



CONTACT INFORMATION

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Arizona Department of Mines and Mineral Resources Mining Collection

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02/13/87

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: EL TIGRE ET AL

ALTERNATE NAMES:

EL MILAGRO
SANTA MARTHA PLACER

MARICOPA COUNTY MILS NUMBER: 225B

LOCATION: TOWNSHIP 6 N RANGE 4 W SECTION 20 QUARTER NW
LATITUDE: N 33DEG 51MIN 12SEC LONGITUDE: W 112DEG 42MIN 13SEC
TOPO MAP NAME: WICKENBURG SW - 7.5 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:

COPPER
GOLD LODE
LEAD
IRON
SILVER
VANADIUM
MANGANESE

BIBLIOGRAPHY:

USGS WICKENBURG SW QUAD
ADMMR EL TIGRE ET AL FILE
ADMMR "U" FILE

NAME OF MINE: EL TIGRE
EL MILAGRO
EL CENTENILLO

COUNTY: MARICOPA
DISTRICT: MORRISTOWN
METALS: CU

OPERATOR AND ADDRESS:

MINE STATUS

DATE:

N.D. Hightower
18 S. 9th Street
Phoenix, Arizona

DATE:

10/4/43

Shipping car copper ore
to Hayden.

3/1/44

Operations suspended

EL TIGRE

Cu, Au, Pb, Ag

Maricopa 7-3 T 6 N, R 5 W

Dr. N. G. Hightower, 18 S. 9th St., Phx.

'43

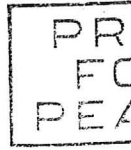
EL MILAGRO

Cu, Au, Ag, Fe

Maricopa 7-3 T 6 N, R 5 W

Dr. N. G. Hightower, 18 S. 9th St., Phoenix

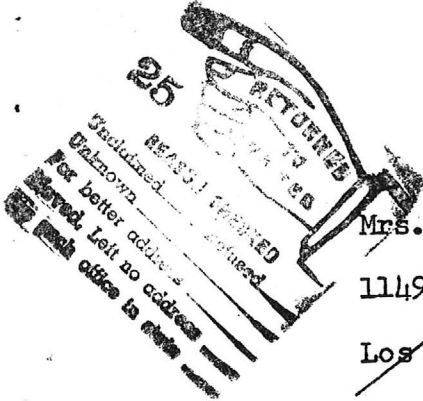
'41



Highway 5-31-58

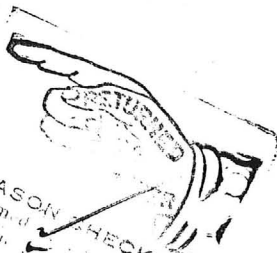
Mr. Balez Reyes **NO SUCH** STREET
318 W. Lincoln St. NUMBER
Phoenix, Arizona

13m



Mrs. Reyes Balsz
1149 E. 59th St.
Los Angeles, Calif.

REASON CHECKED
Unclaimed _____ Refused _____
Unknown _____
For better address _____
Moved, Left no address ☒
No such office in state _____



REASON CHECKED
Unclaimed _____
Unknown _____
Insured, not returned _____
Moved, Left no address _____
No Such Office in state _____
Do not return in this _____
POSTAGE PAID
El Tigre Gold Mining Company
Aguila, Arizona

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

~~--December 10, 1957~~

February 13, 1958

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

<u>EL TIGRE, EL MILAGRO.</u>	<u>COPPER GOLD SILVER</u>
(Property)	(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.

Enc: Mine Owner's Report

Report as of June 20, 1939

Date Feb. 15, 1949

INFORMATION SHEET

Please return to -

E. D. Arthur, Mining Commissioner
Los Angeles County Chamber of Commerce
1151 S. Broadway, Los Angeles - 15 - Calif.

Copy

Name of Mine El Tigre, El Milagro, Santa Martha Placer

District _____ P.O. Address _____

Owner's name and address Mrs. Balez-Reyes, 318 W. Lincoln St. Phoenix

Operator's name and address Dr. N. D. Hightower, 1109 S. 1st Ave. Phoenix

Supt. _____ P.O. Address _____

Location of Mine (County - also distance and direction from
nearest town) Southwest Northwest of Morristown

Kind of Ore _____

How developed Various shafts and tunnels of different depths in
fairly good condition

Source of Power _____

Equipment _____

Number of men employed _____

Shipping facilities _____

Plans for future operations and expansion Mining, milling and con-
centration of ores.

Number of claims, Title, etc. Sixteen claims -

El Tigre #1,2,3,4, & 5 - Book 32 of Mines pp. 534-8

El Milagro #1,2,3,4,5,6,7,8,9,10 - Book 32 pp 408-417

Santa Martha Placer

Topog. & Geol. Andesitic and rhyolitic lavas, lying on basement of
schist and granite. Altitude about 2000 feet. Complex faulting and
abundant veins of quartz and quartz-porphry and limestone.

