



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 AZMILS DATA

PRIMARY NAME: BUCKEYE MINE

ALTERNATE NAMES:

TROY MANHATTAN CU CO. PROP.

PINAL COUNTY MILS NUMBER: 135A

LOCATION: TOWNSHIP 3 S RANGE 14 E SECTION 27 QUARTER SW
LATITUDE: N 33DEG 08MIN 14SEC LONGITUDE: W 110DEG 54MIN 39SEC
TOPO MAP NAME: HOT TAMALES PEAK - 7.5 MIN

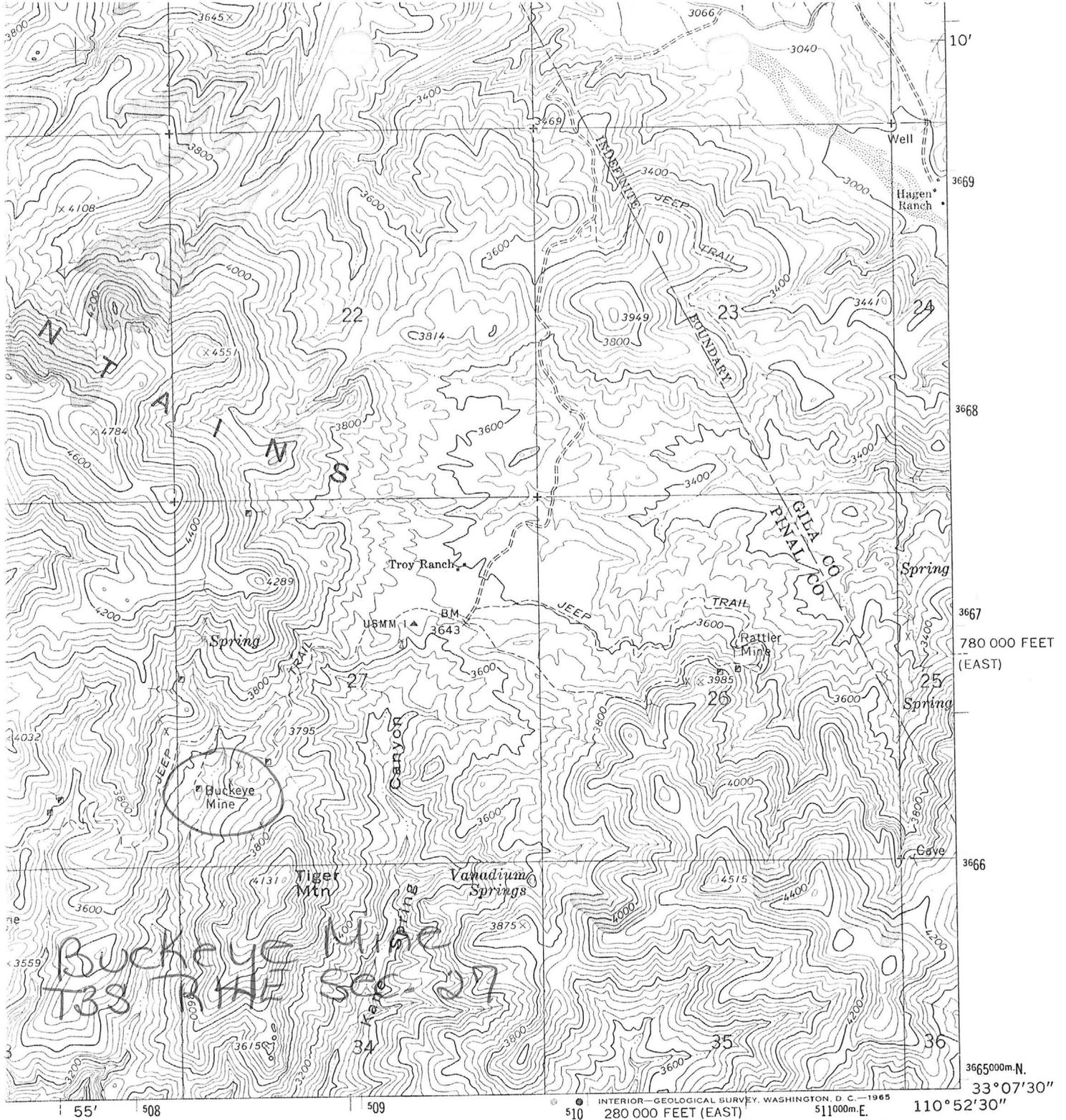
CURRENT STATUS: PAST PRODUCER

COMMODITY:

