



CONTACT INFORMATION

Mining Records Curator
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1520 West Adams St.
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<http://www.azgs.az.gov>
inquiries@azgs.az.gov

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Arizona Department of Mines and Mineral Resources Mining Collection

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PRINTED: 09-10-2012

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: TUNGSTONA

ALTERNATE NAMES:

WARRELL CLAIMS
COMMOD CLAIMS

YAVAPAI COUNTY MILS NUMBER: 144

LOCATION: TOWNSHIP 15 N RANGE 9 W SECTION 24 QUARTER N2
LATITUDE: N 34DEG 37MIN 55SEC LONGITUDE: W 113DEG 09MIN 35SEC
TOPO MAP NAME: BAGDAD - 15 MIN

CURRENT STATUS: DEVEL DEPOSIT

COMMODITY:

TUNGSTEN
BERYLLIUM
LEAD
BISMUTH
VANADIUM
MOLYBDENUM

BIBLIOGRAPHY:

ANDERSON, C.A. ETAL. GEOL. & ORE DEPST BAGDAD
AREA USGS PP 278 1955 P 97
DALE, V.B. TUNGSTEN DEPTS GILA, YAVAPAI &
MOHAVE CTYS USBM IC 8078 1961 P 53-57
CLAIMS ALSO IN SEC. 13, 14 & 23
ADMMR TUNGSTONA FILE

September 8, 1942

Mr. Sherman Hazeltine
The Bank of Arizona
Prescott, Arizona

Dear Mr. Hazeltine:

I wish to acknowledge the receipt of the Mine Owner's Report which has been submitted by Mr. Warrell. With the very limited information supplied it will be extremely difficult to interest anyone in the property sufficiently to justify them in going out to make a further investigation.

I suggest that you arrange to have Mr. Warrell look up Mr. A. C. Nebeker, the district engineer, located at Prescott, and have Mr. Nebeker get additional information by questioning Mr. Warrell in person. In this manner I believe we can get sufficient information regarding the property so that it will be possible for us to at least call it to the attention of any parties who may be interested.

I am sending a copy of this letter to Mr. Nebeker.

Yours very truly,

J. S. Coupal, Director

JSC:LP

CC: A. C. Nebeker

ARIZONA SMALL MINE OPERATORS ASSOCIATION

W. J. GRAHAM, STATE PRESIDENT
CHARLES F. WILLIS, STATE SECRETARY

OFFICE OF STATE SECRETARY
528 TITLE AND TRUST BLDG.
PHOENIX, ARIZONA

COUNCILS

September 5, 1942

AGUILA
AJO
ALAMO
ARIVACA
BENSON
BISBEE
BOUSE
CASA GRANDE
CAVE CREEK
CHERRY
CHLORIDE
CLEATOR
CLIFTON-MORENO
CONGRESS
CROWN KING
DOUGLAS
DUNCAN
ELLSWORTH
FLORENCE
GLOBE
HUACHUCA
KINGMAN
KIRKLAND
KLONDYKE
MARICOPA
MAYER
MESA
MIAMI
MOHAVE
MORRISTOWN
NOGALES
NO. COCHISE
OATMAN
ORACLE
PARKER
PATAGONIA
PAYSON
PEARCE
PHOENIX
PRESCOTT
QUARTZSITE
QUIJOTOA
RAY
SAFFORD
SALOME
SELLS
SO. COCHISE
SUNFLOWER
SUPERIOR
TOMBSTONE
TUCSON
TURQUOISE
VERDE
WICKENBURG
WILLCOX
WINKELMAN
YARNELL
YAVAPAI
YUMA

Mr. Sherman Hazeltine, Cashier,
The Bank of Arizona,
Prescott, Arizona.

Dear Sherman:

I have your letter of September 4 relative
to the William H. Warrell tungsten claims in the Eureka
Mining District.

I am passing this along to the Department of
Mineral Resources for their action.

There is considerable interest in tungsten on
the part of the government and offhand it would strike
me as a property which should apply for a government
loan. There have been quite a number of government loans
granted for tungsten development.

I note that the report sent in does not give
the post office address of W. H. Warrell. Without that
we might have considerable difficulty in communicating with
him. We would appreciate that advice.

With kindest personal regards, I am

Yours very truly,

Charles F. Willis

CHARLES F. WILLIS
State Secretary

CFW:MH

*Dear Charlie -
Thanks - Warrell's
address is 90 Boulder Mining Co.,
Hillside, Ariz. Regards,
Murray*

Wepst

September 5, 1942

Mr. Sherman Hazeltine, Cashier,
The Bank of Arizona,
Prescott, Arizona.

Dear Sherman:

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Yours very truly,

CHARLES F. WILLIS
State Secretary

CFW:MH

ORGANIZED 1877

THE BANK OF ARIZONA

THE OLDEST BANK IN ARIZONA

PRESCOTT, ARIZONA

SHERMAN HAZELTINE, CASHIER

September 4, 1942

Mr. Charles F. Willis
Arizona Small Mine Operators Association
528 Title & Trust Building
Phoenix, Arizona

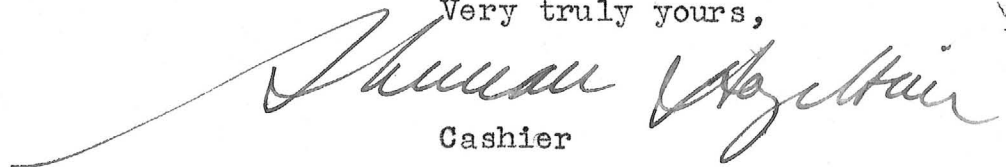
Dear Charlie:

Thank you for yours of August 13 relative to the William H. Warrell tungsten claims in the Eureka Mining District.

I have just received from him the completed questionnaire which I enclose herewith. It will be appreciated if you will get this report to whatever department might be interested in tungsten.

When, as and if you are up in this territory, please do not hesitate to come in and say hello. Kindest regards.

