

Mar. 23, 1936

4-688

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MINERAL SURVEY No. 4184

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Arizona Land District

**FIELD NOTES**

OF THE SURVEY OF THE MINING CLAIM OF

Phelps Dodge Corporation  
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KNOWN AS THE

SAINT BRIDGET lode  
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Copper Mountain Mining District,

Greenlee County, Arizona

Sections 22 & 23, Township 4 S, Range 29 E; G. & S. B. B. & M

Surveyed under instructions dated October 1, 1935

By Ralph L. Motz  
U. S. Mineral Surveyor.

Claim located January 1, 1901

Survey commenced October 10, 1935

Survey completed October 12, 1935

Address of claimant's attorneys, John H. Page & Co.,  
Phoenix, Arizona.

DATES OF AMENDED LOCATIONS

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## SURVEY NO. 4184

Feet	
	<p>Mineral Survey No. 4184 was made with a Gurley &amp; Sons Precise Transit, Light Mountain Model, with horizontal limb 6.25 inches in diameter, having two double opposite verniers, and full vertical circle 5 inches in diameter, having one double vernier; the verniers read to one minute of arc; the eye piece is equipped with a prismatic eye-piece with colored glass slide for making direct observations upon the sun. The instrument was in good condition at the time of the survey and all adjustments were in good order. An a.m. altitude observation of the sun for time and azimuth, and at noon on the meridian for latitude, were made at Cor. No. 2 of the Saint Bridget lode, 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 thus determined, by the method of deflection angles and calculated courses.</p>
	<p>The lines were measured with a Lufkin steel tape, 150 feet in length, graduated to feet, tenths and hundredths for the entire length; a Kueffel &amp; Esser steel tape, 300 feet in length, graduated to feet, tenths and hundredths for the entire length; a Lufkin steel tape, 25 feet in length, graduated to feet, inches and fractions of inches for entire length. All tapes were compared with a Lufkin standard at the time of beginning the survey, and found correct.</p>
	<p>All lines and connections of this survey were run by direct methods.</p>
	<p>The magnetic variation observed at each corner of the survey gave a uniform value of 13° 50' E.</p>
	<p>SAINT BRIDGET Lode.</p>
	<p>Beginning at point for Cor. No. 1 of the Saint Bridget lode.</p>
	<p>Situated in the center of the bed of Chase Creek, 100 feet wide, course southeasterly, where a permanent monument cannot be established; from this point</p>
	<p>Cor. No. 1, Survey No. 4148 Rock House lode, a sandstone rock 8x15 inches, 14 inches above ground, chiseled 1-4148 R H bears N. 39° 55' W. 487.7 ft. dist.</p>
	<p>The Cor. of Secs. 14, 15, 22 and 23, T.4 S., R.29 E., G. &amp; S.R.B. &amp; M., bears N. 67° 54' W. 821.1 ft. dist., an iron post, 2 ins. diam., 24 ins. above ground, firmly set in ground and mound of stone, and marked as described in the official record.</p>
	<p>Thence S. 5° 04' E.</p>
88.00	Westerly edge of Chase Creek, course southeasterly.
115.50	Center line of narrow guage railroad, course southeasterly.
128.90	Witness corner to Cor. No. 1,
	<p>A sandstone rock, 24x10x5 ins., 15 ins. in the ground for witness corner, marked WC-SB-1-4184, from which a mound of stone 3 ft. base, 3 ft. high, bears southerly 5 feet dist.</p>
300.00	<p>East end center, being a mound of stone 3 ft. base, 3 ft. high, agreeing with the east end center of the location.</p>
478.00	Wash, 20 ft. wide, course easterly.
600.00	Cor. No. 2,
	<p>Set a sandstone rock, 26x8x5 ins., 14 ins. in the</p>

