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PRINTED: 12-14-2006

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: BUGLER MINE

ALTERNATE NAMES:
PATENTED CLAIMS MS 3001

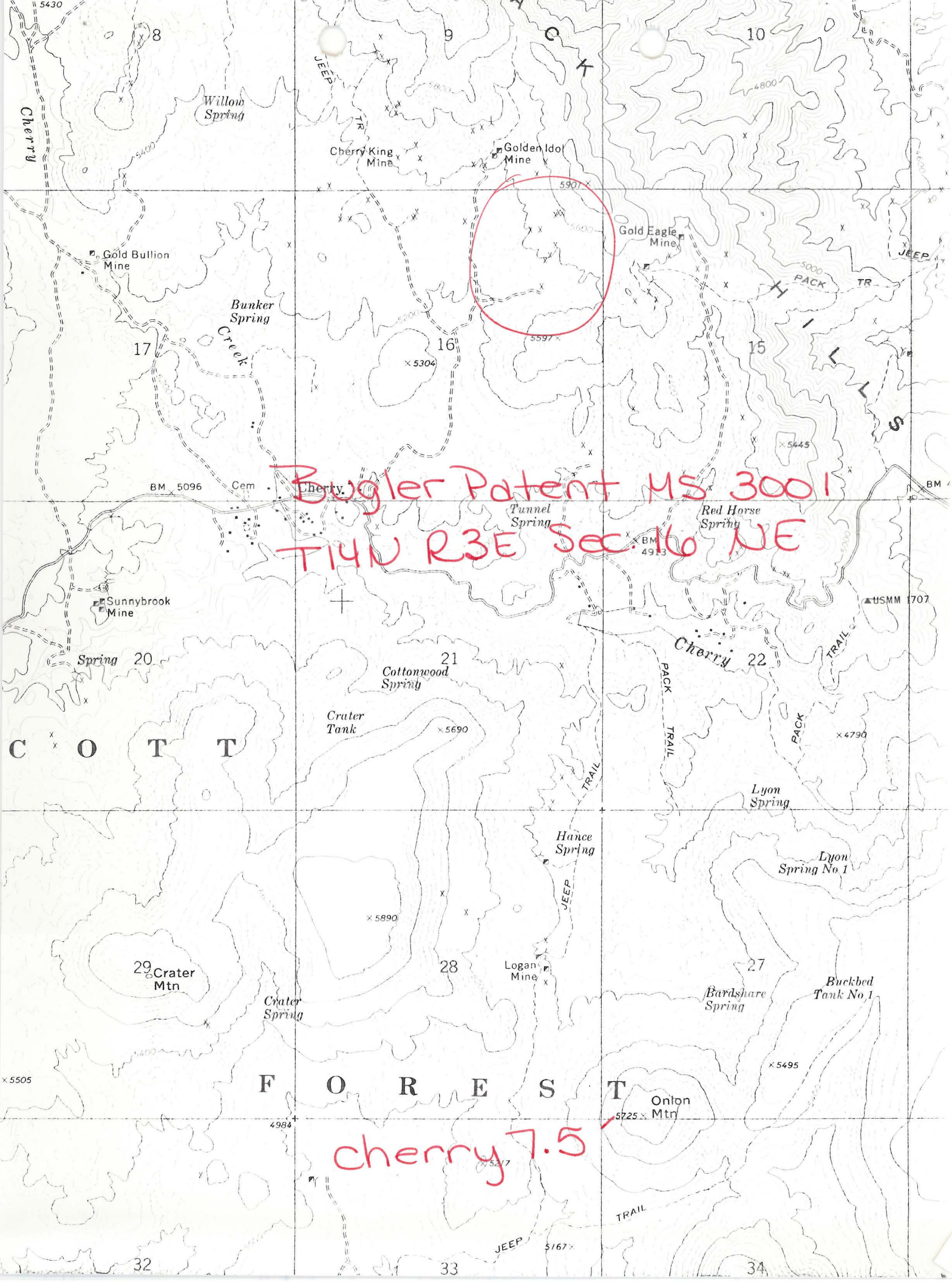
YAVAPAI COUNTY MILS NUMBER: 676C

LOCATION: TOWNSHIP 14 N RANGE 3 E SECTION 16 QUARTER NE
LATITUDE: N 34DEG 36MIN 08SEC LONGITUDE: W 112DEG 01MIN 38SEC
TOPO MAP NAME: CHERRY - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
GOLD LODE

BIBLIOGRAPHY:
USGS CHERRY QUAD
BLM MINING DISTRICT SHEET 82
ADMMR BUGLER MINE FILE
WEED, W.H. THE MINES HANDBOOK VOL XI 1912
P 74
CLAIMS EXTEND INTO SWSWSW SEC. 10, SESESE
SEC.9 & NWNWNW SEC. 15



Bugler Patent MS 3001
T14N R3E Sec. 16 NE

cherry 7.5

* GENERAL REFERENCES

REFERENCE 1 P1 <U.S.G.S. PP. 308

REFERENCE 2 P2 <USGS Bull 1324-C

REFERENCE 3 P3 <USGS Bull 1147-A, pg A-46

REFERENCE 4 P4 <ABGNT- USBM FILE DATA

U.S. CRIB-SITE FORM

RECORD IDENTIFICATION

RECORD NUMBER B10 <_____>

REPORT DATE G1 <8.1.10>
YR. MO.

