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05/04/87

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: BLUE ROCK

ALTERNATE NAMES:

LA PAZ COUNTY MILS NUMBER: 173

LOCATION: TOWNSHIP 3 N RANGE 18 W SECTION 16 QUARTER SE
LATITUDE: N 33DEG 35MIN 59SEC LONGITUDE: W 114DEG 07MIN 03SEC
TOPO MAP NAME: QUARTZSITE - 15 MIN

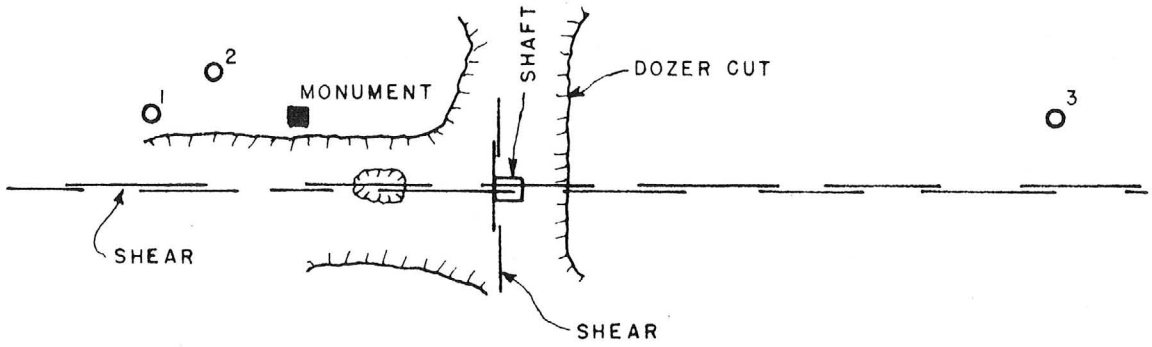
CURRENT STATUS: EXP PROSPECT

COMMODITY:

COPPER
GOLD
SILVER
STONE DIMENSION
MANGANESE
BARIUM

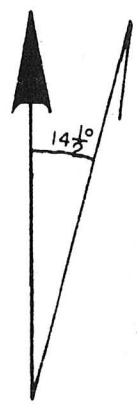
BIBLIOGRAPHY:

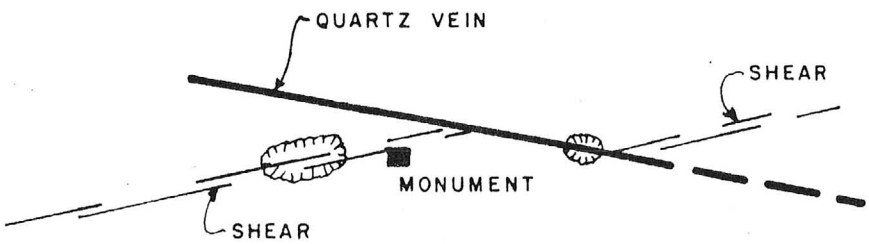
ADMMR BLUE ROCK MINE FILE
AZBM FILE DATA



NORTH VEIN

1" = 40'





SOUTH VEIN

1" = 40'

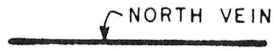
BLUE ROCK MINING COMPANY

DETAIL MAP, NORTH & SOUTH VEINS

16-3N-18W, YUMA COUNTY, ARIZONA

7-1-58

HARDROCK NO. 1



HARDROCK NO. 2

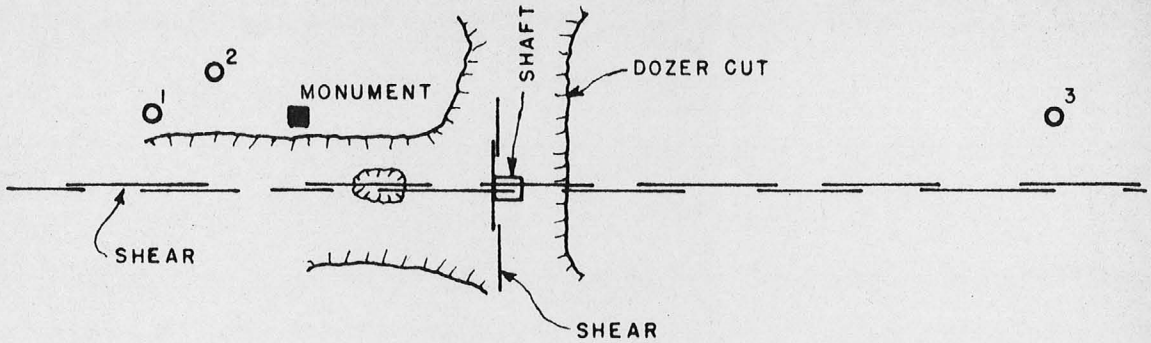
HARDROCK NO. 3

1" = 200'

