures having been developed. The main copper deposits at Ray, Arizona is an instance of this. For a belt whose horizontal length is over 12,000 feet, and whose horizontal width is from 1,000 to 3,000 feet, the Pre-Cambrain schists in this camp

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DEPARTMENT OF MINERAL RESOURCES STATE OF ARIZONA

MINE OWNER'S REPORT

4/16/41

| | | , | m | A |
|---|------|--------|-----|------|
| 1 | Mine | Jevona | .11 | nine |

3. Mining District & County Municial Creek Muning District - Pupal County

4. Former name

5. Owner Edw. a. Hughes.

7. Operator

9. President, Owning Co.

10. Gen. Mgr.

11. Mine Supt.

12. Mill Supt.

13. Men Employed

none. 18. Operations: Present

2. Location 2/2 miles N.W. of Tay.

n mat side of numeral Excel

6. Address (Owner) Box. 162 mesa -

23. Ceology & Mineralization

28. Brief History

8. Address (Operator)

9A. President, Operating Co.

14. Principal Minerals

15. Production Rate

16. Mill: Type & Cap.

17. Power: Amt. & Type

Requires Juneucing for development 19. Operations: Planned and mulling.

10 claims, impatented. Little slear 20. Number Claims, Title, etc. and assessment annually taken care of 19 1000000 .85

21. Description: Topography & Geography Wather rugged country Located close to mineral Creek Typical desert country orgalation.

22. Mine Workings: Amt. & Condition On No. 1. Claim a shaft 75 feet deep with 25 ft. drift at bottom. Reveral smaller shafts all in one.

(over)

| 23. Geology & Mineralization | altered metar | norphoxed Delin | it Pophyry and Paying above it |
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| | 0 0 | V | |
| 24. Ore: Positive & Probable, C | re Dumps, Tailings 1/2 | nis show 4000 | H. in length |
| | | | 3. Mining District & County |
| 24A. Dimensions and Value of | Ore body Mumerou | s wins from 6 | " up to 40 ft. |
| arrays run fr | on trace to 19 | 3. in gold - f | rom 3 to 70 mices |
| ni selm - | From 41/2 to 36 | To in lead an | alue aluna vaine. |
| 25 Mine Mill Environment & El | es laken to s | lin arriage V | alue alina varia. |
| ala ala | 14. Principal Minera | | 10. Gen. Mgr. |
| ur. | 15. Production Rate | | 17. Mine Supt. |
| -qi | 16 Mill: Tyge & Ca | Q. DOWN | Lair and HM SI |
| 26. Road Conditions, Route | 2/2 miles po | m May - man | 12. Mill Suphus rish ! |
| canh | Easely made | good. | 13. Nieu Employed |
| | | | |
| 27. Water Supply Aughl perpared mill | e water for mu - which whom | eling ear h | pumped to on perperty. |
| | | | 19 Operations: Planned |
| 28. Brief History Pane no | por claims a | kroper den | elop ment |
| 28. Brief History Came re | should stand | a soo ton n | rull. |
| | | | |
| 29. Special Problems, Reports Fil | led Report by Ran | y Griswald | 20. Number Claims, Title, etc. |
| | Colorado Sp | sings, Colo. | Jan. 25. 1927. |
| | | A STATE OF S | |
| 30. Remarks From fream | ent Lenlopme | et mok done In | here is Eurogh ne 25 tons capacity |
| spened up to w | arrant fulling | up a mill of | 25 tons capacity |
| a day, a crush | ing and ence. | ntrating plant. | |
| | | | |
| 31. If property for sale: Price, ter | | | TO ACT WE I'VE A TO THE COMMENT |
| In Rale- | - n lease Ree | amer. | 22. Mine Workings: Amt. & Con |
| 32. Signature. Edw. | a. Thughes - | Bry 162. Me | ra. |

33. Use additional sheets if necessary.

DEPARTMENT OF MINERAL RESOUR STATE OF ARIZONA MINE OWNERS REPORT Geology & Mineralization - Altered metamorphosed schist porphyry and a large

at eveds anivel omit Date donged April 16, 1941

Mine Texona Mine

Location - 22 miles NW of Ray on west side of Mineral Creek.

Mining District & County - Mineral Creek Dist. T. aggree or . aldaders & evidiacs toro. Pinal County

Former Name

Owner - Edw. A. Hughes

Address - Box 162, Mesa, Arizona

Dimensions and Value of Ore body - Numerous veins from 6 inch up to 40 ft. Assays Operator & mori - blog ml so I of sport mori Address

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. aniev escros eulsv empreva wcda

Gen Mgr.

Principal Minerals - Gold, Silver,

Mine, Mill Ebselvent & Flow Sheet - None

Mine Supt.

Production Rate.

Mill Supt.

Mill: Type & Cap.

Men Employed vilege ed aso bas rist back .vel Power: Amt. & Type of .sacifibaco back

be located on property.

Operations: Present - None

Operations: Planned - Requires financing for development and milling.

Water Supply - Ample water for milling can be pumped to proposed mill, which should

Brief History -Roy's report claims by proper development property should stand

Jan. 25, 1927

Number Claims, Title, etc. - 10 claims unpatented. Title clear and assessment annually taken care of. and amelders is required Coloredo Springs, Colo.

Hemarks - From present development work done there is enough ore opened up to Description: Topography & Geography - Rather rugged country and the transfer located close to Mineral Creek. Typical desert country vegetation.

See owner. Mine Workings: Amt. & Condition - On No. 1 claim a shaft 75 ft. deep with 25 ft. drift at bottom. Several smaller shafts all in ore.

If property for sale: Frice, terms and address to negotiate - For sale or lease.

Box 162, Mese, Artrone

DEPARTMENT OF MINERAL RESOU STATE OF ARIZONA MINE OWNERS REPORT

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Frincipal Minerals - Gold, Silver, Mine, Mill Equipment & Flow Sheet - None

Production Rate.

Mill: Type & Cap.

Mine Supt. MIL Bupt.

Gon Mar.

Road Conditions, Route - 21 miles from Ray. Road fair and can be easily made good.

Operations: Present - None

Water Supply - Ample water for milling can be pumped to proposed mill, which should be located on property.

Operations: Planned - Requires financing for development and milling.

Brief History -Roy's report claims by proper development property should stand a 500-ton mill.

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> SIGNED - Edw. A. Hughes Box 162, Mesa, Arizona