

APR 28 1915

4-683.

Mineral Survey No. 3182

Lot No.

Arizona Land District.

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Calumet & Arizona Mining Co

KNOWN AS THE

Silica Queen No 1, Silica Queen No 2, Silica Queen No 3

Warren Mining District,

Cochise County, Arizona

Sections 11 & 14, Township 24 S, Range 25 E, G & S R B & M.

Surveyed under instructions dated April 8th, 1915,

by Ralph L. Motz,  
U. S. Deputy Mineral Surveyor

Claim located see location notices, 1

Survey commenced April 19th, 1915.

Survey completed April 21st, 1915.

o 6-160

Postoffice address of claimants attorney,

Cleon T. Knapp,  
Bisbee, Arizona.

## SILICA QUEEN NO 2.

Beginning at Cor No 1, the S W Cor, identical with location  
a pine post 4 ft long 4 ins sq set 18 ins in the ground in  
a mound of stones and scribed 1-3182 SQ2,

whence a quartzite ledge with 32 x 49 ins exposure and  
chiseled BR x 1-3182 brs N  $71^{\circ} 30'$  W 12.5 ft., and a  
second quartzite ledge with 18 x 23 ins exposure and like  
chiseling brs S  $6^{\circ} 45'$  W 13.55 ft., and the N W Cor of  
Sec 14, T 24 S, R 25 E, G & S R B & M brs N  $84^{\circ} 15' 30''$   
W 675.1 ft.

thence N  $37^{\circ}$  E

61.2 intersect the north line of the NW 1/4 of Sec 14, T 24 S,  
R 25 E, at S  $88^{\circ} 30'$  E 708.8 ft from the N W Cor, and N  
 $88^{\circ} 30'$  W 1764.2 ft from the 1/4 Cor,

304.0 to original location for west end center, being a mound  
of stones 3 ft high with a 3 ft base,

608.0 to Cor No 2, the N W Cor, identical with location,

a pine post 4 ft long 4 ins sq set 18 ins in the ground  
in a mound of stones and scribed 2-3182 SQ2,

whence a limestone rock 34 x 15 ins exposure and chiseled  
BR x 2-3182 brs S  $66^{\circ} 19'$  E 9.6 ft., and a quartzite rock  
with 12 x 20 ins exposure and like chiseling brs S  $61^{\circ} 20'$   
W 26.7 ft.

thence S  $43^{\circ}$  E

624.2 intersect the north line of the NW 1/4 of Sec 14, T 24 S,  
R 25 E, at S  $88^{\circ} 30'$  E 1463.8 ft from the N W Cor, and N  
 $88^{\circ} 30'$  W 1009.2 ft from the 1/4 Cor.,

1325.5 cross abandoned railroad grade,

1500.0 to Cor No 3, the N. E. Cor, identical with location and with  
Cor No 1 Silica Queen No 1 lode of this survey,

a pine post 4 ft long 4 ins sq set 18 ins in the ground  
in a mound of stones and scribed 3-3182 SQ2,

no bearing monuments available.

thence S  $37^{\circ}$  W

222.0 cross abandoned railroad grade,

300.0 to west end center Silica Queen No 1 lode of this survey,

304.0 to original location for east end center, being a mound  
of stones 3 ft high with a 3 ft base,

600.0 to Cor No 4 Silica Queen No 1 lode of this survey,

608.0 to Cor No 4, the S E Cor, identical with location

a pine post 4 ft long 4 ins sq set 18 ins in the ground in  
a mound of stones and scribed 4-3182 SQ2,

no bearing monuments available.

thence N  $43^{\circ}$  W

1500.0 to Cor No 1, the place of the beginning.



## SILICA QUEEN NO 1.

Beginning at Cor No 1, the N W Cor, identical with location and with Cor No 3 Silica Queen No 2 lode of this survey, heretofore described to which I add 1-3182 SQ1 for this claim. The N 1/4 Cor of Sec 14, T 24 S, R 25 E, G & S R B & M brs N 33° 50' E 739.2 ft.

thence S 53° 28' E

180.4 cross spur track of the El Paso & Southwestern Railway,

1493.4 to Cor No 2, the N E Cor, identical with location, and with Cor No 1 Silica Queen No 3 lode of this survey,

a pine post 4 ft long 4 ins sq set 18 ins in the ground in a mound of stones and scribed 2-3182 SQ1,

whence a limestone rock 15 x 7 x 9 ins high and chiseled BR x 2-3182 brs N 56° 18' E 46.7 ft., and a quartz rock 14 x 20 x 9 ins high with like chiseling brs S 48° 56' E 32.7 ft.

