



CONTACT INFORMATION

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Arizona Department of Mines and Mineral Resources Mining Collection

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PRINTED: 12/17/2002

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: CATALINA MINES

ALTERNATE NAMES:

PIMA COUNTY MILS NUMBER: 541

LOCATION: TOWNSHIP 11 S RANGE 15 E SECTION 36 QUARTER S2
LATITUDE: N 32DEG 26MIN 23SEC LONGITUDE: W 110DEG 45MIN 57SEC
TOPO MAP NAME: MOUNT LEMMON - 15 MIN

CURRENT STATUS: PAST PRODUCER

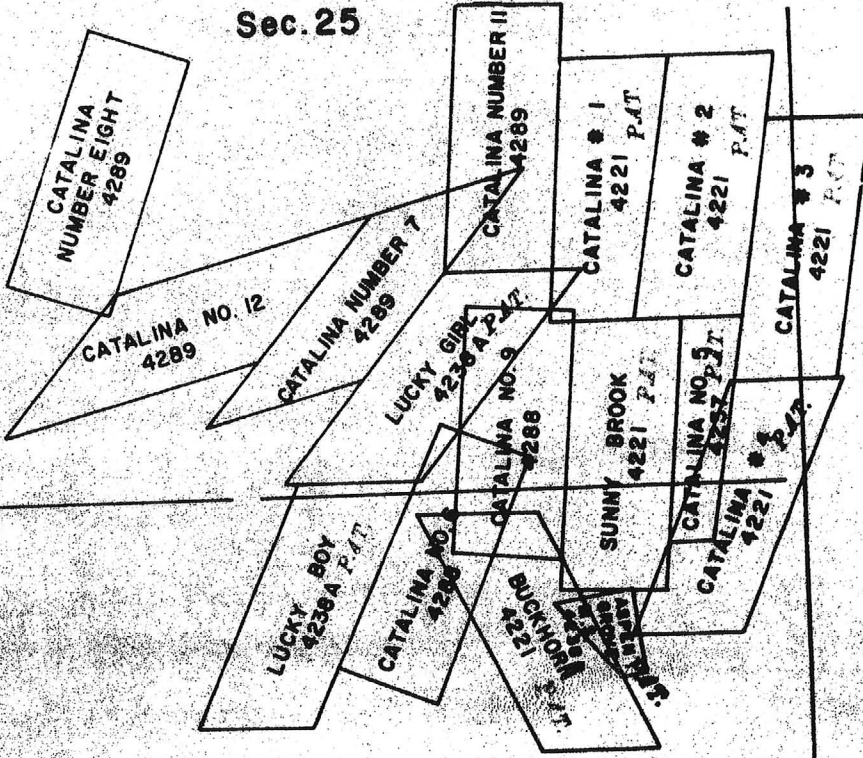
COMMODITY:

COPPER SULFIDE
COPPER OXIDE
SILVER
GOLD LODE
TUNGSTEN

BIBLIOGRAPHY:

USBM FILE NO. 463.2/14112 BY CURTIS G. MOHNEY
USBM FILE NO. 463.2/14002 BY JOHN M. PRICE
ADMMR CATALINA MINES FILE
ADMMR "U" FILE CU 57

Sec. 25



Sec. 36

679

SE 1/4, T.11S., R.15E.
OLD HAT DIST.

ARIZONA DEPARTMENT OF MINERAL RESOURCES
MINERAL BUILDING, FAIRGROUNDS
PHOENIX, ARIZONA

~~December 10, 1957~~

February 7, 1958

To the Owner or Operator of the Arizona Mining Property named below:

✓ CATALINA MINE
(Property)

COPPER
(ore)

We have an old listing of the above property which we would like to have brought up to date.

Please fill out the enclosed Mine Owner's Report form with as complete detail as possible and attach copies of reports, maps, assay returns, shipment returns or other data which you have not sent us before and which might interest a prospective buyer in looking at the property.

FRANK P. KNIGHT,
Director.

✓ Cataline Mine consists of four patented mining claims near the summit of Mt. Lemmon in the Santa Catalina Mountains. I have sold the surface rights but retained the mineral rights including the right to "win, work and carry away said mineral extracted therefrom." There has been no mining activity in recent years.

