

MINERAL SURVEY No. 4162

Arizona Land District

**FIELD NOTES**

OF THE SURVEY OF THE MINING CLAIM OF

Phelps Dodge Corporation, Assignee of  
Mrs. J.T. Wilkes, Widow of Len Scott, Deceased, (Original locator, March 1, 1909)

KNOWN AS THE

ALIANZA Lode  
Copper Mountain Mining District,  
Greenlee County, Arizona.

Section 22, Township 4 S., Range 29 E.

Surveyed under instructions dated April 20, 19 33.

By J. N. Stevens  
U. S. Mineral Surveyor.

Claim located See amended location notice, ~~1917~~

Survey commenced May 3, 19 33

Survey completed May 5, 19 33

Address of claimant John H. Page & Co., Attys.,  
Luhrs Bldg., Phoenix, Arizona.

DATES OF AMENDED LOCATIONS

-----  
-----  
-----

Feet

MINERAL SURVEY NO. 4162

Mineral Survey No.4162 was made with a Gurley Mountain transit with horizontal limb 6.5 ins. diam., having two opposite verniers and full vertical circle, 5 ins. diam. having one double vernier, the verniers read to one minute of arc.

The instrument was in good condition at the time of the survey and all adjustments were in good order. An A-M altitude observation for azimuth and at noon on the meridian for latitude and time were made at a corner of the survey, the details of which observations are shown in the calculation sheets herewith submitted for examination

All azimuths of this record are referred to the true meridian, by the method of deflection angles and calculated courses.

The lines were measured with a Lufkin steel tape, 500 ft. in length, graduated every foot, with the first and last foot graduations to tenths and hundredths.

The tape was correct at the time of the survey. All lines and connections of this survey were run directly upon the ground. The magnetic variation observed at each corner gave a uniform value of 13° 45'E.

ALIANZA Lode.

Beginning at Cor No.1 of the Alianza, identical with the Loc. Mon. on the Section line bet. Secs. 15 and 22, T.4 S.R. 29 E., and on line 1-2 Sur. No.3599, Final lode, Claimant herein, Where I -

Set an iron pipe 2 ins. Diam. with cap on top, 24 ins. above ground set 18 ins. in the ground and surrounded with md of stone, stamped 1 A - 4162, from which the 1/4 Cor. bet. Secs. 15 and 22, T.4 S. R. 29 E. brs N.89°57'W., 386.7 ft. dist. consisting of a G.L.O. iron post firmly set and stamped 1/4 S.15, § 22.

No other bearings are available.

Thence S. 89°57'E.

280.0 Rim rock brs. southerly.

341.3 To N. end center, identical with the Loc. Mon.

A mesquite post 3 ins. diam. by 4 ft. high, set firmly in the ground and surrounded with md. of stone, lkd. N. Cr. A.

Feet.

MINERAL SURVEY No.4162  
ALIANZA Lode.

- 570.00 Gulch brs. northeasterly.
- 682.60 To Cor. No.2, identical with the Loc. Mon., on the Sec. line bet. Secs. 15 and 22, T.4 S. R.29 E. where I -  
Set an iron pipe 2 ins. diam. with cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone, stamped 2 A - 4162.  
No bearings are available.  
Thence S. 28°32'W.
- 54.0 To Cor. No.4, Sur. No. 3503, Gladiator lode, claimant herein, hereinafter described.
- 355.5 To W. end center Sur. No. 3503 Gladiator lode, a md of stone, no markings.
- 425.00 Rim Rock brs. northwesterly.
- 656.47 To Cors. Nos. 3 and 4, Sur. No. 3503, Gladiator and Gladiator No.6 lodes respectively, hereinafter described.
- 958.47 To W. end center, Sur. No. 3503, Gladiator No.6 lode, a md. of stone, no markings.
- 1187.0 Intersect line 5-6, Sur. No. 922 Snow Storm lode, claimant herein at N.89°33' E.,872.55 ft. from Cor. No.5.
- 1260.57 To Cor. No.3, Sur. No.3503 Gladiator No.6 lode, on line 4-1, Sur. No.3503 Gladiator No.2 lode at S.55°18'E.456.4 ft. from Cor. NO.4 hereinafter described.
- 1350.2 To Cor. No.3 Identical with Loc. Mon. Where I-  
Set an iron pipe 2 ins. diam. with cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone stamped 3 A - 4162.  
Cor. No.1 Sur. No.3503 Gladiator No.2 lode brs.S.87°24'E.,167.67 ft. dist.  
No other bearings are available.  
Thence N. 89°57'W.
- 341.3 To S. end center, identical with Loc. Mon.  
A juniper post 3 ins. diam. by 4 ft. high, set firmly in the ground and surrounded with md of stone mkd S. Cr. A.
- 660.14 Intersect lines 1-2 and 3-4, Sur. Nos. 3599 and 3503, Gladiator

Feet.

MINERAL SURVEY No.4162  
Alianza Lode.

No.1 and Gladiator No.2 lodes respectively, claimant herein at

S.44°07'W., 470.8 ft. from Cors. Nos. land 4.

