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(4-683.)

Mineral Survey No. 1299

Lot No. _____

Gila Land District.

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF Charles W. Welch,
assignee of Leonard Lewisohn

KNOWN AS THE

Mohawk Silver and Empire Lodes

Helvetia Mining District,

Pima County, Arizona

Section _____, Township T8 S, Range 16 E unsurveyed,

Surveyed under instructions dated June 30, 1898,

by George J. Roskruger,
U. S. Deputy Mineral Surveyor.

Claims located Mohawk Silver January 1st, 1888.

" " Empire January 1st, 1894. amended April 7, 1894.

Survey commenced July 5th, 1898.

Survey completed July 6th, 1898.

o 6-160

Address of Claimant. 81 Fulton St. New York, N.Y.
Address of Claimant's Attys; Messrs Hereford & Hazard,
Tucson, Arizona.

PRELIMINARY OATHS OF ASSISTANTS IN SURVEY OF MINING CLAIM.

W. William R. Winton and _____
do solemnly swear that ~~we~~ ^{we} will well and faithfully execute the duties of chain carrier; that ~~we~~ ^{we} will level the chain upon even and uneven ground and plumb the tally-pins, either by sticking or dropping the same; that ~~we~~ ^{we} will report the true distance to all notable objects, and the true length of all lines that ~~we~~ ^{we} assist in measuring, to the best of ~~our~~ ^{my} skill and ability, and in accordance with instructions given ~~us~~ ^{me}, in the survey of the Mining Claim of Charles W. Walsh assignee of Leonard Lewisohn, known as the Mohawk Silver and Empire Lodes situate in Helvetia mining district, Pima County, Arizona, in Section _____, Township No. _____, Range No. _____.

William R. Winton, Chainman.
_____, Chainman.

Subscribed and sworn to by the above-named persons before me this 5th day of July, 1898.

George J. Roskruege
Notary Public
my Commission expires Feb. 11, 1899.

I, Carlos P. Lopez - _____, do solemnly swear that I will well and truly perform the duties of axeman, 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 Lewis Lewisohn Charles W. Walsh assignee of Leonard Lewisohn known as the Mohawk Silver and Empire Lodes, more fully described in the preceding affidavit.

Carlos P. Lopez, Axeman.

Subscribed and sworn to by the said Carlos P. Lopez before me this 5th day of July, 1898.

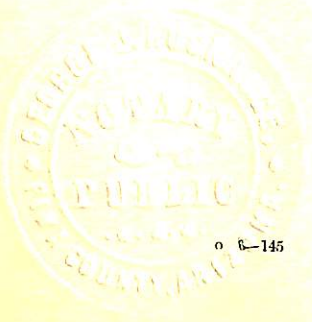
George J. Roskruege, Notary Public.
my Commission expires Feb. 11, 1899.

I, John C. Gard - _____, 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 Charles W. Walsh assignee of Leonard Lewisohn known as the Mohawk Silver and Empire Lodes, more fully described in the preceding affidavit.

John C. Gard, Flagman.

Subscribed and sworn to by the said John C. Gard before me this 5th day of July, 1898.

George J. Roskruege
Notary Public.
my Commission expires Feb. 11, 1899.



Feet.

Survey No. 1299.

Mohawk Silver Lode.

Beginning at Cor. No. 1.

Identical with Cor. No. 5. Empire lode of this survey.

A redwood post, 4 ft. long, 4 ins. square, set 18 ins. in the ground, with mound of stone, scribed 1-5-1299. whence

U. S. L. M., 1299, Helvetia Mining District, bears N. $18^{\circ}45'$ E. 2984 ft.An oak, 9 ins. diam., bears S. 8° E. 56 ft., and an oak, 11 ins. diam., bears S. $22^{\circ}15'$ E. 46 ft., each blazed and scribed B. T. 1-5-1299.Thence S. $61^{\circ}15'$ E.

