

MINERAL SURVEY No. 3649

LOT No.

Arizona Land District.

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

W. A. Schwartz, I. Jacobson and Julia Wartenberg

KNOWN AS THE

TORNADO lode

Warren Mining District,

Cochise County, Arizona.

Section 13 (Unapproved) Township 23 S, Range 23 E. G & S R B & M

Surveyed under instructions dated January 3, 1920

by Ralph L. Motz U. S. Mineral Surveyor.

Claim located see location notice, 19

Survey commenced January 15th, 1920

Survey completed January 16th, 1920

Address of claimant's attorney, S. K. Williams, Bisbee, Ariz.

DATES OF AMENDED LOCATIONS.

MINERAL SURVEY No. 3649

TORNADO lode

Beginning at Cor. No. 1, the S E Cor., identical with location and with the N E Cor. of the Los Tiempos lode unsurveyed, a pine post 4 ft. long, 4 ins. sq. set 18 ins. in the ground in a mound of stones and scribed 1-3649 T, whence a limestone ledge with 12 x 30 x 5 ins. high exposure chiseled B R x 1-3649 brs S 80° 10' W 13.6 ft. and a quartzite ledge with 99 x 166 x 163 ins. high exposure with like chiseling brs N 27° 30' W 38.3 ft. The N W Cor. of Sec. 30, T 23 S, R 24 E G & S R B & M brs S 16° 01' E 6542.5 ft.

thence N 86° 50' W 860.0 cross gulch course southwesterly

1332.0 cross gulch course southwesterly

1500.0 to Cor. No. 2, the S W Cor., identical with location and with the N W Cor. of the Los Tiempos lode unsurveyed a redwood post 4 ft. long 4 ins. sq. set 18 ins. in the ground in a mound of stones and scribed 2-3649 T. Whence a limestone ledge with 15 x 33 x 8 ins. high exposure chiseled B R x 2-3649 brs S 17° 05' E 6.4 ft. and a second limestone ledge with 14 x 19 x 16 ins. high exposure with like chiseling brs N 75° 54' E 62.0 ft.

thence N 27° 30' W 110.4

to the N E and S E Cors of the Waneta No. 1 and the Yellow Astor lodes, respectively, both unsurveyed

347.4 to original location for the west end center being a mound of stones 3 ft. high with 3 ft. base

694.8 to Cor. No. 3, the N W Cor., identical with location and with the S W Cor. of the Wilma lode unsurveyed, a redwood post 4 ft. long 4 ins. sq. set 18 ins. in the ground in a mound of stones and scribed 3-3649 T, whence a limestone ledge with 18 x 40 x 4 ins high exposure chiseled B R x 3-3649 brs N 29° 10' W 37.9 ft and a second limestone ledge with 62 x 62 x 28 ins. high exposure with like chiseling brs N 82° 42' E 14.3 ft.

thence S 86° 50' E

731.0 cross gulch course southerly
 1500.0 to Cor. No. 4, the N E Cor., identical with location and
 with the S E Cor. of the Wilma lode unsurveyed, a pine
 post 4 ft. long, 4 ins. sq. set 18 ins. in the ground
 in a mound of stones and scribed 4-3649 T, whence a
 porphyry rock in place 19 x 16 x 44 ins. above ground
 chiseled B R x 4-3649 brs N 6° 55' E 31.4 ft and a second
 porphyry rock in place 4 x 21 x 13 ins high above ground
 with like chiseling brs S 87° 39' W 20.6 ft.
 thence S 27° 30' E
 347.4 to original location for the east end center, being a
 mound of stones 3 ft. high with 3 ft. base
 584.4 to the S W and N W Cors of the Barbarosia and Nob Hill
 No. 1 lodes, both unsurveyed, respectively.
 694.8 to Cor. No. 1, the place of the beginning.

LEDGE

the presumed course of the vein on this claim is from
the east end center N 86° 50' W 1500.0 ft.

AREA

Total and net area Tornado lode - - - - - 20.580 A

LOCATION

this survey is located in Sec. 13 (unapproved), T 23 S,
R 23 E, G & S R B & M, in the Warren Mining District,
Cochise County, Arizona.

IMPROVEMENTS

I hereby certify that the value of the labor and im-
provements placed upon this claim by the claimants or
their grantors was at time of survey as follows.

No. 1 Discovery open cut 4 x 8 x 12 ft long brg N 20° W
 mouth of which brs from east end center on lode line
 600 ft. Value - - - - - \$ 50.00

ADJOINING CLAIMS

North Wilma lode unsurveyed, owned by C. W. Rambo
 East Barbarosia and Nob Hill No. 1 lodes, both unsurveyed,
 both owned by C. W. Rambo
 South Los Tiempos lode, unsurveyed, owned by W. A. Schwartz
 et al

West

Waneta No. 1 lode, unsurveyed owned by C. W. Rambo et al
Yellow Astor lode, unsurveyed owned by Elmer Johnson et al

INSTRUMENT

This survey was made with a C. L. Berger & Sons No. 1c Mountain Transit. The courses were deflected from the true meridian as determined for Survey No. 3153. Distances were measured with 100 and 300 ft. steel tapes. Magnetic variation 12° 30' East at all corners.

