

4-683

UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

MINERAL SURVEY NO. 4273

Arizona Land District.

FIELD NOTES

Of The Survey Of The Mining Claim Of

Louis Juchem and Rudolf Juchem

Known As The

ARIZONA AMETHYST PLACER

Four Peaks

Mining District,

Maricopa

County,

Arizona

Approx.

Section 21, Township 4 N., Range 10 E., unsur.
G. & S. R. M.

Surveyed under instructions dated July 8, 1943

by Ralph L. Motz
Mineral Surveyor.

Claim located October 15th, 1928

Survey commenced February 8, 1944

Survey completed February 11, 1944

Address of claimant's attorney, John F. Connor, 516 Heard Bldg.,
Phoenix, Arizona.

DATES OF AMENDED LOCATIONS

July 3, 1943.

Feet

Mineral Survey No. 4273 was made with a C. L. Berger & Sons precise transit, with horizontal limb 6.25 inches in diameter, having double opposite verniers, and full vertical circle 5 inches in diameter, having one double vernier; the verniers read to one minute of arc; the eye piece is equipped with a colored glass slide in a prismatic eye piece for making direct observations upon the sun. The instrument was in good condition at the time of survey and all adjustments were in good order. A. p. m. altitude observation of the sun for azimuth, and at noon on the meridian for latitude, were made at Cor. No. 1, the details of which observations are shown in the calculation sheets submitted herewith for examination. All azimuths in this record are referred to the true meridian thus determined, by the method of deflection angles and calculated courses.

The lines were measured with a Keuffel & Esser steel tape, 100 feet in length, graduated to feet, tenths and hundredths of feet for the entire length; a Keuffel & Esser steel tape, 300 feet in length, graduated to feet, tenths and hundredths of feet for the entire length; a Lufkin steel tape, 25 feet in length, graduated to feet, inches and fractions of inches for the entire length. All tapes were compared with a Lufkin standard tape at the time of beginning the survey and found correct.

All lines and connections of this survey were run by direct methods.

The magnetic variation observed at each corner of the survey gave a uniform value of $13^{\circ} 15' E.$,

ARIZONA AMETHYST Placer.

Beginning at Cor. No. 1 of the Arizona Amethyst placer

A quartzite rock in place, 19x25 ins., 8 ins. above ground, mkd. AA-1-4273; from which

U. S. L. M. No. 4273 Four Peaks Mining District bears $N. 85^{\circ} 149' E. 591.6$ ft., being a cross on flat top of high quartzite cliff, also mkd. U.S.L.M.No.4273

A monument of rocks, 3 ft. high, 3 ft. base bears northerly four feet.

A red cedar tree, 8 ins. diameter, 20 ft. high, blazed and mkd. BT AA-1-4273 bears $S. 47^{\circ} 15' E., 12.6$ ft.

A quartzite boulder 79x100 ins., 71 ins. high bears $N. 33^{\circ} 20' E., 26.8$ ft., mkd. BR X AA-1-4273

thence $N. 1^{\circ} 43' W.,$

567.0 Cross Amethyst Gulch, 10 ft. wide, course westerly

600.0 Cor. No. 2

A quartzite rock in place, 15x15 ins., 18 ins. above ground, mkd. AA-2-4273; from which

A monument of rocks, 4 ft. high, 3 ft. base, bears southerly 4 ft.

A schist rock in place, 54x65 ins., 15 ins. above ground, bears North 4.0 ft., mkd. BR X A A-2-4273

thence $N. 8^{\circ} 17' E.$

Mineral Survey No. 4275 - Arizona

Feet	
880.0	Cross trail, 2 ft. wide, course northwesterly
1320.0	Point for Cor. No. 3, inaccessible due to sheer walls of quartzite cliffs forming the peaks of the Four Peaks thence S. 1° 43' E.,
130.0	Witness corner for Cor. No. 3 the east face of a quartzite cliff, 10x20 ft., mkd. WC AA-3-4273; from which a monument of rocks, 3 ft. high, 3 ft. base bears easterly 3 ft.
145.0	Cross Amethyst Gulch, 3 ft. wide, course westerly
600.0	Cor. No. 4 Due to the extreme steepness and height of the quartzite cliffs forming the crest of the Four Peaks, this point is inaccessible thence S. 88° 17' W.,
273.0	Witness corner for Cor. No. 4 The south face of a quartzite cliff, 20 ft. wide, 50 ft. high, mkd. WC X AA-4-4273; from which a monument of rocks, 3 ft. high, 3 ft. base, bears westerly 3 ft.
752.0	Cross trail, 2 ft. wide, course northerly.
1320.0	Cor. No. 1 and place of beginning.

