CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
1520 West Adams St.
Phoenix, AZ 85007
602-771-1601
http://www.azgs.az.gov
inquiries@azgs.az.gov

The following file is part of the

Arizona Department of Mines and Mineral Resources Mining Collection

ACCESS STATEMENT

These digitized collections are accessible for purposes of education and research. We have indicated what we know about copyright and rights of privacy, publicity, or trademark. Due to the nature of archival collections, we are not always able to identify this information. We are eager to hear from any rights owners, so that we may obtain accurate information. Upon request, we will remove material from public view while we address a rights issue.

CONSTRAINTS STATEMENT

The Arizona Geological Survey does not claim to control all rights for all materials in its collection. These rights include, but are not limited to: copyright, privacy rights, and cultural protection rights. The User hereby assumes all responsibility for obtaining any rights to use the material in excess of "fair use."

The Survey makes no intellectual property claims to the products created by individual authors in the manuscript collections, except when the author deeded those rights to the Survey or when those authors were employed by the State of Arizona and created intellectual products as a function of their official duties. The Survey does maintain property rights to the physical and digital representations of the works.

QUALITY STATEMENT

The Arizona Geological Survey is not responsible for the accuracy of the records, information, or opinions that may be contained in the files. The Survey collects, catalogs, and archives data on mineral properties regardless of its views of the veracity or accuracy of those data.

03/11/91

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: MASHACKETY-PAT. #2685 & 4096

ALTERNATE NAMES:
COLUMBIAN PAT. CLAIM
CATHERINE PAT. CLAIM
COTTONWOOD CREEK GOLD

MARICOPA COUNTY MILS NUMBER: 548

LOCATION: TOWNSHIP 6 N RANGE 4 E SECTION 4 QUARTER SE
LATITUDE: N 33DEG 53MIN 15SEC LONGITUDE: W 111DEG 56MIN 44SEC
TOPO MAP NAME: NEW RIVER MESA - 7.5 MIN

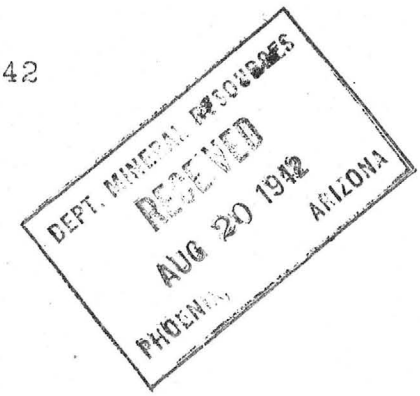
CURRENT STATUS: DEVEL DEPOSIT

COMMODITY:
GOLD

BIBLIOGRAPHY:
USGS NEW RIVER MESA QUAD
BLM MINING DISTRICT SHEET
BLM PLATS 2685 AND 4096
ADMMR MASHACKETY FILE

Theodore B. Jones
CAHAVA AND Y. BENCH RANCH
CAVE CREEK, ARIZONA

August 19, 1942



Mr. J.S. Coupal, Director
Department of Mineral Resources
State Capitol
Phoenix, Arizona.

Dear Mr. Coupal:

Statement-

Regarding a group of four patented and two unpatented mining claims, situated thirty five miles north of Phoenix, in the Cavecreek Mining District, Maricopa County, Arizona.

Considerable work is done on each of the six claims, but this Statement chiefly has to do with the main patented claim, on which is an upper and a lower tunnel.

mine workings and condition

The lower tunnel is in the hill about 300 feet and at the breast the floor is about 60 feet below the hill surface. About 20 feet from the breast of the tunnel is a raise to the surface, but now caved. A few feet from the rise are an east and west crosscut, about 75 feet in length. West of the crosscut are an east and west winze, each about 30 feet in depth. There are other winzes and drifts near the mouth of the tunnel. Open pits are outside the tunnel and in ore. All of this work is in ore and comprises an ore mass 400 feet long, 75 feet wide, 90 feet depth.

Values are gold-free milling. Assays have been obtained in varying amounts and up to $56.00. Assays up to $17.00 have come from the deepest work, indicating that the bottom of the ore mass is not yet reached. These results are from a skin sampling of development done. Engineers estimate an additional 400,000 tons in the unopened ore area. Core drill sampling would likely determine the extent of the ore mass.

Water for mining and milling can be developed on one patented claim, and at small depth.

The property is reached from Phoenix, Arizona, over 10 miles of paved road, 20 miles improved, and five miles graded road.