Line runs along hill side sloping to the South, and on line 5-4 Empire lode of this survey.

300.

To Cor. No. 2.

Identical with Cor. No. 4. Empire lode of this survey.

A redwood post, 4 ft. long, 4 ins. square, set 18 ins. in the ground, with mound of stone, scribed 2-4-1299. whence

An oak, 6 ins. diam., bears S. $59^{\circ}15'$ W. 44.5 ft., and an oak, 14 ins. diam., bears N. $12^{\circ}30'$ W. 50.5 ft., each blazed and scribed B. T. 2-4-1299.

600.

To Cor. No. 3.

A redwood post, 4 ft. long, 4 ins. square, set 18 ins. in the ground, with mound of stone, scribed 3-1299. whence

Cor. No. 6. Altamont lode, Survey No. 1301, bears N. $60^{\circ}55'$ E. 1038 ft.A juniper, 26 ins. diam., bears S. 52° W. 11.5 ft., blazed and scribed B. T. 3-1299.Thence S. $11^{\circ}45'$ W.

Line runs along West side of a ridge bearing South.

Feet.

1500.

To Cot. No. 4.

A redwood post, 4 ft. long, 4 ins. square set 18 ins. in the ground, with mound of stone, scribed 4-1299. whence

An oak, 8 ins. diam., bears N. 80° 45' W. 77.5 ft., and an oak, 10 ins. diam., bears S. 62° 15' W. 68 ft., each blazed and scribed B. T. 4-1299.

Thence N. 61° 15' W.

Descending.

300.

To Cot. No. 5.

A redwood post, 4 ft. long, 4 ins. square, set 18 ins. in the ground, with mound of stone, scribed 5-1299. whence

A juniper, 15 ins. diam., bears S. 61° E. 17 ft., and an oak, 18 ins. diam., bears N. 27° E. 90 ft., each blazed and scribed B. T. 5-1299.

330.

Foot of descent, and rocky ravine, 20 ft. deep, flows S. 15° W.

600.

To Cot. No. 6.

A redwood post, 4 ft. long, 4 ins. square, set 18 ins. in the ground, with mound of stone, scribed 6-1299.

An oak, 8 ins. diam., bears N. 16° 30' W. 9.5 ft., and an oak, 8 ins. diam., bears S. 23° 15' W. 39.5 ft., each blazed and scribed B. T. 6-1299.

Thence N. 11° 45' E.

Over broken ground.

360.

Ravine, 15 ft. deep, flows S. 50° E, and ascend over broken ground.

1500.

To Cot. No. 1. the place of beginning.

Empire Lode.

Beginning at Cot. No. 1.

A redwood post, 4 ft. long, 4 ins. square, set 18 ins. in the ground, with mound

Feet. of stone, scribed 1-1299. whence
 W. S. L. M. 1299. bears N. $30^{\circ}20' E$. 1926 ft.
 An oak, 8 ins. diam., bears N. $36^{\circ}45' E$.
 9 ft. and an oak, 15 ins. diam., bears
 S. $31^{\circ}30' E$, each blazed and scribed
 B. T. 1-1299.

Thence S. $61^{\circ}15' E$.

Descending.

250. To Cor. No. 2.

A redwood post, 4 ft. long, 4 ins. square
 set 18 ins. in the ground, with mound
 of stone, scribed 2-1299. whence

An oak, 12 ins. diam., bears N. $27^{\circ}30' E$.
 26.5 ft., and an oak, 7 ins. diam., bears
 S. $35^{\circ} W$. 64 ft., each blazed and scribed
 B. T. 2-1299.

315. To Cor. No. 3.

A redwood post, 4 ft. long, 4 ins.
 square, set 18 ins. in the ground, with mound
 of stone, scribed 3-1299. whence

An oak, 14 ins. diam., bears S. $53^{\circ}30' W$.
 90 ft., and an oak, 10 ins. diam., bears
 S. $43^{\circ}30' W$. 86 ft., each blazed and
 scribed B. T. 3-1299.

