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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: BIG FOUR TUNGSTEN

ALTERNATE NAMES:
VALLEY VIEW

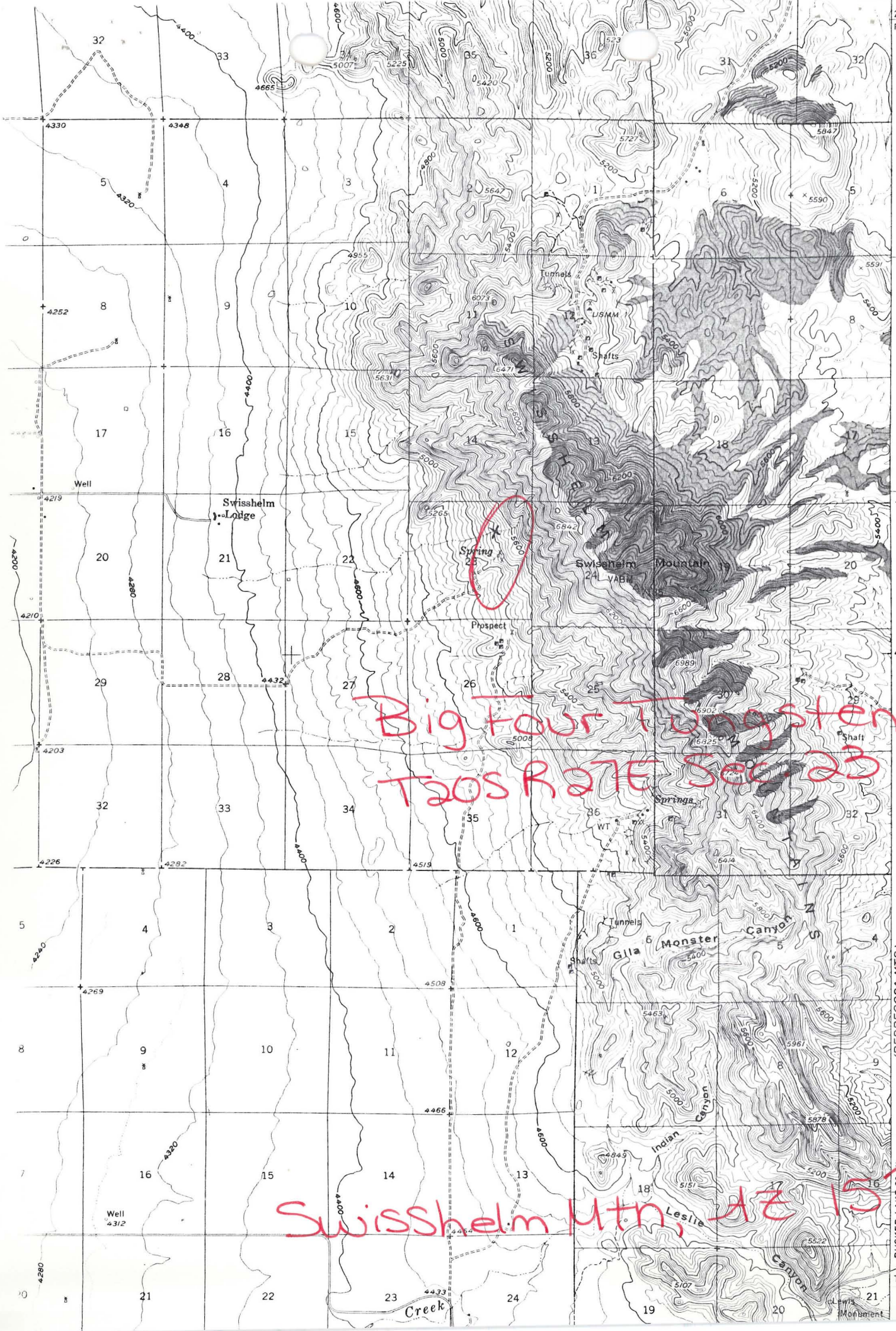
COCHISE COUNTY MILS NUMBER: 604

LOCATION: TOWNSHIP 20 S RANGE 27 E SECTION 26 QUARTER NE
LATITUDE: N 31DEG 40MIN 00SEC LONGITUDE: W 109DEG 33MIN 15SEC
TOPO MAP NAME: SWISSHELM MOUNTAIN - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
TUNGSTEN
COPPER

BIBLIOGRAPHY:
ADMMR BIG FOUR TUNGSTEN FILE
DALE, V.B., ET.AL., 1960, TUNGSTEN DEPSOITS OF
COCHISE, PIMA, SANTA CURZ, COUNTIES ARIZONA;
US BUR. MINES RPT. INVST. 5650, P. 58-61



Spring 23

Big Four Tungsten
T20S R27E Sec 23

Swissshelm Mtn, AZ 15

T. 20 S.

40'

(PEDREGOSA MTS.)

