

NOV 10 1921

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MINERAL SURVEY No. 3801

ARIZONA

Land District.

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

IRON CAP COPPER COMPANY

KNOWN AS THE

Hope, Hope No. 2, Hope No. 3, Merrick and Dorr Lodes.

Globe

Mining District,

Gila

County, Arizona in

Section s 10 and 15, Township 1 N., Range 15 E.

Surveyed under instructions dated August 15, 1921.

by Edwin T. Stewart

U. S. Mineral Surveyor.

Claim located See location notices, 19

Survey commenced October 1, 1921.

Survey completed October 9, 1921.

Address of claimant's attorneys, Morris & Malott,
Box 879, Globe, Arizona.

DATES OF AMENDED LOCATIONS.

See location notices

No. 1

Feet.

MINERAL SURVEY NO 3801.

Hope lode.

Beginning at Cor. No. 1, identical with N.W. corner of the location and Cor. III, Big ^{Jonny} ~~Jennie~~ lode, Sur. 434.

On line 1-2, Rooster lode, Sur. 2302, N. 51°-36'W. 177.4 ft. from Cor. No. 2.

In order to mark this corner with a more permanent monument, I removed the old post and set a standard 3 in. iron pipe, 4 ft. long, with cap divided in quadrants and stamped B.J. No. III 434 in the quadrant facing said Big ^{Jonny} ~~Jennie~~ claim and 1-H-3801 in the quadrant facing this claim, 36 ins. in concrete base, whence

The closing corner of sections 10 and 15, on the Range line between T's 1 N., R's 15 and 15½ E., bears N. 03°-05' W. 985.9 ft.

Cor. No. 1, Search Me lode, Sur. 3233, bears S. 22°-38'W. 109.2 ft.

No other bearings available.

Thence N. 48°-59'E.

Along line III-II, Big ^{Jonny} ~~Jennie~~ lode, Sur. 434.

1468.50 To Cor. No. 2, identical with N.E. Cor. of the location, Cor. II of said Big ^{Jonny} ~~Jennie~~ lode, Cor. II, O'Dougherty lode, Sur. 433, and Cor. No. 3, Hope No. 2, Lode, this survey.

In order to mark this corner with a more substantial monument, I removed the old post and set a standard 3 in. iron pipe, 4 ft. long, with iron cap divided in quadrants, stamped B.J. No. II-434 in the quadrant facing said Big ^{Jonny} ~~Jennie~~ claim, O'D. No. II-433 in the quadrant facing said O'Dougherty claim and 2-H-3801 in the quadrant facing this claim, 32 ins. in concrete base.

No bearings available.

Thence S. 44°-39'E.

Along line 3-2 of said Hope No. 2 lode.

300.00 To N.E.E.C. monument of the location, from which the discovery cut bears S. 48°-59'W. 15.0 ft.

Feet.	A monument of stone, 4 ft. base, 3 ft. high.
309.40	To S.W.E.C. of said Hope No. 2 lode.
425.70	To Cor. No. 3, identical with S.E. corner of the location. At the intersection of line 3-4, Side Hill lode, Sur. 3233, with line 2-3, Hope No. 2 lode, this survey. A diabase stone, 5 x 6 x 24 ins., chiseled cross at the exact corner and 3-H-3801 on the side facing the claim, set 12 ins. in the ground, with mound of stone alongside, whence Cor. No. 2, Search Me lode, Sur. 3233, bears S.29°-16'W. 166.7 ft. No other bearings available. Thence S.52°-21'W. Along line 4-3 of said Side Hill lode.
428.00	Intersect line 1-2, Search Me lode, Sur. 3233, S.65°-45'W. 282.3 ft. from Cor. No. 2, and N.65°-45'E. 1217.8 ft. from Cor. No. 1.
565.00	To Cor. No. 3 of said Side Hill lode.
1476.50	To Cor. No. 4, identical with S.W. Cor. of the location. A standard 3 in, iron pipe, 4 ft. long, with iron cap divided in quadrants and stamped 4-H-3801 in the quadrant facing the claim, set 32 ins. in concrete base, whence A quartzite stone, 10 x 12 ins., flush with the ground, chiseled cross B.R. 3801, bears S.56°-13'W. 11.95 ft. No other bearings available. Thence N.44°-39'W.
38.90	To S.W.E.C. monument of the location. A monument of stone, 3 ft. base, 3.5 ft. high.
167.35	Intersect line 2-3, Rooster lode, Sur. 2302, S.57°-18'W. 21.95 ft. from Cor. No. 2.
259.30	Intersect line 1-2, Search Me lode, Sur. 3233, N.65°-45'E. 107.45 ft. from Cor. No. 1 and S.65°-45'W. 10.85 ft. from the intersection of said line 1-2, Search Me Lode, with line 1-2 Rooster lode, Sur. 2302.
338.90	To Cor. No. 1, the place of beginning.

Feet.

HOPE NO. 2 Lode.

