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LOT NO. 74

SURVEY NO. 613

Field Notes

of the survey of the

"Chalkos"

Mining Claim

Situate in Copper Mountain mining district.

County of Graham and in Sec. app²¹rox, Tp. 7S

Range 29E., of the Gila and Salt River Meridian.

ARIZONA.

Claimed by William Church

Survey executed by E. W. Richards U S D. S.

Under instructions dated February 13 1884

Survey commenced " 17 1884

Survey completed " 17 1884

PRELIMINARY OATHS

FOR SURVEYS OF MINING CLAIMS AND MILL SITES.

WE, *Samuel Klett* and *A. E. Davison*

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.

Samuel Klett

A. E. Davison

SWORN to and subscribed before me, this *17th* day

of *February* 188*4*

C. B. Frink
Notary Public in & for
Erskine Co. Oregon

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

SWORN to and subscribed before me, this _____ day

of _____ 188 _____

Sheet

Field Notes

of the survey of the
"Chalkos" Mining Claim
 in the Copper Mountain Mining District

Graham County Arizona -
Claimed by William Church

Surveyed by G. W. Richards
U.S. Deputy Mineral Surveyor
under instructions from the Surveyor
General - of date February 13th 1884 -

Survey Commenced February 17th 1884
" Completed " " "

Description of Survey

Not knowing of any U.S. Mineral Monu-
ment within two miles of the
"Chalkos" Mining claim - I established
one on the Copper Mountain Mining
Claim - by planting a pine post
10 ft long 4" x 4" - firmly in the ground
and surrounded the same by a mound
of stone 6' x 6' at base and 5' high -
which I marked - U.S.M.M.N° IV. C.M.M.D.
from which the

N.E. Corner Copper Mountain Mining claim bears
 $N 87\frac{1}{2}^{\circ} E - 476 \text{ ft.}$

Corner N° 111 - "Chalkos" Mining claim
 bears $S 25\frac{1}{2}^{\circ} W -$

Corner of stone Detroit Copper Mining Co.
 bears $N 21^{\circ} W -$

Corner of office Detroit Copper Mining Co.
 bears $N 27^{\circ} W -$

Two hoisting works in line -
 bear $N 40\frac{3}{4}^{\circ} W -$

Prominent sharp peak
Bears $S 68^{\circ} W$ -
Entrance to cañon in sight
Bears $S 58\frac{1}{2}^{\circ} E$ -

Beginning at the initial monument
mentioned in location notice and
marking the north east center end of
claim, where I set a pine post 4 ft
long $4" \times 4"$ - $1\frac{1}{2}$ ft in ground - and sur-
rounded same with mound of stones

Post-marked C. I. M. N. 1.

Thence $N 47\frac{3}{4}^{\circ} W$

Var $13^{\circ} E$

100 Descend to center of gulch - bears N and S

300 Ascend to N.E. corner Copper Mountain
Mining claim - ^{Lot No 37 A} where I set a pine
post, 4 ft long $4" \times 4"$ - $1\frac{1}{2}$ ft in ground
and surrounded same with mound of
stones - Post-marked C. N. 11. from which
U.S.M.M. N. 1. C.M.M.D. bears $S 87\frac{1}{2}^{\circ} W$ - 476 feet -

Thence $S 42\frac{1}{4}^{\circ} W$

Var $13^{\circ} E$ -

600 To S.E. corner Copper Mountain Min-
ing claim - Lot No 37 A

780 Descend to center of cañon and road.
Bears E and W-

1500 Ascend to point where I set a pine post
4 ft long $4" \times 4"$ - $1\frac{1}{2}$ ft in ground and
surrounded same with mound of stones
Post-marked C. N. 111.

Original location monument bears $S 42\frac{1}{4}^{\circ} W$
- 15 feet -

U.S.M.M. N. 1. C.M.M.D. bears $N 25\frac{1}{2}^{\circ} E$ -

Thence $S 47\frac{3}{4}^{\circ} E$ -

Var $13^{\circ} E$ -

160 Descend to center of gulch

300 Ascend to the S.W. center of claim
where I set a pine post - 4 ft long
 $4" \times 4"$ - $1\frac{1}{2}$ ft in ground and surrounded
the same with mound of stones

Post-marked C. N. 14.

