

MINERAL SURVEY No. 3944

Arizona

Land District.

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Phelps Dodge Corporation

KNOWN AS THE

EVOLUTOR lode

Greenlee Gold Mountain

Mining District,

Greenlee

County,

Arizona.

Section s 2-3

Township

4 S.

Range 29 E.

Surveyed under instructions dated March 21, 19 24

by

T. N. Stevens

U. S. Mineral Surveyor.

Claim located See location notice, 19

Survey commenced April 28, 19 24

Survey completed April 29, 19 24

Address of claimant Phelps Dodge Corporation, Morenci, Ariz.

DATES OF AMENDED LOCATIONS.

See Amended location notices.

Feet.

MINERAL SURVEY NO.3944

EVOLUTOR Lode.

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

A granite rock 5 x 8 x 10 ins. above ground, set 12 ins in the ground, chiseled with cross (x) 1 E - 3944, with md of stone 3 1/2 ft base by 3 ft. high alongside, whence the closing Cor. to Secs. 2-3

T. 4 S., R. 29 E., brs. N. 44° 18' W., 798.1 ft.  
U.S.L.M. No. 1576 bears S. 39° 29' 30" E. 3887.7 ft.  
An oak tree 6 ins. diam. brs. S. 74° W., 6.5 ft.

No other bearings are available.

Thence S. 58° 02' E.  
Va. 13° 30' E.

35.0 To N. end center. identical with Loc. Mon.

An oak post 4 ins. diam. 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 N. Cr. E.

49.51 To Cor. No.2, identical with Loc. Mon. On line 2-3 Sur. No.2907

Sirdar lode, claimant herein at S. 27° 37' W. 74.1 ft. from Cor. No3

A granite rock 8 x 10 x 10 ins. above ground, set 12 ins. in the ground, chiseled with cross (x) 2 E- 3944, with md of stone 3 1/2 ft. base by 3 ft. high alongside.

No other bearings are available.

Thence S. 27° 37' W.  
Va. 13° 30' E.

1429.84 To Cor. No.3, identical with Cor. No.2 Sur. No.2907 Sirdar lode On line 5-1 Sur. No.2907 Mikado Lode. at. S. 62° 23' E., 297.8 ft. from Cor. No.5 and N. 62° 23' W., 301.6 ft. from Cor. No.1.

A porphyry rock 8 x 10 x 18 ins. above ground , set 12 ins. in the ground , chiseled with cross (x) 3 E - 3944, 2 S - 2907 with md. of stone 3 1/2 ft. base by 3 ft. high alongside.

Loc. Mon. brs. S. 27° 37' W., 70.0 ft.

No other bearings are available.

Thence N. 70° 06' 30" W.  
Va. 13° 30' E.

303.9 To Cor. No.4. On line 4-5 Sur. No.2907 Mikado lode at.S.32°17' W. 41.0 ft. from Cor. No.5 and N. 32°17' E., 600.0 ft. from Cor. No.4

Feet.

## MINERAL SURVEY NO. 3944

## EVOLUTOR Lode.

Identical with Cor. No.4 Sur. No.1640 Veiled Prophet No.1 lode claimant herein.

A granite rock 6 x 12 x 12 ins above ground, set 12 ins in the ground, chiseled with cross (x) 4 E - 3944, 4 V P-1640 with md of stone 3 1/2 ft. base by 3 ft. high alongside.

No bearings are available.

Thence N. 58° 02' W.  
Va. 13° 30' E.

4.67 To S. end center, identical with Loc. Mon.

A pine post 4 ins. diam. 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 S. Cr. E

306.77 To Cor. No. 5 . On line 3-4 Sur. No.1640 Veiled Prophet No.1 lode

A cross (x) chiseled on granite ledge, 5 ft. high by 15 ft. long 5 E-3944 with md of stone 3 1/2 ft. base by 3 ft. high alongside.

A pinon tree 5 ins. diam. brs. N. 56° W., 7.2 ft. Blazed and scribed 5-3944 -Bt.

Cor. No.1 Sur. No.1640 Veiled Prophet No.5 lode brs. S.67°16'40"W/  
243.6 ft.

Loc. Mon. brs. N. 58° 02' W., 75.7 ft.

No other bearings are available.

Thence N. 38°49' E.  
Va. 13° 30' E.