Enc: Mine Owner's Report

✓ COPPER

Note:
Please change my address to:

2-13-58

✓ 2146 E. 4th St.
Tucson, Arizona

August 7, 1943

Mr. Randolph Jenks
P. O. Box 4084
University Station
Tucson, Arizona

Dear Pat:

In reply to your letter of August 6 I have looked through our files and we do not have a copy of your loan application.

No copies of loan applications are retained in the Phoenix office of the R.F.C. It would be necessary for you to write to the R.F.C. Mine Loan Division, Washington, D. C., and ask them to mail their copy to you.

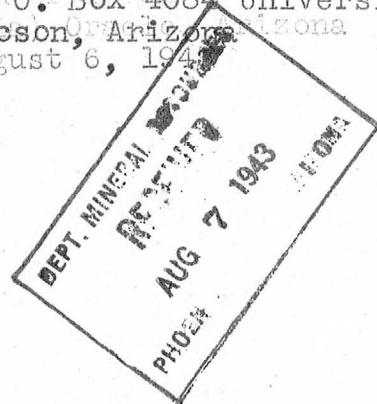
With best wishes, I am

Yours very truly,

J. S. Coupal, Director

JSC:LP

P.O. Box 4084 University Sta.
Tucson, Arizona
August 6, 1943



Mr. J. S. Coupal, Director
Department of Mineral Resources
State of Arizona
413 Home Builders Building
Phoenix, Arizona

Dear Mr. Coupal:

In 1941 or 1942 I made RFC loan application Class B for \$20,000.00 on the Catalina group of mining claims. Unfortunately I failed to retain a copy with the various enclosures of this loan application. At this time I need to refer to the data and information contained on these loan applications. I believe that you have in your office, or that there is a copy in the RFC files at Washington, D. C., a copy of this application made by me. Would you be so kind as to mail me the copy that you have if you can possibly find it.

Thanking you in advance and with kindest regards, I remain,

Sincerely,

Pat Jenks

Randolph Jenks

RJ/n

MEMORANDUM

To: Director, Dept. Mineral Resources
From: George A. Ballam

This property, consisting of 9 patented and 2 unpatented claims, is situated at the top of Mt. Lemmon, in the Old Hat Mining District. The owner is Randolph Jenks, Univ. Sta., Tucson. It has been reported on mine owners reported, but since the owner is applying for a "B" loan, and desired assistance in filling out the application, I spent several hours on the property and later assisted him with the loan forms. ✓

The mineralized zone lies under a cap of sedimentaries which form the top of the ridge and ~~xxx~~ is underlain by granite and granitic schist. The outcrop may be followed very easily for a distance of about 4000' around the mountain, and in numerous places cuts and small tunnels have been made into it. It varies from a few feet to about twenty feet in thickness. The copper ore is largely oxidized, although there are one or two showings of fairly high grade sulfide in the tunnels which have been worked from time to time. The chief difficulty seems to have been that of transportation, past shipments having been packed out by burros. The owner is making a road into the property to qualify for the development loan. He proposes to tunnel through the ridge to determine continuity of the ore body, also to cut possible ore shoots which J.B. Tenney, Grady Wilson and others who have examined the property, believe exist. The entire property is heavily timbered, timber rights being vested in the owner. ✓

This property is one of those which would be benefitted by the Oracle Ridge road which would bring it within 16 miles of Oracle. At present the only road to it is by way of the Control, a distance of 33 miles.

George A. Ballam

WJC

Miles

Phoenix, Arizona, 16 April 1941

M E M O R A N D U M

TO: Miles ^{III}. Carpenter, Field Engineer

FROM: J. S Coupal, Director

SUBJECT: Mine Owners Report

When the office was first opened and records were started, a card as follows:

COPPER - 8 claims, patent applied for on
6 in Forest; elevation 7,800'; need short road
to highway and mine road; developed by 700' of
workings; copper carbonates (some sulphides)
flat bedded in altered schists from 5 to 15'
thick, about 2,000 feet horizontal extent;
2% to 12% copper, silver \$2 to \$4 per ton, gold
50¢ to \$1.50 per ton; water could be developed;
for sale, terms on application; Old Hat Mining
District, Pima Co.

