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MINERAL SURVEY No. 2794

LOT No.

ARIZONA Land District.

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Alfred S. Donau, Willard Biggs, R.W. Warren, Albert Steinfeld

and T. C. Donau

KNOWN AS THE

NORTHERN STAR

SILVER BELL Mining District,

P I M A County, ARIZONA

Section Approx. , Township 12 S. , Range 8 E. (Unsurveyed)

Surveyed under instructions dated March 21 , 19 10

by Edgar C. Dietrich U. S. Mineral Surveyor.

Claim located see location notices , 1908

Survey commenced April 1 , 1910

Survey completed April 2 , 1910

6-822

Address of Attorney:

William G. Power, Tucson, Arizona.

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INSTRUMENTAL

Feet	<p align="center">NORTHERN STAR LODGE. SURVEY NO. 2794</p>
	<p>Beginning at Cor.No.1, identical with the location, which is a mound of stone 3 ft. base, 2½ ft. high; Also Cor. No. 1 Jesuit lode, Sur. No. 2795.</p> <p>Set a pine post 4x4 ins. 4 ft. long, set 18 ins. in the ground, surrounded with a mound of stone, scribed N S-1-2794 on N.E. face; whence</p> <p>U.S.L.M. No. 1204, brs. S. 77° 6' W., 1453 ft. dist.</p> <p>A cross (X) 1-2794 B R chiseled on a porphyry ledge 6x6x4 ft. above ground; brs. N. 89° E., 19.2 ft. dist.</p> <p>A cross (X) and 1-2794 B R chiseled on a porphyry ledge 12x4x4 ft. above ground; brs. S. 9° W., 55.1 ft. dist.</p>
	<p>Thence N. 75° 06' E. Var. 14° 02' E.</p>
300.	<p>To South End Center, identical with the location, which is a pine post 4 ins. sq. 4 ft. long, set 18 ins. in the ground, and surrounded with a mound of stone, scribed S E C- N S-2794 on N. face.</p>
600.	<p>To Cor. No. 2, identical with the location, which is a mound of stone 3 ft. base, 2½ ft. high; Also Cor. No. 2, Jesuit lode, Sur. No. 2795.</p> <p>Set a pine post 4 ins. sq., 4 ft. long, set 18 ins. in the ground, surrounded with a mound of stone, scribed N S-2-2794 on N.W. face; whence</p> <p>A cross (X) and 2-2794 B R chiseled on a granite boulder, 3x3x1½ ft. above ground, brs. S. 67° 30' E., 12.75 ft. dist.</p> <p>A cross (X) and 2-2794 B R chiseled on a granite boulder 2x2x2 ft. above ground, brs. N. 33° 30' W., 15.6 ft. dist.</p>
	<p>Thence N. 9° 17' W. Var. 14° 02' E.</p>
170.	Center of Arizona Southern Railway track, brs. E and W.
475.	Center of Arizona Southern Railway track, brs. E and W.
570.	Center of Arizona Southern Railway track, brs. E and W.
980.	Wash, 50 ft. wide, course W.
1080.	Wagon road, brs. N.W. and S.E.
1500.	To Cor. No. 3.
	<p>Set a pine post 4 ins. sq., 4 ft. long, set 18 ins. in the ground, surrounded with a mound of stone, scribed N S-3-2794; on S.W. face; whence</p> <p>Original location monument, which is a mound of stone, 3 ft. base 3 ft. high, brs. N. 9° 17' W., 175 ft. dist..</p> <p>An Ironwood 6 ins. diam., blazed and scribed B T-3-2794 brs. N. 53° 15' W., 13 ft. dist.</p> <p>A pine post 4 ins. sq., set firmly in the ground, surrounded with a mound of stone, scribed 2790-S S-C R brs. S. 50° 20' E., 67.5 ft. dist. This marks the S.S. Center of the Rex lode Sur. No. 2790.</p>
	<p>Thence S. 75° 06' W. Var. 14° 02' E.</p>
264.	Road, brs. N. and S.
300.	To point from which original N. end Center, which is a mound of stone 3 ft. base 3 ft. high, brs. N. 9° 17' W., 175 ft.
	<p>Set a pine post 4 ins. sq., 4 ft. long, set 18 ins. in the ground, surrounded with a mound of stone, scribed N E C-N S-2794 on S. face.</p>
313.	Road, brs. N. and S.
600.	To Cor. No. 4.
	<p>Set a pine post 4 ins. sq., 4 ft. long, set 18 ins. in the ground, surrounded with a mound of stone, scribed N S-4-2794 on S.E. face; whence</p> <p>Original location monument, which is a mound of stone 3 ft. base 3 ft. high, brs. N. 9° 17' W., 175 ft. dist.</p> <p>An Ironwood 8 ins. diam., blazed and scribed B T-4-2794, brs. N. 19° 15' W., 13.7 ft. dist.</p> <p>A cross (X) on a mountain, brs. S. 43° 45' E.</p>

Feet

- 33. Thence S. 9° 17' E.
- 180. Var. 14° 02' E.
- 385. Road, brs. N.W. and S.E.
- 710. Center of Arizona Southern Railway track, brs. N.W. and S.E.
- 780. Wash, 50 ft. wide, course W.
- 815. Center of Arizona Southern Railway track, brs. N.E. and S.W.
- 915. Wash, 5 ft. wide, course N.W.
- 1205. Wagon road, brs. N.E. and S.W.
- 1380. Center of Arizona Southern Railway track, brs. N.E. and S.W.
- 1500. Center of Arizona Southern Railway track, brs. N.E. and S.W.
- To Cor. No. 1, the place of beginning.