309.55 Intersect line 1-2 Sur. No.1640 Veiled Prophet No. 5 lode at N. 51° 19' E., 536.44 ft. from Cor. No.1 , and. S. 51° 19' W., 878.96 ft. from Cor. No.2 .

329.9 To Cor. No.6.

A granite rock 8 x 8 x 12 ins. above ground, set 12 ins. in the ground, chiseled with cross (x) 6 E - 3944, with md of stone 3 1/2 ft base by 3 ft. high alongside.

No bearings are available.

Thence N. 51° 15' 30" E.  
Va. 13° 30' E.

859.1 Intersect line 2-3 Sur. No.1640 Veiled Prophet No. 5 lode at 133°41'

Feet.

MINERAL SURVEY NO. 3944

EVOLUTOR Lode.

N. 38° 41' W., 5.3 ft. from Cor. No.2 .

1230.86 To Cor. No.1, the place of beginning.

LODE LINE.

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

210.0 ft. S. 38° 49' W., and 1290.0 ft. N. 38° 49' E. ✓

AREA.

Total area Evolutor lode----- Acres. 12.038

Area in conflict with,  
Sur. No.2907 Mikado lode----- 0.146

Sur. No.1640 Veiled Prophet No.5 lode-- 0.096 ✓

The survey of this lode is identical with the amended location except as shown in foregoing field notes.

LOCATION.

This survey is located in the N.E. 1/4 Sec. 3, and the N.W. 1/4 Sec. 2 T. 4 S. R. 29 E.

EXPENDITURE OF FIVE HUNDRED DOLLARS.

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 five hundred dollars and that said improvements consist of:

No.1 the discovery point, on the lode line, 210 ft. from a point on line 4-5 , 4.67 ft. from Cor No. 4 . A md of stone on cropping.

No value.

No.2, a tunnel, the mouth of which hrs. from Cor. No. 3 N. 26° 15' W., 270. ft. 4 x 6 ft. running N. 50° W., 35 ft. to winze., 4 x 6 ft. 15 ft. deep. Thence N. 50° W. 35 ft. to face.

Total value \$850.0

No. 3 A tunnel, the mouth of which hrs. from Cor. No.3 N. 26° E. 710 ft. Caved - inaccessible.

## MINERAL SURVEY No. 3944

## EVOLUTOR Lode.

## 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.

## REPORT.

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

## Closing

The <sup>Closing</sup> Cor. to Secs. 2-3 T. 4 S., R. 29 E. consists of an iron post with brass cap on top, stamped S. 2, S. 3 - T. 4 S., R. 29 E. C C and S. 34 T. 3 S., R. 29 E. 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, 8 ft. above ground, scribed U.S.L.M. No. 1576.

Sur. No. 1640 Veiled Prophet No. 1 lode. Cor. No. 4 was a pine post 4 ins. sq. by 4 ft. high, found to be in badly decayed condition and unsuitable for permanent corner. I set a rock in the exact position of the original corner, chiseled with the number of the corner and the survey.

Sur. No. 1640 Veiled Prophet No. 5 lode. Cor. No. 1 consists of a md. of stone, No markings. No evidence of Cor. No. 2 could be found.

The record was resorted to to determine its conflict with this survey

Sur. No. 2907 Mikado and Sirdar lodes. All corners are pine posts.

Line 5-1 Mikado lode fails to furnish the distance as approved, 600.0, and same is properly given in these field notes.

Line 2-3 Sirdar lode fails to furnish the distance as approved (1500 ft) and same is properly given in these field notes.

Cor. No. 2 Sirdar lode had rotted completely off. I set a rock in the exact position of the decayed stump which was found, chiseled with the number of the corner and the survey.

The discrepancy between the tie lines from this survey and Survey No. 2907 to U.S.L.M. No. 1576, are due to error in the latter.

## MINERAL SURVEY NO. 3944

EVOLUTOR Lode.

## ADJOINING CLAIMS.

On the north by Sur. No.1640 Veiled Prophet No.5 lode.

On the east by Sur. No.2907 Sirdar lode.

On the south by Sur. Nos. 2907 and 1640, Mikado and Veiled Prophet No.1 lodes respectively.

On the west by Sur. No.1640 Veiled Prophet No.5 lode.

