

June 21 - 2
1

4-683

MINERAL SURVEY No. 3945

Arizona Land District

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Phelps Dodge Corporation

KNOWN AS THE

GRAHAM No.1, NEVADA and EUCLAIRE Lodes

Greenlee Gold Mountain Mining District,

Greenlee County, Arizona

Sections 2 and 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 notices, 19

Survey commenced April 30, 19 24

Survey completed May 2, 19 24

Address of claimant Phelps Dodge Corporation, Morenci, Ariz.

DATES OF AMENDED LOCATIONS.

~~See amended location notices.~~

Feet.

MINERAL SURVEY NO. 3945

GRAHAM NO. 1 Lode.

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

A granite rock 8 x 10 x 11 ins. above ground, set 12 ins. in the ground, chiseled with cross (x) 1 G No.1-3945, 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. N. 43° 49' E., 410.8 ft.

Cor. No.2 Sur. No.2907 Raton lode, claimant herein, brs. S.35°27'E., 382.9 ft.

No other bearings are available.

Thence S.38°45'E.

Va. 13° 30' E.

300.0 To W. 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 W. Cr. G.1

374.95 Intersect line 1-2 Sur. No. 2907 Raton lode at N. 32°43' E., 23.02 ft. from Cor. No.2

600.00 To Cor. No.2, identical with Loc. Mon. and Cor. No.1 Euclaire lode of this Sur.

A granite rock 6 x 10 x 10 ins above ground, set 12 ins. in the ground, chiseled with cross (x) 2 G No.1, 1 E - 3945, with md of stone 3 1/2 ft. base by 3 ft. high alongside.

No bearings are available.

Thence N. 59°18' E.

Va. 13° 30' E.

650.0 Gulch brs. southeasterly.

1500.0 To Cor. No.3, identical with Loc. Mon. and Cor. No.4 Euclaire lode of this Sur. also Cor. No.1 Sur. No.3915 Consolidate No.1 lode, claimant herein.

A granite rock 8 x 8 x 10 ins. above ground, set 12 ins in the ground, chiseled with cross (x) 3 G No.1, 4 E, 1 3945 and 1 C No.1-3915 with md of stone 3 1/2 ft. base by 3 ft. high alongside

No bearings are available.

Thence N.38°43' W.

Va 13°30'E

Feet.	MINERAL SURVEY NO. 3945
	Graham No.1 lode - Cont'd.
300.0	<p>To E. end center, identical with Loc. Mon.</p> <p>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. G. No.1</p>
600.0	<p>To Cor. No.4 .</p> <p>A granite rock 8 x 12 x 10 ins above ground, set 12 ins. in the ground, chiseled with cross (x) 4 G. No.1-3945 with md of stone 3 1/2 ft. base by 3 ft. high alongside.</p> <p>No bearings are available.</p> <p>Thence S. 59° 18' W. Va. 13° 30' E.</p>
215.0	Gulch brs. southwesterly.
705.73	<p>Intersect line 1-2 Sur. No.2907 Raton lode at S.32° 43' W., 623.79 ft. from Cor. No.1 and N. 32° 43' E., 852.71 ft. from Cor. No.2.</p>
1500.0	To Cor. No.1, the place of beginning.
	NEVADA Lode.
	Beginning at Cor. No.1, identical with Loc. Mon.
	<p>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 N - 3945, whence the Cor. to Secs. 2-3-10-11, T.4S., R.29E. brs. S. 63°33' E., 557.1 ft.</p> <p>No other bearings are available.</p> <p>Thence N. 38°21' W. Va. 13° 30' E.</p>
304.9	To W. end center, identical with Loc. Mon.
	<p>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 W. Cr. N.</p>
609.8	To Cor. No. 2, identical with Loc. Mon.
	<p>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 N - 3945.</p> <p>A pine tree 12 ins. diam. brs. N. 52° E., 12.5 ft. Blazed and scribed, 2 - 3945. BT</p>

