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See Suppl. notes (the) herewith

LOTS NO. 11, A & B.

Surveys No. 412 and 413.

**Field Notes**

of the survey of the

*Western Extension of San Xavier  
Mining and Mill Site claims.*

Situate in *Pima* mining district,

County of *Pima* and in Sec. \_\_\_\_\_, Tp \_\_\_\_\_

Range \_\_\_\_\_, of the Gila and Salt River Meridian.

Arizona.

Claimed by *Santa Rita Land and Mining  
Company.*

Survey executed by *Dolon M. Allis* D. S.

Under instructions dated *September 9*, 188*2*.

Survey commenced *September 12*, 188*2*.

Survey completed *September 15*, 188*2*.

# PRELIMINARY OATHS

FOR SURVEYS OF MINING CLAIMS AND MILL SITES.

WE, J. A. Conlee and Hugh F. Mc Guire  
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 stickiny 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.

J. A. Conlee  
Hugh F. Mc Guire

SWORN to and subscribed before me, this 11<sup>th</sup> day  
of September, 1882

Solon Mc Allis  
Notary Public, Pima Co. A.T.

I, Geo. D. Smith

do solemnly swear that I will well and truly perform the duties of Flagman  
Survey of Western Ex. & San Xavier Min according to instructions given me,  
and to the best of my skill and ability.

Geo. D. Smith

SWORN to and subscribed before me this 11<sup>th</sup> day  
of September, 1882

Solon Mc Allis  
Notary Public  
Pima Co. A.T.

*FIELD NOTES.*

of the Survey of the  
*WESTERN EXTENSION*  
*SAN* <sup>of the</sup> *XAVIER*

*Mining Claim.*

*Piute Mining District Pinalco A.T.*

*Surveyed under Order of*  
*Surveyor General J. W. Robbins*  
*Dated Sept 9, 1882*

*By*  
*Survey Made Sept 12<sup>th</sup>*

*By*  
*Solon W. Allen*  
*U.S. Dep. Mineral Surveyor.*

Field Notes of the Survey of the  
Western Extension of the San Xavier  
Mining Claim in Pima Mining  
District Pima Co. A. T.

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Commenced at Initial Monument  
at East End of Claim where Location  
notice was placed.

Set a pine post  $2 \times 4$  ins sq 5 ft long  
Marked S.X. EX. No 1 set post 2  
feet in the ground and built  
a monument of stones 2 1/2 feet high  
around it. From which

Var  $13^{\circ}$  E. by Obs on Polaris.  
U.S. Mineral Monument No 2 Pima  
Mining Dist bears  $S 75^{\circ} 40' W$  Dist  
2400 feet =

Shaft No 1 bears  $S 81^{\circ} W$  Dist 16 ft  
Diamond Drill hole No 1 bears  
 $S 81^{\circ} 15' W$  - Dist 105 feet.

N.E. Cor of Blacksmith shop bears  
 $S 50^{\circ} 30' W$  Dist 25 feet. Shop  $12 \times 14$  ft.  
Thence Iron

Var  $13^{\circ}$  E

80  $S 9^{\circ} E$  Along East End boundary  
of Claim to point opp. Diamond  
Drill hole. No 2 - 110 feet to Pt of  
line.

300 To S.E. Cor of Claim where I set a  
pine post  $2 \times 4$  ins sq 5 ft long. Marked  
S.X. EX. No II. set post 2 feet in  
the ground and built a monument  
of stones 2 1/2 feet high around it.  
Thence Iron

Var  $13^{\circ}$  E

170  $S 81^{\circ} W$  Along South Boundary line  
of Claim to point opp. <sup>S.E. Cor</sup> Stone House.  
Dist 28 ft to Pt of line -

250 To N.W. Cor of house just on line.

260 To Road - running N.E.

280 To a point opposite Main shaft No 2

5

Field Notes of Survey of the Western Extension  
of the San Xavier Mining Claim - Pima  
Mining District Pima Co. A.T.