Beginning at Cor. No. 1, identical with N.E. Cor. of the location.

At the intersection of line 1-2, Merrick lode, with line 2-3, Hope No. 3 lode, both of this survey, being N.54°-58'E. 1047.8 ft. from Cor. No. 2 of said Hope No. 3 lode.

A diabase stone, 5 x 6 x 24 ins., chiseled cross at the exact corner and 1-H2-3801, set 12 ins. in the ground, with mound of stone alongside, whence

The quarter corner between sections 10 and 15, T. 1 N., R. 15½ E., bears S. 18°-10'-10"E. 799.7 ft.

No other bearings available.

Thence S.31°-07'W.

889.20 Intersect the section line between sections 10 and 15, T. 1 N., R. 15½ E., S.89°-52'W. 708.9 ft. from the quarter corner and N.89°-52'E. 1876.8 ft. from the closing corner.

903.60 Intersect line 1-2, Hope No. 3 lode, this survey, S.56°-14'E. 427.2 ft. from Cor. No. 2, and intersect line 3-4, Side Hill lode, Sur. 3233, S.52°-21'W. 184.35 ft. from Cor. No. 4.

1432.80 To Cor. No. 2, identical with S.E. Cor. of the location. A diabase stone, 4 x 7 x 24 ins., chiseled cross at the exact corner and 2-H2-3801, set 12 ins. in the ground, with mound of stone alongside.

No bearings available.

Thence N.44°-39'W.

193.10 To Cor. No. 3, Hope lode, this survey, and intersect line 3-4, Side Hill lode, Sur. 3233, S.52°-21'W. 701.15 ft. from Cor. No. 4.

Along line 3-2 of said Hope lode.

369.40 To S.W.E.C. monument of the location, from which the discovery cut bears N.31°-07'E. 40.0 ft.

A monument of stone, 4 ft. base, 3 ft. high.

feet.

318.80 To N.E.E.C. of said Hope lode.

618.80 To Cor. No. 3, identical with S.W. Cor. of the location, Cor. No. 2, Hope lode this survey, Cor. II, Big ^{Jonny} ~~Jennie~~ lode, Sur. 434 and Cor. II, O'Dougherty lode, Sur. 433.

An iron pipe, with cap, previously described, to which I add 3-H2-3801, in the quadrant facing this claim.

Thence N. 31°-07'E.

Along line II-III of said O'Dougherty lode.

27.50 Intersect the section line between sections 10 and 15, T. 1 N., R. 15½E., S. 89°-52'W. 1410.50 ft. from the quarter corner and N. 89°-52'E. 1175.2 ft. from the closing corner.

1415.10 Intersect line 1-2, Speck lode, Sur. 3659, N. 42°-03'W. 494.5 ft. from Cor. No. 1.

1432.80 To Cor. No. 4, identical with N.W. Cor. of the location and Cor. III of said O'Dougherty lode.

In order to mark this corner with a more permanent monument, I removed the old post and set a standard 3 in. iron pipe. 4 ft. long, with iron cap divided in quadrants, stamped O'D No. III-433 in the quadrant facing said O'Dougherty claim, and 4-H2-3801 in the quadrant facing this claim, 34 ins. in concrete base, whence Cor. No. 2, Speck lode, Sur. 3659, identical with Cor. No. 2, Yuma Copper lode, Sur. 842, bears N. 51°-56'W. 101.8 ft.

No other bearings available.

Thence S. 44°-39'E.

309.40 To N.E.E.C. monument of the location.

A monument of stone, 3 ft. base, 3.5 ft. high.

500.15 To Cor. No. 2, Merrick lode, this survey, and intersect line 4-1, Speck lode, Sur. 3659, N. 47°-57'E. 39.5 ft. from Cor. No. 1.

Along line 2-1 of said Merrick lode.

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

HOPE NO. 3 Lode.