Signed _____

El Tigre Mine and El Milagro Mine; Santa Maria Placer
~~El Tigre Mine~~ ~~Santa Maria Placer~~ T. 6N., R. 5W
Maricopa County. Sec 14/13 — name SW?
25/30?

reference: Arizona Dept. of Mineral Resources
El Tigre, El Milagro, Santa Martha Placer (file)

present owner: ?

history of the mine:

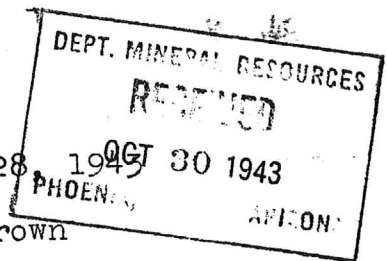
Apparently the property was originally worked by Mexicans for many years so that the ore is exposed in many places. During the 1940's the properties were ~~owned and~~ operated by Dr. N.D. Hightower of Phoenix, Az. and owned by Mrs. Reyes Balez ^{or Mrs. Balez Reyes} of Los Angeles, Cal. Some tunnels were dug and drifts from the main tunnel. No work since 1940's (probably 1941).

minerals: copper, gold, silver

geology: veins of mangiferous calcite; granite-schist basement; igneous intrusions and limestones

property consists of 16 claims

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT



Mine EL TIGRE & EL MILAGRO

Date OCTOBER 28, 1943

District VULTURE mining district of
Maricopa county, Arizona

Engineer B. W. Brown

Subject: Examination of the El Milagro-El Tigre holdings of Dr. N. D. Hightower, address 18 South 9th St. Phoenix, Ariz..

The El Tigre and El Milagro holdings of Dr. N. D. Hightower, address 18 South 9th St. Phoenix, Ariz., consist of 36 unpatented mining claims which are located in the Vulture mining district of Maricopa county, Arizona. The main workings on the El Tigre group are connected with the newly constructed Good Luck Spar access road by about $\frac{1}{2}$ mile of fair haul road. The Good Luck Spar access road is a graded and maintained road connecting the Good Luck Spar mine with Morristown. The Hightower property is situated about five miles from the Morristown loading ramp on the Santa-Fe railroad.

The property is on the southeast slope of the Vulture mountains and is in a very arid region. No water has as yet been developed on the property. The mine is conveniently located with respect to the highway and railroad except at times of water in the Hassayampa river when the crossing cannot be made

The general geological aspect of this area is controlled by early andesitic and rhyolitic extrusions that overlie a pre-cambrian complex of schist. Fragments of schist are often found included in the andesite. The lavas often have zones of limey alteration. In this area are found dykes of clastic material cemented by calcite and other intruding mineralizers.

The principal workings of the El Tigre group are found on the contact of a rhyolite overflow with what is probably an andesite lava. The mineralizing solutions have here cemented a six foot dyke of clastic volcanic-material with oxides of iron and manganese, thick channels and lenses of manganiferous calcite and some fine secondary coppers. The carbonates of copper favor the hanging wall and occur as flat lenticular beds up to 16 inches in thickness. There has been some alteration and replacement in the capping and also, of the clastic inclusions. The strike of the El Tigre dyke is roughly East and West and the dip to the South varies from a more or less flat pitch to nearly 45 degrees. At the time of examination work was being done to further expose a 16 inch topping of good copper ore between the El Tigre portal and the rhyolite cap-rock.

The El Tigre tunnel represents the chief emphasis on this part of the group. The workings are said to be quite extensive but only a few hundred feet of the tunnel was examined. The El Tigre dumps were

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine El Tigre-El Milagro

Date

District

Engineer

Subject: Continued

not sufficiently large to account for more than a fraction of the work done, and it is within reason that considerable material has been carried away. Although no positive information was available on the former working of the property, it is reported that both the El Milagro and El Tigre were worked at an early date for gold which was recovered by very primitive means.

The El Milagro adjoins the El Tigre on the opposite side of a dividing ridge. It presents a different geological picture. The mineralization on the Milagro group follows siliceous fractures in the andesite or ^{is} disseminated sporadically throughout the Andesite itself. The iron, manganese and calcite are not so much in evidence. The copper, too, does not appear to be as persistent. Of principal interest on the El Milagro group was the El Milagro shaft which is variously reported to be several or many hundred feet deep. This shaft is inaccessible due to the removal of timber but is not believed to be caved or wet. As with the El Tigre group, very little is known of the actual production of these workings. It is also reported that the El Milagro shaft was worked at one time for gold.

In conclusion, it is recommended that a more thorough examination be made of this property than is within the scope of this report to determine its true value as a possible producer of gold bearing ore.


B. W. Brown- FIELD

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine EL TIGRE & EL MILAGRO Date October 28, 1943
District Vulture Mining District, Maricopa Co. Engineer B. W. Brown
Subject: Examination of the El Milagro-El Tigre holdings of Dr. N. D. Hightower,
address 18 South 9th St., Phoenix, Arizona.