- 289 ft cut Pt of line -  
485 To small gulch running N.E.  
1050 To N.E. Cor Monument of Democrat  
Mining Claim -  
1500 To S.W. Cor of claim where I  
set a pine post  $2 \times 4 \frac{1}{2}$  sq 5 ft long  
marked S.X.E.X.N<sup>o</sup> III 2 ft in the  
ground and built a monument  
of stones 2 1/2 feet high around it -  
Thence I ran

Var  $13^{\circ} E$  -

- 200 N  $90^{\circ} W$ . Along West End boundary  
of claim to small gulch running  
Eastly -

- 300 To Center of West End of claim  
This also Center of East End of  
the Arizona Queen Mining Claim  
where I set a pine post  $2 \times 4 \frac{1}{2}$  sq - 5 ft  
long marked S.X.E.X.N<sup>o</sup> IV.  
I set post 2 1/2 ft in the ground  
and built a monument of stones  
2 1/2 ft high around it -

From which U.S. Mineral  
Monument N<sup>o</sup> 2 Pima Dist bears  
 $566^{\circ} 52' W$  - Dist 920 feet -

From Post N<sup>o</sup> 3 - or S.W. Cor of this claim  
N.E. Cor of Mill Site bears -  $574^{\circ} 30' W$   
Dist 8268 feet -

From Post N<sup>o</sup> IV

- I ran Var  $13^{\circ} E$  -  
300 Continuation of West End boundary line  
of claim N  $90^{\circ} W$ . To N.W. Cor of  
claim where I set a post  $2 \times 4 \frac{1}{2}$  sq  
5 ft long marked S.X.E.X.N<sup>o</sup> V. set  
post 2 feet in the ground and  
built a monument of stones 2 1/2 feet

Field Notes of Survey of the Western Extension of the San Xavier Mining Claim, Pima Mining Dist Pima Co. A.T.

high around it.

Thence I ran

Var 13° E

- 760 N 81° E Along North Side Boundary of Claim to a point opposite Mouth of Tunnel Dist 260 ft or less -
- 1300 To gulch running N.E.
- 1430 To Road to Tucson running N.E.
- 1500 To N.E. Cor of claim where I

the Veta claim 450 ft to S.E. Cor. Run 20 ft

set a pine post 2x4" sq 5 ft long marked S.X.E.VI. set post 2 ft into rock and built a monument of stones 3 ft high  
Thence I ran

Var 13° E.

- 300 S 9° E Along East Boundary of claim to place of beginning -

General Description

This claim lies in a hollow between limestone hills about 3/4 of a mile west of the Helmet peak in Pima Mining Dist Pima Co. A.T. and about 18 miles S.W. of Tucson.

The Improvements made by the Claimants and Grantors, are as follows

1 Blacksmith Shop - 12 x 14 ft

1 Store House 54 x 20 ft

Shop No 1 - 5 x 8 - 140 feet deep

Shop No 2 = 5 x 7 - 275 " "

Drifts & Miners aggregating 472 feet

1 Tunnel 6 x 4 - 75 ft long

2 Drifts in 3 Drift Hole No 1 = 280 ft deep

" " " " No 2 = 275 ft "

4

7.

Field Notes of the Survey of the  
Western Extension of the  
San Xavier Mining Claim  
Pima Mining District Pinal Co. A.T.

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General Description

The whole aggregating many  
thousands of dollars worth of  
work =

This Claim Contains 20.66 Acres

John W. Allis  
U. S. Deputy Mineral Surveyor



San Xavier

FINAL OATHS FOR SURVEYS OF MINING CLAIMS & MILL SITES.

A LIST of 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 Western Extension of The San Xavier Mine located in Pima Mining district, Pima County, Arizona, showing the respective capacities in which they acted.

J. Aboulee Chainman.  
Hugh F. McGuire Chainman.  
Geo. D. Smith Axeman.  
Geo. D. Smith Flagman.

WE hereby certify that we assisted Solon M. Allis U. S. Deputy Surveyor, in surveying The Western Extension of The San Xavier Mine claimed by The Santa Rita Land and Mining Company located in Pima Mining District, Pima 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.

