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MAR 3-1904

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(4-683.)

Mineral Survey No. 1889

Lot No.

Gila

Land District.

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

The Turquoise Copper
Mining & Smelting Co

KNOWN AS THE

Santiago and Ann

Turquoise Mining District,

Cochise County, Arizona

Section , Township 19S, Range 25E
unsurveyed

Surveyed under instructions dated Dec 26, 1903

by John A. Rockefeller
U. S. Deputy Mineral Surveyor.

Claim located See notices, 1

Survey commenced Jan 12, 1904

Survey completed Jan 13, 1904

Address of claimant's Attorney
Charles Bowman
Tombstone
Arizona

PRELIMINARY OATHS OF ASSISTANTS IN SURVEY OF MINING CLAIM.

WE, Ernest L. Robinson and Robert H. Artell,
do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain upon even and uneven ground and plumb the tally-pins, either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true length of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the Mining Claim of The Turquoise Copper Mining
and Smelting Co
known as the Santiago and Ann
situate in Turquoise mining district
Cochise County, Arizona,
in Section _____, Township No. 19 S, Range No. 25 E unsurveyed

Ernest L. Robinson, Chairman.
Robert H. Artell, Chairman.

Subscribed and sworn to by the above named persons before me this
12th day of Jan, 1907

John D. Packhouse
Notary Public

MY COMMISSION EXPIRES MARCH 14, 1907.

I, _____, do solemnly swear that I will well and truly perform the duties of axman, in the establishment of corners and other duties, according to instructions given me and to the best of my skill and ability, in the survey of the Mining Claim of _____

known as the _____
more fully described in the preceding affidavit.

_____, Axman.

Subscribed and sworn to by the said _____
_____ before me this _____ day of _____, 190____

I, _____, do solemnly swear that I will well and truly perform the duties of flagman, in the establishment of corners and other duties, according to instructions given me and to the best of my skill and ability, in the survey of the Mining Claim of _____

known as the _____
more fully described in the preceding affidavit.

_____, Flagman.

Subscribed and sworn to by the said _____
_____ before me this _____ day of _____, 190____

Santiago Lode.

Beginning at Cor. No. 1, the N.E. Cor. of the claim, on the West side line of the Copper Belle Lode, (unsurveyed)

A pine post 4 ins. sq. 4 ft. long set one foot in the ground to hard pan, in mound of stone, scribed N.E.C.- S. 1-1889.

Whence Var. 12°12' E.

- (1) U. S. Mineral Monument No.1 of this District, bears N. 3°36' E. 3580.3 ft.
- (2) Location corner, bears N. 64°36' E. 2.8 ft.
- (3) Black Diamond Peak bears N. 39°00' W. about 10 miles.
- (4) Sugar Loaf Peak, bears S. 24°02' E. about 2 miles.

Thence S. 44°22' E.

Within boundary of the Copper Belle Lode.

543.70

To Cor. No. 2, identical with location, and with N.W. Cor. of the Elizabeth lode, (unsurveyed)

A pine post 4 ins. sq. 3.5 ft. above ground, in mound of stone, scribed N.W.C.- E. to which I add 2-1889.

Whence Var. 12°30' E.

- (1) S.W. Cor. Copper Belle Lode, bears S. 57°40' W. 15.0 ft.
- (2) The N.W. Cor. of store building, also Post Office, bears S. 14°30' E. 368.0 ft.
- (3) The center of a shaft 10 ft. deep bears S. 58°00' W. 240. ft.
- (4) The center of a shaft 6 ft. deep bears S. 80°45' W. 105 ft.

No rock or tree bearings available.

Thence S. 31°32' E.

678.00

Road, bears N.E. & S.W.

713.00

Post, scribed W.C. S-E.

745.00

Road, bears E.N.E. & W.S.W.

834.90

To Cor. No.3, identical with location, and with N.E. Cor. of the Oak Grove Lode, (unsurveyed).

A juniper post squared 4 X 4 ins. 3 ft. above ground, in mound of stone, scribed N.E.C.-OG. to which I add S.E.C.- S. 3-1889.

Whence Var. 12°30'E.

Santiago Lode,- Cont'd.

