

MINERAL SURVEY No. 3547

Arizona Land District

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Phelps Dodge Corporation

KNOWN AS THE

PROVIDENCIA, APACHE and IMPERIAL Lodes

Copper Mountain Mining District,

Greenlee County, Arizona

Section 20 Uns., Township 4 South, Range 29 E., G. & S. R. B. & M.

Surveyed under instructions dated September 26, 1918

by E. T. Morton U. S. Mineral Surveyor.

Claim located see location notices, 19

Survey commenced October 4, 1918

Survey completed October 10, 1918

Address of claimant: Morris & Malott, Attys., Box 879, Globe, Arizona.

DATES OF AMENDED LOCATIONS.

(1)

Feet	SURVEY NO. 3547
	Providencia lode
	Beginning at Cor. No. 1.
	Identical with Cor. No. 1, Sur. No. 2858, Copper Pig lode.
	A pine post, in place, 4x6 ins., 3.5 ft. high, with mound of stone, scribed P 1-3547, whence
	The SE. Cor. Sec. 13, T. 4. S. R. 29 E., G. & S. B. & M., bears N.80°11'W. 9855.3 ft.
	----- Thence N. 71° 01' E.
1000	Intersect gulch, course NW.
1300	Intersect wagon road, course NW. to SE.
1469.4	To Cor. No. 2.
	On line 4-1, Sur. No. 2858, Copper Pig lode.
	A pine post, in place, 4x6 ins., 3.5 ft. high, with mound of stone. scribed P 2-3547.
	No bearings available.
	----- Thence S.30° 06' E.
6.7	Cor. No. 9, Sur. No. 1172, Crown lode.
169.1	Cor. No. 2, Apache lode, of this survey.
191.7	NE. end center of the location and lode.
344.3	Witness Cor. for Cor. No. 3.
	A pine post, 4x6 ins., 5 ft. long, set 24 ins. in the ground, with mound of stone, scribed WC-P 3-3547.
370.1	To Cor. No. 3.
	Impracticable to set corner on account of wagon road.
	On line 2-3, Apache lode, of this survey.
	Witness corner, ^{heretofore described,} bears N. 30°06'E. 25.8 ft.
	The SE. Cor., Black Hawk lode, unsurveyed, bears S.34° 20'W. 243.74 ft.
	----- Thence S. 71° 01' W.
250	Intersect gulch, course NW.
309.16	Intersect the NE. side line of the Black Hawk lode, unsurveyed, at S.56°58'E. 52.15 ft. from its intersection

Feet	with line 1-2 Apache lode, of this survey, and 385.06 ft. from the NE. Cor.
420.88	Intersect line 1-2, Apache lode, of this survey, at S.43° 43'W. (89.67 ft. from its intersection with the NE. side line of the Black Hawk lode, unsurveyed, and ^{430.02} 340.55 ft.) from Cor. No. 2.
472.71	Intersect the NE. end line of the Game Cock lode, unsurveyed, at S. 62°54'E. 345.53 ft. from the NE. Cor.
518.02	Intersect the SW. side line of the Black Hawk lode, unsurveyed, at S.56°58'E. 315.79 ft. from the NW. Cor.
1469.4	To Cor. NO. 4. On the NW. side line of the Game Cock lode, unsurveyed, at S.52°49'W. 796.9 ft. from the NE. Cor. A pine post, in place, 4x6 ins., 3.5 ft. high, with mound of stone, scribed P 4-3547. No bearings available.
	----- Thence N.30° 06' W.
178.4	S.W. end center of the location and lode.
370.1	To Cor. No. 1, the place of beginning. ----- Apache lode. Beginning at Cor. No. 1. A pine post, in place, 4x6 ins., 3.5 ft. high, with mound of stone, scribed A 1-3547, whence The SE. Cor. Sec. 13, T. 4 S., R. 28 E., G. & S. R. B. & M., bears N. 76°31'W. 10436.2 ft. The SE. Cor. of the Game Cock lode, unsurveyed, ^{brs.} N.55° 09'E. 1119.6 ft.
	----- Thence N. 43° 43' E.
992.06	Intersect the SW. side line of the Black Hawk lode, unsurveyed, at N.56°58'W. 208.67 ft. from the SW. Cor. S.E. Cor. said Black Hawk lode, and intersection of southeast end line thereof with N.E. end line Game Cock lode, unsurveyed, brs. N.52°50'E. 175 ft. & 65.39 ft, respectively.
1031.02	Intersect the NE. end line of the Game Cock lode, unsurveyed, at N.62°54'W. 224.8 ft. from its intersection