Thence South

Line runs along East slope of hill.

1173.2 To Cor. No. 4

Identical with Cor. No. 2, Mohawk
 Silver lode of this survey. before described

Thence N. $61^{\circ}15' W$.

Line runs along hill side sloping to
 the south, and con 2-1 Mohawk Silver
 lode of this survey.

300. To Cor. No. 5. Identical with Cor. No. 1
 Mohawk Silver lode of this survey. before described

550. To Cor. No. 6.

A redwood post, 4 ft. long, 4 ins. square,
 set 18 ins. in the ground, with mound
 of stone, scribed 6-1299. whence

An oak, 12 ins. diam., bears S. $60^{\circ}45' E$, 52 ft.
 and an oak, 14 ins. diam., bears S. $56^{\circ} E$.
 39 ft., each blazed and scribed B. T. 6-1299.

Feet. Thence N. 11° E.
 1080. Ascending along East slope of hill.
 To Cot. No. 1. The place of beginning.

Variation at all corners of the
 Mohawk Silver and Empire lodes,
 12° 30' E.

~~The Empire lode is bounded on the East
 by the Jurata Lode, John B. Anderson, Claimant.
 There are no other adjoining claims.~~

Total area of the Mohawk Silver lode, 19.76 Acres.

Total area of the Empire lode, 10.21 "

Total area lode claim. 29.97 Acres.

The survey of the Mohawk Silver and
 Empire lodes are identical with the
 respective locations.

Ledges on lodes of this survey extend throughout
 Location. center of claim ^{resp}

This claim is located on the
 Eastern slope of the Santa Rita
 Mountains, in the Helvetia Mining
 District, Pima County, Arizona.
 and will, when the Public Land
 surveys are extended over this section
 of country be embraced in T. 18 S., R. 16 E.

Expenditure of One Thousand Dollars.

I certify that the value of the
 labor and improvements upon this
 claim, placed thereon by the claimant
 and his grantors, is not less than
 one thousand dollars, and that
 said improvements consist of:

No. 1. The discovery shaft of the
 Mohawk Silver lode which is on center
 line 246 ft. from post No. 2. 6 x 6 ft.,
 8 ft. deep in rock.

Value \$75.00

No. 2. A cut, the face of which
 is 52 ft. left of a point. 518 ft. on
 line running from post No. 2, through
 center of claim, 12 ft. wide, 15 ft. face,

running North, 15 ft. in earth and rock. At end of cut a shaft, 6 x 5 ft., 12 ft. deep in rock.

Value of cut and shaft, \$320.⁰⁰

No. 3. A shaft, 25 ft. left of a point 800 ft. on line running from post No. 2, through center of claim, 6 x 5 ft., 20 ft. deep in rock; from bottom of which a tunnel, 4 x 6 ft. running S. 5° 30' E. 12 ft. in rock.

Value of shaft and tunnel, \$300.⁰⁰

From bottom of shaft, a tunnel, 4 x 6 ft. running N. 5° 30' W. 97 ft. to breast in rock.

Value, \$750.⁰⁰

This tunnel is in course of construction for the development of this lode and the "Empire" lode of this survey, and an undivided half interest has been credited to each.

No. 4. An incline shaft, the mouth of which is 35 ft. left of a point 890 ft. on line running from post No. 2, through center of claim, 5 x 4 ft., 36 ft. deep in rock, course N. 83° E., dip 41°

Value, \$350.⁰⁰

EMPIRE LODGE

No. 1. The discovery shaft of the Empire lode, which bears from Cor. No. 3. N. 72° W. 10 ft., 4 x 6 ft., 4 ft. deep in earth and rock.