Very truly yours,

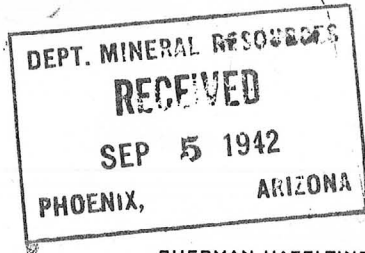

Cashier

ORGANIZED 1877

THE BANK OF ARIZONA

THE OLDEST BANK IN ARIZONA

PRESCOTT, ARIZONA



SHERMAN HAZELTINE, CASHIER

September 4, 1942

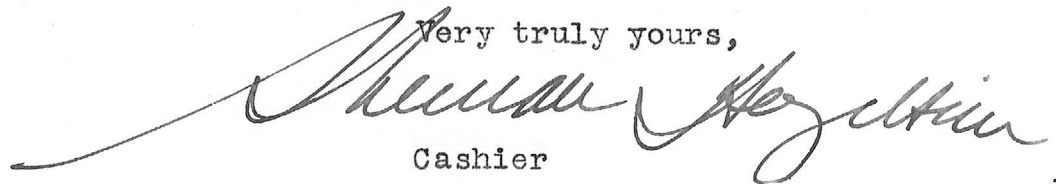
Mr. J. S. Coupal, Director
Department of Mineral Resources
413 Home Builders Building
Phoenix, Arizona

Dear Mr. Coupal:

Thank you for your letter of August 24
relative to the William H. Warrell
tungsten claims in the Eureka Mining
District.

I enclose herewith the questionnaire
which you sent which has been completed
by Mr. Warrell. If there is anything
which you can do to bring this property
to the attention of interested parties,
your assistance will be appreciated.

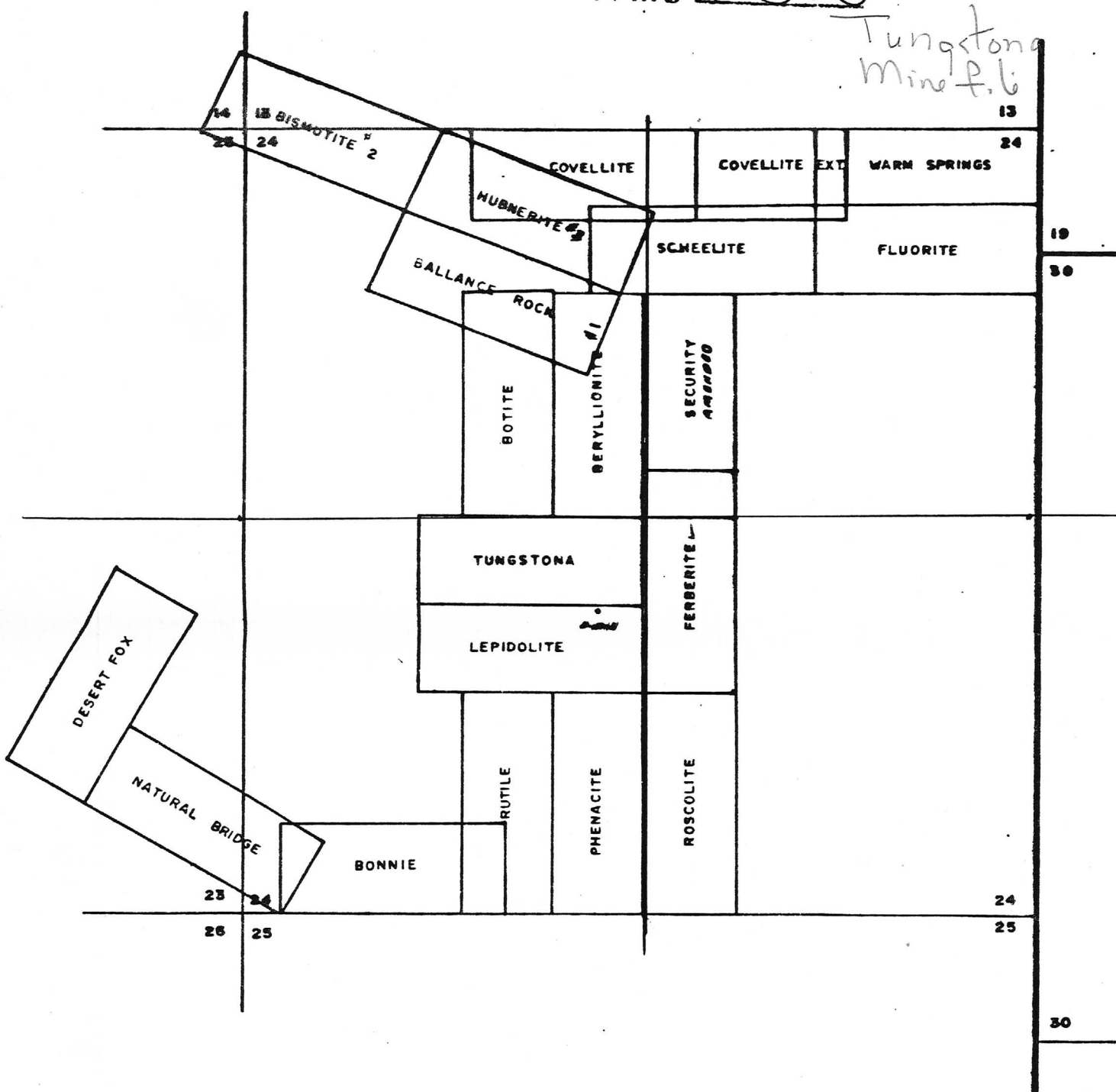
Very truly yours,



Cashier

A.L.M. 19383

Tungstona
Mine f.l.



