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OCT. 1 - 1917

MINERAL SURVEY No. 3440

Arizona

Land District.

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Phelps Dodge Corporation

KNOWN AS THE

Eighty-Nine lode

Copper Mountain

Mining District,

Greenlee

County,

Arizona

Section 16 Uns., Township 4 South, Range 29E., G. & S. R. B. & M.

Surveyed under instructions dated September 20, 1917.

by E. T. Morton

U. S. Mineral Surveyor.

Claim located see location notice, 19

Survey commenced September 23, 1917.

Survey completed September 25, 1917.

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

DATES OF AMENDED LOCATIONS.

Feet	<p style="text-align: center;">SURVEY NO. 3440. Eighty Nine lode.</p> <p>Beginning at Cor. No. 1. On line 44-45 Sur. No. 1127 Eagle lode at N. 84°22' W. 744.2 ft from Cor. No. 44. A redwood post 4x6 ins. 4.5 ft. long set 24 ins. in the ground with a mound of stones scribed E N 1-3440, whence U.S.L.M.No. 1654 bears N. 1° 11' E. 2978.1 ft. Thence S. 84° 22'E.</p>
.67	<p>Intersect line 1 - 2 Lot No. 51 Fairplay lode at S. 6° 02' W. 250.3 ft. from Cor. No. 2.</p>
300	<p>North end centre of the location and lode.</p>
501.5	<p>Intersect line 41-42 Sur. No. 1127 Humboldt lode at S. 30° 34' E. 80.3 ft. from Cor. No. 42.</p>
600	<p>To Cor. No. 2. On line 44-45 Sur. No. 1127 Eagle lode at N. 84°22'W. 144.2 ft from Cor. No. 44. A redwood post, 4x6 ins. 4.5 ft. long set 24 ins. in the ground with a mound of stones scribed, E N 2-3440. No bearings available.</p>
100	<p style="text-align: center;">Thence S. 5° 39' W.</p> <p>To Cor. No. 3. A redwood post 4x6 ins. 4.5 ft long set 24 ins. in the ground with a mound of stones scribed E N 3 - 3440 No bearings available.</p>
25.3	<p style="text-align: center;">Thence N. 84° 22' W.</p> <p>Cors. Nos. 1 and 1 Lot No. 38 and Sur. No. 3442 Arizona Central and Triangle Trapezoid lodes respectively, also intersects line 41-42 Sur. No. 1127 Humboldt lode at S. 30°34'E 204.2 ft. from Cor. No. 42.</p>

300 South end centre of the location and lode.

600 To Cor. No. 4.

Identical with Cor. No. 2 Lot No. 38 Arizona Central lode, also on line 1-2 Lot No. 51

Fairplay lode at S. 6° 02' W. 350.3 ft. from Cor. No. 2.

A redwood post 4 x 6 ins. 4.5 ft. long set 24 ins. in the ground with a mound of stones scribed E N 4-3440.

No bearing available

Thence N 5° 39' E.

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

Variations at all corners 15°00'E

LODE LINE

As near as can be determined from present developments the vein of the location embraced in this claim extends as follows from the discovery point; Eighty Nine lode 100 ft. N.5°39'E.

AREA.

Acres

Total Area Eighty Nine lode - - - - - 1.377

Area in conflict with -

Lot No. 51 Fairplay lode - - - .001

Sur. No. 1127 Humboldt lode - .142

LOCATION.

This survey is located in the Copper Mountain Mining District, Greenlee County, Arizona, approximately in Sec. 16 Uns. T. 4 S., R. 29 E. G. & S. R. B. & M.

EXPENDITURE OF FIVE HUNDRED DOLLARS.

I certify that the value of the labor and improvements made upon the location embraced in this claim by the claimant or its grantors is not less than five hundred dollars and that said improvements consist of:

Eighty Nine lode.

No. 1. The discovery showing mineral in place is on the lode line at the south end centre.

Note: The last 204 ft. of the Copper Mountain tunnel is on this lode and is hereto accredited.

Value last 204 ft. - - - \$4080.00.

Note: The adit of the Copper Mountain tunnel bears from Cor. No. 3 of this lode S. 26°43' E 670.6 ft.