Value, \$5.⁰⁰

No. 2. An incline shaft, the mouth of which bears from Cor. No. 5. N. 36° 30' E. 231 ft., 5 x 5 ft., 8 ft. deep in rock, course N. 13° 30' E., dip 35°

Value, \$75.⁰⁰

No. 3. A shaft, which bears from Cor. No. 5, N. 68° 30' E. 255 ft., 5 x 5 ft., 14 ft. deep in rock.

Value, \$140.⁰⁰

No. 4. A cut, the face of which bears from Cot. No. 5. N. 71° 45' E., 185 ft., 14 ft. wide, 10 ft. face, running N. 30° E. 31 ft. in south and north. Value, \$200.00

Settlement.

This survey was made with a Stanley Light Mountain Transit. The courses were deflected from the true meridian as determined by direct solar observations. The distances were measured ^{with} a 100-ft. steel tape.

Range of ...

Field notes of the establishment of U. S. L. M. No. 1299, in the Helvetia Mining District, Pima County, Arizona.

On the summit of a prominent hill, on the Eastern slope of the Santa Rita Mountains, known as Andersons Hill. I set a pine post, 8 ft. long, 6 ins. square, 3 ft. in the ground, with mound of stone, 3 ft. high, 6 ft. base, marked U. S. L. M. No. 1299, cut in with chisel, 2 ins. long, $\frac{1}{4}$ in. deep. A nail driven in exact center of post for connection point. whence

An oak, 12 ins. diam., bears S. $4^{\circ}30'$ E. 481 ft., and an oak, 12 ins. diam., bears S. $14^{\circ}35'$ E. 587.5 ft., each blazed and scribed B. T., U. S. L. M. No. 1299 - a X scribed on each tree marks exact point of intersection.

Weigles Butte, or Old Put Peak, bears N. $9^{\circ}30'$ W. about one mile.

Harts Butte, bears N. $4^{\circ}30'$ E. about 7800 ft.

Mt. Fagan, bears N. $25^{\circ}45'$ E.