Thence $S 47\frac{3}{4}^{\circ} E$ -
 Var $13^{\circ} E$ -

300 Ascend to a point where I set a
 pine post 4 ft long $4" \times 4"$ - $1\frac{1}{2}$ ft in
 ground - and surrounded same with
 mound of stones -

Post marked C. N^o V.

Original location monument bears $S 42\frac{1}{4}^{\circ} W$
 14 feet -

Smelter site bears $N 17\frac{3}{4}^{\circ} E$ -

Thence $N 42\frac{1}{4}^{\circ} E$ -

Var $13^{\circ} E$ -

1090 Descend opposite limestone quarry
 35 feet to West -

1230 Descend to center of cañon and road, bears $E \& W$.

1500 Ascend to point where I set a pine post
 4 ft long $4" \times 4"$ - $1\frac{1}{2}$ ft in ground and
 surrounded same with mound
 of stones -

Post - marked C. N^o VI.

Original location monument bears
 $N 60^{\circ} E$ - 4 ft -

Discovery cut bears $N 87^{\circ} W$ - 400 feet

Smelter site " West - 130 "

Limestone Quarry " $S 52\frac{1}{4}^{\circ} W$ - 400 "

Thence $N 47\frac{3}{4}^{\circ} W$

Var $13^{\circ} E$ -

170 Ascend to point of ridge

300 Descend " monument and post

C. I. M. N^o 1 - place of beginning -

Area

Total area of claim 20.66 Acres

Location

This claim is located in the Copper
 Mountain Mining District, Graham
 County - Arizona -

Improvements

made upon this claim by claimant or
 grantors, consist of a discovery cut -

4'x4' 35 ft long - bears $N 87^{\circ} W$ 400 ft
from Post N^o VI -

Smelter site 112 ft x 18' x 6' - bears
West 130 ft from Post N^o VI -

Limestone quarry 80' x 16' x 16' and 80' x 50' x 6'
 $S 52\frac{1}{4}^{\circ} W$ - 400 feet from Post N^o VI -
and I hereby certify that the value
of said improvements exceeds the sum
of five hundred dollars -

There have been no improvements
made on this claim by other
parties -

Instruments used

J. F. Hobby transit and 100 ft steel chain

Variation determined by an
observation on Polaris -
13° East

G. S. Richards
U. S. Deputy Mineral Surveyor

FINAL OATHS FOR SURVEYS OF MINING CLAIMS & MILL SITES.

A LIST of the names of individuals employed to assist in running, measuring, or marking the lines and corners described in the foregoing field-notes of the survey of the "Chalkos" mining claim located in Copper Mountain Mining District, Graham County, Arizona, showing the respective capacities in which they acted.

Samuel Klett Chainman.
A. E. Davison Chainman.
Axeman.
Flagman.

WE hereby certify that we assisted G. W. Richards U. S. Deputy Surveyor in surveying the "Chalkos" mining claim claimed by William Church located in Copper Mountain Mining District, Graham County, 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.

Samuel Klett Chainman.
A. E. Davison Chainman.
Axeman.
Flagman.

SWORN TO AND SUBSCRIBED before me this 17th day of February 1884

E. B. Smith Notary Public in & for Graham Co Arizona

I, G. W. Richards U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions from the U. S. Surveyor-General for Arizona, bearing date the 13th day of February 1884, 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 "Chalkos" mining claim claimed by William Church located in Copper Mountain Mining District, Graham County, Arizona, as are represented in the foregoing field-notes and 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.

G. W. Richards Deputy Surveyor.

SWORN TO AND SUBSCRIBED before me this 21st day of February 1884

W. H. Culver Notary Public Graham Co



AFFIDAVIT OF FIVE HUNDRED DOLLARS IMPROVEMENTS.