COPPER OXIDE
COPPER SULFIDE
SILVER
GOLD

BIBLIOGRAPHY:

ADMMR BUCKEYE MINE FILE
ADMMR TROY MINE FILE
ADMMR U FILE PINAL CU21 (USBM NO 463.2/15083)
RANSOME, F.L. RAY FOLIO 1923, P. 22
USGS MAP GQ 1021; 1971



1 MILE

ROAD CLASSIFICATION

- Heavy-duty —————
- Medium-duty - - - - -
- Light-duty - - - - -
- Unimproved dirt - - - - -
- State Route



SONORA, ARIZ.
NW/4 RAY 15' QUADRANGLE
N3307.5—W11052.5/7.5

1964

AMS 3850 III NW—SERIES V898

(HAYDEN)
3850 III SE

22
PL

ALICE
MANHATTAN
BUCKEYE
DAVIS SHART
REPORT OF MR. ROBERTS, ON KELVIN DISTRICT

May 9, 1907

TROY MANHATTAN DEVELOPMENT COMPANY

Closed down for lack of funds by the Development Company, who holds an option on the property. The original option expires on the 1st of June, but I understand from Mr. Ellwood, Secretary of the Development Company, that this option has been extended for a period of ten months. The original option was given with the understanding that the sum of \$5000 would be expended monthly during the period of eight months, and I understand also, that the extension has been given on the same condition.

The work on the mine is being carried on at present by the Development Company and Mr. Chapin, of Boston, is now on the way to meet Los Angeles capitalists on the 10th of the month at Phoenix. I understand that he is endeavoring to introduce new capital into the enterprise to carry on the work and eventually take over the property, the consideration being 51% of the capital going to the Development Company and the 49% being held by the original Troy Manhattan Copper Company, with the understanding that adequate reduction works, mills, smelters, etc. be erected by the Development Company.

As far as the ores at present available for shipping are concerned, there are two grades, one of which is heavy in iron and almost a pure magnetite, carrying very low in copper. The other of the class which has already been shipped, but I believe by hand sorting a higher grade of ore can be found.

In conversation with Mr. Adams, the chemist there, I learned that the condition of the Development Company is very unsatisfactory and that the former manager there, Mr. Eiman, is

greatly to blame for the low grade of ore shipped. Mr. Adams assures me that there is a large amount of ore that can be shipped in the neighborhood of 5 to 6% copper, with probably 15 to 20% lime, although in places this lime carries very high in Magnesia. He thinks that by mining a good body can be opened. At the present time there is very little available for immediate shipment.

The representative on the ground of the original Troy Manhattan Copper Company is Mr. Kavanaugh, and the Vice President of the Copper Company is Mr. Charles H. Barney, of 24 Milk Street, Boston, to whom all communications with reference to bond or option should be addressed, as Mr. Kavanaugh holds no power with which to issue or sign such deeds.

RAY COPPER COMPANY

The Ray Copper Company has recently been acquired by interests closely associated with the Utah Copper Company. The Vice President of the Company is Mr. Charles M. McNeil, President of the Utah Copper Co. The Manager is Phillip Wiseman, and Assistant Manager, Charles Cutting.

They have started work on the mine to develop it and are also taking out the old gasoline engines used in the power plant of their mill and will erect steam in place thereof. They

expect to have a concentrator running in about three months, when the grade of concentrates shipped will be very similar to those now being shipped by the Big Lead Mining & Smelting Company, having the average contents of about 26% Copper.

They are not in a position at this time to enter into negotiations for the treatment of their product, but at the time above stated, that is, about the 1st of August, they intend asking for quotations on their product.

BIG LEAD MINING & SMELTING CO.

They are operating their ten stamp mill on ore taken out in the process of the development of their mine. All ground yet entered has been ore bearing material and has averaged about 3% copper. Their work has been successful in so far that all work to date has been paid for by the receipts from the shipments of concentrates.