*Do not include in transcript.*

## SOLAR OBSERVATION.

Direct solar observation taken Monday April 28, 1924 At 2:43 P M

Solar time. Sun bisected Lat.  $33^{\circ} 07'$  Lon.  $109^{\circ} 20'$   
Difference in time 10 h.Apparent declination -  $14^{\circ} 09' 01.6''$  ✓ $7' 51''$  ✓Dec'l =  $14^{\circ} 16' 53''$  ✓P =  $90^{\circ}$  - Dec'l -  $75^{\circ} 43' 07''$  ✓L =  $33^{\circ} 07'$  $\sin \frac{1}{2} A \sqrt{\frac{\sin (S-L) (S-H)}{\cos L \cos H}}$ H =  $45^{\circ} 57'$ P =  $75^{\circ} 43' 07''$ 2)  $154^{\circ} 47' 07''$  ✓ $77^{\circ} 23' 34''$  ✓S-L =  $44^{\circ} 16' 34''$  ✓

9.8439281 ✓

S-H =  $31^{\circ} 26' 34''$  ✓

9.7173765 ✓

0.0769842 ✓

0.1578366 ✓

2)  $19.7961254$  ✓ $9.8980627$  ✓ =  $52^{\circ} 15' 30''$  =  $\frac{1}{2} A$  $104^{\circ} 31'$  = A. $180^{\circ} - 104^{\circ} 31' = 75^{\circ} 29' W.$  = bearing of sun. $42^{\circ} 08'$  Ang. to right. $117^{\circ} 37'$  $180$ N.  $62^{\circ} 23' W.$  bearing of line

Set up at Cor. No.4 Evolutor F.S to Cor. No.5 Sur. No.2907 Mikado.

# 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 EVOLUTOR Lode \_\_\_\_\_  
 and showing the respective capacities in which they acted.

\_\_\_\_\_  
I.P. Campbell \_\_\_\_\_, *Chainman.*  
 \_\_\_\_\_, *Chainman.*  
 \_\_\_\_\_, *Asman.*  
 \_\_\_\_\_, *Flagman.*

## FINAL OATHS OF ASSISTANTS.

We, I. I.P. Campbell  
 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 EVOLUTOR 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 <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 \_\_\_\_\_

\_\_\_\_\_  
I P Campbell \_\_\_\_\_, *Chainman.*  
 \_\_\_\_\_, *Chainman.*  
 \_\_\_\_\_, *Asman.*  
 \_\_\_\_\_, *Flagman*

Subscribed and sworn to by the above-named persons before me this 6<sup>th</sup>  
 day of May, 1924

\_\_\_\_\_  
[Signature]  
 \_\_\_\_\_  
Notary Public

My Commission Expires November 30, 1924

# 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 March, 21 1924, 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 EVOLUTOR lode, situate in Greenlee Gold Mountain Mining District, Greenlee County, Arizona, in Section 2-3, Township No. 4 S., Range No. 29 E. G. & S.R. M., and designated as Survey No. 3944, 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.

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

Subscribed and sworn to by the said T. N. Stevens  
 U. S. Mineral Surveyor, before me R. W. Saugworthy, Notary Public  
in and for Pima County, Arizona this 20<sup>th</sup>  
 day of June, 1924

*R. W. Saugworthy*  
 Notary Public, Pima Co., Ariz

*my comm exp  
 July 19<sup>1044</sup> 1928*



(4-688.)

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

DEPARTMENT OF THE INTERIOR,  
OFFICE OF U. S. SURVEYOR GENERAL,

Phoenix, Arizona.

August 19, 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 EVOLUTOR lode,  
situate in Greenlee Gold Mountain  
Mining District, Greenlee County,  
Arizona, in Sections 2-3, Township No. 4 S.,  
Range No. 29 E., and designated as Survey

No. 3944, 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 2 tunnels and 1 winze, total value  
\$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.

Charles M. Donohoe

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, .....

..... August 19 ....., 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 .....

....., known as the

..... EVOLUTOR lode .....

situate in ..... Greenlee Gold Mountain ..... mining district,

..... Greenlee ..... County, ..... Arizona .....

in Sections 2-3 ....., Township No. 4 S. ....., Range No. 29 E. .....

....., designated as Survey No. 3944 .....

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

Surveyor, ..... April 28 - 29 ....., 1924, under my instructions dated

..... March 21 ....., 1924, 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. .....