T 15N, R 9W
C&SRBA

PLAT SHOWING TUNGSTONA GROUP & D.D.H. T-1-76

SCALE 1"=1000'

RECEIVED
B. L. M. AZ STATE OFFICE

JAN 24 1978

10:00 A.M.
PHOENIX, ARIZONA

12-15-77

CYPRUS

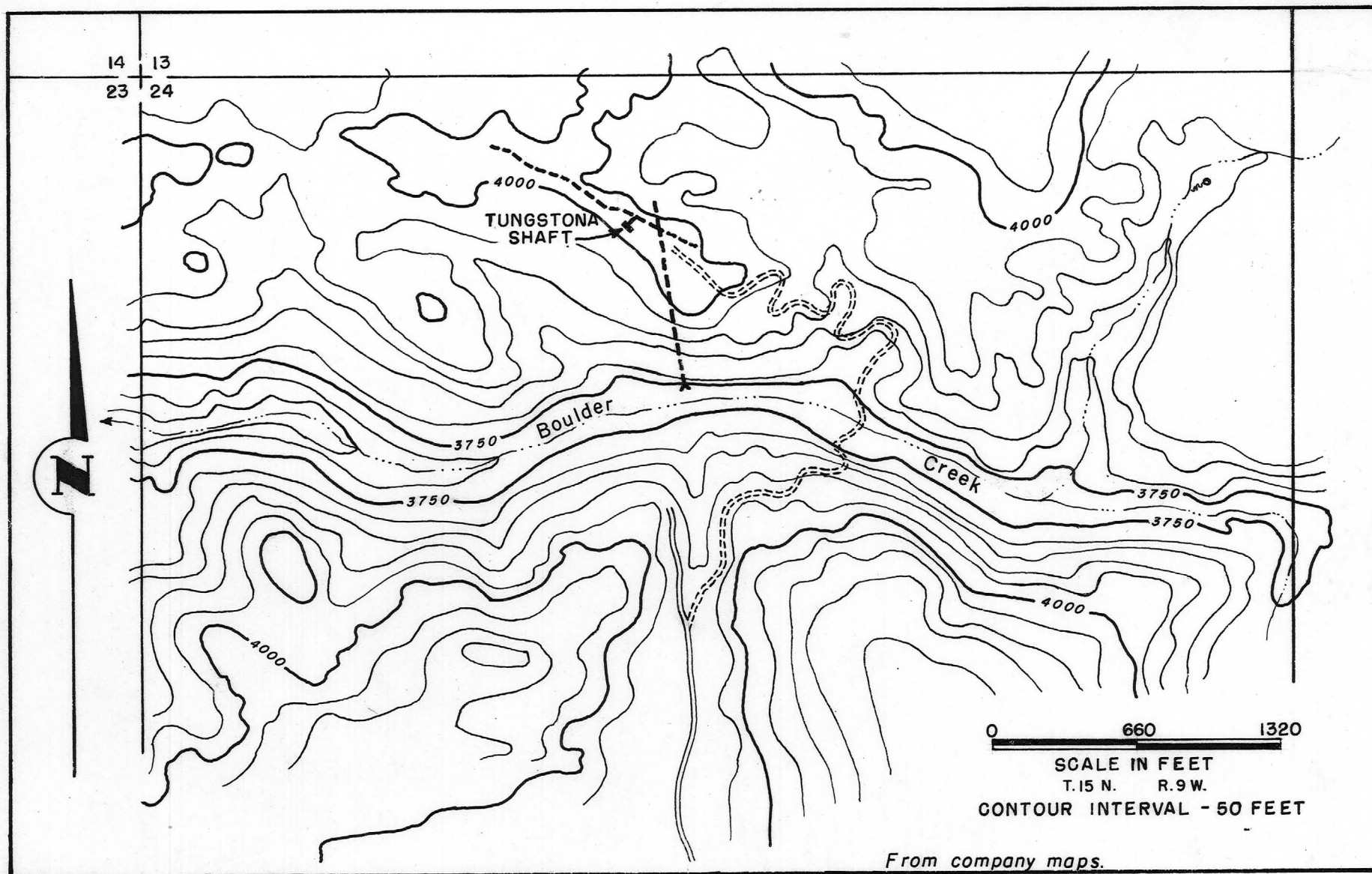


FIGURE 24. - TOPOGRAPHIC MAP - TUNGSTONA MINE
YAVAPAI COUNTY, ARIZ.

