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Arizona Department of Mines and Mineral Resources Mining Collection

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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: NORTH CROSS EXTENSION

ALTERNATE NAMES:

MORNING STAR PROPERTY
ORACLE STAR CLAIMS

PINAL COUNTY MILS NUMBER: 600

LOCATION: TOWNSHIP 10 S RANGE 15 E SECTION 36 QUARTER SW
LATITUDE: N 32DEG 35MIN 59SEC LONGITUDE: W 110DEG 46MIN 22SEC
TOPO MAP NAME: ORACLE - 15 MIN

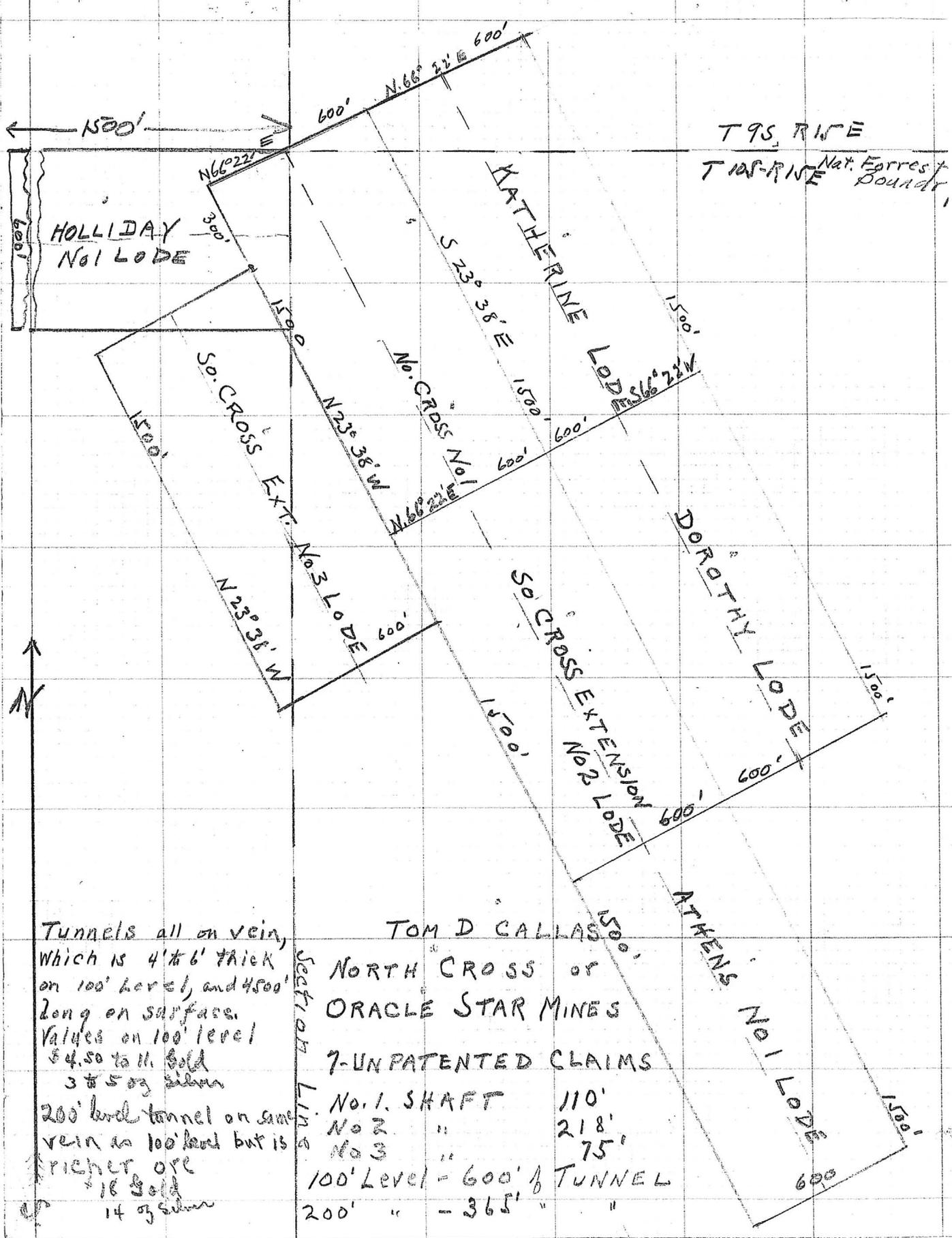
CURRENT STATUS: DEVEL DEPOSIT

COMMODITY:

GOLD
SILVER
LEAD
COPPER SULFIDE
COPPER OXIDE
MOLYBDENUM
VANADIUM

BIBLIOGRAPHY:

ADMMR NORTH CROSS EXTENSION FILE
USAEC PRELIM. RECONN. REPORT, 172-488, 1953,
P. 40



Tunnels all on vein,
 which is 4' x 6' thick
 on 100' level, and 4500'
 long on surface.
 Values on 100' level
 54.50 to 11. Gold
 3 to 5 oz silver
 200' level tunnel on same
 vein as 100' level but is
 richer ore
 18 Gold
 14 oz silver

TOM D CALLAS
 NORTH CROSS or
 ORACLE STAR MINES
 7-UNPATENTED CLAIMS
 No. 1. SHAFT 110'
 No 2 " 218'
 No 3 " 75'
 100' Level - 600' TUNNEL
 200' " - 365' "

T 95 RISE
 T 105 RISE Nat. Forest Boundary

NAME OF MINE: NORTH CROSS

COUNTY: PINAL

DISTRICT:

METALS: PB, AU

5

OPERATOR AND ADDRESS:

MINE STATUS

DATE:
5/1/44

Tom Callas, Oracle, Ariz.

DATE:

5/1/44

Developing

9/44

Idle

OWNERS

MAR-2

CALLAS, Tom
Box 89,
Oracle, Arizona.

MINE

NORTH CROSS EXTENSION

Old but my heart
Pinal Co.

See- Morning Star Mine 5-31-52

gold, silver, lead, indigo, + vanadium

NORTH CROSS EXTENSION

Au, Ag, Pb, Mo

Pinal

11 - 4

T 9 S, R 15 E

Tom Callas, Oracle, Box 89

'39

'46

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

July 8, 1958

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

North Cross Extension (Pinal County) Gold, silver, lead, copper
(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

FRANK P. KNIGHT,
Director.

Enc: Mine Owner's Report

see other side

Dear Sir
in regards of the Office you
refer to as North Cross & T, I wish
to inform you that I have had
nothing to do with said property
for a long time it has been
sold and it isn't been fixed
I have no more interest in any
business any more. I am retired.

Yours sincerely
Tom Gallo

RECEIVED
JUL 10 1958
DEPT. MINERAL RESOURCES
PHOENIX, ARIZONA

76

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

DEPT. MINERAL RESOURCES
RECEIVED
OCT 3 1946
PHOENIX, ARIZONA

Date Oct 1 1946

1. Mine: NORTH CROSS EXTENSION

2. Location: Sec. 36 Twp. Oracle Hill Nearest Town Oracle

Distance 1 1/2 Mile Direction S. West Road Condition good

3. Mining District & County: Old HAT Mining District (Pinal)

4. Former Name of Mine: North Cross mine

5. Owner: Tom D. Callas

Address: Oracle Arizona 130789

6. Operator: Tom D. Callas

Address: Oracle Arizona

7. Principal Minerals: Gold - Silver Lead - Copper

8. Number of Claims: 21 Lode body ore Placer no

Patented 770 Unpatented yes

9. Type of Surrounding Terrain: Hilly territory and flat
1 shaft 225 feet down with 50 ft
drift on the vein and other two
shafts connect together all drifts
on the vein

