

MINERAL SURVEY No. 4207

Arizona *Land District*

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Phelps Dodge Corporation

KNOWN AS THE

NOVO No.15 lode

Copper Mountain *Mining District,*

Greenlee *County,* Arizona

Section 15, Township 4 S., Range 29 E

Surveyed under instructions dated September 30, 1937

By *[Signature]*
U. S. Mineral Surveyor. G. L. O.

Claim located See location notice herewith.

Survey commenced October 13, 1937

Survey completed October 15, 1937

Address of claimant Ellinwood & Ross, Phoenix, Ariz.
T. & T. Bldg.,
Attys for Claimant.

DATES OF AMENDED LOCATIONS

See location notice herewith

Feet.

MINERAL SURVEY NO. 4207

Mineral survey No.4207 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, all adjustments were in good order. A P.M. altitude observation for azimuth and at noon on the meridian for latitude and time were made on a line of the survey, the details of which observations are shown in the calculation sheets, herewith submitted for examination.

All azimuths in 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 $14^{\circ}45'E$.

NOVO No.15 lode.

Beginning at Cor. No.1 of the Novo. No.15 lode on line 4-2, Sur. No. 2887, Martha lode, Claimant herin at $S.82^{\circ}36'E$, 112.94 ft. from Cor. No.4, and $N.82^{\circ}36'W$, 725.69 ft. from Cor. No.1.

Where I-

Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 12 ins. in the ground to bed rock and surrounded with md of stone, stamped 1- N.No 15 -4207 from which the witness corner to Secs. 9, 10, 15 and 16, T.4 S. R. 29 E. brs. $N.37^{\circ}25'30''W$ 1507.6 ft. dist; an iron post 2 ins. diam. firmly set in md of stone, marked and witnessed as described in the official record.

Loc. Mon. brs. $N.45^{\circ}15'W$, 49.59 ft. dist. consisting of md of stone. Cor. Nos. 2-3, Sur. No. 2887, Utah and Martha Lodes brs. $S.61^{\circ}30'W$, 199.85 ft. A cross (X) $N.15-4207$ BR chiseled on base of cliff 40 ft. high brs. $S.7^{\circ}30'E$, 4.12 ft. dist.

Cor. No.4 Sur. No.2887 Portland lode brs. $S.3^{\circ}12'W$. 152.85 ft. dist.

No other bearings are available.

Thence $S.43^{\circ}15'E$.

3.19 Intersect line 1-2 Sur. No.2887, Utah lode at $N.62^{\circ}22'54''E$, 200.69 ft. from Cor. No.2 and $S.62^{\circ}22'54''W$. 1183.83 ft. from Cor.No.1.

240.00 To W. end center, identical with Loc. Mon. Where I-

Set a pine post 4 ins. sq by 4 ft. high, set firmly in the ground and surrounded with md of stone, scribed W. Cr. N No.15

314.9 Intersect lines 2-3 and 4-1, Sur. No.2887 Martha and Portland lodes respectively at $S.71^{\circ}06'E$ 413.67 ft. from Cor. No.3 Martha lode and $S.71^{\circ}06'E$, 237.06 ft. from Cor. No.4 Portland. lode.

424.46 To Cor. No.2, identical with Loc. Mon. Where I -

Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone stamped 2 - N No.15 -4207

A cross (X) -2 N No.15-4207 B R chiseled on porphyry ledge 18 ins high brs. $N.48^{\circ}16'W$, 8.6 ft. dist.

No other bearings are available.

Feet.

MINERAL SURVEY No.4207
NOVO No.15 Lode.

Thence N. 63°18'E.

- 71.64 Intersect lines 2-3 and 4-1 Sur. No.2887, Martha and Portland lodes at N.71°06'W., 228.19 ft. from Cor. No.2 and S.71°06'E. 560.67 ft. from Cor. No.3 Martha lode, and N.71°06'W. 1113 ft. from Cor.No.1 and S.71°06' E. 334.06 ft. from Cor.No.4 Portland lode.
- 479.99 To Cor. No.3 identical with Cor. No.1 Sur. No,2887 Martha lode Where I -
Set a steel post 2 ins. diam. with lead cap on top, 12 ins. in ground to bed rock and surrounded with md of stone, stamped 3 N. No.15 - 4207, 1 M - 2887

No bearings are available.

