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: MAHONEY GOLD

ALTERNATE NAMES:
CHICAGO
NEW YORK
SAN FRANCISCO

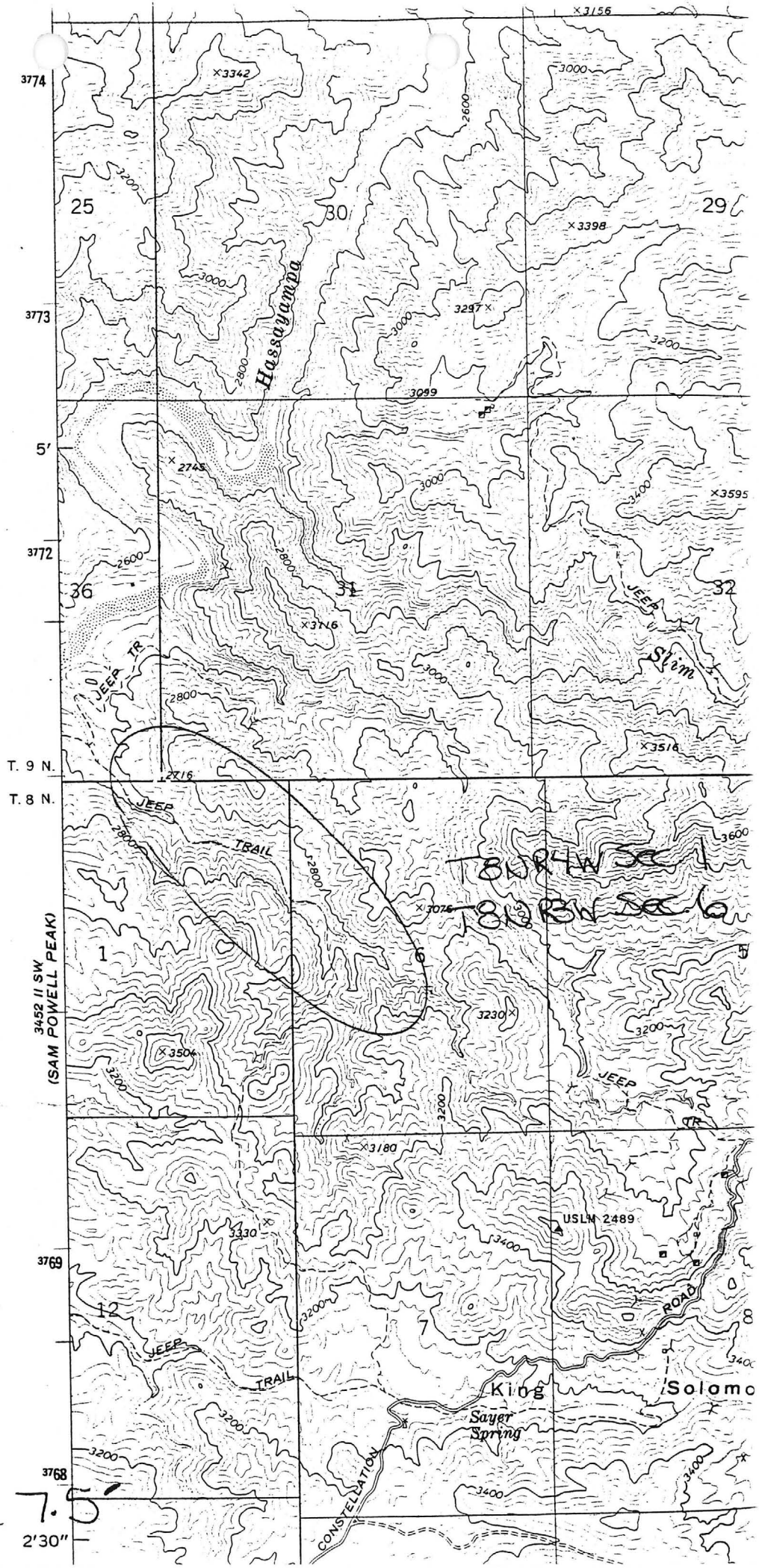
YAVAPAI COUNTY MILS NUMBER: 367

LOCATION: TOWNSHIP 8 N RANGE 3 W SECTION 6 QUARTER NW
LATITUDE: N 34DEG 03MIN 58SEC LONGITUDE: W 112DEG 36MIN 45SEC
TOPO MAP NAME: MORGAN BUTTE - 7.5 MIN