Theodore B. Jones
CAHAVA AND Y. BENCH RANCH
CAVE CREEK, ARIZONA

The south endeline of the main ore mass joines the north end line of the Phoenix mine which has a reported production of $300,000 gold, and an estimate one and one fourth million tons of ore still in the mine. Values were recovered by stamps and amalgamation.

About a claim length south of the Phoenix mine is the Maricopa mine with a reported gold recovery of $100,000, by stamps and malgamation.

Other Prospects in this District contain gold, and in some cases associated with galena and copper.

Claims mentioned in this Statement were first located in the early 1870's, and their history is interesting.

Very truly yours,

Theodore B. Jones

Theodore B. Jones

COPY

JAMES W. NEILL
Mining Engineer, Geologist, Metallurgist
430 West Colorado Street
Pasadena, California
Sycamore 2-6002

April 1941

STATEMENT

Regarding the Mashakety Mines, Cave Creek, Maricopa Co., Arizona.

Locality

This property, consisting of four patented and two unpatented claims, is situated 5 miles north of the village of Cave Creek, 32 miles north of Phoenix, Arizona. The elevation at the mine is 2300 feet; at Phoenix, 1100 feet. The road is paved for 12 miles, thence improved county road to Cave Creek, and fair gravel road to the mine. No grades to climb, though several short pitches.

History

The property has been in the possession of the present owner for 35 years, and most of the development work was done prior to that time. A small mill was installed in the early days, but it did not treat over a few hundred tons.

Geology

The area is occupied mostly by the Yavapai schists, which stand vertically and strike N30W; they have been intruded and uplifted by various eruptions of porphyry, etc. The ore body is a coarse breccia, carrying large and small fragments of older rocks, porphyries, quartzites, and vein quarts all cemented together by a white silicious binder, which is friable and soft. The origin of this breccia is obscure, but it appears to me to be a "mud-flow" lava extruded from the nearby plug of Marion Peak. It covers and lies conformably (non?) on the schists. The gold is contained in very minute particles, very bright and free. There are no sulphides present, and only a very small amount of concentrate is shown in the pan.

Developments

The attached maps, from my personal surveys, show the main workings on the claims. A copy of the patent survey is also attached, together with sections through the workings. The main tunnel enters the ore-mass at the surface and is in it its entire length. A raise near the south end extends 58 feet to the surface, in ore, and two winzes nearby are each 24 feet deep, also all in the ore, with no bottom or bed-rock schists showing, thus the ore-mass is 82 feet thick. An old upper tunnel from the west crosses the main tunnel and is connected with it by a small hole, thus affording good ventilation. This old tunnel is not accessible at present, though it is open. North of the main tunnel entrance are several small openings, shown on the map, all in the ore mass. It is also shown at the entrance of an old tunnel on the adjoining claim, to the south, this giving us a measure of the probable width at the surface. The attached photograph of the entrance of the main tunnel shows the white ore-mass, with darker material above to the surface; this is also ore, but has been stained by weather and exposure.

Tonnage

The openings shown on the map cover outlines an area of 450 x 200 x 60 feet (depth) making a total of 450,000 tons, which may reasonably be called "probable ore". This tonnage is of course not "blocked out", as that is not possible in a deposit of this character, but the several winzes and all openings make it reasonably certain. The same ore-mass was opened in the old Phoenix mine, adjoining the Mashakety on the south, and from it there have been mined and milled in a 60-stamp mill a stated total of 60,000 tons with a recovery of $300,000.00. These old workings are now caved to the surface, leaving large open pits shown in the accompanying photographs.

Values

At my suggestion the owner has had the main workings sampled; this wasdone by cutting with a pick, or moil, a series of what he calls "cart wheels" from the surface. The spokes of these wheels were five feet long, their ends touching those of the next wheel (see sketch adjoining). Thus each hweel covers an area of 25 square feet. The material was cut on the sheet iron, broken to minus one inch, mixed and quartered on the iron, and samples in 15 to 20 pound lots taken to the assayer. The entire cuttings from ten cart wheels or fifty feet of the tunnel length were combined for one assay. Similar samples were taken from the other workings. The assay results on these samples were as follows:

From big room at entrance, one side	$ 2.80
" " " " other side	7.25
First 50 ft. south of winze	14.00
Second 50 ft.	2.80
Third 50 ft.	7.50
This gives a weighted average of 200 ft. of the tunnel	6.91
From east winze at south end	17.15
From west winze at south end	5.25
West crosscut near entrance	56.15
East crosscut at south end	4.20
From pit north of main tunnel, 16 ft. deep	7.40
From short tunnel north east of entrance	1.05
From surface stuff caved into south rise	9.10
A mixture of all samples taken to the assayer mixed by him gave	9.80

Various assays of specimens ran from 70¢ up.
The $56.15 assay was not included in the calculated average.
These samples represent only the skin of the deposit shown in the openings, probably subject to the influence of slacking, etc., and it is supposable that by blasting new faces and sampling the blasted material, better values may be obtained. I am accepting a value of $5.00 for the tonnage outlined, and basing the following calculations on this figure.

Mining method and costs.

As the ore mass comes to the surface, it can be broken down and loaded into trucks, cars, or other vehicles by quarrying methods, using power shovels, and this has been done at many places for 15¢ to 25¢ per ton. I prefer to assume for this mining method a cost of 35¢ per ton delivered at the mill, for a tonnage of from 100 to 200 tons per day.

Milling method and costs.

Judging from the appearance of the gold, a very good recovery should be made by simple amalgamation and/or corduroy cloth, followed by tabling to check on losses and valuable concentrates. This method should save not less than 80% of the gold, and would be cheaper than the cyanide process;

However, should laboratory tests show that it is advisable to use the cyanide method, we may place the cost of this latter at not over $1.35 per ton. Thus we have, mining 35¢, milling $1.35, total $1.70, and to this we will add 30¢ per ton for overhead, taxes, insurance, etc., and finally arrive at our total operating cost of $2.00 per ton. I have accepted a value of $5.00 for the ore and an 80% recovery (too low); thus we recover $4.00, less costs of $2.00 leaves us $2.00 net; deduct 10% royalty to pay for the mine and we have $2.00 less 40¢, or $1.60 final net. However, this 40¢ royalty will purchase the property with the milling of 187,000 tons, and thereafter this 40¢ is to be added to the actual net, giving us an indicated total operating profit of $825,000.00. However, there is every probability that further development will open up further large tonnage, and the above figure is given merely to indicate the expectency from present ores.

Water

Unusual in Arizona, there is always water in the bed of the creek adjoining the mine, more than sufficient to operate a large tonnage if desired. It will only have to be raised about 100 feet through 1500 feet of piping. The owner has filed on the water rights.

Power

The nearest power line is some 20 miles distant, and the local rates are high, hence it is probable that Diesel power will be most advantageous.

Summary.

The geological and physical occurrence is an unusual one, lying as it does at the surface, with little or no overburden, accessible for power-shovel mining, in a climate where winter will not interfere with operations. The indicated values are higher than those in several mines now being operated at a profit, some of them without all the physical advantages here presented. We have, therefore, a manufacturing proposition, with a large amount of raw material in sight, and more probable, with a product on which the price is fixed and the market always open. The determination of the actual facts concerning this ore mass can be readily and cheaply accomplished by drilling from the surface, thereby outlining the area and depths, hence the tonnage, and the values from many samples from the drillings. The milling plant, whether amalgamation or cyanide process is used, presents no unknown items, and its cost may be readily calculated when the desired tonnage is decided on.

Respectfully submitted.

Signed by — James W. Neill.
Consulting Mining Engineer.

MM-80

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

Date: August 26, 1942

1. Mine: Mashackety

2. Location: 35 miles north east of Phoenix, Arizona.

3. Mining District & County: Cave Creek Mining District, Maricopa County.

4. Former name: Mashackety.

5. Owner: Theodore B. Jones

6. Address (Owner): Cave Creek, Ariz.

7. Operator

8. Address (Operator):

9. President, Owning Co.

9A. President, Operating Co.

10. Gen. Mgr.

14. Principal Minerals: Gold, free millin

11. Mine Supt.

15. Production Rate:

12. Mill Supt.

16. Mill - Type & Cap.

13. Men Employed: None

17. Power - Amt. & Type

18. Operationns - Present: None at present.

19. Operations - planned:

20. Number Claims, Title, etc.: Four patented, two unpatented.

21. Description - Topography & Geography:

22. Mine Workings - Amt. & Condition: The lower tunnel is in the hill about 300 feet and at the breast the floor is about 60 feet below the hill surface. About 20 feet from the breast of the tunnel is a raise to the surface, but now caved. A few feet from the rise are an east and west crosscut, about 75 feet in length. West of the crosscut are an east and west winze, each about 30 feet in depth. There are other winzes and drifts near the mouth of the tunnel. Open pits are outside the tunnel and in ore. All of this work is in ore and comprises an ore mass 400 feet long, 75 feet wide, 90 feet deep.