REPORT

The N W Cor. of Sec. 30, T 23 S, R 24 E, G & S R B & M is a limestone rock in place 5½ x 11 x 5 ins. above ground, chiseled 11 on south face and 1111 on north face.

Ralph L. Motz
U. S. Mineral Surveyor.

Dated at Bisbee, Arizona.
January 22, 1920.

FINAL OATHS FOR SURVEYS.

LIST OF NAMES.

A list of the names of the individuals employed by Ralph L. Motz
 United States Mineral Surveyor, to assist in running, measuring, and marking the lines, corners, and
 boundaries described in the foregoing field notes of the survey of the mining claim of W. A. Schwartz, I. Jacobson and Julia Wartenberg
 known as the Tornado lode
 and showing the respective capacities in which they acted.

J. A. Mitchell, Chainman.
 _____, Chainman.
 _____, Axman.
 _____, Flagman.

FINAL OATHS OF ASSISTANTS.

We, I, J. A. Mitchell
~~and~~ _____, do solemnly swear that we assisted
Ralph L. Motz, United States Mineral Surveyor, in marking the corners and surveying
 the boundaries of the mining claim of W. A. Schwartz, I. Jacobson and Julia
Wartenberg
 known as the Tornado lode
 represented in the foregoing field notes as having been surveyed by said mineral surveyor and under his
 direction; and that said survey has been in all respects, to the best of our knowledge and belief, faithfully
 and correctly executed, and the corner and boundary monuments established according to law and the instruc-
 tions furnished by the United States Surveyor-General for Arizona.

J. A. Mitchell, Chainman.
 _____, Chainman.
 _____, Axman.
 _____, Flagman

Subscribed and sworn to by the above-named persons before me this 22 nd
 day of January, 19 20.

Charles R. Woods
 Notary Public in and for the County
 of Cochise, State of Arizona. 6-1043
 My commission expires May 23rd 1921

FINAL OATH OF U. S. MINERAL SURVEYOR.

I, Ralph L. Motz, U. S. Mineral Surveyor, do solemnly swear that, in pursuance of instructions received from the United States Surveyor General for Arizona, dated January 3rd, 1920, I have, in strict conformity to the laws of the United States, the official regulations and instructions thereunder, and the instructions of said Surveyor General, faithfully and correctly executed the survey of the Mining Claim of W. A. Schwartz, I. Jacobson and Julia Wartenberg, known as the Tornado lode, situate in Warren Mining District, Cochise County, Arizona, in Section 13 unapprop, Township No. 23 S., Range No. 23 E. G & S R B & M, and designated as Survey No. 3649, as represented in the foregoing field notes, which accurately show the boundaries of said mining claim as distinctly marked by monuments on the ground, and described in the attached copy of the location certificate, which was received by me from the Surveyor General with said instructions, and that all the corners of said survey have been established and perpetuated in strict accordance with the law, official regulations and instructions thereunder; and I do further solemnly swear that the foregoing are the true and original field notes of said survey and my report therein, and that the labor expended and improvements made upon said mining claim by claimant or their grantors are as therein fully stated, and that the character, extent, location, and itemized value thereof are specified therein with particularity and full detail, and that no portion of said labor or improvements so credited to this claim has been included in the estimate of expenditures upon any other claim.

Ralph L. Motz
U. S. Mineral Surveyor.

Subscribed and sworn to by the said Ralph L. Motz
U. S. Mineral Surveyor, before me Charles R. Woods, Notary Public
this 22 nd
day of January, 1920

Charles R. Woods
Notary Public, in and for the County of Cochise, State of Arizona.
My commission expires May 23rd, 1921.

U. S. SURVEYOR-GENERAL'S FINAL CERTIFICATE ON FIELD NOTES.

Department of the Interior,

OFFICE OF U. S. SURVEYOR-GENERAL,

Phoenix, Arizona,

April 15, 1920.

I, U. S. Surveyor-General for Arizona,

do hereby certify that the foregoing transcript of the Field Notes, return and approval of the survey of the mining claim of W. A. Schwartz, I. Jacobson and Julia Wartenberg.

known as the TORNADO Lode.

situate in Warren

Mining District, Cochise County, Arizona.

in Section 13 unapproved, Township No. 23 S., Range No. 23 E., G. & S. R. B. & M

designated as Survey No. 3649, has been correctly copied from the originals on file in

this office; that said Field Notes furnish such an accurate description of said mining claim as will, if incorporated into a patent, serve fully to identify the premises, and that such reference is made therein to natural objects or permanent monuments as will perpetuate and fix the locus thereof.

