

4-683

MINERAL SURVEY No. 4207 A M

Arizona Land District

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Phelps Dodge Corporation

KNOWN AS THE

Novo No.15 lode

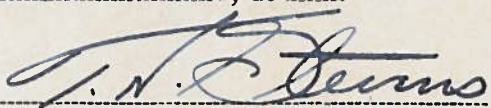
~~(Greenlee & Gold Mountains lodes)~~ Copper Mountain Mining District,

Greenlee County, Arizona

Section 15, Township 4 S., Range 29 E.

Surveyed under instructions dated Oct 6, Nov. 18, 1938.

By



U. S. Mineral Surveyor. G. L. O.

Claim located March 19, 1937

Survey commenced Dec. 5, 1938

Survey completed Dec. 6, 1938

Address of claimant John H. Page & Co., Phoenix, Ariz.
Attys for Claimant.

DATES OF AMENDED LOCATIONS

November 10, 1938

Feet

MINERAL SURVEY NO. 4207 Am.

Mineral Survey No. 4207 Am. 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 submitted for examination with the returns on Mineral Survey No. 4207.

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,

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 Am, from which

The Witness Cor. to Secs. 9, 10, 15 and 16, T. 4 S., R. 29 E., brs. N. $37^{\circ} 14' 09''$ W. 1460.26 ft. dist., an iron post 2 ins. diam. firmly set in md. of stone, marked and witnessed as described in the official record.

A cross (X) 1 N-No.15-4207 AM BR chiseled on porphyry ledge, 6 ft. long, 4 ft. high, brs. S. $64^{\circ} 19'$ W. 15.82 ft. dist.

Cor. No. 4, Sur. No. 2887 Martha lode, claimant herein, brs. S. $75^{\circ} 47'$ W. 81.90 ft. dist.

Cor. Nos. 2-3, Sur. No. 2887 Utah and Martha lodes, brs. S. $47^{\circ} 43' 30''$ W. 193.29 ft. dist.

Cor. No. 4, Sur. No. 2887 Portland lode, brs. S. $7^{\circ} 19' 40''$ W. 188.81 ft. dist.

Loc. Mon., consisting of md. of stone, brs. N. $84^{\circ} 33'$ W. 2.62 ft. dist.

No other bearings are available.

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

47.59 Cor. No. 1 of the original survey and intersect line 4-1, Sur. No. 2887 Martha lode, 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.

50.78 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.

Feet	
287.59	To W. end center, identical with Loc. Mon., where I Set a pine post 4 ins. sq. by 4 ft. high, firmly in the ground and surrounded with md. of stone, scribed W. Cr. N. No.15 Am.
362.49	Intersect lines 2-3 and 4-1, Sur. No. 2887, Martha and Portland lodes, respectively, at S. 71° 06' E. 413.67 ft. from Cor. No.3 Martha lode, and S. 71° 06' E. 237.06 ft. from Cor. No. 4 Portland lode.
472.05	To Cor. No. 2, identical with Loc. Mon. and Cor. No. 2 of the original survey. 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 Am. A cross (X) 2 N No.15-4207 Am BR chiseled on porphyry ledge 18 ins. high, brs. N. 48° 16' W. 8.6 ft. dist. No other bearings are available. 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 and 1113.00 ft. respectively from Cor. No. 2 Martha lode and Cor. No. 1 Portland lode, and S. 71° 06' E. 560.67 and 384.06 ft. respectively from Cor. No. 3 Martha lode and Cor. No. 4 Portland lode.
479.99	To Cor. No. 3, identical with Cor. No. 3 of the original survey and Cor. No. 1, Sur. No. 2887 Martha lode. A steel post 2 ins. diam. with lead cap on top, 12 ins. in the ground to bed rock and surrounded with md. of stone, stamped 3 N no.15-4207 Am - 1 M-2887. No bearings are available. Thence N. 30° 04' E.
25.50	To Cor. No. 4, identical with Cor.No.4 of the original survey, Cor.No.4, Sur.No./ 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 Am. A cross (X) N 14-4-4168, A 4-2887, 4 N No.15-4207 Am BR chiseled on face of porphyry ledge 18 ins. high, brs. S. 59° 07' W. 8.1 ft. dist. No other bearings are available. Thence N. 63° 18' E.
60.00	Shannon R. R. brs. northerly.
140.00	Coronado R.R. brs. northerly.
345.00	W. bank Chase Creek brs. northwesterly.
420.00	E. bank Chase Creek brs. northwesterly.
525.00	highway (Coronado Trail), brs. northwesterly.
549.35	Intersect line 3-4 Sur. No. 4168 Novo no. 16 lode, at S. 25° E. 417.42

