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LOT NO. 72

**Field Notes.**

of the survey of the

1st South Extension of the  
Tough Nut Mining Claim.

Situate in Tombstone mining district,

County of Cochise and in Sec. 11, Twp. 20

Range 22, of the Gila and Salt River Meridian.

Arizona.

Claimed by the

Girard Gold and Silver

Mining Company.

Survey executed by Theodore F. White, D. S.

Under instructions dated February 10, 1881.

Survey commenced March 8, 1881.

Survey completed March 8, 1881.

PRELIMINARY OATHS FOR SURVEYS OF MINING CLAIMS AND MILL SITES.

WE, John O'Donnell and Henry Deickhoff  
do solemnly swear that we will faithfully execute the duties of Chain Carriers; that we will level the chain upon uneven ground, and plumb the tally pins, whether by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability.

John O'Donnell

Henry Deickhoff

SWORN AND SUBSCRIBED before me this 17<sup>th</sup>

day of February 1881.

John R. Farrell

Notary Public

I, James Collins  
do solemnly swear that I will well and truly perform the duties of Axeman  
and Flagman according to instructions given me, and to the best of my skill and ability.

James Collins

SWORN AND SUBSCRIBED before me this 17<sup>th</sup>

day of February 1881.

John R. Farrell

Notary Public

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of the Troughcut  
Troughcut 1<sup>st</sup> South Extension Mining Claim

Lombstone Mining District  
Cochise County, Arizona.  
Survey of Exterior Lines

Before commencing the survey of the exterior lines of this claim I compared the meridian determined by my instrument - a solar compass made by Young & Sons of Philadelphia - with the U. S. Standard Meridian established in the District. I set my instrument over the point at the N. end of said meridian marked by a brass point set in a stone block and witnessed by a post marked "U. S. S. M." etc, as per notes of the establishment of said meridian. I took an observation for latitude and at a proper hour set off the declination and found the meridian described by my instrument to coincide exactly with the U. S. Standard Meridian. The variation of the needle of my instrument as it so stood was  $12^{\circ}15' E$ . The variation of the needle of the instrument used in establishing the meridian was  $11^{\circ}53' E$ , a difference of  $22'$  which adopting  $11^{\circ}53' E$  as the standard variation, must in my instrument be called "instrumental error" and allowance made for it in the following survey

I examine the corners of the Troughcut 1<sup>st</sup> South Extension Mining Claim, referring to a copy of the location notice for guidance. I find the corners well marked by monuments. Several of the boundary lines of this

of the Doughnut  
Doughnut 1<sup>st</sup> South Extension Mining Claim

Lombstone Mining District A.T.

Chs.

claim coincide with boundary-lines of adjoining claims, already patented, or for which patent has been applied.

Commencing at the N.E. cor. of the claim marked by a stake and mound of stones, which I make the initial-point of survey.

This point is also a cor. of the Doughnut Mining Claim, <sup>lot No. 41</sup> for which it is marked by a post in a mound of stones. The post marked "J. N. M. C. No. 2". Set a post 5 ft long 4x4 in. sq. marked "J. N. 1<sup>st</sup> S. E. M. C. No. 1" 1 ft in the ground and build around it a mound of stones 2 1/2 ft high. Thence along E. side of claim

S. 48° 30' E. Variation 11° 53' E.

(Allowing for "instrumental error" as above set forth.)

Ascending

0.75 Wash running N. and ascend  
4.08 1/2 = 269.61 ft To a cor. of the claim. It is also a cor. of the Hawk Eye claim for which it is marked by a stake in a mound of stones the stake marked "S. W. Cor. Hawk Eye". To mark it for a cor. of the Doughnut 1<sup>st</sup> South Extension <sup>of the Doughnut</sup> Mining Claim, set a post 5 ft long 4x4 in. sq. marked "J. N. 1<sup>st</sup> S. E. M. C. No. 11." 1 ft in the ground and build around it a mound of stones 2 1/2 ft high for a cor. of the Doughnut 1<sup>st</sup> South Extension <sup>of the Doughnut</sup> Mining Claim. Thence continuing along E. side of claim and along line of the Hawk Eye claim

S. 35° 49' E. Same variation

Ascending

3.00 To road from Contention Mine etc. to Lombstone bearing N. & S  
4.09 1/2 = 270.27 ft to a cor. of the claim also a cor. of the Empire claim. <sup>lot No. 46</sup> For the latter it is marked by a post in a mound

of the Troughcut  
Troughcut 1<sup>st</sup> South Extension Mining Claim

Tombstone Mining District A.T.