We, Samuel Klett and A. E. Davison

of lawful age, being first duly sworn according to law, depose and say that we are acquainted with the

Chalkos - mining claim, situated in the Copper Mountain Mining District, Graham County, Arizona Territory, for which William Church

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 grantors exceed Five Hundred Dollars in value, and further that we are not personally interested in said mine.

Samuel Klett
A. E. Davison

TERRITORY OF ARIZONA,
County of Graham } SS.

SWORN to and subscribed before me, this 17th day

of February 1884

E. B. Trinch
Notary Public in & for
Graham Co. Arizona

Mining Location.

Territory of Arizona } ss.
County of Apache }

Know all men by these Presents. That the undersigned, under the provisions of the Act of Congress, entitled "An Act to promote the development of the Mining resources of the United States" approved May 10th, 1872, has located fifteen hundred linear feet (linear ^{and} horizontal measurement) in length, on this lode, vein, or deposit of Gold Silver, Copper bearing ore or other rock in place, with three hundred feet on each side, for mining purposes.

This claim is situated in Copper Mountain Mining District, in said County, ^{and} shall be known as the Chalkos Mine. The location ^{and} bounds being marked ^{and} described as follows to-wit: Commencing at the corner post marked J. C. cor. Copper Mt. claim ^{and} running thence in a South Westerly direction 600 feet to post marked S. E. corner Copper Mt. claim thence 900 feet in a South Westerly direction to corner J. 2 of this claim; thence 600 feet in a South Easterly direction to cor. J. 3. thence 1500 feet in a North Easterly direction to the post marked S. W. corner Detroit, thence in a North Westerly direction 600 feet to place of beginning.

Dated on the ground, this 26th day of January

A.D. 1881.

Attest: H. Davison.

William Church.

Copper Mountain Mining District }
Territory of Arizona }
County of Apache. }

10

I hereby certify that the foregoing certificate of location of Chalkos Mining claim was filed for record in my office on this 27th day of January A.D. 1881 at 10 A.M. and duly recorded at folio 243 of Book "B" of records of said District.

Saml. J. Preudenthal. Recorder.
Recorded at the request of W^m Church May 9th 1883 at 11 o'clock A.M.

Publ. Salcido. County Recorder.
By P. J. Bolau. Deputy.

Territory of Arizona }
County of Graham } S.

I hereby certify that the foregoing is a full true and correct copy of the location notice of the Chalkos Mining Claim, as it appears of record in the Office of the County Recorder of Graham County A. T. In witness whereof I have hereunto set my hand and affixed my official seal at Solomonville in said County and Territory, this 4th day of February 1884.

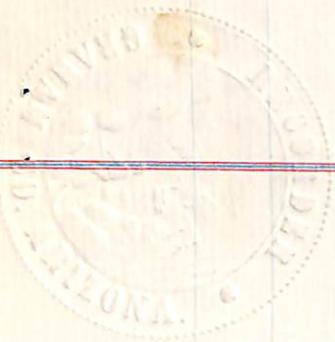
Rubio Salcido

County Recorder

By P. J. Bolau
Deputy Recorder



Certified Copy
of
Notice of Location
of
Chalkos Mines



Notice of Relocation.

Notice is hereby given, that the undersig-
 ned in compliance with the requirements
 of the Mining Act of Congress, approved
 May 10, 1872, has this day relocated ^{and}
 claims 1500 hundred linear feet along
 the course of this lead, lode or vein of
 mineral bearing quartz, 300 feet in width
 on each side of the middle of said lead,
 lode or vein, situate in the Copper Moun-
 tain Mining District, County of Graham
 Arizona, ^{and} more particularly described
 as follows to wit:

Commencing at this monument of sto-
 nes being the center of the North East
 end of claim ^{and} upon which this notice
 is posted; thence North westerly 300 feet
 to a post marked N.E. corner copper int. m. claim;
 thence South westerly 1500 feet to a
 monument of stones; thence South
 Easterly 300 feet to a monument of
 stones, being the center of South West
 end of claim; thence South Easterly
 300 feet to a monument of stones; thence
 North Easterly 1500 feet to a monument
 of stones; thence North westerly 300
 feet to the place of beginning. This
 claim I relocate ^{and} declare it to be
 an "amended location" under the revised

statutes of the United States made ^{and}
provided for such purpose, ^{and} being the
identical ground located by me January
26th A.D. 1881. Filed ^{and} recorded in Apache
County, Copper Mountain Mining Dis-
trict January 27th A.D. 1881. at 10⁻ a.m. folio
243 of Book "3" of records of said District-
^{and} recorded in the County records of
Graham County on the 19th day of May
A.D. 1883. in Book "3" page 66-7. ^{and} shall
be known as the - Chalkos - mine.
Relocated February. 16th 1884.

William Church.

Filed for record ^{and} recorded at request
of W^m Church. February. 25th 1884. at 8 o'clock. A.M.

Tablo. Salcido. County Recorder.
By P. J. Bolau. Deputy.

Territory of Arizona } ss.
County of Graham. }

I hereby certify, that the
foregoing is a full, true ^{and} correct copy
of the location notice of the Chalkos
mine as it appears of record on page
468 of Book "3" Records of Mines. records
of said Graham County Arizona.

In Witness Whereof, I have here-
unto set my hand ^{and} affixed my offi-
cial seal at my office, in Dolanville,

Graham County, Arizona, this 25th day
of February, A. D. 1884.

Publ. Salcido County Recorder.

By

R. J. Bolan
Deputy



Report of
 George M. Robison
 U. S. Deputy Mineral Surveyor
 of all
 Improvements made at the
 time of and subsequent to
 Min. Sur. No 613 Lot No 74
 Approved March 18th 1884
 Upon the
 Chalkos Mining claim.
 Copper Mountain Mining District
 Graham County Arizona
 By
 William Church Claimant under
 Min. Entry No. 323 Dated July 28/84

Report made in pursuance
 of directions in department letter
 And of Instructions of U.S. Surveyor
 General for Arizona Dated
 Nov 10th 1891

Improvements.

The improvements upon the Chalkos Lode consist of a Discovery cut 40ft long 15 ft wide and an average depth of 14 ft. Driven in hard rock.

Its mouth bears

West 400 ft from post No 6
Course to breast North 40ft
Value \$600⁰⁰

A limestone quarry 65x80 ft and an average depth of 10ft. The centre of which bears S 52° W 400 ft from post No 6
Value \$1200⁰⁰

(The limestone from this quarry was mined and used for a flux for treatment of ore taken from this and other adjoining properties owned by the applicant and for no other purpose)

An excavation for Coke bins of Smelter. 112 ft long 18 ft wide average depth 6 feet East end bears West 375 ft from Cor No 6 running thence West 112 ft.
Value \$400⁰⁰

The Above improvements were made prior to Survey for patent. The improvements made at later date are

A Shaft 4x8x45ft deep at breast of the first mentioned cut and which bears from

Cor No. 6.

N 87° W. 400 ft.
Driven through rock.
Value \$360⁰⁰

A Tunnel 4x6 ft in size, driven
through rock, whose mouth
bears from Cor No 6,
S. 70° W. 430 ft
running thence North. 138 ft
Value \$1100⁰⁰

An upraise.
An upraise from the breast
of the last mentioned tunnel
20 feet high
Value \$100.⁰⁰

Three Cross cuts from the
tunnel above. Aggregate length
150 feet.
Value \$1050⁰⁰

A Slope from the North of
the above described shaft
from which about 100 yards of
Mineral have been removed
Value \$300⁰⁰