J. Aboulee Chainman.  
Hugh F. McGuire Chainman.  
Geo. D. Smith Axeman.  
Geo. D. Smith Flagman.

SWORN TO AND SUBSCRIBED before me this 16<sup>th</sup> day of September 1882

Solon M. Allis  
Notary Public Pima Co. A.T.

I, Solon M. Allis U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions from the U. S. Surveyor-General for Arizona, bearing date the 9<sup>th</sup> day of September 1882, 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 Western Extension of The San Xavier Mine claimed by The Santa Rita Land and Mining Company located in Pima Mining District, Pima 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.

Solon M. Allis Deputy Surveyor.

SWORN TO AND SUBSCRIBED before me this 26<sup>th</sup> day of September 1882

J. L. Stiles  
Notary Public  
Pima County  
Arizona



TERRITORY OF ARIZONA, } ss.  
County of Pima.

9

I, Chas. R. Drake, 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  
"Western Ex Navier Mine"

as appears of Record now in my Office in Book *B<sub>1</sub>* Pages *451* Records of Mines

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, at my office in Tucson this *4<sup>th</sup>* day of *September* A. D. 188*2*.

*Chas R Drake*

County Recorder,



Western Ex Navier Mine.

Notice The undersigned claim 1500 feet  
of this lode of metal bearing rock to-  
gether with 30 feet on each side of  
centre of same, the location to be  
known as the (Western Extension of  
(Saw) Navier Mine) and more particularly  
described as follows, Commencing  
at a stone monument in which a  
copy of this notice is placed about  
33 feet S. West of line of deep shaft  
on said mine and running from  
thence 1500 linear feet in a westerly  
direction to or near a stone monu-  
ment standing at the western extre-  
mity of said western extension, In  
the County of Pima and Territory of  
Arizona and situated about 18 Miles  
in a Southerly direction from Tucson  
May 31<sup>st</sup> 1876

O. P. Ingham

Filed and Recorded at request of O. P.  
Ingham August 19<sup>th</sup> AD 1876 at 5 O'clock<sup>P.M.</sup>

S. W. Carpenter  
Recorder

San Xavier etc

Don't copy

AFFIDAVIT OF FIVE HUNDRED DOLLARS IMPROVEMENTS.

We, *J. A. Coulee* and *Thos. H. Selby*.

of lawful age, being first duly sworn according to law, depose and say that we are acquainted with the *Western Extension of the San Xavier* mining claim, situated in

*Pima* Mining District, *Pima* County, Arizona Territory, for which *Geo. D. Smith* and