thence S 37° W

300.0 to original location for east end center, identical with west end <sup>center</sup> Silica Queen No 3 lode of this survey, being a mound of stones 3 ft high with a 3 ft base,

600.0 to Cor No 3, the S E Cor, identical with location and with Cor No 5 Silica Queen No 3 lode of this survey,

a pine post 4 ft long 4 ins sq set 18 ins in the ground in a mound of stones and scribed 3-3182 SQ1,

No bearing monuments available.

thence N 53° 28' W

1392.4 cross abandoned railroad grade,

1493.4 to Cor No 4, the S W Cor, identical with location, and situated on line 3-4 Silica Queen No 2 lode of this survey, at N 37° E 8 ft from Cor No 4,

a pine post 4 ft long 4 ins sq set 18 ins in the ground in a mound of stones and scribed 4-3182 SQ1,

whence a limestone rock in place 29 x 19 x 11 ins high and chiseled BR x 4-3182 brs N 47° 32' E 13.8 ft., and a quartzite ledge with 19 x 21 ins exposure and like chiseling brs N 8° W 40.5 ft.

thence N 37° E

296.0 to east end center Silica Queen No 2 lode of this survey,

300.0 to original location for west end center, being a mound of stones 3 ft high with a 3 ft base,

378.0 cross abandoned railroad grade,

600.0 to Cor No 1, the place of the beginning.

## SILICA QUEEN NO 3.

Beginning at Cor No 1, the N W Cor, identical with location and with Cor No 2 Silica Queen No 1 lode of this survey, heretofore described to which I add 1-3182 SQ3 for this claim. The N 1/4 Cor of Sec 14, T 24 S, R 25 E, G & S R

B & M brs N 27° 40' 30" W 1697.2 ft.

thence S 58° 44' E

652.4 to Cor No 2, the N E Cor, identical with location,

a pine post 4 ft long 4 ins sq set 18 ins in the ground in a mound of stones and scribed 2-3182 SQ3,

whence a quartzite ledge 24 x 14 ins exposure and chiseled BR x 2-3182 brs N 77° 24' W 41.0 ft., and a second quartzite ledge 6 x 12 ins exposure and like chiseling brs N 43° 27' E 21.85 ft.

thence S 37° W

300.0 to original location for east end center, being a mound of stones 3 ft high with a 3 ft base,

436.9 to Cor No 3, the S E Cor,

a pine post 4 ft long 4 ins sq set 18 ins in the ground in a mound of stones and scribed 3-3182 SQ3,

no bearing monuments available. The original location for the southeast corner brs S 37° W 163.1 ft.,

thence S 83° 24' W

264.4 to Cor No 4,

a pine post 4 ft long 4 ins sq set 18 ins in the ground in a mound of stones and scribed 4-3182 SQ3,

no bearing monuments available. The original location for the southeast corner brs S 58° 44' E 192.4 ft.

thence N 58° 44' W

460.0 to Cor No 5, the S W Cor, identical with location and with Cor No 3 Silica Queen No 1 lode of this survey, heretofore described to which I add 5-3182 SQ3 for this claim.

thence N 37° E

300.0 to original location for west end center, identical with east end center Silica Queen No 1 lode of this survey, heretofore described,

600.0 to Cor No 1, the place of the beginning.

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LODE LINES.

SILICA QUEEN NO 2.

The presumed course of the vein on this claim is from the east end center N 43° W 1500.0 ft.

SILICA QUEEN NO 1.

The presumed course of the vein on this claim is from the east end center N 53° 28' W 1493.4 ft.

SILICA QUEEN NO 3.

The presumed course of the vein on this claim is from the east end center N 58° 44' W 652.4 ft.



AREAS.

Total and net area of Silica Queen No 2- - - - - 20.618 A.  
 Total and net area of Silica Queen No 1- - - - - 20.570 A.  
 Total and net area of Silica Queen No 3- - - - - 8.583 A.

IMPROVEMENTS.

I certify that the value of the labor and improvements on each claim of this survey, placed thereon by the claimant or its grantors is not less than five hundred dollars, and that said improvements consist of:-

SILICA QUEEN NO 2.

