

MINERAL SURVEY No. _____

LOT No. 3646

Arizona Land District.

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

The United Verde Copper Company

KNOWN AS THE

Captain's Lode

Verde Mining District,

Yavapai County, Arizona

Section 22 UN SUR. Township 16 N Range 25 94SR131M
and within the Prescott National Forest.

Surveyed under instructions dated Dec 11, 1919

by Joseph M. Carthy.
U. S. Mineral Surveyor.

Claim located See location notice attached, 19

Survey commenced Dec 23, 1919

Survey completed May 10, 1920

Address of claimant's ^{ATTY} Le Roy Anderson, Prescott, Arizona
Attorney for claimant.

DATES OF AMENDED LOCATIONS.

Feet	Captain Lode
	Beginning at Cor. No. 1. On line V VI Wade Hampton lode Sur No 592 at $N 28^{\circ} 15' E$ 199.70 ft from Cor II, and $S 28^{\circ} 15' E$ 418.45 ft from Cor 5 & 1254.33 ft from Cor 5 & respectively the intersection of this line with line II III Chrome Northwestern No 1 lode Sur. No. 594.
	A $1\frac{1}{2}$ in. iron pipe 20 in long stamped C. 1. 3646 the center of the pipe being the exact point for corner, whence The $\frac{1}{4}$ sec. Cor between Sec's 22 & 23 T 16 N R 2 E G. & S. R. O & N bears $N 83^{\circ} 03' 10'' E$ 2698.25 ft. Southeast corner of location bears $S 28^{\circ} 15' E$ 199.70 ft. Thence $S 83^{\circ} 04' 10'' E$.
66.72	South end center, a mound of stones 3 ft diam & 3 ft high.
78.02	Intersect line II III Chrome Northwestern No 1, Sur No 594, at $S 17^{\circ} 41' 40'' E$ 1133.85 ft from Cor III and at $S 17^{\circ} 41' 40'' E$ 396.80 ft from the intersection of this line with line V VI Wade Hampton lode Sur. No. 592.
152.00	Cross railroad tracks
187.00	Cross railroad tracks
225.80	To Cor. No. 2. A concrete monument 24 in long 12 in diam. at base and 6 to 8 in. diam. at top set 1 ft. in the ground The core is a 2 in. iron pipe topped by a cap containing a brass disk stamped + C. 2. 3646 Thence $N 18^{\circ} 04' 40'' E$.
212.5	Cross R R tracks running northeasterly
239.0	Cross under power wires running northeasterly
257.5	Cross P. R tracks running northeasterly
530.0	Cross southerly slope of glory-hole
594.0	Cross northerly slope of glory-hole.
1190.96	To Cor. No. 3 Identical with location corner and with Cor I Wade Hampton lode Sur No 592 and Cor II Missing Link lode Sur No 1177 A concrete monument similar to Cor No 2. I stamped it + C. 3. 3646, whence Cor I Missing Link lode Sur No 1177 bears $S 29^{\circ} 33' 40'' E$ 744.59 ft. The intersection of line V VI Wade Hampton lode Sur No 592 with line II III Chrome Northwestern No 1 Sur No 594 bears $S 28^{\circ} 15' E$ 835.86 ft.

Mineral Survey No 3646. Continued

- 59.64 Thence $N 83^{\circ} 04' 10'' E$
North end center, a mound of stones 3 ft diam. & 3 ft high.
- 126.36 To Cor No 4
Identical with location corner and with
Cor. II Jerome lode Sur. No. 1152 and Cor I
Lamb Traction lode Sur No 2808, whence
Cor. III Chrome Northwestern No 1 lode Sur No
594 bears $S 43^{\circ} 04' 30'' E$ 67.62 ft.
- 333.09 Thence $S 22^{\circ} 41' 10'' E$
Intersect line II III Chrome Northwestern No 1
lode Sur. No. 594 at $S 17^{\circ} 41' 40'' E$ 270.73 ft
from Cor III ~~and $N 17^{\circ} 41' 40'' W$ 466.32 ft from~~
~~the intersection of this line with line I VI~~
~~Hade Hampton lode Sur. No 592~~ and at
 $N 17^{\circ} 41' 40'' W$ 373.27 ft from Cor I Missing
Link lode Sur. No 1177, a point on line
II III of the Chrome Northwestern No 1 lode Sur No 594.
- 530.00 Cross northerly slope of glory-hole
- 670.00 Cross southerly slope of glory-hole.
- 714.37 Intersect line II I Missing Link lode Sur No
1177 at $N 83^{\circ} 30' E$ 33.82 ft from Cor I
- 772.00 Cross tracks running northeasterly
- 785.00 Cross under power wires running northeasterly
- 812.00 Cross railroad tracks running northeasterly
- 830.00 Cross railroad tracks running northeasterly
- 1214.11 To Cor No 1 the place of beginning

Variation $14^{\circ} 30'$ to $15^{\circ} E$

Lode Line.