Mention was made to me by Mr. Dunlap in charge, in the absence of Mr. Twitchell, as to the high percentage of moisture given in the returns. He thinks that by a more careful work a lower figure would be more correct as these concentrates previous to shipment are exposed to the sun for about a week.

CALUMET COPPER COMPANY

Have been doing little work lately on account of internal trouble in the Company. The general grade of ore is lower than that they have been shipping and such ore as has been previously shipped is now almost entirely exhausted without very much more development than at present is being done.

KELVIN REDUCTION COMPANY

This plant is treating ores bought from the Big Lead Mining & Smelting Company, with which it is closely allied.

ARIZONA-HERCULES MINING COMPANY

Mr. Dunham complains of having to pay a higher rate on the same grade of ore than the Calumet Copper Co. These two companies are so closely associated and the men so well known and intimate, that the rates given to the one company are well known by the other.

The ground for this complaint is in the fact that on ores under 7% copper, the Calumet Copper Co. pays \$3.50 treatment, and the Arizona Hercules Mining Co. has to pay \$4.00, and on ores

R. H. RENFO.

Has thirty claims at the east end of the Troy Manhattan and as far as I can judge is a very favorable ore, the general tenor of which from several analysis, is as follows:-

10%	Copper
36%	Iron
28- 34%	Silica
2- 10%	Lime
trace	Magnesia

Owing to the fact that several options, and parties who wish to take options, are now pending, he is unable to ship some 100 tons of the above grade of ore which he has already mined. Already blocked out in the mine there is also about 500 tons of a similar class of ore, with probably a slightly lower percent of copper contents.

In taking up the matter with him I was endeavoring to bond his property on the following terms:

The bond to be a leasing bond for a period of two years, with option to purchase. 10% royalty to be paid. Final price of property to be \$150,000. All royalties paid to apply on final payment.

As soon as he has cleared up business now outstanding with other parties, he will give us a chance to take up his property on some one of the terms above mentioned.

I consider this property one of the best that is available in the district. The cost of packing the ore from his mine to

road made and owned by the Troy Manhattan Company, will be about \$1.50; thence to railroad by wagon, \$3.50. Mining should not cost more than \$2.00. Of course after the property has been examined more thoroughly it may be found better in the first place to make some kind of a road connecting the property with the present Troy Manhattan road.

SADDLE MOUNTAIN M. & S. COMPANY

Are continuing to operate their furnace on a mixture of sulphide and oxidized ores. From a casual examination of the mine whilst underground for some two and one half hours, it appeared to me that very little development work has been done in advance of actual mining and as they contemplate having in blast their new 500-ton furnace by the first of August, I do not see how they can keep the present plant as well supplied with ore without a shut down. But this matter was not in my field so I did not give it particular attention.

The management has been changed and Mr. Self will take charge some time this week. Mention was made by a Mr. Goodwin, who I understand is Purchasing Agent, that no adjustment of umpires has been made since February of this year.

The following figures which I was enabled through the courtesy of one of the clerks to get, will show the cost of last month's work.

* GENERAL REFERENCES

- REFERENCE 1 F1 < USGS GQ 1021, 1971 >
- REFERENCE 2 F2 < ABGMT-USGM FILE DATA >
- REFERENCE 3 F3 < ADMR TROY AND RATTLE FILES >
- REFERENCE 4 F4 < ABGMT CLIPPINGS FILE >

010< PRODUCTION INCLUDED UNDER TROY IN ABGMT-USGM FILE DATA >

1923.

F5< RANSOME, FL, USES GEOLOGIC ATLAS OF THE US. RAY FOLIO, MAP AND P. 22 >

units 135A

U.S. CRIB-SITE FORM

RECORD IDENTIFICATION

RECORD NUMBER B10 < _____ > *RECORD TYPE B20 < X, I, M > DEPOSIT NUMBER B40 < _____ >
 REPORT DATE G1 < 8, 2, 3 > *INFORMATION SOURCE B30 < 1, 2 > *FILE LINK IDENT. B50 < USGM-004 021 0203 >
YR. MO.
 REPORTER(SUPERVISOR) G2 < G E S T D O N E > (last, first, middle initial) (last, first, middle initial)
 REPORTER AFFILIATION G5 < ABGMT > *SITE NAME A10 < BUCKEYE MINE GROUP >
 SYNONYMS A11 < CLIMAX, TROY PROPERTY, TROY-ARIZONA >