RECORD TYPE B20 <X, I, M>

INFORMATION SOURCE B30 <1.3>

DEPOSIT NUMBER B40 <_____>

FILE LINK IDENT. B50 <USBM 004 025 0360

REPORTER(SUPERVISOR) G2 <LARABA PETER
(last, first, middle initial)

<DEWITT, ED
(last, first, middle initial)

REPORTER AFFILIATION G5 <ABGNT

*SITE NAME A10 <_____>

BUGLER MINE

SYNONYMS

A11 <_____>

LOCATION

MINING DISTRICT/AREA A30 <CHERRY CREEK DISTRICT

COUNTY A60 <YAVAPAI

STATE A50 <A.2>

COUNTRY A40 <U.S.>

PHYSIOGRAPHIC PROV A63 <1.2.F.

DRAINAGE AREA A62 <1.5.0.6.0.2.0.2.F.

LAND STATUS A64 <0.0.F.>

QUADRANGLE NAME A90 <CHERRY (1.9.7.3.)>

QUADRANGLE SCALE A100 <2.4.0.0.0.>

SECOND QUAD NAME A92 <_____>

SECOND QUAD SCALE A91 <_____>

ELEVATION A107 <1.5.6.0.0.F.T.>

UTM

NORTHING A120 <3.8.2.8.9.0.0.>

EASTING A130 <4.0.5.6.2.0.>

ZONE NUMBER A110 <+1.2>

*ACCURACY

ACCURATE ACC (circle)

ESTIMATED EST

GEODETIC

LATITUDE A70 <_____N>

LONGITUDE A80 <_____W>

CADASTRAL

TOWNSHIP(S) A77 <0.1.4.N.>

RANGE(S) A78 <0.0.3.E.>

SECTION(S) A79 <16>

SECTION FRACTION(S) A76 <NE

RIDIAN(S) A81 <GILA AND SALT RIVER

POSITION FROM NEAREST PROMINENT LOCALITY A82 <2 MILES NE OF CHERRY, ARIZONA

ADDITIONAL COMMENTS A83 <_____>

ADDITIONAL INFORMATION

VALUABLE SOMETIMES OR HIGHLY RECOMMENDED

COMMODITIES PRESENT C10 < AM. P.G.

ORE MINERALS C90 < GOLD

COMMODITY SUBTYPES C41 <

GEN. ANALYTICAL DATA C43 <

COM. INFO. COMMENTS C50 <

	PRODUCER									
MAJOR PRODUCTS	MAJOR < 1 A U < < < < < < < < < < >									
MINOR PRODUCTS	MINOR < 1 A G < < < < < < < < < >									
POTENTIAL PRODUCTS	POTEN < < < < < < < < < < >									
OCCURRENCES	OCCUR < < < < < < < < < >									

MAIN COMMODITIES PRESENT C11

MINOR COMMODITIES PRESENT C12

OCCURRENCES OCCUR

PRODUCTION YES (circle) PRODUCTION SIZE SML MED LGE (circle one)

PRODUCTION UND NO (circle one)

STATUS AND ACTIVITY A20<4>

STATUS AND ACTIVITY A20<1>

DISCOVERER	L20			
YEAR OF DISCOVERY	L10		NATURE OF DISCOVERY L30	(B)
		YEAR OF FIRST PRODUCTION L40	1942	YEAR OF LAST PRODUCTION L45
PRESENT/LAST OWNER	A12	HG ALLEN (1942)		
PRESENT/LAST OPERATOR	A13			
EXPL./DEV.COMMENTS	L110			

DEPOSIT TYPE(S)	C40 <u>VEIN</u>			
DEPOSIT FORM/SHAPE	M10 <u>TABULAR</u>			
DEPTH TO TOP	M20 <u> </u>	* UNITS M21 <u> </u>	* MAXIMUM LENGTH M40 <u> </u>	* UNITS M41 <u> </u>
DEPTH TO BOTTOM	M30 <u> </u>	* UNITS M31 <u> </u>	* MAXIMUM WIDTH M50 <u> </u>	* UNITS M51 <u> </u>
DEPOSIT SIZE	M15 <u>SMALL</u> M15 <u>MEDIUM</u> M15 <u>LARGE</u> (circle one)	* MAXIMUM THICKNESS M60 <u>6</u>	* UNITS M61 <u>FT</u>	
STRIKE	M70 <u>N20E</u>	* DIP M80 <u>40W</u>		
DIRECTION OF PLUNGE	M100 <u> </u>	* PLUNGE M90 <u> </u>		
DEP. DESC. COMMENTS	M110 <u> </u>			

Workings are: SURFACE M120 UNDERGROUND M130 BOTH M140 (circle one)