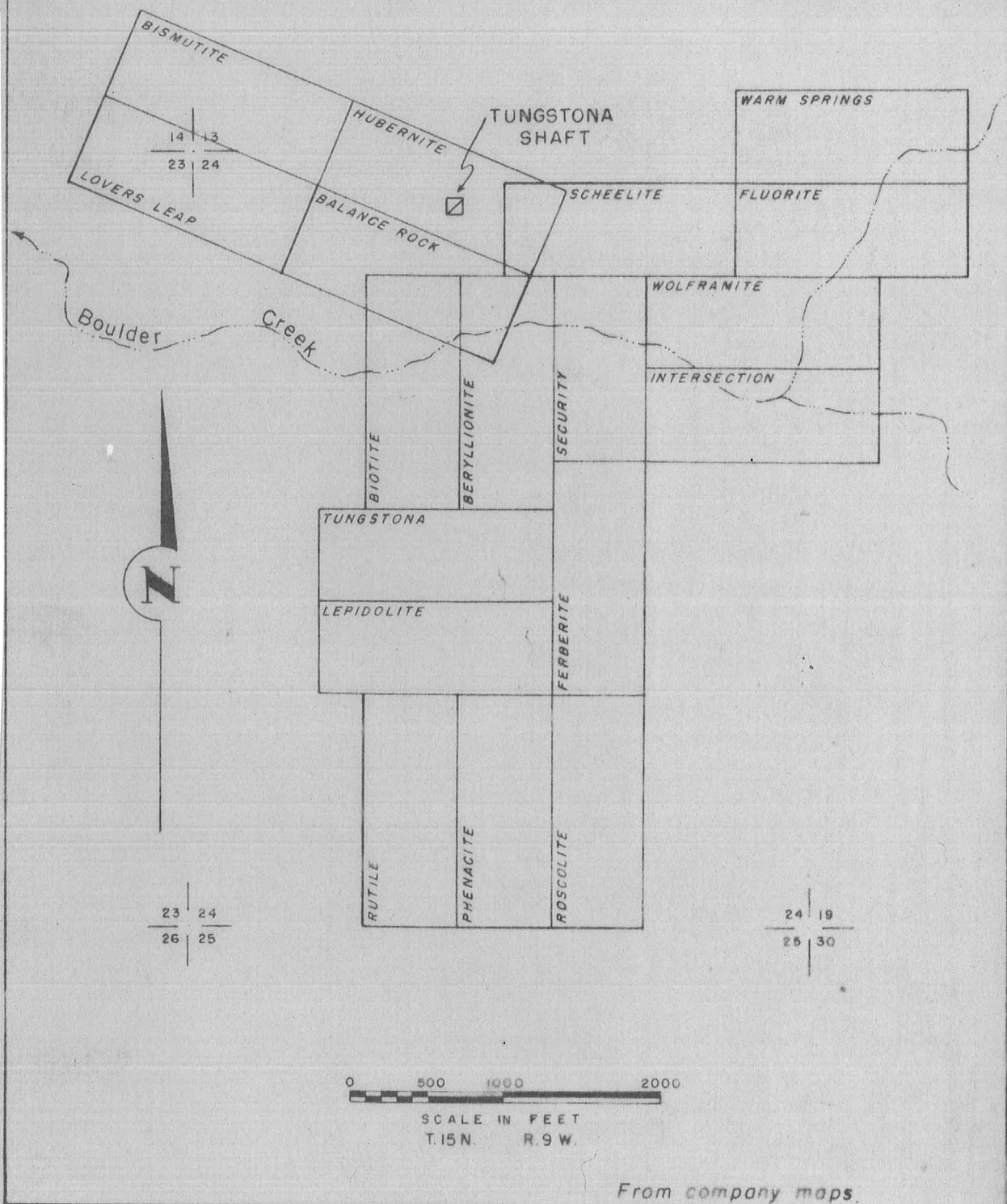


FIGURE 22. - CLAIM MAP - TUNGSTONA MINE
YAVAPAI COUNTY, ARIZONA

TUNGSTONA MILL FLOWSHEET
HILLSIDE MINING AND MILLING COMPANY

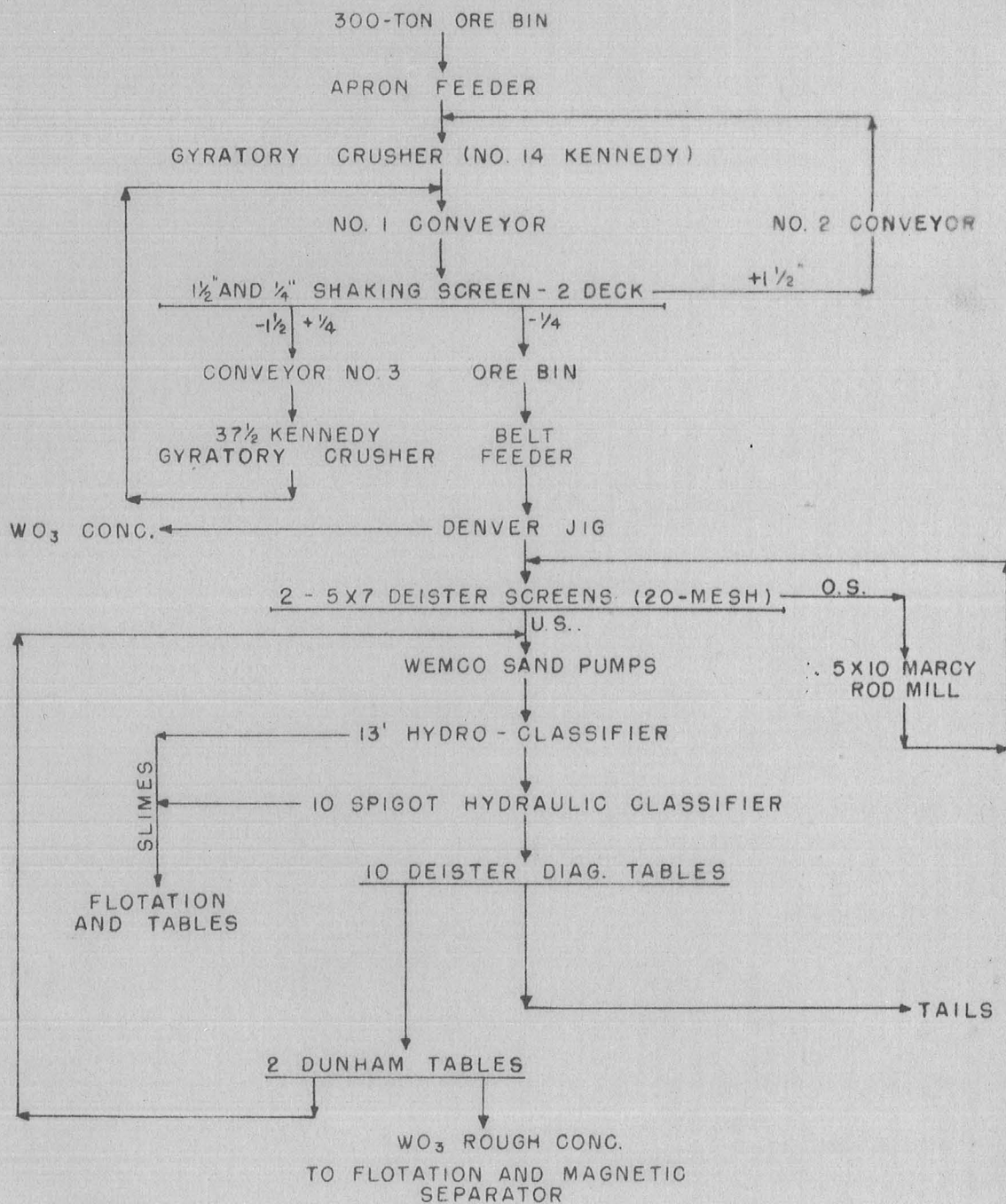


FIGURE 25. - MILL FLOW SHEET - TUNGSTONA MINE
YAVAPAI COUNTY, ARIZONA

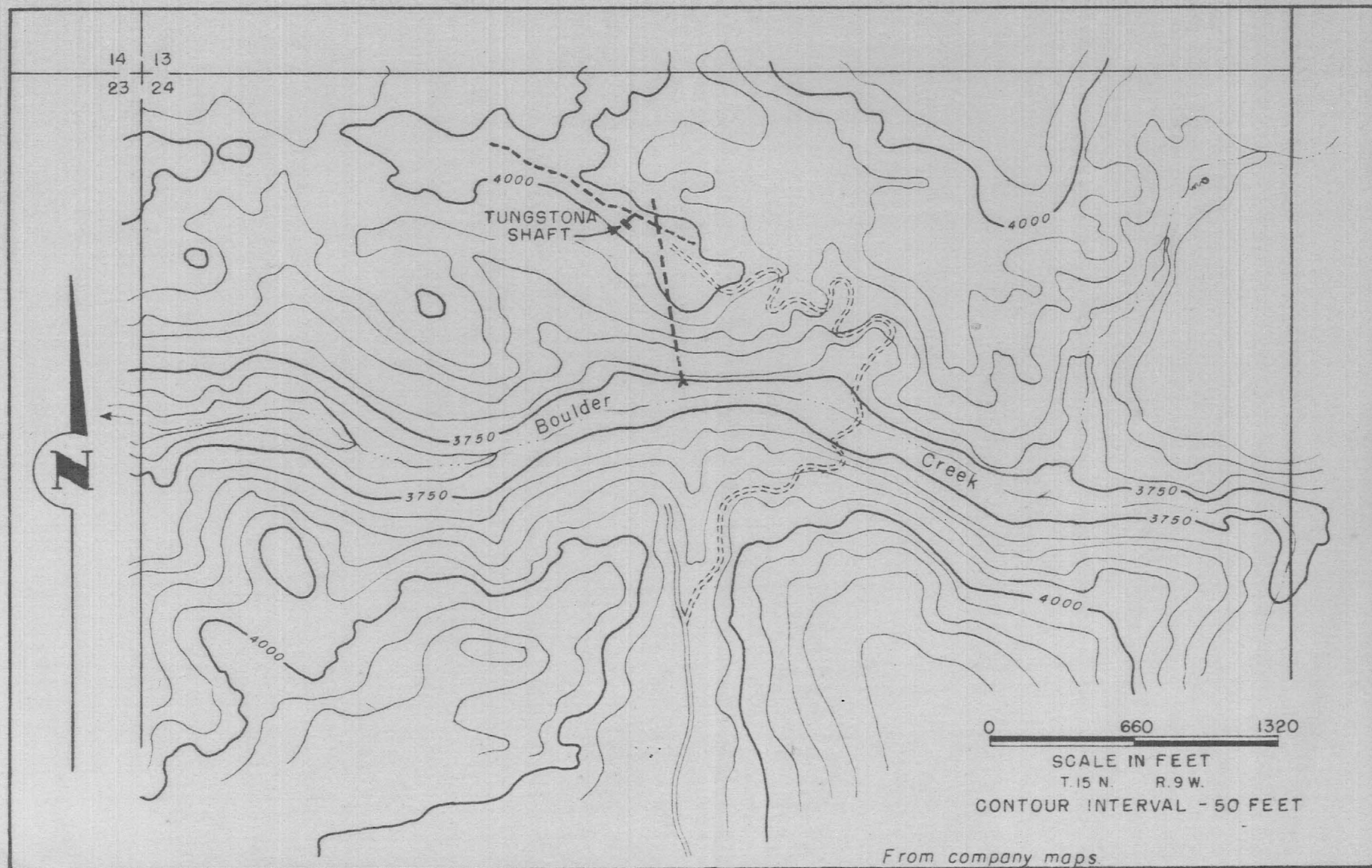


FIGURE 24. - TOPOGRAPHIC MAP — TUNGSTONA MINE
YAVAPAI COUNTY, ARIZONA

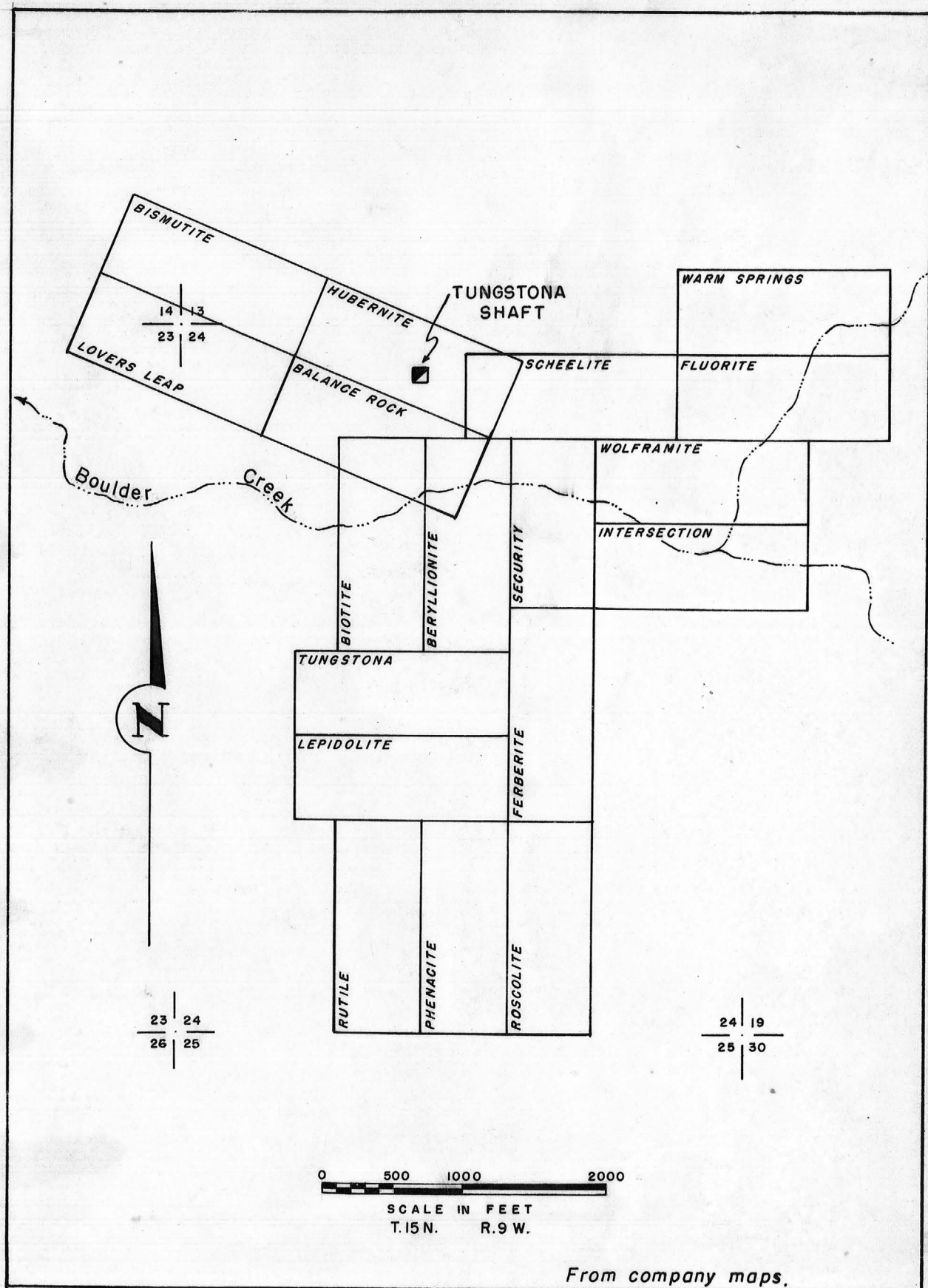