(over)

23. Geology & Mineralization:

24. Ore - Positive & Probable, Ore Dumps, Tailings: 400,000 tons probable ore estimated.

24A. Dimensions and Value of Ore Body: Approximately 400 ft. long, 75 ft. wide, 90 ft. deep, $5.00 average accepted by examining engineer.

25. Mine, Mill Equipment & Flow-Sheet:

26. Road Conditions, Route: North 7th Street, Phoenix, 10 miles paved, 20 miles improved, 5 miles graded.

27. Water Supply: Can be developed at small depth on one patented claim.

28. Brief History: First located in early 1870's.

29. Special Problems, Reports Filed:

30. Remarks: Assays have been obtained in varying amounts and up to $56.00. Assays up to $17.00 have come from the deepest work, indicating that the bottom of the ore mass is not yet reached. These results are from a skin sampling of development done. Engineers estimate an additional 400,000 tons in the unopened ore area. Core drill sampling would likely determine the extent of the ore mass. The south end line of the main ore mass joins the north end line of the Phoenix mine which has a reported production of $300,000 gold, and an estimated 1¼ million tons of ore still in the mine. Values were recovered by stamps and amalgamation.

31. If property for sale - price, terms and address to negotiate: $75,000. 90 months for examination. First payment $10,000. 10 per cent royalties. Annual payments minimum $5,000 from royalties or from capital. Cash price $60,000. Address owner/

Signed: Theodore B. Jones

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

Date August 10, 1946

1. Mine: MASHACKETY
2. Location: Sec. 3-4-9-10 Twp. 6 N Range 4E Nearest Town Cave Creek
   Distance 5 miles Direction North Road Condition graded
3. Mining District & County: Cave Creek District, Maricopa County
4. Former Name of Mine: Mashackety
5. Owner: Theodore B. Jones
   Address: Cave Creek, Box 52, Arizona
6. Operator: Not operating
   Address:
7. Principal Minerals: Gold- free milling
8. Number of Claims: 6 Lode 6 Placer none
   Patented 4 Unpatented 2
9. Type of Surrounding Terrain: Mountainous, elevation 2300 ft., at mine.

10. Geology & Mineralization: The area is occupied mostly by the Yavapai shists, which stand virtically, and strike N30W, they have been intruded and uplifted by varioys eruptions of porophyry, etc. The ore body is a course breccia, carrying large and small fragments of older rocks, porphyries, quartzites, and vein quartz all cemented together by a white cilicious binder, which is priable and soft.

11. Dimension & Value of Ore Body: 450 # 200 # 60 ft (depth) making a total of 450,000. tons, which may be called "probable ore", Probable aditional expected by further development.

Assyed sampels averaged $9.80.

12. Ore "Blocked Out" or "In Sight": See- II and I2

Ore Probable:

13. Mine Workings—Amount and Condition:

	No.	Feet	Condition
Shafts	Winzes 3	75	open
Raises	58ft -	to surface	
Tunnels	4	I000	open
Crosscuts	2		open
Stopes			

14. Water Supply: Water may be developed for large tonage operations on patented claim

15. Brief History: Mashackety was first located in I875. The entire group is in the present owner possession since I905.

16. Signature: Theodore B. Jones

17. If Property for Sale, List Approximate Price and Terms: $60,000. $I0,000 down minemum payments $5,000 a year from royalties and /or from capital. Cash price $50,000.

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

Date August 26, 1942

1. Mine Mashackety

2. Location 35 miles north east of Phoenix, Arizona.

3. Mining District & County Cave Creek Mining District, Maricopa County.

4. Former name Mashackety.

5. Owner Theodore B. Jones

6. Address (Owner) Cave Creek, Arizona

7. Operator

8. Address (Operator)

9. President, Owning Co.

9A. President, Operating Co.