- No.1. Discovery open cut 4 x 10 x 8 ft long brg. S 83° W, the face of open cut brs from east end center on lode line 300 ft. Value \$ 50.00
- No.2. Shaft 4 x 6 x 10 ft deep brs from a point on line 2-3 at S 43° E 600.0 ft, from Cor No 2, N 79° 40' W 153.0 ft. Value \$ 60.00
- No.3. Open cut 5 x 12 x 51 ft long, with tunnel 4 x 6 x 25 ft long brg S 57° 30' W, brs from Cor No 3 N 86° 50' W 245.0 ft. Value \$400.00
- No.4. Open cut 6 x 10 x 31 ft long, with tunnel 6 x 6 x 6 ft long brg N 35° W, the mouth of open cut brs from Cor No 4, North 242.0 ft. Value \$200.00

Total improvements \$710.00

SILICA QUEEN NO 1.

- No.1. Discovery open cut 4 x 10 x 10 ft long, brg N 63° 40' E, the face of open cut brs from west end center S 53° 28' E 530.0 ft. Value \$ 50.00
- No.2. Open cut 5 x 11 x 29 ft long brg N 63° 40' E the mouth of which brs from a point on lode line 5300 ft from north end center, S 63° 40' W 52.0 ft. Value \$150.00
- No.3. Shaft 4 x 6 x 15 ft deep brs from Cor No 1 S 27° 50' E 193.0 ft. Value \$100.00
- No.4. Open cut 80 ft wide, 30 ft high, 150 ft long brg S 31° E, the center of the mouth of open cut brs from Cor No 1 S 24° 03' E 312.0 ft. Value \$6700.00

Total improvements \$7000.00

SILICA QUEEN NO 3.

- No.1. Discovery open cut 4 x 10 x 11 ft long brg N 24° 30' E, the face of which brs from west end center on lode line 150 ft. Value \$ 50.00
- No.2. Open cut 5 x 10 x 28 ft long brg N 30° E, the mouth of which brs from west end center S 54° 36' E 180.0 ft. Value \$150.00
- No.3. Open cut 5 x 10 x 20 ft long, with tunnel in face 4 x 6 x 22.5 ft long brg N 41° E, the mouth of open cut brs from west end center S 54° 36' E 204.0 ft. Value \$375.00

Total improvements \$575.00

Total improvements on group \$8285.00

## ADJOINING CLAIMS.

North, East, South and West. Claims and claimants unknown. The main line of the E.P. & S.W. R.R. lies about 100 ft. south of and parallel to line 3-4 Silica Queen No. 3.

## LOCATION.

This survey is located in the Warren Mining District, Cochise County, Arizona, in Sections 14, Tp 24 S, R 25 E, G & S R B & M.

## INSTRUMENT.

This survey was made with a C. L. Berger & Sons Light Mountain transit. The courses were deflected from the true meridian as determined by a Solar observation. The distances were measured with a 300 ft steel tape. Magnetic variation 12° 30' East at all corners.

## REPORT.

See \* below.

*Raeph L. Motz*  
U. S. Mineral Surveyor.

Dated at Bisbee, Arizona.  
April 26th, 1915.

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\* Cor. for Secs. 10, 11, 14 and 15, T. 24 S., R. 25 E., is a sandstone rock 7 x 11 x 10 ins. high, chiseled 11 on E. face, 1111 on S. face. Monument of rocks 2 ft. high north of corner.

1Cor. between Secs. 11 and 14, is a limestone rock 6 x 10 x 12 ins. high, chiseled  $\frac{1}{2}$  on N. face. Monument of rocks west of corner.

# FINAL OATHS FOR SURVEYS.

## LIST OF NAMES.

A list of the names of the individuals employed by Ralph L. Motz  
 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  
Calumet & Arizona Mining Co  
 known as the Silica Queen No 1, Silica Queen No 2, Silica Queen No 3  
 and showing the respective capacities in which they acted.

A. S. Dawson....., *Chainman.*  
 ..... , *Chainman.*  
 ..... , *Arman.*  
 ..... , *Flagman.*

## FINAL OATHS OF ASSISTANTS.

~~xxx~~ I, A. S. Dawson  
~~xxx~~....., do solemnly swear that ~~we~~ <sup>I</sup> assisted  
Ralph L. Motz....., United States ~~Deputy~~ Mineral Surveyor, in marking the corners and surveying  
 the boundaries of the mining claim of  
Calumet & Arizona Mining Co  
 known as the Silica Queen No 1, Silica Queen No 2, Silica Queen No 3  
 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~~ <sup>my</sup> 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.....