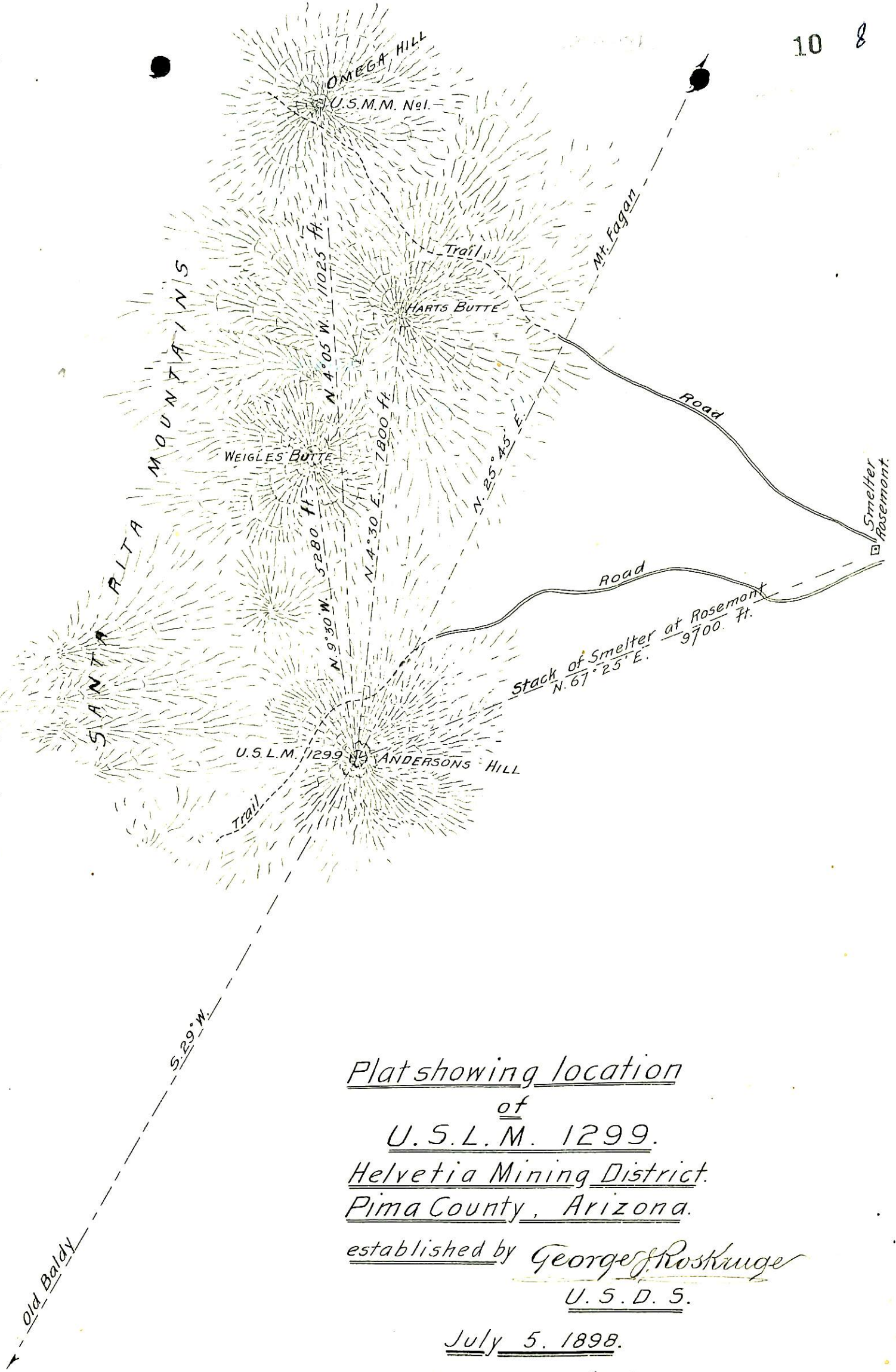
Stack of smelter at Rosemont, bears N. $67^{\circ}25'$ E. about 9700 ft.

U. S. M. M. No. 1, this District, on summit of Omega Hill, bears N. $4^{\circ}05'$ W. 11025 ft.

Old Baldy, or Mount Wrightson, the highest peak in the Santa Rita Range, bears S. 29° W.

Tucson, Arizona.
July 5. 1898.

George J. Roskrug
U. S. Dep. Min. Sur.



Plat showing location

of

U.S.L.M. 1299.

Helvetia Mining District.

Pima County, Arizona.

established by George Proskuge

U.S.D.S.

July 5, 1898.

Scale 2,000 ft. = 1 in.

FINAL OATHS FOR SURVEYS.

LIST OF NAMES.

A list of the names of the individuals employed by George J. Roskuge
 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 Charles W. Welch assignee of
Leonard Lewisohn
 known as the Mohawk Silver and Empire Lodes
 and showing the respective capacities in which they acted.

William R. Winton, Chairman.
 _____, Chairman.
Carlos P. Lopez, Axman.
John C. Gard, Flagman.

FINAL OATHS OF ASSISTANTS.

We, William R. Winton, Carlos P. Lopez
 and John C. Gard, do solemnly swear that we assisted George J.
Roskuge, United States Deputy Mineral Surveyor, in marking the corners and
 surveying the boundaries of the mining claim of Charles W. Welch assignee of
Leonard Lewisohn
 _____, known as the Mohawk Silver
and Empire Lodes, 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.

William R. Winton, Chairman.
Carlos P. Lopez, Axman.
 _____, Axman.
John C. Gard, Flagman.

Subscribed and sworn to by the above-named persons before me
 this 18th day of July, 1898.

George J. Roskuge
Notary Public
 My Commission expires Feb. 11, 1899.

(4-686.)

