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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: MONTE CRISTO

ALTERNATE NAMES:
   PATENTED CLAIM MS 2410

YAVAPAI COUNTY MILS NUMBER: 1128B

LOCATION: TOWNSHIP 13 N RANGE 2 W SECTION 25 QUARTER W2
LATITUDE: N 34DEG 28MIN 30SEC  LONGITUDE: W 112DEG 25MIN 18SEC
TOPO MAP NAME: GROOM CREEK - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
   SILVER
   GOLD

BIBLIOGRAPHY:
   ADADMMR CONTE CRISTO FILE
   BLM MINING DISTRICT SHEET 248
   YAVAPAI MAGAZINE JULY 1918 P 3 SHARLOT HALL
   MUSEUM PRESCOTT, AZ
   ADMMR HIDDEN TREASURE MINING & DEV. CO. FILE
   ADADMMR MONTE CRISTO (GROOM CREEK) COLVO FILE
MONTE CRISTO MINE

USGS Bull. 782  p. 113

ABM Bull #137 p. 33

Arizona Mining Journal Issue Aug. 1920 p. 60

REPORT ON MONTE CHRISTO MINE

This property consists of one small patented mining claim (15 acres) located in Yavapai County, Arizona, one-half mile from the Groom Creek Post Office and store and six miles from the City of Prescott on the Santa Fe Railway. The Senator Highway passes through Groom Creek P.O., and a fair road leads to the Monte Christo Mine.

The elevation is 6500 feet and climate excellent, permitting work at all seasons. Domestic water is obtained from Groom Creek which flows close to the claim. The surface is hilly and covered with a scant growth of yellow pine, black oak and underbrush.

GEOL OGY

The county rock is mainly Yavapai Schist, intruded by dikes of diorite and porphyry. The ore is found in well defined veins along these dikes.

There is one main vein striking almost due north and south and nearly vertical. This vein apparently traverses the entire length of the claim (1100 ft.) and has been developed from the south end line where the Monte Christo joins with the Hidden Treasure Claim for a distance of 500 feet to the north. There is every reason to expect that values will continue further north as development proceeds either in the present ore shoot or in other similar shoots. The shoot so far developed has a proven length of 500 feet and throughout most of this distance the mineralization is about six feet wide, but the pay streaks lie in two narrow veins each about one foot in width along the foot and hanging walls. The filling between these pay streaks is mostly rock and crushed diorite with low values.
and in mining this material furnishes a convenient filling for
the stopes. There were evidently two successive periods of
mineralization, the first fracturing of the rock resulting in
filling the fissure with wall rock and the second opening up
new fissures along the walls and allowing the much richer solu-
tions to deposit the pay ore vein. The filling of these
veins is largely quartz containing free gold, silver associated
with manganese minerals and iron sulphide with which gold and
silver are also associated. Traces of copper, lead, and zinc
are also noted.

There are several small cross veins to be seen
on the surface and from the outcrop of these some good values
have been obtained, but little or no underground development
has been done on them.

HISTORY

The mine was discovered in the 60's and worked
in a small way for the production of high grade sorted ore.
Many spectacular pieces containing both wire gold and wire or
leaf silver were found, and shipments were made with value of
several hundred dollars per ton, but no exact record of these
is now available.

Later, a shaft was sunk to a depth of over 400
feet with levels at 100, 200, and 400 depth, and the mine
was equipped with a power and mining plant and a small mill.
It is reported that the grade of ore decreased in the deeper
workings, and this I can well believe since veins of this type
rarely carry values to any great depth. Practically all of the
past production of the mine seems to have come from above the 200
foot level, and there is probably no reason to expect any sub-
stantial future production from below that point, but in my
opinion there is every reason to continue the development work
further to the north in the hope that the ore will extend for
a long distance in that direction.
3-REPORT ON MONTE CHRISTO MINE

The accuracy of the only discovered map is very doubtful and as far as recent workings show the old workings did not include large portions of the mineralized area, and a substantial amount of ore was left between and above the stopes which probably only followed the highest grade lenses.

Only one old report on the mine has been found and that was made by Harrington Blauvelt, probably some thirty years ago. Blauvelt had been familiar with the mine since the 80's and had charge of some of the work. He states that shipments ran up to 150 oz. silver to the ton and 3 oz. in gold and that much lower grade ore had been concentrated and substantial profit had been made by the successive owners and lessees who generally worked out the richest pockets then in sight, but failed to carry on any systematic development.

