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Copied by
C. P. D.
Nov. 4-1905

(4-683.)

Mineral Survey No. 2159

Lot No. _____

Arizona Prescott Land District.

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Sarena H. Knight

KNOWN AS THE

Little Boy
Wallapai

Mining District,

Mohave County, Arizona

Section 7, Township 22 N, Range 17 W

Surveyed under instructions dated Sept 1, 1905.

by Philip Conzen
U. S. Deputy Mineral Surveyor.

Claim located January 1st, 1884

Survey commenced September 22, 1905

Survey completed September 23, 1905

o 6-160

Foot
ledge
is. - 304.60 ft from line 1-2
near

Survey No. 2159 Little Boy.

feet

Beginning at Cor. No. 1

Identical with the location which is a mound of stones 2-1/2 ft. base 2 ft. high, a quartzite rock 24 x 10 x 7 ins. set 12 ins. in the ground with a mound of stone alongside, whence

1/4 Sec. cor. bet. secs. 7 and 12 T. 22 N., Rs. 17 and 18 W, bears N. 79° ~~deg.~~ 10' W. 3302 ft.

A cross (X) and B.R. 1-2159 chisled on a quartzite boulder 4 x 3 x 2 ft. above the general surface, bears S. 31-1/2° ~~deg.~~ E. 16.1 ft.

A cross (x) and B.R. 1-2159 chisled on a quartzite boulder 4 x 3 x 2 ft. above the general surface, bears N. 48-3/4° W. 47.1 ft.

Thence S. 49° 3' E.

Va. 15° 15' E.

820 Galch, course S.W.

1500 Cor. No. 2, identical with the location, which is a mound of stones 2-1/2 ft. base 2 ft. high.

A granite stone 24 x 12 x 8 ins. set 12 ins. in the ground chisled 2-2159, whence

A cross (X) and B.R. 2-2159 chisled on a granite boulder 4 x 4 x 3 ft. above the ground, bears N. 67° E. 12.3 ft.

A cross (x) and B.R. 2-2159 chisled on a granite boulder 6 x 4 x 4 ft. above the ground, bears N. 22-1/2° E. 26.4 ft.

Thence N. 33° 12' E.

Va. 15° 15' E.

300 To the S.E. end center monument, identical with the location which is a mound of stone 2-1/2 ft. base 2 ft. high.

600 To cor. No. 3.

A granite stone 26 x 14 x 14 ins., set 12 ins. in the ground with mound of stone along side and chisled 3-2159, whence

A cross (X) and B.R. 3-2159 chisled on a granite boulder 2 x 2 x 2 ft. above the ground, bears S. 30-1/2°

feet

W. 18.3 ft.

A cross (X) and B.R. 3-2159 chisled on a granite boulder 4 x 3 x 3 ft. above the ground, bears S. $63-1/4^{\circ}$ W. 19.9 ft.

Old location monument which is a mound of stone, 2-1/2 ft. base 2 ft. high bears S. $49^{\circ} 8'$ E. 138 ft.

Thence N. $49^{\circ} 8'$ W.

Var. $15^{\circ} 15'$ E.

590

Gulch, bears S.W.

1500

To cor. No. 4, identical with the location, which is a mound of stones 2-1/2 ft. base 2ft. high.

A cross (X) and 4-2159 chisled on a quartzite boulder in place which is ^{24x} 24 x 24 ins. above the ground, whence

A cross (X) and B.R. 4-2159 chisled on a quartzite boulder 5 x 3 x 3 ft. above the ground, bears N. $62^{\circ} 40'$ E. 10.5 ft.

A cross (X) and B.R. 4-2159 chisled on a quartzite boulder 4 x 3 x 2 ft. above the ground, bears S. 62° E. 6.9 ft.

Thence S. $33^{\circ} 12'$ W.

Var. $15^{\circ} 15'$ E.

300

To the N.W. end center monument, identical with the location, which is a mound of stone 2-1/2 ft. base 2 ft. high.

600

To cor. No. 1, place of beginning.