Total value as above
described \$5110⁰⁰

Corroborative Affidavit

Territory of Arizona } ss.
 County of Graham }

Gordon McLean
 and Alexander D. McLean of lawful
 age being first duly sworn, severally
 depose and say that he is
 personally and well acquainted
 with the Mining Claim of
 William Church claimant
 under Mineral Entry No. 323 known
 as the "Chalkos" and situate
 in Copper Mountain Mining
 District Graham County
 Arizona, and that the labor
 done and improvements made
 thereon by the said claimant
 and his grantors exceed Five
 hundred dollars in value
 That his knowledge of said claim
 and improvements is derived from
 a personal and thorough examina-
 tion upon the premises to
 ascertain the value thereof and
 is such as to enable him to
 testify understandingly with regard
 thereto; that he has carefully read
 the foregoing report of Geo. W. Robinson
 U.S. Deputy Mineral Surveyor and that
 to his own personal knowledge
 said report is in all respects
 true and accurate; and further
 that he is not personally interested
 in said Mining Claim.

Gordon McLean

Alexander D. McLean

Subscribed and sworn to by the above
 named persons before me this 21st day
 of December 1891

F. J. [Signature]
 Notary Public.

Report of Expenditures upon Mining Claim, filed by U. S. Deputy Mineral Surveyor after return of Survey.

I, Geo. M. Robison, U. S. Deputy Mineral Surveyor,

do solemnly swear that in pursuance of instructions received from the United States Surveyor General for Arizona, dated Nov 10th, 1891,

I have made a personal and thorough examination upon the premises, to ascertain the value of the labor expended and improvements made by claimant or his grantors upon the mining claim of

William Church

, known as the Chalkos

, situate in

Copper Mountain mining district, Graham

County, Arizona, in Section _____, Township No. _____

Range No. _____, surveyed by ~~me~~

G. W. Richards U. S. Deputy Mineral Surveyor

Feb. 17th, 1884, and designated as Survey No. 613;

that the value of the labor so expended and improvements so made are as fully stated in my report of said examination, hereto attached; that the character, extent, location and itemized value of said improvements 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.

Geo. M. Robison
U. S. Deputy Mineral Surveyor.

Subscribed and sworn to by the said Geo. M. Robison

_____, U. S. Deputy Mineral Surveyor, before me

this 21st day of December, 1891.

J. H. Harrison
Notary Public

Certificate of U. S. Surveyor General

AS TO

EXPENDITURES REPORTED AFTER RETURN OF SURVEY OF MINING CLAIM.

I, U. S. Surveyor General for Arizona Territory,
do hereby certify that Five Hundred Dollars worth of labor has been expended or
improvements made by claimant or his grantors, upon the mining claim of
William Church. Claimant

known as the "Chalkos"
situate in Copper Mountain mining district,
Graham County, Arizona
in Section _____, Township No. _____, Range No. _____;

that said improvements consist of a Discovery out 40 feet
long 15 feet wide and average depth of 14 feet;
a Limestone Quarry 65 x 80 x 10 feet deep;
Excavation for coke bins 112 feet long
18 feet wide and 6 feet deep. a Shaft
4 x 8 x 45 feet deep; a Tunnel 4 x 6 x
158 feet; an Up-raise from breast of
Tunnel 20 feet high; Three cross
cuts from the Tunnel of an aggregate
length of 150 feet.

_____ , and that no portion of said labor or improvements has been
included in the estimate of expenditures upon any other claim. A copy of the report of
George M. Robison, U. S. Deputy Mineral Surveyor, dated
December 21, 1891, is hereto attached.

Russell Johnson
U. S. Surveyor General for Arizona

Office of U. S. Surveyor General,

Tucson, Arizona.January 4th, 1892

(4-690.)

REPORT OF EXPENDITURES
UPON
MINING CLAIM,
FILED BY
U. S. DEPUTY MINERAL SURVEYOR
After Return of Survey.



Plat

"Chalkos" Mining Claim.