AREA.

Area of Northern Star Lode-----20.562 Acres

LOCATION.

This claim is located in Silver Bell Mining District, Pima County, Arizona, and within Township 12 S., R. 8 E., Gila and Salt River Base and Meridian, unsurveyed.

ADJOINING CLAIMS.

This claim is bounded on the North by a claim, unsurveyed, name and owners unknown; on the West by the Heaney and Massachusetts Lodes, unsurveyed, owners unknown; on the South by the Jesuit Lode, Survey No. 2795, owners, Alfred S. Donau, Clarence C. Wolf, Albert Steinfeld & T. C. Donau; on the East by the Last Chance Lode, unsurveyed, owners unknown.

PRESUMED COURSE OF VEIN.

The presumed course of the vein of this lode is from the South End Center to the North End Center, N. 9° 17' W., 1500 ft.

EXPENDITURE OF FIVE HUNDRED DOLLARS.

I certify that the value of the labor and improvements placed thereon by the claimants, or their grantors, is not less than Five Hundred Dollars, and that said improvements consist of:

From North End Center:

No. 1 Discovery shaft No. 1, 4x6 ft. 5 ft. deep, brs. S. 9° 17' E. 500 ft. dist. Value \$ 10.00

From Cor. No. 4:

No. 2 Open cut No. 2, 20 ft. long, 4 ft. wide, 7 ft. deep, course, N. E., brs. S. 55° E., 438 ft. dist. Value \$200.00

No. 3 Open Cut (and Tunnel No. 3, 4x5 ft., 60 ft. long, course S. 22° 30' W., brs. S. 46° E., 620 ft. dist. Value \$250.00

From Cor. No. 1:

No. 4 Open Cut No. 4, 28 ft. long, 5 ft. wide, average depth 4 ft., course N. 48° E., brs. N. 8° E., 742 ft. dist. Value \$150.00

No. 5 Open Cut No. 5, 20x19 ft., 4 ft. deep, brs. N. 9° E., 730 ft. dist. Value \$150.00

No. 6 Open cut No. 6, 20x 6 ft., average depth 5 ft., course N. 69° E., brs. N. 11° E., 760 ft. dist. Value \$150.00

INSTRUMENT.

This survey was made with a Young & Son's Light Mountain transit, with a solar attachment. The courses were deflected from the true meridian as determined by direct

solar observations, which were checked on the lines of the Rex Lode, Survey No. 2790, which agreed with those determined by the solar observations.

The distances were measured with a 100-foot steel tape.

NOTE: No corners found of old adjoining claims, except those mentioned.

Edgar C. Dietrich

U. S. Deputy Mineral Surveyor.

FINAL OATHS FOR SURVEYS.

LIST OF NAMES.

A list of the names of the individuals employed by Edgar C. Dietrich
 United States ~~Deputy~~ 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 Alfred S. Donau
Willard Biggs, R.W. Warren, Albert Steinfeld and T. C. Donau,
 known as the NORTHERN STAR
 and showing the respective capacities in which they acted.

- Budd Dozier , *Chainman.*
- Henry Miller , *Chainman.*
- Manuel Salazar , *Arman.*
- Manuel Salazar , *Flagman.*

FINAL OATHS OF ASSISTANTS.

We, Budd Dozier, Henry Miller
 and Manuel Salazar , do solemnly swear that we assisted Edgar C.
Dietrich , United States ~~Deputy~~ Mineral Surveyor, in marking the corners and surveying
 the boundaries of the mining claim of Alfred S. Donau, Willard Biggs, R.W. Warren,
Albert Steinfeld and T. C. Donau,
 known as the NORTHERN STAR
 represented in the foregoing field notes as having been surveyed by said ~~deputy~~ 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 instructions
 furnished by the United States Surveyor-General for Arizona

- Budd Dozier , *Chainman.*
- Henry Miller , *Chainman.*
- Manuel Salazar , *Arman.*
- Manuel Salazar , *Flagman.*

Subscribed and sworn to by the above-named persons before me this 10th
 day of April, 1910 , 190

H. G. Power
 Notary Public, Pima County, Arizona Territory,
 My Commission Expires May 10th, 1912.

FINAL OATH OF U. S. ~~DEPUTY~~ MINERAL SURVEYOR

I, Edgar C. Dietrich, U. S. Deputy Mineral Surveyor, do solemnly swear that, in pursuance of instructions received from the United States Surveyor General for Arizona, dated March 21, 1910, 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 Alfred S. Donau, Willard Biggs, R.W. Warren, Albert Steinfeld and T. C. Donau, known as the NORTHERN STAR, situate in Silver Bell Mining District, Pima County, Arizona, in Section _____, Township No. 12 S., Range No. 8 E. (Unsurveyed), and designated as Survey No. 2794, 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 claimants 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.