He mentions the probability of finding high grade ore by extending the lower workings to the north and also advises development on a parallel vein which he says was cut by crosscuts from the 200 and 400 foot levels, but apparently little or no pay ore was found in this vein. He also advises work on the cross veins and in general recommends the property very highly.

Personally, I have never seen the lower workings of this mine, as the water now stands less than 20 feet below the adit, but from such studies and inspection as I have made and such reliable information as I have obtained, I do not believe that it would pay to open it up below the 200 foot level, nor do I think that it would pay to put in a mill or attempt to handle the lower grade of ore.

On the other hand I am satisfied that the narrow veins on which the lessees are working still contain a substantial quantity of high grade ore and that careful mining and sorting will permit the operators to continue shipments which will assay better than $45.00 per ton in gold and silver and should yield a substantial margin of profit considering that the total cost of development, mining, and sorting should not
4- REPORT ON MONTE CRISTO MINE,

exceed $10.00 per ton and the cost of trucking, freight and
treatment is about $12.00 per ton. This ore should extend much
further to the north than the limit of the old workings and
probably down to the 200 feet level which as it runs north is
350 feet below the top of the hill. The present condition of
the mine is such that no estimate of ore reserves can be made,
beyond the few hundred tons which lie in the backs of the
working stopes above the adit and below the adit from the winze
to the north shaft, but the indications all favor lateral con-
tinuance of this ore to the north and downward to 100 feet or
200 feet below the adit.

The fragmentary records of past operations lead
me to believe that the mine was never systematically developed
or operated, and that a well laid out program for such work in
the future would be well rewarded and yield a handsome return
on a comparatively small investment. A partial record of
shipments made in 1917 shows an average of 0.3 oz au and 100 oz.
ag. (present value $75.00 per ton.) and the shipments made by
the present lessees have a net value of over $42.00 per ton
at present prices.

EQUIPMENT

There is no machinery on the property as the
present lessees are working only with hand steel. There are two
small dwellings capable of housing 8 or 10 men, and a shed in
which a small hoist was recently located.

To properly operate this mine on a suitable scale
it would be essential to install a small gasoline hoist and
compressor, also to provide a pump, air drills, and simple
blacksmithing equipment at a total estimated cost of $5000.
With such equipment five men working one shift should be able to
break and sort about 100 tons of ore per month for a total
expense of $1000. The trucking, freight, and treatment on the
shipments would be about $1200 per month making total expense of
$2200 and leaving $2000 for net profit. I do not think that
it would be wise to attempt to work the mine on a larger scale, and therefore it is of no interest to any large company, but it should prove extremely attractive to an individual or syndicate who are seeking some operation of about this size.

CONCLUSION

This property may properly be classed as an attractive prospect and seems to furnish the chance for a good mining gamble involving the risk of losing a comparatively small initial investment against the probability of a substantial return.

The value of the ore is quite sufficient to leave a good margin of profit at present prices and the principal values are in silver, which metal seems likely to advance in price during the next six months. The outcome of the venture will depend upon the extent to which this high grade of ore will continue, and while this can only be guessed at present, it is my opinion that sufficient ore will be found to at least repay the outlay involved and return some net profit which profit should reach a very considerable figure if the ore shoots continue to the north of the present workings and hold good to a depth of even 100 feet below the adit.

I am part owner and represent the other owners of this property and am therefore an interested party and gladly invite investigation by a prospective purchaser or their Engineers.

S. H. Colonna
Copy of a report made by H. Bleauvelt.

The Monte Cristo Group of Gold and Silver Mines.

(Not dated.)

Location:

The property lies upon Groom Creek, only six miles from Prescott, Yavapai County, Arizona, and is reached by wagon road, (the State Highway) on a uniform grade.

Mining Claims:

The group consists of three mining claims; the Monte Cristo, May Morgan and Rocky Point. The Hidden Treasure mine being the South extension. (Note by G. M. Colvoocoreases: Subsequently the Monte Cristo claim was separated from the other two.)