Beginning at Cor. No. 1, identical with S.W. corner of

- Feet. the location and Cor. No. 1, Cora May lode, Sur. 3233.
 A pine post, 4 ins. sq., with nail at the exact corner, showing 20 ins. above the ground, scribed 1-CM-3233 for said Cora May lode, to which I add 1-H3-3801, on the side facing this claim.
 A diabase boulder, showing 1 x 4 x 5.5 ft. out of the ground, chiseled cross B.R. 3233, to which I add 3801, bears S.87°-23'W. 6.45 ft.
 The quarter corner between sections 10 and 15, T. 1 N., R. 15½ E., bears N.77°-21'E. 507.9 ft.
 Cor. No. 4, Side Hill lode, Sur. 3233, bears N.19°-38'W. 222.8 ft.
 No other bearings available.
 Thence N.66°-14'W.
 241.30 Intersect line 3-4, Side Hill lode, Sur. 3233, S. 52°-21'W. 184.35 ft. from Cor. No. 4, and intersect line 1-2, Hope No. 2 lode, this survey, S. 31°-07'W. 903.6 ft. from Cor. No. 1.
 271.70 Intersect the section line between sections 10 and 15, T. 1 N., R. 15½ E., S.89°-52'W. 744.2 ft. from the quarter corner and N.89°-52'E. 1841.5 ft. from the closing corner.
 334.20 To S.W.E.C. monument of the location, from which the discovery shaft bears N.54°-58'E. 1447.7 ft.
 A monument of stone, 3 ft. base, 3 ft. high.
 668.50 To Cor. No. 2, identical with N.W. Cor. of the location.
 A diabase stone, 10 x 12 x 29 ins., chiseled cross at the exact corner and 2-H3-3801, with mound of stone alongside.
 No bearings available.
 Thence N.54°-58'E.
 1047.80 To Cor. No. 1, Hope No. 2 lode, this survey, and intersect line 1-2, Merrick lode, also of this survey, N.44°-39'W. 339.45 ft. from Cor. No. 1.
 1496.70 To Cor. No. 3, identical with N.E. Cor. of the location.
 A diabase stone, 6 x 8 x 24 ins., chiseled cross at the exact corner and 3-H3-3801, with mound of stone alongside.

Feet.

whence

A diabase boulder, showing 2 x 4 x 5 ft. out of the ground, chiseled cross B.R. 3801, bears S. 43°-30'E. 25.1 ft.

No other bearings available.

Thence S. 66°-14'E.

311.50 To Cor. No. 1, Dorr lode, this survey, and intersect line 4-1, Merrick lode, also of this survey, N. 47°-57'E. 557.7 ft. from Cor. No. 1.

Along line 1-6 of said Dorr lode.

334.30 To N.E.E.C. monument of the location.

A monument of stone, 3 ft. base, 3 ft. high.

628.30 To S.W.E.C. of said Dorr lode.

661.80 To Cor. No. 4, identical with S.E. Cor. of the location and Cor. No. 6 of said Dorr lode.

On line 1-2, Oneida No. 1 lode, Sur. 3791, (~~unapproved~~)

A quartzite stone, 6 x 6 x 24 ins., chiseled cross at the exact corner and 4-H3-3801 on the side facing this claim, set 12 ins. in the ground, with mound of stone alongside.

No bearings available.

Thence S. 47°-55'W.

Along line 2-1 of said Oneida No. 1 lode.

44.10 To Cor. No. 5, identical with monument of the location and Cor. No. 2, Cora May lode, Sur. 3233.

A pine post, 4 ins. sq., with nail at the exact corner, showing 24 ins. out of the ground, scribed 2-CM-3233 for said Cora May lode, to which I add 5-H3-3801 on the side facing this claim, whence

Cor. No. 1, Oneida No. 1 lode, Sur. 3791, (~~unapproved~~), bears S. 47°-55'W. 33.6 ft.

A quartzite boulder showing 1 x 1.5 x 3 ft. out of the ground, chiseled cross B.R. 3233, to which I add 3801, bears N38°-15'E. 9.0 ft.

No other bearings available.

Thence S. 54°-57'W.

Feet.

- Along line 2-1 of said Cora May lode.
- 1257.30 Intersect the section line between sections 10 and 15, T. 1 N., R. 15½ E., S. 89°-52'W. 338.1 ft. from the quarter corner and N. 89°-52'E. 2247.6 ft. from the closing corner.
- 1409.00 Intersect line 4-1, Side Hill lode, Sur. 3233, S. 30°-05'E. 215.60 ft. from Cor. No. 4.
- 1449.60 To Cor. No. 1, the place of beginning.

MERRICK Lode.

Beginning at Cor. No. 1, identical with S.W. Cor. of the location.

A diabase stone, 6 x 9 x 25 ins., chiseled cross at the exact corner and 1-M-3801, with mound of stone alongside, whence

The quarter corner between sections 10 and 15, T. 1 N., R. 15½ E., bears S:01°-11'-40"E. 518.4 ft.

Cor. No. 3, Hope No. 3 lode, this survey bears N. 14°-30'E. 515.55 ft.

No other bearings available.

Thence N. 44°-39'W.

- 165.40 To S.W.E.C. monument of the location, from which the discovery shaft bears N. 47°-57'E. 826.20 ft.

A monument of stone, 3 ft. base, 3 ft. high.

- 339.45 To Cor. No. 1, Hope No. 2 lode, this survey, and intersect line 2-3, Hope No. 3 lode, also of this survey, S. 54°-58'W 448.9 ft. from Cor. No. 3.

Along line 1-4, of said Hope No. 2 lode:

- 458.10 To Cor. No. 2, identical with N.W. Cor. of the location.

At the intersection of line 4-1 of said Hope No. 2 lode with line 4-1, Speck lode, Sur. 3659, being N. 47°-57'E. 39.5 ft. from Cor. No. 1 of said Speck lode.

A standard 3 in. iron pipe, 4 ft. long, with iron cap, divided in quadrants and stamped 2-M-3801 in the quadrant facing the claim, set 35 ins. in concrete base,

No bearings available.