The El Tigre and El Milagro holdings of Dr. N. D. Hightower, address, 18 South 9th St., Phoenix, Ariz., consist of 36 unpatented mining claims which are located in the Vulture mining district of Maricopa County, Arizona. The main workings on the El Tigre group are connected with the newly constructed Good Luck Spar access road by about 1/2 mile of fair haul road. The Good Luck Spar access road is a graded and maintained road connecting the Good Luck Spar mine with Morristown. The Hightower property is situated about five miles from the Morristown loading ramp on the Santa Fe railroad.

The property is on the southeast slope of the Vulture mountains and is in a very arid region. No water has as yet been developed on the property. The mine is conveniently located with respect to the highway and railroad except at times of water in the Hasayampa River when the crossing cannot be made.

The general geological aspect of this area is controlled by early andesitic and rhyolitic extrusions that overlie a pre-cambrian complex of schist. Fragments of schist are often found included in the andesite. The lavas often have zones of liney alteration. In this area are found dykes of clastic material cemented by calcite and other intruding mineralizers.

The principal workings of the El Tigre group are found on the contact of a rhyolite overflow with what is probably an andesite lava. The mineralizing solutions have here cemented a six foot dyke of clastic volcanic-material with oxides of iron and manganese, thick channels and lenses of manganiferous calcite and some fine secondary coppers. The carbonates of copper favor the hanging wall and occur as flat lenticular beds up to 16 inches in thickness. There has been some alteration and replacement in the capping and, also, of the clastic inclusions. The strike of the El Tigre dyke is roughly east and west and the dip to the south varies from a more or less flat pitch to nearly 45 degrees. At the time of examination work was being done to further expose a 16-inch topping of good copper ore between the El Tigre portal and the rhyolite cap-rock.

The El Tigre tunnel represents the chief emphasis on this part of the group. The workings are said to be quite extensive but only a few hundred feet of the tunnel was examined. The El Tigre dumps were not sufficiently large to account for more than a fraction of the work done, and it is within reason that considerable material has been carried away. Although no positive information was available on the former working of the property, it is reported that both the El Milagro and El Tigre were worked at an early date for gold which was recovered by very primitive means.

The El Milagro adjoins the El Tigre on the opposite side of a dividing ridge. It presents a different geological picture. The mineralization on the Milagro group follows siliceous fractures in the andesite or is disseminated sporadically throughout the andesite itself. The iron, manganese and calcite are not so much in evidence. The copper, too, does not appear to be as persistent. Of principal interest on the

October 28, 1943

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In conclusion, it is recommended that a more thorough examination be made of this property than is within the scope of this report to determine its true value as a possible producer of gold bearing ore.

/s/ B. W. Brown - FIELD

17 January 1941

Dr. N. D. Hightower,
830 East Jefferson Street,
Phoenix, Arizona.

Dear Sir:

In accordance with telephone conversation of today, I am enclosing herewith blank Mine Owners Reports, which I should suggest that you fill out in detail and return to this office as early as possible so that information may be available on your three properties, and in order that correct information may be entered on our list of mines for sale, which we are preparing for publication.

Please return these reports at your earliest convenience, and oblige

Yours very truly,

J. S. Coupal
Director

JSC-jrf
encls.

August 12, 1943

Mr. S. Thomas
Route 9, Box 464
Phoenix, Arizona

Dear Jack:

A Dr. N. H. Hightower, 18 South Ninth Street,
Phoenix, has called at the office and is under-
taking a copper leaching project at the El Tigre
Mine near Morristown.

I have referred him to you and he will un-
doubtedly write you. I believe you can be of
great assistance to Dr. Hightower in his work and
it may be of benefit to you.

Very truly yours,

J. S. Coupal
Director

JSC:JE

August 13, 1943

MEMORANDUM

To: BAHNGRELL W. BROWN
From: J. S. Coupal
Subject: El Tigre Mine
Dr. N. H. Hightower
18 South 9th Street
Phoenix, Arizona

Dr. Hightower has the El Tigre and the El Milagro located near Morristown, and he contemplates certain work. He wants to have one of the Department engineers go over the property with him so as to advise him regarding operations which he plans. I suggested to Dr. Hightower that you could meet him on Tuesday, August 17, at 8:30 A.M. at the Morristown Post Office. I named Tuesday as I know you have a meeting at the Wickenburg Council on Wednesday, August 18 and did not want to interfere with any field work you might want to do in that area on Wednesday.

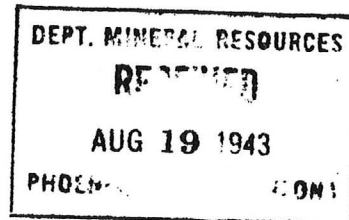
I am in hopes that Jack Thomas will be with Dr. Hightower and you will find that Thomas is a very practical man in the leaching of copper ores.

Please write Dr. Hightower and advise him whether or not you can meet him at the Morristown Post Office on Tuesday, August 17 at 8:30 A.M.