CURRENT STATUS: DEVEL DEPOSIT

COMMODITY:
GOLD
COPPER SULFIDE

BIBLIOGRAPHY:
ADMMR MAHONEY GOLD MINE FILE
BLM MINING DISTRICT MAP 256
ADMMR WICKENBURG MINES FILE P 20 (GENERAL)
CLAIM ALSO EXTENDS INTO E2SENE SEC 1 T8N-R4W



Morgan Butte 7.5

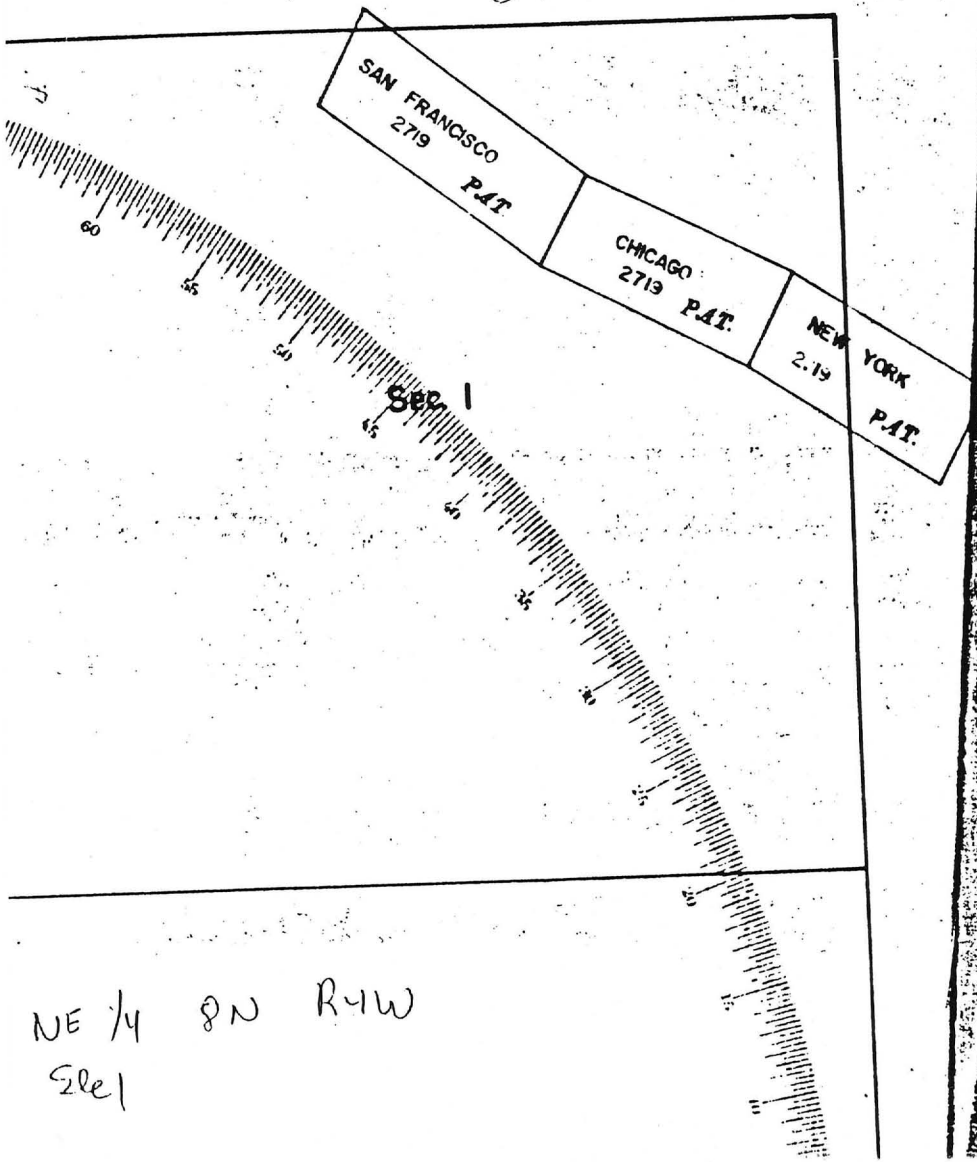
LM)