DEPTH BELOW SURFACE M160 *UNITS M161

LENGTH OF WORKINGS M170 620 *UNITS M171 FT

DESC. OF WORK. COM. M220

*OVERALL LENGTH M190 620 *UNITS M191 FT

*OVERALL WIDTH M200 1704 *UNITS M201 FT

*OVERALL AREA M210 1550 *UNITS M211 50 FT

* AGE OF HOST ROCK(S) K1< P.R.O.T. K.4/PS ZIRCON EQUAL TO OR GREATER THAN 1740 MI.: 1-NYEARS

* HOST ROCK TYPE(S) K1A< QUARTZ DIORITE

* AGE OF IGNEOUS ROCK(S) K2< P.R.O.T. K. AS LINE K1

* IGNEOUS ROCK TYPE(S) K2A< QUARTZ DIORITE

* AGE OF MINERALIZATION K3< P.R.O.T. K. AS LINE K1

* PERT. MINERALS (NOT ORE) K4< QUARTZ

* ORE CONTROL/LOCUS K5< FAULTING

* MAJ. REG. TRENDS/STRUCT. N5< DIKES TREND N40E

* TECTONIC SETTING N15<

* SIGNIFICANT LOCAL STRUCT. N70<

* SIGNIFICANT ALTERATION N75< NONE

* PROCESS OF CONC./ENRICH. N80< OXIDATION AT NEAR SURFACE

* FORMATION AGE N30<

* FORMATION NAME N30A<

SECOND FM AGE N35<

SECOND FM NAME N35A<

* IGNEOUS UNIT AGE N50< P.R.O.T. K. AS LINE K1

* IGNEOUS UNIT NAME N50A< CHERRY QUARTZ DIORITE (INFORMAL

SECOND IG. UNIT AGE N55<

SECOND IG. UNIT NAME N55A<

GEOLOGY COMMENTS N85< QUARTZ VEIN IN QUARTZ DIORITE

GENERAL COMMENTS GEN 

* GENERAL REFERENCES

REFERENCE 1 F1 < U.S.G.S. PP 3 GEOL MAP >

REFERENCE 2 F2 < ABGMT- USBM FILE DATA >

REFERENCE 3 F3 < >

REFERENCE 4 F4 < >

U.S. CRIB-SITE FORM

RECORD IDENTIFICATION

RECORD NUMBER B10 < > RECORD TYPE B20 < X.I.M. > DEPOSIT NUMBER B40 < >

REPORT DATE G1 < 8.1.1.0. > INFORMATION SOURCE B30 < 1.2. > FILE LINK IDENT. B50 < USBM 004 025 0791 >

REPORTER(SUPERVISOR) G2 < LARABA PETER > (last, first, middle initial) (DEWITT ED) (last, first, middle initial)

REPORTER AFFILIATION G5 < ABGMT > SITE NAME A10 < GOLD LOBE MINE >

SYNONYMS A11 < GOLD LOBE AND INDEPENDENCE >

LOCATION

MINING DISTRICT/AREA A30 < CHERRY CREEK DISTRICT >

COUNTY A60 < YAVAPAI > STATE A80 < A.Z. > COUNTRY A40 < U.S. >

PHYSIOGRAPHIC PROV A63 < 1.2. >

DRAINAGE AREA A62 < 1.5.0.6.0.2.0.2. >

QUADRANGLE NAME A90 < CHERRY > (1.9.7.3.1.) LAND STATUS A64 < 0.0. >

SECOND QUAD NAME A92 < > (1. > QUADRANGLE SCALE A100 < 3.4.0.0.0. >

ELEVATION A107 < 5.8.0.0. > SECOND QUAD SCALE A91 < >

UTM

NORTHING A120 < 3.8.0.6.8. >

EASTING A130 < 4.0.4.7.3. >

ZONE NUMBER A110 < 1.1.2. >

*ACCURACY

ACCURATE ACC (circle)

ESTIMATED (EST) < >

GEODETIC

LATITUDE A70 < > N

LONGITUDE A80 < > W

CADASTRAL

TOWNSHIP(S) A77 < 0.1.4.N. > RANGE(S) A78 < 0.0.3.E. >

SECTION(S) A79 < 09 >

SECTION FRACTION(S) A76 < SW >

MERIDIAN(S) A81 < GILA AND SALT RIVER >

POSITION FROM NEAREST PROMINENT LOCALITY A82 < 1 MILE N OF CHERRY ARIZONA >

LOCATION COMMENTS A83 < UTM IN THE MIDDLE OF THREE CLAIMS; UTM TAKEN TO BE MIDDLE OF SW QUARTER OF SECTION 9 >

ESSENTIAL INFORMATION

ESSENTIAL: SOMETIMES OR HIGHLY RECOMMENDED

COMMODITY INFORMATION

*COMMODITIES PRESENT C10 < C.U. F.A.U. AG. >
 *ORE MINERALS C30 < GOLD >
 COMMODITY SUBTYPES C41 < >
 GEN. ANALYTICAL DATA C43 < >
 COM. INFO. COMMENTS C50 < >

* SIGNIFICANCE

PRODUCER
 MAJOR PRODUCTS MAJOR < A.U. >
 MINOR PRODUCTS MINOR < A.G. F.C.U. >
 POTENTIAL PRODUCTS POTEN < >
 OCCURRENCES OCCUR < >

NON-PRODUCER

MAIN COMMODITIES PRESENT C11 < >
 MINOR COMMODITIES PRESENT C12 < >
 OCCURRENCES OCCUR < >

* PRODUCTION

PRODUCER
 PRODUCTION (YES) (circle) PRODUCTION SIZE (SMALL MED LGE) (circle one)

NON-PRODUCER

PRODUCTION UND NO (circle one)