Area 20. 476 acres ✓

Location

This claim is located in Sec. 7, T. 22 N. R. 17 W. Wallapai Min. District, Mohave Co., Ariz.

Adjoining Claims.

Little Boy Lode, is bounded on the Northwest by the Success Lode, unsurveyed; and on the North side by the "98" Lode unsurveyed.

Course of Vein.

The presumed course of vein is from the N.W. end center monument to the S.E. end center monument, S. $49^{\circ} 8'$ E 1500 ft.

Expenditure of Five hundred dollars.

I certify that the value of the labor and improvements upon this claim, placed thereon by the claimants and their grantors, is not less than five hundred dollars, and that said improvements consists of:

From Cor. No.3

Discovery shaft No. 1, 4 x 6 ft., 10 ft. deep, bears N. 71° 30' W. 762 ft.

Value \$100.00.

Tunnel No.2, bears N. 84° 30' W. 790 ft.

The courses of this tunnel are: N. 37° 35' E. 169 ft. thence N. 11° 50' E. 56.3 ft.; thence N. 16° 45' E. 44.5 ft.; thence N. 27° 55' W. 19.5 ft.; thence N. 51° 15' W. 82 ft.

Value \$3,000.00.

Winze No. 3, 4 x 6 ft. 112 ft. deep, Bears N. 59° 30' W. 740 ft.

Value \$1200.00.

Tunnel No. 4, bears N. 60° 30' W. 655 ft. 4 x 6 ft. 80 ft. long, course of tunnel N. 51° 50' W.

Value \$500.00.

Other Improvements.

Lumber Cabin 12 x 20 ft., bears N. 88° 30' W. 650 ft. A stone Cabin 14 x 16 bears N. 72° W 685 ft.

Instrument.

The survey was made by a Young & Sons Light Mountain Transit with a Smith Solar Attachment. The courses were deflected from the true meridian as determined by Solar attachment and checked by Polaris Observation. The distances were ^{MEASURED} ~~made~~ with 50 ft. and 100 ft. steel tapes.

Polaris Observation.

At Cor. No. 1 of the Little Boy lode, Sept. 21, 1905,

8 *h* *m* P.M. I.M.T., I observe

Polaris at eastern elongation, and mark such line by a stake 2 ins. sq. and 18 ins. long driven in the ground at a point 300 ft. N. of my station.

On Sept. 22nd, 1905 at 7 hours 30 min. L.M.T., I deflected $1^{\circ} 26'$ to the west from the line determined by observation. From the meridian thus determined, I checked my lines determined by the Solar apparatus and the same agree within one minute.

Note.

1. In connecting this claim with the public surveys, I was unable to find any quarter or sec. cor. nearer than the $1/4$ cor. bet. secs. 7 and 12, T. 22 N. Rs. 17 and 18 W.
2. Although the location notice of the Little Boy lode deviates in course, the same was properly marked on the ground and easily identified.

Philip Contzen
U.S. Deputy Mineral Surveyor.

FINAL OATHS FOR SURVEYS.

LIST OF NAMES.

A list of the names of the individuals employed by Philip Coutzen

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

Serena H. Knight
known as the Little Boy

and showing the respective capacities in which they acted.

- Frank O'Dea, Chainman.
- Daniel Campbell, Chainman.
- Frank O'Dea, Axman.
- Daniel Campbell, Flagman.

FINAL OATHS OF ASSISTANTS.

We, Frank O'Dea and Daniel Campbell

~~and~~ Coutzen, do solemnly swear that we assisted Philip
Coutzen, United States Deputy Mineral Surveyor, in marking the corners and surveying

the boundaries of the mining claim of Serena H. Knight

known as the Little Boy

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

- Frank O'Dea, Chainman.
- Daniel Campbell, Chainman.
- Frank O'Dea, Axman.
- Daniel Campbell, Flagman.

Subscribed and sworn to by the above-named persons before me this 16th

day of October, 1905

E. F. Thompson
Notary Public

My Commission Expires
July 11, 1908.

(4-686.)

