

JAN. 5. 1919

MINERAL SURVEY No. 3544

Arizona Land District.

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Phelps Dodge Corporation

KNOWN AS THE

TIOGA Lode

Copper Mountain Mining District,

Greenlee County, Arizona

Section 9 Uns., Township 4 South, Range 29 E., G. & S. R. B. & M

Surveyed under instructions dated September 26, 1918

by E. T. Morton U. S. Mineral Surveyor.

Claim located see location notice, 19

Survey commenced October 15, 1918

Survey completed October 18, 1918

Address of claimant: Morris & Malott, Attys., Box 879, Globe, Arizona.

DATES OF AMENDED LOCATIONS.

(1)

Feet	SURVEY NO. 3544
	Tioga lode.
	Beginning at Cor. No. 1.
	Identical with Cor. No. 2, Sur. NO. 1792 A., Ballyrat lode.
	On line 3-4, Sur. NO. 1792 A., Copper Queen lode.
	A pine post, in place, 4 x 6 ins., 3.5 ft. high, with mound of stone, scribed T 1-3544, Whence
	U. S. L. M. No. 1654, bears S.4°02'E. 3328 ft.
	----- Thence N. 71° 19' W.
162.4	SW. end center of the location and lode.
297.47	Cors. Nos. 3 and 4, Sur. 1792 A., Copper Queen and Sur. No. 2941, Palmerston lodes, respectively.
325.3	To Cor. No. 2.
	Identical with Cor. No. 3, Sur. No. 2941, Palmerston lode.
	On line 9-12, Sur. NO. 1033 A. Oneida lode.
	A quartz-porphry stone, 6 x 12 x 24 ins., set 12 inches in the ground, with mound of stone alongside, scribed T 2-3544.
	----- Thence N. 18° 20' E.
1040.	Cor. No. 12, Sur. No. 1033 A., Oneida lode.
	Intersect line 1-2, Sur. No. 2936 Chicola lode, at N.71° 19'W. 324.8 ft. from Cor. No. 1.
1095.4	To Cor. No. 3.
	A pine post, in place, 4 x 6 ins., 3.5 ft. high, with mound of stone, scribed T 3-3544, whence
	A cross (X) and BR 3-3544 chiseled on quartz-porphry face. 5 x 5 ft., 5 ft. high, facing north, bears S.29°W. 11.3 ft.
	----- Thence S. 71°19' E.
162.4	NE. end center of the location and lode.
324.8	To Cor. No. 4.
	On line 4-1, Sur. No. 2936, Chicola lode, also,

Feet

Online 2-3, Sur. No. 1792 A., Ballyrat lode.

A quartz-porphry stone, 6 x 12 x 24 ins., set 12 inches in the ground, with mound of stone alongside, scribed T 4-3544, whence

A cross (X) and BR 4-3544, chiseled on quartz-porphry bed rock, exposed 2 x 3 ft., bears N.68°W. 4 ft.

Thence S. 18° 18' W.

55.4

Cor. No. 1, Sur. No. 2936, Chicola lode.

1095.4

To Cor. No. 1, the place of beginning.

Variation at all Corners 13° 45' E.

LODE LINES

As near as can be determined by present development the vein of this location extends as follows from the discovery point:

75 ft. S. 18° 18' W., and 1020.4 ft. N. 18° 18' E.

AREA

Total area Tioga lode

Acres Acres
8.174

Area in conflict with:-

Sur. No. 2936 Chicola lode

0.413

LOCATION

This survey is located in Sec. 9, unsurveyed, T. 4 S., R. 29E., G. & S. R. B. & M., Copper Mountain Mining District, Greenlee County, Arizona Land District, Arizona.

EXPENDITURE OF FIVE HUNDRED DOLLARS

I certify that the value of the labor and improvements made upon said mining claim by the claimant is not less than five hundred dollars, and that said improvements consist of:

No. 1. The discovery, showing mineral in place, on the lode line 75 ft. from the SW. end center.

No. 2. A tunnel, the mouth of which bears from Cor. No. 1. N. 14°45' E. 203.5 ft., running west 325 ft., 5 x 7 ft.

Value

\$ 4,875.00

ADJOINING LODES

This survey is bounded on the North by Sur. No. 2936 Chicola lode, Arizona Copper Co. claimant; on the East by Sur. No. 1792 A. Ballyrat lode, Arizona Copper Co. claimant; on the South by Sur. No. 1792 A., Copper Queen lode and Sur. No. 2941, Palmerston lode, Arizona Copper Co. claimant; and on the West by Sur. No. 1033 A., Oneida lode, Claimant herein.

