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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

YAVAPAI COUNTY

USGS Bull. 782 p. 113

ABM Bull #137 p. 33

Arizona Mining Journal Issue Aug. 1920 p. 60

Skillings Mining Review, June 28, 1975; 6/29/35 info.

GEORGE M. COLVOCORESSES
MINING AND METALLURGICAL ENGINEER
Phoenix, Arizona

DB Luhrs Tower
Phoenix, Arizona

October 24, 1934

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 8500 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.

GEOLOGY

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

*This is copy of Sealed
Original Sm. 4-2002.*

B- REPORT ON MONTE CHRISTO MINE

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 solutions to deposit the pay ore veins. 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 substantial 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 CRISTO MINE

The accuracy of the only discovered map is very doubtful and so far as recent workings show the old working did not include ^{large portions} ~~any~~ 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 Blauveldt probably some thirty years ago. Blauveldt 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 lessors 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 lessors 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 CHRISTO 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 foot level which as it runs north is 250 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 continuation 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 leasers have a net value of over \$42.00 per ton at present prices.

EQUIPMENT

There is no machinery on the property as the present leasers 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 \$2800 for net profit. I do not think that

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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 comparative 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. Colman

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. Colvocoresses: 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; 385 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 (Mattalic) silver in wires and leafs; 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 18 to 40 ounces silver, \$8.00 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 leasers 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 200 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 stoped 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)

MONTE CRISTO MINE

YAVAPAI COUNTY
(Hassayampa District)
(Groom Creek)

✓ *Lead*
G. M. Colvocoresses *Tal*
1102 Luhrs Tower
Phoenix, Arizona
✓
Monte Cristo Mine

MM-56 ✓

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, $\frac{1}{2}$ 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.

GEORGE M. COLVOCORESSES
MINING AND METALLURGICAL ENGINEER
1102 LUHRS TOWER
PHOENIX, ARIZONA

July 15th, 1940

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,

G. M. Colvocoresses

GMC:MF
Enc.

See: A.B. M. Bull. #137, p.33

See: U.S.G.S. Bull. #782 p113

Lassanampa Dist

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
MINE OWNER'S REPORT

Date July 12th, 1940

1. Mine Monte Cristo
2. Location Groom Creek
3. Mining District & County Hassayampa,
Yavapai County.
4. Former name
5. Owner G. M. Colvocoresses, et al.
6. Address (Owner) 1102 Luhrs Tower
Phoenix, Arizona
7. Operator
8. Address (Operator)
9. President, Owning Co.
- 9A. President, Operating Co.
10. Gen. Mgr.
14. Principal Minerals Silver & gold
11. Mine Supt. Idle.
15. Production Rate
12. Mill Supt.
16. Mill: Type & Cap.
13. Men Employed
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 along 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 $6\frac{1}{2}$ 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 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 re terms of sale. Option price about \$15,000.

32. Signature.....

E. H. Colverson

33. Use additional sheets if necessary.

MM-56

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Date July 12, 1940

6 mi from Prescott

- 1. Mine Monte Cristo
 - 2. Mining District & County Hassayampa, Yavapai County
 - 3. Former name
 - 4. Location Groom Creek
 - 5. Owner G.M. Colvocoresses, et al.
 - 6. Address (Owner) 1102 Luhrs Tower Phoenix, Arizona
 - 7. Operator
 - 8. Address (Operator)
 - 9. President
 - 10. Gen. Mgr.
 - 11. Mine Supt. Idle.
 - 12. Mill Supt.
 - 13. Principal Metals Silver and gold
 - 14. Men Employed
 - 15. Production Rate
 - 17. Power: Amt. & Type
 - 18. Operations: Present
- MONTE CRISTO

Ag, Au

Yavapai 13 - 4 T 13 N, R 2 W

G. M. Valvocoresses, et al, No. 2 Luhrs Tower, Phoenix '40
- 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 & Mineral ion : anite country with di te. Sh 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..
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 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.
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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 /sd/ G. M. Colvocoresses.....
33. Use additional sheets if necessary.