10. Geology & Mineralization:
55 degrees down, 7.14 feet wide
Quartz rocks

11. Dimension & Value of Ore Body: Quantity of the vein
from \$12.00 to \$35.00 per ton

12. Ore "Blocked Out" or "In Sight": Tonnage blocked out
from 100 to 500 tons of ore

Ore Probable: Silver-lead-Copper and
gold. and molybdenum

13. Mine Workings—Amount and Condition: good

No.	Feet	Condition
Shafts: <u>3</u>	<u>220-</u>	<u>full of water</u>
Raises: <u>none</u>		
Tunnels: <u>2</u>	<u>500</u>	<u>at 100 level on 200 ft level</u>
Crosscuts: <u>none</u>		<u>365 ft. tunnel</u>
Stopes: <u>none</u>		

14. Water Supply: 7000 gals. per day - from
the shaft

15. Brief History: Mine shut down couldn't
get material for Gold. its not
an old property. five years
developing.

16. Signature: Tan. D. Calles

17. If Property for Sale, List Approximate Price and Terms: property for
lease. \$5000 down. \$75000 to pay
out.

MISCELLANEOUS

Theres been taken over 50 samples
and assays. some runs \$12.00 some
\$17.00 some \$32.50 and some \$38.00
runs high in lead and Silver and
2 per cent Copper. and high grade
Molybdenum.

Map

Scale
Date

Section

Box
Date

Map

Scale
Date

Section

Scale
Date

December 17, 1941

Mr. P. K. Dayton
Oracle, Arizona

Dear P. K.:

My attention was called to the fact that we have an Engineer's Report and a Mine Owner's Report on the North Cross Extension owned by Tom Callas.

I have placed the sketch which you submitted on this property and you can disregard my letter asking for a Mine Owner's Report.

Very truly yours,

J. S. Coupal

JSC:LP

December 15, 1941

Mr. P. K. Dayton
Oracle, Arizona

Dear P. K.:

Many thanks for the sketch on the North Star Mine which you sent in your letter of December 6. In addition to this sketch I hope you can furnish us with a complete Mine Owner's Report.

I have not heard from Mr. Brown regarding an early visit but feel sure he will contact you as soon as he gets to Oracle.

With best regards, I am

Yours very truly,

J. S. Coupal

JSC:LP

Dec 6 - 41
Oracle Ariz

Dear Sam,

Here is the map & data
you asked for on Tom Celler
North Star Mine.

Both Dix & Tom are
working on part time jobs,
so suggest you send Mr
Brown to see me, and
then I will locate both of
them for him, wherever
they may be working.

Cheers - & Merry
Christmas to you.

P.K. Dayton
Thanks for report on ore.

DEPARTMENT OF MINERAL RESOURCES.

News Items

Date November 17, 1939.

Mine North Cross Extension

Location $1\frac{1}{2}$ Miles SW of Oracle

Owner Tom Callas

Address Oracle, Arizona.

Under option to

Operating Co. W.S. Bacon

Address Oracle, Ariz. and Macomb, Ill.

Pres.

Genl. Mgr.

Mine Supt.

Mill Supt.

Principal Metals Gold, silver, lead, molybdenum & vanadium.

Men Employed 3

Production Rate Development work only.

Mill, Type & Capacity

Power, Amt. & Type 3 h.p. single drum hoist

New two-stage portable compressor.

Signed

Walter W. ...

(Over)

Present Operations

Timbering new shaft and continuing the
100 ft. level drift along the vein.

New Work Planned Will sink new shaft another
100 feet in depth and continue lateral
development on both levels. Will build
selective flotation mill if development
proves it warranted.

Misc. Notes The new shaft has just been holed
to the surface from the 100 level, the
collar set, headframe and hoist installed,
and ground made ready for a building to
house all equipment. The drift on the 100
level has been extended 150 feet along the
vein, and to date the values and width of
vein continue to look very promising.

This work represents the type of develop-
ment which is so badly needed in the state.

DEPARTMENT OF MINERAL RESOURCES

News Items

Date March 12, 1940.

Mine North Cross Extension

Location 1 1/2 Mi. SW of Oracle

Owner Tom Callas

Address Oracle, Arizona.

Under lease and option to

Operating Co. W.S. Bacon and associates

Address Oracle and Macomb, Ill.