INSTRUMENT

This survey was made with a Berger Light Mountain Transit. The courses were deflected from the true meridian as determined by Polaris observations. The distances were measured with 500, 50 and 5 ft. steel tapes.

REPORT

U. S. L. M. No. 1654 is a pine post, 7 ins. square, properly set and scribed.

Sur. No. 2936, Chicola lode:

Corners Nos. 2 and 4 are pine posts properly set and scribed. Cor. NO. 1 has been obliterated; its position was re-established from bearing rock.

Sur. No. 1792 A., Ballyrat and Copper Queen lodes:

All corners are pine posts properly set and scribed.

Sur. No. 2941, Palmerston lode:

Corners Nos. 1, 2, and 4 are pine posts properly set and scribed. Cor. No. 3 has been obliterated; its position was re-established from bearing rock.

Sur. No. 1033 A., Oneida lode:

All corners are pine posts properly set and scribed.

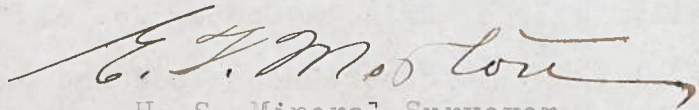
The survey of this location is identical with its amended location as staked on the ground.

The differences between these field notes and the location certificates are due to errors in the latter.

The differences between these field notes and the returns of previous surveys are due to errors in the latter.

All end centers are mounds of stone.

The exact corner points are marked ^{by} tacks on corners Nos. 1 and 3, and corners Nos. 2 and 4 with crosses.


E. J. Maston

U. S. Mineral Surveyor.

FINAL OATHS FOR SURVEYS.

LIST OF NAMES.

A list of the names of the individuals employed by E. T. Morton
 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 _____
 _____ Phelps Dodge Corporation _____
 known as the Tioga lode _____
 and showing the respective capacities in which they acted.

Pablo Gonzales _____, *Chainman.*
 _____, *Chainman.*
 _____, *Aceman.*
 _____, *Flagman.*

FINAL OATHS OF ASSISTANTS.

~~We~~, I, Pablo Gonzales _____
~~and~~ _____, do solemnly swear that ~~we~~ ^I assisted E. T. Morton _____
 _____, United States Mineral Surveyor, in marking the corners and surveying
 the boundaries of the mining claim of Phelps Dodge Corporation _____

 known as the Tioga 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 _____

Pablo Gonzales _____, *Chainman.*
 _____, *Chainman.*
 _____, *Aceman.*
 _____, *Flagman.*

Subscribed and sworn to by the above-named persons before me this 9th, _____
 day of January _____, 1919

Louis T. Payne

 Notary Public

My commission expires Feb. 20 - 1919.

FINAL OATH OF U. S. MINERAL SURVEYOR.

I, E. T. Morton, U. S. Mineral Surveyor, do solemnly swear that, in pursuance of instructions received from the United States Surveyor General for Arizona, dated September 26, 1918, 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 Phelps Dodge Corporation, known as the Tioga lode, situate in Copper Mountain Mining District, Greenlee County, Arizona, in Section 9 Uns., Township No. 4 S., Range No. 29 E., G. & S. R. B. & M., and designated as Survey No. 3544, 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.

E. T. Morton
 U. S. Mineral Surveyor.

Subscribed and sworn to by the said E. T. Morton
 U. S. Mineral Surveyor, before me Louis T. Payne
 a Notary Public this 9th
 day of January, 19 19.

Louis T. Payne
 Notary Public

My commission expires Feb. 20-1919



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

Department of the Interior,

OFFICE OF U. S. SURVEYOR-GENERAL,

Phoenix, Arizona,

May 13, 1919.

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

PHELPS DODGE CORPORATION

known as the TIOGA LODGE

situate in COPPER MOUNTAIN

Mining District, GREENLEE County, ARIZONA

in Section 9 uns., Township No. 4 S., Range No. 29 E., and

designated as Survey No. 3544, 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 1 tunnel, value \$4875.

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,

May 13, 1919.

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

PHELPS DODGE CORPORATION

, known as the

TIOGA LODGE

situate in COPPER MOUNTAIN mining district,

GREENLEE County, ARIZONA.

in Section 9 uns., Township No. 4 S., Range No. 29 E.

, designated as Survey No. 3544

executed by E. T. Morton, U. S. Mineral

Surveyor, October 15, -18, 1918, under my instructions dated

September 26, 1918, 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.