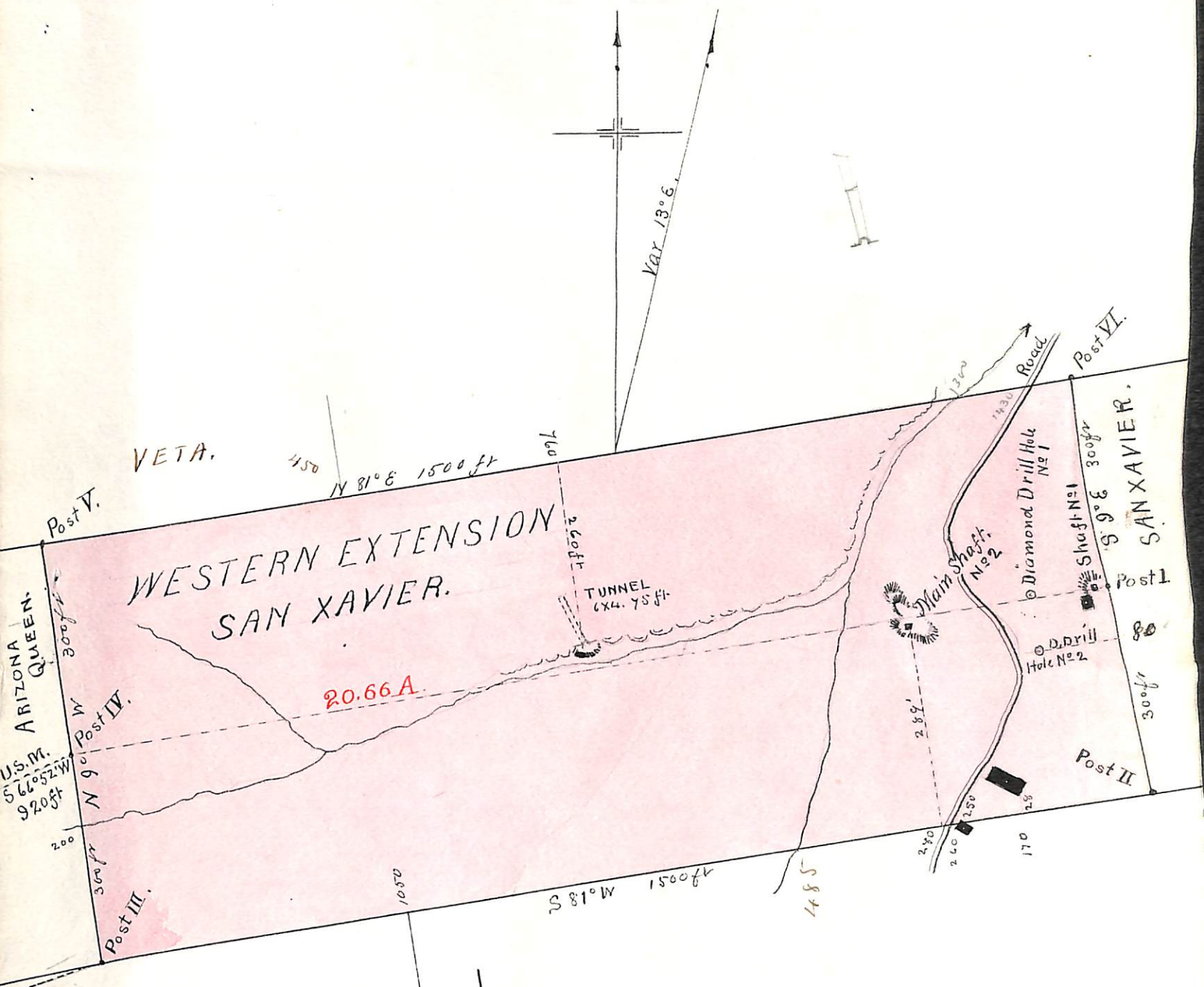
has made application for survey prior to application for patent under the provisions of the Act of Congress approved May 10, 1872, and that the labor done and improvements made thereon by the applicant and grantor exceed Five Hundred Dollars in value, and further that we are not personally interested in said mine.

*J. A. Coulee*  
*Thos. H. Selby*

TERRITORY OF ARIZONA,  
County of *Pima* } SS.

SWORN to and subscribed before me, this *16<sup>th</sup>* day of *September* 188*2*

*Solon Mc Allis*  
Notary Public Pima Co. A.T.



VETA. 450 N 81° E 1500 ft

WESTERN EXTENSION SAN XAVIER.

20.66A

TUNNEL 6x4.75 ft.

760

260 ft

Var 13° E.

Post VI

SAN XAVIER.

Post I

Post II

DEMOCRAT.

Post IV

Post III

From Post IV Western Extension San Xavier To U.S. Min Mon No 7 Pima Dist S 66° 52' W Dist - 920 feet.

From Post No III To N.E. Cor Mill Site S 74° 30' W Dist 8268 ft.

U.S.M. S 66° 52' W 920 ft

Post IV

Post III

M 18 S 19051

485

Main Shaft No 2

S 9° E 300 ft

D.D. Drill Hole No 2

280

240

250

170

25

25

1300

1430

Road

Diamond Drill Hole No 1

Shaft No 1

300 ft

300 ft

300 ft

300 ft

300 ft

300 ft

# PRELIMINARY OATHS

FOR SURVEYS OF MINING CLAIMS AND MILL SITES.