T. 21 S.

RUCKER LAKE 23 N.

Monument

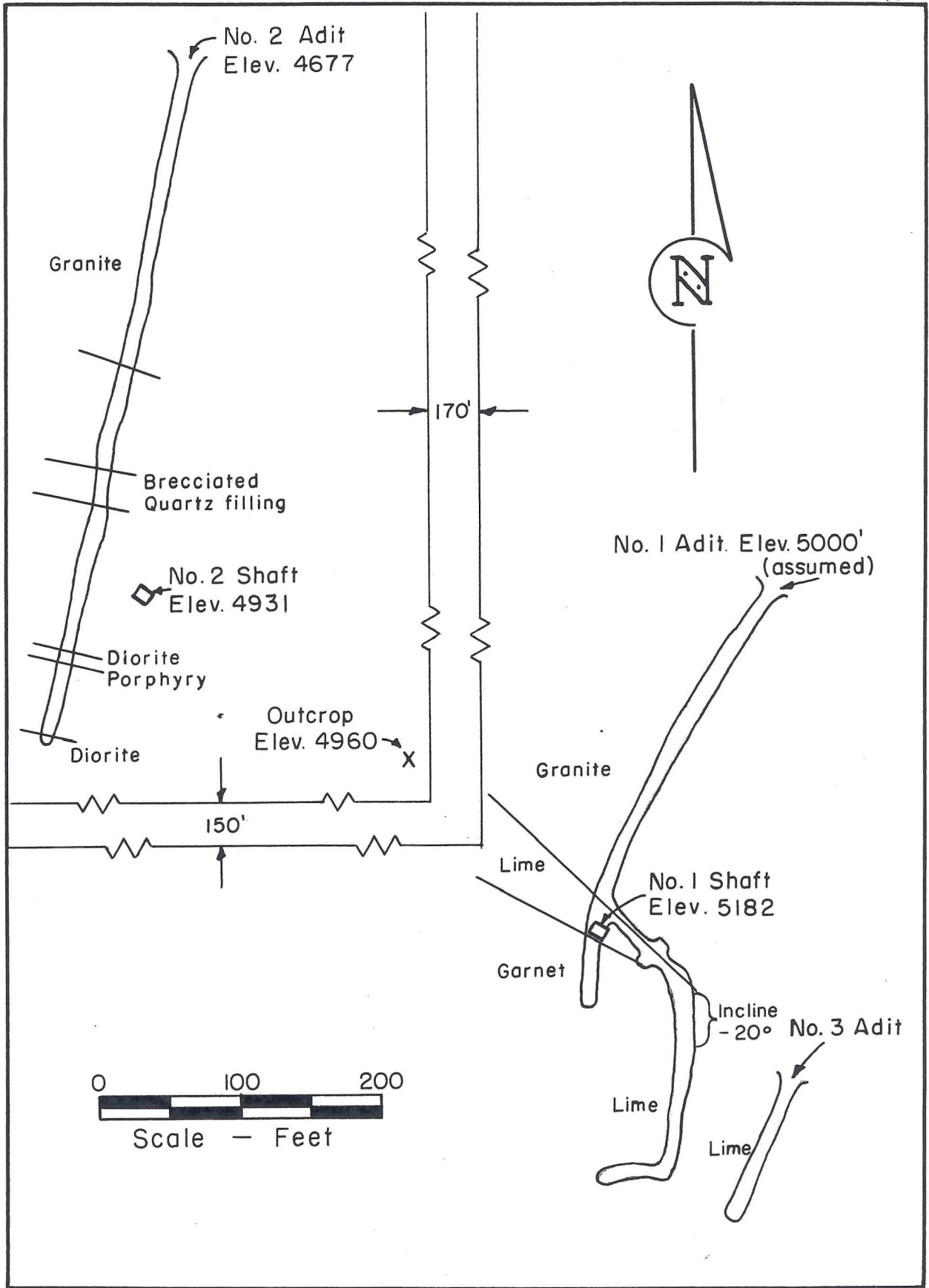


Fig.22-Big Four Mine, Swisshelm Mts., Cochise County, Arizona

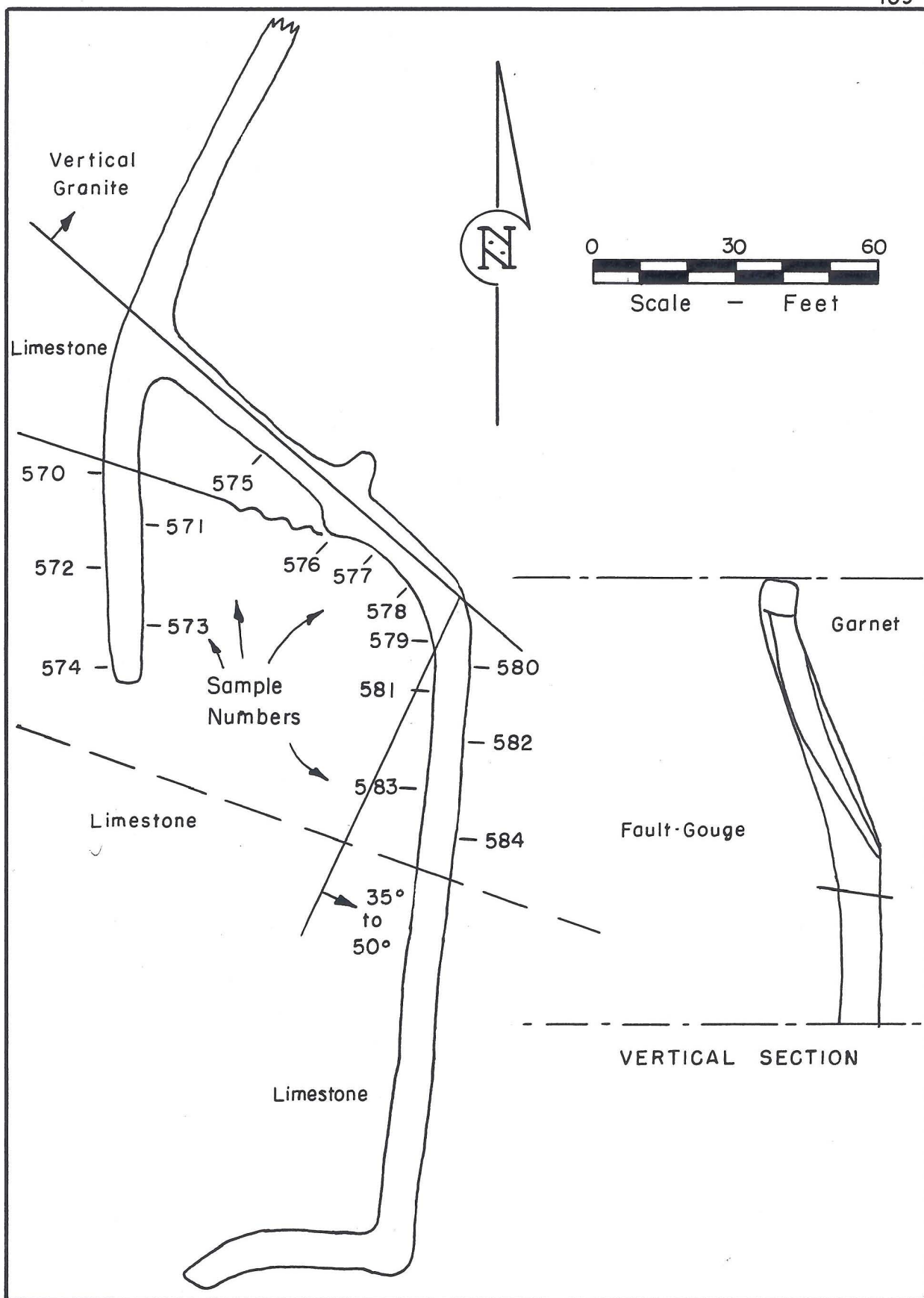


Fig. 23-No. 1 Adit, Big Four Mine, Swisshelm Mts.
Cochise County, Ariz.

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

~~December 10, 1957~~

January 30, 1958

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

BIG FOUR TUNGSTEN
(Property)

TUNGSTEN (SCHEELITE)
(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.

