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MINERAL SURVEY No. 3546

Arizona Land District

# FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Phelps Dodge Corporation

KNOWN AS THE

ELLA BELLE, DORCAS lodes

Copper Mountain Mining District,

Greenlee County, Arizona

Section s 17 & 20 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 notices, 19

Survey commenced September 28, 1918

Survey completed October 3, 1918

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

DATES OF AMENDED LOCATIONS.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Feet	SURVEY NO. 3546
	Ella Belle lode.
	Beginning at Cor. No. 1.
	A pine post, 4x6 ins., 3.5 ft. high, in place, with mound of stone, scribed EB 1-3546, whence
	The SE. Cor. Sec. 13, T. 4 S. R. 28 E., G. & S. R. B. & M. bears N.85°17'W. 10553.7 ft.
	----- Thence N. 58° 09' E.
375.65	Intersect lines 2-3 and 4-1 Sur. No. 2858, Copper Pig and Copper Bar lodes, respectively, at S.71°06'W. 216.98 ft. from Cors. Nos. 3 and 4, respectively.
608.32	Cor. No. 4, Dorcas lode, of this survey, and Intersect line 3-4, Sur. No. 2858, Copper Bar lode, at N.18°17'W. 53.05 ft. from Cor. No. 4.
873	Intersect gulch, course SW.
1234.32	Cor. No. 3, Dorcas lode, of this survey.
1255	To Cor. NO. 2. A pine post, in place, 4x6 ins., 3.5 ft. high, with mound of stone, scribed EB 2-3546. No bearings available.
	----- Thence S. 61° 58' E.
100.5	To Cor. No. 14, Sur. No. 1172 Nevada lode.
346	NE. end center of the location and lode.
692	To Cor. No. 3. ----- Identical with Cor. No. 13, Sur. No. 1172, Nevada lode. On line 9-10, Sur. No. 1172, Crown lode, A pine post, in place, 4x6 ins., 3.5 ft. high, with mound of stone, scribed EB 3-3546. No bearings available.
	----- Thence S. 58° 09' W.
1085.	Intersect gulch, course West.
1255	To Cor. No. 4.

Identical with Cor. No. 4, Sur. No. 2858, Copper Pig lode.  
On line 9-10, Sur. No. 1172, Crown lode, at N.58°09'E.  
29.7 ft. from Cor. No. 9.

A pine post, in place, 4x6 ins., 3.5 ft. high, with  
mound of stone, scribed EB 4-3546, whence  
Cor. No. 3, Sur. No. 2858, Copper Pig lode, bears N.8°  
17'W. 600 Ft.

-----  
Thence N. 61° 58' W.

346 SW. end center of the location and lode.

393 Intersect gulch, course SW.

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

-----  
Dorcas lode.

Beginning at Cor. No. 1.

A pine post, in place, 4x6 ins., 3.5 ft. high, with  
mound of stone, scribed D 1-3546, whence

The SE. Cor. Sec. 13, T. 4 S. R. 28 E., G. & S. R. B.  
& M. bears S. 88° 08' W: 10056.3 ft.

-----  
Thence N. 58° 09' E.

313 NW. end center of the location and lode.

626 To Cor. No. 2.

A pine post, in place, 4x6 ins., 3.5 ft. high, with  
mound of stone, scribed D 2-3546.

No bearings available.

-----  
Thence S. 48° 26' E.

185 Intersect gulch, course SW.

1315 To Cor. No. 3.

On line 1-2 Ella Belle lode, of this survey.

A pine post, in place, 4x6 ins., 3.5 ft. high, with  
mound of stone, scribed D 3-3546.

No bearings available.

-----  
Thence S. 58° 09' W.

feet  
 313 SE. end center of the location and lode.  
 361 Intersect gulch, course SW.  
 626 To Cor. No. 4.  
 On line 3-4, Sur. No. 2858, Copper Bar lode, at S.8°17'E.  
 546.95 ft. from Cor. No. 3.  
 On line 1-2, Ella Belle lode, of this survey.  
 A pine post, in place, 4x6 ins., 3.5 ft. high, with  
 mound of stone, scribed D 4-3546.  
 No bearings available.

-----  
 Thence N. 48° 26' W.

617.87 Intersect lines 2-3 and 4-1, Sur. No. 2858, Copper Bar  
 and Bacon Rind lodes, respectively, at S.71°06'W. 405.35  
 ft., and 178.63 ft. from Cors. Nos. 3-4, respectively.  
 1095 Intersect gulch, course SW.  
 1303.83 Intersect line 2-3, Sur. No. 2858, Bacon Rind lode, at  
 S.71°06'W. 587.4 ft. from Cor. No. 3, whence Cor. No.4  
 said Bacon rind lode bears S.12°09E. 601 ft.  
 1315 To Cor. No. 1, the place of beginning.

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 Variation at all corners 13°45' E.  
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	AREAS.	Acres	Acres
Total area Ella Belle lode.			17.246
Area in conflict with:-			
Sur. No. 2858, Copper Pig lode.		4.050	
Sur. No. 2858, Copper Bar lode.		0.130	
Total area Dorcas lode.			18.112
Area in conflict with:-			
Sur. No. 2858, Copper Bar lode.		2.501	
Sur. No. 2858, Bacon Rind lode.		5.248	

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 LOCATION

This survey is located, ~~approximately~~, in Sections 17 and 20,  
 unsurveyed, T. 4 S. R., 29 E., G. & S. R. B. & M., Copper Moun-  
 tain Mining District, ~~Arizona~~ <sup>Greenlee County,</sup> ~~Greenlee County.~~  
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LODE LINES

As near as can be determined from present developments the veins of the several locations embraced in this claim extend as follows from their respective discovery points:

Dorcas lode, 91 ft. S.48°26'E.; and 1224 ft. N.48°26'W.