7-1-58

BLUE ROCK MINING COMPANY

CLAIMS HELD BY STATE LEASE M-774
16-3N-18W, YUMA COUNTY, ARIZONA



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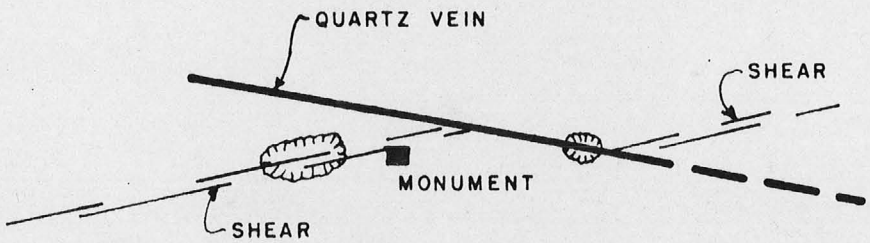
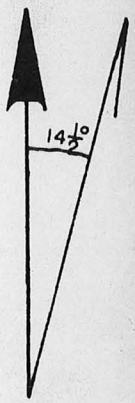




SOUTH VEIN

1" = 40'

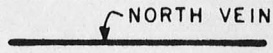
BLUE ROCK MINING COMPANY

DETAIL MAP, NORTH & SOUTH VEINS

16-3N-18W, YUMA COUNTY, ARIZONA

7-1-58

HARDROCK NO. 1



HARDROCK NO. 2

HARDROCK NO. 3

1" = 200'

7-1-58

BLUE ROCK MINING COMPANY

CLAIMS HELD BY STATE LEASE M-774
16-3N-18W, YUMA COUNTY, ARIZONA

BLUE ROCK MINE YUMA COUNTY

Childs reported that he plans to do some work, probably next week, on the Blue Rock prospect. A short while back he said he had found some silver copper mineralization in a quartz vein near to the original discovery which is in schist. He plans to open this showing up. Memo LAS 5-1-63 Interview with B.A. Childs

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MILS 173

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine	Blue Rock Mine	Date	Jan. 9, 1958
District	Plomosa District - Yuma County	Engineer	Lewis A. Smith
Subject:	Supplementary Report by B. A. Childs		

Location: Sec. 16, T3N, R18W. 8 miles southeast of Quartzsite - west side of Plomosa Mts.

Claims: 4

Owners: Blue Rock Mining Co. - B. A. Childs, Pres. , 1913 W. Georgia St., Phoenix (277-1527)

Recent drilling (2 holes - 125 feet deep) has disclosed that the vein is 1½ feet wide at a depth of 100 feet. W. S. Meader is the driller. Samples of the ore are being run and the results will be reported to the Department when they come in. Mr. Childs reported that 2 more holes will be sunk to intercept the vein at a depth of 200 feet. The two drilled holes are 80' apart on same line. He states that the vein material contained very good copper along with some native silver.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine	BLUE ROCK MINE	Date	September 9, 1957
District	Plomosa District, YUMA COUNTY	Engineer	Lewis A. Smith
Subject:	Supplementary Report		

B. A. Childs, Supervisor
1913 W. Georgia Ave., Phoenix.

Mr. Childs reports that further development has proven the No. 1 shear to a depth of 14 feet and a length of 50'. Two samples were taken across the mineralized area as follows:

(A) 2½' wide - (East end):
Silver 67 oz.
Gold 0.10 oz.
Copper 10%

(B) 2' wide (West end):
Silver 70 oz.
Gold 0.35 oz.
Copper 18%

He has accumulated about 15 tons of ore which averages about $95.00 per ton.

Farther west he has disclosed the presence of two additional "shoots" which have ~~barely~~ been scratched up to now.

He plans to contract a few diamond drill holes, in order to prospect the shear in depth. However, the No. 1 shoot is now beginning to develop a definite hangwall so that the deposit may prove to be a vein.