P.S. Dr. Hightower is a very capable man and is planning not only some mining but also to leach some copper ore. He is also planning to put in a small furnace to make sponge iron out of a hematite deposit nearby.

J.S. Coupal

C
O
P
Y



August 18, 1943

B. W. Brown - Field
Box 1431
Prescott, Ariz.

Dr. N. D. Hightower
18 South 9th St.
Phoenix, Ariz.

Dear Dr. Hightower,

Thank you very much for your telegram notifying me that the Hassayampa River could not be crossed at Morristown and hence your property could not be visited.

Please keep in touch with me so that we may make arrangements to visit the El Tigre and El Milagro mines when the river is not flooding. I shall be glad to do whatever I can to help you get these properties into production.

Thank you again for your courtesy.

Sincerely,

Bahngrell W. Brown - Field

bwb/rb
cc- J. S. Coupal

October 26, 1943

MEMORANDUM

EL TIGRE, EL MILAGRO
AND EL CENTENILLO
Dr. Hightower

TO: B. W. Brown
FROM: J. S. Coupal

I hope you can get this report to us as soon as possible.

JSC:LP

December 22, 1948

Mr. J. S. Coupal
State of Arizona
Capitol Building
Phoenix, Arizona

Dear Mr. Coupal:

Years ago you send me a copy of mine owner report. That at the time it was leased to Dr. Hightower of Phoenix, Arizona. Which now I have them all back, and I would like to know if you could help me in selling the property or lease it.

I Mrs. Reyes Balza, owner of the El tigre, El Milagro and Santa Martha Placer, located at Vulture Mining District.

Your letter was received by me June 24, 1940, which you have it on file. Please take consideration and answer at once.

Thanking you very much I remain.

Mrs Reyes Balza

1149 E. 59th. st.
L.A. 1, Calif.

Dec. 28, 1948.

✓ Mrs. Reyes Balsz,
1149 E. 59th. St.,
Los Angeles, Calif.


Dear Mrs. Balsz :

We have your letter of December 22nd., regarding
the El Tigre, El Milagro, and the Santa Martha placer properties.

In checking our files we find that the only
information we have concerning these is that furnished by another
party, namely, Dr. Hightower, who was at the time a leaser and ~~was~~
trying to dispose of them. In view of this we feel that it would
be best for you to furnish whatever information you might have
and are accordingly inclosing three blanks for your convenience.
If you have any old maps we would appreciate them for our files.

At the present not much interest is being shown in
low grade gold properties.

Very truly yours,


R. L. C. Manning,
Field Engineer.

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

Date Jan. 20, 1941

Mine Santa Martha Placer

2. Location Approximately 7 miles
Northwest of Morristown, Ariz.

Mining District & County Vulture

Former name Same

Owner Dr. N. D. Hightower

6. Address (Owner) 830 E. Jefferson
St., Phoenix, Arizona

Operator Do.

8. Address (Operator)
Dr. N. D. Hightower

President, Owning Co. Do.

9A. President, Operating Co.

Gen. Mgr. Do.

14. Principal Minerals Gold, Silver

Mine Supt. Do.

15. Production Rate

Mill Supt.

16. Mill: Type & Cap.

Men Employed

17. Power: Amt. & Type

Operations: Present Idle

Operations: Planned Development water supply for recover of gold by wet
methods

Number Claims, Title, etc. 8

Description: Topography & Geography Elevation 2,000 feet. Flat plains (desert)
traversed by large washes and arroyos. Surrounded by mountainous area
of granite and schist basement with igneous intrusions.
Traversed by many quartz veins.

Mine Workings: Amt. & Condition

Geology & Mineralization See previous answer

Core: Positive & Probable, Ore Dumps, Tailings

Dimensions and Value of Ore body

Line, Mill Equipment & Flow-Sheet

Road Conditions, Route Road to Vulture mine and Wickenburg pass thru this area.

Water Supply Subsurface water found in large wash has been used for small placer operations

Brief History Placering has been going on in this area for years according to reports. I started an operation here and tested this ground and found values widely distributed.

Special Problems, Reports Filed

Remarks

Property for sale: Price, terms and address to negotiate. Will lease on reasonable terms.

32. Signature.....(Signed) N. D. Hightower.....

See additional sheets if necessary.

18
DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
MINE OWNER'S REPORT

Date January 19, 1941

1. Mine El Milagro
2. Location Maricopa County
3. Mining District & County Vulture District
Maricopa
4. Former name Same
5. Owner Lease and Option(Exercised)
Dr. N. D. Hightower
6. Address (Owner) 830 E. Jefferson
St., Phoenix, Arizona
7. Operator N. D. Hightower
8. Address (Operator)
830 E. Jefferson St., Phoenix
9. President, Owning Co. N. D. Hightower
- 9A. President, Operating Co.
N. D. Hightower
10. Gen. Mgr. N. D. Hightower
14. Principal Minerals Copper, Gold,
Silver, Iron
11. Mine Supt. N. D. Hightower
15. Production Rate
12. Mill Supt.
16. Mill: Type & Cap.
13. Men Employed Idle
17. Power: Amt. & Type
18. Operations: Present Idle
19. Operations: Planned Construction of concentrating plant
Further development of ore body
20. Number Claims, Title, etc. Ten (10)
21. Description: Topography & Geography Elevation 2,000 feet -
22. Mine Workings: Amt. & Condition This property has one shaft reportedly
700 feet deep; one tunnel 300 feet deep; various other shafts and
tunnels of different depths exposing ore.