- Feet. (1) A cross (X) and B.R. 3-1889, chiseled on limestone bedrock at three different points, bear as follows:-
- (a) N. 9°31' E. 21.6 ft.
- (b) N. 60°37' E. 20.4 ft.
- (c) N. 18°00' W. 18.2 Ft.
- Thence S. 64°36' W.
- 71.00 Road, bears N.& S.
- 117.70 South Center End, identical with location,
A pine post 4 ins. sq. 4.5 ft. long set 1.5 ft. in the ground,
in mound of stone, scribed S.E.C.- S. 1889.
- 236.50 To Cor. No. 4.
A pine post 4 ins. sq. 4.5 ft. long set 18 ins. in the ground,
in mound of stone, scribed S.W.C.- S. 4-1889.
- Whence Var. 12°20' E.
- (1) Corner of location, bears S. 30°53' E. 1.0 ft.
- (2) North Center End of the Oak Grove Lode, bears S. 64°36' W.
65.0 ft.
- No rock or tree hearings available.
- Thence N. 30°53' W.
- 116.00 Road, bears N.E.& S.W.
- 298.00 Road, bears N.& S.
- 490.00 Road, bears E.& W.
- 544.00 Road, bears E.& W.
- 1350.44 To Cor. No.5, identical with location,
A pine post 4 ins. sq. 4.5 ft. long set 1 ft. in the ground to
hard pan, in mound of stone, scribed N.W.C.- S. 5-1889.
- Whence Var. 12°15' E.
- (1) A cross (X) and B.R. 5-1889, chiseled on limestone bedrock at two different points bear as follows:-
- (a) S. 74°35' W. 23.0 ft.
- (b) S. 34°57' E. 96.5 ft.

SURVEY NO. 1889.
Santiago Lode,- Cont'd.

Met.

Thence N. 64°36' E.

51.50

North Center End, identical with location,
A pine post 4.5 ft. long set one foot in the ground to hard pan,
in mound of stone, scribed N.C.E.- S. 1889.

99.70

To Cor. No. 1, the place of beginning.

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Ann Lode.

Beginning at Cor. No. 1, identical with Cor. No.5
Santiago lode, of this survey and heretofore described. Scribed
in addition N.E.C.- A. 1-1889.

Whence Var. 12°15' E.

U. S. Mineral Monument No.1 of this District, bears
N. 4°58' E. 3629.86 ft.

Thence S. 30°53' E.

Along West side line of the Santiago lode of this survey.

1350.44

To Cor. No.2, identical with Cor. No.4 of the San-
tiago lode, of this survey and heretofore described. Scribed

in addition S.E.C.- A. 2-1889. *on north End line Oak Grove
Lode resurveyed whence NW Cor brs S 64°36' W 366.5 ft.*

Whence Var. 12°20' E.

Corner of the location, bears S. 30°53' E. 1 ft.

Thence S. 60°14' W.

Within the boundary of the Oak Grove Lode.

120.00

Road, bears N.& S.

279.00

Road, bears N.W.& S.E.

300.00

To Cor. No.3, identical with location.

A pine post 4 ins. sq. 3 ft. above ground, in mound of stone,
Scribed S.C.E.- A. to which I add 3-1889.

Whence Var. 12°15' E.

(1) College Peak bears S. 51°58' E.

(2) A lone tree on a ridge about one half mile distant, bears
S. 36°12' W.

(3) Black Diamond Peak, bears W. 28°34' W.

No rock or tree bearings available.

Feet.

66.14
68.14

Thence S. 71°09' W.

Intersect the West side of the Oak Grove Lode, at
S. 31°32' E. 15.2 ft. from the N.W. Corner.

117.00 Gulch 12 ft. wide, course South.

306.30 To Cor. No. 4, identical with location,
A pine post 4 ins. sq. 3.5 ft. high, set 6 ins. in the ground to
hard pan, in mound of stone, scribed S.W.C.- A. 4-1889.

Whence Var. 12°15' E.

A post at N. E. corner of a fence bears S. 65°06' W. 26.4
ft. No other bearings available.

Thence N. 30°33' W.

192.00 Road, bears E.N.E. & W.S.W.

682.00 45.5ft. to the right S.W. corner of the office building.

710.00 61 ft. left a shaft .

719.00 Road, bears W.N.W. & E.S.E.

856.50 58 ft. right N.W. coner of the stable.

1406.70 To Cor. No. 5, identical with location.
A pine post 4 ins. sq. 4.5 ft. long set one foot in the ground
to hard pan, in mound of stone, scribed N.W.C.- A. 5-1889.

Whence Var. 12°10' E.

(1) A cross (X) and B.R. 5-1889, chiseled on a conglomerate
rock 18 X 14 X 4 ins. bears S. 31°35' E. 40.4 ft.