Development Work:

Most of the work is done upon the Monte Cristo and consists of a tunnel nearly 500 feet long; and air shaft 95 feet to the surface from the tunnel; a double compartment working shaft 412 feet deep and the following levels as shown on a map.

- 50 ft. level; 100 feet long.
- 100 ft. level; 365 feet long.
- 200 ft. level; 340 feet long.
- 300 ft. level; 210 feet long.

also numerous crosscuts, upraises and small shafts upon the various claims.

The above mentioned levels run North from the 412 ft. shaft; the vein pitching slightly to the East; the shaft passes through the vein below the 100 ft. level and crosscuts are run over to it below that point. That at the 400 ft. level work was stopped just as crosscut from shaft was about to reach vein.

Development work South was stopped in the Hidden Treasure ground (an option having been taken upon this claim) just before the ore shoot was reached.
In the early days of mining in this locality a remarkable rich shoot of free milling ore was found on the Hidden Treasure ground about 500 to 550 feet South of the dividing line between it and the Monte Cristo Mine. This was taken out and worked by crude processes and a great many thousands of dollars extracted. It was to get under this rich shoot of ore that the 200 ft. level of the Monte Cristo was extended South but not far enough to reach it.

Ore Character — Monte Cristo Vein:

The Monte Cristo ore is a quartz containing native (Mettalic) silver in wires and leaves; also iron sulphides (pyrite) that carries the gold values.

A great deal of this ore has been shipped, went as high as 150 ounces silver, $60.00 in gold, while the ore that was milled made concentrates in values up to 125 ounces silver, 3½ ounces gold; The ore milled containing values from 15 to 40 ounces silver, $9.00 to $16.00 gold as it was taken from the mine, the concentrates being shipped to smelting works. There is at present none of this class of ore in sight in the mine.

The Monte Cristo is one of the famous properties in the vicinity of Prescott. Its owners received numerous dividends from it during a period of ten years. Not being able to work it themselves, owing to their ages, they were rewarded with a net sum of from ten to twelve thousand dollars and others previously securing in the aggregate about fifteen thousand dollars; the beautiful masses and clusters of wire silver taken from the mine have found their way as specimens to many cabinets.

The property was never systematically developed but gouged out, the lessees following only after the richest ore.

An option having been secured upon the property a double compartment shaft was sunk 412 feet deep and levels run
every 100 feet in depth. A five stamp mill with concentrating tables was erected and some of the remaining ore in the old workings extracted and concentrated making a product as above stated. The lower level has not been completed into ore shoot as yet, the crosscut over to it from the shaft being but a few feet more and is one of the first places at which to commence development. When this is done, undoubtedly a shoot of the richest ore found in the vicinity of Prescott will be opened up, for the Monte Cristo has had practically no poor ore, no low grade ore; no second class ore dumps have ever been seen on the Monte Cristo; it has all been shipped away or converted into high grade concentrates.

Fifty feet north from shaft the 400 ft. level should run into a body of beautiful ore, consisting of iron pyrite containing the gold values. Black sulphide of silver and leaves and wires in the form of little nests of native silver, as the silver is frequently found in little fine shoots would round and round like a small bird's nest in the holes or cavities in the ore, frequently appear.

Ore Blind Vein:

Another vein parallels the main Monte Cristo vein, being on the surface to the west of the vertical 400 ft. shaft, and being intercepted by the shaft at the 100 ft. level and pitching to the East being again intersected at 200 ft. level by crosscut at a distance of about 40 ft. and on the 300 ft. level by crosscut at a distance of about 75 feet. This vein intersects the Monte Cristo vein north of shaft at a distance of about one hundred feet at each level and at each level and at these intersections some very good sulphide ore has been found with values high in gold. As this vein goes north it separates more and more from the Monte Cristo vein. About 200
feet north from shaft on 300 ft. level a crosscut was run westerly to get over to the large "Crosscut" vein shown on map. This cut through the parallel vein about 40 feet west and where it was passed through it shows on the North side a small streak of galena pyrite ore a few inches thick that is probably the beginning of the ore shoot pitching northward and should be drifted upon.

This one of the localities to which I draw especial attention as being one of the places to do development work.