6x6.5 ft running N. 54°39'W. 612 ft. Thence

N. 51°20' W. 125 ft. Thence N. 52° 05' W. 150 ft.

Thence N. 33°E 112 ft. Thence N. 47°45' W. 35 ft.

Thence N. 60° W. 75 ft. Thence N. 51° 45'W.27 ft.

Thence N. 60° W. 90 ft.

ADJOINING LODES.

The adjoining lodes are ^{on the West} Lot. No. 51, Fairplay lode; ^{on the North,} Sur. No. 1127 Eagle ^{lode;} ^{on the West, Sur. No. 1127,} and Humboldt lodes, the Arizona

Copper Company claimant;

^{On the South,} Sur. No. 3442 Triangle Trapezoid lode and

Lot No. 38 Arizona Central lode claimant herein.

INSTRUMENT

This survey was made with a Buff and Berger light mountain transit. The courses were deflected from the true meridian as determined by polaris observations. The distances were measured with 5,50 and 500 ft. steel tapes.

REPORT

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

Sur. No. 1127 Eagle and Humboldt lodes:

Cors. Nos. 41-42-44 and 45 are posts properly set and scribed.

Lot No. 38 Arizona Central lode:

Cors. Nos. 1 and 2 are posts properly set and scribed:

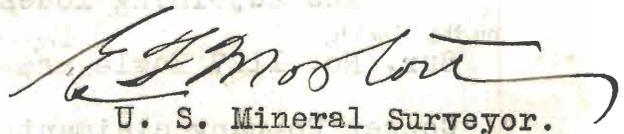
Lot No. 51 Fairplay lode:

Cors. Nos 1 and 2 are posts properly set and scribed.

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

The survey of the lode embraced in this location is identical with the ~~amended~~ location as staked upon the ground.

All end centre monuments are mounds of stone.



U. S. Mineral Surveyor.

TESTIMONY

This survey was made with a hand level and barometer light mountain transit. The courses were defined from the true meridian as determined by solar observations. The distances were measured with a 300 ft steel

101-1017

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 _____ Eighty-Nine lode _____
 and showing the respective capacities in which they acted.

_____W. R. Hutchins_____, *Chainman.*
 _____, *Chainman.*
 _____, *Axman.*
 _____, *Flagman.*

FINAL OATHS OF ASSISTANTS.

~~We,~~ I, W. R. Hutchins _____
~~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 _____ Eighty-Nine 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~~ ^{my} 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 _____

_____W. R. Hutchins_____, *Chainman.*
 _____, *Chainman.*
 _____, *Axman.*
 _____, *Flagman.*

Subscribed and sworn to by the above-named persons before me this 29th

day of September, 1917

Louis T. Payne

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 20, 1917, 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 Eighty-Nine lode, situate in Copper Mountain Mining District, Greenlee County, Arizona, in Section 16 Uns., Township No. 4 S., Range No. 29 E., G. & S. R. B. & M., and designated as Survey No. 3440, 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
Notary Public this 29th
 day of September, 1917

Louis T. Payne
 Notary Public.



My commission expires Feb. 20, 1919.

A M E N D E D L O C A T I O N N O T I C E .

NOTICE IS HEREBY GIVEN THAT THE UNDERSIGNED; The Detroit Copper Mining Company of Arizona, a corporation, the assignee of Gordon McLean who on the 9th. day of November 1889, located the EIGHTY - NINE mining claim situated in the Copper Mountain Mining District Graham (now Greenlee) County Arizona, the locatoⁱⁿ notice of which claim is of record in the office of the Recorder of said Graham County in Book 6, Record of Mines, page 240, has on this 6th, day of September 1913, made made an amended location of said claim, by virtue of which and of said original location, it claims as a mining claim the following described lead, lode or vein of mineral bearing earth, rock or quartz and premises situated in the Copper Mountain Mining District, in the County of Greenlee Arizona, to-wit:

- The name of said claim is the Eighty-nine Mining Claim.
- The name of the locator is The Detroit Copper Mining Company of Arizona.
- The length of the said claim along the said vein or lode is 100 feet.
- The width of said claim is 300 feet on each side of the middle of said lead, lode or vein.
- The general course of said lode and claim is Northerly to Southerly.
- The point of discovery is at the center of the South end line.
- The distance from the Point of discovery to the North end center monument is one hundred feet.