(2) The center of a shaft 5 ft. sq. 6 ft. deep, on the Amelia
lode, (unsurveyed) bears N. 27°25' W. 40.5 ft.

(3) College Peak bears S. 51°52' E.

Thence N. ~~30°~~^{N 71°09' E} E.

229.00 Corner No. 4 Boss Lode, (unsurveyed)

305.90 North Center End, identical with location,
A pine post 4 ins. sq. 4.5 ft. long set 10 ins. in the ground to
hard pan, in mound of stone, scribed N.C.E.- A. 1889.

319.00 Road, bears N. & S.

430.00 Wash, 5 ft. wide, Course South.

498.00 Road, bears N. & S.

SURVEY NO. 1889.

Ann Lode - Continued.

Feet.
528.00
604.60

Cor. No. 3 Boss Lode.
To Cor. No. 1, the place of beginning.

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AREA. Acres.

Santiago Lode.....	6.345
Less area in conflict with Copper Belle lode.....	<u>.092</u>
Net area of Santiago Lode.....	6.253
Ann Lode.....	<u>19.053</u>
Less area in conflict with Oak Grove lode.....	<u>.107</u>
Net area of Ann Lode.....	<u>18.946</u>
Total area.....	<u>25.199</u>

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LOCATION.

This claim is located in the Turquoise Mining District, in the Southwestern portion of T 19 S. R 25 E. (unsurveyed)

The ground included is undulating and covered with more or less soil, rendering the courses of the lodes difficult to trace on the surface.

On the Santiago the lode is presumed to extend ^{the vein} ~~parallel to~~ ^{from E.C. to E.C.} the course of the location Northerly and Southerly from the ~~discovery~~ ^{discovery} the length of the claim. ~~N. 33° 43' W. 1358.5 ft.~~

On the Ann, the lode ^{the vein} ~~extends N. 30° 32' W. and S. 30° 32' E.~~ ^{is presumed to extend from EC to EC.} ~~From discovery, presumably the length of the claim.~~ ^{N 30° 34' W 1406.8 ft.}

The adjoining claims are:-

On the North, claim known as the Boss, but located by Herman Durand as the Hurricane.

On the East and South, the Copper Belle, and Elizabeth lodes, the Oak Grove and Katherine lodes (unsurveyed). The Copper Belle Mining Co. Claimants.

On the West, ground claimed by Thomas Cowen.

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I hereby certify that the value of labor and improvements on this claim, placed thereon by the claimants or their grantors is not less than \$1000.00, and that said improvements consist of:-

On the Santiago Lode.

(1) Discovery Shaft which bears from Cor. No. 2, S. 16°46' E. 288.5 ft. Shaft 6 X 4 ft. 87 ft. to water, said to be 106 ft. to bottom. Value at least..... \$ 900.00

(2) A shaft which bears from Cor. No.2, S. 80°45' W. 105 ft. Shaft 6 X 5 ft. 6 ft. deep. Value..... \$ 30.00

On the Ann Lode.

(1) Discovery Shaft which bears from N. Center End S. 26°06' E. 95.5 ft. Shaft 6 X 4 ft. timbered, Depth from sill 43 ft. from surface of ground 40 ft. Value..... \$ 480.00

(2) A shaft which bears from Cor. No.2 of the Santiago Lode, S. 58°00' W. 240 ft. Shaft 6 X 4 ft. 10 ft. deep. Value.....\$ 100.00

Other Improvements.

On the Santiago Lode.

(1) A store and Post Office building which bears from Cor.No.2, S. 14°30' E. 368. ft. (to the N.W.Cor. of said building) Front S. 8°00' W. 37.5 ft. depth 55 ft. 18 ft. wide at the rear. Value.....\$ 1500.00

Owned by claimants.

On the Ann Lode.

(1) An office building and stable as described in topography of line 4-5 Value.....\$ 1500.00

Owned by the Claimants.

(2) A cabin the N.W.Cor. of which bears from Cor. No.5, S. 55°45' E. 170. ft. Claimed by Wm. Cummings.

Instrument.

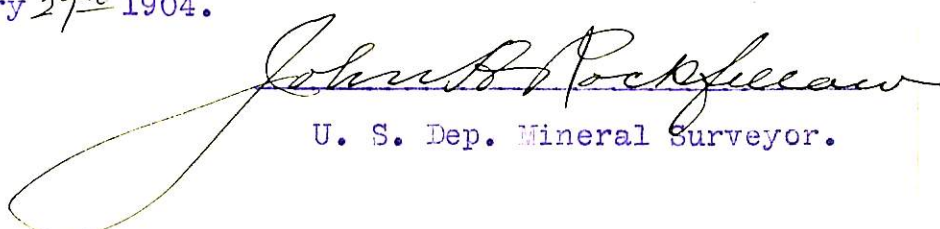
This survey was made with a Young & Sons Mountain Transit, No. 6855, provided with a Smith Solar Attachment.