LOCATION

MINING DISTRICT/AREA A30 < DRIPPING SPRINGS DISTRICT >
 COUNTY A60 < PINAL > *STATE A50 < AZ > *COUNTRY A40 < U.S. >
 PHYSIOGRAPHIC PROV A63 < 1, 2, 3 >
 DRAINAGE AREA A62 < 1, 5, 0, 5, 0, 1, 0, 0, 8, LOWER COLORADO >
 QUADRANGLE NAME A90 < SONORA > LAND STATUS A64 < 4, 9, 8, 1, 1, 9, 7, 9 >
 SECOND QUAD NAME A92 < (1, 9, 6, 4) > *QUADRANGLE SCALE A100 < 2, 4, 0, 0 >
 ELEVATION A107 < 3, 6, 0, 0, 4, F.T. > SECOND QUAD SCALE A91 < _____ >

JTM
 NORTHING A120 < 3, 6, 6, 6, 3, 2, 0 >
 EASTING A130 < 5, 0, 8, 2, 9, 0 >
 ZONE NUMBER A110 < 1, 1, 2 >

*ACCURACY
 ACCURATE ACC (circle)
 ESTIMATED EST Group CONSIST OF INTERCONNECTED
 TUNNELS AND CLAIMS, INCLUDING IN SW 1/4,
 SECTION 25

GEODETTIC
 *LATITUDE A70 < _____ N >
 *LONGITUDE A80 < _____ W >

CADASTRAL
 TOWNSHIP(S) A77 < 10, 0, 3, S, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1 > *RANGE(S) A78 < 0, 1, 4, E, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1 >
 SECTION(S) A79 < 27 >
 SECTION FRACTION(S) A76 < SW AND NW >
 MERIDIAN(S) A81 < GILA AND SALT RIVER >

POSITION FROM NEAREST PROMINENT LOCALITY A82 < ONE HALF MILE NW OF TIGER MOUNTAIN >
 LOCATION COMMENTS A83 < JTM IS LOCATION OF BUCKEYE SHAFT, OTHER SHAFTS IN GROUP ARE NORTH, EAST, AND WEST APPROX 1/4 MILE FROM BUCKEYE SHAFT. >

ESSENTIAL INFORMATION
 ESSENTIAL SOMETIMES OR HIGHLY RECOMMENDED

Y

COMMODITY INFORMATION

COMMODITIES PRESENT C10 < C, U, A, G, B, >
 ORE MINERALS C30 < CHALCOPYRITE, CHALCOHITE, NATIVE SILVER, NATIVE GOLD >
 COMMODITY SUBTYPES C41 < >
 GEN. ANALYTICAL DATA C43 < >
 COM. INFO. COMMENTS C50 < >

SIGNIFICANCE

<p>PRODUCER</p> <p>MAJOR PRODUCTS MAJOR < C, U, > MINOR PRODUCTS MINOR < A, G, A, U, > POTENTIAL PRODUCTS POTEN < > OCCURRENCES OCCUR < ></p>	<p>NON-PRODUCER</p> <p>MAIN COMMODITIES PRESENT C11 < > MINOR COMMODITIES PRESENT C12 < > OCCURRENCES OCCUR < ></p>
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*PRODUCTION

<p>PRODUCER</p> <p>PRODUCTION <input checked="" type="checkbox"/> (circle) PRODUCTION SIZE <input checked="" type="checkbox"/> SM <input type="checkbox"/> MED <input type="checkbox"/> LGE (circle one)</p>	<p>NON-PRODUCER</p> <p>PRODUCTION <input type="checkbox"/> UND <input type="checkbox"/> NO (circle one)</p>
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*STATUS