Ore Crosscut Vein:

This large vein runs northeasterly across the Monte Cristo, also the parallel vein, crossing Monte Cristo vein about 75 feet north of the air shaft in tunnel. This vein is a large red and yellow oxidized one, carrying streaks here and there running well into gold and has many shallow shafts and holes dug into it at the surface; at intersection of where it crosses the Monte Cristo vein the adjacent wall rocks are much decomposed and small veinlets of silver and gold ore run in every direction. Much of the decomposed rock will pay to work but, so far, the shafts and holes at this point appear to have been sunk alongside of the vein proper and no development done upon it. The aforesaid decomposed rock runs 14 to 40 ounces silver and when a cross cut is run across this entire mass it will open up some ore that should run high in values. On the tunnel level 95 feet below the surface a crosscut is run within 10 or 15 feet of this big vein and is another locality to which I call particular attention for doing development work. The crosscut heretofore spoken of as running West from the 200 ft. level across parallel vein is about 40 ft. from this vein and will cut it 295 ft. deep and is another point for development work.
Ore Rocky Point Vein:

This vein runs through the Rocky Point claim on which there is a shaft 60 feet deep; also some shallow cuts and hole which show oxidized ore with rich streaks through it but will require more extended and deeper work to determine its value.

Improvements:

Upon the property there is a bunk house, boarding house, hoist building, blacksmith shop and superintendent's residence; also mill building suitable for five stamp mill, pipe lines and water tanks.

The Company that started work upon this property and equipped it, lacked capital to go ahead and soon came to grief, their option expiring and their equipment being taken for debts. As stated they stopped the ore pretty well above the one and two hundred ft. levels, although there is quite a block of fine ore ready to be removed from the 100 ft. level and just under the floor of that level. Above the 300 ft. level not much stoping has been done and upraises will have to be put into some of the shoots of ore and that block of ore developed.

Future of the Property:

I think that the property with the expenditure of a few thousand dollars will be in a condition to pay dividends. It is an ideal locality, only six miles from the railroad, (thence twenty miles from the Humboldt smelter, and the best road in State out from the mine). One can drive to mine in an automobile in about twenty-five minutes and work all the year around.

Freighting to and from the mine is done cheaply; wood and timber near at hand and water sufficient for all purposes.

(Signed) Harrington Bleauvelt.

(Probably about 1898)
YAVAPAI COUNTY
(Hassayampa District)
(Groom Creek)

G. M. Colvocoresses
1102 Luhres Tower
Phoenix, Arizona

Monte Cristo Mine

July 12, 1940.

SILVER & GOLD --- 1 patented claim in Hassayampa district, Yavapai County. Developed by 400 foot shaft, 400 foot tunnel and other workings. Most of old workings now caved and inaccessible. Shear zones with quartz veins on foot and hanging walls. Both oxide and sulphide ore. Promising showings along surface outcrops. Ore shoots are erratic, the high grade mostly less than 1 foot in width, the low grade 3 to 4 feet wide. Length and depth uncertain. Fair road, ½ mile from highway. Substantial water supply in workings. Lease operations since 1933 have produced few hundred tons of $40 ore. Will lease on 10% royalty and give option to purchase.
Arizona Department of Mineral Resources,
Capitol Building,
Phoenix, Arizona.

Gentlemen:

I am herewith enclosing Mine Owners reports covering the Storm Cloud property in the Senator District and the Monte Cristo Mine near Groom Creek.

In filling out the forms of report which you sent me, I have tried to briefly state the more essential facts but in each case there is a great deal of supplementary data which I will gladly supply to any responsible party who may be seriously interested in investigating these properties.

Thanking you for having given me an opportunity to put these reports on record, I remain

Yours very truly,

[Signature]

GMC: MF
Enc.

See: A.B. M. Bull. #137, p. 33
See: U.S.G.S. Bull. #782 p113
1. Mine Monte Cristo
2. Location Groom Creek
3. Mining District & County Hassayampa, Yavapai County.
4. Former name
6. Address (Owner) 1102 Luhrs Tower, Phoenix, Arizona
7. Operator
8. Address (Operator)
9. President, Owning Co.
9A. President, Operating Co.
13. Men Employed
14. Principal Minerals Silver & gold
15. Production Rate
17. Power: Amt. & Type
18. Operations: Present
19. Operations: Planned Desire to lease or sell.
20. Number Claims, Title, etc. One patented.
21. Description: Topography & Geography
On slope of hill, elevation 6500' fairly well timbered.
22. Mine Workings: Amt. & Condition
Old workings from main shaft over 400' deep and adit tunnel 400' long. Water stands 10' below collar of shaft and most of old workings now caved but portions of them accessible from surface.
23. Geology & Mineralization
Granite country with diorite. Shear zone with quartz veins on foot and hanging walls. Iron oxides associated with gold and silver, sulphides found below water level.