The courses were deflected from the true meridian as determined by direct solar observations.

The distances were measured with 100 ft. and 500. ft. steel tapes.

Tombstone, Ariz.

February 2^{9th} 1904.

A large, flowing handwritten signature in dark ink, reading "John B. Rockwell". The signature starts with a large loop on the left and ends with a long, sweeping tail that loops back under the main body of the signature.

U. S. Dep. Mineral Surveyor.

FINAL OATHS FOR SURVEYS.

LIST OF NAMES.

A list of the names of the individuals employed by John B. Rockefeller
 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 The Turquoise Copper Mining & Smelting Co.
 known as the Santiago and Ariz
 and showing the respective capacities in which they acted.

Ernest L. Robinson, Chairman.

Robert H. Artell, Chairman.

....., Axman.

....., Flagman.

FINAL OATHS OF ASSISTANTS.

We, Ernest L. Robinson
 and Robert H. Artell, do solemnly swear that we assisted John B. Rockefeller
Rockefeller, United States Deputy Mineral Surveyor, in marking the corners and
 surveying the boundaries of the mining claim of The Turquoise
Copper Mining & Smelting Co.
 known as the Santiago and Ariz, 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.

Ernest L. Robinson, Chairman.

Robert H. Artell, Chairman.

....., Axman .

....., Flagman.

Subscribed and sworn to by the above-named persons before me

this 23 day of Jan, 1904

John B. Rockefeller
 Notary Public

(4-686.)

FINAL OATH OF U. S. DEPUTY MINERAL SURVEYOR

I, John A. Rockfellow, U. S. Deputy Mineral Surveyor, do solemnly swear that, in pursuance of instructions received from the United States Surveyor General for Arizona, dated Dec 26 1903, 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 The Turquoise Copper Mining & Smelting Co, known as the San Diego Red Hill, situate in Turquoise Mining District, Cochise County, Arizona, in Section , Township No. 198, Range No. R 5 E unsurveyed and designated as Survey No. 1889, 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 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.

John A. Rockfellow
U. S. Deputy Mineral Surveyor.

Subscribed and sworn to by the said John A. Rockfellow
U. S. Deputy Mineral Surveyor, before me a Notary Public in and for Cochise County Arizona this 1st
day of March 1904

May Commission expires April 15 1905
Frank W. Godbody
Notary Public

Affidavit of Five Hundred Dollars Improvements.

We, William Shaw, and William A Cummings

of lawful age, being first duly sworn according to law, depose and say: That we

are acquainted with the Santiagos and Aru mining claim,

situate in Tuquoise Mining district, Cochise County,

Arizona Territory, for which The Tuquoise Copper

Mining Smelting Co.

has made application for survey prior to application for patent under the provisions

of the Act of Congress, approved May 10, 1872; and that the labor done and improve-

ments made thereon by the applicant and its grantor exceed One thousand ~~Five Hundred~~

Dollars in value, and further that we are not personally interested in said mine.

William Shaw

William A Cummings

TERRITORY OF ARIZONA,

County of Cochise } ss:

Sworn to and subscribed before me, this 22

day of January, 1904



John B. Rockefeller
Notary Public

MY COMMISSION EXPIRES MARCH 11, 1907.

POOR QUALITY

The following pages are scanned at the best possible quality setting. The original pages are of poor quality and this is the best possible reproduction.

W. A. ...

This ... claim, situated on lands belonging to the United States of America, and in which there are valuable mineral deposits, was entered upon and located for the purpose of exploration and purchase by Alexander ... on the 30th day of January 1898.

The limits of the claim is 1500 feet and ... claim 200 feet in a northerly direction ... a boundary direction from the center of the discovery shaft, ... length of the claim, ... of the surface ...

The general location of the lode deposit ... is from the ... to the ... Point. The claim is situated and located in the ... in the Territory of ... the ... direction from the ...