Ella Belle lode, 12 ft. N.58°09'E., and 1243 ft. S.58°09'W.

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EXPENDITURE OF FIVE HUNDRED DOLLARS.

I certify that the value of the labor and improvements made <sup>upon</sup> or for the benefit of, each of the locations embraced in said mining claim by the claimant or its grantors is not less than five hundred dollars, and that said improvements consist of:

**Ella Belle**

No. 1. The discovery of the Ella Belle lode, showing mineral in place, on the lode line 12 ft. from the NE. end center.

No. 2. A shaft, the center of which bears from a point on line 1-2, ~~400~~ <sup>608.32</sup> ft. from Cor. No. 1; S.85°25'E. 220 ft., 4x6 ft., 80 ft. deep.

Value \$ 1,000.

**Dorcas.**

No. 1. The discovery of the Dorcas lode, showing mineral in place, on the lode line 91 ft. from the SE. end center.

No. 2. A tunnel, with open cut approach the mouth of which bears from Cor. No. 4., N.15°E. 242 ft., running N.21°W. 26 ft. in open cut and thence North in 5x7 ft. tunnel 30 ft. (Open cut 5x9 ft.)

Value \$ 350.

No.3. A tunnel, with open cut approach the mouth of which bears from Cor. No. 4. N.56°50'E. 513 ft., running N.13°E. 22 ft. in open cut 5x10 ft., and 22 ft. in tunnel 5x7 ft.

Value \$ 350.

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ADJOINING LODES

The adjoining lodes are; on the Northeast, Southern Belle and Wyoming, /unsurveyed, and Sur. No. 1172, Nevada lode, Phelps Dodge Corporation, claimant herein; on the Southeast, Sur. No. 1172, Crown lode, claimant herein (Phelps Dodge Corporation); on the

(5)

Southwest, Sur. No. 2858, Copper Pig, Copper Bar and Bacon Rind lodes, Arizona Copper Company, claimant; and on the Northwest, the Barcelona lode, unsurveyed, Phelps Dodge Corporation, claimant herein.

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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 <sup>with</sup> 5, 50 and 500 ft. steel tapes.

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REPORT

The SE. Cor. Sec. 13, T. 4 S. R. 28 E., G. & S. R., B. & M. is an iron rod with brass cap properly set and scribed.

Sur. No. 1172, Nevada and Crown lodes:

All corners are posts properly set and scribed.

Sur. No. 2858, Copper Pig, Copper Bar and Bacon Rind lodes:

All corners are posts properly set and scribed.

The survey of each lode of this claim is identical with the respective location as staked on the ground.

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

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

All end center monuments are mounds of stone.

All corner points are marked with tacks.

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E. T. Morton  
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 Ella Belle, Dorcas lodes  
 and showing the respective capacities in which they acted.

\_\_\_\_\_  
J. L. Awalt \_\_\_\_\_, *Chainman.*  
 \_\_\_\_\_  
Pablo Gonzales \_\_\_\_\_, *Chainman.*  
 \_\_\_\_\_, *Asman.*  
 \_\_\_\_\_, *Flagman.*

## FINAL OATHS OF ASSISTANTS.

We, J. L. Awalt  
 and Pablo Gonzales, do solemnly swear that we 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 Ella Belle, Dorcas lodes  
 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.

\_\_\_\_\_  
J. L. Awalt \_\_\_\_\_, *Chainman.*  
Pablo Gonzales \_\_\_\_\_, *Chainman.*  
 \_\_\_\_\_, *Asman.*  
 \_\_\_\_\_, *Flagman*

Subscribed and sworn to by the above-named persons before me this 25th  
 day of Nov, 1918

Louis J. Payne  
Notary Public

My commission expires Feb. 20-1919.



FINAL OATH OF U. S. MINERAL SURVEYOR.

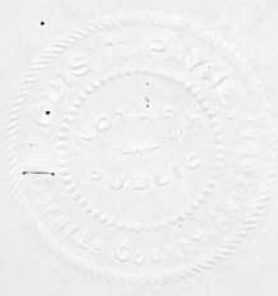
I, E.T. Morton, U. S. Mineral Surveyor, do solemnly swear that, in pursuance of instructions received from the United States Surveyor General for Arizona, dated September 26, 1918, I have, in strict conformity to the laws of the United States, the official regulations and instructions thereunder, and the instructions of said Surveyor General, faithfully and correctly executed the survey of the Mining Claim of Phelps Dodge Corporation, known as the Ella Belle, Dorcas lodes, situate in Copper Mountain Mining District, Greenlee County, Arizona, in Sections 17 & 20 Uns., Township No. 4 S., Range No. 29 E., G. & S. R. B. & M., and designated as Survey No. 3546, 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 125th
day of Nov., 1918

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,

March 4, 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 ELIA BELLE, DORCAS LODES

situate in COPPER MOUNTAIN

Mining District, GREENLEE County, ARIZONA.

in Section s 17&20, uns township No. 4 S., Range No. 29 E., and

designated as Survey No. 3546, 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 each of mining claims by claimant or its grantors, and that said improvements consist of 2 cuts, tunnels and 1 shaft, total value \$1700.

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

March 4, 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

ELLA BELLE, DORCAS LODES

situate in COPPER MOUNTAIN mining district, GREENLEE County, ARIZONA.

in Section 17 & 20, uns., Township No. 4 S., Range No. 29 E.

, designated as Survey No. 3546

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

Surveyor, Sept. 28-Oct. 3, 1918, under my instructions dated

Sept. 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 of Frank O. Frost

U. S. Surveyor General for Arizona.