FINAL OATH OF U. S. DEPUTY MINERAL SURVEYOR

I, Philip Cortzen, U. S. Deputy Mineral Surveyor, do solemnly swear that, in pursuance of instructions received from the United States Surveyor General for Arizona, dated September 1-1905, 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 Serena H. Knight, known as the Little Boy, situate in Wallapai Mining District, Mohave County, Arizona, in Section 7, Township No. 22 N, Range No. 17 W, and designated as Survey No. 2159, 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 her 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.

Philip Cortzen
U. S. Deputy Mineral Surveyor.

Subscribed and sworn to by the said Philip Cortzen,
U. S. Deputy Mineral Surveyor, before me

this 28th
day of September, 1905

W. G. Power

Affidavit of Five Hundred Dollars Improvements.

We, Frank O'Dea, and Daniel Campbell

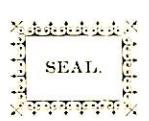
of lawful age, being first duly sworn according to law, depose and say: That we are acquainted with the Little Boy mining claim, situate in Wallapai Mining district, Mohave County, Arizona Territory, for which Serena H. Knight

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 improvements made thereon by the applicant and her grantors exceed Five Hundred Dollars in value, and further that we are not personally interested in said mine.

Frank O'Dea
Daniel Campbell

TERRITORY OF ARIZONA,
County of Mohave } ss:

Sworn to and subscribed before me, this 16th day of October, 1905



E. F. Thompson
Notary Public

My Commission Expires July 11, 1908.

Little Boy

Wallapai Dist

Notice of Location

Know all men by these presents that the undersigned have this day located Fifteen hundred (1500) linear feet of this vein or lode bearing precious metals, with all dips, spurs, angles and variations, with surface ground three hundred (300) feet on each side of the centre of vein, with all mineral Deposits contained therein, and all Timber growing within the limits of said claim, and all water and water privileges thereon or appurtenant thereto under and according to the provisions of the united States Mining Laws, under which it is located.

This claim commences at this monument and Notice placed upon the ledge, and runs 750 feet in a Northerly direction and 750 feet in a Southerly direction along the ledge.

The exterior boundaries are as follows- viz:

Commencing at a monument of stone on west boundary line, distant three hundred (300) feet in a westerly direction from discovery monument, thence in a Northerly direction parallel with the ledge 750 feet to a monument of stone at N.W. corner of claim, thence in an Easterly direction at right angles across the ledge Six hundred (600) feet to monument of stone at N.E. corner of Claim, thence in a Southerly direction parallel with the ledge Fifteen hundred 1500 feet to monument of stone at S.E. corner of claim thence at right angles across the ledge in a westerly direction Six hundred (600) feet to monument of stone at S.W. corner of Claim: thence in a Northerly direction parallel with the ledge 750 feet to monument on West boundary and place of beginning.

This ledge may be more generally described as situated about a mile in a Southwesterly direction from Lane Springs and formerly known as the American Jack, in Wallapai Mining District, Mohave County, Arizona Territory, and shall be known as the Little Boy Mining Claim.

Dated on the ground this first day of January 1884

John O. Brien.

J. A. Pomber.

Recorded at the request of John O. Brien February 26th A. D. 1884 at 9 A. M.

John K. MacKenzie

County Recorder.

Territory of Arizona,)
County of Mohave.) ss.

I, Thos. McNeely, Recorder of Mohave County, Territory of Arizona, do hereby certify that I have compared the foregoing copy of the Little Boy Mining Claim, (which is Recorded in Book H. at Page 333) and of the indorsements thereupon with the original records of the same on file in this office and that the same are correct transcripts therefrom and of the whole of said original records.

WITNESS my hand and seal of said office
this 12th day of August, 1905.

Thos. McNeely

Recorder of Mohave County.



4-688.