FINAL OATH OF U. S. DEPUTY MINERAL SURVEYOR.

I, George J. Roskruger, U. S. Deputy Mineral Surveyor, do solemnly swear that, in pursuance of instructions received from the United States Surveyor General for Arizona, dated June 30th, 1898, 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 Charles W. Welsh assignee of Leonard Lewisohn, known as the Mohawk Silver and Empire Lodes, situate in Helvetia Mining District, Pima County, Arizona, in Section _____, Township No. 16 S., Range No. 16 E. Unsurveyed, and designated as Survey No. 1299, 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 his 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.

George J. Roskruger
U. S. Deputy Mineral Surveyor.

Subscribed and sworn to by the said George J. Roskruger
U. S. Deputy Mineral Surveyor, before me H. D. Underwood a Notary Public in and for Pima Co. Arizona this 20th day of July, 1898.

H. D. Underwood
Notary Public

MY COMMISSION EXPIRES JULY 12 1899

one thousand
Affidavit of Five Hundred Dollars Improvements.

We William Shaw and Charles C. Holmes

of lawful age, being first duly sworn according to law, depose and say: that we are acquainted with the mechanic's belief and copper lode mining claim, situated in

Holbrook Mining district, Perma County, Arizona Territory, for which Charles W. Walsh, assignee of Leonard Tenison by Messrs

Hereford and Hazzard his attys

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 his grantor exceed one thousand Five Hundred Dollars in value, and further that we are not personally interested in said mines,

William Shaw
Charles C. Holmes

TERRITORY OF ARIZONA, }
County of Perma } ss.

SWORN to and subscribed before me, this
29th day of July 1892.

George J. Roskruge, notary Public.
my Commission expires 11 Feb. 1899.

Printed and for sale by the Citizen Printing & Publishing Co., Tucson.

Notice of Location. Notice

Notice is Hereby Given That the undersigned, in compliance with the requirements of the Mining Act of Congress, approved May 10th, 1872, has ^{on} this day located and claim ^{fifty (50)} hundred linear feet along the course of this lead, lode or vein of mineral-bearing quartz, ^{and 300} feet in width on each side of the middle of said lead, lode or vein, situate in the ^{Helena} Mining District, County of ^{Pima} Arizona, and more particularly described as follows, to wit:

Commencing at this monument of stones, being the center of the ^{North} end of the claim, and upon which this notice is posted; thence ^{East by 300} feet to a monument of stones; thence ^{North by 1500} feet to a monument of stones; thence ^{West by 300} feet to a monument of stones, being the center of the ^{North} end of claim; thence ^{West by 300} feet to a monument of stones; thence ^{North by 1500} feet to a monument of stones; thence ^{East by 300} feet to place of beginning.

THIS CLAIM ^{is located on the Eastern slope} of the ^{Santa Rita} Mountain ^{about 1/2 mile} North of what is known as ^{J. S. Young's} Spring, and the ^{North} middle ^{of said} claim joins the ^{Southern} end of the ^{J. S. Young's} Mining Claim and shall be known as the ^{Mohawk Silver} Mine.

LOCATED ^{January 1st} 189 ⁸⁸.

^{Wm. H. Williams}
^{Not a Partner}

Filed and recorded at request of ^{Wm. H. Williams} ^{Not a Partner}
A. S. ^{at 11 A.M.}
^{Wm. H. Williams}
^{County Recorder}

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

I, **Chas. A. Shibell**, 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 the location

Certificate of the Mohawk Silver Mining Claim

as appears of record now in my office in book *Z*, *Records of Mines* pages *453*

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, at my office in Tucson, this *24th* day of *May*

A. D., 189*8*

Chas. A. Shibell
 County Recorder.

LOCATION NOTICE.