Feet.	MINERAL SURVEY NO. 3945.
	NEVADA Lode - Cont'd.
	No other bearings are available.
	Thence N. 61° 56' E.
	Va. 13° 30' E.
1499.79	Intersect line 1-2 Euclaire lode of this Sur. at N. 38° 43' W.,
	31.79 ft. from Cor. No.2
1500.00	To Cor. No.3, identical with Loc. Mon.
	A porphyry rock 6 x 10 X 12 ins. above ground, set 12 ins. in the ground, chiseled with Cross (x) 3 N-3945, with md. of stone 3 1/2 ft. base by 3 ft. high alongside.
	No bearings are available.
	Thence S. 38°21' E.
	Va. 13° 30' E.
31.75	To Cor. No. 2 Euclaire lode of this Sur. and Cor. No.3 Sur. No.
	3058 Olivette lode, claimant herein.
304.9	To E. 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 E. Cr. N.
334.4	To W. end center Sur. No.3058 Olivette lode. A md of stone.
609.8	To Cor. No.4, identical with Loc. Mon. On line 3-4 Sur. No. 3058
	Maine lode at S. 61° 56' W., 579.18 ft. from Cor. No.4
	A granite rock 8 x 8 x 10 ins. above ground, set 12 ins. in the ground, chiseled with cross (x) 4 N- 3945 with md. of stone 3 1/2 ft. base by 3 ft. high alongside.
	Cor. No.2 Sur. No.3058 Olivette lode brs. S. 38° 21' E., 26.85 ft.
	No other bearings are available.
	Thence S. 61° 56' W.
	Va. 13° 30' E.
816.32	To Cor. No.3 Sur. No. 3058 Maine lode.
1500.00	To Cor. No.1, the place of beginning.
	EUCLAIRE Lode.
	Beginning at Cor. No.1, identical with Loc. Mon. and Cor. No.2
	No.1 Graham lode of this Sur., heretofore described, whence the 1/4 Cor. bet. Secs. 2-3 T. 4 S., R. 29 E. brs. N. 6° 46' 40"W., 769.96 ft.

Feet.

MINERAL SURVEY NO. 3945

EUCLAIRE Lode - Cont'd.

Thence S. 38° 43' E.

Va. 13° 30' E

- 300.0 To W. end center, 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 W. Cr E.
- 568.21 Intersect line 2-3 Nevada lode of this Sur. at S. 61° 56' W., 0.21 ft. from Cor. No. 3.
- 600.0 To Cor. No. 2, identical with Loc. Mon. and Cor. No. 3 Sur. No. 3058 Olivette lode.
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 E -3945 and 3 O-3058.
- No bearings are available.
- Thence N. 59° 18' E.
Va. 13° 30' E.
- 825.0 Gulch brs. southeasterly.
- 1500.00 To Cor. No. 3, identical with Loc. Mon. and Cor. 4 Sur. No. 3058 Olivette lode, also Cor. No. 2 Sur. No. 3915, Consolidate No. 1 and Cor. No. 3 Sur. No. 1576 Copper Bullion lode, all 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 3 E-3945, 4 O - 3058, 2 C No. 1-3915 and 3 C B - 1576 U.S.L.M. No. 1576 brs. S. 81° 35' 30" E., 1287.8 ft.
- No other bearings are available.
- Thence N. 38° 43' W.
Va. 13° 30' E.
- 300.0 To E. end center, identical with Loc. Mon. and W. end Center Sur. No. 3915 Consolidate No. 1 lode.
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. E. and W. Cr. C. No. 1.

Feet.

MINERAL SURVEY NO. 3945

EUCLAIRE Lode - Cont'd.

600.0 To Cor. No. 4, identical with Loc. Mon. and Cor. No. 3 Graham No.1 lode of this Sur. also Cor. No.1 Sur. No. 3915 Consolidate No.1 lode, heretofore described.

Thence S.59° 18' W.
Va. 13° 30' E.

850.0 Gulch brs. southeasterly.

1500.00 To Cor. No. 1, the place of beginning.

-----oOo-----

LODE LINES.