Chs.

of stones the post marked "E. M. C. No 6"  
Set a post at this point 5 ft long 4x4 in.  
sq. marked "T. N. 1<sup>st</sup> S. E. M. C. No III" 1 ft in  
the ground and build around it a  
mound of stones 2 1/2 ft high for a cor  
of the Troughcut 1<sup>st</sup> South Extension  
Mining Claim. Thence continuing  
along E. side of claim and along  
boundary of the Empire Claim <sup>Lot No. 46</sup>  
S. 42° 13' E Same variation

Descending

4.95 1/2 To a cor. of the Empire Claim <sup>Lot No. 46</sup>  
marked by a post in a mound of stones, the  
post marked "E. M. C. No 7"

5.24 1/2 = 346.17 ft. To S. E. cor. of claim marked  
by a stake and mound of stones. I  
set a post 5 ft long 4x4 in. sq. marked  
"T. N. 1<sup>st</sup> S. E. M. C. No. IV" 1 ft in the ground  
and build around it a mound of  
stones 2 1/2 ft high. for a cor. of the Trough-  
cut 1<sup>st</sup> South Extension <sup>of the Troughcut</sup> Mining Claim  
Thence along the S. E. end of the claim  
S. 41° 28' W. Same variation

Over uneven ground and ascending

3.36 1/2 = 222.09 ft. To intersection with N. W.  
side-line of Tranquillity Claim <sup>Lot No. 49</sup>  
I set  
a post 5 ft long 4x4 in. sq. marked  
"T. N. 1<sup>st</sup> S. E. M. C. No. V" 1 ft in the ground  
and build around it a mound of  
stones 2 1/2 ft. high. for a cor. of the Trough-  
cut 1<sup>st</sup> South Extension <sup>of the Troughcut</sup> Mining  
Claim. Thence along boundary  
of claim also the N. W. side line  
of the Tranquillity Claim <sup>Lot no. 49</sup>  
S. 54° 12' W. Same variation

Ascending

3.60 Road bearing N + S. and descend  
5.72 1/2 = 377.85 ft to a point a few lks.  
easterly from the original S. W. cor.

of the Doughnut  
Sulphur 1<sup>st</sup> South Extension Mining Claim

Tombstone Mining District, A.T.  
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Chs.

of claim. This point gives a width of 600 ft in the direction of the end line of the claim - namely S. 41° 28' W. - the limit allowed by law. therefore at this point I set a post 5 ft long 4x4 in. sq. marked "T. N. 1<sup>st</sup> S. E. M. C. No. V" 1 ft in the ground and build around it a mound of stones 2 1/2 ft high for a cor. of the Doughnut 1<sup>st</sup> South Extension Mining Claim

Thence along W. boundary of claim

N. 42° 13' W. Same variation  
Ascending

1.15 = 75.90 ft. To intersection with E side line of Sulphur Claim <sup>Lot No. 48</sup> at which point I set a post 5 ft long 4x4 in. sq. marked "T. N. 1<sup>st</sup> S. E. M. C. No. VII" 1 ft in the ground and build around it a mound of stones 2 1/2 ft high for a cor. of the Doughnut 1<sup>st</sup> South Extension Mining Claim. Thence continuing along W. boundary of claim also along E. line of Sulphur Claim <sup>Lot No. 48</sup>

N. 30° 46' W. Same variation  
Ascending S. E. slope

0.50 Road from Contention Mine etc. to Tombstone bearing N. E. and S. W.

6.00 Top of hill and descend a little

7.55 = 498.30 ft To a cor. of the claim It is also the N. E. cor. of the Sulphur Claim <sup>Lot No. 48</sup> for which it is marked by a post in a mound of stones, the post marked "S. M. C. No. 6" It is also a corner of the North Extension of the Sulphur <sup>Lot No. 71</sup> for which

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1  
4  
Doughnut 1<sup>st</sup> South Extension of the Doughnut Mining Claim

Lombstone Mining District A.T.

Chs.

it is marked by a post (alongside of Sulphur post) in a mound of stones, the post marked "N. Ex. S. M. C. No 1" This post has just been set by myself in the survey of the last-named claim. It is 5ft. long 4x4 in. sq. 1ft. in the ground and a mound of stones 2½ ft high built around it. I mark another side of the post "J. N. 1<sup>st</sup> S. Ex. M. C. No VIII" for a cor. of the Doughnut 1<sup>st</sup> South Extension of the Doughnut Mining Claim.

Thence along W. boundary of claim and along boundary of North Extension Sulphur Claim Lot No. 71 N. 64° 26' W. Same variation.

Descend steeply.