Thence N. 30°04'E.

- 25.50 To Cor. No.4, identical with Cor. No.4, Sur. No.2887 Ajax lode and Cor. No.4, Sur. No. 4168 Novo No.14 lode, Western Copper and Mining Co., Claimant.

A pine post 4 x 6 ins. showing 3 ft. above ground, set firmly in the ground, scribed 4, N No.14-4168, 4 A - 2887 and 4 N No.15 - 4207.

A cross (X) N 14 - 4-4168, A 4 -2887, 4 N 15 - 4207 BR. chiseled on face of porphyry outcrop 18 ins. high brs. S.59°07'W., 8.1 ft. dist.

No other bearings are available.

Thence N. 63°18'E.

- 60.0 Shannon R.R. brs. northerly.
140.0 Coronado R.R. brs. northerly.
345.0 W. bank Chase Creek brs. northwesterly.
420.0 E. bank Chase Creek brs. northwesterly.
525.0 Highway (Coronado Trail) brs. northwesterly.
549.35 Intersect line 3-4 Sur. No.4168 Novo No.16 lode at S.25°E., 417.42 ft. from Cor. No.4. and N. 25°W., 199.38 ft. from Cor. No.3
- 683.82. To Cor. No.5

A cross(X) 5 -N. No.15 - 4207 chiseled on sloping face of porphyry ledge 50 ft. high, with md of stone alongside; from which

Cor. No.1, Sur. No.4168, Novo. No.14 lode brs. N.63°18'E., 29.18 ft. dist.

An oak tree 4 ins. diam. brs. S.36°45'E., 12.57 ft. dist.

Blazed and scribed 5 NNo15- 4207 B.T.

Loc.Mon. brs. S.55°43' E. 30 ft., a md. of stone.

No other bearings are available.

Thence N.43°15W.

- 208.54 To E. end center, identical with Loc. Mon. Where I -
Set an oak post 4 ins. diam. by 4 ft. high, set firmly in the ground and surrounded with md of stone, scribed E. Cr. N.No.15
- 426.45 To Cor. No.6. Identical with Cor. No.1, Sur. No.2887 Utah lode, Where I -
Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone stamped 6, N. No.15 -4207, 1 U - 2887 .
Loc. Mon. brs. N. 61° E., 27.75 ft. dist., a md. of stone.

Feet.

MINERAL SURVEY No. 4207

Novo No. 16 lode,
Cor. No. 4 Sur. No. 4168 and Cor. No. 2 Sur. No. 2974 King Bolt Lode
Claimant unknown brs. N. 30° 53' W., 8.47 ft. dist.

A cross (X) 6 N No. 15 - 4207, 1 U - 2887 B R chiseled on porphyry
outcrop 2 x 3 ft. brs. N. 16° 07' E., 5.24 ft. dist.

No other bearings are available.

Thence S. 62° 31' 50" W.

0.87 Intersect line S-4, Sur. No. 4168 Novo No. 16 lode at S. 25° E.,
8.48 ft. from Cor. No. 4

250.0 Coronado Trail over R.R. tunnel brs. northerly.

280.0 Enter E. Bank of Chase Creek brs. northerly.

325.0 W. bank Chase Creek brs. northerly.

350.0 Shannon R.R. brs. northwesterly.

1184.7 To Cor. No. 1 and place of beginning.

AREA

Acres.

Total area Novo No. 15 lode 11.102

Area in conflict with -

Sur. No. 2887 Martha lode	2.155
Sur. No. 2887 Utah lode	0.042
Sur. No. 2887 Portland lode	0.086
Sur. No. 4168 Novo No. 16 lode	0.635
Sur. No. 2887 Martha lode, exclusive of its conflict with Sur. No. 2887 Utah lode, (nominal),	2.155

LOCATION.

This survey is located in the N.W. 1/4, Sec. 15, T. 4 S., R. 29 E.

LODE LINES

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

Novo No. 15 lode, N. 61° 30' E., 180 ft.; and S. 61° 30' W., 998.90 ft.

EXPENDITURE OF \$500.