unty

SE 1/4 9N 4W

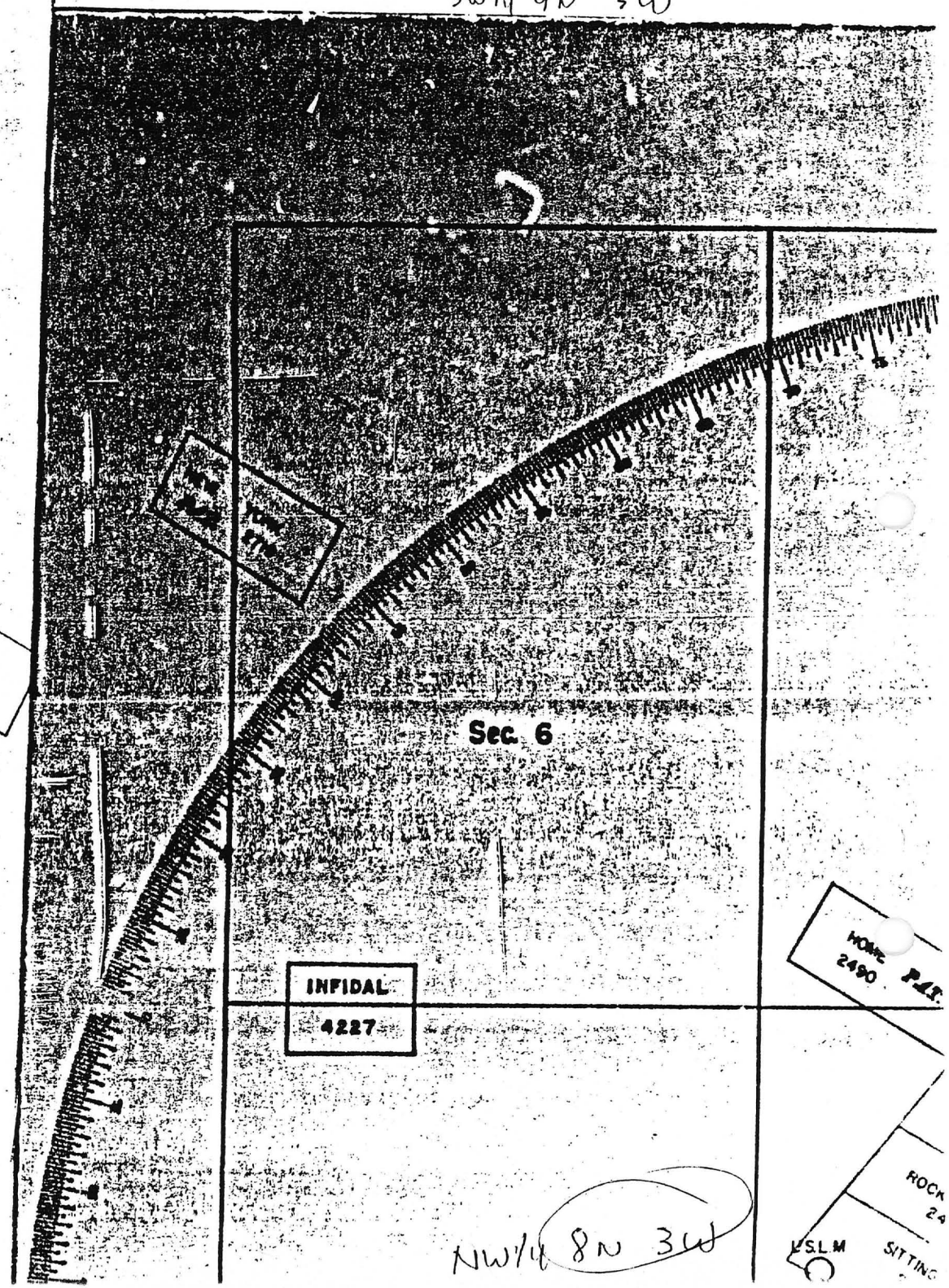
adit 4

8N 4W



NE 1/4 8N R4W
Sec 1

SW 1/4 9N 3W



NW 1/4 8N 3W

BLACK ROCK MINES LTD

Group

LOCATION

This group is ,situated near the Hassayampa River in Yavapai County,Arizona approximately seven mile up the River bed from Wickenburg, which is on the Santa Fe Railway.The group is eight miles east of Octave Mine last operated by the AS&RCO and two miles west of the Monte Cristo mine.The group consists of three patented claims-- New York,San Francisco and Chicago and eleventh locations. The general formation of the District is granite cut with intrusive porphyry dykes.The dikes on this property run east west generally. A large dyke cuts thru the center of the deposit.The granite is decomposed,oxidized and hevily impregnated with iron,with lime in some places,also quartzite,schist and gossin.The large porphyry dyke which runs thru the deposit dips to the south about 90° from vertical.

The mineralized zone from the surface showing appears to be from six to seven hundred feet in width at the west end and widens to more than 2000 feet near the east end and the length is about two miles.On the east end there is a large intrusion of monzonite porphyry which shows copper in places in the form of Azurite on the surface.

DEVELOPMENT

There is a 4 by 6 shaft down to the 435 foot level.There is a 300 foot tunnel crosscutting the shaft about 50 feet from the surface.There are two spurs from this tunnel of lesser lengths.The 2nd level is at a depth of 160 feet.This level crosscuts north 185 feet and south 35 feet all in the oxidized ore zone and no walls.The 3rd level is at the 260 feet point in depth.This level drifts east 200 feet with a side spur of 70 feet.The 4th level is at a depth of 360 feet and drifts 180 feet east and n north.The 5th level is at a depth of 435 feet with a crosscut south 175 feet where it cuts the porphyry dyke, and a drift east and west from the south end of the crosscut and on the south side of the dyke exposed a vein of red oxide ore.