Copper Mountain Mining District

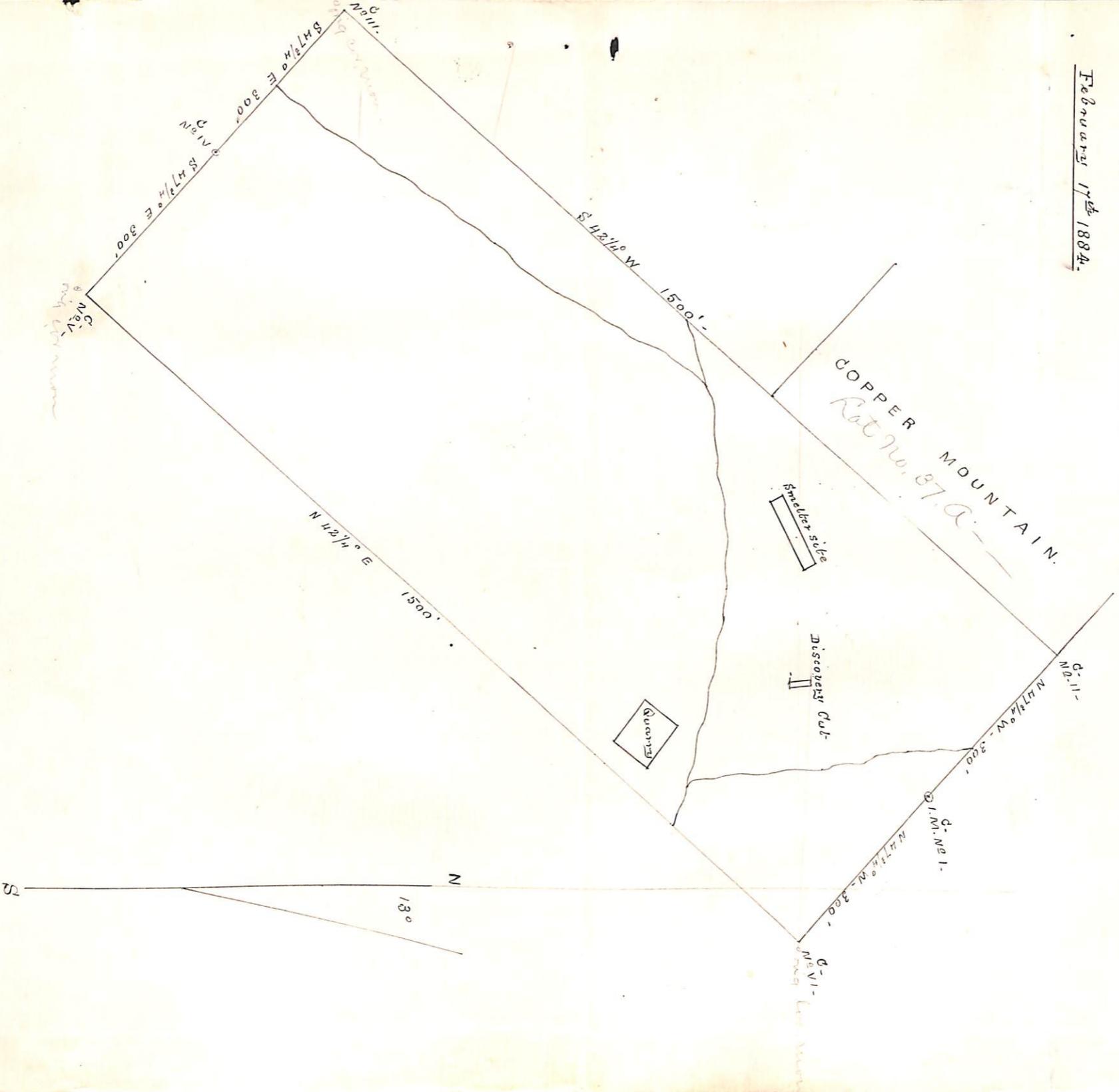
Graham County Arizona

Surveyed by

G. W. Richards

U. S. Dep. Min. Surveyor

February 17th 1884.



U. S. Surveyor General's Office,

Tucson, Arizona, March 18th 1884

The foregoing field notes of the survey of the Chalkos

Mining Claim situate in

the Copper Mountain Mining District, Graham

County, Arizona, claimed by William Church

survey executed by E. H. Richards 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.

Rayald Johnson

Surveyor General.