	feet	from cor. no. 4, and N. 25° W. 199.38 ft. from cor. no. 3.
683.82		w. c. to Cor. No. 5, identical with Cor. No. 5 of the original survey.
		A cross (X) 5 N No. 15-4207 Am W.C. 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 N No. 15-4207 Am BT.
685.72		To Cor. No. 5. This corner falls on an inaccessible point on the cliff described above, where a monument cannot be established.
		Loc. Mon., a md. of stone, brs. S. 52° 27' E. 29.13 ft.
		Cor. No. 1, Sur. No. 4168, Novo No. 14 lode, brs. N. 63° 18' E. 27.28 ft. dist.
		Thence N. 43° 15' W., from true cor. point,
208.57		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 Am.
435.26		To Cor. No. 6, identical with Cor. No. 4, Sur. No. 4168, Novo No. 16 lode and Cor. No. 2, Sur. No. 2974, King Bolt lode, claimant unknown. On line 4-1 Sur. No. 2887 Utah lode.
		A pine post 4 ins. csq., showing 3 ft. above ground, set firmly in md. of stone, scribed 6 N No. 15-4207 Am, 4 N No. 16-4168 2 K B-2974.
		Cor. No. 4, Sur. No. 2887 Utah lode, brs. N. 30° 53' W. 2.33 ft. dist., identical with corner of location.
		Cor. No. 1, Sur. No. 2887, Utah lode, identical with Cor. No. 6 of the original survey, brs. S. 30° 53' E. 8.47 ft. dist.
		A cross (X) 6 N No. 15-4207 Am BR, chiseled on porphyry outcrop 2 1/2 ft. wide by 3 ft. long, brs. S. 75° 07' E. 11.79 ft. dist.
		No other bearings are available.
		Thence S. 64° 19' 14" W.
257.00		Coronado Trail over R.R. tunnel brs. northerly.
277.00		Enters E. bank Chase Creek, brs. northerly.
322.00		W. bank Chase Creek, brs. northerly.
354.00		Shannon R.R. brs. northerly.
1197.72		To Cor. No. 1 and place of beginning.
		AREA.
		Total area Novo No. 15 lode, 11.858 Acres
		Area in conflict with:
		Sur. No. 2887, Martha lode, 2.155
		Sur. No. 2887, Utah lode, 0.780

Sur. No. 2887, Portland lode,	0.086
Sur. No. 2887, Martha lode, exclusive of its conflict with Utah lode, Sur. No. 2887,	2.155
Sur. No. 4168, Novo No. 16 lode,	0.653
Sur. No. 4168 Novo No. 16 lode, exclusive of its conflict with Utah lode, Sur. No. 2887,	0.653

LOCATION.

This survey is located in the NW $\frac{1}{4}$ Sec. 15, T. 4 S., R. 29 E.,

Lode Line.

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. 181.86 ft., and S. 61° 30' W. 998.9 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 181.86 ft. from a point on line 5-6, 208.57 ft. from Cor. No. 5, 5 x 7 ft. in size, running N. 33° 30' E. 19.5 ft. to Sta. 1.

From Sta. 1 is a crosscut 4 x 6 ft., running N. 8° 55' W. 47 ft. to a winze 4 x 6 ft. 10 ft. deep, thence running N. 8° 55' W. 20 ft. to a point, thence N. 56° 30' W. 6 ft. to breast.

From Sta. 1 a drift 5 x 7 ft. running N. 33° 30' E. 7.5 ft. to Sta. 2

From Sta. 2 a crosscut 4x6 ft. running S. 56° 30' E. 11 ft. to breast

From Sta. 2 a drift 5x7 ft. running N. 33° 30' E. 18 ft. to Sta. 3

From Sta. 3 a crosscut 4x6 ft. running N. 56° 30' W. 11 ft. to breast.

From Sta. 3 a drift 5x7 ft. running N. 33° 30' E. 29.5 ft. to Sta. 4

From Sta. 4 a crosscut 4x6 ft. running N. 56° 30' W. 18 ft. to breast.

From Sta. 4 a drift 5x7 ft. running N. 33° 30' E. 84 ft. to breast.

Value tunnel, crosscuts, drifts and winze, \$2815.00

OTHER CORNER DESCRIPTIONS.