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

Department of the Interior,

OFFICE OF U. S. SURVEYOR-GENERAL,

Phoenix, Arizona

Dec 12th, 1905

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 Serena H. Knight

known as the Little Boy

situate in Wallapai

Mining District, Mohave County, Arizona

in Section 7, Township No. 22 N., Range No. 17 W., and designated as Survey No. 2159, 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 her grantors, and that said improvements consist of 1 shaft, wings and 2 tunnels,
total value, \$4800⁰⁰/₁₀₀.

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.

(Signed) 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

Dec. 12th, 1905.

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 Serena H. Knight,

known as the Little Boy,

situate in Wallapai mining district,

Mohave County, Arizona,

in Section 7, Township No. 22 N., Range No. 17 W.,

designated as Survey No. 2159

executed by Philip Contzen, U. S. Deputy Mineral Surveyor, Sept. 22 and 23rd, 1905, under my instructions dated September 1, 1905., have been critically examined and the necessary corrections 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. Lygall

U. S. Surveyor General for Arizona.

DEPARTMENT OF THE INTERIOR

PUBLIC SURVEY OFFICE,

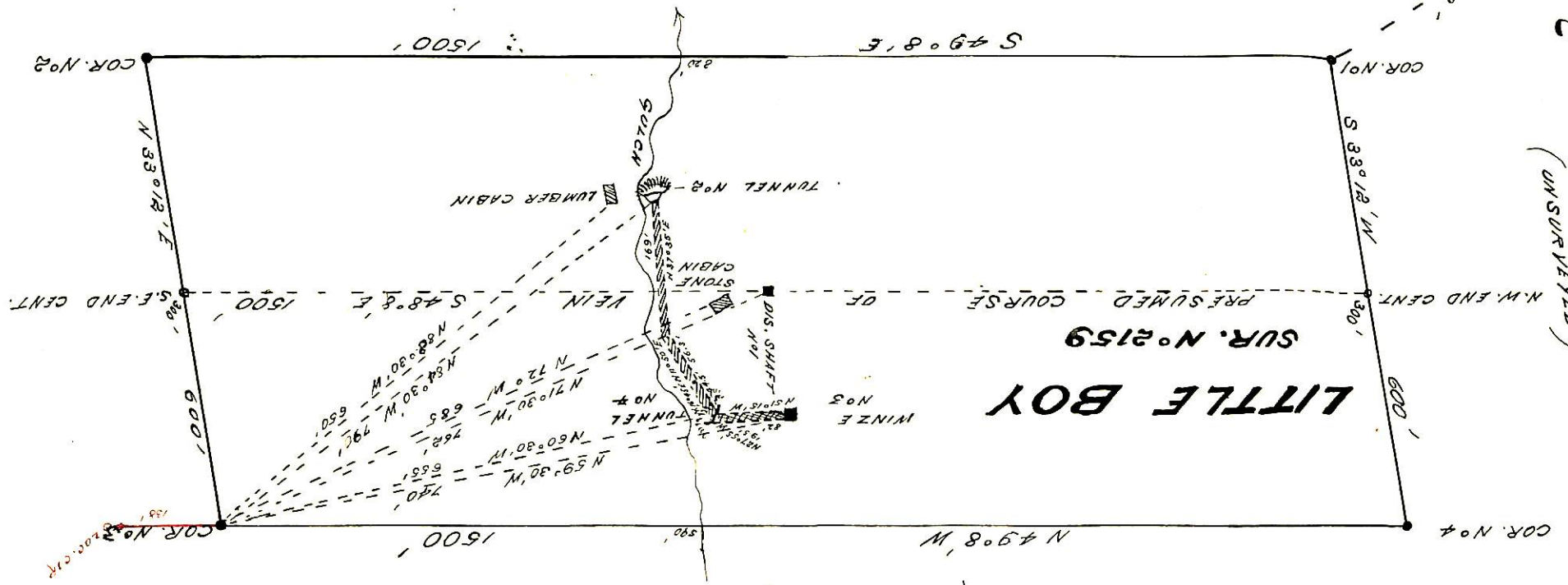
Phoenix, Arizona,
July 18, 1932.