WE, J. A. Coulee and Hugh F. Mc Guire  
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 length of all lines that we assist in measuring, to the best of our skill and ability.

J. A. Coulee  
Hugh F. Mc Guire

SWORN to and subscribed before me, this 11<sup>th</sup> day  
of September 1882

Solar Mc Allis  
Notary Public Pima Co. A.T.

I, Geo D Smith

do solemnly swear that I will well and truly perform the duties of Flagman  
Survey of San Xavier Mill Site according to instructions given me,  
and to the best of my skill and ability.

Geo. D. Smith

SWORN to and subscribed before me this 11 day  
of September, 1882

Solar Mc Allis  
Notary Public Pima Co. A.T.

# FIELD NOTES.

## Survey of the WESTERN EX<sup>N</sup> SAN XAVIER MILL SITE.

Pima Mining District Pinal Co. A.T.  
Surveyed under order of  
Surveyor General J. W. Robbins  
Dated Sept 9. 1882

Survey <sup>made</sup> completed Sept 15<sup>th</sup>  
by

Toton McAllis  
U.S. Dep Mineral Surveyor.

Field Notes of Survey of the Western  
Extension San Xavier Mill Site  
Pima Mining Dist Pima Co. A.T.

Commenced at N.E. Cor of Mill Site.  
where Notice of location was placed. I  
set a pine post  $2 \times 4$ " sq 4 ft long  
marked W.E.X. S.X. M. S. N. I. Set post one  
foot in the ground - and built a  
monument of stones 2 1/2 ft high around it.  
From which Well bears -  $S 41^{\circ} 30' W$   
Dist 300 feet. Var  $13^{\circ} E$  by Obs on Polaris.  
The S.W. Cor of the Western Extension of  
the San Xavier Mine bears -  $N 74^{\circ} 30' E$   
Dist 8268 ft or 125.28 Chs.  
Thence I ran

Feet

Var  $13^{\circ} E$ . as obs. on Polaris.

50  $S 18^{\circ} W$  Along S.E. side boundary of  
Mill Site to Road running N.E.

600 To S.E. Cor of Mill Site where I set  
a pine post  $2 \times 4$ " sq 4 ft long - marked  
W.E.X. S.X. M. S. N. I. and built a monument  
of stones 2 1/2 feet high around it  
Thence I ran

Var  $13^{\circ} E$

15  $N 72^{\circ} W$  along S.W. End boundary  
of Claim. to gulch running S.W.

180 To Road running S-

363 To S.W. Cor of Claim. where I set a  
pine post  $2 \times 4$ " sq 4 ft long marked  
W.E.X. S.X. M. S. N. I. Set 2 feet in the  
ground. and built a monument of  
stones 2 1/2 feet high around it.

Thence I ran

Var  $13^{\circ} E$

600  $N 18^{\circ} E$ . Along N.W. Side Line of Mill  
Site to N.W. Cor. where I set a  
pine post  $2 \times 4$ " sq - 4 ft long marked  
W.E.X. S.X. M. S. N. I. set 2 ft in the  
ground and built a monument of stones  
2 1/2 feet high around it -



Feb

Field Notes of Survey of the Western  
Extension San Xavier Mill Site  
Pima Mining Dist Pima Co A.T.

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16

Thence Iron

Var  $13^{\circ}$  E.

243

S  $72^{\circ}$  E. Along N.E. end boundary  
of claim to gulch running South.

363

To NW Cor of Mill Site to place  
of beginning -

### General Description

This Mill Site lies about 2 miles  
S. Westly from the Stone House. at  
San Xavier Camp - in a hollow

The improvements consist  
of one well 25 ft deep - connected  
with the Camp - by a line of pipe of  
one inch iron - and on the well a  
pump -

The Mill Site contains 5 acres

Solon McAllis

U.S. Deputy Mineral Surveyor -

FINAL OATHS FOR SURVEYS OF MINING CLAIMS & MILL SITES.