A. S. Dawson....., *Chainman.*  
 ..... , *Chainman.*  
 ..... , *Arman.*  
 ..... , *Flagman.*

Subscribed and sworn to by the above-named persons before me this 23rd

day of April, 1915. ~~xxxx~~

Arch. L. LeRue  
 Notary Public in and for the County  
 of Cochise, State of Arizona.  
 My commission expires October 11, 1917.



FINAL OATH OF U. S. DEPUTY MINERAL SURVEYOR

I, Ralph L. Motz, U. S. Deputy Mineral Surveyor, do solemnly swear that, in pursuance of instructions received from the United States Surveyor General for Arizona, dated April 8th, 1915, 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 Calumet & Arizona Mining Co, known as the Silica Queen No 1, Silica Queen No 2, Silica Queen No 3, situate in Warren Mining District, Cochise County, Arizona, in Section 11 & 14, Township No. 24 S., Range No. 25 E., G. & S. R. B. & M, and designated as Survey No. 3182, 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 its 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.

Ralph L. Motz
U. S. Deputy Mineral Surveyor.

Subscribed and sworn to by the said Ralph L. Motz, U. S. Deputy Mineral Surveyor, before me J. W. Ross, Notary Public this 26th day of April, 1915.

J. W. Ross
Notary Public in and for the County of Cochise, State of Arizona.
My commission expires February 21st, 1916.



APR 8 - 1915

## NOTICE OF MINING LOCATION.

## LODE CLAIM.

TO ALL WHOM IT MAY CONCERN:

This Mining Claim, the name of which is the **Silica Queen No. 1** 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 J. H. Meyers & Alfred Paul Citizens, the undersigned, on the 24th day of January 1909

The length of this claim is 1500 feet and We claim 700 feet in a Southerly direction, and 800 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 South to the North

The claim is situated and located in the Warren Mining District, in Cochise County, in the Territory of Arizona, about 1 & 1/2 Miles in a Westerly direction from Silica Junction

The surface boundaries of the claim are marked upon the ground as follows: Beginning at Monument of Stones at a point in a South direction 700 feet from the discovery shaft (at which this notice is posted), being in the center of the South end line of said claim; thence 300 feet to a Monument of Stones, being the South East corner of said claim; thence 1500 feet to a Monument of Stones, being at the North East corner of said claim; thence 300 feet to a Monument of Stones at the center of the North end of said claim; thence 300 feet to a Monument of Stones, being at the North West corner of said claim; thence 1500 feet to a monument at the South 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 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 24th day of January 1909.

J. H. Meyers

Alfred Paul

Locators.

Filed and recorded at request of Ray Swain Apr 20 1909 at 11:47 A.M.  
and recorded in Book 44 Record of Mines, Page 260

STATE OF ARIZONA, )  
                                  : SS  
County of Cochise. )

I, Owen E. Murphy, County Recorder in and for the County and State aforesaid, DO HEREBY CERTIFY that I have compared the annexed and foregoing copy with the original Location Notice of the **Silica Queen No. 1** Mining Claim, filed in my office on the 20th day of April, A.D. 1909 at 11:47 A.M., and recorded in Book 44 Record of Mines, Page 260, and that the same is a full, true and correct copy of said original and of the whole thereof.

Given under my hand and seal of office, this the 3rd day of April, A.D. 1915.

Owen E. Murphy,

County Recorder.

By

*[Handwritten signature]*

Deputy.





APR 8-1915

## NOTICE OF MINING LOCATION.

## LODE CLAIM.

TO ALL WHOM IT MAY CONCERN:

. This Mining Claim, the name of which is the **Silica Queen No. 2** 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 J. H. Meyers & Alfred Paul, Citizens the undersigned on the 24th day of January 1909.

The length of this claim is 1500 feet and we claim 300 feet in a Southerly direction, and 1200 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 South to the North.

The claim is situated and located in the Warren Mining District, in Cochise County, in the Territory of Arizona, about 1 & 1/2 Mile in a Westerly direction from Silica Junction

The surface boundaries of the claim are marked upon the ground as follows: Beginning at Monument of Stone at a point in a South direction 300 feet from the discovery shaft (at which this notice is posted), being in the center of the South end line of said claim; thence 300 feet to a Monument of Stone, being the South East corner of said claim; thence 1500 feet to a Monument of Stones, being at the North West corner of said claim; thence 300 feet to a monument of stone at the center of the North end of said claim; thence 300 feet to a Monument of Stone, being at the North West corner of said claim; thence 1500 feet to a Monument of Stone at the Southwest 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 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 24th day of January 1909.