I, A. C. Horton, Jr., District Cadastral Engineer, at Phoenix, Arizona, do hereby certify that the tie from Cor. No. 1 of the Little Boy lode, Mineral Survey No. 2159, to the Cor. of Secs. 5 and 6, T. 22 N., R. 17 W., as computed through the record of Mineral Survey No. 3508, as on file in this office, is N. 21° 20' 10" W. 694.56 ft., and that the correct location of said Little Boy claim, according to this tie, is in the the NW $\frac{1}{4}$ of Sec. 5, T. 22 N., R. 17 W.

I further certify that the plats of said Survey No. 2159, on file in this office and the Phoenix Land Office, have been correctly amended in blue ink to show such tie and location, and that such amendment is made in accordance with letter "M" of July 12, 1932, from the Commissioner of the General Land Office.

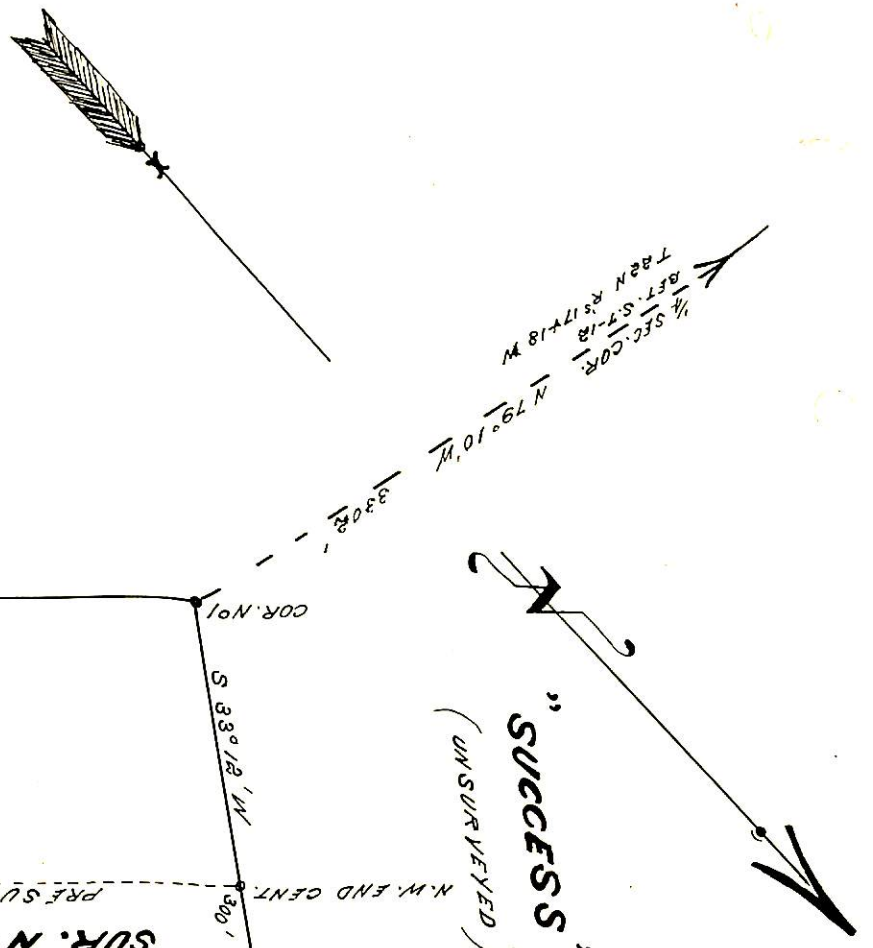

District Cadastral Engineer

SEC. 7-T. 22 N. R. 17 W.



" 98 " (UN SURVEYED)

" SUCCESS " (UN SURVEYED)



SURVEY No. 2159

PRES COTT LAND DIST.

SURVEYED Sept. 22-23/1905

by *Chas. Condon*

U.S. DEPT. MINERAL SUR.