* STATUS

EXPLORATION OR DEVELOPMENT

PRODUCER
 STATUS AND ACTIVITY A20 < H >

NON-PRODUCER
 STATUS AND ACTIVITY A20 < >

*DISCOVERER L20 < >
 *YEAR OF DISCOVERY L10 < > *NATURE OF DISCOVERY L30 < B > *YEAR OF FIRST PRODUCTION L40 < 1907 > *YEAR OF LAST PRODUCTION L45 < 1936 >
 *PRESENT/LAST OWNER A12 < >
 *PRESENT/LAST OPERATOR A13 < B. BOYER W. GODAC >
 EXPL./DEV. COMMENTS L110 < >

DESCRIPTION OF DEPOSIT

*DEPOSIT TYPE(S) C40 < VEIN >
 *DEPOSIT FORM/SHAPE M10 < TABULAR >
 *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 < > *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)
 *DEPTH BELOW SURFACE M160 < > *UNITS M161 < > *OVERALL LENGTH M190 < > *UNITS M191 < >
 *LENGTH OF WORKINGS M170 < > *UNITS M171 < > *OVERALL WIDTH M200 < > *UNITS M201 < >
 *DESC. OF WORK. COM. M220 < > *OVERALL AREA M210 < > *UNITS M211 < >

GEOLOGY

*AGE OF HOST ROCK(S) K1 < P.R.O.T. > *U/PB ZIRCON EQUAL TO OR GREATER THAN 1740 MILLION YEARS
 *HOST ROCK TYPE(S) K1A < QUARTZ DIORITE >
 *AGE OF IGNEOUS ROCK(S) K2 < P.R.O.T. > *AS LINE K1
 *IGNEOUS ROCK TYPE(S) K2A < QUARTZ DIORITE >
 *AGE OF MINERALIZATION K3 < P.R.O.T. > *AS LINE K1
 *PERT. MINERALS (NOT ORE) K4 < QUARTZ >
 *ORE CONTROL/LOCUS K5 < FAULTING, SHEARING >
 *MAJ. REG. TRENDS/STRUCT. N6 < >
 *TECTONIC SETTING N15 < >
 *SIGNIFICANT LOCAL STRUCT. N70 < >
 *SIGNIFICANT ALTERATION N75 < NONE >
 *PROCESS OF CONC./ENRICH. N80 < OXIDATION AT NEAR SURFACE >
 *FORMATION AGE N30 < >
 *FORMATION NAME N30A < >
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 *SECOND FM NAME N35A < >
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 *IGNEOUS UNIT NAME N50A < CHERRY QUARTZ DIORITE (INFORMAL) >
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 *SECOND IG. UNIT NAME N55A < >
 *GEOLOGY COMMENTS N85 < QUARTZ VEIN IN QUARTZ DIORITE >

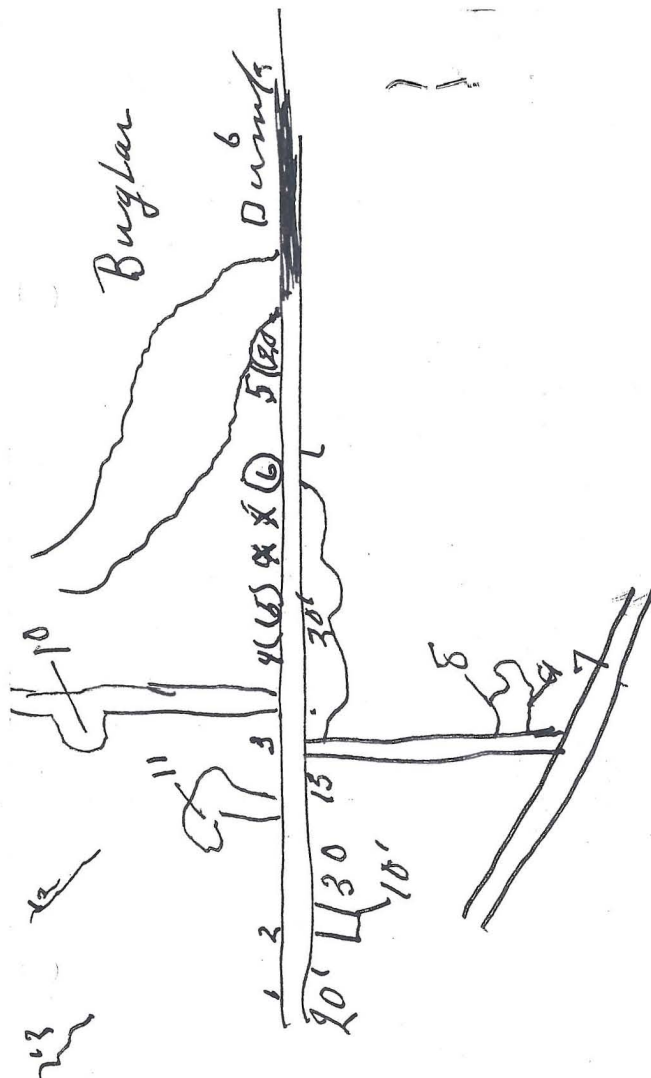
GENERAL COMMENTS

GENERAL COMMENTS GEN < >

MS. .12
.03

Buy. .12
.17
.54
.20
.05
.44 Drump.
.15
.31
.10
.44
.38

11 290 24
22
70



Cherry Mining District
E. north.