FIGURE 22. - CLAIM MAP - TUNGSTONA MINE
YAVAPAI COUNTY, ARIZ.

TKIM)

TUNGSTONA MILL FLOWSHEET
HILLSIDE MINING AND MILLING COMPANY

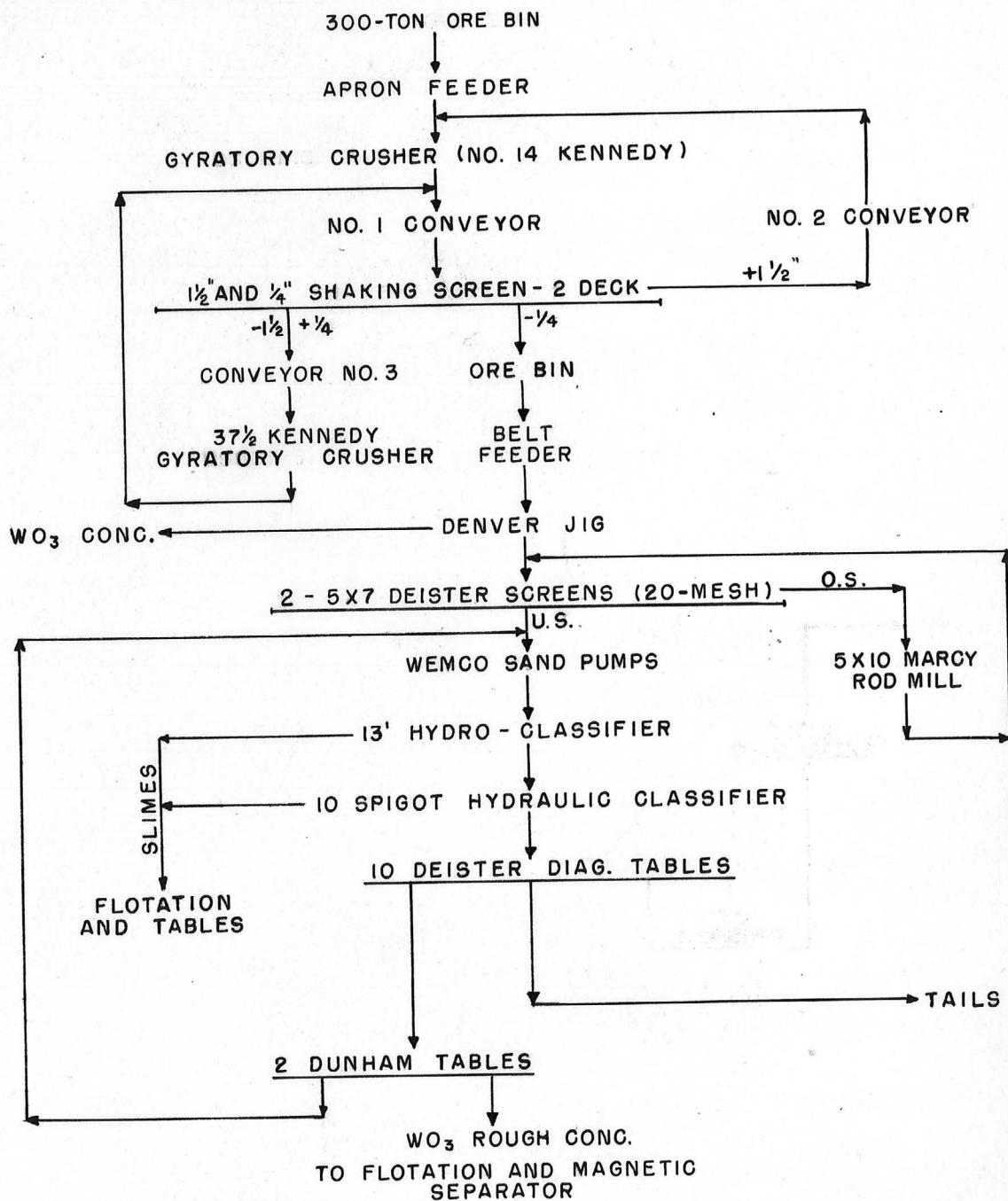


FIGURE 25. - MILL FLOWSHEET TUNGSTONA MINE
YAVAPAI COUNTY, ARIZ.

TUNGSTONA MINE

YAVAPAI COUNTY

EUREKA DIST.

T15N R9W Sec. 24, 13, 14 & 23

MILS # 144

"TWO DESERTED MINES PURCHASED"

Special to The Gazette -

BAGDAD - Two deserted mines in this area have been purchased for salvage purposes.

The mills and remaining buildings at the Hillside and Tungstona mines are being dismantled and hauled away.

George Mangun, Wickenburg, purchased the two mines.

From - GAZETTE - 5-8-62

Salvage operations are underway at two lone-idle mines in the Bagdad district of Arizona, following the acquisition of the mills and buildings by George Mangun of Wickenburg, Arizona. The properties are the HILLSIDE mine and the near-by TUNGSTONA.