	with the SE. end line of the Black Hawk lode, unsurveyed, and 231.76 ft. from the SE. Cor.
1069.98	Intersect line 3-4 Providencia lode, of this survey, 6.71° of W. 420.88 ft. from Cor. No. 3.
1159.65	Intersect NE. side line of the Black Hawk lode, unsurveyed, at N. 56° 58' W. 236.89 ft. from the SE. Cor. & S. 56° 58' E. 332.91 ft. from the N.E. Cor.
1378.	Intersect wagon road, course N.W. to S.E.
1500	To Cor. No. 2. On line 2-3 Providencia lode, of this survey, N. 30° 06' W 201 ft. from Cor. No. 3. On line 8-9, Sur. No. 1172 Crown lode. A pine post, in place, 4x6 ins., 3.5 ft. high, with mound of stone, scribed A 2-3547. whence The NE. Cor. Black Hawk lode, unsurveyed, bears S. 82° 51' W. 518.34 ft. ----- Thence S. 30° 06' E. 201 Cor. No. 3, Providencia lode, of this survey. 275 NE. end center of the location and lode. 436.1 Cor. No. 8, Sur. No. 1172, Crown lode, and Cor. No. 4, Imperial lode, of this survey. 580. To Cor. No. 3. Identical with Cor. No. 3, Imperial lode, of this survey. On line 1-4, Sur. No. 2857, Norfolk lode, A pine post, in place, 4x6 ins., 3.5 ft. high, with mound of stone, scribed A 3-I 3-3547. No bearings available. ----- Thence S. 43° 45' W. 60 Intersect wagon road, course NW. to SE. 100 Intersect gulch, course SE. 919.8 Cor. No. 4, Sur. No. 2857, Norfolk lode. 1500 To Cor. No. 4. A pine post, in place, 4x6 ins., 3.5 ft. high, with mound of stone, scribed A 4-3547. No bearings available. -----

		Thence N. 30° 06' W.
305	SW. end center of the location and lode.	
488.33	Intersect SE. side line of the Gam ^e Cock lode, unsurveyed, at S. 50° 31' W. 1130.9 ft. from the SE. Cor.	
580	To Cor. No. 1, the place of beginning.	

		Imperial lode
	Beginning at Cor. No. 1.	
	Identical with Cors. Nos. 1 and 4, Sur. No. 2857, Nor- folk and First West Extension Thompson lodes, respectively.	
	On line 7-8, Sur. No. 1172 Crown lode.	
	A pine post, in place, 4x6 ins., 3.5 ft. high, with mound of stone, scribed I 1-3547, whence	
	U. S. L. M. No. 1654, bears N. 24° 21' E. 6292.5 ft.	

		Thence S. 30° 06' E.
72.9	NE. end center of the location and lode.	
143.9	To Cor. No. 2.	
	A pine post, in place, 4x6 ins., 3.5 ft. high, with mound of stone, scribed I 2-3547.	
	No bearings available.	

		Thence E. 58° 04' W.
50.3	Intersect lines 1-2 and 3-4, Sur. No. 2857, Norfolk and First West Extension Thompson lodes, respectively, at S. 11° 02' E. 155.9 ft. from Cors. Nos. 1 and 4. respec- tively.	
557.5	To Cor. No. 3: Identical with Cor. No. 3, Apache lode, of this survey, heretofore described. On line 1-4, Sur. No. 2857, Norfolk lode, at S. 43° 43' W. 580.21 ft. from Cor. No. 1.	