Buglar Mine

2 M. N.E. Cherry.

at 5000'

Vain - Contact
Granite Haining
Jat. Rockbury.

North - 20 - East -
Dip 40 West -
Our average - 3-6

Net

57,300 Lbs.

net
0.8 - Per ton

72 - 23-15

81 1/4 Celica

29920 Lbs. 1.01 - 32.44

68920 .66 - 21.20

86.7 Silica

71.440 .94 - 30-19

86. + S-

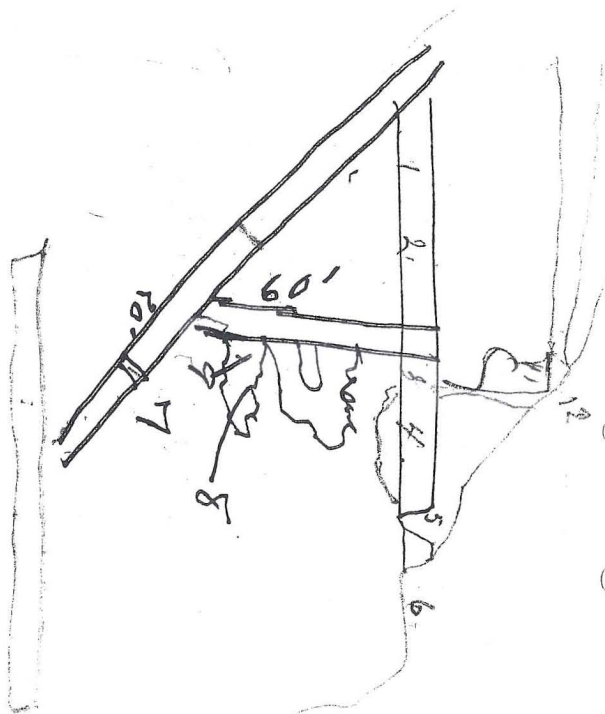
48.920 .66 21.20

84.7 C

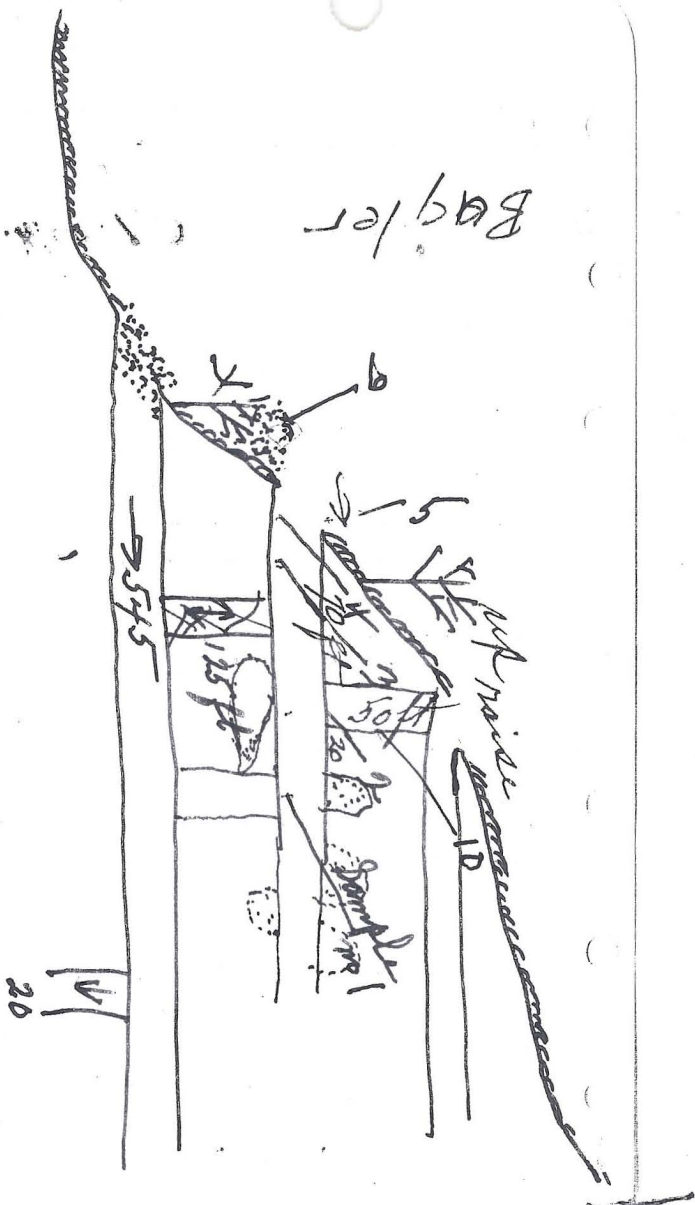
63.0200 #

180 + tone - .75 1/5 - 25-63

Buglar Shipments



Bagler



T₂

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

Date 5-18-46

1. Mine: Bagler
2. Location: Sec. Twp. 14N Range 3E Nearest Town Cherry
Distance 2M Direction SW Road Condition Good
3. Mining District & County: Cherry Creek Yavapai
4. Former Name of Mine:
5. Owner:
Address:
6. Operator:
Address:
7. Principal Minerals: Au.
8. Number of Claims: Lode Placer
Patented Unpatented
9. Type of Surrounding Terrain:
10. Geology & Mineralization: strike 11 20E Dip 40W
width 3-6
Granite HW contact porphyry FW
11. Dimension & Value or Ore Body:

13-5
Yavapai

46

12. Ore "Blocked Out" or "In Sight":

Ore Probable:

13. Mine Workings—Amount and Condition:

No.	Feet	Condition
Shafts.....		
Raises.....		
Tunnels.....		
Crosscuts.....		
Stopes.....		