Many samples were taken from the surface all showing gold and assaying from a trace to $4.00 per ton(at $20.67) A 1000 ton test made in 1907 from the surface tunnels and the crosscut on the 160 foot level gave a freemilling test of $3.60 per ton($20.67). Thetailings pile shows a loss of a little more than $1.00 per ton.

In all these surface workings bunches of Azurite,Malachite and Copper Glance were found,these always running well in gold,silver and copper. In the south crosscut on the 160 foot level 1000 lbs. of this class of ore assayed 288 ozs. in silver with some gold. On the 260 foot level 80 feet east of the shaft we encountered an unoxized boulder 30 feet thick. I assisted J.W.McCollum,President of the Company,take two 50lbs samples of the sulphide ore in this boulder with these results:

No.1 Gold $4.96 Silver 15.45 Ozs. Copper 12%

No.2 Gold $1.60 Silver 17.08ozs. Copper 12%

Several smaller bunches of sulphides were found in the lower workings,about 20 in a which were assayed and these averaged $18.00 in gold and silver and ran from 5% to 15% in copper.

I was foreman of the shaft work down to the 360 foot level.Many of the surface tunnels were run in 1907 and the shaft from the 360 to the 435 foot level was put down in 1916,and the south crosscut was run at that time.Chas.Isaacson was foreman at that time.Isaacson told me that along the crosscut from the 435 foot level considerable native copper was found, but these lowere workings were still in oxidised ore.On this crosscut the porphyry dyke appearing on the surface was cut about 170 feet from the shaft.The dyke was much wider at this depth and carried some copper.On the southside of this dyke a vein of red Oxidized ore was encountered and it assayed $23.50 per ton in gold (old price) and carried some copper glance in agranular form,but was not assyed for copper.The ore was panned showing grains of gold as large as wheat grains and some wire gold.

The miners who panned this gold ore say it will run from $25.00 to $30.00 per ton in gold (old price).The presence of native copper along this level indicated the near approach to sulphide ore.It is quite possible they will be reached in the next 100 feet.