MC-11 *

was put into the files, and in making the index to
the key numbers, the girl failed to list MC-11.

I have gone through all the C FILE and there is no
such description as on the enclosed card. She evidently
* got the wrong KEY NUMBER.

Do you happen to recognize such a property or do you
think it would be possible to find out who owns such a
property.

Your efforts will be appreciated.

J. S. Coupal, Director

next day

MC-11 & MC-2

same

ME-2
Tucson, Arizona, 18 January 1940

I am today sending copy of your Mine Owners Report to Mr. Th. von Rolf, 1034 Central Bldg., Los Angeles, California, who has made request for the same.

DEPARTMENT OF MINERAL RESOURCES, J. S. Coupal
Director

CATALINA MINE.

Mr. Randolph Jenks,
University Station,
Tucson, Arizona

Tucson, Arizona

July 30, 1943

PRELIMINARY REPORT
on
✓ Catalina Mine
Old Hat Mining District
Pima County, Arizona

One and a half Miles East of Mount Lemmon

CONCLUSION:

This flat-lying contact deposit between granite and calcareous shale which outcrops on the north and south flanks of Catalina Mine Ridge has a total proved mineralized area of about 3,000 by 800 feet or 2,400,000 square feet. If a third or this area is assumed as intensely enough mineralized to constitute commercial concentrating ore there is an ore area indicated of 800,000 square feet with a possible unproved increase to the West. The ore thickness in the outcrops varies from a few inches to a maximum of ten feet. Assuming an average ore thickness of 3 feet, there is a possibility of $800,000 \times 3/10 = 240,000$ tons of ore.

The outcrop is easily followed by the occurrence of garnet, epidote and other contact minerals accompanied by more or less oxidized copper minerals (malachite, azurite, and chrysocolla) and iron oxides (limonite and jarosite). In the most extensive workings near the eastern end of the deposit where tunnels have been driven fifty feet and more into the ridge copper and iron sulphides (chalcopyrite, copper glance and pyrite) start to appear. Not enough work has been done to determine what the grade of the primary sulphide ore would be. There is, however, a possibility of sufficiently high grade to constitute commercial concentrating ore after the mine had been developed to extract the ore to the best advantage.

Proof of the grade and size of the ore body could be yielded cheaply by shallow diamond drill holes from the top of the ridge from three set-ups, as shown on the accompanying map. The control set-up indicated by "A" would be the logical first set up, followed by "B" and "C". By fanning four to five holes from each set-up, the extent and grade of the probable ore body could be quickly determined. These holes would probably have an average depth of not over 300 feet with a maximum depth of not over 500 feet.

The mine is easily accessible by road to the Mount Lemmon highway. Ore could be hauled to the Control Mine concentrator for treatment, a distance of 7 miles. The cost of this haul should not exceed \$2.00 a ton on regular haul contract. The ore would probably be very similar in mineral content to that being mined and concentrated at the the Control Mine from a similar contact deposit.

The cost of mining, after an extraction tunnel were driven below the ore body with riase connections to the ore body, should not exceed \$3.00 a ton. The milling charge should not exceed \$3.00 a ton and the haul and smelter treatment at Hayden, assuming a ten to one ratio of concentration, should not exceed \$1.00 a ton of crude ore, making a total operating cost not to exceed \$9.00 a ton and probably somewhat less than this figure. Assuming a net concentration and smelting extraction of 80% and a War premium copper price of 20 cents, the ore would have to average at least 2.8% copper assuming no gold and silver content. This minimum grade to meet operating costs would be reduced if appreciable precious metals exist. Assuming \$1.00 net of gold and silver, the minimum grade of copper could be about 2% to break even.

I would strongly recommend the diamond drill test, starting with the "A" set-up, in view of the large potential easily extracted tonnage, the existence of a near-by operating concentrator and the probable War premium price for copper.