98
UNSURVEYED

Channel No. 4

N. 49° 8' W

BOY

Cor No. 3

600 Ft.

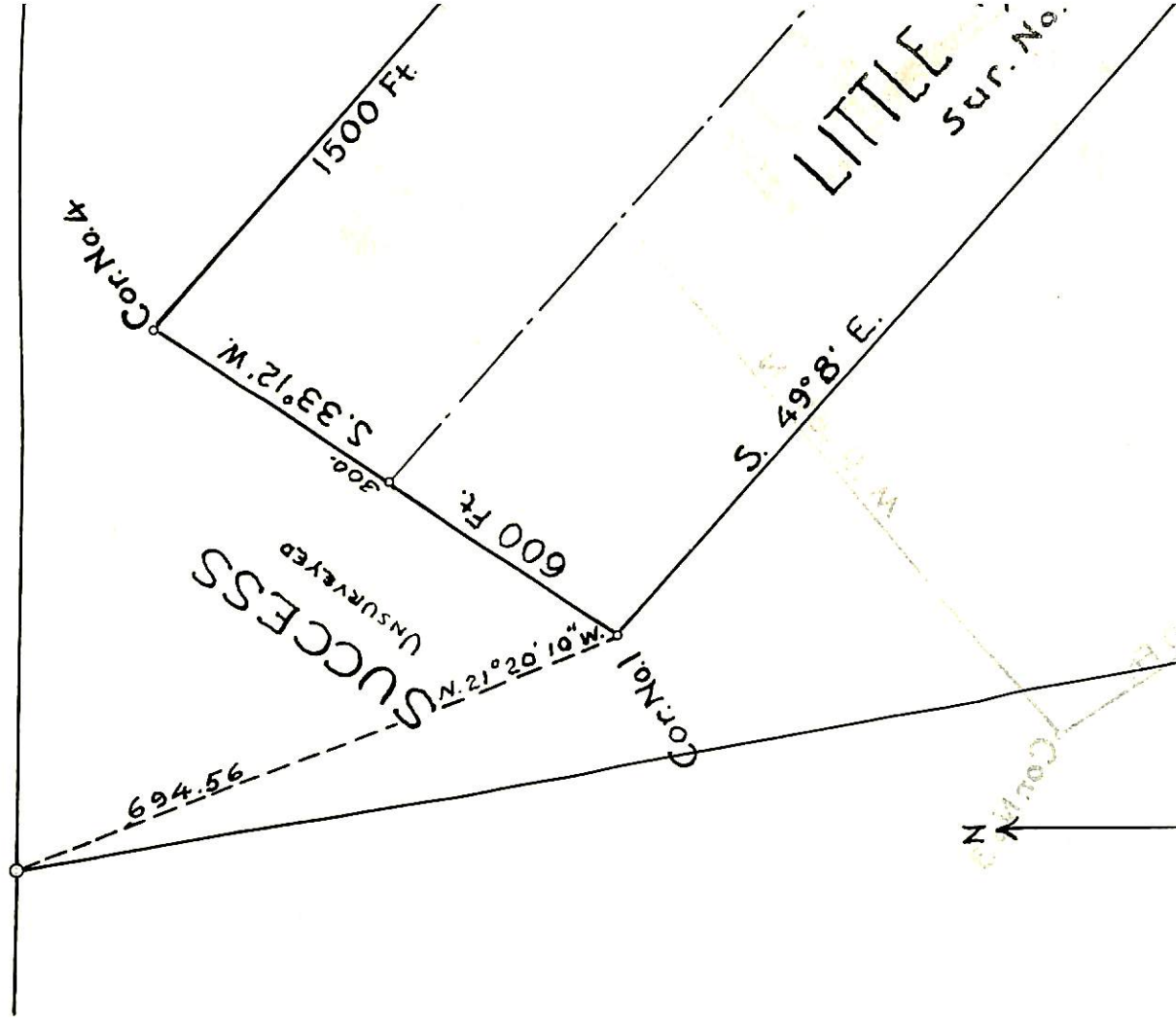
300

N. 33° 12' E

Cor No. 2

300 Ft.

9875
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NW
SEC

SEC. 6

T. 22 N.

Survey Approved Dec. 12, 1
Amendment Appr. July 18,