J. H. Meyers

Alfred Paul

Locators

Filed and recorded at request of Ray Swain Apr 20 1909 at 11:47 A.M.  
and recorded in Book 44 Record of Mines, page 261



STATE OF ARIZONA, )  
                          ) : SS  
County of Cochise. )

I, Owen E. Murphy, County Recorder in and for the County and State aforesaid, DO HEREBY CERTIFY that I have compared the annexed and foregoing copy with the original Location Notice of the **Silica Queen No. 2** Mining Claim, filed in my office on the 20th day of April, A.D. 1909 at 11:47 A.M., and recorded in Book 44 Record of Mines, Page 261, and that the same is a full, true and correct copy of said original and of the whole there of.

Given under my hand and seal of office, this the 3rd day of April, A.D. 1915

Owen E. Murphy

County Recorder.

By

*Gus M. Hall*

Deputy.





APR 8- 1915

## NOTICE OF MINING LOCATION.

## LODE CLAIM.

TO ALL WHOM IT MAY CONCERN:

This Mining Claim, the name of which is the **Silica Queen No. 3,** 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 Alfred Paul and J. H. Meyers, Citizens the undersigned, on the 15th day of April 1909.

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 South to the North.

The claim is situated and located in the Warren Mining District, in Cochise County, in the Territory of Arizona, about 1 1/2 mile in a Westerly direction from Silica Junction

The surface boundaries of the claim are marked upon the ground as follows: Beginning at Monument of Stone at a point in a South direction 1000 feet from the discovery shaft (at which this notice is posted), being in the center of the South end line of said claim; thence 300 feet to a Monument of Stone, being the South East corner of said claim; thence 1500 feet to a Monument of Stone, being at the North East corner of said claim; thence 300 feet to a Monument of Stone at the center of the North end line of said claim thence 300 feet to a monument of Stone, being at the North West corner of said claim; thence 1500 feet to a Monument of Stones at the South 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 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 15th day of April 1909.

Alfred Paul

J. H. Meyers

Locators.

Filed and recorded at request of Alfred Paul May 22 1909 at 9 A.M.  
and Recorded in Book 44 Record of Mines, Page 523.



STATE OF ARIZONA, )  
                                  : SS  
County of Cochise. )

I, Owen E. Murphy, County Recorder in and for the County and State aforesaid, DO HEREBY CERTIFY that I have compared the annexed and foregoing copy with the original Location Notice of the **SILICA QUEEN No. 3**, Mining Claim, filed for record in my office on the 22nd day of May, A.D. 1909 at 9:00 A.M., and recorded in Book 44 Record of Mines, Page 523, and that the same is a full, true and correct copy of said original and of the whole thereof.

Given under my hand and seal of office, this the 3rd day of April, A.D. 1915.

Owen E. Murphy,

County Recorder

By

*Geo M. Stiles*  
Deputy.





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

DEPARTMENT OF THE INTERIOR,  
OFFICE OF U. S. SURVEYOR GENERAL,

Phoenix, Arizona,

June 28, 1915.

I, U. S. Surveyor General for District of Arizona,  
do hereby certify that the foregoing transcript of the Field Notes, return and approval  
of the Survey of the mining claim of

CALUMET & ARIZONA MINING CO.

, known as the Silica Queen No. 1, Silica Queen No. 2,  
Silica Queen No. 3, situate in Warren  
Mining District, Cochise County,  
Arizona, in Sections 11 & 14, Township No. 24 S.  
Range No. 25 E., and designated as Survey

No. 3182, 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  
each of or improvements made upon said mining claims by claimant or its grantors, and  
that said improvements consist of 9 cuts, 2 shafts and 3 tunnels, total  
value \$8285.00

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,

June 28, 1915.

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

CALUMET & ARIZONA MINING CO.

....., known as the  
Silica Queen No. 1, Silica Queen No. 2, Silica Queen No. 3.

situate in Warren mining district,  
Cochise County, Arizona.

in Section s 11 & 14, Township No. 24 S., Range No. 25 E.

....., designated as Survey No. 3182

executed by Ralph L. Motz, U. S. ~~Deputy~~ Mineral

Surveyor, April 19-21, 1915, under my instructions dated

April 8, 1915, 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.



U. S. Surveyor-General for Arizona.