Notice is hereby given that the undersigned has located and claimed 1500 feet in length and 600 feet in width on this lead load or vein of mineral bearing quartz. Beginning at this monument of stones and notice running 750 feet Northerly to a monument of stones in center of the claim and 750 feet Southerly to a monument of stones in the center of the claim together with monuments of stones on each corner of claim, claiming all the rights and privileges granted by the laws of the United States. This claim is a relocation of the Buckhorn Mine, and shall be known as the Empire Mine, this mine is the North Extension of the Mohawk Copper Mine. Located January 1st, 1894.

Locater Geo B. Ross.

Filed and recorded request Wm. Shaw. Feby 8th 1894 at 9 A.M.

Chas. A. Shibell

County Recorder.

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

I, **Chas. A. Shibell**, 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 the Location.....

Certificate of the Empire Mining Claim

as appears of record now in my office in book *X Record of Mines* pages *786*

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official

seal, at my office in Tucson, this *24th* day of *May*

A. D., 189*8*

Chas. A. Shibell
County Recorder.

EMPIRE.

AMENDED LOCATION NOTICE.

Notice is hereby given that the undersigned, in compliance with the requirements of the Mining Act of Congress, approved May 10th, 1872, has located and claims fifteen hundred linear feet along the course of this lead, lode or vein of mineral bearing quartz, and 300 feet in width on each side of the middle of said lead, lode or vein, situate in the Helvetia Mining District, County of Pima, Arizona, and More particularly described as follows, to wit:

Commencing at this monument of stones, being the center of the Northerly end of claim, and upon which this notice is posted; thence Westerly 300 feet to a monument of stones; thence Southerly 1500 feet to a monument of stones; thence Easterly 300 feet to a monument of stones, being the center of the Southerly end of claim; Thence Easterly 300 feet to a monument of stones; thence Northerly 1500 feet to a monument of stones; thence Westerly 300 feet to place of beginning. There is also a monument of stones in the center of the claim, in which the original location notice was posted.

This claim is situated on the Eastern Slope of the Santa Rita Mountains, is the North Extension of the Mohawk ~~Silver~~ Mine, is a re-location of the Buckhorn Mine, and is known and shall be known as the EMPIRE Mine; being the same claim of which the original Location Notice (made by George B. Ross) is recorded in the Office of the Recorder of said Pima County, in Book X, Records of Mines, at page 786.

This amended notice is made without waiver of any previous rights for the purpose of correcting the description of said claim in said original Location Notice, (which was defective), and is intended to cover the same claim as originally located and marked upon the ground.

Date of said original location, April 7th, 1894.

Date of this amended Location Notice, May 13th, 1898.

Leonard Lewisohn

Filed and recorded at request of S.E. Hazzard, May 16, 1898, at 4 P.M.

Chas. A. Ghibell

County Recorder.

Territory of Arizona, }
County of Pima. } ss.

I, Chas. A. Shibell, 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 the Amended
Location Certificate of the Empire Mining
Claim

as appears of record now in my office in book *FF Record of Mines* pages *738*

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official
seal, at my office in Tucson, this *24th* day of *May*
A. D., 189*8*

Chas. A. Shibell
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,

Tucson, Arizona

October 1st, 1898.

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 Charles W. Welsh,
assignee of Leonard Cuisinier

....., known as the Mohawk Silver & Empire Lodes,

situate in Helvetia mining district,
Pima County, Arizona,

in Section, Township No. 18 S., Range No. 16 E. unsurveyed
....., designated as Survey No. 1299