A LIST of 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

Western Extension of San Xavier Min Mill Site located in Pima Mining district, Pima County, Arizona, showing the respective capacities in which they acted.

J. A. Conlee Chainman. Hugh F. McGuire Chainman. Geo. D. Smith Axeman. Flagman.

WE hereby certify that we assisted U. S. Deputy Surveyor, in surveying Solon M. Allis The Western Extension of the San Xavier Min Mill Site claimed by The Santa Rita ~~Lead~~ Mining Company located in Pima Mining District, Pima 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.

J. A. Conlee Chainman. Hugh F. McGuire Chainman. Geo. D. Smith Axeman. Flagman.

SWORN TO AND SUBSCRIBED before me this 16th day of September 1882

Solon M. Allis Notary Public Pima Co. A.T.

I, Solon M. Allis U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions from the U. S. Surveyor-General for Arizona, bearing date the 9th day of September 1882, 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 Western Extension of San Xavier Min Mill Site claimed by The Santa Rita Lead and Mining Company located in Pima Mining District, Pima 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.

Solon M. Allis Deputy Surveyor.

SWORN TO AND SUBSCRIBED before me this 26th day of September 1882

J. L. Stiles Notary Public Pima County Arizona



Notice of location of a mill site

Notice is hereby given to all whom it may concern, that the Santa Rita Land and Mining Company of Tucson, Pima Co., Arizona Territory, being in possession of and using for mining purposes, in connection with the San Xavier Mining Claim, Western Extension, a certain well or spring of water and five acres of land surrounding the same, situated about two miles from the said San Xavier Mining Claim, Western Extension, the said Company in pursuance of an Act of Congress dated May 10<sup>th</sup> 1872, have this day located and claimed the said well or spring of water, together with five acres of surface ground surrounding and including the said well and described as follows, viz: Commencing at a monument of stone, located three hundred feet (300) in a northeasterly direction from the well aforesaid, and marked N. E. Corner; thence southerly, six hundred (600) feet to a monument of stone marked S. E. Corner; thence westerly, three hundred and sixty three (363) feet, to a monument of stone, marked South West Corner; thence northerly, six hundred (600) feet, to a monument of

stone marked Northwest corner; thence easterly three hundred and sixty three <sup>19</sup> (363) feet to place of beginning. This site shall be known as the millsite of the San Xavier Mining Claim, Western Extension, and is situated in Pima Mining District, Pima County, Arizona Territory, about two miles west of the San Xavier Mines.

Dated Sept. 6<sup>th</sup> 1882.

Witness:

Thos. H. Selby } Santa Rita Land and Mining Co.  
Geo. D. Smith } By C. P. Sykes

Filed and recorded at request of Geo. D. Smith Sept. 7<sup>th</sup> <sup>ad</sup> 1882. at 5 10 P. M.

Chas. R. Drake  
County Recorder

TERRITORY OF ARIZONA, } ss.  
County of Pima.

I, Chas. R. Drake, 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 Mill Site of San Xavier Mining Claim Western Extension

as appears of Record now in my Office in Book 1 of Mill Sites Pages 342.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, at my office in Tucson this 8<sup>th</sup> day of September A. D. 1882

Chas. R. Drake

County Recorder,



Not

# NON-MINERAL AFFIDAVIT.

TERRITORY OF ARIZONA, )

County of Pima ) ss.