Thence N. 47°-57'E.

Along line 1-4 of said Speck lode.

Feet.	
970.50	Intersect line 3-4, Uno lode, Sur. 3659, N.23°-07'W. 370.0 ft. from Cor. No. 3.
1229.20	To Cor. No. 3, identical with N.E. Cor. of the location. On line 4-1, Speck lode, Sur. 3659, S.47°-57'W. 169.80 ft. from Cor. No. 4.
	A standard 3 in. iron pipe, 4 ft. long, with iron cap divided in quadrants and stamped 3-M-3801 in the quadrant facing the claim, set 28 ins. in concrete base, whence.
	Cor. No. 3, Uno lode, Sur. 3659, bears S.05°-13'W. 515.7 ft.
	No other bearings available.
	Thence S44°-39'E.
292.70	To N.E.E.C. monument of the location. A monument of stone, 3 ft. base, 3.5 ft. high.
458.10	To Cor. No. 4, identical with S.E. Cor. of the location and Cor. No. 2, Dorr lode, this survey. On line 2-3, Uno lode, Sur. 3659, N.63°-02'E. 413.9 ft. from Cor. No. 3.
	A standard 3 in. iron pipe, 4 ft. long, with iron cap divided in quadrants and stamped 4-M-3801 in the quadrant facing this claim, set 34 ins. in concrete base,
	No bearings available.
	Thence S.47°-57'W.
	Along line 2-1, of said Dorr lode.
671.50	To Cor. No. 1 of said Dorr lode and intersect line 3-4, Hope No. 3 lode, this survey, S.66°-14'E. 311.5 ft. from Cor. No. 3.
1229.20	To Cor. No. 1, the place of beginning.
	DORR Lode.
	Beginning at Cor. No. 1, identical with N.W. Cor. of the location.
	At the intersection of lines 3-4 and 4-1, respectively, of Hope No. 3 and Merrick lodes, both of this survey.
	A quartzite stone, 5 x 7 x 24 ins., chiseled cross at the exact corner and 1-D-3801 on the side facing the claim

- Feet. set 12 ins. in the ground, with mound of stone alongside, whence
- The quarter corner between sections 10 and 15, T. 1 N., R. 15½ E., bears S. 24°-20'W. 978.85 ft.
- No other bearings available.
- Thence N. 47°-57'E.
- Along line 1-4 of said Merrick lode.
- 671.50 To Cor. No. 2, identical with monument of the location and Cor. No. 4 of said Merrick lode.
- On line 2-3, Uno lode, Sur. 3659.
- An iron pipe, with cap, previously described, to which I add 2-D-3801, in the quadrant facing this claim
- Thence N. 63°-02'E.
- Along line 3-2 of said Uno lode.
- 946.80 To Cor. No. 3, identical with N.E. Cor. of the location and Cor. No. 4, Claud lode, Sur. 3659.
- On line 2-3, Uno lode, Sur. 3659.
- A quartzite stone, with cross at the exact corner, showing 5 x 9 x 12 ins, out of the ground, with mound of stone alongside, chiseled 4-C-3659 for said Claud lode, to which I add 3-D-3801 on the side facing this claim.
- Cor. No. 2, Uno lode, identical with Cor. No. 3, Dick lode, both of Sur. 3659, bears N. 63°-02'E. 138.5 ft.
- No other bearings available.
- Thence S. 66°-14'E.
- 45.80 To N.E.E.C. monument of the location, from which the discovery shaft bears S. 47°-55'W. 745.0 ft.
- A monument of stone, 3 ft. base, 3 ft. high.
- 182.90 To Cor. No. 4, identical with S.E. Cor. of the location.
- On line 4-1, Oneida No. 2 lode, Sur. 3791, ~~(unapproved.)~~
- A standard 3 in, iron pipe, 4 ft. long, with iron cap divided in quadrants and stamped 4-D-3801 in the quadrant facing the claim, set 31 ins, in concrete base.
- No bearings available.
- Thence S. 62°-11'W.
- Along line 1-4 of said Oneida No. 2 lode.

Feet.

105.45 Intersect line 3-4, Claud lode, Sur. 3659, S.31°-04'E.

143.65 ft. from Cor. No. 4.

383.70 To Cor. No. 5, identical with monument of the location and Cors. 2 and 4, respectively, of Oneida No. 1 and Oneida No. 2 lodes, both of Sur. 3791, (unapproved).

A standard 3 in, iron pipe, with iron cap divided in quadrants, showing 18 ins, out of the concrete base, stamped 2-01-3791 in the quadrant facing said Oneida No. 1 claim and 4-02-3791 in the quadrant facing said Oneida No. 2 claim, to which I add 5-D-3801 in the quadrant facing this claim.

A cedar tree 10 ins, in diameter, blazed and scribed cross B.T. 3791, to which I add 3801, bears N.25°-08'W. 37.2 ft.