SURVEY NO. 1014

	ground for Cor. No. 2, marked SB-2-4184; from which
	A mound of stone, 3 ft. base, 3 ft. high, bears south-easterly 4 ft. dist.
	A sandstone rock in place, 36x7 ins., 11 ins. above the ground, bears N. 42° 05' W. 17.8 ft. dist., marked BR X SB-2-4184
	A sandstone rock in place, 33x48 ins., 12 ins. above the ground, bears S. 86° 32' W. 61.6 ft. dist., marked BR X SB-2-4184
	Cor. No. 2, Survey No. 924 Coon Mill Site, being a mound of rocks, bears S. 89° 28' E. 83.7 ft. dist. Thence S. 84° 56' W.
151.00	Cor. No. 1 of Survey No. 2885 Punto Blanco lode.
740.00	Gulch, 10 ft. wide, course northeasterly.
930.00	Center of old narrow guage railroad grade.
980.00	Gulch, 10 ft. wide, course southeasterly.
1252.36	Intersect line 1-2 Sur. No. 3503 Gladiator lode, at S. 28° 32' W. 143.54 ft. from Cor. No. 1 thereof.
1500.00	Cor. No. 3. Set a sandstone rock 26x9x5 ins., 14 ins. in the ground for Cor. No. 3, marked SB-3-4184, from which A mound of stones, 3 ft. base, 3 ft. high, bears north-erly 5 ft. dist. Cor. No. 1 Survey No. 3503 Gladiator lode, being a pine post 4 ins. square, set firmly in the ground and in a monument marked G-1-3503, bears N. 64° 51' E. 348.24 ft. dist. Cor. No. 4, Survey No. 2885 Punto Blanco lode, being a mound of rocks, bears S. 84° 56' W. 150 ft. dist. Thence N. 5° 04' W.
300.00	West end center, being a mound of stone, 3 ft. base, 3 ft. high, agreeing with the west end center of the loca-tion.
391.74	Intersect line 4-1 Survey No. 3503 Gladiator lode, at N. 55° 18' W. 425.51 ft. from Cor. No. 1 thereof.
600.00	Cor. No. 4, Set a sandstone rock 25x12x5 ins., 15 inches in the ground for Cor. No. 4, marked SB-4-4184, from which A sandstone rock in place, 28x31 ins., 12 ins. above the ground, bears S. 32° 35' E. 39.4 ft. dist., marked BR X SB-4-4184. A mound of stones, 3 ft. base, 3 ft. high, bears Easterly 5 ft. dist.

MINERAL SURVEY NO. 4184, ARIZONA.

feet

- 832.0 Thence N 84° 56' E  
Center of old narrow gauge railroad grade
- 1420.0 Center of narrow gauge railroad
- 1436.0 West edge of Chase Creek
- 1500.0 Point for Cor. No. 1 and place of beginning.

LODE LINE

The presumed course of the vein on this lode location counted from the point of discovery, is as follows:-

N 84° 56' E 400 ft., and S 84° 56' W 1100 ft.

AREAS.

Total area, Saint Bridget lode - - - - - acres  
20.661

Area in conflict with -  
Sur. No. 3503 Gladiator lode - - - - - 1.811

LOCATION

This survey is located in the Lot 1, Sec. 22 and Lot 2, Sec. 23, T<sup>4</sup>S, R 29 E, G & S R B & M, Arizona.

This survey of this lode location is identical with the original location as marked on the ground.

EXPENDITURE OF \$500

I certify that the value of the labor and improvements made upon the lode location of this survey by the claimant or its grantors is not less than \$500, and that said improvements consist of:-

- No. 1 The discovery cut, the face of which being the discovery point, is on the center line 400 ft. from the east end center; 4 ft. wide, 10 ft. face, running N 10° W 12 ft. to face  
Value \$50
- No. 2 An open cut, the mouth of which bears N 58° 30' W 429 ft. from Cor. No. 2; 6 ft. wide, 15 ft. face running N 75° W 20 ft. to face. At face is a shaft 5x6 ft., 35 ft. deep.  
Value open cut and shaft \$ 625
- No. 3 A shaft, the center of which bears from Cor. No. 2 N 58° 10' W 375 ft., 5x6 ft., 20 ft. deep; at bottom of shaft is drift 4x6 ft., running N 45° W 20 ft. to face.  
Value of shaft and drift \$ 450
- No. 4 A tunnel, the center of the mouth bears S 71° 32' W 110 ft. from the east end center, 5x7 ft., running S 80° W 25 ft. to breast, timbered.  
Value \$ 350
- No. 5 An open cut, the mouth of which bears N 85° 54' W 133 ft. from the east end center, 5 ft. wide, 8 ft. high, running S 80° W 9 ft. to face

4 5

MINERAL SURVEY NO. 1184, HILTON

4

Value \$ 30

No. 6 An open cut, the mouth of which bears S 18° 55' W 89 ft. from point for Cor. No. 1, 5 ft. wide, 15 ft. high, running S 60° W 22 ft. to face; at face is tunnel 4x6 ft. running S 60° W 17 ft. to breast  
Value \$ 500

No. 7 An open cut, the mouth of which bears N 61° 10' E 430 ft. from Cor. No. 3, 5 ft. wide, 10 ft. high running East 17 ft. to face; at face is tunnel 5x7 ft. running East 13 ft. to breast  
Value \$ 370

OTHER IMPROVEMENTS

A frame house, the southeast corner of which bears N 38° 15' W 228 ft. from Cor. No. 2; 15x30 ft. the long side brg N 30° W

OTHER CORNER DESCRIPTIONS.