3,88½ = 256.41 ft. To the N. W. cor. of the claim

This is also the S. W. cor. of the Doughnut Claim Lot No. 41 for which it is marked by a post in a mound of stones the post marked "J. M. C. No. 3" It is also a cor. of the North Extension of the Sulphur Lot No. 71 for which it is marked by a post (alongside of Doughnut) in a mound of stones. This post I have just set in the survey of the North Extension of Sulphur Mining Claim Lot No. 71 and is a post 5ft long 4x4 in. sq. marked "N. Ex. S. M. C. No. 11" set 1ft in the ground and around it is built a mound of stones 2½ ft high. I mark another side of it, J. N. 1<sup>st</sup> S. E. M. C. No 1 X for a cor. of the Doughnut 1<sup>st</sup> South Extension of the Doughnut Mining Claim. Thence along N. end of claim, which is also the S. end of the Doughnut Claim Lot No. 41



of the Toughnut

Toughnut 1<sup>st</sup> South Extension Mining Claim

Tombstone Mining District A.T.

chs.

A run

N. 41° 28' E. Same variation

Ascend steeply out of gulch.

3.00 Top of ridge and descend

9.08 = 599.28 ft to point of beginning

This claim contains  $11 \frac{107}{1000}$  acres

From cor. No. 8 of the claim U. S. Mineral Monument No 1 bears S. 5° 27' W. and is 44.56 chs. distant from said corner.

Description of work done on claim  
From a point on the N. end line of claim 5.53 chs. N. 41° 28' E. from cor. No. 9 a shaft on the claim bears S. 26° 48' E. 70.10 ft distant. This is a double compartment 4 x 9 ft. shaft 470 ft deep, finely timbered from which a drift is run at the 345 ft level. 130 ft. in length  
Over the shaft is built a fine shaft-house, covering large hoisting machinery

Comparison of the bearings of lines of the Toughnut 1<sup>st</sup> South Extension Mining Claim, with bearings of lines of adjoining claims that have been surveyed for patent.

From cor. No III to No IV the line coincides with a line of the Empire Claim <sup>Lot No. 46</sup> to make the bearing of this line to be S. 42° 13' E. In the field notes of the Empire Claim <sup>Lot No. 46</sup> it is given as S. 42° 02' E. a difference of 11'

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of the Troughnut  
Troughnut 1<sup>st</sup> South Extension Mining Claims

Tombstone Mining District A.T.

chs.

From Cors. No V to No VI the line coincides with a line of the Tranquillity, <sup>Lot No. 49</sup> I make the bearing of this line to be S. 54° 12' W. In the field-notes of the Tranquillity, <sup>Lot No. 49</sup> it is given as S. 54° 13' W. a difference of 1'

From Cors. No VII to No VIII the line coincides with a line of the Sulphuret, <sup>Lot No. 48</sup> I make the bearing of this line to be N. 30° 46' W. In the field-notes of the Sulphuret, <sup>Lot No. 48</sup> it is given as 30° 45' W. a difference of 1'

From Cors. No VIII to No IX the line coincides with a line of the N. Extension of the Sulphuret, <sup>Lot No. 41</sup> the bearings are the same

From Cors. No. IX to No. I the line coincides with a line of the Troughnut, <sup>Lot No. 41</sup> I make the bearing of this line to be N. 41° 28' E. In the field-notes of the Troughnut, <sup>Lot No. 41</sup> it is given as N. 41° 52' E. a difference of 24'

All the differences, with the exception of the Empire, <sup>Lot No. 46</sup> and Troughnut lines, <sup>Lot No. 41</sup> are slight. The Empire, <sup>Lot No. 46</sup> and Troughnut, <sup>Lot No. 41</sup> claims were surveyed for patent before the establishment of the U. S. Standard Meridian and probably by magnetic instruments.

The variation used in making the survey is different from the standard variation. All the bearings of the lines run by me are from an absolute meridian as determined by the solar instrument and are entirely independent of the un-

of the Toughnut

Toughnut 1<sup>st</sup> South Extension Mining Claim

Tombstone Mining District, A.T.

chs.

certainties of the needle. The corners marking the above lines, the bearings of which do not agree with the bearings given in the field - notes of the former surveys are well established and there is no question about their identity.

General Description etc.

The Toughnut 1<sup>st</sup> South Extension Mining Claim is situated in the Tombstone Mining District Cochise County, Arizona Territory

The surface of the claim is hilly and rocky, with very little vegetation - no timber - It adjoins the celebrated Toughnut Mine and other prominent claims

The value of the work and improvements on the claim, as above described, is many times the amount of five hundred dollars.

March 8, 1881

Theodore F. White  
U.S. Deputy Surveyor

FINAL OATHS FOR SURVEYS OF MINING CLAIMS ~~and~~ MILL SITES.

A LIST of the names of individuals employed to assist in running, measuring, or marking the lines and corners described in the foregoing field-notes of the survey of the 1<sup>st</sup> South Extension of the Tough Nut Mining Claim located in Tombstone Mining District, Cochise County, Arizona, showing the respective capacities in which they acted.

James Callin Chainman.  
John O'Donnell Chainman.  
Henry Deickhoff Axeman.  
Henry Deickhoff Flagman.