No other bearings available.

Thence S.47°-55'W.

Along line 2-1, of said Oneida No. 1 lode.

1145.20 To Cor. No. 6, identical with S.W. Cor. of the location and Cor. No. 4, Hope No. 3 lode, this survey.

On line 1-2 of said Oneida No. 1 lode, N.47°-55'E. 77.7 ft. from Cor. No. 1,

A quartzite stone, previously described, to which I add 6-D-3801 on the side facing this claim.

Thence N.66°-14'W.

Along line 4-3, of said Hope No. 3 lode.

33.50 To S.W.E.C. monument of the location.

A monument of stone, 3 ft. base, 4 ft. high.

327.50 To N.E.E.C. of said Hope No. 3 lode.

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

Mean magnetic variation at all corners, 14°E.

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LODE LINES.

As near as can be determined from present developments, the veins of the several locations embraced in this survey extend as follows from their respective discovery points:

Hope, N.48°-59'E. 15.0 ft. and S.48°-59'W. 1453.5 ft.

Hope, No. 2, N.31°-07'E. 1392,8 ft. and S.31°-07'W. 40.0 ft.

Hope No. 3, N.54°-58'E. 49.0 ft. and S.54°-58'W. 1447.7 ft.

Merrick, N.47°-57'E. 403.0 ft. and S.47°-57'W. 826.2 ft.

Dorr, N.47°-55'E. 745.0 ft. and S.47°-55'W. 729.7 ft.

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AREAS.

	Acres	Acres
Total area Hope lode,		12.862 ✓
Area in conflict with:		
Rooster lode, Sur 2302	0.042 ✓	
Rooster lode, Sur. 2302, 0.042		
acres, exclusive of the common		
conflict, 0.033 acre, between		
said Rooster lode, the Hope lode		
and Search Me lode, Sur. 3233,	0.009 ✓	
Search Me lode, Sur. 3233,	3.097 ✓	
Search Me lode, Sur. 3233, 3.097		
acres, exclusive of the common		
conflict, 0.033 acre, between said		
Search Me lode, the Hope lode and		
with the Rooster lode, Sur. 2302,	3.064 ✓	
Total Area Hope No. 2 lode,		19.729 ✓
Area in conflict with:		
Speck lode, Sur. 3659,	0.323 ✓	
Side Hill lode, Sur. 3233,	1.137 ✓	
Total area Hope No. 3 lode,		19.640 ✓
Area in conflict with:		
Side Hill lode, Sur. 3233	0.548 ✓	
Hope No. 2 lode, this survey,	4.395 ✓	
Total area Merrick lode,		12.914 ✓
Area in conflict with:		
Uno lode, Sur. 3659,	3.113 ✓	
Hope No. 3 lode, this survey,	3.544 ✓	
Total area Dorr lode,		8.892 ✓
Area in conflict with Claud lode,		
Sur. 3659	0.174 ✓	

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LOCATION.

This survey is located in sections 10 and 15, T. 1 N., R. 15½ E., G. & S.R.B. & M., Globe Mining District, Gila County, Arizona.

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ADJOINING AND CONFLICTING CLAIMS.

The Big ^{Jonny} Johnnie lode, Sur. 434, O'Dougherty lode, Sur. 433, and ~~Yuma Copper lode, Sur. 842,~~ owned by the

Old Dominion Company; and the Speck and Uno lodes of Sur. 3659 owned by the Globe Manganese and Copper Co., on the north. The ~~Dick and Salud~~ ^{Claud} lodes, of Sur. 3659, owned by the Globe Manganese and Copper Co., on the east, The Oneida No. 1 and Oneida No. 2 lodes, Sur. 3791, ~~unapproved~~, owned by the Superior & Boston Copper Company; and the Cora May, Side Hill and Search Me lodes, Sur. 3233, owned by the Iron Cap Copper Company, on the south. The Rooster lode, Sur. 2302, owned by the Iron Cap Copper Company on the west.

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DISCOVERY AND IMPROVEMENTS.

I certify that the value of the labor and improvements made upon, or for the benefit of, each of the locations embraced in this survey, by the claimant or its grantors, is not less than five hundred dollars, and that said improvements consist of:

Common Improvement

The claims in this survey are being developed through a system of work extended from a vertical shaft located on the Iron Cap lode, Mineral Survey No. 2430, the center of which bears S.29°-49'E. 3086.9 ft. from Cor. No. 1 of the Hope lode.

The shaft is vertical, three compartment, 17 x 6 ft. 9 ins., 1551 feet deep, timbered throughout, and is valued at \$116,000.00.