682.6 To Cor. No.4, identical with Loc. Mon. Where I-

Set an iron pipe 2 ins. diam. with cap on top, 24 ins. above  
ground, set 18 ins. in the ground and surrounded with md of stone,  
stamped 4 A -4162.

Cor. No.1 Sur. No.3599 Gladiator No.1 and Cor. No.4 Sur. No.3503

Gladiator No. 2 lode, brs. N. 46°01'E.486.68 ft. dist. thence

(From Records) Cor. No.5 Sur. No.922 Snow Storm lode brs. S.66°23'W.  
504.44 ft. dist.

No other bearings are available.

Thence N.28°32'E.

156.4 Intersect line 5-6 Sur. No.922 Snow Storm lode at N.89°33'E.186.68  
ft. from Cor. No.5.

480.0 Intersect line 4-1 Sur. No.3599 Gladiator No.1 lode at N.55°18'W.,  
147.08 ft. from Cor No.1, also intersect Cor. No.2 Sur. No.3599  
Final lode.

1350.2 To Cor. No.1, the place of beginning.

LODE LINES.

The presumed course of the vein of the lode location embraced in this  
survey, counted from the point of discovery is

S.28°32'W., 635.0 ft. and N.28°32'E., 715.2 ft.

AREA.

	Acres.
Total area, Alianza lode -----	18.597
Area in conflict with	
Tract A hereinafter described -----	1.250
Tract B hereinafter described -----	0.430
Sur. No.3503 Gladiator No.2 lode -----	3.030
Exclusive of its conflict with Tract A -	1.780
Sur. No.3599 Gladiator No.1 lode -----	0.893
Exclusive of its conflict with tract B -	0.463
Sur. No.922, Snow Storm lode -----	2.201

MINERAL SURVEY No. 4162  
ALIANZA Lode

TRACT A.

That portion of Sur. No. 3593, Gladiator No. 2 lode, in conflict with this survey, excluded by said Gladiator No. 2 lode in favor of a location now abandoned, is bounded and described as follows:

Beginning at Cor. No. 3 Alianza lode, running N. 61° 28' W., 492.42 ft. to line 3-4 Gladiator No. 2 lode, thence N. 44° 07' E., 143.94 ft. to Cor. No. 4 Gladiator No. 2 lode and Cor. No. 1, Sur. No. 3599 Gladiator No. 1 lode, thence S. 55° 18' E., 456.40 ft. to Cor. No. 3 Gladiator No. 6 lode, thence S. 28° 32' W., 89.63 ft. to place of beginning. Containing 1.250 Acres.

TRACT B.

That portion of Sur. No. 3599, Gladiator No. 1 lode, in conflict with this survey, excluded by said Gladiator No. 1 lode in favor of a location now abandoned, is bounded and described as follows:

Beginning at Cor. No. 1, Gladiator No. 1 lode, running S. 44° 07' W., 143.94 ft. to point, thence N. 61° 28' W., 107.56 ft. to line 4-1 Alianza lode, thence N. 28° 32' E., 154.45 ft. to line 4-1 Gladiator No. 1 lode and Cor. No. 2 Final lode of same survey, thence S. 55° 18' E., 147.08 ft. to place of beginning. Containing 0.430 acres.

LOCATION.

This survey is located in the N. 1/2 Sec. 22, T. 4 S. R. 29 E., G. & S. R. M.

EXPENDITURE OF \$500.00

I certify that the value of the labor and improvements made upon or for the benefit of the location embraced in said mining claim by the claimant or its grantors is not less than \$500 and that said improvements consist of:

- No. 1 The discovery shaft of the Alianza lode, the center of which being the discovery point is on the center line, 635 ft. from the center of line 3-4, 4 x 6 ft. 8 ft. deep. Value \$100.00
- No. 2 A tunnel, 4 x 6 ft. in size, the portal of which is on the center line, 740 ft. from the center of line 3-4, running S. 28° 32' W., 20 ft. to breast. Value \$200.00

MINERAL SURVEY NO. 4162  
 ALIANZA Lode.  
 EXPENDITURE OF \$500.00

- No.3 A shaft on the center line, 550 ft. from the center of line 3-4  
 4 x 6 ft. 25 ft. deep.  
 Value \$250.00
- No.4 A shaft, the center of which brs. from Cor. No.3, N.15°30'W.,  
 475 ft., 4 x 6 ft. 10 ft. deep.  
 Value \$100.00
- No.5 A shaft, the center of which brs. from Cor. No.3 N.23°30'W.,  
 430.0 ft. 4 x 7 ft. 100 ft. deep. at 20 ft. from the surface is a  
 drift 4 x 6 ft. running N.40°E., 30 ft. to breast, at the same  
 point is another drift 4 x 6 ft. running S.40°W., 50 ft. to breast,  
 both stoped to surface.  
 Value Shafts and drifts \$2000.00
- No.6 A shaft, the center of which brs. from Cor No.3 N.59°W., 345 ft.  
 5 x 12 ft. 10 ft. deep.  
 Value \$200.00

OTHER CORNER DESCRIPTIONS.