CONCLUSION

In 1901 before anything in the way of development had been done,I examined this property and advised the sinking of a shaft to the five or six hundered levels.I pointed out to them that all large copper deposits were oxidised to a considerable depth.I advised them always to sink,and always against tunnels and drifts, but I did not have the say about the work to be done.I have always ~~against sinking tunnels and drifts~~ had the greatest confidence in the property that it would make one of the big producers of Arizona.And my confidence of the sureness of my belief has been strengthended as the development progressed.

Signed: H.H.Keays,Prescott,Arizona.Nov.18,1928.

Note: I had the pleasure of knowing Keays as he was a client of our office and his reputation for truth and veracity was the best.

J.Andrew West,Atty.,Box 844,Prescott, Arizona.

FROM THE REPORT OF J.W.RAGSDALE, MADERIA,CALIFORNIA,
MADE IN 1907. THE LOWEST WORKINGS WERE ON THE 160 LEVEL

BLACK ROCK MINES LIMITED,WICKENBURG,ARIZONA

GENTLEMEN:

"I spent the major part of my time examining the Chicago claim, especially as it is on this claim your work has been done so far,and the surface indications are marked more plainly on this particular claim. I have sampled the Chicago on the surface,and have several assays running from $1 to $2 in gold.There are also many surface indications of a large copper deposit.

"My examination consisted principally in going over the mineralized surface which appears to be 400 ft wide and about 3000 ft long. The formation appears to be of granite,decomposed,oxidized and heavily impregnated with iron,intermingled in different places with lime. There is a porphyry dyke running through the center of this zone,apparently the entire distance of 3000 ft.

"It will be necessary to do a considerable amount of work before the real value of the property is demonstrated.However,I am of the opinion that with sufficient development,it should make one of the big producing mines of Arizona.

Signed- J.W.Ragsdale M.E.
Maderia, Calif.

FROM THE REPORT OF C.N.LYNN M.E. ABERDEEN,SCOTLAND,MADE IN 1902
JUST AFTER COMPLETION OF THE 185 FT CROSSCUT ON THE 160 FT.LEVEL

"Your mineral claims are apparently the full regulation size, about 600 ft wide and 1500 ft long each.The formation is decomposed granite interspersed with lime in places,heavily oxidized with iron cappings. The porphyry dyke which runs through the property runs due southeast and northwest,dipping to the south from the mineralized zone which is according to surface indications,considerably over 300 ft wide and at least 2500 ft in length.

"You have in your development work at the 160 ft level encountered a very good grade of ore carrying gold,silver,copper,and I would advise by all means to sink a shaft at least 500 to 700 feet if necessary to open up the sulphide ore body,which the indications so far are sufficient to warrant proceeding with the work.

"Your mine to date is very similar to the Red Mountain Mine in Australia,which I had charge of for some time,and which developed into one of the big Australian mines.I am of the opinion that if your property was properly developed,by sinking shafts and crosscutting,you would have one of the greatest producers on the Pacific Slope.

"Your mineral deposit at the 50 ft level on the general indications as stated herewith,points to a very large deposit of copper with depth. The picked samples which I took assayed $325.50.

"This of course is not a fair criterion to go by as it was picked especially by me to find out the highest value you were able to encounter at that level.However,you have already a fair body of ore at this level which should more than pay the expenses of mining and milling though this is not advisable at this time as the more important thing to do is to sink your shaft and crosscut,blocking out your orebody.

Signed- C.N.LYNN M.E.
Aberdeen,Scotland

School of Mines, Kingston, Ontario

This is to certify that samples of ore marked as below and assayed for J.W.McCollum, gave the following results per ton 2000 lbs.

Gold $4.96 Silver 15.45 ozs Copper 15.0% valued at .12½¢

Signed - G.J.McKay, Assayer

Thomas Heys & Sons, Assay and Consulting Chemists, Toronto, Ont.