OF MINERAL RESOURCES
E OF ARIZONA
Bldg., Fairgrounds
NIX, ARIZONA

Enc: Mine Owner's Report

Not AX
491



REASON CHECKED
Unclaimed.....Refused.....
Unknown.....
Insufficient address.....
Moved, Left no address.....
No such office in state.....
Do not remain in this envelope

MRS. THEA WILLIAMSON
P. O. BOX 491
Douglas, Arizona

Douglas Ariz 7-29-42

Mr J. S. Coupal

Dear Sir

I am sending you
a description of the
Big Four group of
Tungsten Claims
and low Rock sample

this property will sell
lease or stake capital

to work it we are doing
some work on the
road to make it passable

if you should send
someone down I

am stopping at
Elfrida

Yours Truly Theo Williamson

August 4, 1942

Mr. Thea Williamson
P. O. Box 491
Douglas, Arizona

Dear Mr. Williamson:

Many thanks for your letter of July 29 with the information on the Big Four Tungsten Mine. I have made out a Mine Owner's Report on the description you submitted and will place this in our files and call it to the attention of any inquiries that come in for a tungsten property.

Have you considered making an application for an RFC development loan on this property? If you have not, I would suggest that you write to the RFC Mine Loan Division, 325 Heard Building, Phoenix, and ask for application blanks for a development mining loan.

With best wishes and kindest regards, I am

Yours very truly,

J. S. Coupal, Director

JSC:LP

August 26, 1942

Mr. Thea Williamson
P. O. Box 491
Douglas, Arizona

My dear Mr. Williamson:

I am enclosing herewith a copy of mine owner's report filed with this department covering the **BID FOUR TUNGSTEN MINE**, in the Swisshelm Mountains, Cochise County.

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

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

Yours very truly,

J. S. Coupal

JSC:hal

Enclosure

THE BIG FOUR GROUP OF TUNGSTEN CLAIMS

COCHISE, COUNTY ARIZONA

The "Big Four" is a group of four claims located on the west slope of the Swisshelm mountains, about eight miles in an easterly direction from Elfrida, Arizona. A epidote and garnet dyke, 10 to 50 feet wide, carrying sheelite and running southeast and northwest, occurs in a granite and lime contact and crops on the surface for a distance of about 1200 feet.

Near the east end of the contact and dyke cropping, a crosscut tunnel 400 feet in length, driven through the granite, penetrates this garnet dyke for a distance of 75 feet at a depth below the surface of about 250 feet; this crosscut did not reach the lime contact. There is a drift east from this crosscut for about 75 feet along the granite and garnet contact; another crosscut runs into the garnet dyke and to the lime contact at this point and shows the dyke to have a width of about 30 feet. Several assays taken in this crosscut shows values of from 34/100 to 48/100 W03. No assays were taken in the main crosscut but the garnet dyke shows sheelite under the lamp as far as it was penetrated--a distance of about 75 feet.

About 500 feet west of the tunnel and, owing to the contour of the ground, about on a level with it, the garnet dyke crops strongly and shows sheelite under the lamp for a width of over 50 feet. No assays were taken. This cropping continues for about 300 feet. Some 200 feet farther west the garnet dyke again occurs in the granite and lime contact and shows a width of from 10 to 25 feet. Assays taken from this cropping give returns of 28/100 and 34/100 W03.

A lower tunnel about 600 feet in length was drive apparently to cut the garnet dyke at a point about 700 feet west of the 400 feet crosscut. This lower tunnel has a depth of nearly 400 feet under the upper one. This work was all done years ago trying to find a copper mine. The lower tunnel has not reached the garnet dyke nor the lime contact but it is apparently within a very few feet of it. This tunnel is open and is in good shape but there is no track in it.

It would be comparatively inexpensive to prove whether or not this prospect would develop into a commercial tungsten mine. This could be done by continuing the lower tunnel to the lime and granite contact and then drifting east under the big garnet showing on the surface.

About 3 miles of a well-laid out wagon road was built up the canyon to the mouth of the lower tunnel. It is in fair condition and could be made into a good truck road for a sum not exceeding one thousand dollars. This road connects with a good road to Elfrida.

The expenditure of about \$5000 on this prospect has the possibility of developing ore sufficient to justify the building of a 500 ton mill.

Ther Billiamson
P.O. Box 491
Douglas - Arizona

15. r.

BIG FOUR TUNGSTEN

W

Cochise

2 - 3

T 20 S, R 27 E

Thea Williamson, Box 491, Douglas.