14. Water Supply:

15. Brief History:

16. Signature:

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

15- Patented
2

REPORT ON THE
ARIZONA COPPER-GOLD MINES COMPANY
Located in The
CHERRY CREEK MINING DISTRICT, YAVAPAI COUNTY, ARIZONA.

By H. P. Dickinson,
Mining Engineer.

To Mr. Pierce Underwood,
Hartford Building,
Chicago, Ill.

Dear Sir:

Complying with your request, I have visited and examined the above properties, and herewith submit for your consideration the following report:

LOCATION:

These properties lie about fifteen miles east from Humbolt, a station on the main line of the Santa Fe, Prescott & Phoenix, Railroad, at which place is located the thoroughly modern smelting plant of the Arizona Smelting Company.

From Humbolt to the properties of the Arizona Copper-Gold Mines Company, is a first class, well kept county wagon road over which the heaviest loads can, without difficulty, be hauled at all times of the year.

TITLES, AREA
AND NAMES OF CLAIMS:

The holdings of the Arizona Copper-Gold Mines Company consist of seventeen (17) full claims (600 feet by 1500 feet) and the Prize Mill Site, comprising a total area of 357 acres. The names of the claims are Redcloud, Washburn, Leghorn, Little Johnnie, O. K., Royal, Gold Lode, Independence, New York, Pittsburgh, Todd King, Bugler, Anaconda, Tapper, True Vein, Standard, Prize, and Prize Mill Site. Titles to the Leghorn and Prize* claims and the Prize Mill Site are vested in United States Patents, while titles to the other fifteen claims are by right of location. There has been, however, sufficient work done on all these groups to entitle the Company to Government Patents for each and the steps necessary for obtaining these Patents are to be at once taken.

There are no disputes, adverses or counter claims to any of this ground.

The location of these several claims, their relation to each other and to the Mill Site will be fully understood by reference to the Attached Map.

The Company is entirely free from debt and there are no incumbrances whatso ever against the property.

* Falls

GENERAL CHARACTERISTICS OF THE VEINS:

The ore veins of all these claims have the same general characteristics, namely, a practically north-and-south strike, with a dip of 45 degrees from the horizon. The outcrop is traceable for hundreds of feet along the surface but is in places covered with eroded debris from the mountain sides above. The veins are essentially true fissures in granite and vary in width from about 18 inches to 36 inches at the surface, to over 6 feet at a depth of 368 feet (at the bottom of the Leghorn shaft). The vein filling is quartz, more or less broken up and heavily impregnated with the oxides of iron and copper. The oxidized zone extends down to a depth of approximately 200 feet, while below this level the sulphides of copper and ^{iron} are coming in in large quantities.

GEOLOGY:

The country rock of this whole district is granite, through which, in many places, strong dikes of porphyry have been intruded. The country immediately surrounding the vicinity of the mines is of the same general character, the country rock being granite, Syenite and Gneiss, with porphyritic intrusions, and is drained by numerous small creeks and water courses, tributaries of Cherry Creek.

DEVELOPMENT:

The principal development, aside from the mill, which is described later, is on the Leghorn, the Bugler, and the Gold Lode claims.

On the Leghorn, an incline shaft has been sunk on the vein to a depth of 368 feet. 140 feet from the surface, a level 135 feet long has been run in to the north on the vein. At 200 feet from the surface, a level 150 feet in length has been driven on the vein, also to the north. At 260 feet another level, now in 14 feet, has been started, while at the bottom of the shaft, 368 feet from the surface, another level has been started and driven north on the vein for a distance of 20 feet. These levels are all in ore. The shaft is well timbered and fully equipped with a 40 H. P. friction hoist, track, skip, cable and all necessary appliances for sinking to a further depth of 1500 feet. The equipment also includes a first class 40 H. P. boiler and a No. 4 Cameron Pump, ample for handling all the water that will come into these workings for a long time. The machinery on the surface is covered by a good, tight building, and here is also located a boarding house for the men employed at this mine. See photographs numbered 1 - 2 - 3 - 4 - 5 - 6.

On the Gold Lode claim an incline shaft has been sunk to a depth of 214 feet. (See photograph numbered 7). This is directly on the vein all the way down. Intersecting this shaft at a depth of about 40 feet below the surface an adit, 51 feet in length, has been run and at this level there is a small stope from which 120 tons of ore have been taken out. This ore was treated at the Company's mill and gave an average return of \$12.00 per ton. At the bottom of this shaft a level, 56 feet in length, has been run in on the vein, the average

value of which is amply sufficient for profitable extraction.

The Bugler is developed by two tunnels, driven directly on the vein and connected by an upraise 135 feet in height. The upper tunnel is 100 feet long and the lower one 520 feet. Both these tunnels show ore for their entire length and the vein, varying in width from one to four feet, is strong, in place and uninterrupted by faults or slips. (See photographs numbered 8 and 9).