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

Graham No. 1 lode, 550 ft.S. 59°18' W., and 950.0 ft.N. 59°18' E. ✓

Nevada lode, 34.0 ft. N. 61° 56' E., and 1466.0^{ft.} S. 61° 56' W. ✓

Euclaire lode, 740.0 ft., S.59° 18' W., and 760.0^{ft.} N. 59° 18' E. ✓

AREA.

	Acres
Total area Graham No.1 lode -----	20.459 ✓
Area in conflict with;	
Sur. No.2907 Raton lode-----	3.385
Total area Nevada lode -----	20.661 ✓
Area in conflict with;	
Euclaire lode of this Sur.-----	.000+
Total area Euclaire lode -----	20.459 ✓

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

LOCATION.

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

-----oOo-----

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:

GRAHAM No.1 Lode

MINERAL SURVEY NO. 3945

EXPENDITURE OF FIVE HUNDRED DOLLARS.

GRAHAM NO. 1 lode.

No.1 The discovery point on the center line 550.0 ft. from the center of line 1-2. A md of stone on cropping.
No value.

No.2 A shaft, the center of which brs. from Cor. No.3, S.74° W., 1020 ft. 5 x 20 ft., 10 ft. deep, caved.
Value \$300.0

No.3 A tunnel, the mouth of which brs. from Cor. No. 3 S. 79°15' W., 880 ft. 4 x 6 ft. running N. 78° W., 10 ft. to face.
Value \$100.0

No. 4 A tunnel, the mouth of which brs. from Cor. No. 3 S. 72° 30' W., 815 ft. 4 x 6 ft. running N. 40° 30' E., 100 ft. to face.
Value \$1000.0

No.5 A shaft, the center of which brs. from Cor. No. 3 S.79°15' W., 730 ft. 4 x 6 ft. 10 ft. deep.
Value \$100.0

No. 6 A shaft, the center of which brs. from Cor. No. 3 S. 68° W., 960 ft. 4 x 6 ft. 10 ft. deep.
Value \$100.

No. 7, A shaft, the center of which brs. from Cor. No. 3, S.66°15' W., 950.0^{ft.} 4 x 6 ft. 100. ft. deep.
Value \$1000.0

No. 8, A tunnel, the mouth of which brs. from Cor. No.3, S.64°15' W., 965. ft. 4 x 6 ft. running west 30 ft. to point, thence S. 48° W., 70 ft. to face, from point a drift 4 x 6 ft. running N. 70 ° W., 20 ft. to face.

Total value \$1200.0

NEVADA Lode.

No.1, the discovery tunnel, the mouth of which being the discovery point is on the center line 34.0 ft. from the center of line 3-4 4 x 6 ft. Running S. 66° W., 128. ft. to face.
Value \$1280.00

EUCLAIRE Lode.

No.1, the discovery cut, the face of which being the discovery point is on the center line 740. ft. from the center of line 1-2, 4 1/2 ft. wide 10 ft. face, running N. 59° E., 18 ft. to mouth., from its face is a tunnel 4 x 6 ft. running S. 43° W., 55 ft. to sta. 1 thence, S. 43° W., 35 ft. to face. From Sta. 1 A drift 4 x 6 ft.

MINERAL SURVEY NO. 3945

EXPENDITURE OF FIVE HUNDRED DOLLARS.

EUCLAIRE Lode -Cont'd.

running S. 45° E., 30 ft. to face. From Sta.1, another drift 4 x 6 ft., running N. 45° W., 8 ft. to face.

Value Cut and tunnel \$ 1380.0

No.2 A tunnel, the mouth of which brs. from Cor. No. 3 N. 89°30' W., 510 ft., 4 x 6 ft. running N. 40° 30' E., 60 ft. to face.

Value \$600.0

No.3 A cut, the mouth of which brs. from Cor. No. 3 S.87° 45'W., 460. ft. 4 1/2 ft. wide, 10 ft. face, running East 20 ft., to face.

Value \$125.0

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 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 Cor. to Secs. 2-3-10-11 are iron posts with brass caps on top, set firmly in the ground and stamped with the number of the sections.