Sur. No.3503, Gladiator, Gladiator No.2 and Gladiator No.6 lodes ,  
 all corners consist of 4 x 6 in. pine posts, firmly set and properly  
 marked. All lines are correct as approved, except Cor. No.3 Gladiator  
 and Cor. No.4 Gladiator No.6, the post is missing but its exact  
 position was determined from the old monuments which surrounded the  
 post, Line 3-4 Gladiator was found to be N.28°32'E., 602.47 ft.  
 instead of 603 ft. as approved, and line 3-4 Gladiator No.6 was  
 found to be N.28°32'E., 602.47 ft. instead of 603 ft. as approved.

Sur. No.3599, Gladiator No.1 and Final lodes. All corners consist  
 of 4 x 6 in. pine posts, firmly set and properly marked. I find all  
 lines to be correct as approved.

Sur. No.922 Snow Storm lode. All corners of this Sur. have become  
 obliterated, leaving no evidence of their original positions. Its  
 conflict with this Sur. was therefore calculated from the records.

ADJOINING CLAIMS.

On the east by Sur. No.3503 Gladiator and Gladiator No.6 lodes,  
 On the South by Sur. No. 3503, Gladiator No.2, Sur. No.3599 Gladiator  
 No.1 and Sur. No.922 Snow Storm lode. On the West by Sur. No. 3599,  
 Gladiator No.1 and Final lodes.

There are no other adjoining or conflicting lodes.

# FINAL OATHS FOR SURVEYS

## LIST OF NAMES

A list of the names of the individuals employed by T.N. Stevens

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 Alianza

and showing the respective capacities in which they acted.

E.G. Lewis, Chainman.

Chainman.

Arman.

Flagman.

## FINAL OATHS OF ASSISTANTS

~~We~~, I, E.G. Lewis

~~and~~ do solemnly swear that ~~we~~ <sup>I</sup> assisted

T.N. Stevens, United States Mineral Surveyor, in marking the corners and surveying

the boundaries of the mining claim of Phelps Dodge Corporation

known as the ALIANZA

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~~ <sup>my</sup> knowledge and belief, faithfully

and correctly executed, and the corner and boundary monuments established according to law and the instruc-

tions furnished by the Office Cadastral Engineer, at Phoenix, Arizona.

E.G. Lewis, Chainman.

Chainman.

Arman.

Flagman.

Subscribed and sworn to by the above-named persons before me this 13th

day of May, 1933

G. G. G. G.  
Notary Public

FINAL OATH OF U. S. MINERAL SURVEYOR.

I, T.N. Stevens, U. S. Mineral Surveyor, do solemnly swear that, in pursuance of instructions received from the Office Cadastral Engineer, at Phoenix, Arizona, dated April 20, 1933, I have, in strict conformity to the laws of the United States, the official regulations and instructions thereunder, and the instructions of said Office Cadastral Engineer, faithfully and correctly executed the survey of the Mining Claim of Phelps Dodge Corporation, known as the ALIANZA Lode, situate in Copper Mountain Mining District, Greenlee County, Arizona, in Section 22, Township No. 4 S., Range No. 29 E. G. & S. R. B & H., and designated as Survey No. 4162, 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 Office Cadastral Engineer with said instructions, and that all 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.

T.N. Stevens, U. S. Mineral Surveyor.

Subscribed and sworn to by the said T.N. Stevens

U. S. Mineral Surveyor, before me Tom K. Richey, a Notary Public in and for the County of Pima, State of Arizona this 26<sup>th</sup> day of July, 1933.

My Commission Expires Jan. 30-1934.

Tom K. Richey, Notary Public.



OFFICE CADASTRAL ENGINEER'S FINAL CERTIFICATE ON FIELD NOTES

Department of the Interior

PUBLIC SURVEY OFFICE

Phoenix, Arizona

August 25, 1933

Acting Office Cadastral Engineer at Phoenix, 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 ALIANZA lode

situate in Copper Mountain

Mining District Greenlee County Arizona

in Section 22, Township No. 4 South, Range No. 29 East, and

designated as Survey No. 4162, 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.

I further certify that Five Hundred Dollars worth of labor has been expended or improvements made upon, or for the benefit of, each location embraced in said mining claim by claimant Phelps Dodge Corporation or its grantors, and that said improvements consist of Five (5) shafts, One (1) tunnel, and Two (2) drifts

Value \$2,850.00

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.

Sherman C. Fiske Sherman C. Fiske

Acting Office Cadastral Engineer.

CERTIFICATE OF APPROVAL OF FIELD NOTES AND SURVEY OF MINING CLAIM

DEPARTMENT OF THE INTERIOR PUBLIC SURVEY OFFICE

At Phoenix, Arizona

August 25, 1933

Acting I, Office Cadastral Engineer at Phoenix, 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

ALIANZA lode

situate in Copper Mountain mining district, Greenlee County, Arizona

in Section 22, Township No. 4 South, Range No. 29 East

designated as Survey No. 4162

executed by T. N. Stevens, U. S. Mineral

Surveyor, May 3, to May 5, 1933, under my instructions dated

April 20, 1933, have been critically examined and the necessary

corrections 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.

Sherman C. Fiske

Sherman C. Fiske

Acting Office Cadastral Engineer.