At a depth of 800 feet below the collar a level consisting of 3316 ft. of drifting and crosscutting 5 x 7 ft. partially timbered, extends as follows from the center of northwest side of shaft, N.16°-50'W. 115.0 ft. to pt. 1; thence N.34°-45'W. 81.83 ft. to pt. 2; thence N.36°-28'W. 345.28 ft. to pt. 3; thence N.35°-58'W. 138.54 ft. to pt. 4; thence N.35°-59'W. 719.87 ft. to pt. 5; thence N.34°-49'W. 78.20 ft. to pt. 6; thence N.37°-36'W. 121.09 ft. to pt. 7; thence N.35°-59'W. 495.79 ft. to pt. 8; thence N.35°-59'W. 48 ft. to face. And, from pt. 8,

13.

N.04°-13'W. 44.32 ft. to pt. 9; thence N.09°-24'W. 24.38 ft. to pt. 10; thence N.01°-50'W. 29.08 ft. to pt. 11; thence N.55°-39'E. 54.54 ft. to pt. 12; thence N.13°-52'E. 67.69 ft. to pt. 13; thence N.10°-42'E. 67.26 ft. to pt. 14; thence N.19°-59'E. 40.85 ft. to pt. 15; thence N.26°-25'E. 51.89 ft. to pt. 16; thence N.09°-18'W. 36.70 ft. to pt. 17; thence N.10°-00'E. 175.69 ft. to pt. 18; thence N.10°-20'E. 118.0 ft. to face. And, commencing at a point S.18°-06'E. 40.1 ft. from pt. 1; thence S.76°-35'W. 31.74 ft. to pt. 19; thence S.46°-11'W. 34.14 ft. to pt. 20; thence S.56°-03'W. 80.79 ft. to pt. 21; thence S.65°-17'W. 54.95 ft. to pt. 22; thence S.85°-42'W. 51.69 ft. to pt. 23; thence S.78°-23'W. 49.73 ft. to pt. 24; thence S.70°-53'W. 65.11 ft. to pt. 25; thence S.75°-22'W. 65.85 ft. to pt. 26; thence S.75°-22'W. 28.0 ft. to face. Value of level, \$50,000.00.

At a depth of 1218 feet below the collar of the shaft a level, consisting of 701.85 ft. of drifting and cross-cutting 5 x 7 ft., partially timbered, extends as follows: Beginning at the center of the northwest side of shaft, thence N.07°-30'W. 30.0 ft. to pt. 1; thence N.51°-01'E. 63.36 ft. to pt. 2; thence N.35°-43'E. 20.31 ft. to pt. 3; thence N.50°-10'W. 48.83 ft. to pt. 4; thence N.22°-12'E. 44.35 ft. to pt. 5; thence N.53°-20'W. 61.22 ft. to pt. 6; thence N.69°-02'E. 26.45 ft. to pt. 7; thence N.43°-16'E. 24.36 ft. to pt. 8; thence N.50°-06'E. 68.98 ft. to pt. 9; thence N.59°-12'E. 69.23 ft. to pt. 10; thence N.49°-48'E. 65.33 ft. to pt. 11; thence N.22°-40'E. 14.28 ft. to pt. 12; thence N.09°-55'E. 57.66 ft. to pt. 13; thence N.41°-03'E. 29.57 ft. to pt. 14; thence N.49°-28'E. 27.32 ft. to pt. 15; thence N.26°-36'E. 50.60 ft. to face. Value of level; \$8400.00. Total value of improvement \$174,400.00.

This shaft was sunk by the claimant as a common improvement for the development of all their claims in the

District. At present the face of the level driven at a depth of 800 feet below the collar of the shaft is a short distance from the southeast side line of the Hope claim of the survey and it is proposed to continue crosscutting to the Hope vein and by drifting to the northeast along the vein toward the other claims of the survey develop and mine them at depth. The claimant is the owner of 21 claims other than those in the survey, in a group, and which are shown on the one thousand foot to the inch plat, on which the shaft and levels are also platted, filed herewith. One twenty-sixth of the value of the improvement is credited to each of the five claims, in the survey and to Fraction, Copper Age, Marjory, Friends, Olympia, Columbus, Free American, Iron Cap and Columbia lodes, Sur. 2430; the Ninety-Six, Bird, Wedge, Annie and Pinal lodes, Sur, 2312; the Anaconda lode, Sur. 1911; the Bowery Girl lode, Sur. 2315; and the Search Me, Side Hill, High Hill, Cora May and Black Peak lodes, Sur. 3233, \$6707.69 being credited to each claim.

HOPE.

No. 1, the discovery, a cut of irregular shape, averaging 6 x 6 ft., 21 ft. long which is intersected by the lode line 15 ft. from the N.E.E.C. and which extends thence N. 89° E. 13 ft. to face and N. 70° W. 8 ft. to toe. Value \$75.00.

No. 2, 98 ft. of cut and tunnel, 4.5 x 7 ft., the center of the toe of which bears N. 68°-33' W. 107.6 ft. from the N.E.E.C. and which extends thence S. 76° E. 34.0 ft. to pt. 1; thence N. 82° E 28 ft. to face. And, from a point N. 82° E. 15 ft. from pt. 1, S. 45° E 36 ft. to face. Value \$1000.00.