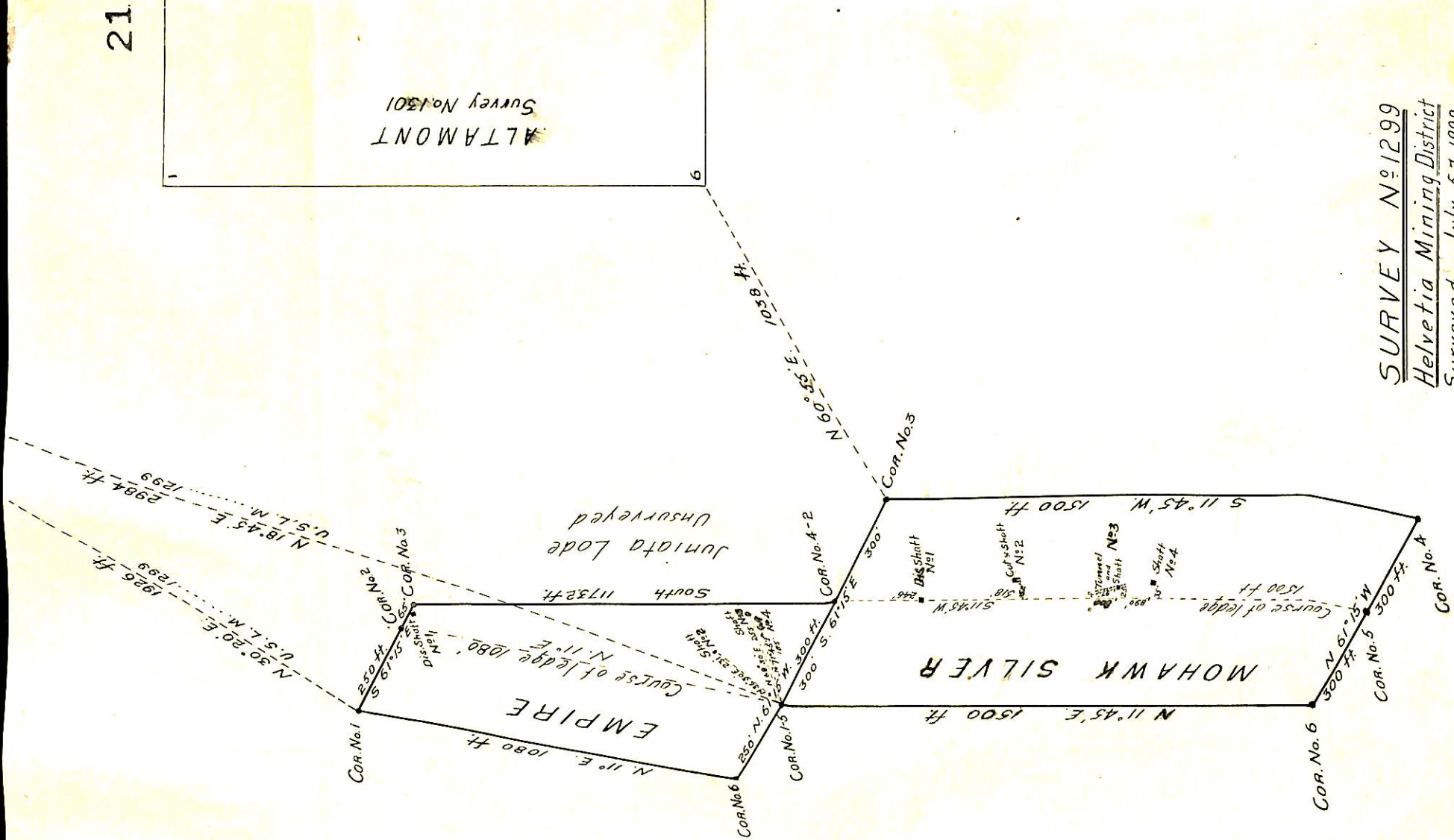
executed by George J. Roskrige, U. S. Deputy Mineral Surveyor,
July 5th, 1898, under my instructions dated June 30th, 1898, have been critically examined and the

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.

George Christ

U. S. Surveyor General for Arizona.

ALTA MONT
Survey No. 1301



SURVEY No. 1299
Helvetia Mining District
Surveyed July 5-7, 1898
 by George J. Posthugge
U.S. Dep. Minn. Surveyor.

Scale 400 ft = 1 in.