The greater part of the probable ore body is covered by nine patented mining claims: Catalina 1 to 5 inclusive, Sunny Brook, Buckhorn, Lucky Girl and Lucky Boy. To cover open fractions, patent is to be applied for 5 additional claims: Catalina 6, 7, 9, 10, and 11. On each of these additional claims, the discovery points are located definitely on the contact. I have examined the location points on each of these new claims and on all but two of them there is sufficient copper to warrant patent. On two of them: Catalina 6 and 9 the discovery points are definitely on the contact but work is yet to be done. These two discovery points lie between strong copper showings on the Lucky Boy and Lucky Girl to the West and Sunny Brook to the East with definite but weaker showings on the Buckhorn and on Catalina No. 6 claim itself. The probability is that work at these two discovery points will show some copper, but even without copper, or with weak copper, patent is warranted in order to cover the open fractions on the ore zone to the north.

If the diamond drilling proves sufficient tonnage and high enough grade, the probable capital expenditure to prepare for economic extraction at a rate of 50 tons a day, assuming a favorable milling contract with the Control Mine, would be about \$40,000.00 including equipment, development work and ample working capital.

Presented by:

James B. Tenney
Mining Engineer and Geologist

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Date June 10, 1939

✓
Mine Catalina Mines

District Old Hat.

Location 1½ miles East of Mount
Lemmon, Santa Catalina Mts.

Former name Same

Owner Randolph Jenks ✓

Address Randolph Jenks
University Station, Tucson, Arizona

Operator Randolph Jenks

Address

President

Gen. Mgr.

Mine Supt.

Mill Supt.

✓
Principal Metals Copper and Silver

Men Employed

Production Rate

Mill: Type & Cap.

Power: Amt. & Type

Operations: Present Small. Occasional shipments of ore to Hayden Smelter.

Operations Planned Mill. Before placing mill I need to have an engineer's full report on type and size of construction.

Number Claims, Title, etc. 6 claims in a group owned by Randolph Jenks.

Description: Topog. & Geog. Contact Granite and Limestone.
Carbonates and sulphides. Considerable bornite, some calco pyrite.

Mine Workings: Amt. & Condition Several tunnels on either side of a mountain ridge about 3,000 feet thick, 1 large flat deposit, probably continuous thruout the whole ridge. Tunnels pointing toward each other have good ore in place, on both sides of the ridge.

(over)

Geology & Mineralization

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Ore: Positive & Probable, Ore Dumps, Tailings Assays: 4 1/2%, 5 1/2%, 6%, 8%, 10 1/2% copper.
Silver values per ton \$2.00, \$2.75, \$3.00, \$3.50.
Gold values per ton 50¢ to \$1.50.

Mine, Mill Equipment & Flow Sheet

Road Conditions, Route Summerhaven, then 1/2 mile west.

Water Supply Adequate, stream nearby.

Brief History Claims taken out in 1912, several small shipments of \$30 and \$35 pay ton ore made to Hayden Smelter. Known as the Westfall claims originally.

Special Problems, Reports Filed

Remarks Should be investigated thoroughly as I believe it is a large, extensive deposit, warranting working on a large scale.

If property for sale: Price, terms and address to negotiate.

Signed Randolph Jenks
University Station, Tucson, Arizona.

Use additional sheets if necessary.

DEPARTMENT OF MINERAL RESOURCES

Service Report

Date June 6, 1942

Nature of Call Personal

Place C. of C. Tucson

Name Randolph Jenks,

Address Univ. Sta., Tucson.

Catalina Mine

Subject Desired aid in applying for
zero quota, serial no., etc.

Action Assisted in making applications.

Signed

George A. Ballan

Use other side if necessary

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

McV

Date July 11, 1939

Mine Cataline Group of Mining Claims

District Old Hat

Location Approximately 1 1/2 miles east of
Mt: Lemmon, Santa Catalina Mts. Arizona

Former name

Owner R. Jenks

Address University Station

Operator Same

Address Tucson, Arizona

President

Gen. Mgr. R. Jenks

Mine Supt.

Mill Supt.

Principal Metals Copper

Men Employed 2 - 3

Production Rate

Mill: Type & Cap.

Power: Amt. & Type

Operations: Present Development and extraction and sorting of ore for shipment

Operations Planned Shipment of ore. Possibly erection of mill for ore concentration

Number Claims, Title, etc. 8 claims - Patent applied for on 6 in Forest

Description: Topog. & Geog. Steep, mountainous, wooded country, in Sabino canyon and
Canado del Oro watersheds, about 7800' elevation

Mine Workings: Amt. & Condition About 700 feet of workings

Geology & Mineralization Ore values occur as copper carbonates as far as developed, with some sulphides. Ore lies in flat beds in altered schist. Thickness of beds varies from 5 to 15 feet.