Thos H Selby and Hugh F Mc Guire of said

County and Territory, being first duly sworn, each for himself and not one for the other, deposes and says that he is well acquainted with the land of the Western Ex<sup>o</sup> San Xavier Min<sup>g</sup> mill-site claim situated in Pima Mining Dist

Gila and Salt River Meridian, in the County of Pima and Territory of Arizona, claimed by The Santa Rita Land and Mining Company applicant for United States patent therefor; that he is well acquainted with the character of said described

land included within the boundary lines as officially surveyed by Solon Mc Allis United States Deputy Surveyor, having frequently passed over the same; that his knowledge of such land is such as to enable him to testify understandingly with regard thereto; that there is not to his knowledge within the limits thereof any vein or lode of quartz or other rock in place bearing gold, silver, cinnabar, lead, tin or copper or any deposit of coal; that there is not within the limits of said land, within his knowledge, any placer, cement, gravel or other valuable mineral deposits; that no portion of said land is claimed under the local customs or rules of miners or otherwise; that no portion of said land is worked for minerals during any part of the year by any person or persons; that said land is essentially non-mineral land, and that there is within the boundaries of said claim improvements, to-wit:

One Well - 25 feet deep - and pump - connected by ten miles more or less pipe to mine - and that he has no interest whatever in said described mill-site claim.

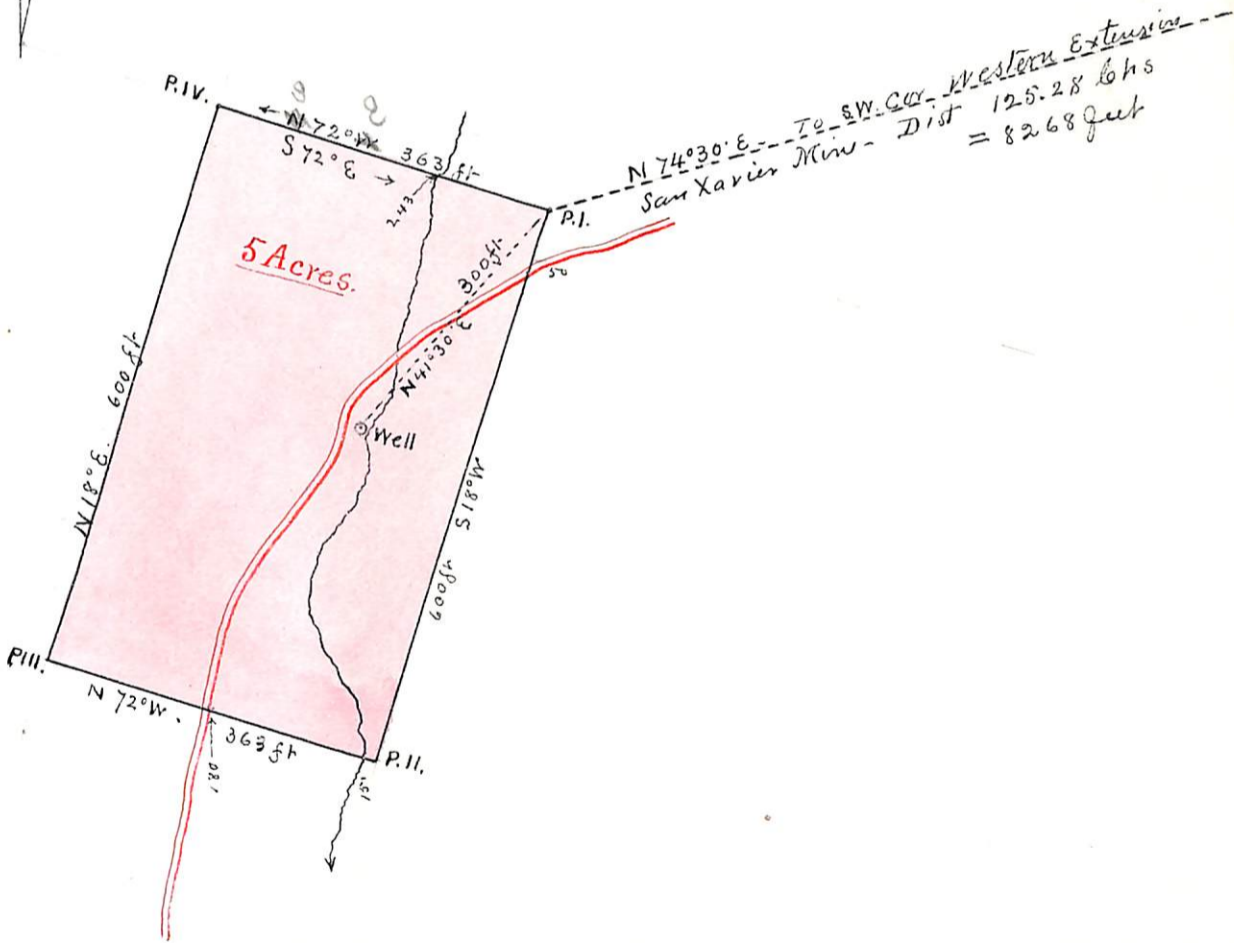
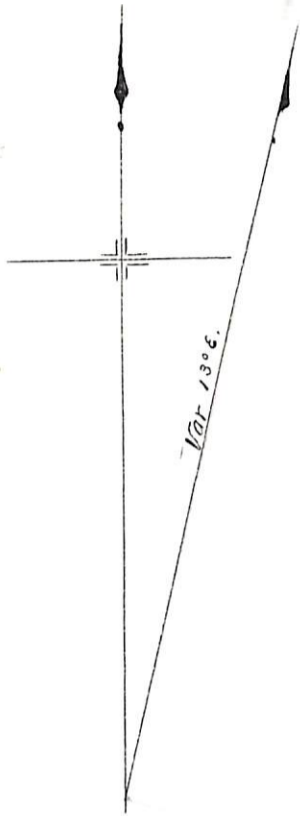
Thos H Selby  
Hugh F Mc Guire