This location notice is posted in the monument of stones erected at the Point of discovery upon said claim, which monument is herein after referred to as the Location Monument.

Said claim is bounded and described as follows, to-wit:

Beginning at the Location monument, thence N. 84° 12' W. 300 feet to a post and mound of stones, being the Southwest corner of the claim, also marked for a witness corner for the Northwest corner which on account of precipitous ground is not suitable for the establishment of a corner.

Thence from the Southwest corner, N. 5° 48' E. 100 feet to the Northwest corner, thence S 84° 12' E. 300 feet to a monument of stones, being the center of the North end of the claim; thence again S. 84° 12' E. 300 feet to a post and mound of stones, being the Northeast corner of the claim, thence S. 5° 48' W. 100 feet to a post and mound of stones, being the Southeast corner of the claim; thence N. 84° 12' W. 300 feet to the place of beginning.

This claim lies North of the Arizona Central, East of the Fairplay, South of the Eagle and West of the Humboldt mining claims. All of which are patented. The amended location occupies identically the same ground as the original location and is made to correct errors in the original description, to claim all ground within its boundaries and to give a better description of the ground, or claim, and is without waving of prior rights.

Amended and posted on the ground this 6th day of September, 1913.

THE DETROIT COPPER MINING CO. OF ARIZONA

by *A. J. Housney*
Gen. Manager

THE DETROIT COPPER MINING CO. ... THE DETROIT COPPER MINING CO. ... THE DETROIT COPPER MINING CO. ...

W. 2446

AMENDED LOCATION NOTICE?

EIGHTY - NINE - CLAIM

THE DETROIT COPPER MINING CO.

Dated September 6th. 1913

RECORDER'S OFFICE
GRIFFIN COUNTY, ARIZ.

Filed for record the 10th day of Sept 1913 at 9 o'clock A.M.

and recorded in Book 119

at the request of

at the request of

at the request of

*By Wm. H. ...
County Recorder
Specially Authorized*

This location notice is posted in the monument of stones erected at the point of discovery upon said claim, which monument is herein after referred to as the Location Monument. Said claim is bounded and described as follows, to-wit: Beginning at the location monument, thence N. 84° 12' W. 300 feet to a post and mound of stones, being the southwest corner of the claim, also a witness corner for the Northwest corner which on account of ground is not suitable for the establishment of a corner. From the southwest corner, N. 84° 12' W. 100 feet to the Northwest corner, thence S. 84° 12' E. 300 feet to the North end of the claim; thence again S. 84° 12' E. 300 feet to the North end of the claim, being the Northeast corner of the claim, thence S. 84° 12' W. 300 feet to the place of beginning. The amended location occupies identically the same ground as the original location and is made to correct errors in the original description of the claim, and is without waiving of prior rights.

THE DETROIT COPPER MINING CO. OF ARIZONA

Wm. H. ...

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

Department of the Interior,

OFFICE OF U. S. SURVEYOR-GENERAL,

Phoenix, Arizona.

March 8, 1918.

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 Eighty-Nine lode

situate in Copper Mountain

Mining District, Greenlee County, Arizona.

in Section 16 uns., Township No. 4 S., Range No. 29 E., and

designated as Survey No. 3440, 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 204 ft. of tunnel, value \$4080.00

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 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.

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,

Phoenix, Arizona.

March 8, 1918.

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

Eighty-Nine lode

situate in Copper Mountain mining district,

Greenlee County, Arizona.

in Section 16 Uns., Township No. 4 S., Range No. 29 E.

, designated as Survey No. 3440

executed by E. T. Morton, United States Mineral

Surveyor, September 23-25, 1917, under my instructions dated

September 20, 1917, 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. A true copy of the copy of the location certificate filed by the applicant for

survey is included in the field notes.

Frank P. Frost

U. S. Surveyor-General for Arizona.