	AREA	acres
Total area		18.182
Total Arizona Amethyst Placer		18.182

LOCATION

This survey is situated in approx. Sec. 21, T. 4 N., R. 10 E., unsur., in the Tonto National Forest.
The survey of this placer is identical with the amended location as marked on the ground.

EXPENDITURE OF \$500

I certify that the value of the labor and improvements made upon this placer location by the claimants or their grantors is not less than \$500, and that said improvements consist of:-

- No. 1 The discovery cut of the Arizona Amethyst Placer, the mouth of which bears N. 46° 43' W., 423 ft. from Cor. No. 4; 8 ft. wide, 20 ft. face, running N. 88° E., 40 ft. to face
Value \$800

The surface of the ground has been cleared within the circle marked on the map as area of excavation. Trenches and open cuts were made within this area but have been filled again with debris from the excavations. This area of excavation is about 100 ft. in diameter, the mouth of the discovery cut being on its western edge.

Considerable work has been done on the trail from the camp to the mine, and each year more work has to be done to keep the trail open.

Value - not known.

OTHER IMPROVEMENTS.

Juchem's Camp is a recess at the foot of a high quartzite cliff, 8 ft. high, 8 ft. wide and 15 feet long.

Mineral Survey No. 4273 - Arizona.

ESTABLISHMENT OF U.S.L.M. NO. 4273.

The nearest public land corner to Mineral Survey No. 4273 is about 10 miles to the north. There have been no other mineral surveys in the Four Peaks Mining District. Therefore it was necessary to establish a location monument for this survey.

This is situated on the top of a high quartzite cliff just east of the main trail and about 50 feet south of the Juchem Camp. This cliff forms part of the series of cliffs leading to the crest of the Four Peaks about 1000 feet to the east.

The face of the cliff is 50 feet high and faces the west. It is situated about the center of the west slope of the South Peak.

The location of U. S..L.M. No. 4273 commands a view of all of the Four Peaks District to the southwest, west and northwest and is within two miles of several groups of mining claims lying on down the west slope.

The position of U.S.L.M. No. 4273 is shown on the Roosevelt Quadrangle Topographic Sheet of the U. S. Geological Survey which accompanies this report.

X U S L M No 4273 chiseled on the top of quartzite cliff, 6x12 ft. on top, 50 ft. high on west side. Monument of rocks, 6ft. diam, 5 ft. high bears easterly 15 ft.

Mc Dowell Peak bears S. 66° 43' W., 23.5 miles.

Highest point of Camelback Mountains bears S. 73° 51' W., 40 miles.

Windmill at Hughes' Cottonwood Ranch bears S. 63° 05' W., 7.5 miles. (On the Roosevelt Quadrangle this is shown as Stewarts Camp).

UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

FINAL OATHS FOR SURVEYS

LIST OF NAMES

A list of the names of the individuals employed by Ralph L. Motz

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 Louis Juchem and Rudolf Juchem

known as the ARIZONA AMETHYST Placer

and showing the respective capacities in which they acted.

Raul Martinez, Chairman.

....., Chairman.

Frank Chavez, Axman.

....., Flagman.

FINAL OATHS OF ASSISTANTS

We, Raul Martinez

and Frank Chavez, do solemnly swear that we assisted Ralph L. Motz

....., United States Mineral Surveyor, in marking the corners and surveying

the boundaries of the mining claim of Louis Juchem and Rudolf Juchem

known as the ARIZONA AMETHYST Placer,

represented in the foregoing field notes as having been surveyed by said 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 Office Cadastral Engineer, at Phoenix, Arizona.

Raul Martinez, Chairman.

....., Chairman.

Frank Chavez, Axman.

....., Flagman.

Subscribed and sworn to by the above-named persons before me this 12th

day of February, 1944

W N Miescher

Notary Public, in and for the County of
Cochise, State of Arizona.

My commission expires February 3, 1945.

DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

FINAL OATH OF U. S. MINERAL SURVEYOR

I, Ralph L. Motz, U. S. Mineral Surveyor,
do solemnly swear that, in pursuance of instructions received from the Office Cadastral
Engineer, at Phoenix, Arizona, dated July 8, 1943,
I have, in strict conformity to the laws of the United States, the official regulations
and instructions thereunder, and the instructions of said Office Cadastral Engineer,
faithfully and correctly executed the survey of the mining claim of
Louis Juchem and Rudolf Juchem, known as the
ARIZONA AMETHYST Placer,
situate in Four Peaks Mining District,
Maricopa County, Arizona, in Section
21 (Approx), Township No. 4 N., Range No. 10 E., (Unsur)
G. & S. R. M.
and designated as Survey No. 4273, 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 Office Cadastral Engineer
with said instructions, and that all 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 im-
provements made upon said mining claim by claimants or their
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 in-
cluded in the estimate of expenditures upon any other claim.

Ralph L. Motz
(U. S. Mineral Surveyor.)

Subscribed and sworn to by the said Ralph L. Motz
U. S. Mineral Surveyor, before me W. H. Miescher, Notary Public
this 12th
day of February, 1944

W. H. Miescher
Notary Public, in and for the County
of Cochise, State of Arizona.
My commission expires February 3, 1945

4-694.

Title Page to Report under Paragraph ¹⁶⁷~~30~~, Mining Circular, Approved ^{April 11, 1922.}~~May 21, 1907~~

REPORT

Under paragraph ¹⁶⁷~~30~~, General Mining Circular, approved ^{April 11, 1922}~~May 21, 1907~~, upon the Placer Mining Claim

known as the ARIZONA AMETHYST

....., claimed by

Louis Juchem and Rudolf Juchem

situate in Four Peaks Mining District

Maricopa County, Arizona, embracing

~~approximately Eighteen and eight tenths one hundredths~~ 18.182 acres
~~acres thereof;~~

in Sec. 21 (Approx), Town. 4 N., Range 10 E., (unsur)
G. &. S. R. M.

Examination made Feb. 8-11, 19 44

By Ralph L. Motz

~~Mineral~~ Mineral Surveyor.

Mineral Survey No. 4273 - Arizona.

Report.

The Arizona Amethyst Placer claim is located on the west slope near the top of the Four Peaks Range. It lies partly on South Peak and partly on the next peak north. The slope is exceedingly steep. The center line of the claim follows a ridge whose slope to the west runs from 24° to 30°. The slope from the west center to the northwest is down to the gulch at 27°. From the main workings east the ground is precipitous and rises abruptly up steep cliffs to the crest.

A There seems to be an abundance of good soil interspersed with huge boulders of quartzite. The ground is covered with a dense growth of manzanita, scrub oak, stunted cedars and other small trees typical of the mountains of Arizona. There is also a wide variety of cactus. None of the timber is of commercial quality. The cost of road to take out the small timber would be prohibitive.

B There are no streams on the property. Amethyst Gulch is a typical Arizona mountain gulch with no live water. Heavy floods in the rainy season bring down large rocks but the gradient is so steep that the water does not have a chance to settle. C. See G herein.

D The nearest residence of any kind to the property is the Hughes' Cottonwood Ranch which is 7 1/2 miles by air line and 12 miles by trail in a south westerly direction. From there it is 7 miles to the Bush Highway and then 26 miles to the main highway U. S. 80, and then 8 miles to Mesa, the center of trade.

E The nearest system of lode deposits to the claim is one mile to the west, and this system of veins runs north and south paralleling the end of the placer claim.

F The deposit on the Amethyst Placer is valuable for the crystals of amethyst, a gem stone. This type of mining does not require much water, only for domestic purposes. This is obtained from a spring about 200 feet south of the south side line of the placer.

H There are no lode mining claims, salt liks, salt springs, springs of fresh water, mill sites or any other property within a mile of this claim.

G There has been a considerable amount of work done on this property by the claimants and their grantors. The main workings consist of an open cut 8 ft. wide, 20 feet high and 40 feet long located N. 46° 43' W., 423 ft. from Cor. No. 4; and a considerable amount of excavation around this improvement; most of which has been covered with debris from such excavations. A considerable amount of money has been spent on building and maintaining a trail. The value of the gem stones obtained from this claim is not known to me but is said to be way up in the thousands of dollars.

Ralph R. Mohr

Mineral Surveyor, G.L.O.

OATH OF UNITED STATES MINERAL SURVEYOR

Under paragraph 167, General Mining Circular, approved ~~March 29, 1922~~ April 11, 1922.