Date July 11, 1939

Ore: Positive & Probable, Ore Dumps, Tailings Ores seem to extend horizontally for 2,000 feet. Assay returns show values from 2% to 12% with stringers of 35%, silver from \$2.00 to \$4.00 per ton. Told from 50¢ to \$1.50 per ton.

Mine, Mill Equipment & Flow Sheet None

Road Conditions, Route Near Summerhaven via Oracle. Enquire at Oracle - no road - pack out by burros.

Water Supply Two stream beds. Water supply partially developed and could easily be increased.

Brief History Located 1911-12 by J. F. Westfall and R. N. Leatherwood.

Special Problems, Reports Filed Transportation

Remarks

If property for sale: Price, terms and address to negotiate.
Yes - see -

Signed..... Randolph Jenks

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

MC-11

Date July 11, 1939

Mine Catalina Group of Mining Claims

District Old Hat

Former name

Owner R. Jenks

Operator same

President

Mine Supt.

Principal Metals Copper

Production Rate

Power: Amt. & Type

Operations: Present

Development and extraction & sorting of ore for shipment

Operations Planned

shipment of ore. Possibly erection of mill for ore concentration.

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Mine Workings: Amt. & Condition

about 700 feet of workings

Geology & Mineralization

Ore values occur as copper carbonates as far as developed, with some sulphides. Ore lies in flat beds in altered schist. Thickness of beds varies from 5 to 15 feet.

Ore: Positive & Probable, Ore Dumps, Tailings

Ore seems to extend horizontally for 2000 feet.

Mine, Mill Equipment & Flow Sheet

Assay returns show values from 2% to 12% with stringers of 35%. Silver from 2 to 84 per ton - Gold from 50¢ to 81.50 per ton -

none

Road Conditions, Route

Near Summerhaven via Oracle. Enquire at Oracle - no road - pack out by burros

Water Supply

Two stream beds. water supply partially developed and could easily be increased -

Brief History

Located 1911-12 by J. F. Westfall & R. N. Leatherwood

Special Problems, Reports Filed

Transportation.

Remarks

If property for sale: Price, terms and address to negotiate.

yes - see

Signed

Randolph Jenks

Same has
one or two
to be returned.
MC-2

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Geology & Mineralization

Date June 10th 1939,

Mine Catalina Mines.

District Old Hat.

Location 1 1/2 miles East of Mount
Lwmmom, Santa Catalina Mts.

Former name Same.

Owner Randolph Jenks, ✓

Address Randolph Jenks,
University Station
Tucson, Arizona.

Operator " "

Address

President

Gen. Mgr.

Mine Supt.

Mill Supt.

Principal Metals Copper and Silver ✓

Men Employed

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Mill: Type & Cap.

Power: Amt. & Type

Operations: Present Small. Occasional Shipments of Ore to Hayden Smelter.

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baronite

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Geology & Mineralization

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Date June 10th 1934

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Silver values per ton \$2.00, \$2.75, \$3.00, \$3.50; ~~maxima~~
Gold values per ton 50¢, to \$1.50.

Mine, Mill Equipment & Flow Sheet

Road Conditions, Route

Summerhaven, then 1/2 mile west.

Water Supply

Adequate, stream nearby.

Brief History

Claims taken out in 1912, several small shipments of \$30 and \$35 per ton ore made to Hayden Smelter. Known as the Westfall claims originally.

Special Problems, Reports Filed

Remarks

Should be investigated thoroughly as I believe it is a large, extensive deposit, warranting working on a large scale.

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Signed

Randolph Jenks
Randolph Jenks

Use additional sheets if necessary.

University Station, TUCSON, ARIZONA.

McV

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Date July 11, 1939

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District Old Hat

Location Approximately 1 1/2 miles east of
Mt: Lemmon, Santa Catalina Mts. Arizona

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Mine, Mill Equipment & Flow Sheet

None

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Transportation

Remarks

If property for sale: Price, terms and address to negotiate.

Yes - see -

Signed..... Randolph Jenks