As near as can be determined from
present developments the vein extends as
follows from the discovery point, 508.16 ft.
 $N 22^{\circ} 41' 10'' W$ and 705.95 ft. $S 22^{\circ} 41' 10'' E$

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Mineral Survey No 3646 Continued.

Area	Acres
Total Area Captain Code	4.723 ✓
Area in conflict with	
Sur No 592 Wade Hampton Code	3.029 ✓
Sur No 594 Thorne Northwestern No 1 Code	0.759 ✓
Sur No 594 Thorne Northwestern No 1 Code (exclusive of its conflict with Sur No 592 Wade Hampton Code)	0.354 ✓
Sur No 1177 Missing Link Code	1.263 ✓
Sur No 1177 Missing Link Code (exclusive of its conflict with Sur No 594 Thorne Northwestern No 1 Code)	1.121 ✓

The southwest corner of location was represented by a witness corner marked W.C.C. 2 as the position for said corner comes in a groyhole, I made the witness corner Cov 2 of this survey; as no trace of corner itself remains; and drew Cov 1 within the original lines of the claim as staked upon the ground.

S. 18° 44' E. 189.77 ft. from said witness corner,

Location

This survey is located in Sec. 22, ^{WNSUR} T16N R2E G+SR. B.M. and within the Prescott National Forest.

Expenditure of Five Hundred Dollars.

I certify that the value of the labor and improvements made upon this location by the claimant is not less than five hundred dollars and that said improvements consist of:-

No. 1. The discovery cut, the face of which being the discovery point is on the lode line 508.16 ft from a point on line 3-4 59.64 ft. from Cov. 3. 4.5 ft. wide 10 ft face running S 22° E 32 ft to mouth.

Value of cut \$160.00

No. 2. A cut which bears from Cov. No 3 S 29° 03' E 494.73 ft. 4 ft wide 10 ft face running S 40° E 21 ft to mouth.

Value of cut \$105.00

No. 3. A cut which bears from Cov. No. 3. S 28° 37' E 455.88 ft. 3 1/2 ft wide 6 ft face running S 28° 39' E 11 ft to mouth. From the face is a tunnel 3 1/2 x 6 ft running N 28° 37' E. 42 ft to face

Value of cut and tunnel \$475.00

Instrument.

This survey was made with a Faith transit. The courses were deflected from the true meridian as determined by direct solar observations and used in the triangulation survey of this district.

Mineral Survey No 3646 Continued.

The distances were measured with 100 ft and 660 ft steel tapes.

Adjoining Claims

This claim is adjoined on the north by the:-

Jerome lode Sur No 1152 Hull Copper Co claimant.

Lamb Fraction lode Sur No 2808 U. S. Copper Co claimant.

On the east by the:-

Missing Link lode Sur No 1177 Hull & Self Co's claimants.

Chrome Northwestern No 1 lode Sur No. 594 U & Co claimant.

On the west and south by the

Wade Hampton lode Sur No 592 U & Co claimant.

Report.

The lines of this claim were run upon the ground by a traverse and the conflicts tied in from the several traverse points.

The $\frac{1}{4}$ sec. Cor. between Sec's 22 & 23 T16 N R2 E G & SP Q & M is a 1 in. iron pipe buried in a street in the Mexican quarters of Jerome, and is capped by a brass top stamped 22 $\frac{1}{4}$ 23.

Sur No 592 Wade Hampton lode:-

Cors I & VII are concrete monuments properly marked. I find line I VII to be S 28° 15' E 1454.03 ft instead of being S 26° 30' E 1500.00 as appeared.

Sur No 594 Chrome Northwestern No 1 lode.

Cor III is a concrete monument. Cor II is in the gloryhole area and could not be found its position being taken from private records of the United Verde Copper Co.

I make line II III N 17° 41' 40" E 1475.95 ft. instead of N 17° 45' E 1500.00 ft.

Sur No 1152 Jerome lode

Cor II is a concrete monument properly marked. Cor I of the Wade Hampton lode Sur No 592 previously described is given as a point on line II III Jerome lode. I make the line between these corners S 83° 04' 10" E 126.36 ft instead of S 83° 30' E as given.

Sur No 2808 Lamb Fraction lode.

Cor I is a concrete monument properly marked.

Sur No 1177 Missing Link lode.

Cors I & II are not in place. Cor II is a concrete monument properly marked, and Cor II of Jerome lode Sur No 1152 is given as a point on line II III of the Missing Link lode.