10. Gen. Mgr.

14. Principal Minerals Gold, free milling.

11. Mine Supt.

15. Production Rate

12. Mill Supt.

16. Mill: Type & Cap.

13. Men Employed None

17. Power: Amt. & Type

18. Operations: Present None at present

19. Operations: Planned

20. Number Claims, Title, etc. Four patented, two unpatented

21. Description: Topography & Geography

22. Mine Workings: Amt. & Condition See Statement Letter dated August 18, 1942, and filed with this report.

(over)

23. Geology & Mineralization

24. Ore: Positive & Probable, Ore Dumps, Tailings 400,000 tons probable ore estimated.

24A. Dimensions and Value of Ore body Approximately 400 ft.long, 75 ft.wide, 90 ft. depth, $5 average accepted by examining engineer.

25. Mine, Mill Equipment & Flow-Sheet

26. Road Conditions, Route North 7th Street Phoenix; 10 miles paved, 20 miles improved, 5 miles graded.

27. Water Supply Can be developed at small depth on one patented claim.

28. Brief History ~~Refer Statement letter dated August 18, 1942~~ First Located in early 1870's

29. Special Problems, Reports Filed

30. Remarks See Statements dated August 18, 1942

31. If property for sale: Price, terms and address to negotiate. $75,000. Two months for examination. First payment $10,000. 10 per cent royalties. Annual payments minimum $5,000 from royalties or from capital. Cash price $60,000. Address owner.

32. Signature..... Theodore B. Jones

33. Use additional sheets if necessary.

September 8, 1942

Mr. Theodore B. Jones
Cave Creek, Arizona

My dear Mr. Jones:

I am enclosing herewith a copy of mine owner's report filed with this department covering the MASHACHETY MINE in the Cave Creek Mining District, Maricopa County.

I shall be glad to submit this report to anyone making inquiry for a property such as yours.

Assuring you of my desire to be helpful, and with best wishes, I am

Yours very truly,

J. S. Goupal

JSG:hal

Enclosure

August 22, 1942

Mr. Theodore D. Jones
Cahava and Y Bench Ranch
Cave Creek, Arizona

Dear Mr. Jones:

Many thanks for your letter of August 19 with the statement regarding your properties. I am enclosing a mine owner's report form and would appreciate it if you would fill this one in as complete detail as possible and let us file this in our office so that we may have it to refer to it in case we have any inquiries for free milling gold properties. I will also place your letter in this same file so that it may be referred to.

Whereas there is not much interest in straight gold properties at this time, I do feel certain there is a future and certain minded interest will show interest in gold properties for postwar activities.

With best wishes and kindest regards,

I am,

Very truly yours,

J. S. Coupal,
Director

JSC:hal

Enclosure

Apr. 22, 1959

Mr. Gordon Berryman,
3334 N Treat Circle,
Tucson, Ariz.

Dear Mr. Berryman:-

Enclosed is assay certificate for the sample we took of that ore pile along the old track at the Mashekety. I am afraid that it tells the story. It looked fully as good as the mass of the ore in place, in fact had less waste in it. It was no doubt put there to be milled and its low grade is probably the reason the millman had to scrape the silver coating off the amalgamating plates to get any amalgam. If that sample had run $9.00 I would advise more sampling, and though it is dangerous to base an opinion on a single sample, I can see no hope that thorough sampling would come up with an average of $7.00 or more. And that is what it would take to justify the big capital expenses and permit an operating profit under modern costs.

My charges for services to date will be $78.00, including cost of assay. You can send check at your convenience.

In case you feel that you want to be more certain, I would suggest about ten scattered large samples. The total cost of such work, including assays, would be about $175.00. I am afraid, however, that it would be a waste of money.

It was a pleasure to meet you and the other boys, and I enjoyed our little trip.