24. Ore: Positive & Probable, Ore Dumps, Tailings
No positive ore and uncertain quantity of probable and indicated, some promising showings in surface pits and long outcroppings.

24A. Dimensions and Value of Ore body
Shoots of ore are erratic, high grade mostly less than 1' in width, low grade 3 to 4' wide, length and depth uncertain.

25. Mine, Mill Equipment & Flow-Sheet
No equipment, two small cabins.

26. Road Conditions, Route
Senator Highway to Groom Creek then fair road 1/2 mile up Groom Creek. Mine is 6½ miles from Prescott.

27. Water Supply
Small supply of good domestic water in branch creek on claim. Substantial quantity of water obtainable from shaft.

28. Brief History
Intermittent operations since 1870 with production of some very high grade ore and lower grade treated in two small mills. Last operations by Lessees since 1933 have produced few hundred tons of $40.00 ore.

29. Special Problems, Reports Filed
Necessary to clean out and reopen old workings and partially unwater shaft. Copy of old report by Harrington Blauvelt.

30. Remarks
Fair chance of finding considerable low grade ore in old workings and new shoots of high grade in unexplored portions of the veins.

31. If property for sale: Price, terms and address to negotiate.
Will lease on 10% royalty and responsible interested parties can secure full data on terms of sale. Option price about $15,000.

32. Signature

33. Use additional sheets if necessary.
1. Mine: Monte Cristo

2. Mining District & County: Hassayampa, Yavapai County

3. Former name: 

4. Location: Groom Creek


6. Address (Owner): 1102 Luhrs Tower, Phoenix, Arizona

7. Operator: 

8. Address (Operator): 

9. President: 

10. Gen. Mgr.: 


12. Mill Supt.: 

13. Principal Metals: Silver and gold

14. Men Employed: 

15. Production Rate: 

16. Power: Amt. & Type: 

17. Operations: Present: 

18. Operations Planned: Desire to lease or sell.

19. Number Claims, Title, etc.: One patented.

20. Description: Topography & Geography: On slope of hill, elevation 6500' fairly well timbered.

21. Mine Workings: Amt. & Condition: Old workings from main shaft over 400' deep and adit tunnel 400' long. Water stands 10' below collar of shaft and most of old workings now caved but portions of them accessible from surface.

(over)
23. Geology & Mineralion: granite country with distinct, S.l. r zone with quartz veins on fo and hanging walls. Iron oxides associated with gold and silver, sulphides found below water level.

24. Ore: Positive & Probable, Ore Dumps, Tailings: No positive ore and uncertain quantity probable and indicated, some promising showings in surface pits and along outcroppings.

24-A Vein Width, Length, Value, etc.: Shoots of ore are erratic, high grade, mostly less than 1' in width, low grade 3 to 4' wide, length and depth uncertain.


26. Road Conditions, Route: Senator Highway to Groom Creek then fair road 1/2 mile up Groom Creek. Mine is 6-1/2 miles from Prescott.

27. Water Supply: Small supply of good domestic water in branch creek on claim. Substantial quantity of water obtainable from shaft.

28. Brief History: Intermittent operations since 1870 with production of some very high grade ore and lower grade treated in too small mills. Last operations by Lessees since 1933 have produced few hundred tons of $40.00 ore.

29. Special Problems, Reports Filed: Necessary to clean out and reopen old workings and partially unwater shaft. Copy of old report by Harrington Blauvelt.

30. Remarks: Fair chance of finding considerable low grade ore in old workings and new shoots of high grade in unexplored portions of the veins.

31. If property for sale: Price, terms and address to negotiate. Will lease on 10% royalty and responsible interested parties can secure full data re: terms of sale. Option price about $15,000.

32. Signed./S/..G.M. Colvocoresses..........................

33. Use additional sheets if necessary.