Development of the other claims, consisting of shafts, drifts and winzes, largely for purposes of exploitation and the necessary assessment work, is as follows: On the Redcloud 270 feet; Washburn 50 feet; Little Johnnie 140 feet; O. K. 350 feet; Royal 36 feet; Independence 100 feet; New York 190 feet; Pittsburgh 50 feet; Todd King 130 feet; Prize 80 feet; Anaconda 20 feet; Tapper 20 feet; True Vein 20 feet; Standard 20 feet.

On the Prize Mill Site, (see map and photographs numbered 10 - 11 - 12 - 13), is located the Company's thoroughly modern ten stamp mill. This mill is at present equipped with two 5-stamp batteries (Gates Iron Works); three Frue Vanners; and 80 h. p. boiler and an 80 h. p. Corliss engine, together with crusher, automatic feeders and all other necessary appliances. In this mill can be treated at least 50 tons per day of the ores coming from the various mines belonging to the Company. Situated as it is, directly on the bank of Cherry Creek (see WATER), there is no question of ample water supply at all times and the mill is admirably arranged for the economic handling of ore delivered to it, the entire operation being by gravity.

In addition to the mill building, there are here located the superintendents house, assay office, boarding house, stables, corrals and other buildings necessary for the comfort of the Company's employees. (See photograph numbered 44).

MINING FACILITIES:

FUEL: For this there is ample supply of timber and the last four claims enumerated above, namely, the Anaconda, Tapper, True Vein, and Standard, while located and held as mineral land, are covered with excellent timber and their chief present value to the Company is as a source of supply for both fuel and mine timbers. Close proximity to the California oil fields, together with the excellent transportation facilities afforded by the A. T. & S. F. and the S. F. P. & E. railroads, makes oil the logical fuel for use here. A good grade of fuel oil can be laid down at the Company's mill for \$2.62 per barrel (see "Recommendations & Remarks.")

Water Supply.
MINE TIMBERS: For domestic purposes there is, within 100 feet of the Company's boarding house, a well, (with pump) of most excellent water, (see photograph numbered 15) while the springs forming the head waters of Cherry Creek are located on the mill site, (see photograph numbered 16), about 100 yards above the mill. Cherry Creek is also fed by numerous streams from the mountains adjacent and during the last thirty years has never been dry in summer or frozen over in winter. ~~is the Company owns this Water Right is~~

As the Company owns this Water Right it is assured of an ample supply for all its operations. The Creek has a fall of over 40 feet within the lines of the Company's property and by properly conserving the supply, considerable power can be generated at very small expense, sufficient, at any rate, for lighting the mill and all adjoining buildings. (See "Recommendations & Remarks").

SUPPLIES: Hardware, powder, steel, candles, and all mining supplies can be had at the usual prices, with freight from Prescott (30 miles distant) added. There is considerable farm produce grown in the Cherry Creek Valley and this can be obtained at very reasonable cost. In addition, the Company owns a fine orchard and garden tract, where various fruits, potatoes, corn and other vegetables are grown at small expense, materially adding to the comforts of the men and lessening the cost of maintenance.

LABOR: Miners' daily wages are \$3.50 for hand work and \$4.00 for machine men; trammers \$3.00 to \$3.50; mine blacksmith \$3.50 to \$4.00; common top labor \$2.50 to \$3.50; Teamsters \$60.00 to \$75.00 per month.

ORE TONNAGE IN SIGHT AND VALUE THEREOF: In the Leghorn claim there are approximately 4652 tons of ore in sight, having an average value of \$27.18 per ton. This ore is blocked out by the shaft and the several levels and gives a valuation of \$126,441.36. For the sake of conservatism, cut these figures by one third, and there is still in the Leghorn mine, ready for extraction and reduction at the Company's mill \$84,304.24 worth of ore. This gross and figuring the cost of mining, hauling and milling, the net profits exposed in the Leghorn workings (on a basis of two thirds the ore actually in sight) amount to about \$50,000.00.

In the Gold Lode claim the ore so far exposed can be figured at approximately 1787 tons, having an average value of \$4.13 per ton, net, giving the total value of ore in sight at \$7,379.31. This claim has not yet been sufficiently developed to properly open up its ore but, for the amount of work that has been done, the showing is remarkably good and I am satisfied that further work here will be very profitable.

In the Bugler claim a conservative estimate of the ore in sight is 10,800 tons, having an average value of \$5.21 per ton and giving a total valuation of \$56,268.00.

SUMMARY, RECOMMENDATIONS, AND REMARKS: It will be understood from the foregoing data that the properties of this Company are grouped in four divisions, all of which are tributary to the mill and are readily accessible over good mountain wagon roads. Most of the development has been done on the Leghorn, which has, by its production and present satisfactory status, amply repaid the efforts devoted to it. The Bugler and Gold Lode veins are both clearly defined fissures with granite walls, are well mineralized, and will, in my judgement, well repay further exploitation.

Opportunity exists for the building of a tramway from the various mines to the mill, as the mines themselves are all considerably higher than the top of the mill. I do not think, however, that the time is

yet ripe for the very considerable expenditure that the installation of a tram will necessitate for the reason that the mill, with its present capacity of 50 tons per day, can be kept well supplied with ore by teams. The ore wagons in common use hold about six tons to the load and by purchasing four of these wagons, each with its complement of four horses, and having each wagon make two trips per day, which it can easily do, the mill can be kept running to its full capacity and the bulk of the money expended during the next year can be used in the further development of the properties already opened up.