Cors. No. 1 and 4 of Survey No. 2885 Punto Blanco lode, are iron pines, all traces of former corners and monuments have disappeared.

Cors. 2 and 4 of Survey No. 3503 Gladiator lode are pine posts properly set and scribed.

I find the distance to Cor. No. 4, Punto Blanco lode, Sur. No. 2885, from the point of intersection of line 1-2 Gladiator lode, Sur. No. 3503, with line 1-4 Punto Blanco lode, 397.64 ft. instead of 398.64 ft. as reported in Sur. No. 3503.

# FINAL OATHS FOR SURVEYS

## LIST OF NAMES

A list of the names of the individuals employed by Ralph L. Motz

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 Saint Bridget lode

and showing the respective capacities in which they acted.

Earl Moore, Chainman.

\_\_\_\_\_, Chainman.

\_\_\_\_\_, Axman.

\_\_\_\_\_, Flagman.

## FINAL OATHS OF ASSISTANTS

~~We~~, I, Earl Moore

and \_\_\_\_\_, do solemnly swear that we assisted Ralph L. Motz

\_\_\_\_\_, United States Mineral Surveyor, in marking the corners and surveying

the boundaries of the mining claim of Phelps Dodge Corporation

known as the Saint Bridget 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 <sup>Acting</sup> Office Cadastral Engineer, at Phoenix, Arizona.

Earl Moore, Chainman.

\_\_\_\_\_, Chainman.

\_\_\_\_\_, Axman.

\_\_\_\_\_, Flagman.

Subscribed and sworn to by the above-named persons before me this 20th

day of March, 19 36

J. M. Simpson

Notary Public, in and for the County  
of Cochise, State of Arizona.

GOVERNMENT PRINTING OFFICE

1048

My commission expires Aug. 9, 1937



FINAL OATH OF U. S. MINERAL SURVEYOR

I, Ralph L. Motz, U. S. Mineral Surveyor,  
do solemnly swear that, in pursuance of instructions received from the <sup>Acting</sup> Office Cadastral  
Engineer, at Phoenix, Arizona, dated October 1, 1935,  
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  
\_\_\_\_\_  
Saint Bridget lode,  
situate in Copper Mountain Mining District,  
Greelee County, Arizona, in Section s  
22 & 23, Township No. 4 S, Range No. 29 E, GSRB&M  
and designated as Survey No. 4184, 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 im-  
provements 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 in-  
cluded in the estimate of expenditures upon any other claim.

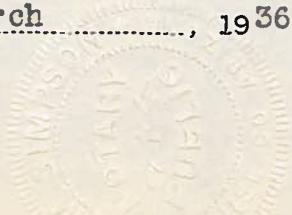
Ralph L. Motz  
(U. S. Mineral Surveyor)

Subscribed and sworn to by the said Ralph L. Motz

U. S. Mineral Surveyor, before me D. M. Simpson, Notary Public

\_\_\_\_\_ this 20th  
day of March, 1936

D. M. Simpson  
Notary Public, in and for the County  
of Cochise, State of Arizona.  
My commission expires Aug. 9, 1937



OFFICE CADASTRAL ENGINEER'S FINAL CERTIFICATE ON FIELD NOTES

Department of the Interior

PUBLIC SURVEY OFFICE

Phoenix, Arizona

April 16, 1936

Acting 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 SAINT BRIDGET lode

situate in Copper Mountain

Mining District Greenlee County Arizona

in Section 22 & 23 Township No. 4 S., Range No. 29 E., and

designated as Survey No. 4184, 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 5 cuts, 2 shafts, 3 tunnels, and 1 drift, total value \$2375.00

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.

Sherman C. Fiske Acting 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

April 16, 19 36

Acting 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

SAINT BRIDGET lode

situate in Copper Mountain mining district,

in Greenlee County, Arizona

in Sections 22 & 23, Township No. 4 S., Range No. 29 E.,

G. & S. R. G. & M., designated as Survey No. 4184

executed by Ralph L. Motz, U. S. Mineral

Surveyor, October 10 - 12, 19 35 under my instructions dated

October 1, 19 35, 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.

Shuman C. Fiske Acting Office Cadastral Engineer.