I, Ralph L. Motz, U. S. Mineral Surveyor, do solemnly swear that in pursuance of an order received from the U. S. Surveyor General for Arizona, dated July 8, 1943, I have made, under the provisions of paragraph 167, General Mining Circular, approved ~~March 29, 1922~~ April 11, 1922, a personal and thorough examination, upon the premises, of the placer mining claim of Louis Juchem and Rudolf Juchem

known as the ARIZONA METHYST situate in Four Peaks Mining District, Maricopa County, Arizona, embracing approximately Eighteen and eighteen one hundredths (18.18) acres thereof,

situated in Sec. 21 (Approx) in Township No. 4 N., Range No. 10 E. (Unsur), and that my report of such examination, hereto attached, is specific and in detail, and is a full and true statement of the facts upon all the points specified in the paragraph referred to.

Ralph L. Motz
U. S. Mineral Surveyor.

Subscribed and sworn to by the said Ralph L. Motz, ~~xxx~~ Mineral Surveyor, before me W. H. Miescher, Notary Public this 14th day of February, 1944

W. H. Miescher

Notary Public, in and for the County of Cochise, State of Arizona. My commission expires Feb. 3, 1945.

CORROBORATIVE AFFIDAVIT UNDER PARAGRAPH ¹⁶⁷ ~~106~~ GENERAL MINING CIRCULAR.

APPROVED ~~XXXXXXXXXX~~

April 11, 1922.

State of Arizona
COUNTY OF Maricopa } ss.

Henry W. Laub and

being first duly sworn, severally depose and say that he is personally and well acquainted with the placer-mining claim of Louis Juchem and Rudolf Juchem

, known as the ARIZONA AMETHYST

, situate in

Four Peaks Mining District.

Maricopa County, Arizona, embracing

approximately Eighteen and eighteen one hundredths (18.18) acres thereof,

in Sec. 21 (Approx), in Township No. 4 N.,

Range No. 10 E (Unsur) G&SRM; and also with the character of all the land included in said claim, and has been so acquainted for six (6) years last

past; that his knowledge of said claim and land is derived from personal knowledge of the claim and its character derived by working on the claim and by virtue of owning claims adjacent to the area and is such as to enable

him to testify understandingly with regard thereto; that he has carefully read the foregoing report of Ralph L. Motz ~~XXX~~ Mineral Surveyor, and

that to his own personal knowledge said report is in all respects true and accurate.

Henry W. Laub
Henry W. Laub

Subscribed and sworn to by the above-named person before me this 28th day of February, 1944.

Ann Steinberg
Notary Public
April 9, 1944
My Commission Expires

OFFICE CADASTRAL ENGINEER'S FINAL CERTIFICATE ON FIELD NOTES

United States
Department of the Interior
GENERAL LAND OFFICE
PUBLIC SURVEY OFFICE

Phoenix, Arizona

April 5, 1944

I, Office Cadastral Engineer at Phoenix, Arizona

do hereby certify that the foregoing transcript of the Field Notes, return and approval of the survey of the mining claim of Louis Juchem and Rudolf Juchem

known as the ARIZONA AMETHYST PLACER

situate in Four Peaks

Mining District Maricopa County Arizona

Approx. 21 in Section, Township No. 4 N., Range No. 10 E. (Unsur.) G. & S.R.M., and

designated as Survey No. 4273, 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.

I further certify that Five Hundred Dollars worth of labor has been expended or improvements made upon, or for the benefit of, each location embraced in said mining claim by claimants or their grantors, and that said improvements consist of

1 cut value \$800.00

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 District Land Office at Phoenix,

Arizona is correct and in conformity with the foregoing Field Notes.

E. A. Thompson
Office Cadastral Engineer.

CERTIFICATE OF APPROVAL OF FIELD NOTES AND SURVEY OF
MINING CLAIM

UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE
PUBLIC SURVEY OFFICE

At Phoenix, Arizona

..... April 5, 1944

I, Office Cadastral Engineer at Phoenix, Arizona

do hereby certify that the foregoing and hereto attached Field Notes and Return of the Survey of the
Mining Claim of Louis Juchem and Rudolf Juchem

....., known as the

..... ARIZONA AMETHYST PLACER

situate in Four Peaks mining district,

..... Maricopa County, Arizona

in Section 21 (Approx), Township No. 4 N., Range No. 10 E. (Unsur.)

G. & S. R. M., designated as Survey No. 4273

executed by Ralph L. Motz, Mineral

Surveyor, February 8 to 11, 1944, under my instructions dated

July 8, 1943, 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. The certified copy of the location certificate filed by the applicant for survey is

on file in this office and a true copy of said certified copy of said location certificate is included and

made a part of the transcript of the field notes.

E. A. Thompson
Office Cadastral Engineer.