~~And I further certify that five hundred dollars' worth of labor has been expended or improvements made upon said mining claim by claimant or their grantors, and that said improvements consist of~~

~~and that no portion of said labor or improvements has been included in the estimate of expenditures upon any other claim.~~

I further certify that the plat thereof, filed in the U. S. Land Office at Phoenix, Arizona

is correct and in conformity with the foregoing Field Notes.

Frank P. Trott,

United States Surveyor-General for Arizona.

SURVEYOR GENERAL'S CERTIFICATE OF APPROVAL OF FIELD NOTES AND SURVEY OF MINING CLAIM

DEPARTMENT OF THE INTERIOR OFFICE OF U. S. SURVEYOR GENERAL

Phoenix, Arizona,

April 15, 1920

I, U. S. Surveyor General for Arizona

do hereby certify that the foregoing and hereto attached Field Notes and Return of the Survey of the Mining Claim of W. A. Schwartz, I. Jacobson and Julia Wartenberg.

known as the

TORNADO lode

situate in Warren mining district,

Cochise County, Arizona

in Section 13 Unapproved Township No. 23 S., Range No 23 E., G. & S R.B & M., designated as Survey No. 3649

executed by Ralph I. Motz, U. S. Mineral

Surveyor, January 15-16, 1920, under my instructions dated

January 3, 1920, have been critically examined and the necessary cor-

rections and explanations made, and the said Field Notes and Return, and the Survey they describe,

are hereby approved. The certified copy of the location certificate filed by the applicant for survey is

on file in this office and a true copy of said certified copy of said location certificate is included and made

a part of the transcript of the field notes.

[Handwritten signature]

U. S. Surveyor General for Arizona.

(4-691.)

Certificate of U. S. Surveyor General

AS TO

EXPENDITURES REPORTED AFTER RETURN OF SURVEY OF MINING CLAIM.

I, U. S. Surveyor General for District of Arizona,
do hereby certify that Five Hundred Dollars' worth of labor has been expended or
improvements made by claimant^s or their grantors, upon the mining claim of
W. A. Schwartz, I. Jacobson and Julia Wartenberg

known as the TORNADO Lode,
situate in Warren mining district,
Cochise County, Arizona
in Section 13, Township No. 23 S, Range No. 23 E;
that said improvements consist of 4 cuts and 2 tunnels, total value
\$575.

....., and that no portion of said labor or improvements has been
included in the estimate of expenditures upon any other claim. A copy of the report of
Ralph L. Motz, U. S. ~~Deputy~~ Mineral Surveyor, dated
April 20, 1921, is hereto attached.



U. S. Surveyor General for Arizona.

Office of U. S. Surveyor General,
Phoenix, Arizona,

August 11, 1921 .

MINERAL SURVEY NO. 3649

TORNADO

SUPPLEMENTAL REPORT OF IMPROVEMENTS

I hereby certify that the value of the labor performed and improvements made upon this claim by the claimants or their grantors is not less than five hundred dollars and that said improvements in addition to those which were reported at time of survey consist of:-

- No. 2 Open cut 6 x 10 x 10 ft. long brg N 80° W mouth of which brs from Cor. No. 3 S 84° 11' E 741.0 ft. Value - - - - - \$ 75.00
- No. 3 Open cut 11 x 14 x 12 ft. long brg West mouth of which brs from Cor. No. 3 S 72° 35' E 736.0 ft. Value - - - - - 200.00
- No. 4 Tunnel 4 x 6 x 16 ft. long brg S 75° E mouth of which brs from Cor. No. 2 N 54° 05' E 387.0 ft. Value - - - - - 150.00
- No. 5 Open cut 5 x 12 x 8 ft. long with tunnel 5 x 6 x 7 ft. long both brg S 75° E mouth of open cut brs from Cor. No. 2 N 57° 10' E 350.0 ft. Value - - - - - 100.00

Ralph L. Motz

U. S. Mineral Surveyor

Dated at
Bisbee, Arizona.
April 20, 1921.

I, Ralph L. Motz, U. S. Mineral Surveyor for the District of Arizona, first being duly sworn, depose and say that the above supplemental report is true and correct and the improvements mentioned therein were made and completed prior to the date of the expiration of the period of the publication of the notice of application for patent to the lands embraced in Mineral Survey No. 3649.

Ralph L. Motz

U. S. Mineral Surveyor.

State of Arizona)
) ss.
County of Cochise)

Subscribed and sworn to by said Ralph L. Motz, U. S. Mineral Surveyor, before me, Charles R. Woods, a Notary Public, in and for the County of Cochise, State of Arizona, this 20th day of April, 1921.

Charles R. Woods

Notary Public.

My commission expires May 23, 1921.