

4-688

MINERAL SURVEY No. 4196

Arizona Land District

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Phelps Dodge Corporation

KNOWN AS THE

Colorado # 3 lode

Ajo Mining District,

Pima County, Arizona

Section 27, Township 12 S, Range 6 W, G&SRM

Surveyed under instructions dated April 16, 1937.

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

Claim located November 1, 1927, 1927

Survey commenced July 1, 1937

Survey completed July 10, 1937

Address of claimant's attorney, Cleon T. Knapp
Valley National Building,
Tucson, Arizona.

DATES OF AMENDED LOCATIONS

October 9, 1929

See letter 2-10-1911

Feet

Mineral Survey No. 4196 was made with a Gurley & 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 survey and all adjustments were in good order. An a.m. altitude observation of the sun for azimuth, and at noon on the meridian for latitude, were made at Cor. No. 1 of the Colorado # 3 lode, the details of which observations are shown in the calculation sheets submitted herewith for examination. All azimuths in this record are referred to the true meridian thus determined, by the method of deflection angles and calculated course.

The lines were measured with a Keuffel & Esser "Wyte face" steel tape, 100 feet in length, graduated to feet, tenths and hundredths of feet for the entire length; a Keuffel & Esser steel tape, 300 feet in length, graduated to feet, tenths and hundredths of feet for the entire length; a Lufkin steel tape, 25 feet in length, graduated to feet, inches and fractions of inches for the entire length. All tapes were compared with a Lufkin standard at the time of beginning the survey, and found correct. All lines and connections of this survey were run by direct methods.

The magnetic variation observed at each corner of the survey gave a uniform value of $13^{\circ} 30'$ E.

COLORADO # 3 lode.

Beginning at Cor. No. 1 of the Colorado # 3 lode

An iron pipe, 4 inches in diameter, 4 feet long, set 18 inches in the ground in concrete, with copper tag on side mkd. C3-1-4196, situated on line 1-2 of Survey No. 3598 Fire Fly lode; from which

The original location for the southwest corner, being a mound of rocks 3 ft. high with 3 ft. base, bears $S 38^{\circ} 57' W 280.4$ ft. dist.

The southeast corner of the Bull Dog lode, unsurveyed, being an iron pipe 1 inch in diameter, set in a mound of rocks, bears $S 7^{\circ} 15' E 30.17$ ft. dist.

^{Sec.}
The $1/4$ Cor. between Secs. 27 and 34, T 12 S, R 6 W, G & S R ~~B~~ M, being an iron pipe with brass cap properly set and marked, with a monument of rocks 5 feet northerly, bears $S 7^{\circ} 25' 30'' W 2220.0$ ft. dist.

thence $N 7^{\circ} 15' W$

0.3 Intersect line 2-3 of Survey No. 1526 Arkansas lode at $N 86^{\circ} 14' W 334.02$ ft. from Cor. No. 2 thereof.

542.7 To the northeast corner of the Bull Dog lode unsurveyed and the southeast corner of the Triangle lode unsurveyed, being an iron pipe 1 inch in diameter set in a mound of rocks

645.47 To northeast corner of the Triangle lode unsurveyed, being an iron pipe 4 feet long, 4 inches in diameter, set 18 inches in the ground in concrete. Also intersect line 4-1 of Survey No. 1526 Arkansas lode at $S 88^{\circ} 23' E 1039.56$ ft. from Cor. No. 4 thereof, and line 4-5 of Survey No. 1526 Main Stay lode at $N 88^{\circ} 23' W$