Sur. Nos. 1576 Copper Bullion, 2907 Raton, 3058 Olivette and Maine lodes. All corners consist of pine posts properly set and scribed with the number of the corner and the survey. I find all courses and distances to be correct as approved.

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. 1576.

MINERAL SURVEY NO. 3945

ADJOINING CLAIMS.

On the North by Sur? No.2907 Raton lode, Eclipse, Graham No.2 and Consolidate No.4 lodes, unsurveyed.

On the east by Consolidate No.4 UNS., Sur. NO.3915 Consolidate No.1 and Sur. No.3058 Olivette Lodes.

On the south by Sur. No.3058 Olivette and Maine lodes and New Jersey lode, UNS.

On the west by Eclipse UNS. and Sur. No.2907 Raton lode.

All belonging to claimant herein.

SOLAR OBSERVATION.

do not include in transcript

Direct solar observation taken Wednesday, April 30, 1924 at 8:12 AM

Solar time-- Sun bisected. - Lat. $33^{\circ}06'$ Lon. $109^{\circ}21'$

Difference in time 3 h 30m. Apparent declination= $14^{\circ}46'17.9''$ ✓

$$\text{Dec}'1 = \frac{2\ 41}{14^{\circ}48'59''} \checkmark$$

$$P = 90 - \text{Dec}'1 = 75^{\circ}11' \checkmark$$

$$L = 33^{\circ}06'$$

$$H = 38^{\circ}26'$$

$$P = 75^{\circ}11'$$

$$2) 146^{\circ}43'$$

$$S = 73^{\circ}21'30'' \checkmark$$

$$\text{Sin } 1/2 A \checkmark \frac{\text{Sin } (S-L) (S-H)}{\text{Cos } L \text{ Cos } H}$$

$$S-L = 40^{\circ}15'30'' \checkmark$$

$$S-H = 34^{\circ}55'30'' \checkmark$$

$$9.8103905 \checkmark$$

$$9.7577783 \checkmark$$

$$0.0769018 \checkmark$$

$$0.1060542 \checkmark$$

$$2) 19.7511248 \checkmark$$

$$9.8755624 \checkmark = 48^{\circ}40' = 1/2 A$$

$$97^{\circ}20' = A.$$

$$180^{\circ} - 97^{\circ}20' = S\ 82^{\circ}40'\ E. - \text{Bearing of Sun.}$$

$$\frac{38^{\circ}02'}{120^{\circ}42'} \text{ Ang. to left from Sun.}$$

$$\frac{180^{\circ}}{N\ 59^{\circ}18'\ E. - \text{Course of line}}$$

Set up at Cor. No. 2 Euclaire lode - F.S. to Cor. No. 3

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 GRAHAM NO. 1. NEVADA and EUCLAIRE lodes, situate in Greenlee Gold Mountain Mining District, Greenlee County, Arizona, in Sections 2-3, Township No. 4 S., Range No. 29 E., G. S. R. M., and designated as Survey No. 3945, 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 Saugwally a Notary Public
in and for Pima County, Arizona this 20
 day of June, 1924

R W Saugwally
 Notary Public, Pima Co, Arizona

My commission Expires July 19 1924

(4-688.)

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

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

Phoenix, Arizona,

July 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 GRAHAM NO. 1, NEVADA, and EUCLAIR lodes

, situate in Greenlee Gold Mountain

Mining District, Greenlee County,

Arizona, in Sections 2 and 3, Township No. 4 S.,

Range No. 29 E., and designated as Survey

No. 3945, 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 ^{each of} said mining claims by claimant or its grantors, and
that said improvements consist of 4 shafts, 2 cuts, 6 tunnels and 3
drifts, total value \$7185.

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,.....

.....July 25....., 1924

I, U. S. Surveyor General forDistrict 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

.....GRAHAM NO. 1, NEVADA, and EUCLAIRE lodes.....

situate inGreenlee Gold Mountain..... mining district,

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

in Sections2 and 3....., Township No.4 S....., Range No.29 E.....

....., designated as Survey No.3945.....

executed byT. N. Stevens....., U. S. Mineral

Surveyor,April 30 - May 2....., 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 forArizona.....