We certify that we have made an assay of ore marked No.1, received from you, finding as follows:

Gold	$1.65	Gold	0.82 oz	$16.94
Silver	2.50	Silver	43.66 "	35.33
Copper	23.61	Copper	15.24 %	61.81
	$27.76			$104.08

Gold	1.03
Silver	7.70
Copper	28.96
	$37.69

From F.J.Coleman, Phoenix, Arizona

Gold	$ 0.83	Gold	$ 19.63
Silver	1.20	Silver	142.55
Copper	2.00	Copper	117.60
	$ 4.03		$279.78

TO WHOM IT MAY CONCERN

I, E.N.Gibson, hereby certify that I worked at the Black Rock Mines Limited, under H.H.Keays as foreman down to the 360 ft level, under Chas. Isaacson as foreman, from the 360 ft level to the 435 ft. level. I know at the bottom of the shaft Isaacson cut thru the porphyry dyke at the 435 level. The dyke was 12 ft wide. On the south side of the dyke he cut thru a gold vein which I understood was 4 feet wide. I panned many samples of this ore and found much coarse gold. I have been mining for 30 years and consider this a splendid place to make a large mine. Mr. Kaiser a mining engineer examined the property just before they closed down. I never seen anything come out of the mine except the tools and oxidized and sulphide ores. The gold ore vein is on the upper side of the dyke. This shaft should be sunk to the 600 ft or 700 ft level.

Signed E.N.Gibson

Witnesses: E.C.Whitesitt
H.H.Keays

TO WHOM IT MAY CONCERN Glendale, Arizona Nov. 25, 1928

I, Chas. Isaacson, hereby certify that I sunk the shaft, on the Black Rock Mines, Limited, situated about 14 miles east of Wickenburg, Arizona, from the 360 ft level to the 435 ft. level, and drove a crosscut thru the porphyry dyke, and the crosscut was about 155 ft south of the bottom of the shaft, also, I drifted on the red oxide gold vein, at breast of this crosscut, about 60 ft on this level. All of the work was in ore, oxidized ore, with bunches of sulphides and copper glance and some native copper. At the southwest end of the crosscut, the drift or crosscut cut a red oxidized ore body 46 in wide. This ground was examined by Kaiser M.E. I held the light for him while he cut one sample across the gold vein and measured it. His copy of assay, which he mailed back to me, showed the ore run $23.50 in gold. It was free milling ore.

I have been mining many years and unhesitatingly say that I have no knowledge of a better place to make a mine than the Black Rock Limited. I consider it a large deposit and a little more depth will prove a big sulphide ore body.

At the time t ey closed the mine in 1916, I was told by McLean the super ntendent in charge, that they shut down because the Canaddan Gov't would not let any more money come out of Canada for mining, account of the

I have no hesistancy in recommending this group of claims to anyone who wants to make a real mine.The ground made more water as we went down with the shaft.The mine made about 2000 gallons each 24 hrs.Wesley Furbush and E.N.Gibson worked for me.

Witnesses; E.C.Whitesitt Signed - Chas.Isaacson
H.H.Keays

TO WHOM IT MAY CONCERN Wickenburg,Arizona Nov 25,1928

I,Wesley Furbush,hereby certify that I was employed by H.H.Keays, at the Black Rock Mines,Limited,situated 14 miles east of Wickenburg,as tool sharpener and hoist engineer from the 130 ft level to the 360 ft level and retained in the same capacity by Chas.Isaacson,during the time the work was continued to the 435 ft level and the drift and crosscuting done at that level.I know there was no change of formation below the 360 ft level,except more sulphides and more native copper and more water than above that level.I was there when Mr.Kaiser M.E. examined the ground. I personally examined the work below the 360 ft level including the 46 in vein of free milling gold ore.I know it panned rich in coarse gold. There was considerable amount of sulphide ore between the 360 ft and 435 ft levels.I also seen many specimens of native copper and copper glance.I have no interest in this group and make this statement voluntarily.The water increased as depth was gained.I have been mining since 1884 and consider this one of the best places to make a big mine I have ever seen.I think shaft should be sunk and quit scratching the surface.

Witnesses E.C.Whitesitt Signed - Wesley Furbush
H.H.Keays

PRELIMINARY REPORT OF THE BLACK ROCK MINES LIMITED

This group consists of 33 mining claims,which are so located as to cover the outcrop of this large deposit. Three of the said claims are patented,the other 30 are unpatented.The property is located about 14 miles north and a little east of Wickenburg,Yavapai County,Arizona.