- 147.05 ft. from Cor. No. 4 thereof
- 650.96 To Cor. No. 2
- A porphyry ledge in place, 27x36 inches, 40 inches high above the ground, for Cor. No. 2, mkd. C5-2-4196; from which
- The original location for the northwest corner, being a mound of rocks, 3 ft. high, 3 ft. base, bears N 8° 25' W 643.2 ft. dist.
- thence S 86° 17' E
- 148.0 To Cor. No. 4 of Survey No. 1526 Main Stay lode and Cor. No. 3 of Survey No. 1526 Quien Sabe lode
- 206.3 To the north end center, being a mound of stones, 3 ft. high, 3 ft. base; from which
- The original location for the north end center, being a mound of stones, 3 ft. high, 3 ft. base, bears North 649.6 ft. dist.
- 458.36 To Cor. No. 3
- A porphyry rock in place, 15x19 inches, 8 inches above the ground, for Cor. No. 3, mkd. C3-3-4196; from which
- The original location for the north east corner, being a mound of rocks 3 ft. high, 3 ft. base, bears N 4° 10' E 667.7 ft. dist.
- thence S 3° 46' W
- 60.88 To Cor. No. 1 of Survey No. 1526 Arkansas lode and Cor. No. 4 of Survey No. 1526 Butte lode, being an iron pipe 4 inches in diameter, 42 inches high above the ground, set in concrete and properly marked; also intersect line 2-3 of Survey No. 1526 Quien Sabe lode at S 75° 11' E 316.22 ft. from Cor. No. 3 thereof
- 639.07 To Cor. No. 4
- Identical with Cor. No. 2 of Survey No. 1526 Arkansas lode and Cor. No. 3 of Survey No. 1526 Butte lode and situated on line 1-2 of Survey No. 3598 Fire Fly No. 2 lode
- An iron pipe 4 inches in diameter, 42 inches high above the ground, with copper tag on side, to which I add C3-4-4196 for this claim; from which
- The original location for the southeast corner, being a mound of rocks, 3 ft. high, 3 ft. base, bears S 24° 44' E 216.2 ft. dist.
- thence N 86° 17' W
- 210.00 To south end center, being a mound of rocks, 3 ft. high, 3 ft. base, from which
- The original location for the south end center, being a mound of rocks 3 ft. high, 3 ft. base, bears South 210 ft. dist.
- 296.46 To Cors. 2 and 1 of Survey No. 3598 Fire Fly No. 2 and Fire Fly lodes, respectively

334.0 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:-
 South 290.0 ft., and North 350.4 ft.

AREAS

Total area, Colorado # 3 lode - - - - - acres
 5.812

Area in conflict with -

Survey No. 1526 Quien Sabe lode - - - - - 0.217
 Survey No. 1526 Main Stay lode - - - - - 0.009
 Survey No. 1526 Arkansas lode - - - - - 5.585

LOCATION

This survey is located in the SW⁴NE⁴ and the NW⁴SE⁴ of Sec. 27, T 12 S, R 6 W, G & S R ~~E~~ M, Arizona.

The original location of this lode claim is duly noted in the notes and on the accompanying plat.

EXPENDITURE OF \$500

I certify that the value of the labor and improvements made upon or for the benefit of this lode location 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 North 290 ft. from the south end center, 4 ft. wide, 10 ft. face, running N 40° E 14 ft. to face.
 Value \$55
- No. 2 An open cut, the mouth of which bears N 3° 45' W 292 ft. from the south end center, 4 ft. wide, 10 ft. face, running N 4° E 16 ft. to face
 Value \$65
- No. 3 A shaft, the center of which bears N 8° 46' W 373 ft. from the south end center, 6x10 ft., 10 ft. deep
 Value \$ 150
- No. 4 An open cut, the mouth of which bears N 19° E 346 ft. from the south end center, 8 ft. wide, 14 ft. face, running North 12 ft. to face
 Value \$ 130
- No. 5 An open cut, the mouth of which bears N 10° 07' E 293 ft. from the south end center, 6 ft. wide, 6 ft. face, running S 80° E 12 ft. to face, at face is a shaft 4x6 ft. 3 ft. deep
 Value of open cut and shaft \$ 85.00
- No. 6 An open cut, the mouth of which bears N 2° 36' E 242 ft. from the south end center, 5 ft. wide, 10 ft. face, running N 50° E 20 ft. to face, at face is tunnel 5x6 ft. running N 50° E 9 ft. to point, thence tunnel 4x6 ft. running N 30° E 12.5 ft. to breast
 Value of open cut and tunnel \$ 335

No. 7 An open cut, the mouth of which bears N 8° 15' E 156 ft. from Cor. No. 1, 4 ft. wide, 6 ft. face, running S 60° W 12 ft. to face
Value \$ 35

No. 8 A trench, the east end of which is on the center line 74 ft. from the south end center, 3x3 ft., running S 85° W 28 ft. to west end
Value \$ 65

No. 9 A trench, the east end of which bears N 12° 37' W 57 ft. from the south end center, 3x3 ft., running S 80° W 21 ft. to west end
Value \$ 50

REPORT

See:

The 1/4 Cor. between Secs. 26 and 27, T 12 S, R 6 W has been removed as it is in the center of the main steam shovel pit of the Phelps Dodge Corporation, New Cornelia Branch.