23. Geology & Mineralization Granite-Schist Basement. Igneous intrusions and limestone.

24. Ore: Positive & Probable, Ore Dumps, Tailings Surface mineralization pronounced.
Copper-gold-silver

24A. Dimensions and Value of Ore body Undetermined

25. Mine, Mill Equipment & Flow-Sheet

26. Road Conditions, Route Main Highway Phoenix to Wickenburg-as far as Morris-
town. West from Morristown about six (6) miles.

27. Water Supply Undeveloped. Water secured from adjoining claims .

28. Brief History This property was worked by Mexicans for gold and according
to history obtained from the family who held property the gold was re-
covered by use of an arrastre.

29. Special Problems, Reports Filed

30. Remarks

31. If property for sale: Price, terms and address to negotiate. Prefer leasing this property.

32. Signature



33. Use additional sheets if necessary.

ME-17

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Date January 18, 1941

1. Mine **El Tigre**
2. Mining District & County **Vulture Mining Dist.
Maricopa Co.**
3. Former name
4. Location **Vulture Dist. 48 $\frac{1}{2}$ miles from
Phoenix, 4 $\frac{1}{2}$ miles NW of Morristown, Ariz.
Station (Santa Fe R.R.)-Main highway
to Wickenburg.**
5. Owner **N. D. Hightower**
Lease with Option (Exercised)
6. Address (Owner) **830 E. Jefferson
Phoenix, Arizona**
7. Operator **N. D. Hightower**
8. Address (Operator) **"**
9. President **"**
10. Gen. Mgr.
11. Mine Supt. **"**
12. Mill Supt.
13. Principal Metals **Copper, Gold, Lead, Silver,
Vanadium, Manganese, micaceous hematite**
14. Men Employed
15. Production Rate **Property idle at present**
16. Mill: Type & Cap.
17. Power: Amt. & Type
18. Operations: **Present**

19. Operations Planned **To build plant for concentration of metals
To drill well for adequate water supply**

20. Number Claims, Title, etc. **Six claims.**

21. Description: Topography & Geography **Elevation of 2000 ft. Granite and schist
basement; highly intruded igneous formations.**

22. Mine Workings: Amt. & Condition **Main tunnels at least 300 ft.; drifts. Various
workings 40-50 ft. on veins at other location. The ore
outcrops on surface at many places, the mineralization
being strongest is association with rhyolite of which
there are large veins showing at surface.**

23. Geology & Mineralization In previous answer. In addition might add that by assay practically all formations carry gold in amounts ranging from 35¢ to \$2.40. Copper, gold iron are generally associated. The values in silver on these claims are minimum. Lead is found as galena and carbonate and with the lead gold and vanadium. There are also veins of manganiferous calcite outcropping on surface. The copper ores are carbonates-oxides and silicates. Rarely some copper glance is found.

24. Ore: Positive & Probable, Ore Dumps, Tailings Thru chemical and physical examinations of rocks from so many different formations I have found mineral so generally disseminated until I have classified the deposit as of that type. Micaceous hematite is very widely distributed.

24-A Vein Width, Length, Value, etc.

25. Mine, Mill Equipment & Flow Sheet

26. Road Conditions, Route The main highway to Wickenburg is just $4\frac{1}{2}$ miles from the property. The road from Morristown to the claims is good. Over the claims themselves the roads are extensive and in fair condition.

27. Water Supply Except for water found in a shaft adjoining the main tunnel of these claims the water supply is undeveloped. The Hassayampa river lies in a straight line about 2 miles south of the property and offers the main possibility for a large water supply other than by drilling on the claims themselves.

28. Brief History This property was worked by Mexicans for a period of many years. They have gophered these claims in many places exposing ore.

29. Special Problems, Reports Filed

Machinery for concentrating these ores is the great need of this property.