GENERAL FEATURES

Most all of the work in the way of development,has been done on the patented group.The property has the advantage of a powerline crossing the group about 300 ft north of the shaft,and the Hassayampa river is just west of the west end of the group and will furnish plenty of water for all purposes.There are several sources of water for domestic use on the ground. There is a good road to the property,which connects the property with Wickenburg.About 1 mile of this road will need some repair before heavy machinery can be moved in,there are still a few things of value at the mine. The old mill building is still in fairly good condition.There are 2 old Huntington mills in the building and the old stands that held the amalgam plates,there is a station pump with 3 or 3½ in discharge,there is a 2 drill compressor but no air tank,a double cylinder hoisting engine with 450 ft of 3/4 in cable.There is a good gas engine,about 20 H.P.All this material seems to be usable.There are quite a few rails around the shaft,ore cars are missing.The shaft is cated and cannot be entered even from the tunnel.There is a fairly good house,6 men and a cook can be cared for therein.The road runs to the house and autos can drive down the wash to the river.There is little or no fuel on the property for domestic use.

GEOPHYSICAL REPORT OF THE BLACK ROCK MINES NOW KNOWN AS THE RED MT.GROUP

Report by Prof.Geo.C.Cady

These mines are northeast of Wickenburg,Arizona,a distance of 14 miles and consists of 21 mining claims,or 420 acres of mineral bearing land. (Since this report was made 12 more claims have been located which go with the entire deposit).

My first test was a setup of the instrument on the north side of the Honolulu claim.The indications for mineral were very good,but not so strong as the setup near the center of the Honolulu claim,where the instrument indicated a large strong body of mineral bearing ore.

The next test to the west was on the San Diego claim.This test was strong and no doubt a part of the same deposit of ore as was shown on the Honolulu claim.

The setup next made was on the west end of the U.S.claim and close to the large intrusive dyke that cuts the whole length of the group;at this pointthe mineral sounding was very strong.Climbing from this point of last setup just mentioned to the top of the mountain,my next setup was on the Valley claim.Here mineral indications were strong and indicate that the ore body extends to the contact line on the south.These conclusions were drawn from the fact that my instrument acts on a radius of 400 ft.

A setup was made on the Riverside claim near the cottonwood trees; here the mineral sounding was very strong.In crossing down towards the working shaft on the San Francisco and across the Watt claim the mineral seems to be stratified with the formation and more in the form of large veins of ore.It is probable that this stratified condition extends across the Carpenter and Lewis claims.

The next setup was on the east end of the U.S.claim.The mineral sounding was very good considering the fact that the test was made almost on the top of the mountain.at an elevation of more than 300 ft above the collar of the shaft on the San Francisco claim.

The next setup was on the San Francisco claim about 500 ft west of the shaft and near a series of quartz veins which crosscut the deposit north and south.At this point the mineral sounding was very strong,indicating heavy mineral deposit below the surface.Two readings were made on the Chicago claim east of the shaft;one near the side line of the Watt claim.The mineral sounding here was excellent.Another test further east was also over a body of mineral.

My next setup was near the center of the east end of the New York claim. This setup was the strongest reading I had,and indicating the center of a very large mineral zone.

A test was made on the side line of the Laura and the Charlotte;also two on the south side of the Blue Point claim.These connected with the large central deposit on the New York claim.My next setup to the east on the Powell claim was good,indicating there is plenty of mineral to be found there.

From al indications the eastern part of this group will produce the largest orebody and also the highest in mine metal values.The west end of this group has been proven by actual development of these ore bodies,of highly mineralized rich ores.

The whole group is more or less mineralized with mineral,and it is my judgment you have one of the big mines of Arizona,both in gold,silver and copper.In my geophysical tests of various mineral deposits,this group is one of the largest mineral deposits I have ever tested out.

One other feature,the test showed that all the mineral deposit carries good gold values.

Signed - Prof.Geo.C.Cady
Chicago,Illinois

Formerly with the Western Electric Co.

These tests were made Jan 25 ,26 and 27, 1929 with H.H.Keays and L.S.Williams being present and assisting in the work.

