

Plotted x

DE-81923

4-683

MINERAL SURVEY No. 3915

Arizona Land District.

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Phelps Dodge Corporation

KNOWN AS THE

CONSOLIDATE NO. 1 and CONSOLIDATE NO. 2 lodes.

Greenlee Gold Mountain Mining Mining District,

Greenlee County, Arizona

Section 2, Township 4 S., Range 29 E.

Surveyed under instructions dated September 5, 1923

by J. N. Stevens

U. S. Mineral Surveyor.

Claim located See location notices, 19

Survey commenced September 24, 1923

Survey completed September 27, 1923

Address of claimant Jos. P. Hodgson, Agent and Atty. in fact. Morenci, Arizona.

DATES OF AMENDED LOCATIONS.

Feet

MINERAL SURVEY NO. 3915  
CONSOLIDATE NO.1 Lode.

Beginning at Cor. No.1.

A granite rock 8 x 8 x 10 ins. above ground, set 12 ins. in the ground, chiseled with cross (x) 1 C No.1-3915 , with md. of stone 3 1/2 ft. base by 3 ft. high alongside, whence the 1/4 Cor. bet. Secs 2-3 T. 4 S. R. 29 E. brs. S. 89° 57' W., 1380.65 ft.  
Loc. Mon. brs. N. 38° 43' W., 4.5 ft.

No other bearings are available.

Thence S. 38°43' E.  
Va. 13° 30' E.

300.00 To W. end center.

A pine post 4 ins. sq. by 4 ft. high, set firmly in the ground and surrounded with md. of stone 3 1/2 ft. base by 3 ft. high, scribed W. Cr. C No.1

600.00 To Cor. No.2, identical with Loc. Mon. and Cor. No.3 Sur. No. 1576 Copper Bullion lode, also Cor. No.4 Sur. No.3058 Olivette lode, both belonging to claimant herein.

A pine post 4 ins. sq. by 4 ft. high, set firmly in the ground and surrounded with md. of stone 3 1/2 ft. base by 3 ft. high, scribed 2-C-No.1-3915, 3-CB - 1576, and 4-C - 3058.

No bearings are available.

Thence N. 52° 39' E.  
Va. 13° 30' E.

729.00 To S. side center Mon., identical with N. side center Mon. Sur. No. 1576 Copper Bullion lode.

1458.00 To Cor. No.3, identical with Loc. Mon. and Cor. No.3 Consolidate No.2 lode of this Sur. also Cor. Nos.4-2, Sur. No.1576 Copper Bullion and Solid Copper lodes respectively.

A pine post 4 ins. sq by 4 ft. high, set firmly in the ground and surrounded with md of stone 3 1/2 ft. base by 3 ft. high, scribed 3 C No.1, 3 C No.2 -3915 and 4 CB, 2 SC- 1576, whence U.S.L.M. No.1576 brs. S. 6° 07' E., 1079.0 ft.

No other bearings are available.

Thence N. 38° 43' W.  
Va. 13° 30' E

Feet.

## MINERAL SURVEY NO. 3915

## CONSOLIDATE No.1 Lode - Cont'd.

300.00 To E. end center, identical with W. end center Consolidate No.2 lode of this Sur.

A pine post 4 ins sq by 4 ft. high, set firmly in the ground and surrounded with md of stone 3 1/2 ft. base by 3 ft. high, scribed E. Cr. C No.1 and W. Cr. C No.2.

600.00 To Cor. No.4, identical with Loc. Mon. and Cor. No.4 Consolidate No.2 lode of this Sur.

A pine post 4 ins. sq. by 4 ft. high, set firmly in the ground and surrounded with md. of stone 3 1/2 ft. base by 3 ft. high, scribed 4 C No.1, 4 C No.2- 3915. with md of stone 3 1/2 ft. base by

No bearings are available.

Thence S. 52° 39' W.

Va. 13° 30' E.

1458.00 To Cor. No.1, the place of beginning.

## CONSOLIDATE NO. 2 lode.

Beginning at Cor. No.1, identical with Loc. Mon.

A pine post 4 ins. sq. by 4 ft. high, set firmly in the ground and surrounded with md. of stone 3 1/2 ft. base by 3 ft. high, scribed 1 C No.2-3915, whence the N. 1/4 Cor. Sec. 2 T. 4 S. R.29 E., brs. N. 38° 18' W., 1552.4 ft.

No other bearings are available.

Thence S. 38° 43' E.

Va. 13° 30' E.

300.00 To E. end center,

A pine post 4 ins sq by 4 ft. high, set firmly in the ground and surrounded with md of stone 3 1/2 ft. base by 3 ft. high, scribed E. Cr. C. No.2.