Sur. No. 2887, Utah lode, Cor. No. 1 consists of a pine post properly set and scribed 1-U, 2887, but the post was found to be badly decayed and unsuitable for permanent corner, I therefore set a steel post in the exact position of the old corner, 2 ins. diam., $3\frac{1}{2}$ ft. long 24 ins. in the ground and surrounded with md. of stone, stamped 1-U 2887. All that remains of Cor. No. 2 is part of a decayed 4x5 in. post in md. of stone. Line 1-2 was found to be S. 62° 22' 54" W. 1384.52 ft. instead of S. 61° 30' W. 1379.9 ft. Cor. No. 4 consists of a pine post 4 ins. sq., firmly set in md. of stone, scribed 4-U-2887.

Sur. No. 2887 Martha lode, Cor. No. 1 has been destroyed with slight evidence of the old corner remaining. I reestablish same with a 2 in. steel post as described in the foregoing field notes.

All that remains of Cor. No. 4 is a md. of stone. All courses and distances are correct as approved. Cor. No. 2 is a pine post 4 ins. sq., firmly set and properly scribed.

Sur. No. 2887 Portland lode, Cor. No. 4 is a decayed post in md. of stone. Cor. No. 1 is a pine post firmly set and properly marked. I find line 4-1 to be correct as approved.

Sur. No. 2887 Ajax lode, Cor. No. 4 is a 4x6 in. pine post as described in the foregoing field notes. I failed to find any evidence of Cor. No. 3 so accepted the record course of line 3-4.

Sur. No. 4168, Novo No. 14 and 16 lodes, all corners are pine posts firmly set and properly marked. All courses and distances are correct as approved.

Sur. No. 2974, King Bolt lode, Cor. No. 2 is a pine post firmly set and properly marked.

ADJOINING CLAIMS.

On the North by Sur. No. 2887, Utah lode.

On the West by Sur. No. 2887, Martha and Portland lodes.

On the South by Sur. No. 2887, Martha, Ajax and Portland lodes, and Sur. No. 4168 Novo No. 14 and Novo No. 16 lodes.

On the east by Sur. No. 4168 Novo No. 16 lode.

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.*

Paul Gatlin _____, *Chainman.*
 _____, *Acman.*
 _____, *Flagman.*

FINAL OATHS OF ASSISTANTS

We, Lewis A. Smith and Paul Gatlin

 and _____, do solemnly swear that we assisted _____

T.N. Stevens, ~~United States~~ Mineral Surveyor, G.L.O.

 the boundaries of the mining claim of Phelps Dodge Corporation

 known as the Novo 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 instruc-
 tions furnished by the Office Cadastral Engineer, at Phoenix, Arizona.

Lewis A. Smith _____, *Chainman.*
Paul Gatlin _____, *Chainman.*
 _____, *Acman.*
 _____, *Flagman*

Subscribed and sworn to by the above-named persons before me this 6th
 day of December, _____, 19 38

M. A. E. Jull

 NOTARY PUBLIC

(My Commission Expires January 19, 1939)

FINAL OATH OF ~~U.S.~~ MINERAL SURVEYOR, G.L.O.,

I, T.N. Stevens ~~U.S.~~ Mineral Surveyor, G.L.O.

do solemnly swear that, in pursuance of instructions received from the Office Cadastral Engineer, at Phoenix, Ariz., dated Oct. 6, [&] Nov. 18, 1938

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 ~~and Greenlee~~ Mining District,

..... Greenlee County, Arizona, in Section

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

and designated as Survey No. 4207 A.M., 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
.....
G.L.O.,
~~U.S.~~ Mineral Surveyor, before me

J. P. Remy Notary
.....

Public, Pima County, Arizona, this 19th
day of December, 1938

My Commission expires
November 29 1939

J. P. Remy
.....
Notary Public

OFFICE CADASTRAL ENGINEER'S FINAL CERTIFICATE ON FIELD NOTES

Department of the Interior

PUBLIC SURVEY OFFICE

Phoenix, Arizona,

February 6, 1939

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 AM., 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.

CERTIFICATE OF APPROVAL OF FIELD NOTES AND SURVEY OF
MINING CLAIM

UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE
PUBLIC SURVEY OFFICE

At Phoenix, Arizona,

February 6, 1939

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 _____

Phalps 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 AM.

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

Surveyor, G. L. O., December 5 - 6, 1938, under my instructions dated

October 6 & November 18, 1938 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.