SUBSCRIBED AND SWORN to before me this 16<sup>th</sup> day of

September A. D. 1882; and I hereby certify that the foregoing affidavit was read to the said Thos H Selby and Hugh F Mc Guire previous to their names being subscribed thereto, and

that deponents are reputable persons to whose affidavits full faith and credit should be given.

Solon Mc Allis  
Notary Public Pima Co A.T.



SAN XAVIER  
 WESTERN EXTENSION  
 MILL SITE.

U. S. Surveyor General's Office.

Tucson, Arizona, October 11, 1887.

The foregoing field notes of the survey of the Western Extension  
of San Xavier Mining & Mill Site Claims situate in  
the Pima Mining District, Pima  
County, Arizona, claimed by Santa Rita Land  
and Mining Company  
survey executed by Solon M. Ellis 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.

J. U. Robbins

Surveyor General.

Field Notes of the Supplementary Survey

Part of the H. E. Saw Caver Mill site Claim  
Pima Mining District Pima Co. Ariz

Survey made to connect the  
Mill Site Claim with the  
U.S. Min. Mon No 2 Pima Elg.  
Dist. Pima Coy. Ariz. under  
instructions from the U.S. Surveyor  
Genl of Ariz. dated July 5<sup>th</sup> 1885

23

Instrument used "Buff & Bergers"  
Transit No 59 reading by two  
wornies to single minutes, and  
a fifty foot steel tape

Commence at the N.E. corner  
of the Mill site claim which  
I find marked by a pine post  
and a monument of stones in  
good condition, post marked  
S. X. N. E. <sup>S. X.</sup> M. S. L. <sup>No. 1.</sup> N. E. Cor.  
and run thence

Var 13° E.

N. 43° - 50' E.

66

Over a low ridge of rocks  
from which point the U.S.  
Min. Mon. No 2. Pima Elg. Dist  
Pima Coy. Ariz is in view and  
continue on the same course  
over a rolling grassy country  
to the foot of Min Mon hill  
and continue

6580

4372.2

To the U.S. Min Mon No 2  
Pima Elg. Dist. Pima, Coy. Ariz.

Survey commenced

July 12<sup>th</sup> 1885

Survey closed

July 12<sup>th</sup> 1885

Wm. J. Edwards  
U.S. Dep. Min. Sur.