No. 3, 55 ft. of cut and tunnel, 4 x 6 ft., the center of the toe of which bears N. 49°-03' W. 117.3 ft. from the N.E.E.C., and which extends thence N. 61° W. to face. Value, \$500.00.

1/26th of the common improvement; value, \$6707.69.

HOPE NO. 2.

15.

No. 1, the discovery, cut, 3.5 x 8 x 13 ft., which is intersected by the lode line 40.0 ft, from the S.W.E.C., and which extends thence N.79°E. 2.5 ft. to face, and S.79°W. 10.5 ft. to toe. Value \$25.00.

No. 2, 210 ft. of cut and tunnel, 5 x 7 ft., the center of the toe of which bears S.62°-15'E. 302.4 ft. from Cor. No. 3, and which extends thence S.44°E 56.0 ft.; thence S.82°E 15.0 ft. to face. And, from a point, S.44°E. 25.0 ft. from toe, N.84°E. 77.0 ft.; thence N.68°E. 27.0 ft.; thence S.80°E. 35 ft. to face. Value \$2500.00.

1/26th of the common improvement, value. \$6707.69.

HOPE NO. 3.

No. 1, the discovery, shaft, 4 x 6 x 8 ft., the center of which is on the lode line 49.0 ft. from the N.E.E.C. Value, \$40.00.

No. 2, 130 ft. of cut and tunnel, 4.5 x 6.5 ft., the center of the toe of which bears N.70°-11'E. 449.8 ft. from a point on line 2-3, 1047.8 ft. from Cor. No. 2, and which extends thence S.20°-30'W. to face. Value, \$1500.00.

1/26th of the common improvement, value, \$6707.69.

MERRICK.

No. 1, the discovery, shaft, 4 x 6 x 8 ft., the center of which is on the lode line 403.0 ft. from the N.E.E.C. Value, \$40.00.

1/26th of the common improvement, value, \$6707.69.

DORR.

No. 1, the discovery, shaft, 4 x 6 x 8 ft., the center of which is on the lode line, 745.0 ft. from the N.E.E.C. Value, \$40.00.

1/26th of the common improvement, value, \$6707.69.

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INSTRUMENT AND DETERMINATION OF MERIDIAN.

This survey was made with a 6½ inch Berger transit.

The courses were deflected from the true meridian as determined by direct solar observation. The distances were measured with a 660 foot steel tape.

REPORT.

The quarter corner between sections 10 and 15, T. 1 N., R. 15½ E., is a diabase stone, showing 5 x 12 x 12 ins. out of the ground, chiseled 1/4 on the north face, with mound of stone alongside. The tie to this corner was made direct from Cor. No. 1, Hope No. 3 lode. The closing corner for sections 10 x 15 on the range line between T's 1 N., R's 15 and 15½ E. is not in, and I established the point for this corner N. 89°-58'E. 24 links from the witness corner set for it, which is a quartzite stone showing 5 x 8 x 6 ins. out of the ground, chiseled W.C. on northeast face and 15½ E. on southeast face with mound of stone alongside. I computed the tie to this corner through a traverse run N. 04°-00'W. 986.9 ft. from Cor. No. 1 of the Hope lode to the witness corner; thence N. 89°-58'E. 15.84 ft. (24 links) to the corner point.

Sur. 434, Big ^{Jonny} Johnnie lode.

Cors. II and III of this claim were 4 x 4 pine posts properly set and marked, but which are now replaced by the iron pipe and concrete monuments as reported herein. The disagreement between these notes and line II-III as approved is due to error in Sur. 434.

Sur. 433, O'Dougherty lode.

Cors. II and III of this claim were 4 x 4 pine posts properly set and marked, but which are now replaced by the iron pipe and concrete monuments as reported herein. The disagreement between these notes and line II-III as approved is due to error in Sur. 433.

Sur. 3659, Speck, Uno, Dick and Claud lodes:

All of the corners of these claims marking lines that coincide with, or conflict with, lines of this survey are stones, properly set and marked, with mounds of stone alongside. There is a nominal disagreement between bearing of line 1-2, and the

bearing and length of line 4-1 of said Speck lode, as reported herein and these lines as approved. And there is a nominal disagreement between the tie from Cor. No. 1 of said Speck lode to the quarter corner between sections 10 and 15, T. 1 N., R. 15½ E as approved and this tie as computed through the lines of this survey.

I find the bearing of line 3-4 and the bearing and length of line 2-3 of said Uno lode correct as approved. I find the bearing of line 3-4 of said Claud lode correct as approved.

Sur. 2302, Rooster lode;

Cors. 1, 2 and 3 are 4x4 posts, properly set and scribed. The disagreement between these notes and the bearings of lines 1-2 and 2-3 of said Rooster lode as approved is due to errors in Sur. 2302.

Sur. 3233, Search Me, Side Hill and Cora May lodes.