580.08 Intersect line 3-4 Sur. No. 5058 Missing Link lode at N. 40° 01' E., 15.5 ft. from Cor. No.3

600.00 To Cor. No.2, identical with Loc. Mon. and Cor. No.3 Sur. No.1576 Solid Copper lode.

A porphyry rock 5 x 9 x 12 ins. above ground, set 12 ins. in the ground, chiseled with cross (X) 2 C/No.2-3915, 3 S C-1576 with md. of stone 3 1/2 ft. base by 3 ft. high alongside.

Feet.

MINERAL SURVEY NO. 3915

Cor. No. 3 Sur. No. 3058 Missing Link lode brs. N. 80°42' W., 22.72 ft.

No other bearings are available.

Thence S. 52° 37' W.  
Va. 13° 30' E.

15.17 Intersect line 2-3 Sur.No. 3058 Missing Link lode at S. 38° 50' E. 16.54 ft. from Cor.No. 3  
700.00 To S. side center Mon., identical with N. side center Mon. Sur.

1576 Solid Copper lode. A pine post 4 ins. sq by 4 ft. high set firmly in the ground and surrounded with md. of stone, scribed N. side Cr. S C and S. S Cr.C. No.2.

1337.03 To Cor. No.3, identical with Loc. Mon. and Cor. No.3 Consolidate No.1 lode of this Sur. also Cor. Nos. 2 and 4 Sur. No.1576 Solid Copper and Copper Bullion lodes respectively, heretofore described.

Thence N. 38° 43' W.  
Va. 13° 30' E.

300.00 To W. end center, identical with E. end center Consolidate No.1 lode of this Sur., heretofore described.

600.00 To Cor. No.4, identical with Loc. Mon. and Cor. No.4 Consolidate No.1 lode of this Sur. Heretofore described.

Thence N. 52° 37' E.  
Va. 13° 30' E.

1337.03 To Cor. No. 1, the place of beginning.

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LODE LINES.

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

Consolidate No.1 lode, 630 ft.S.52° 39'W.,and 828.ft.N. 52°39'E.

Consolidate No.2 lode, 325 ft.S.52° 37'W., and 1012.03ft.N.52°37'E.

AREA.

	Acres.
Total area Consolidate No.1 lode-----	20.077 ✓
Total area Consolidate No.2 lode -----	18.411 ✓
Area in conflict with:	
Sur. No.3058 Missing Link lode-----	0.606 ✓

The survey of each lode of this location is identical with the respective locations as staked upon the ground, except as hereinbefore noted.

LOCATION.

## MINERAL SURVEY NO. 3915

## LOCATION.

This survey is located in section 2 T. 4 S., R. 29 E. G & S. R. M., in the Greenlee Gold Mountain Mining District, Greenlee County, Arizona.

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## EXPENDITURE OF FIVE HUNDRED DOLLARS.

I certify that the value of the labor and improvements made upon, 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:

## CONSOLIDATE NO.1 lode.

No.1 the discovery tunnel, the mouth of which being the discovery point is on the center line 630 ft. from the center of line 1-2 4 x 6 ft. running N. 50° E., 33 ft. to face.

Value \$330.00

No.2 A tunnel, the mouth of which brs. from Cor. No.1 N. 58° E., 510 ft. 4 x 6 ft. running north 40 ft.

Value \$400.00

No.3 A tunnel, the mouth of which brs. from Cor. No.2 N. 14° W., 190.0 ft., 4 x 6 ft. running N. 48° E., 40 ft.

Value \$400.00

## CONSOLIDATE No.2 lode.

No.1 The discovery point on the center line 325 ft. from the center of line 3-4. A md. of stone, on cropping.

No value.

No.2 A tunnel, the mouth of which brs. from Cor. No.3 N. 13°45'E., 220 ft. 4 x 6 ft. running N. 10° W., 150 ft.

Value \$1500.00

## INSTRUMENT.

This survey was made with a Gurley mountain transit, the courses were deflected from the true meridian, as determined by direct solar observations. The distances were measured with a 500 ft. steel tape.

## MINERAL SURVEY NO. 3915

## REPORT.

The lode line of each location of this claim was run directly upon the ground, and the corners were established by running around the claims.

The 1/4 Cor. bet. Secs. 2-3 and the N. 1/4 Cor. Sec. 2 consist of iron posts with brass caps on top, stamped 1/4 and the number of the Section.

Sur. No.1576 Copper Bullion and Solid Copper lodes. All corners consist of pine posts properly set and scribed with the number of the corner and the survey. Cor. No.3 Solid Copper lode was found to be in badly decayed condition, I set a porphyry rock in the exact position of the original corner, chiseled with the number of the corner and the survey.

Lines 3-4 and 2-3 Sur. No.1576 Copper Bullion and Solid Copper lodes respectively fail to furnish the course and distances as approved, (N 52°30' E., 1479 and N.52°30'E., 1362ft.) and same are properly given in these field notes.

Sur. No.3058 Missing Link and Olivette lodes, all corners consist of pine posts properly set and scribed with the number of the corner and the survey.