Corners not described in notes:-

Survey No. 1526 - Cor. No. 5 Main Stay and Cor. No. 4 Arkansas - an iron pipe 4 inches in diameter, 3 1/2 ft. out of the ground, set in concrete with copper tag properly marked. Cor. No. 3 Arkansas lode is a monument of rock, post missing.

Survey No. 3598 - Fire Fly No. 2 lode, Cors. 1 and 2 are pine posts 4 inches square, set in ground in mound of stones, properly marked; Fire Fly lode, Cors. 1 and 2 are pine posts, 4 inches square, set in the ground in a mound of stones, properly marked.

Lines:-

Survey No. 1526 - Butte lode, I find line 3-4 to be N 3° 46' E 578.19 ft. instead of N 3° 30' E 600 ft. Main Stay lode, I find line 4-5 to be N 88° 23' W 1186.61 ft. instead of N 86° 30' W 1180 ft.

The original field notes of Survey No. 1526 establish Cor. No. 4 of the Butte lode and Cor. No. 1 of the Arkansas lode as being on line 2-3 of the Quien Sabe lode, therefore the portion of line 2-3 of the Quien Sabe lode from Cor. 1 of the Arkansas lode to Cor. 3 of the Quien Sabe lode I find to be N 75° 11' W 316.22 ft. instead of N 86° 30' W 320 ft.

The same notes establish Cor. No. 4 of the Main Stay and Cor. No. 3 of the Quien Sabe lode as being on line 4-1 of the Arkansas lode; therefore the portion of line 4-1 of the Arkansas from Cor. No. 4 thereof to Cor. No. 4 of the Main Stay lode I find to be S 88° 23' E 1186.61 ft. instead of S 86° 30' E 1180 ft., and the portion of line 4-1 from Cor. No. 4 of the Main Stay lode to Cor. No. 1 of the Arkansas I find to be S 75° 11' E 316.22 ft. instead of S 86° 30' E 320 ft.

Arkansas lode; I find line 2-3 to be N 86° 14' W 1494.72 ft. instead of N 86° 30' W 1500 ft.

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 Colorado # 3 lode

and showing the respective capacities in which they acted.

George Erickson, Chainman.

_____, Chainman.

_____, Axman.

_____, Flagman.

FINAL OATHS OF ASSISTANTS

~~We~~, I, George Erickson

and _____, do solemnly swear that ~~we~~ I 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 Colorado # 3 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.

George Erickson Chainman.

_____, Chainman.

_____, Axman.

_____, Flagman.

Subscribed and sworn to by the above-named persons before me this 16th

day of July, 19 37

W. H. Miescher

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

My ~~commission expires~~ My Commission Expires Feb. 3, 1941.

DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

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 Office Cadastral
Engineer, at Phoenix, Arizona, dated April 16, 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
Colorado # 3 lode,
situate in Ajo Mining District,
Pima County, Arizona, in Section
27, Township No. 12 S, Range No. 6 W, G&SRM
and designated as Survey No. 4196, 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

Notary Public this 16th

day of July, 1937

J. J. Meschen

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

My ~~commission expires~~ My Commission Expires Feb. 3, 1941

OFFICE CADASTRAL ENGINEER'S FINAL CERTIFICATE ON FIELD NOTES

Department of the Interior

PUBLIC SURVEY OFFICE

Phoenix, Arizona

August 31, 1937

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 COLORADO #3 lode

situate in Ajo

Mining District Pima County Arizona

in Section 27, Township No. 12 S, Range No. 6 W., and

designated as Survey No. 4196, 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 6 cuts, 2 shafts, 1 tunnel and 2 trenches, total value \$970.

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

DEPARTMENT OF THE INTERIOR
PUBLIC SURVEY OFFICE

At Phoenix, Arizona

August 31, 1937, 192-

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

COLORADO #3 lode

situate in Ajo mining district,

Pima County, Arizona

in Section 27, Township No. 12 S., Range No. 6 W.

_____, designated as Survey No. 4196

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

Surveyor, July 1 - 10, 1937, under my instructions dated

April 16, 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.