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 tunnel of the Novo. No. 15 lode the portal of which
being the discovery point is on the lode line 180 ft. from a point on
line 5+6, 208.54 ft. from Cor. No. 5, 5 x 7 ft. in size, running
thence N. 33° 30' E., 19.50 ft. to Sta. 1
From Sta. 1 is cross cut 4 x 6 ft. running N. 8° 55' W., 47.0 ft to
winze 4 x 6 ft. 10 ft. deep. thence " N 8° 55' W., 20.0 ft to point
thence N. 56° 30' W., 6 ft. to breast.
From Sta. 1 drift 5 x 7 ft. running N. 33° 30' E., 7.5 ft. to Sta. 2
From Sta. 2 Crosscut 4x6 ft. running S. 56° 30' E., 11.0 ft. to breast.
From Sta. 2, drift 5x7 ft. running N. 33° 30' E., 18.0 ft. to Sta. 3
From Sta. 3, Crosscut 4x6 ft. running N. 56° 30' W., 11.0 ft to breast.
From Sta. 3, drift 5 x 7 ft " N. 33° 30' E., 29.5 ft. to Sta. 4
From Sta.

FINAL OATHS FOR SURVEYS

LIST OF NAMES

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

G.L.O

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 NOVO No.15 lode

and showing the respective capacities in which they acted.

Lewis A. Smith, Chainman.

_____, Chainman.

_____, Assman.

_____, Flagman.

FINAL OATHS OF ASSISTANTS

I
We, Lewis A. Smith

and _____, do solemnly swear that I we assisted T.N. Stevens
G.L.O.

_____, ~~United States~~ Mineral Surveyor, in marking the corners and surveying the boundaries of the mining claim of Phelps Dodge Corporation

known as the No. 15 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 our knowledge and belief, faithfully and correctly executed, and the corner and boundary monuments established according to law and the instructions furnished by the Office Cadastral Engineer, at Phoenix, Arizona

Lewis A. Smith, Chainman.

_____, Chainman.

_____, Assman.

_____, Flagman.

Subscribed and sworn to by the above-named persons before me this 25th

day of October, 1937., 19

H. G. E. J. Sult

NOTARY PUBLIC

(My Commission Expires January 19, 1939)

FINAL OATH OF U. S. MINERAL SURVEYOR

G.L.O

I, T.N. Stevens, ~~xxxxx~~ Mineral Surveyor,

do solemnly swear that, in pursuance of instructions received from the Office Cadastral Engineer, at Phoenix, Ariz., dated September 30, 1937,

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

NOVO NO.15 lode,

situate in Copper Mountain Mining District,

Greenlee County, Ariz., in Section

15, Township No. 4 S., Range No. 29 E.

and designated as Survey No. 4207, 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) G.L.O.

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

U. S. Mineral Surveyor, before me O.T. Richey Notary

Public of Pima County Arizona this 21st

day of January, 19 38

O.T. Richey
Notary Public

OFFICE CADASTRAL ENGINEER'S FINAL CERTIFICATE ON FIELD NOTES

Department of the Interior

PUBLIC SURVEY OFFICE

Phoenix, Arizona

March 9, 1938

I, 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 NOVO NO. 15 lode

situate in Copper Mountain

Mining District Greenlee County Arizona

in Section 15, Township No. 4 S, Range No. 29 E, and

designated as Survey No. 4207, 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 or its grantors,

and that said improvements consist of 1 tunnel, 1 winze, 4 drifts, and 4 crosscuts, total value \$2815.

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

Office Cadastral Engineer.

4-687

CERTIFICATE OF APPROVAL OF FIELD NOTES AND SURVEY OF
MINING CLAIM

DEPARTMENT OF THE INTERIOR
PUBLIC SURVEY OFFICE

At Phoenix, Arizona,

March 9, 1938, 192X

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

NOVO NO. 15 lode

situate in Copper Mountain mining district,

Greenlee County, Arizona

in Section 15, Township No. 4 S., Range No. 29 E.

_____, designated as Survey No. 4207

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

Surveyor, October 13 - 15, 1937, under my instructions dated

September 30, 1937, 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
Office Cadastral Engineer.