Pres. _____

Genl. Mgr. _____

Mine Supt. _____

Mill Supt. _____

Principal Metals Gold, silver, lead, molybdenum, vanadium.

Men Employed 4

Production Rate Developing (Ore stockpiled)

Mill, Type & Capacity _____

Power, Amt. & Type Same as previous reports.

Signed _____

(Over)

Present Operations - New shaft now down 165 feet,
and drift on 100 foot level has been extended
to a total length of approximately 300 feet.

A raise to the surface is being driven from
the face on the 100 foot level. This raise

New Work Planned will provide an additional
manway and will improve ventilation for
continuing development. Both the shaft and
the drift are proving the continuity of the
vein vertically and laterally, and values

Misc. Notes to date are consistently satisfact-
ory. It is planned to continue both headings
for the purpose of blocking out sufficient
ore to justify the installation of a mill.

An increasing flow of water in the shaft gives
promise of providing the necessary supply
for eventual milling use.

Tom Callas is in charge of underground
operations. Mr. Bacon is directing all
work.

DEPARTMENT OF MINERAL RESOURCES

News Items

Date Sept. 12, 1939.

Mine North Cross Extension

Location 1 1/2 Miles S.W. of Oracle

Owner Tom Callas

Address Oracle, Arizona. Box 89

Under option to

Operating Co. W.S. Bacon

Address Oracle, Arizona and Macomb, Ill.

Pres.

Genl. Mgr.

Mine Supt.

Mill Supt. and vanadium.

Principal Metals Gold, silver, lead, molybdenum

Men Employed 3

Production Rate Developing only.

Mill, Type & Capacity

Power, Amt. & Type 3 H.P. single drum hoist
and small ventilating fan.

Signed

Newton W. ...

(Over)

Present Operations

Drifting on vein at 100 ft. level.

Ore from development work is being stockpiled for later treatment.

New Work Planned Expect to install compressor and sink vertical working shaft south of present shaft. From this shaft, development will be extended laterally and vertically, and cross cuts driven to intersect other known veins.

Misc. Notes

Drift at present has been driven 55 feet along vein, exposing good ore of a width of from 6 to 9 feet. Vein is very strong, with values showing as free gold, galena, wulfenite, vanadinite and a little molybdenite. Gangue is predominantly spongy quartz. Shaft is making approximately 1000 gal. of water per day at 100 ft. level.

Would call this an extremely fine prospect.

DEPARTMENT OF MINERAL RESOURCES

News Items

Date 6/12/39

Mine North Cross

Location 1 1/2 Mi. Southwest of Oracle

Owner Tom Callas

Address Box 89 Oracle

Under bond & lease to

Operating Co. W.S. Bacon

Address Oracle

Pres.

Genl. Mgr.

Mine Supt.

Mill Supt.

Principal Metals Gold, silver, molybdenum

Men Employed New equipment being installed,

Production Rate and property will be exten-

Mill, Type & Capacity sively developed.

Callas has been working the property him-
Power, Amt. & Type self heretofore.

Signed

(Over)

News Items

Date 6/22/39

Mine North Cross

Location 1 1/2 Mi. Southwest of Oracle

New Work Planned

Owner Tom Galias

Address Box 89 Oracle

Under bond & lease to

Operating Co. W.S. Bacon

Address Oracle

Misc. Notes

Pros.

Genl. Mgr.

Mine Supt.

Mill Supt.

Principal Metals Gold, silver, copper

Men Employed New equipment being installed

Production Rate and prospects will be exten-

Mill Type & Capacity already developed

Galias has been working the property him-

Power, Amt. & Type not herebefore.

Signed

(Over)

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA

FIELD ENGINEERS REPORT

Date Sept. 23, 1939.

Mine North Cross Extension

Engineer Newton Wolcott

District Old Hat

(Pinal Co)

Location 1 1/2 Miles Southwest of Oracle

Former name

Owner Tom Callas

Address Oracle, Arizona.

Operator W.S. Bacon

Address Oracle, Arizona.

President

Gen. Mgr.

Mine Supt.

Mill Supt.