EXPLORATION OR DEVELOPMENT

<p>PRODUCER</p> <p>STATUS AND ACTIVITY A20 < 4 ></p>	<p>NON-PRODUCER</p> <p>STATUS AND ACTIVITY A20 < ></p>
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DISCOVERER L20 < >
 YEAR OF DISCOVERY L10 < > *NATURE OF DISCOVERY L30 < > *YEAR OF FIRST PRODUCTION L40 < 1903 > *YEAR OF LAST PRODUCTION L45 < 1951 >
 PRESENT/LAST OWNER A12 < >
 PRESENT/LAST OPERATOR A13 < >
 EXPL./DEV.COMMENTS L110 < OPERATORS INCLUDED TROY ARIZONA COPPER, TROY MANHATTAN COMPANY, TROY COPPER CO >

DESCRIPTION OF DEPOSIT

DEPOSIT TYPE(S) C40 < VEIN / SHEAR ZONE >
 DEPOSIT FORM/SHAPE M10 < >
 DEPTH TO TOP M20 < > *UNITS M21 < > *MAXIMUM LENGTH M40 < > *UNITS M41 < >
 DEPTH TO BOTTOM M30 < > *UNITS M31 < > *MAXIMUM WIDTH M50 < > *UNITS M51 < >
 DEPOSIT SIZE M15 < SMALL > M15 < MEDIUM > M15 < LARGE > (circle one) *MAXIMUM THICKNESS M60 < > *UNITS M61 < >
 STRIKE M70 < WNW > *DIP M80 < >
 DIRECTION OF PLUNGE M100 < > *PLUNGE M90 < >
 DEP. DESC. COMMENTS M110 < >

DESCRIPTION OF WORKINGS

Workings are: SURFACE M120 UNDERGROUND M130 BOTH M140 (circle one) *OVERALL LENGTH M190 < > *UNITS M191 < >
 DEPTH BELOW SURFACE M160 < 500 > *UNITS M161 < FT > *OVERALL WIDTH M200 < > *UNITS M201 < >
 LENGTH OF WORKINGS M170 < > *UNITS M171 < > *OVERALL AREA M210 < > *UNITS M211 < >
 DESC. OF WORK. COM. M220 < 3 LEVELS AND 150 FT SHAFT IN 1923, ONE LEVEL 100 FT LONG, SHAFT DOWN TO AT LEAST 500 FT IN 1920'S CLIMAX SHAFT 400 FT IN 1917 >

GEOLOGY

*AGE OF HOST ROCK(S) K1 < P, R, E, C, >
 *HOST ROCK TYPE(S) K1A < DIABASE, LIMESTONE, QUARTZITE >
 *AGE OF IGNEOUS ROCK(S) K2 < C, R, E, T, >
 *IGNEOUS ROCK TYPE(S) K2A < GRANODIORITE, RHYOLITE DIKES >
 *AGE OF MINERALIZATION K3 < C, R, E, T, >
 *PERT. MINERALS (NOT ORE) K4 < QUARTZ, SERICITE >
 *ORE CONTROL/LOCUS K5 < >
 *MAJ. REG. TRENDS/STRUCT. N5 < GRANODIORITE INTRUSIVES SURROUND MINE, WITH LARGE BODY 1/4 MILE NE OF MINE >
 *TECTONIC SETTING N15 < >
 *SIGNIFICANT LOCAL STRUCT. N70 < N5 TRENDING FAULT W OF MINE (661021) >
 *SIGNIFICANT ALTERATION N75 < >
 *PROCESS OF CONC./ENRICH. N80 < >
 *FORMATION AGE N30 < P, R, E, C, >
 *FORMATION NAME N30A < DESCAL LIMESTONE >
 *SECOND FM AGE N35 < P, R, E, C, >
 *SECOND FM NAME N35A < TROY QUARTZITE >
 *IGNEOUS UNIT AGE N50 < C, R, E, T, >
 *IGNEOUS UNIT NAME N50A < RATTLER GRANODIORITE >
 *SECOND IG. UNIT AGE N55 < >
 *COND IG. UNIT NAME N55A < >
 *GEOLOGY COMMENTS N85 < MINERALIZATION ASSOCIATED WITH GRANODIORITE INTRUSION, AT LEAST INTRUSION OPENED CHANNELS FOR MINERALIZATION IMMEDIATELY FOLLOWING >

GENERAL COMMENTS

GENERAL COMMENTS GEN < >