The surface boundaries of the claim are ... as follows: ... direction 200 feet ... (at ... notice is posted) ... the northerly end line of the claim; thence ... 300 feet to a monument of ... the ... West corner of said claim; thence ... 70 to a monument of stones at the center of the West ... side line of said claim; thence southerly 770 feet to a monument of stones ... at the South West corner of said claim; thence ... 300 feet to a monument of stones at the center of the South ... and of said claim; thence easterly 300 feet to a monument of stones ... at the South East corner of said claim; thence northerly 70 feet to a monument of stones being at the center of the ... side line of said claim; thence northerly 70 feet to a monument of stones at the North East corner of said claim; thence ... 300 feet to the place of ...

All done under the provisions of Chapter 3 of title 32 of the Revised Statutes of the United States, and of an act of the General Assembly of Arizona, entitled "An Act Creating a 'Trust', approved March 20th 1891.

Witness my hand and seal of the said Territory of Arizona, this 14th day of January, 1893.
Witness: J. W. Wrold. Noted for Alexander C. Gray.

Filed and recorded at the office of Alexander C. Gray No. 1197
A. C. Gray, Notary Public, Tucson, Arizona, Jan. 14, 1893.

RECORDARY OF ARIZONA,

Department of the Interior, Wash. D. C.

I, Frank Clark, County Recorder for the said Territory, do hereby certify that I have compared the foregoing copy with the original and the original of the said claim, filed and recorded in my office on the 13th day of January, 1893, 1893, 1893, 14, Record of Deeds, p. 100, and that the same is a true and correct copy of the original, and that I am duly sworn.

Witness my hand and seal of my office, this 14th day of Jan. 1893.

Frank Clark
County Recorder.

AMENDED NOTICE OF MINING LOCATION :

Lode Claim.

TO ALL WHOM IT MAY CONCERN:

This Mining Claim, the name of which is the SANTIAGO 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 purpose of exploration and purchase by Turquoise Copper Mining and Smelting Company, a corporation, on the 19th day of December 1903. .

The length of this claim is 1351 feet and we claim 816 feet in a Northwesterly direction and 535 feet in a Southeasterly 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 N. W. to the S. E.

The claim is situated and located in the Turquoise Mining District, in Cochise County, in the Territory of Arizona, between the ANN and the COPPER BELLE Mining Claims, and is bounded on the South by the Oak Grove Claim; and is about 2-3 of a mile southerly from U. S. Mineral Monument.

The surface boundaries of the claim are marked upon the ground as follows: Beginning at a monument on the north end line of the Oak Grove Claim, at a point in a Southeasterly direction 535 feet from the discovery shaft (at which this notice is posted), being in the center of the South end line of said claim; thence Westerly along the end line of Oak Grove Claim 125 feet to a monument, being the S. W. corner of said claim; thence Northwesterly along the E. side line of Ann claim 1351 feet to a monument, being at the N. W. corner of said claim, identical with the N. E. corner of Ann claim; thence Easterly 60 feet to a monument at the center of the North end of said claim; thence in same direction 60 feet

to a monument, being at the N. E. corner of said claim; thence Southeasterly 550 feet to a monument at the East angle corner of said claim, and identical with the S. W. corner of the Elizabeth claim; thence Southeasterly along the west side line of the Elizabeth claim 840 feet to a monument at the S. E. corner of said claim, and identical with the N. E. corner of Oak Grove Claim; thence Westerly 125 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 16th, 1901.

This is an amended notice of location of the Santiago claim located July 8, 1900, by Jephtha Ryan, and recorded in Book 15, Record of Mines at page 153, and is made to supply omissions in original notice.

Dated and posted on the ground this 19th day of Dec. 1903.

Witnesses:

Bob Garrett
Thos Cowan Jr.

TURQUOISE COPPER MINING & SMELTING CO.

By Thos Lowry Supt-

Territory of Arizona,)

:SS.

County of Cochise.)

I, Frank Haro County Recorder in and for said County and Territory aforesaid, do hereby certify that the within instrument was filed for record at 11 O'clock A.M. on this 21st day of December 1903, and duly recorded in Book 25 of Mining Records of Cochise County, Arizona, at pages 69-70
Witness my hand and official seal the day and year first above written.

Frank Haro
County Recorder.

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.