U.S.L.M. No.1576 is a pine timber 6 x 8 ins. set in md of stone 6 ft. base by 4 1/2 ft. high, showing 8 ft. above ground. Scribed U.S.L.M. No.1576.

## ADJOINING CLAIMS.

On the north by Consolidate Nos 3 and 4 lodes, unsurveyed, claimant herein.

On the east by Summit No.1 lode, unsurveyed and Sur. No.3058 Missing Link lode, both belonging to claimant herein.

On the south by Sur. No.1576 Solid Copper and Copper Bullion lodes, belonging to claimant herein.

On the west by Sur. No.3058 Olivette lode, <sup>and</sup> Euclaire and Virginia lodes, unsurveyed, all belonging to claimant herein.

MINERAL SURVEY NO. 3915

SOLAR OBSERVATION.

*do not include in transcript*

Direct Solar observation taken Tues. Sept. 25, 1923 at 8:28 AM solar time. -Sun bisected. Lat. 33°06' Lon. 109°20'

Difference in time 3h 45m

Apparent declination = 0° 32' 56.1" ✓

Dec'l =           3' 39"           ✓  
          0° 36' 35" ✓

P = 90° - Dec'l = 90° 36' 35"

L = 33° 06'

H = 31° 03'

P = 90° 36' 35"

2) 154° 45' 35"

S = 77° 22' 47" ✓

$$\sin 1/2 A = \frac{\sqrt{\sin(S-L)(S-H)}}{\cos L \cos H}$$

S-L = 44° 16' 47" ✓

S-H = 46° 19' 47" ✓

9.8439565 ✓

9.8593337 ✓

0.0769018 ✓

0.0671624 ✓

2) 19.8473544

9.9236772 = 57° 01' = 1/2 A.

114° 02' = A.

180° - 114° 02' = S. 65° 58' E. = Course of Sun.

118° 37' Angle to right from sun.

65° 58'

S. 52° 39' W. = Course of line.

Set up at Cor. No. 3 Consolidate No. 1 lode F.S. Cor. No. 2.

# 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 CONSOLIDATE NO. 1 and CONSOLIDATE NO. 2 lodes. \_\_\_\_\_  
 and showing the respective capacities in which they acted.

\_\_\_\_\_John H. Dexter\_\_\_\_\_, *Chairman.*  
 \_\_\_\_\_, *Chainman.*  
 \_\_\_\_\_, *Asman.*  
 \_\_\_\_\_, *Flagman.*

## FINAL OATHS OF ASSISTANTS.

~~We~~, I, John H. Dexter  
 and \_\_\_\_\_, do solemnly swear that we 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 CONSOLIDATE NO. 1 and CONSOLIDATE NO. 2 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 <sup>my</sup> ~~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.

John H. Dexter, *Chairman.*  
 \_\_\_\_\_, *Chainman.*  
 \_\_\_\_\_, *Asman.*  
 \_\_\_\_\_, *Flagman.*

Subscribed and sworn to by the above-named persons before me this 6<sup>th</sup>

day of December, 1923

*My Commission Expires June 4, 1924*

Label M. Lander  
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 United States  
Surveyor General for Arizona, dated  
September 5., 1923, 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  
CONSOLIDATE NO. 1 and CONSOLIDATE NO. 2 lodes,  
situate in Greenlee Gold Mountain Mining District,  
Greenlee County, Arizona, in Section  
2, Township No. 4 S., Range No. 29 E. G. & S. R. M.,  
and designated as Survey No. 3915, 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.

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

Subscribed and sworn to by the said T. N. Stevens  
U. S. Mineral Surveyor, before me Isabel M. Lander  
a Notary Public this 6<sup>th</sup>  
day of December, 1923

My Commission Expires June 4, 1924

Isabel M. Lander  
Notary Public

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

DEPARTMENT OF THE INTERIOR,

OFFICE OF U. S. SURVEYOR GENERAL,

Phoenix, Arizona.

February 25, 1924.

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 CONSOLIDATE NO. 1, and CONSOLIDATE NO. 2 lodes,

situate in Greenlee Gold Mountain

Mining District, Greenlee County,

Arizona, in Section 2, Township No. 4 S.,

Range No. 29 E., and designated as Survey

No. 3915, 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 <sup>each of</sup> said mining claims by claimant or its grantors, and that said improvements consist of 4 tunnels, total value \$2630.

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.

Charles M. Donahoe

United States Surveyor General for Arizona.

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**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,

February 25, 1924

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

Phelps Dodge Corporation, known as the

CONSOLIDATE NO. 1 and CONSOLIDATE NO. 2 lodes

situate in Greenlee Gold Mountain mining district,

Greenlee County, Arizona

in Section 2, Township No. 4 S., Range No. 29 E.

, designated as Survey No. 3915

executed by T. N. Stevens, U. S. Mineral Surveyor, September 24 - 27, 1923, under my instructions dated September 5, 1923, 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.

*Charles M. Donohoe*

U. S. Surveyor General for Arizona