30. Remarks

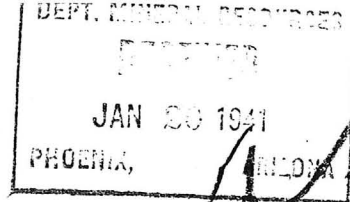
31. If property for sale: Price, terms and address to negotiate. I would like to lease this property. My terms will be reasonable. Address
Dr. N. D. Hightower, 830 E. Jefferson, Phoenix, Arizona

32. Signed N. D. Hightower

33. Use additional sheets if necessary.

ME-17

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



Date January 18, 1941

1. Mine ⁴El Tigre
3. Mining District & County Vulture Mining Dist.
Maricopa County
4. Former name
5. Owner ^JN. D. Hightower-
Lease with Option(Exercised)
7. Operator N. D. Hightower
9. President, Owning Co. N. D. Hightower
10. Gen. Mgr. N. D. Hightower
11. Mine Supt. N. D. Hightower
12. Mill Supt.
13. Men Employed
18. Operations: Present
2. Location Vulture District -
48 $\frac{1}{2}$ Miles from Phoenix-
4 $\frac{1}{2}$ Miles NW of Morristown, Ariz.
Station(Santa Fe R. R.)-Main
Highway Phoenix to Wickenburg
6. Address (Owner) 830 E. Jefferson
St., Phoenix, Arizona
8. Address (Operator) 830 E. Jefferson
St., Phoenix, Arizona
- 9A. President, Operating Co.
N. D. Hightower
14. Principal Minerals Copper-Gold-Lead-Silver
Vanadium-Manganese-Micaceous Hematite
15. Production Rate
Property idle at present
16. Mill: Type & Cap.
17. Power: Amt. & Type
19. Operations: Planned To build plant for concentration of metals.
To drill well for adequate water supply
20. Number Claims, Title, etc. Six Claims(6)
21. Description: Topography & Geography Elevation of 2,000 feet. Granite and schist
Basement;highly intruded igneous formations.
22. Mine Workings: Amt. & Condition Main tunnel at least 300 feet; drifts .
Various workings 40-50 feet on veins at other location. ~~the ore~~ out-
crops on surface at many places, the mineralization being strongest
in association with rhyolite of which there are large veins showing at
surface.

23. Geology & Mineralization See previous answer. In addition I might add that BY assay practically all formations carry gold in amounts ranging from 35¢ to 2.40. Copper, gold, iron are generally associated. The values in silver on these claims are minimal. Lead is found as galena and carbonate and with the lead gold and vanadium. There are also veins of manganiferous calcite outcropping on surface. The copper ores are carbonates-oxides and silicates.

24. Ore: Positive & Probable, Ore Dumps, Tailings Rarely some copper glance is found. Thru chemical and physical examinations of rocks from so many different formations I have found mineral so generally disseminated until I have classified the deposit as of that type. Micaceous hematite is very widely distributed.

24A. Dimensions and Value of Ore body

25. Mine, Mill Equipment & Flow-Sheet

The main

26. Road Conditions, Route Highway to Wickenburg is just 4½ miles from the property. The road from Morristown to the claims is good. Over the claims themselves the roads are extensive and in fair condition.

27. Water Supply Except for water found in a shaft adjoining the main tunnel of these claims, the water supply is undeveloped. The Hassayampa River lies in a straight line about 2 miles South of the property and offers the main possibility for a large water supply other than by drilling on the claims themselves.

28. Brief History This property was worked by Mexicans for a period of many years. They have gophered these claims in many places exposing ore.

29. Special Problems, Reports Filed Machinery for concentrating these ores is the great need of this property.

30. Remarks

31. If property for sale: Price, terms and address to negotiate. I would like to lease this property. My terms will be reasonable. Address Dr. N. D. Hightower, 830 E. Jefferson St., Phoenix, Arizona.

32. Signature.....

N. D. Hightower

33. Use additional sheets if necessary.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

OWNERS MINE REPORT

*El Tigre - copper, gold, silver, lead
El Milagro - silver, lead
Santa Martha Placer - gold, silver, lead*
(El Tigre -
Mine (El Milagro -
(Santa Martha Placer -
District Vulture

Date June 20, 1939

Location Northwest of Morristown

Former name Same names

Owner Mrs. Balaz-Reyes

Address 318 W. Lincoln St., Phoenix

Operator Dr. N. D. Hightower

Address 1109 So. 1st Ave., Phoenix

President do

Gen. Mgr.

Mine Supt.

Mill Supt.

Principal Metals Copper - Gold

(Bryant & Cobb - 2
Men Employed (Hightower - 2

Production Rate

Mill: Type & Cap.

Power: Amt. & Type

Operations: Present Sublease 1 claim: Otho Bryant & John Cobb of Phoenix
Placer now being tested

Operations Planned Mining, milling & concentration of ores

4300 E. Jefferson
Number Claims, Title, etc. Sixteen (16) claims

El Tigre #1,2,3,4 & 5 - Book 32 of Mines pp. 534-8
El Milagro #1,2,3,4,5,6,7,8,9 & 10 - Book 32 pp. 408-417
Santa Martha Placer

Description: Topog. & Geog. Andesitic & rhyolitic lavas lying on basement of schist & granite.
Altitude about 2000 feet. Complex faulting and abundant veins of quartz and quartz-
porphyry and limestone.