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

Date 6-28-57

1. Mine: Blue Rock (~~Mining Co.~~)
2. Location: Sec. 16 Twp. 3 N Range 18 W Nearest Town Quartzite
   Distance 8 miles Direction SE Road Condition Fair (partly cat road)
3. Mining District & County: Plomosa District
4. Former Name of Mine: New Prospect
5. Owners B.A. Childs, Alliton Cushman, Leo Childs (President)
   Address: 1913 West Georgia Ave., Phoenix Ariz.
6. Operator: Blue Rock Mining Co. (B.A. Childs, supervisor)
   Address: 1913 West Georgia Ave., Phoenix, Arizona.
7. Principal Minerals: Embolite, chrysocolla, Cuprite, Malachite, Barite, Quartz, Brochantite, Psilomelane, Mclaconite.
8. Number of Claims: 3 Lode X Placer
   Patented Unpatented X
9. Type of Surrounding Terrain: Flat tongue of low foothills penetrating west slope of Plomosa mountains. These mountains rise abruptly to southeast and northwest in bold relief. The lower tongue is part of a pass through the middle of the mountains.
10. Geology & Mineralization: Pre Cambrian quartzite and schists resting on mica granite. These rocks locally are cut by shears and shattered quartz veins. Shears contain fragments of mica and quartz ~~mica~~ and chlorite schists. Veins (or shears) reopened twice. Silver and Au, later than copper, followed by chalcedonic silicification which may have accompanied the silicification. Quartz contains hypogene chalcopyrite and may have been the mineralizing medium.
11. Dimension & Value of Ore Body: 2 veins, 300 ft apart and parallel, ranging from 2" to 2' in width. These veins narrow at top, but widen with depth from 2" to 20". The ore lies in flat bulges along shear strike (like peas in pod) Veins consist of foot wall gouge zone, central breccia core (highest grade ore), and a hanging wall impregnation zone (6" to 8" wide) carrying most of the embolite and chrysocolla. [High grade center (6" sample) runs more than 600 oz. ag and more than 20% Copper with $2.00 in gold]. Will be able to evaluated deposit with more depth.

12. Ore "Blocked Out" or "In Sight": None of consequence as get Orange limonite gossan overlies known ore. This is prevalent in bands along side of quartz veins. May be indicator of ore, and, since it is prevalent, this may indicate possible ore occurrence. The quartz veins appear to be the "feeder" for the shear zones.

Ore Probable: Fair prospect. Little depth will tell possibilities, especially since ore zone widens materially as exposed

13. Mine Workings—Amount and Condition: The property is now being developed

	No.	Feet	Condition
Shafts			
Raises			
Tunnels			
Crosscuts			
Stopes			

by 3 bulldozer cuts (10' deep) with some narrow cuts.

14. Water Supply: Haul water

15. Brief History: Began work about 1 month ago (5-28-57) Doing assement work Claims well marked

16. Signature: B.A. Childs (operator).

17. If Property for Sale, List Approximate Price and Terms: No terms now.

DATE: March 1958

REPORT ON BLUE ROCK MINING PROPERTY

LOCATED NEAR QUARTZSITE, ARIZONA

by

Lester H. Moffatt, Secretary
421 Eastwood
Fort Worth 7, Texas

Blue Rock Mining Corp.

Leo Childs - Pres.
B. A. Childs - Vice Pres.
Wm. Decker - Treas.
Lester H. Moffatt - Sec'y.

I. INTRODUCTION

The Blue Rock Mining Company property consists of six claims located near Quartzsite, Arizona in Yuma County. Three of these claims, which encompass the ore discoveries, have been patented and Arizona Mining Lease #M774 has been granted. Three adjoining claims have been filed but patents have not been completed.

In late '56 or early '57 an old prospector discovered the outcroppings of three ore veins on the surface of this property. Assays of surface samples showed the ore to contain extremely high concentrations of silver and copper (as high as 627 oz. Ag per ton and 24% Cu). A representative of a group of Texas business and professional men bought the rights to this property from this prospector and filed claim with the Arizona State Land Office. This group then incorporated in Arizona as the Blue Rock Mining Company for the purpose of exploiting this discovery.

Exploratory operations to date by the Blue Rock Mining Company have culminated in a drilling program which has shown the continuation of one of the veins down beyond 90 feet with a thickening trend. It has also shown essentially no change in tenor of the vein material at this depth from that near the surface (approximately $ 150 per ton total mineral value).

II. DESCRIPTION AND LOCATION OF PROPERTY

To get to the Blue Rock Mine, take Arizona State Highway 95 from Quartzsite and go one mile south. At this point turn east off the highway and proceed on dirt road seven miles to the Blue Rock site. For your further information, Quartzsite is located at the intersection of Arizona State Highway #95 and U. S. 60 - 70 (Blythe, California - Phoenix Highway).