Mine Survey No 3646 Concluded

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In the survey of this lode the United States ~~Dept~~ Mine Surveyor E. H. Johnston did not find Cor VI of the Wade Hampton lode Sur No 592 and asked for instructions. He was told to place Cor I of the Missing Link on line II III of the Chrome Northwestern No 1 lode Sur No 594 at 644.00 ft from Cor III, which from the data available at that time was the most probable place for the point of intersection of that line, with line V VI of the Wade Hampton lode Sur No 592.

Later when Cor VI of the Wade Hampton was found by the mine surveyors; it being a + W.H. No. 6 chiseled on the face of a cliff; it was seen that the lines intersected at 737.05 ft from Cor III of the Chrome Northwestern No 1 lode and that there was still a fraction open which is now included in this survey.

I make line I II $N 29^{\circ} 33' 40''$ Δ 744.59 ft instead of $N 29^{\circ} 45'$ Δ 756.43 ft.

Sur No 1177

FINAL OATHS FOR SURVEYS.

LIST OF NAMES.

A list of the names of the individuals employed by Joseph McCarthy
 United States 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 _____
~~The United Verde Copper Company~~
 known as the Caplani Lode
 and showing the respective capacities in which they acted.

Vincent Watterich, *Chainman.*
 _____, *Chainman.*
 _____, *Arman.*
 _____, *Flagman.*

FINAL OATHS OF ASSISTANTS.

I
 We, Vincent Watterich
 and _____, do solemnly swear that we assisted Joseph
McCarthy, United States Mineral Surveyor, in marking the corners and surveying
 the boundaries of the mining claim of _____
The United Verde Copper Company
 known as the Caplani Lode
 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 instruc-
 tions furnished by the United States Surveyor-General for Arizona.

Vincent Watterich, *Chainman.*
 _____, *Chainman.*
 _____, *Arman.*
 _____, *Flagman.*

Subscribed and sworn to by the above-named persons before me this 10th
 day of April, 1921.

Robert Potter

FINAL OATH OF U. S. MINERAL SURVEYOR.

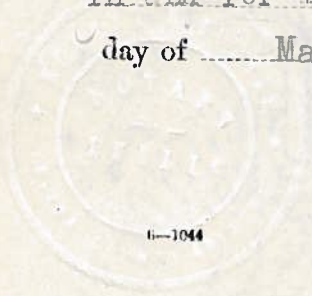
I, Joseph M.Carthy, U. S. Mineral Surveyor,
do solemnly swear that, in pursuance of instructions received from the United States
Surveyor General for Arizona, dated
Dec 11, 1919, I have, in strict conformity to the laws of the
United States, the official regulations and instructions thereunder, and the instructions
of said Surveyor General, faithfully and correctly executed the survey of the Mining
Claim of The United Verde Copper Company
, known as the
Captain Lode
situate in Verde Mining District,
Yavapai County, Arizona, in Section national Forest
22 Unsur, Township No. 16N, Range No. 2E 34 PRB 13 N and within the Prescott
and designated as Survey No. 3646, 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 per-
petuated in strict accordance with the law, official regulations and instructions there-
under; 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.

Joseph M.Carthy
U. S. Mineral Surveyor.

Subscribed and sworn to by the said Joseph McCarthy,
U. S. Mineral Surveyor, before me Robert K. Porter, a Notary Public
in and for Yavapai County, Arizona this 7th
day of May, 19 21.

Robert K. Porter

Notary Public.



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

Department of the Interior,

OFFICE OF U. S. SURVEYOR-GENERAL,

Phoenix, Arizona,

July 15, 19 21

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

UNITED VERDE COPPER COMPANY

known as the CAPTAIN LODE

situate in VERDE

Mining District, YAVAPAI County, ARIZONA,

in Section 22 Unsur., Township No. 16 N., Range No. 2 E., and designated as Survey No. 3646, 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 or improvements made upon said mining claim by claimant or its grantors, and that said improvements consist of 3 cuts and 1 tunnel, total value \$740.

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 P. Trott,

United States Surveyor-General for Arizona.

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,

July 15, 1921

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

UNITED VERDE COPPER COMPANY

, known as the

CAPTAIN LODE

situate in VERDE mining district,

YAVAPAI County, ARIZONA,

in Section 22 Unsur., Township No. 16 N., Range No. 2 E., and within the Prescott National Forest, G. & S. R. B. & M. designated as Survey No. 3646

executed by Joseph McCarthy, U. S. Mineral

Surveyor, Dec. 23, 1919 - May 10, 1920, 1919, under my instructions dated

Dec. 11, 1919, 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. 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.

[Handwritten signature]

U. S. Surveyor General for Arizona.