Taken from MINING WORLD, August 1962, p 34.

*
I.C. 8078 - p.53-57, 43

See: USGS Professional Paper # 278 - Page 45

MILS Sheet sequence number 0040251510 (p. 9627)

Maps upstairs in the flat storage area - Drawer 5 - 2 places

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*

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

INFORMATION FROM MINE CARDS IN MUSEUM

ARIZONA
Yavapai County
Near Bsgdad
Tungstona Mine

MM K941 Wolframite

MILS #144

2-ARAL

Tungstona Mine & milling Plant (file)

May 1, 1957

M. Gemmill reported:

(Warrell Tungsten) - ^{Now} Tungstona (file)
Yavapai Co.
Owned by Hillside M & M Co.

Weekly Report - 7-14-58

Visited Tungstona Mine. Bagdad has recently purchased this property (but not the mill) from Hillside Mining Co. The property is idle. At the time of visit a Bagdad crew was connecting a pipe line to Bagdad to supply domestic water from a well on the Tungstona property.

*

T.P.LANE

Tungstona Mine

T. 15 N., R. 9 W.

Yavapai County

reference: Arizona Dept of Mineral Resources
Tungstona Mine and Milling Plant (file)

minerals: tungsten, wolframite, scheelite

present owner:

history of the area:

work on the property began in 1952 but was unprofitable so the operation shut down so that a new mill could be built. The original mill had a 100 tons per day capacity. The new mill had a 250 tons per day capacity and began operating in 1954. This was also unprofitable so the property closed. The mill was used occasionally to treat ore from the Black Pearl during 1956. Throughout this period, the mine was owned by the Hillside Mining and Milling, Co.

The property was owned by Julius Commode and leased by W. H. Warrell in 1942. No work was done.

In 1962 the property was purchased by George Mangun of Wickenburg (also purchased Hillside property) who dismantled the buildings and had them hauled away.

By 1973 the property had been purchased by the Bagdad Copper Company. They used the property for water

geology:

tungsten minerals disseminated along a fracture zone in monzonite; low grade ore

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Tungstona

Date March 23, 1957

District Eureka

Engineer Mark Gemmill

Subject: Present Status

Owned by the Hillside Mining & Milling Co. is located about 4 miles upstream from the Hillside mine on Boulder Creek and is reached by road from Bagdad a distance of about 10 miles.

It is a tungsten mine the mineral being wolframite, disseminated along a fractured zone in Monzonite. Mineralization was reported along this zone for several thousand feet and with widths up to 100 ft. However mining was on a much narrower basis, the concentration of values being close to the main fracture.

Development consists of an adit tunnel driven along the ore zone which was later connected with a shaft, the collar of which is about 200 ft. above the tunnel level. This shaft was continued some 200 ft. below the tunnel level, with drifts run at 100 ft. intervals. It is reported that the mine is developed for about 1000 ft. along the ore zone.

Work on the property commenced in 1952, the ore produced was hauled to the Hillside mill for treatment. The grade of the ore being quite low, and the mill capacity being only 100 tons per day, this was found to be unprofitable. Electric power was brought to the mine and a new mill of about 250 tons capacity was built at the mine. This mill came into operation sometime in 1954 but the entire project was shut down later. It was reported to be unprofitable. The mill was used to treat ore from the Black Pearl during 1956.

Production figures and maps of the mine could probably be obtained from Mr. Geo. Colville, Bagdad, who was in charge of the Hillside M. & M. Co. operations.

*

C O P Y

NEWS ITEM

Received in office Oct. 14, 1954

Tungstona Mining & Milling Co. E. R. Dickie, Pres. and Genl mgr. Bagdad, has about completed a 500 ton milling plant located at the Tungstona mine 12 miles North East of Bagdad. ~~But~~ Construction of the plant has been in progress for the past year during which time a shaft has been sunk to a depth of 300 ft below the adit tunnel. Levels have been run and preparartion for ore production is under way.

Mark Gemmill

*

HILLSIDE MINING & MILLING CO.

12-6-52 - Mark Gemmill Report

The operations of this company are now almost entirely given over to mining and milling Tungsten ore from the Tungstona mine. During the past year an extensive program of development has been carried on at the mine. Mr. Dickie stated that they have definitely proven a very large body of low grade tungsten ore which also carries a small percentage beryl. Present production at the mine averages 125 tons per day. The mill capacity is 10 to 12 tons per hour and is being operated enough hours each day to handle the mine production. Mine production is being stepped up as rapidly as possible. Mine work is now hampered by lack of power, which consists of Diesel driven equipment. A power line is being extended from Bagdad to the mine. When this is in everything will be electrified. Concentration of the ore is done with tables followed by flotation and magnetic separation to refine and separate the tungsten minerals. Wolframite is the principal product with a smaller percentage of schelite. Both products are brought up to a prime grade and bring the top price. It was stated that the recovery percentage is very satisfactory. Tests are being made to determine a method of recovering the Beryl content in the ore which is now being lost. Mr. Dickie stated that the future plans are for a plant of several thousand tons capacity when proven feasible. A shipment of $6\frac{1}{2}$ tons of high grade tungsten concentrate was recently made from the mill.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

MW-35

Date September 5, 1942

1. Mine Warrell Tungsten
2. Mining District & County Yavapai County, Eureka Mining District
3. Former name
4. Location
5. Owner Julius Commod, Locator
W. H. Warrell, Lessee
6. Address (Owner) c/o Boulder Mining Company
Hillside, Arizona
7. Operator
8. Address (Operator) (Recorded 15 agree-
ments. 511/512
Yavapai County)
9. President
10. Gen. Mgr.
11. Mine Supt.
12. Mill Supt.
13. Principal Metals Tungsten
14. Men Employed
15. Production Rate
16. Mill: Type & Cap.
17. Power: Amt. & Type
18. Operations: Present No development.
19. Operations Planned
20. Number Claims, Title, etc. 3 Claims: "Bismuthinite", "Beryllionite" & "Hubernite"
unpatented, Location Notice Yavapai County, Book 137 Mines, Pages 276, 277, 278.
21. Description: Topography & Geography
22. Mine Workings: Amt. & Condition

*

23. Geology & Mineralization

(Scheelite) Calcium tungstate

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

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

25. Mine, Mill Equipment & Flow Sheet

26. Road Conditions, Route Turn off from Wild Horse Basin Road approximately five miles from Hillside to Bagdad Road. Road passable to within one to two miles of property by car. Balance of road must be improved as it has washed out in places since building and not in use for some time.