Three parallel ore veins outcrop on the surface of the property for a visible length of approximately 150 ft. The ore has a characteristic blue-green color from which the mine has derived its name. It consists principally of Argentite, Chalcopyrite and other copper mineral forms. The veins are spaced approximately 600 feet apart north and south and they strike east and west. The Number 1 vein dips north at 15° from the vertical. The Number 2 vein appears very similar to No. 1, but the No. 3 vein is mingled with other surface material and is not sharply defined like No. 1 and No. 2. There are heavy quartz veins close to the ore sheets and the country rock is pre-Cambrian schist. The No. 1 and 2 veins average 1½ ft. thick at the surface.

III. RESULTS OF EXPLORATORY PROGRAM

(a) SURFACE ANALYSIS

Initially, samples were selected from several pieces of the ore outcroppings. All of these showed extremely rich silver and copper content. One of these, assayed by J. W. Sharpe at Wickenburg, Arizona on 4/8/57, showed 627 ounces of Silver per ton and 24.2% Copper. Another, assayed by Crismon & Nichols in Salt Lake City, Utah on 1/21/57, showed 527 oz. of Silver per ton, 22.8% Copper and .13 oz. Gold per ton.

In order to get a more representative evaluation of the tenor of the typical vein material, a two hundred pound sample was cut through the total thickness of the vein at 8 ft. depth. This was then ground up and a third of it was sent to each of three smelters in the Arizona area. The smelters said that they would pay ~~[illegible]~~ $136 per ton ~~net~~ GROSS for shipping ore of this tenor. This was in the summer of 1957.

(b) DRILLING PROGRAM

Several holes were drilled in each of the three veins using a percussion drilling rig drilling at an angle of 20° from the vertical, dipping to the south. With a 15° from vertical dip to the north for the vein this gave a 35° included angle between the drill and the vein. The results of their drilling were as follows: All drill sample assays were made by the Arizona Assay Office in Phoenix, Arizona on report dated January 17, 1958.

NO. 1 VEIN

Drill Depth	Drill length through vein	Vein thickness	Oz. Silver per ton	% Copper	Total Value Silver .90/oz. Cu. .20/lb.
0		1½ ft.			$90-$136 ~~$[illegible]~~/ton
50 ~~50~~ 30 ft.	10 ft.*	5.8 ft.*	18.8	5.6	$ 39/ton
75 ~~70~~ ft.	10ft. *	5.8 ft *	84.8	9.4	$115/ton
100 90 ft.	10 ft.*	5.8 Ft.	136	9.1	$160/ton

* NOTE: Due to the difficulty of determining the precise boundaries of the vein by the percussion drilling method all drill

samples were taken over a ten foot length of drill cuttings at the 90 ft. depth straddling the vein. From observation of the cuttings it appeared that the thickness of the vein encompassed the full 10 feet of the sample. However, it was observed that the vein thickness along the drill was considerably less than the 10 ft. length of the sample in the case of the 30 ft. and 70 ft. depths. Therefore, it is likely that the apparent lower tenor of these samples is actually an indication of vein thinkness proportionately less than the 5.8ft. spanned by the drill sample. In other words, if the actual thickness of the vein at 70 ft. were 4½ feet the tenor would be 5.8/4.5 x $115 or $148 per ton. Also, if the actual thickness of the vein at 30 ft. depth were 2½ feet, as appeared likely, the tenor would be 5.8/2.5 x $39 = $90 per ton. In each case in the above table the sample which was actually assayed consisted of all of the drill cuttings for a full 10 ft. length cut through the vein along the drill direction including the vein material and the barren material on each side of the vein.

NOS. 2 AND 3 VEINS

Two holes were drilled in the No. 2 vein at depths of 60 and 90 feet and one 50 ft. hole was drilled on the No. 3 vein. In each case traces of the same ore were found but they were not continous enough to establish the location and boundaries of the veins. It appears that the drill holes did not reach the veins.

IV. CONCLUSIONS

From the preceding data the following conclusions appear justified:

a. The average grade of the shipping ore is high (approximately $150/ton at current prices).

~~b. The tenor of the vein material remains essentially constant down to the greatest depth tested (90 feet).~~

c. The Number 1 Vein shows a thickening trend with increasing depth, going from 1½ft. thick at the surface to 5.8 ft. thick at 90 ft.

d. The limits of the No. 1 ore body have not been defined. It appears reasonable to expect that it extends much deeper than the 90 ft. depth which has been verified.

e. Results of drilling on the No. 2 and 3 veins are inconclusive. Further drilling will be necessary to evaluate these veins.

b. The tenor of the vein material shows a richening trend with increasing depth down to the greatest depth tested (90 feet).