Mine Workings: Amt. & Condition Various shafts & tunnels of different depths in fairly good
condition

(over)

Geology & Mineralization Mineral is found disseminated through all formations. Every assay shows gold values. Copper is abundant and is seen outcropping in various parts of property. Lead, iron, calcium oxide, silver, manganese & Tungsten are present

Ore: Positive & Probable, Ore Dumps, Tailings Unlimited ore

Mine, Mill Equipment & Flow Sheet

Road Conditions, Route Morristown - $5\frac{1}{2}$ miles northwest of and across Hossayampa River - roads go

Water Supply On western end of property in Vulture wash is a shallow well. Plan to deepen same

Brief History Formerly worked by family (uncle) of present owner

Special Problems, Reports Filed Securing machinery for milling & concentration of ores

Remarks Surface ores are abundant and with machinery working property is no great risk.

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

Signed..... N. D. Hightower

Use additional sheets if necessary.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Date *June 20, 1939*
Location *Northwest of Morristown*

Mine { *E of Type*
District { *Milagro*
Santa Martha Pacer
Vulture
Former name *Same names*
Owner *Mrs. Balaz-Ryan*
Operator *Dr. J. B. Lightower*
President *do*

Address *318 W. Lincoln St. Phoenix*
Address *1109 So 1st Ave. Phoenix*
Gen. Mgr.
Mill Supt.
Men Employed *{ Bryant & Cobb - 2*
{ Lightower - 3
Mill: Type & Cap.

Mine Supt.
Principal Metals *Copper - Gold*
Production Rate

Power: Amt. & Type
Operations: Present *Sublease 1 claim: Otha Bryant & John Cobb of Phoenix*
Pacer now being tested -

Operations Planned *Mining, Milling & Concentration of ore*

Number Claims, Title, etc. *Sixteen (16) Claims.*
E of Type #1, 2, 3, 4 & 5 - Book 32 of Mines pp 534-8
E of Milagro #1, 2, 3, 4, 5, 6, 7, 8, 9 & 10. Bk. 32 " 408-417

Description: Topog. & Geog. *Santa Martha Pacer*
Pyroclastic & Plutonic lava lying on fragment
of schist & granite. Altitude about 2000 feet. Complex faulting
and abundant veins of quartz and quartz-porphyrus and
limestone.

Mine Workings: Amt. & Condition *Various shafts & tunnels of different*
depths in fairly good condition

Geology & Mineralization

Mineral is found disseminated thru all formation. Every assay shows gold values. Copper is abundant and is seen outcropping in various parts of property. head. Iron, Calcium Oxide, Silver, Manganese & Tungsten are Ore: Positive & Probable, Ore Dumps, Tailings present.

Unlimited Ore.

Mine, Mill Equipment & Flow Sheet

Road Conditions, Route

Morristown - 5 1/2 Miles Northwest of across Hossayampa River - Roads good.

Water Supply

On Western end of property in Vulture Wash is a shallow well. Plan to deepen same.

Brief History

Formerly worked by family (uncle) of present owner

Special Problems, Reports Filed

Securing machinery for milling & Concentration of ores.

Remarks

Surface ores are abundant and with machinery working property is no great risk.

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

Signed

Dr. 7/10

J. D. Hightower

Use additional sheets if necessary.

1109 S. 1st Ave.
Phoenix

38532

See owner
for kind

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

Date: Jan. 20, 1941.

1. Mine: Santa Martha Placer
2. Location: Approximately 7 miles northwest of Morrystown, Arizona.
3. Mining District & County: Vulture Mining District, Maricopa County
4. Former Name:
5. Owner: Dr. N. D. Hightower
6. Address (Owner): 830 E. Jefferson Street, Phoenix, Arizona.
7. Operator:
8. Address (Operator):
9. President, Owning Co:
- 9A. President, Operating Co:
10. Gen. Mgr:
14. Principal Minerals: Gold, Silver.
11. Mine Supt:
15. Production Rate:
12. Mill Supt:
16. Mill, Type & Cap:
13. Men Employed:
17. Power, Amt. & Type:
18. Operations - Present: Idle.
19. Operations, Planned: Development water supply for recovery of gold by wet methods.
20. Number Claims, Title, etc: 8 claims.
21. Description - Topography & Geography: Elevation 2,000 feet. Flat plains (desert) traversed by large washes and arroyos. Surrounded by mountainous area of granite and schist basement with igneous intrusions. Traversed by many quartz veins.
22. Mine Workings - Amt. & Condition:

23. Geology & Mineralization:

24. Ore - Positive & Probable, Ore Dumps, Tailings:

24A. Dimensions and Value of Ore body:

25. Mine, Mill Equipment & Flow Sheet:

26. Road Conditions, Route: Road to Vulture mine and Wickenburg pass through this area.

27. Water Supply: Subsurface water found in large wash has been used for small placer operations.

28. Brief History: Placering has been going on in this area for years according to reports. I started an operation here and tested this ground and found values widely distributed.