Principal Metals Gold, silver, lead, molybdenum, and vanadium.

Men Employed 3

Production Rate

Mill: Type & Cap.

Power: Amt. & Type

1 1/2 h.p. single drum hoist and small blower.

Operations: Present

Drifting along vein at bottom of 100 ft. shaft.

Operations Planned

Plan to install compressor and sink vertical working shaft, then develop vein to greater depth. If values continue as shown in work to date, a mill will be built on the property.

Number Claims, Title, etc.

Five unpatented claims. (Patent survey has been made, and application will be filed for patent.)

Description: Topog. & Geog.

Rolling, wooded hills at the north end of the Santa Catalina Mts. Property easily accessible from the town of Oracle.

Mine Workings: Amt. & Condition

One 100 foot inclined shaft with 60 feet of drift at bottom. Various shallow cuts and assessment holes. All workings are accessible.

Geology & Mineralization

Several very strong quartz veins show on the surface, cutting through porphyry and granite. The vein upon which work is being done at present strikes NW-SE and dips from approximately 30 deg. NE at the surface to 65 deg. NE at the 100 foot level. This vein varies in width from 5 to 9 feet, with a very regular and well defined foot-wall. Fault gouge carrying hematite is present on both walls. The ore minerals consist of galena, wulfenite, vanadinite, molybdenite and free gold carried in honeycombed quartz. The silver values probably are contained in the galena.

Ore: Positive & Probable, Ore Dumps, Tailings

Development insufficient as yet to permit estimate of tonnage. Owner states that all material removed so far from the mine can be shipped at a profit. This seems quite possible, judging from the appearance of the dump.

Mine, Mill Equipment & Flow Sheet

No equipment other than hoist and blower at present.

Road Conditions, Route

Good road to mine, a distance of only 1 1/2 miles from State Hwy. 77. Inquire at Oracle for route to mine.

Water Supply

Shaft at present making approximately 1000 gals. of water per day, and deeper development will undoubtedly increase this flow greatly.

Brief History

This property was located a great many years ago, but no work other than shallow assessment holes was ever done upon it until the present owner acquired the ground.

Special Problems, Reports Filed

Remarks

Property is now under option to W.S. Bacon of Oracle. This contract contains certain requirements as to development, and runs until June 3, 1940. Mr. Callas is in charge of work for Mr. Bacon.

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

Property would be for sale only in the event that Mr. Bacon does not exercise his option or fails to fulfill his part of the contract.

Signed Newton Wolcott

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Date 7/10/39

Mine North Cross Extension

District Old Hat (Pinal Co)

Location 1 1/2 miles S.W. of Oracle

Former name

Owner Tom Callas

Address Oracle, Ariz

Operator W. S. Bacon

Address " "

President

Gen. Mgr.

Mine Supt.

Mill Supt.

Principal Metals Gold, silver, lead, molybdenum
and vanadium

Men Employed 3

Production Rate

Mill: Type & Cap.

Power: Amt. & Type

Operations: Present Sinking shaft on vein

Operations Planned Will drift both ways on vein at 100' level and continue to sink shaft

Number Claims, Title, etc. 5 unpatented claims - on Forest

Description: Topog. & Geog. Rolling hills with some oak timber at north end of
Santa Catalina Mts.

Mine Workings: Amt. & Condition 100 ft. shaft and various open cuts and assment holes.
workings are accessible

(over)

Geology & Mineralization Several strong quartz veins cutting through porphyry and granite. Strike N.W.-S.E. and dip N.E. Ore minerals and free gold, galena, vanadinite, wulfenite, silver carried in the galena

Ore: Positive & Probable, Ore Dumps, Tailings Vein now worked on varies in width from 6' to 9'

Mine, Mill Equipment & Flow Sheet 3 HP hoist

Road Conditions, Route Good road leading south from State Highway 77

Water Supply Sufficient for all purposes

Brief History Property located in 1881 but no work done.

Special Problems, Reports Filed

Remarks Under option to W.S.Bacon for one year from 6/3/39 to 6/3/40. Terms call for certain amount of development work.