All the corners of these claims, marking lines that coincide with, or conflict with, lines of this survey are 4 x 4 pine posts properly set and scribed. There is a nominal disagreement between line 1-2 of said Search Me lode as reported herein and this line as approved. I find the bearing of lines 3-4 and 4-1 of said Side Hill lode correct as approved, but there is a nominal disagreement between the length of line 3-4 of said Side Hill lode as reported herein and this line as approved. There is a nominal disagreement between the bearing of line 1-2, Cora May lode as approved and this line as reported herein. And, there is a nominal disagreement between the ties from Cor. 1 of said Side Hill and Cora May lodes as approved and these ties as computed through the lines of this survey. And there is a nominal disagreement between the length of the west half of the section line between sections 10 and 15 T. 1 N., R. 15½ E., as reported herein and this line as reported in Sur. 3233.

Sur. 3791, Oneida No. 1 and Oneida No. 2, ^{lodes} /unapproved:

Cors. 1 and 2 of said Oneida No. 1 lode and Cors. 1

and 4 of said Oneida No. 2 lode are iron pipes in concrete bases properly set and ^{marked} scribed.

Tie is not given to the corner of sections 12 and 13 T. 1 N., R. 16 E., from Cor. No. 1 of the Hope lode on account of this corner having been destroyed.

The disagreement between these notes and the location notices is due to errors in the notices.

Edwin P. Stewart.

United States Mineral Surveyor.

Globe, Arizona.
November 8th, 1921.

FINAL OATHS FOR SURVEYS.

LIST OF NAMES.

A list of the names of the individuals employed by Edwin T. Stewart

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

IRON CAP COPPER COMPANY

known as the Hope, Hope No. 2, Hope No. 3, Merrick and Dorr lodes and showing the respective capacities in which they acted.

Rudolph Wolf, Chainman.
 _____, Chainman.
 _____, Axman.
 _____, Flagman.

FINAL OATHS OF ASSISTANTS.

We, _____

and I, Rudolph Wolf, do solemnly swear that we assisted

Edwin T. Stewart, United States Mineral Surveyor, in marking the corners and surveying the boundaries of the mining claim of Iron Cap Copper Company

known as the Hope, Hope No. 2, Hope No. 3, Merrick and Dorr 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 instructions furnished by the United States Surveyor-General for Arizona.

Rudolph Wolf, Chainman.
 _____, Chainman.
 _____, Axman.
 _____, Flagman.

Subscribed and sworn to by the above-named persons before me this 8th

day of November, 1921.

My commission expires November 12, 1924. M. L. Harrison

Notary Public, Gila
County, Arizona.

4-686.

FINAL OATH OF U. S. MINERAL SURVEYOR.

I, Edwin T. Stewart, U. S. Mineral Surveyor,
do solemnly swear that, in pursuance of instructions received from the United States
Surveyor General for Arizona, dated
August 15, 1921, 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 Iron Cap Copper Company
....., known as the
Hope, Hope No. 2, Hope No. 3, Merrick and Dorr lodes,
situate in Globe Mining District,
Gila County, Arizona, in Section s
10 and 15, Township No. 1 N., Range No. 15 1/2 E., G. & S.R.M.,
and designated as Survey No. 3801, 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 per-
petuated in strict accordance with the law, official regulations and instructions there-
under; 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.

Edwin T. Stewart
U. S. Mineral Surveyor.

Subscribed and sworn to by the said Edwin T. Stewart,
U. S. Mineral Surveyor, before me a Notary Public,
..... this 8th
day of November, 19 21.
My commission expires
November 12, 1924.

M. L. Harrison
Notary Public, Gila
County, Arizona.

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

DEPARTMENT OF THE INTERIOR,
OFFICE OF U. S. SURVEYOR GENERAL,

Phoenix, Arizona,

January 23, 1922.

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

IRON CAP COPPER COMPANY
known as the HOPE, HOPE NO. 2, HOPE NO. 3, MERRICK and
DORR Lodes, situate in GLOBE,
Mining District, GILA County,
ARIZONA, in Sections 10 and 15, Township No. 1 N.

Range No. 15 1/2 E., and designated as Survey
No. 3801, 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 ^{or for each of} said mining claims by claimant or its grantors, and
that said improvements consist of 3 shafts, 4 tunnels and 6 cuts, total
value \$5720, also 5/26 of the value of a common improvement on
the Iron Cap lode, Sur. No. 2430, total value \$39,258.45.

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

January 23, 1922

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

IRON CAP COPPER COMPANY

, known as the

HOPE, HOPE NO. 2, HOPE NO. 3, MERRICK and DORR Lodes

situate in GLOBE mining district,

GILA County, ARIZONA

in Sections 10 and 15, Township No. 1 N., Range No. 15 E.

designated as Survey No. 3801,

executed by EDWIN T. STEWART, U. S. Mineral

Surveyor, October 19, 1921, under my instructions dated

August 15, 1921, 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.

[Handwritten signature]

U. S. Surveyor General for Arizona