I would not at this time recommend or advise any addition to the mill equipment, because the development of the Company's property, particularly on the Leghorn, has reached a point where the ores are even now changing from the oxidized ores of the upper levels to the sulphides which are almost invariably encountered as depth is gained. Appliances suitable for the reduction of the oxidized ores are not adapted to obtaining the best results in concentrating the comparatively low grade sulphides.

I would therefore, recommend that the mill be run to its capacity upon the ores now available, but that its further equipment to be postponed until development shall determine exactly the character of the ore bodies upon which future and permanent operations will depend.

At present, the concentrating appliances at the mill consist of three vanning machines. These machines are not suitable to obtaining the best results from these ores and I would advise substituting for them two of the improved Wilfley Concentrating Tables. By so doing, a much better saving will be made and the capacity of the mill largely increased.

I would also strongly recommend that the mill, the boiler at the Leghorn shaft house and that at the Gold Lode, be equipped with oil burners; that suitable tanks for the storage of fuel oil be erected at the railroad station, the mill and at the mines mentioned, and that a tank wagon for transporting fuel oil from the railroad to the Company's property be at once provided.

I would also advise the installation of an air compressor and power drills at the Leghorn, Gold Lode and Bugler mines, because these appliances will greatly facilitate the Company's operations and enable much better progress at less cost to be made.

Further, I would recommend the construction of a concrete dam in the Canyon above the mill, for the purpose of impounding and conserving the water supply and for the development of at least sufficient power for lighting the mill and adjacent buildings by electricity.

I would also advise the establishing of a Commissary or Company store, at the Company's headquarters, because such an establishment would be a source of no inconsiderable revenue, besides being a great convenience for the men employed at the various properties.

ARIZONA COPPER-GOLD MINES COMPANY REPORT -6-

In conclusion I may say that the holdings of this Company are located in what is known and has been proven to be one of the richest mineral bearing districts in the southwest. About seven miles to the north, and in the same range of mountains, lies the famous United Verde mine, whose steady production of ~~A~~ Million A Month has made it famous the world over. This celebrated property was originally opened as a gold mine and its vast stores of copper bearing ores were not known or even suspected until the advent of sufficient capital to properly develop the property revealed them.

(signed)
H. P. Dickinson

1906
Prescott, Arizona

Formerly:

Assayer Rio Grande Smelter, Socorro, New Mexico.
Assayer St. Louis & Zacatecas Ore Co., Jimenez Mexico.
Manager Calumet Smelting & Refining Co., Chicago, Ill.
Consulting, Mining & Metallurgical Engineer, Denver, Colo.
Assayer in charge of Ore Shipments from Revenue Tunnel Mines Company of Ouray, Colo.,
And the Commodore Mining Co., of Creede, Colo., at Pueblo, Colo.

Buglar

ARIZONA ASSAY OFFICE

815 North First Street
Phoenix, Arizona

<u>Marks</u>	<u>No.</u>	<u>Gold</u> <u>Oz.</u>	<u>Value (oz.)</u> <u>\$35.00</u>	
Morning Star	1	.12	\$ 4.20	) Morning Star
" "	2	.03	1.05	
Buglar	1	.12	4.20	
"	2	.17	5.95	
"	3	.54	18.90	
"	4	.20	7.00	
"	5	.05	1.75	
Dump	6	.44	15.40	
Raise Lower to upper tunnel 80' below middle	7	.15	5.25	
50' below middle tunnel in stone.	8	.31	10.85	
Stope 50' below middle tunnel	9	.10	3.50	
30' up raise above tunnel	10	.44	15.40	
Small stope above middle tunnel	11	.38	\$13.30	
Middle tunnel apex	12	1.18	41.30	

No. 202 Du

Phoenix, Arizona,

CHAS. A. DIEHL

May 20, 1946.

ARIZONA ASSAY OFFICE

Phone 3-4001

815 North First Street
Department of Mineral Resources
Mr. C. H. Dunning.

P. O. Box 1148

This Certifies That samples submitted for assay by

contain as follows per ton of 2000 lbs. Avoir.

MARKS	No.	SILVER		VALUE (Oz.)	GOLD		VALUE (Oz.)	TOTAL VALUE Of Gold and Silver	PERCENTAGE		REMARKS
		Ounces	Tenths		Ounces	Hundredths			%	%	
							\$35.00				
Morning Star	1				.12		\$4.20	} Morning Star			
" "	2				.03		\$1.05				
Buglar	1				.12		\$4.20				
" "	2				.17		\$5.95				
" "	3				.54		\$18.90				
" "	4				.20		\$7.00	} Buglar			
" "	5				.05		\$1.75				
Dump	6				.44		\$15.40				
Raise Lower to upper tunnel 80' below middle.	7				.15		\$5.25				
50' below middle tunnel in stone.	8				.31		\$10.85				
Stope 50' below middle tunnel	9				.10		\$3.50				
30' up raise above tunnel	10				.44		\$15.40				
Small stope above middle tunnel	11				.38		\$13.30				
Apex	12				1.18		\$41.30				

Charges \$ \$14.00

Assayer ARIZONA ASSAY OFFICE

C. A. D.