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

Signed.....Tom Callas

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Date

7/10/39

Mine North Cross Extension

District Old Hat

Location 1/2 Miles S.W. of Oracle

Former name

Owner Tom Callas

Address

Oracle, Ariz.

Operator W.S. Bacon

Address

President

Gen. Mgr.

Mine Supt.

Mill Supt.

Principal Metals Gold, silver, lead, molybdenum

Men Employed 3

Production Rate + vanadium

Mill: Type & Cap.

Power: Amt. & Type

Operations: Present

Sinking shaft on vein

Operations Planned

Will drift both ways on vein at 100' level and continue to sink shaft.

Number Claims, Title, etc.

5 Unpatented claims - on Forest

Description: Topog. & Geog.

Rolling hills with some oak timber at north end of Santa Catalina Mts.

Mine Workings: Amt. & Condition

100 ft. shaft and various open cuts and assessment holes. Workings are accessible

(over)

Geology & Mineralization

Several strong quartz veins cutting through porphyry and granite. Strike N.W.-S.E. and dip N.E. Ore minerals are free gold, galena, vanadinite, wolfeberite, silver carried in the galena.

Ore: Positive & Probable, Ore Dumps, Tailings

Vein now worked on varies in width from 6' to 9' ~~and from 1' to 2'~~

Mine, Mill Equipment & Flow Sheet

3 H.P. Hoist

Road Conditions, Route

good road leading south from State Hwy 77.

Water Supply

sufficient for all purposes.

Brief History

Property located in 1881 but no work done.

Special Problems, Reports Filed

Remarks

Under option to W.S. Bacon for one year from 6/3/39 to 6/3/40. Terms call for certain amount of development work.

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

yes - see

Signed

Tom Callias

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

Date 7/10/39

1. Mine **North Cross Extension**
2. Location **1 1/2 miles SW of Oracle**
3. Mining District & County **Old Hat--Pinal Co.**
4. Former name
5. Owner **Tom Callas**
6. Address (Owner) **Oracle, Ariz.**
7. Operator **W. S. Bacon**
8. Address (Operator) **" "**
9. President, Owning Co.
- 9A. President, Operating Co.
10. Gen. Mgr.
14. Principal Minerals **Gold, silver, lead molybdenum and vanadium**
11. Mine Supt.
15. Production Rate
12. Mill Supt.
16. Mill: Type & Cap.
13. Men Employed **three**
17. Power: Amt. & Type
18. Operations: Present **Sinking shaft on vein.**
19. Operations: Planned **Will drift both ways on vein at 100' level and continue to sink shaft.**
20. Number Claims, Title, etc. **5 unpatented claims--on Forest**
21. Description: Topography & Geography **Rolling hills with some oak timber at north end of Santa Catalina Mts.**
22. Mine Workings: Amt. & Condition **100 ft. shaft and various open cuts and assessment holes. workings are accessible.**

.....Tom Callas (Signed)

23. Geology & Mineralization Several strong quartz veins cutting through porphyry and granite. Strike N.W.-S.E. and dip N.E. Oreminals are free gold, galena, vanadimti, wulfex silver carried in the galena.

24. Ore: Positive & Probable, Ore Dumps, Tailings Vein now worked on varies in width from 6' to 9' average of assays--\$27. per ton.

24A. Dimensions and Value of Ore body

6. Address (Owner) Tom Callas
8. Address (Operator) W. S. Bacon

25. Mine, Mill Equipment & Flow-Sheet 3 H.P. hoist.

14. Principal Minerals Gold, silver, lead
15. Production Rate

26. Road Conditions, Route

Good road leading south from State Highway 77.

27. Water Supply

Sufficient for all purposes.

28. Brief History

Property located in 1881 but no work done.

29. Special Problems, Reports Filed

30. Remarks

Under option to W.S. Bacon for one year from 6/3/39 to 6/3/40. Terms call for certain amount of development.

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

Yes - see Owner

32. Signature.....(Signed).....Tom Callas.....

33. Use additional sheets if necessary.