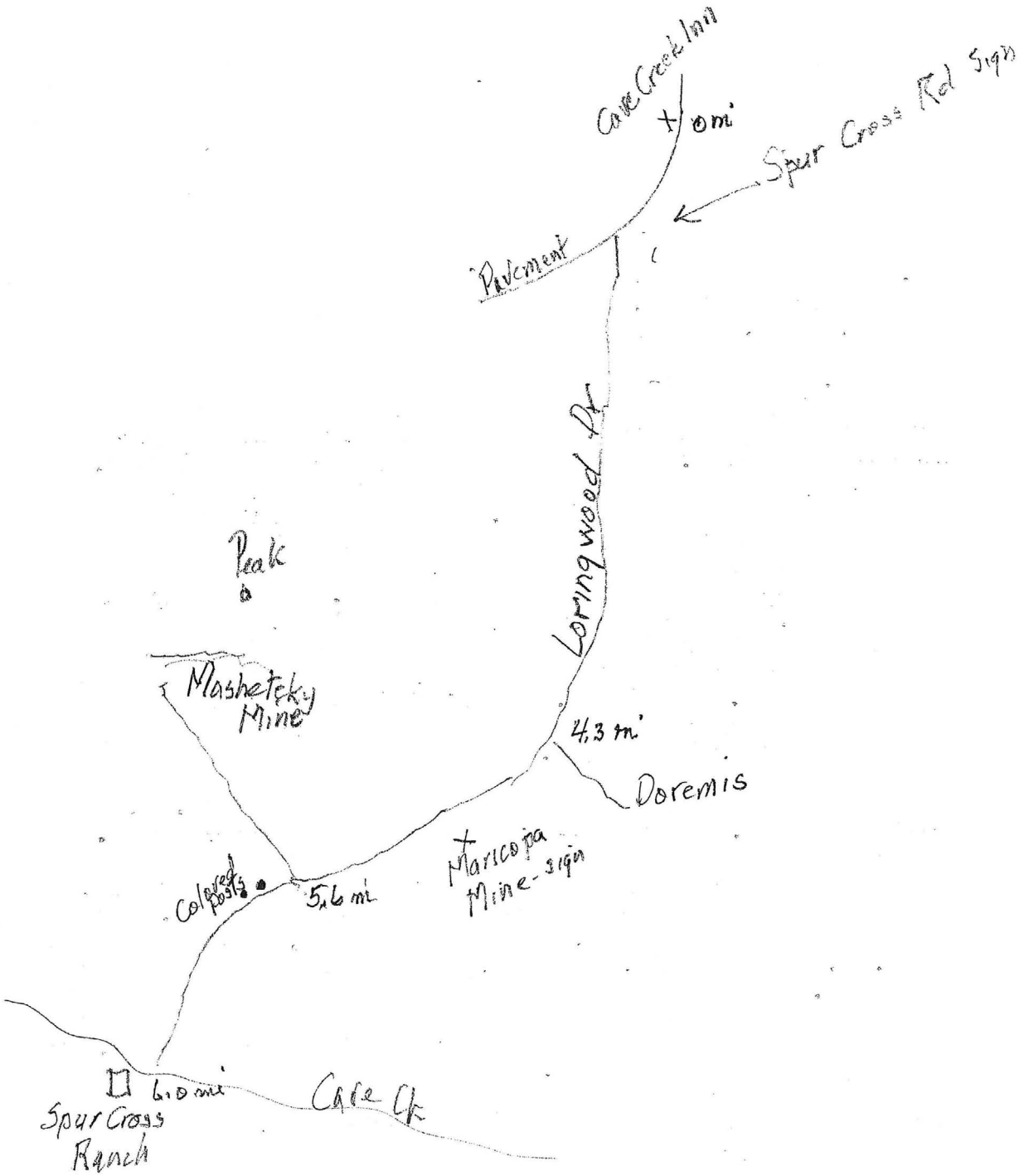
Yours Very Truly,

G. H. [illegible]

Mr. Coupal:

When you and I again meet we can discuss matters of intrest to both

T.B.J.


Cave Creek Intl
+/ 0 mi
Spur Cross Rd sign
Pavement
Loring wood Dr
Peak
Mashetsky Mine
4.3 mi
Doremis
Colored posts
5.6 mi
Maricopa Mine - sign
6.0 mi
Spur Cross Ranch
Cave Ck

ARIZONA TESTING LABORATORIES
A DIVISION OF CLAUDE E. McLEAN & SON LABORATORIES, INC.
PHONE ALpine 3-6272 817 WEST MADISON ST. P. O. BOX 1888 PHOENIX
Chemists . . . Engineers

For Mr. C. H. Dunning
815 West Madison
Phoenix, Arizona

Date April 21, 1959

Sample of Ore

Received: ------

Submitted by: Same

ASSAY CERTIFICATE

Gold figured at $ 35.00 per ounce. Silver figured at $ 0.90 per ounce.

Lab. No.	Identification	Gold		Silver		Percentages	
		Oz. per Ton	Value	Oz. per Ton	Value		
146685	No Mark	0.08	$2.80				

REGISTERED ASSAYER CERTIFICATE EXPIRES CLAUDE E. McLEAN DEC. 31, 19 57 ARIZONA, U.S.A.

Respectfully submitted,
ARIZONA TESTING LABORATORIES
Claude E. McLean

Charges: $ 3.00

10M AMPCO