		Thence N. 30° 06' W.
71	SW. end center of the location and lode.	

Feet
143.9

To Cor. No. 4.

Identical with Cor. No. 8, Sur. No. 1172, Crown lode.
On line 2-3, Apache lode, of this survey.

A pine post, in place, 4x6 ins. 3.5 ft. high, with
mound of stone, scribed I 4-3547.

No bearings available.

Thence N. 58° 04' E.

557.5

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

Variation at all corners 13°45' E.

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.

Providencia lode.

75 ft. N. 71° 01' E., and 1394.4 ft. S. 71° 01' W. ✓

Apache lode

25 ft. N. 43° 43' E., and 1475 ft. S. 43° 43' W. ✓

Imperial lode

225 ft. S. 58° 04' W., and 332.5 ft. N. 58° 04' E. ✓

AREAS

Acres Acres

Total are Providencia lode.

12.250 ✓

Area in conflict with:-

Apache lode, of this survey.

0.953 ✓

Black Hawk lode, unsurveyed.

1.324 ✓

Apache lode, of this survey, (exclusive of its
common conflict with the Black Hawk lode, uns.

0.900 ✓

Game Cock lode, unsurveyed.

2.847 ✓

Black Hawk lode, unsurveyed, (exclusive of its
common conflict with the Game Cock lode, uns.

1.195 ✓

Total area Apache lode.	19.181 ✓
Area in conflict with:-	
Black Hawk lode, unsurveyed.	0.842 ✓
Game Cock lode, unsurveyed.	3.802 ✓
Black Hawk lode, unsurveyed, (exclusive of its common conflict with the Game Cock lode, uns.	0.598 ✓
Total area Imperial lode.	1.841 ✓
Area in conflict with:-	
Sur. No. 2857, Norfolk lode.	0.837 ✓
Sur. No. 2857, First West Extension Thompson lode	0.083 ✓

LOCATION

This survey is located, ~~approximately~~, in Section 20, unsurveyed, T. 4 S. R. 29 E., G. & S. R. B. & M., Copper Mountain Mining District. ----- Greenlee County, Arizona.

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:

Apache lode

No. 1. The discovery, showing mineral in place, on the lode line 25 ft. from the NE. end center.

No. 2. A tunnel, with open cut approach the mouth of which bears from a point on line 1-2, 340.35 ft. from Cor. No. 2, S.63°45'E. 256 ft., running N.50°50'E. 13 ft. in 5x10 ft. open cut, and 32 ft. in 5x6 ft. tunnel.

Value \$ 400.

No. 3. A tunnel, with open cut approach the mouth of which bears from the NE. end center S.49°50'E. 96 ft., running S.40° W. 83 ft. The last 24 ft. of this 5x7 ft. tunnel is on the Apache lode, the first 59 ft. being on the Crown lode, Sur. No. 1172.

Value last 24 ft. \$ 300.

Providencia lode

No. 1. The discovery, showing mineral in place, on the lode line

(7)

75 ft. from the N. E. end center.

No. 2. A shaft, the center of which bears from the N. E. end center N. 46° W. 29 ft., 4x6 ft. 100 ft. deep.

Value. \$ 1500.

Imperial lode

No. 1. The discovery, showing mineral in place, on the lode line 225 ft. from the SW. end center.

No. 2. A tunnel, with open cut approach the mouth of which bears from Cor. No. 4, N.66°E. 129 ft., S.32°W. 27 ft. in 5x10 ft. open cut, and 98 ft. in 5x7 ft. tunnel.

Value \$ 1500.

ADJOINING LODES

The adjoining lodes are, on the East Sur. No. 1172 Crown lode, Phelps Dodge Corporation, claimant, ~~herein~~, and Sur. No. 2857 First West Extension Thompson lode, and Norfolk lode, Arizona Copper Company, claimant; on the West, the Game Cock and Black Hawk lodes, unsurveyed, Jas. Bartlett, claimant, and on the North, Sur. No. 2858, Copper Pig lode, Arizona Copper Company, claimant.