April 26th, 1904

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

do hereby certify that the foregoing and hereto attached Field Notes and Return of the Survey of the Mining Claim of The Turquoise Copper Mining & Smelting Co.

known as the Santiago & Ann.

situate in Turquoise mining district,

Cochise County, Arizona

in Section Township No. 19 S., Range No. 25 E.

designated as Survey No. 1889

executed by John A. Rockfellow, U. S. Deputy Mineral

Surveyor, Jan. 12 & 13, 1904, under my instructions dated

Dec. 26th, 1903, have been critically examined and the necessary cor-

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

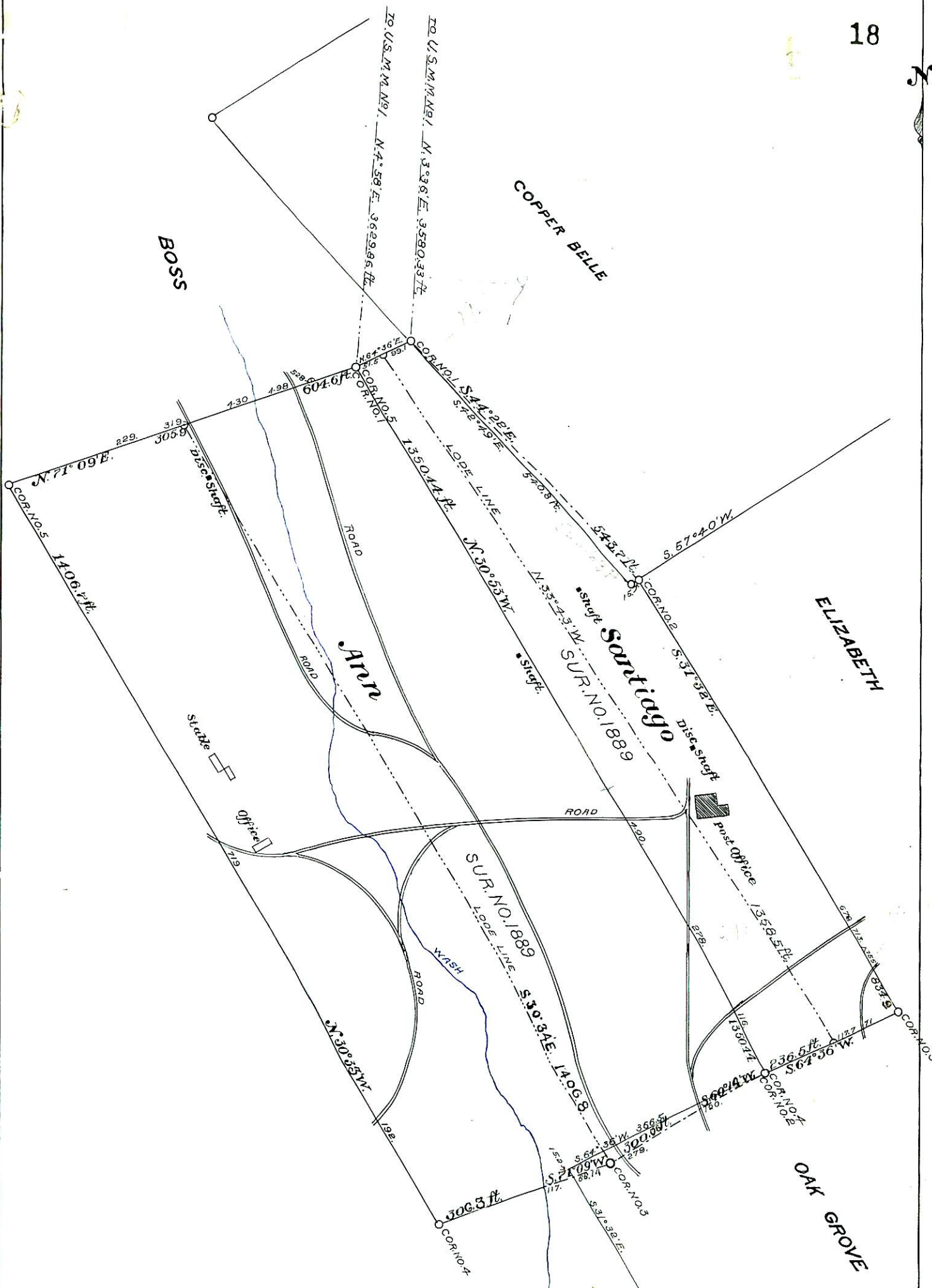
are hereby approved. A true copy of the copy of the location certificate filed by the applicant. for

survey is included in the field notes.

Frank A. Lyall

U. S. Surveyor-General for Arizona

N.



SUR. NO. 1889

GILA LAND DIST.

Surveyed January 12th & 13th, 1904.

by **J.A. Rockfellow.**

U.S. Dep. Mineral Surveyor.

SCALE 200 FT. TO 1 INCH

S.