Edgar C. Dietrich
 U. S. Deputy Mineral Surveyor.

Subscribed and sworn to by the said Edgar C. Dietrich
 U. S. Deputy Mineral Surveyor, before me a Notary Public
 this 10th
 day of April, 1910,

H. G. Power
 Notary Public, Pima County, Arizona Territory.
 My Commission Expires May 16th, 1912.

Notice of Mining Location

quartz
LODE CLAIM

TO ALL WHOM IT MAY CONCERN:

This Mining Claim, the name of which is the *Northern Star* Mining Claim, situate on lands belonging to the United States of America, and in which there are valuable mineral deposits, was entered upon and located for the purposes of exploration and purchase by

Wm. Klug, D. W. Carrigar, & W. Biggs

[Locator must insert either "a citizen of the United States," or "who has declared his intention to become a citizen of the United States" by the undersigned, on the *15* day of *June* 19*03*.

The length of this claim is *1500* feet, and *we* claim *1000* feet

in a *Southerly* direction and *500* feet in a *Northerly* direction from

the center of the discovery shaft, at which this notice is posted, lengthwise of the claim, together with *300* feet in width of the surface grounds, on each side of the

center of said claim. The general course of the lode deposit and premises is from the *Northerly* to the *Southerly*

The claim is situated and located in the *Silver Bell* Mining District, in *Cima* County, in the Territory of Arizona, about *1/2 mile*

in a *Southeast* direction from *Atlas Smelter* and about *1/2 mile north* of old *Silver Bell*.

The surface boundaries of the claim are marked upon the ground as follows: Beginning at monument of stone and post at a point in a *Southerly* direction *1000* feet from the discovery shaft (at which this notice is posted) being in the center of the *Southerly* end line of said claim; thence *300* feet to a *monument* being the *Southeast* corner of said claim; thence *1500* feet to a *monument* being at the *Northeast* corner of said claim; thence *300* feet to a *monument* being the center of the *Northerly* end of said claim thence *300* feet to a *monument* being at the *North West* corner of said claim; thence *1500* feet to a *monument* at the *S. West* corner of said claim; thence *300* feet to the place of beginning.

All done under the provisions of Chapter Six; of Title XXXII, of the Revised Statutes of the United States, and of an Act of the General Assembly of Arizona, entitled "An Act to Revise and Codify the Laws of the Territory of Arizona," approved March 16, 1901.

Dated and posted on the ground this *15* day of *June* 19*03*.

Wm. Klug
D. W. Carrigar
W. Biggs

TERRITORY OF ARIZONA, }
County of Pima, } ss.

I, Ben Cheney County Recorder in and

for the County of Pima, do hereby certify that the above and foregoing is a full, true and correct copy
of the Northern Star Mining Claims, situated in the
Silver Bell Mining Dist. in Pima Co. Arizona Territory,
located on the 15 day of June, 1903.

as appears of record now in my office in Book Record of Mines Pages 43 et seq.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my

official seal, at my office in Tucson, this 17 day

of March A. D. 1910.

Ben Cheney
County Recorder of Pima County, Arizona.

by L. M. Shihell, deputy.

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

Department of the Interior,

OFFICE OF U. S. SURVEYOR-GENERAL,

Phoenix, Arizona,

October 31, 1910, ~~1908~~

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 Alfred S. Donau, Willard Biggs, R.W. Warren, Albert Steinfeld and T. C. Donau,

known as the NORTHERN STAR

situate in Silver Bell

Mining District, Pima County, Arizona.

in Section , Township No. 12 S., Range No 8 E. (Unsurveyed), and

designated as Survey No. 2794., 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 claimants or their grantors, and that said improvements consist of five cuts, one tunnel and one shaft, total value, \$910.00

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 S. Ingalls.

United States Surveyor-General for Arizona.

4-687.

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,

October 31, 1910, ~~190x~~

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 Alfred S. Donau, Willard Biggs, R. W. Warren, Albert Steinfeld and T. C. Donau.

....., known as the

NORTHERN STAR.

situate in Silver Bell Mining District,

Pima County, Arizona

in Section, Township No. 12 S., Range No. 8 E. (Unsurveyed)

....., designated as Survey No. 2794.

executed by Edgar C. Dietrich, U. S. Deputy Mineral

Surveyor, April 1 - 2, 1900, under my instructions dated

March 21, 1900, 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. A true copy of the copy of the location certificate filed by the applicant for

survey is included in the field notes.

Frank S. Lyall

U. S. Surveyor-General for Arizona.