'42

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

Date: July 30, 1942

1. Mine: Big Four Tungsten
2. Location: 8 miles east from Elfrida.
3. Mining District & County:
Swisshelm Mts., Cochise Co.
4. Former name
5. Owner: Thea Williamson
6. Address (Owner): P.O. Box 491,
Douglas, Arizona
7. Operator: Same
8. Address (Operator)
9. President, Owning Co.
- 9A. President, Operating Co.
10. Gen. Mgr.
14. Principal Minerals: Tungsten
(scheelite)
11. Mine Supt.
15. Production Rate
12. Mill Supt.
16. Mill - type & cap.
13. Men Employed
17. Power - Amt. & Type
18. Operations - Present: Road work to mine.
19. Operations - Planned: Drive tunnel to cut.
20. Number Claims, Title, etc.: 4 unpatented claims.
21. Description - Topography & Geography: Foothills of Swisshelm Mountains.
22. Mine Working, Amt. & Condition: Crosscut tunnel 400 ft. long cut dyke and has 75 ft. drift along contact. Also a 600 ft. tunnel at 400 ft. lower elevation but lacks a short distance of cutting garnetised dyke. All in good shape.

(Over)

23. Geology & Mineralization: An epidote and garnet dyke 10 to 50 feet wide, carrying scheelite occurs in a granite lime contact. Outcrops 12000 feet in length.
24. Ore, Positive & Probalbe, Ore Dumps, Tailings: Mineralized showing over a width of 50 ft. Shows scheelite under lamp for 50 feet in width on outcrop.
- 24A. Dimensions and Value of Ore Body: Values in dyke show .34 to .48T WO₃. Scheelite shows over width of 30 to 50 ft. Outcrop .28 to .34% WO₃.
25. Mine, Mill Equipment & Flow-Sheet: None.
26. Road Conditions, Route: Good road from Elfrida to mine, now being repaired.
27. Water Supply: Ample from nearby sources.
28. Brief History
29. Special Problems, Reports Filed: Inexpensive to prove whether or not this mill will make a large commercial tungsten mine.
30. Remarks: Owner claims expenditure of \$5,000 will show enough ore to warrant erection of a large mill.
31. If property for sale - Price, terms and address to negotiate: Will sell lease, or give interest to capital for funds to work property.

Signed: Theo Williamson

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

m B-85

Date 7/30/31

Mine Big Four Jungsten ✓

2. Location 8 miles W of Corn ALFRIDA.

Mining District & County Missisheim Mts. Cochise County.

Former name
Owner THEA WILLIAMSON ✓

6. Address (Owner) P.O. Box 491 DOUGLAS - ARIZ.

Operator same

8. Address (Operator)

President, Owing Co. —

9A. President, Operating Co. Jungsten (Scheelite)

Gen. Mgr. —

14. Principal Minerals

Mine Supt. —

15. Production Rate

Mill Supt. —

16. Mill: Type & Cap.

Men Employed

17. Power: Amt. & Type

Operations: Present Road work to mine.

Operations: Planned Drive tunnel to cut

Number Claims, Title, etc. 4 unpatented claims

Description: Topography & Geography Good hills of Missisheim mountains

Mine Workings: Amt. & Condition Crosscut tunnel 400 ft. Long cuts ^{dyke} Ben and has 75 ft drift along contact. Also a 600 ft. tunnel at 400 ft. lower elevation - but lacks a short distance of cutting garnetized dyke. All in good shape

Geology & Mineralization An epidote & garnet dyke to 50 ft wide -
Carrying the ore occurs in a 100 ft. base contact.
Outcrops 12000 feet in length.

Ore: Positive & Probable, Ore Dumps, Tailings
Numerical estimation showing on a width of 50 ft.
Shows scheelite under lamp for 50 feet in
width on outcrop -

A. Dimensions and Value of Ore body
values in dyke - show .34 & .48% - WO_3 . Scheelite shows
on width of 30 to 50 ft. Outcrops - .28 & .34% - WO_3 .

Mine, Mill Equipment & Flow-Sheet none.

Road Conditions, Route Good road from Esfida to mine, now being
repaired.

Water Supply Ample from nearby sources.

Brief History

Special Problems, Reports Filed Surveys to prove whether or not this mill
make a large commercial tungsten mine.

Remarks Owner claims expenditure of 5000 will show
enough ore to warrant erection of a large mill.

If property for sale: Price, terms and address to negotiate. Will sell - lease - or give
interest to capital for funds to work property.

32. Signature Thea Williamson