WE hereby certify that we assisted Theodore F. White U. S. Deputy Surveyor, in surveying the 1<sup>st</sup> South Extension of the Tough Nut Mining Claim claimed by the Edward S. and S. Mining Co. located in Tombstone Mining District, Cochise County, and in ~~Township No. Range No.~~ of the Gila and Salt River base and meridian, Arizona, and that said Survey has been in all respects, to the best of our knowledge and belief, well and faithfully executed, and the boundary monuments planted according to the instructions furnished by the Surveyor General.

James Callin Chainman.  
John O'Donnell Chainman.  
Henry Deickhoff Axeman.  
Henry Deickhoff Flagman.

SWORN TO AND SUBSCRIBED before me this 9<sup>th</sup> day of March 188 1

John R. Fayell  
Notary Public.

I, Theodore F. White U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions from John Wasson, U. S. Surveyor-General for Arizona, bearing date the 10<sup>th</sup> day of February 188 1, I have well, faithfully and truly, in my own proper person, and in strict conformity with the instructions furnished by the Surveyor-General and the laws of the United States, surveyed all those portions of the First South Extension of the Tough Nut Mining Claim claimed by the Edward S. and S. Mining Co. located in Tombstone Mining District, Cochise County, Arizona, as are represented in the foregoing field-notes as having been surveyed under my directions; and I do further solemnly swear that all the corners of said surveys have been established and perpetuated in strict accordance with the instructions furnished me, and that the foregoing are the true and original field notes of such surveys.

Theodore F. White Deputy Surveyor.

SWORN TO AND SUBSCRIBED before me this 12<sup>th</sup> day of March 188 1

John R. Fayell  
Notary Public.



## AFFIDAVIT OF FIVE HUNDRED DOLLARS IMPROVEMENTS.

We, Elmer S. Daniels and R. H. Cavell

of lawful age, being first duly sworn according to law, depose and say that we are acquainted with the First South Extension of the Tough  
hook mining claim, situate in Tombstone

Cochise Mining District, Cochise County, Arizona  
Territory, for which the Standard and Law S. Mining 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 improvements made thereon by the applicant and its grantors exceed Five Hundred Dollars in value, and further that we are not personally interested in said mine.

Elmer S. Daniels  
R. H. Cavell

TERRITORY OF ARIZONA, }  
County of Cochise } SS.

SWORN AND SUBSCRIBED before me this 26th  
day of March 1881

John R. Faull  
Notary Public.

"Toughnut 1<sup>st</sup> South E"

Notice. We the undersigned by virtue of the Congressional Law of May 10<sup>th</sup> 1872 have this day located and claim this mineral bearing quartz lode and mining claim commencing at the Southern centre and monument of the Toughnut (being distant northwesterly from the monument on which this notice is placed 20 feet more or less) thence easterly along the Southern boundary of the Toughnut location 300 feet to monument of stone the N. E. corner, thence Southerly 500 feet more or less to monument of stone on northern boundary of Tranquillity being the S. E. corner, thence westerly along the northern boundary of Tranquillity 600 feet or less to eastern boundary of the Sulphurch the S. W. Corner thence northerly along the eastern boundaries of the Sulphurch and survey locations 800 feet more or less to the South West corner of the Toughnut being the N. W. Corner of this location thence easterly along the Southern boundary of the Toughnut 300 feet to point of beginning claiming all the privileges granted by the laws of Congress Territory and District, Dated on the ground in Tombstone District Pima County Arizona Territory June 30<sup>th</sup> A. D. 1878. To be known as the first South extension of the Toughnut.

Ward Priest

Talley Ogden

W. C. Parsons

Filed and recorded at request of W. C. Parsons July 10<sup>th</sup> A. D. 1878 at 9<sup>50</sup> A. M.

A. M. Carpenter County Recorder.

Territory of Arizona }  
County of Pima } ss

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I, Sidney W. Carpenter, 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  
Location Notice of the Toughnut 1<sup>st</sup> South Ex. mine as  
appears of record now in my office in Book D, page  
172. In Witness whereof, I have hereunto set my hand  
and affixed my official seal at my office in Tucson  
this Seventh day of November A.D. 1880.

Sidney W. Carpenter County Recorder  
By W. H. Reed Deputy

U. S. Surveyor General's Office.

Tucson, Arizona, April 16, 1881.

The foregoing field notes of the survey of the 1st South Ext<sup>n</sup> of  
the Tough Nut Mining claim situate in  
 the Tombstone Mining District, Cochise  
 County, Arizona, claimed by the Girard Gold and  
Silver Mining Company;  
 survey executed by Theodore F. White Deputy  
 Surveyor, under instructions from this office, having been critically examined  
 and the necessary corrections and alterations made, the said field notes and  
 the survey they describe are hereby approved.

John Masson,

Surveyor General.