27. Water Supply Unlimited both for milling and domestic use. Good domestic spring on property.

28. Brief History

29. Special Problems, Reports Filed

30. Remarks

31. If property for sale: Price, terms and address to negotiate.
cash or on royalty basis. \$35,000 cash.

Property for sale or lease for

32. Signed..... Wm. H. Warrell

33. Use additional sheets if necessary.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

MW-35

Date September 5, 1942

1. Mine Warrell Tungsten
2. Mining District & County Yavapai County, Eureka Mining District
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4. Location
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W. H. Warrell, Lessee
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Hillside, Arizona
7. Operator
8. Address (Operator) (Recorded 15 agree-
ments. 511/512
9. President
10. Gen. Mgr. Yavapai County)
11. Mine Supt.
12. Mill Supt.
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23. Geology & Mineralization

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DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

MW-35

Date September 5, 1942

1. Mine **Warrell Tungsten**
2. Mining District & County **Yavapai County, Eureka Mining District**
3. Former name
4. Location
5. Owner **Julius Commod, Locator**
W. H. Warrell, Lessee
6. Address (Owner) **e/o Boulder Mining Company**
Hillside, Arizona
7. Operator
8. Address (Operator) **(Recorded 15 agree-**
ments. 511/512
Yavapai County)
9. President
10. Gen. Mgr.
11. Mine Supt.
12. Mill Supt.
13. Principal Metals **Tungsten**
14. Men Employed
15. Production Rate
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17. Power: Amt. & Type
18. Operations: Present **No development.**
19. Operations Planned
20. Number Claims, Title, etc. **3 Claims: "Bismuthinite", "Beryllionite" & "Hubernite"**
unpatented, Location Notice Yavapai County, Book 137 Mines, Pages 276, 277, 278.
21. Description: Topography & Geography
22. Mine Workings: Amt. & Condition

23. Geology & Mineralization

(Scheelite) Calcium tungstate

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

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

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26. Road Conditions, Route Turn off from Wild Horse Basin Road approximately five miles from Hillside to Bagdad Road. Road passable to within one to two miles of property by car. Balance of road must be improved as it has washed out in places since building and not in use for some time.

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28. Brief History

29. Special Problems, Reports Filed

30. Remarks

31. If property for sale: Price, terms and address to negotiate.
cash or on royalty basis. \$35,000 cash.

Property for sale or lease for

32. Signed Wm. H. Warrell

33. Use additional sheets if necessary.

*

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

Date September 5, 1942

1. Mine *Warrell Tungsten*
2. Location Eureka Mining District,
Yavapai County
3. Mining District & County
4. Former name
5. Owner Julius Commod, Locator
6. Address (Owner) W. H. Warrell,
Lessee
7. Operator
8. Address (Operator) (Recorded 15 agree-
ments. 511/512,
9. President, Owning Co.
- 9A. President, Operating Co. Yavapai County)
10. Gen. Mgr.
14. Principal Minerals *Tungsten*
11. Mine Supt.
15. Production Rate
12. Mill Supt.
16. Mill: Type & Cap.
13. Men Employed
17. Power: Amt. & Type
18. Operations: Present
- No development
19. Operations: Planned
20. Number Claims, Title, etc. 3 Claims: "Bismuthinite", "Beryllionite" &
"Hubernite" unpatented, Location Notice Yavapai County, Book 137
Mines, Pages 276, 277, 278.
21. Description: Topography & Geography
22. Mine Workings: Amt. & Condition

(over)

23. Geology & Mineralization

(Wheelite) Calcium tungstate

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

24A. Dimensions and Value of Ore body

25. Mine, Mill Equipment & Flow-Sheet

26. Road Conditions, Route

Turn off from Wild Horse Basin Road approximately five miles from Hillside to Bagdad Road. Road passable to within one to two miles of property by car. Balance of road must be improved as it has washed out in places since building and not in use for some time

27. Water Supply

Unlimited both for milling and domestic use. Good domestic spring on property.

28. Brief History

29. Special Problems, Reports Filed

30. Remarks

31. If property for sale: Price, terms and address to negotiate.
or on royalty basis.

Property for sale or lease for cash

32. Signature

[Handwritten Signature]

33. Use additional sheets if necessary.

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

1. Mine
2. Location *Eureka Mining District, Yavapai County*
3. Mining District & County
4. Former name
5. Owner *Julius Commod.*
6. Address (Owner) *W. H. Wamell,*
7. Operator *Locator.*
8. Address (Operator) *Terrell*
9. President, Owning Co.
- 9A. President, Operating Co. *(Recorded 15 Agreements, 5/11/512, Yavapai Co.)*
10. Gen. Mgr.
14. Principal Minerals
11. Mine Supt.
15. Production Rate
12. Mill Supt.
16. Mill: Type & Cap.
13. Men Employed
17. Power: Amt. & Type
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21. Description: Topography & Geography

22. Mine Workings: Amt. & Condition

X

23. Geology & Mineralization

(Scheelite) Calcium tungstate

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28. Brief History

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30. Remarks

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Property for sale or lease for

Cash or on royalty basis.

approximately \$35,000.00

for Cash

32. Signature

W. H. Daniel "Lease"

33. Use additional sheets if necessary.

C O P Y
DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine TUNGSTONA MINING AND MILLING CO.

Date April 27, 1955

District TO-R. I. C. Manning, Director

Engineer Mark Gemmill

Subject: NEWS ITEM

TUNGSTONA MINING AND MILLING CO.

The new mill is operating regularly on a three shift basis with a daily capacity of about 260 tons.

MARK GEMMILL

MINING WORLD - 7-55

E. G. Green, superintendent

4/1953

Min World

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