29. Special Problems, Reports Filed:

30. Remarks:

31. If property for sale - Price, terms and address to negotiate: Will lease on reasonable terms.

32. Signature: (Signed) N. D. HIGHTOWER

8-12

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

Date Jan. 20, 1941

1. Mine Santa Martha Placer
2. Location Approximately 7 miles Northwest of Morristown, Ariz.
3. Mining District & County Vulture
4. Former name Same
5. Owner Dr. N. D. Hightower
6. Address (Owner) 830 E. Jefferson St., Phoenix, Arizona
7. Operator Do.
8. Address (Operator) Dr. N. D. Hightower
9. President, Owning Co. Do.
- 9A. President, Operating Co.
10. Gen. Mgr. Do.
14. Principal Minerals Gold-Silver
11. Mine Supt. Do.
15. Production Rate
12. Mill Supt.
16. Mill: Type & Cap.
13. Men Employed
17. Power: Amt. & Type
18. Operations: Present Idle
19. Operations: Planned Development water supply for recover of gold by wet methods
20. Number Claims, Title, etc. 8
21. Description: Topography & Geography Elevation 2,000 feet. Flat plains(desert) traversed by large washes and arroyos. Surrounded by mountainous area (~~granite~~) of granite and schist basement with igneous intrusions. Traversed by many quartz veins.
22. Mine Workings: Amt. & Condition

23. Geology & Mineralization See previous answer

24. Ore: Positive & Probable, Ore Dumps, Tailings

24A. Dimensions and Value of Ore body

25. Mine, Mill Equipment & Flow-Sheet

26. Road Conditions, Route Road to Vulture mine and Wickenburg pass thru this area.

27. Water Supply Subsurface water found in large wash has been used for
smalle placer operations

28. Brief History Placering has been going on in this area for years according
to reports. I started an operation here and tested this ground and
found values widely distributed.

29. Special Problems, Reports Filed

30. Remarks

31. If property for sale: Price, terms and address to negotiate. Will lease on reasonable terms.

32. Signature.....

A. J. Hightower

33. Use additional sheets if necessary.

ME-17

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Date January 18, 1941

Mine - El Tigre

Mining District & County - Vulture Dist.
Maricopa Co.

Former Name

Owner - N. D. Hightower
Lease with Option (Exercised)
Operator - N. D. Hightower

Location - Vulture Dist. $48\frac{1}{2}$ miles
from Phoenix, $4\frac{1}{2}$ miles NW of
Morristown, Ariz. Station (Santa Fe
Railroad) Main highway to Wickenburg

Address - 830 E. Jefferson
Phoenix, Arizona

Address - "

President "

Gen. Mgr.

Mine Supt. "

Mill Supt.

Principal Metals - Copper, Gold, Lead, Silver,
Vanadium, Manganese, Micaceous hematite

Men Employed

Production Rate - Property idle at present

Mill: Type & Cap.

Power: Amt. & Type

Operations: Present

Operations Planned - To build plant for concentration of metals
To drill well for adequate water supply

Number Claims, Title, etc. - 6 claims

Description: Topography & Geography - Elevation of 2000 ft. Granite and schist
basement; highly intruded igneous formation.

Mine Workings: Amt. & Condition - Main tunnel at least 300 ft.; drifts. Various
workings 40-50 ft. on veins at other location. There
are outcrops on surface at many places, the mineral-
ization being strongest is associated with rhyolite
of which there are large veins showing at surface.

Geology & Mineralization - See previous answer. In addition I might add that by assay practically all formations carry gold in amounts ranging from 35¢ to \$2.40. Copper, gold iron are generally associated. The values in silver on these claims are minimum. Lead is found as galena and carbonate and with the lead gold and vanadium. There are also veins of manganiferous calcate outcropping on surface. The copper ores are carbonates-oxides and silicates. Rarely some copper glance is found.

Ore: Positive & Probable, Ore Dumps, Tailings - Thru chemical and physical examinations of rocks from so many different formations I have found mineral so generally disseminated until I have classified the deposit as of that type. Micaceous hematite is very widely distributed.

Vein Width, Length, Value, etc.

Mine, Mill Equipment & Flow Sheet

Road Conditions, Route - The main highway to Wickenburg is just $4\frac{1}{2}$ miles from the property. The road from Morristown to the claims is good. Over the claims themselves the roads are extensive and in fair condition.

Water Supply - Except for water found in a shaft adjoining the main tunnel of these claims the water supply is undeveloped. The Hassayampa river lies in a straight line about 2 miles south of the property and offers the main possibility for a large water supply other than by drilling on the claims themselves.

Brief History - This property was worked by Mexicans for a period of many years. They have gophered these claims in many places exposing ore.

Special Problems, Reports Filed - Machinery for concentrating these ores is the great need of this property.

Remarks

If property for sale: Price, terms and address to negotiate - I would like to lease this property. My terms will be reasonable. Address:
Dr. N. D. Hightower, 830 E. Jefferson, Phoenix, Arizona

SIGNED - N. D. Hightower