REPORT

The SE. Cor. Section 13. T. 4 S. R. 28 E. G. & S. R. B. & M. is an iron rod with brass cap, properly set and scribed.

Sur. No. 1172, Copper Crown lode;

All corners are posts properly set and scribed.

Sur. No. 2857, First West Extension Thompson and Norfolk lodes:

All corners are posts properly set and scribed.

Sur. No. 2858, Copper Pig lode:

All corners are posts properly set and scribed.

Game Cock and Black Hawk lodes; unsurveyed:

All corners are posts properly set and marked.

The survey of each lode of this mining claim is identical with the respective location as staked on the ground.

The differences between these field notes and the returns on pre-

vious surveys are due to errors in the latter.

The differences between these field notes and the location certificates are due to errors in the latter.

All end center monuments are mounds of stone.

All corner points are marked with tacks.

It appears that the East $\frac{1}{4}$ Cor. Sec. 24, T., 4 S., R. 28 E. is closer than the SE. Cor. of Sec. 13, but it cannot be found.

E. T. Morton

U. S. Mineral Surveyor.

FINAL OATHS FOR SURVEYS.

LIST OF NAMES.

A list of the names of the individuals employed by E.T. Morton
 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 Providencia, Apache and Imperial lodes _____
 and showing the respective capacities in which they acted.

_____J. L. Awalt_____, *Chainman.*
 _____Pablo Gonzales_____, *Chainman.*
 _____, *Arman.*
 _____, *Flagman.*

FINAL OATHS OF ASSISTANTS.

We, _____J. L. Awalt_____
 and _____Pablo Gonzales_____, do solemnly swear that we assisted _____
 _____E. T. Morton_____, United States Mineral Surveyor, in marking the corners and surveying
 the boundaries of the mining claim of _____Phelps Dodge Corporation_____

 known as the _____Providencia, Apache and Imperial lodes_____
 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 United States Surveyor-General for _____Arizona_____

_____J. L. Awalt_____, *Chainman.*
 _____Pablo Gonzales_____, *Chainman.*
 _____, *Arman.*
 _____, *Flagman*

Subscribed and sworn to by the above-named persons before me this 25th
 day of Nov., 1918

Louis P. Payne

6-1048

My commission expires Feb. 20-1919.



FINAL OATH OF U. S. MINERAL SURVEYOR.

I, E.T. Morton, U. S. Mineral Surveyor, do solemnly swear that, in pursuance of instructions received from the United States Surveyor General for Arizona, dated September 26, 1918, 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 Providencia, Apache and Imperial lodes, situate in Copper Mountain Mining District, Greenlee County, Arizona, in Section 20 Uns., Township No. 4 S., Range No. 29 E., G. & S. R. B. & M., and designated as Survey No. 3547, 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.

E.T. Morton
U. S. Mineral Surveyor.

Subscribed and sworn to by the said E.T. Morton
U. S. Mineral Surveyor, before me Louis T. Payne
Notary Public this 25th
day of Nov., 1918

Louis T. Payne
Notary Public

My commission expires Feb. 20. 1919



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

Department of the Interior,

OFFICE OF U. S. SURVEYOR-GENERAL,

Phoenix, Arizona,

March 4, 1919

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 Providencia, Apache and Imperial lodes

situate in Copper Mountain

Mining District, Greenlee County, Arizona.

in Section 20 uns., Township No. 4 S., Range No. 29 E., and

designated as Survey No. 3547, 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 2 cuts, 3 tunnels and 1 shaft, total value \$3700.

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.

Frank P. Trott,

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,

March 4, 1919

I, U. S. Surveyor General for District 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

Providencia, Apache and Imperial lodes

situate in Copper Mountain mining district,

Greenlee

County,

Arizona

in Section 20 uns., Township No. 4 S., Range No. 29 E.

, designated as Survey No. 3547

executed by E. T. Morton, U. S. Mineral

Surveyor, October 4-10, 1918, under my instructions dated

Sept. 26, 1918, have been critically examined and the necessary cor-

rections 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.

Frank P. Frost

U. S. Surveyor General for Arizona.