MINE DEVELOPMENT

(The underground work has been heretofore described in reports of H.N.Keays and others,therefore will omit same)

GEOLOGY

The orebody of this property occurs in a highly sheared and brecciated mass of altered granite,I did not have the time to go carefully into the matter of faults,fissures,etc.There are a number of igneous dykes,stocks and blowouts which have a general trend of lengthwise of the property,these dyke rocks are of great importance to this property,for at the time of these intrusions,the granite was crushed and highly altered,the said dykes are composed of diabase, monzonite,rhyolite porphyry and diorite.The porphyry is mostly in the form of large blowouts and might carry good gold values.The rholite seems to be dry unmineralized rock.The monzonites carry bodies of copper ore and possibly some gold and silver with it.The diabase does not seem to be mineralized at the surface,but I have no doubt but copper will be found in it in place.The diorite will be found to be a trap rock with little or no ore.The igneous dykes run in a northeasterly and southwesterly direction and generally north of the brecciated zone where the workings are located.I would say it would be well to thoroughly prospect the quartz porphyry blowouts near the north side of the property.It will hardly be possible for the whole rock mass in this great orebody to be mill ore as there are doubtless masses of rock that were not crushed enough to let the solutions which carried the minerals pass thru them,however,this cannot always be taken as a criterion,since the hot solutions do a lot of things not always shown on the surface,in any event it would seem to be enough tonnage in this great changed ore mass which is several thousand feet long by at least 400 ft wide,and more in places,to not mention the possibilities of monzonite and quartz porphyry zones on the north side of the dykes.

In conclusion,I wish to say,shoyld the sulphide zone show up as large as the oxidized orebodies above,the property will warrant an operation with steam shovels,and should furnish ore for a large mill for 75 years to come. I would therefore advise that the old shaft be cleaned and timbered and sunk to at least 800 ft,then crosscut the mass and drift east and west along the ore mass for 1000 to 2000 ft and crosscut at intervals of 300 ft.Of course diamond drilling work would be fairly reliable,but it would take a lot of work on so large a deposit,if the sulphide zones are found to be as good as the surface would seem to indicate,the property would soon need a 5000 ton capacity mill.

I would recommend therefore that you thoroughly prospect the property as it seems to warrant the expenditure of a considerable sum of money for this purpose.

When the shaft has been put in working condition,no doubt the ore from the vein at the botton of the shaft,running 46 in wide and assaying $25.50 per ton in free milling gold together with the 12 ft vein on the 160 ft level,which assays $12 per ton in free milling gold would furnish sufficient monet to continue the work of exploration until the large sulphide zone is opened up.

Respectfully submitted,

Geo.W.Bartholemew
Geological engineer

(Signed)

DEPARTMENT OF MINERAL RESOURCES
State of Arizona
MINE OWNER'S REPORT

Date Jan. 15, 1951

1. Mine: Mahoney Gold Mines
2. Location: Sec. Twp. 9 N Range 3 W Nearest Town Wickenburg
   Distance 16 Mi Direction S.W. Road Condition
3. Mining District & County: Blue Tank, Yavapai
4. Former Name of Mine:
5. Owner: N. H. Morrison
   Address: 137 S Central, Phoenix, Ariz.
6. Operator:
   Address:
7. Principal Minerals: Au. Cu.
8. Number of Claims: Lode Placer
   Patented Unpatented
9. Type of Surrounding Terrain: Rough, steep hills. sparse vegetation.

10. Geology & Mineralization: Granite cut by basic dykes & 3 fissae veins, Mahoney, Chicago & "X" vein minerals Hematite, Chalcocite, Gold.

11. Dimension & Value of Ore Body: Mahoney vein 3' wide. Chicago vein 6' wide contains no values on adit level.

12. Ore "Blocked Out" or "In Sight": None

Ore Probable: Questionable

13. Mine Workings—Amount and Condition:

	No.	Feet	Condition
Shafts	1	100'	Poor
Raises			
Tunnels		1000'	Good.
Crosscuts			
Stopes	1		Fair.

14. Water Supply: Sufficient for mining.

15. Brief History:

16. Signature:

17. If Property for Sale, List Approximate Price and Terms: