

4-683.

MINERAL SURVEY No. 2702

LOT No.

ARIZONA

Land District.

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Live Oak Copper Mining and Smelting Company.

KNOWN AS THE

Live Oak, Sulphide, Copper Spring, Evening Star and Finis

Globe Mining District,

Gila County, Arizona, approximately in

Section 26, Township 1 N., Range 14 E.

Surveyed under instructions dated July 20, 1909.

by Edwin D. Stewart

U. S. Deputy Mineral Surveyor.

Claim located See location notices, 19

Survey commenced July 23, 1909

Survey completed August 18, 1909

6-822

Claimant's Attorney's Address:

S. E. Hazzard,
Bisbee,
Arizona.

Feet

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Mineral Survey No. 2702.

Finis Lode.

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

A pine post 4.5 ft. long, 4 ins. sq., with nail driven at the exact corner, set 18 ins. in the ground, with mound of stone, scribed 1-F-2702.

On line 3-4, Sulphide lode, this survey.

The Cor. of Sec. 25, 36, 30 and 31, T. 1 N., Rs. 14 and 15 E., G. & S.R.B. & M. bears S. 64°-45'30" E. 8200.8 ft.

Thence N. 82° 01' W.

90.84 Intersect line 2-3; Copper Hill lode, Sur. No. 2565, at S. 49° 36' E. 433.64 ft. from Cor. No. 3.

394.96 Intersect line 2-3, Sulphide lode and line 4-1, Live Oak lode; both of this Survey, at S. 10° 19' W. 13.48 ft. from Cors. 3 and 4 respectively.

993.64 Intersect line 2-3, Live Oak lode, this Survey and line 4-1, Live Oak No. 3. lode, Sur. No. 2684 at S. 09° 28' W. 33.91 ft. from Cors. 3 and 4, respectively.

1239.33 To Cor. No. 2, identical with the S.W. Cor. of the location.

A pine post 4 ft. long, 4 ins. sq., with nail driven at the exact corner, set 18 ins. in the ground, with mound of stone, scribed 2 - F - 2702.

Thence N. 55° 03' W.

50.00 To West end center, identical with monument of the location.

A pine post 4 ft. long, 4 ins. sq., with nail driven at the exact point, set 18 ins. in the ground, with mound of stone, scribed W.E.C. - F - 2702.

1000.00 To Cor. No. 3, identical with N.W. Cor. of the location, and S.W. Cor., Red Rock lode, unsurveyed.

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A pine post, 4.5 ft. long, 4 ins. sq., with nail driven at the exact corner, set 18 ins. in the ground, with mound of stone, scribed 3-F-2702.

On east side line Philadelphia lode, unsurveyed.

S.E. Cor. Red Rock lode, unsurveyed bears N. 85° 52'E.

891.5 ft.

Cor. No. 4, Live Oak No. 3 lode, Sur. No. 2684, brs. S. 85° 04'E. 335.90 ft.

Thence N. 74° 22'E.

487.8 To Cor. No. 4, identical with monument of the location, and S.W. end center, Red Mountain lode, Sur. No. 2565.

A pine post, 4.5 ft. long, 4 ins. sq., with nail driven at the exact corner, set 18 ins. in the ground, with mound of stone, scribed S.W.E.C.-R.M.-2565 and 4-F-2702.

Thence S. 80° 53'E.

Along line 3-2, Red Mountain lode, Sur. No. 2565.

424.80 To Cor. No. 5, identical with N.E. Cor. of the location, Cor. No. 2, Red Mountain lode and Cor. No. 3, Copper Hill lode, both of Sur. No. 2565, and S.E. Cor. Red Rock lode, unsurveyed.

A pine post, 4 ft. long, 4 ins. sq.; with nail driven at the exact corner, set 18 ins. in the ground, with mound of stone, scribed 2-R.M., 3-C.H.-2565 and 5-F-2702.

Thence S. 55° 03'E.

256.32 To East end center, identical with monument of the location.

A pine post 4.5 ft. long, 4 ins. sq., with nail driven at the exact point, set 18 ins. in the ground, with mound of stone, scribed E.E.C.-F-2702.

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

Live Oak Lode.

Beginning at Cor. No.1, identical with S.E.Cor. of the location, Cor.No.2, Sulphide lode, this survey, Cor. No.3, Copper Queen lode, Sur. No. 2686 and Cor. No.4, Copper King lode, Sur.№2530.

A pine post, 4 ft. long, 4 ins. sq., with nail driven at the exact corner, set 18 ins. in the ground, with mound of stone, scribed 4-2530-C.K., 3-C.Q.-2686, 2-S and 1-L.O.-2702.

The Cor. of Sec. 25, 36, 30 and 31, T, 1 N., Rs. 14 and 15 E., G.&S.R.B.& M. bears S.75° 29' 10"E.8341.0ft.

Thence N.80° 04'W.

Along line 4-3, Copper King lode, Sur.№2530.

300.00 To South end center, identical with monument of the location and north end center of the Copper King lode, Sur. No. 2530.

A pine post 4.5 ft. long, 4 ins. sq., with nail driven at the exact point, set 18 ins. in the ground, with mound of stone, scribed N.E.C.-C.K.-2530 and S.E.C.-L.O.-2702.

576.60 To Cor. No. 2, identical with S.W.Cor. of the location, Cor. No. 3, Copper King lode, Sur. 2530, Cors. 4 and 1, respectively of Live Oak No. 2 and Live Oak No.3 lodes, Sur.№2684.

A pine post 4 ft. long, 4 ins. sq., with nail driven at the exact corner, set 18 ins. in the ground, with mound of stone, scribed 3-2530-C.K., 4-2684-L.O.2, 1-2684-L.O.3 and L.O.-2-2702.

Thence N.09° 28'E.

Along line 1-4, Live Oak No. 3 lode, Sur.№2684.

1376.70 Cross road, course N.W.

1465.49 Intersect line 1-2, Finis lode, this survey, S.82° 01'E.

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- 245.69 ft. from Cor. No. 2 and N.82° 01'W. 993.64 ft. from Cor. No.1.
- 1497.32 To Witness Cor. for Cor. No. 3, identical with witness corner for Cor. No. 4, Live Oak No. 3 lode, Sur.№2684. A redwood post 4 ins. sq., showing 2.0 ft. out of the ground, scribed 4-2684-L.O.No.3. True Cor. 2.08 N., to which I add W.C.-3-L.O.-2702.
- 1499.40 To Cor. No. 3, identical with N.W.Cor. of the location and Cor. No. 4, Live Oak No. 3, lode, Sur.№2684. A pine plug driven in a drill hole in a conglomerate boulder, with nail at the exact corner. This corner not set on account of falling on boulder, where it is impracticable to do so. Witness Cor. bears S. 09° 28'W. 2.08 ft. Thence S.80° 04'E.
- 298.70 To North end center, identical with monument of the location. A pine post 4 ft. long, 4 ins. sq., with nail driven at the exact point, set 18 ins. in the ground, with mound of stone, scribed N.E.C.-L.O.-2702.
- 598.70 To Cor. No.4, identical with N.E.Cor. of the location, and Cor. No. 3, Sulphide lode, this survey. A pine post 4.5 ft. long, 4 ins. sq., with nail driven at the exact corner, set 18 ins. in the ground, with mound of stone, scribed 4-L.O., 3-S-2702. Thence S.10° 19'W. Along line 3-2, Sulphide lode, this survey.
- 13.48 Intersect line 1-2, Finis lode, this survey, at N.82° 01'W. 394.96 ft. from Cor. No.1 and S.82° 01'E. 598.68 ft. from the intersection of line 2-3, this claim with line 1-2, of said Finis lode.
- 236.00 Cross road, course S.W.
- 573.00 Cross road, course N.W.

1499.30 To Cor. No.1, the place of beginning.

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Sulphide Lode.

Beginning at Cor. No.1, identical with S.E.Cor. of the location, Cor. No.2, Copper Spring lode, this survey, and Cors. 3 and 4 respectively of the Fulton and Copper Queen lodes, Sur.№2686.

A pine post 4.5 ft. long, 4 ins. sq., with nail driven at the exact corner, set 18 ins. in the ground, with mound of stone, scribed 4-C.Q., 3-F-2686, 1-S. and 2-C.S.-2702.

The Cor. of Sec. 25, 36, 30 and 31, T. 1 N., Rs. 14 and 15 E., G.&S.R.B.&M. bears S.75° 08' 00" E.. 7743.0 ft.

Thence N.80° 04'W.

Along line 4-3, Copper Queen lode, Sur.№2686,

52.00 Cross road, course N.W.

300.00 To south end center, identical with the monument of the location and north end center of the Copper Queen lode, Sur.№2686.

A pine post, 4.5 ft. long, 4 ins. sq., with nail driven at the exact point, set 18 ins. in the ground, with mound of stone, scribed N.E.C.-C.Q.-2686 and S.E.C.-S-2702.

600.00 To Cor. No. 2, identical with S.W.Cor. of the location, Cor. No. 3, Copper Queen lode, Sur.№2686, Cor. No. 4, Copper King Lode, Sur. No. 2530 and Cor. No.1, Live Oak lode, this survey.

Corner previously described.

Thence N.10° 19'E.

Along line 1-4, Live Oak lode, this survey.

1485.82 Intersect line 1-2, Finis lode, this Survey, at N.82° 01'W.

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- 394.96 ft. from Cor. No.1..
- 1499.30 To Cor. No. 3, identical with N.W.Cor. of the location,  
and Cor. No. 4, Live Oak, lode, this survey.  
Corner previously described.
- Thence S.80° 04'E.
- 298.58 Intersect line 2-3, Copper Hill lode, Sur.№2565 at N.  
49° 36'W. 153.07 ft. from Cor. No. 2, and N.49° 36'W.  
6.11 ft. from the intersection of line 1-2 Finis  
lode, this survey, with line 2-3, Copper Hill lode,  
Sur.№2565.
- 300.00 To north end center, identical with monument of the  
location.  
A pine post 4.5 ft. long 4 ins. sq., with nail driven  
at the exact point, set 18 ins. in the ground, with  
mound of stone, scribed N.E.C.-S-2702.
- 394.64 To Cor. No.1, Finis lode, this survey, whence the inter-  
section of line 1-2, said Finis lode with line 2-3,  
Copper Hill lode, Sur.№2565, bears N. 82° 01'W.90.84  
ft.
- 520.64 Intersect lines 1-2 and 3-4, Copper Hill and Last Chance  
lodes, respectively, both of Sur.№2565 at N. 59° 12'E.  
118.93 ft. from Cors. 2 and 3.
- 600.00 To Cor. No. 4, identical with N.E.Cor. of the location,  
and Cor. No. 3, Copper Spring lode, this survey.  
A pine post 4.5 ft. long, 4 ins. sq., with nail driven  
at the exact corner, set 18 ins. in the ground, with  
mound of stone, scribed 4-S. and 3-C.S.-2702..  
Thence S.10° 19'W.  
Along line 3-2, Copper Spring lode, this survey.
- 304.87 Intersect line 2-3, Last Chance lode, Sur. 2565, at  
S. 26° 27'E. 282.28 ft. from Cor. No.3.
- 1499.30 To Cor.No.1, the place of beginning.

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## Copper Spring Lode.

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

A pine post 4.5 ft. long, 4 ins. sq. with nail driven at the exact corner, set 18 ins. in the ground, with mound of stone, scribed 1-C.S.-2702.

The Cor. of Sec. 25, 36, 30 and 31, T. 1 N., Rs. 14 and 15 E., G.&S.R.B. & M. bears S.74° 43'10"E. 7145.4ft.

Thence N.80° 04'W.

157.00 Cross road, course west.

220.76 To Cor. No. 4, Fulton lode, Sur. No. 2686, and intersect line 3-4, Evening Star lode, this survey, at S.39° 16' W. 456.05 ft. from Cor. No. 4.

Along line 4-3, Fulton lode, Sur. No. 2686.

300.00 To south end center, identical with monument of the location.

A pine post 4 ft. long, 4 ins. sq., with nail driven at the exact point, set 18 ins. in the ground, with mound of stone, scribed S.E.C.-C.S.-2702.

404.00 Cross road, course southwest.

600.00 To Cor. No. 2, identical with S.W. Cor. of the location, Cors. 3 and 4, respectively, of Fulton and Copper Queen lodes, Sur. No. 2686 and Cor. No. 1, Sulphide lode, this survey.

Corner previously described.

Thence N.10° 19'E.

Along line 1-4, Sulphide lode, this survey.

1194.43 Intersect line 2-3, Last Chance lode, Sur. No. 2565, at N. 26° 27' W. 319.32 ft. from Cor. No. 2.

1499.30 To Cor. No. 3, identical with the N.W. Cor. of the location, and Cor. No. 4, Sulphide lode, this survey.

Corner previously described.



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Thence S. 80° 04'E.

- 300.00 To north end center, identical with monument of the location.  
A pine post 4.5 ft. long, 4 ins. sq., with nail driven at the exact point, set 18 ins. in the ground, with mound of stone, scribed N.E.C.-C.S.-2702.
- 513.08 Intersect line 3-4, Sixteen to One lode, Sur. N<sup>o</sup>2565, at N. 31° 14'E. 454.31 ft. from Cor. No. 3.
- 600.00 To Cor. No. 4, identical with N.E. Cor. of the location.  
A pine post 4.5 ft. long, 4 ins. sq., with nail driven at the exact corner, set 18 ins. in the ground, with mound of stone, scribed 4-C.S.-2702.
- Thence S. 10° 19'W.
- 207.82 Intersect line 1-2, Last Chance Lode, Sur. N<sup>o</sup>2565, at N. 59° 12' E. 542.69 ft. from Cor. No. 2 and N. 59° 12'E. 330.90 ft. from Cor. No. 3, Sixteen to One Lode, Sur. N<sup>o</sup> 2565.
- 460.90 Intersect lines 2-3, Sixteen to One and 3-4, Wedge Lodes, both of Sur. N<sup>o</sup>2565, at S. 71° 35'E. 251.81 ft. from Cor. No. 3 of said Sixteen to One Lode and 173.71 ft. from Cor. No. 3, of said Wedge lode.
- 850.00 Cross road, course northwest.
- 1017.29 Intersect lines 1-2, Wedge and 4-5, Blue Copper Lodes, both of Sur. N<sup>o</sup>2565, at S. 71° 29'E. 14.69 ft. from Cors. 2 and 4, respectively, of said Wedge and Blue Copper lodes. From Cor. No. 2, Wedge lode, Cor. No. 3 of said Wedge lode bears N. 04° 54'W. 599.8 ft.
- 1068.69 Intersect line 3-4, Blue Copper lode, Sur. N<sup>o</sup>2565, at S. 04° 54'E. 55.4 ft. from Cor. 4.
- 1101.71 To Cor. No. 4, Evening Star lode, this survey.
- 1499.30 To Cor. No. 1, the place of beginning.

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## Evening Star Lode.

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

A pine post 4 ft. long, 4 ins. sq., with nail driven at the exact corner, set 18 ins. in the ground, with mound of stone, scribed 1-E.S.-2702.

The Cor. of Sec. 25, 36, 30 and 31, T. 1 N., Rs. 14 and 15 E., G.&S.R.B.&M, bears S.73° 28' 00"E. 5705.9 ft.

Thence S.39° 16'W.

202.56 Intersect line 1-2, Blue Copper lode, Sur. N°2565, at S.62° 15'E. 350.6 ft. from Cor. No. 2.

300.00 To S.E. end center, identical with point where S.E. end center was set (Monument having been destroyed)

A pine post 4.5 ft. long, 4 ins. sq., with nail driven at the exact point, set 18 ins. in the ground, scribed S.E.E.-E.S.-2702.

600.00 To Cor. No. 2, identical with point where S.E. corner of the location was set (Monument having been destroyed)

A pine post, 4.5 ft. long, 4 ins. sq., with nail driven at the exact corner, set 18 ins. in the ground, scribed 2-E.S.-2702.

Thence N.64° 18'W,

341.16 Intersect line 5-1, Fulton lode, Sur. No. 2686, at S. 09° 52'W. 94.57 ft. from Cor. No. 5.

1238.00 Cross road, course north.

1500.00 To Cor. No. 3, identical with S.W. Cor. of the location.

A pine post, 4 ft. long, 4 ins. sq., with nail driven at the exact corner, set 18 ins. in the ground, with mound of stone, scribed 3-E.S.-2702.

Thence N.39° 16'E.

143.95 To Cor. No. 4, Fulton Lode, Sur. N°2686 and intersect line 1-2, Copper Spring Lode, this survey; whence

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Cor. No. 5 of said Fulton lode bears S. 61° 45' E.  
1100.36 ft. and Cor. No. 1 of said Copper Spring lode  
bears S. 80° 04' E. 220.76 ft.

300.00 To N.W. end center, identical with monument of the  
location.

A pine post, 4.5 ft. long, 4 ins. sq., with nail driven  
at the exact point, set 18 ins. in the ground, with  
mound of stone, scribed N.W.E.C.-E.S.-2702.

600.00 To Cor. No. 4, identical with N.W. Cor. of the location.

A pine post, 4 ft. long, 4 ins. sq., with nail driven  
at the exact corner, set 18 ins. in the ground, with  
mound of stone, scribed 4-E.S.-2702.

On line 4-1, Copper Spring lode, this survey, N. 10°  
19' E. 397.59 ft. from Cor. NO. 1.

Thence S. 64° 18' E.

10.07 To Cor. No. 3, Blue Copper lode, Sur. 2565; whence Cor.  
No. 2, of said Blue Copper lode bears S. 54° 43' E.  
1107.5 ft.

175.00 Cross road, course northwest.

910.00 Cross road, course southwest.

1500.00 To Cor. No. 1, the place of beginning.

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Magnetic variation at all corners 13° 40' 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 extends as follows from their respective dis-  
covery points:

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Finis lode, N. 87° 05'W. 754.6 ft. and S. 87° 05'E.  
305.0 ft.

Live Oak lode, N. 10° 19'E. 619.8 ft. and S. 10° 19'  
W. 879.5 ft.

Sulphide lode, N. 10° 19'E. 681.0 ft. and S. 10° 19'W. 818.3 ft.

Copper Spring, N. 10° 19'E. 1042.0ft. and S. 10° 19'W. 457.3 ft.

Evening Star lode, N. 64° 18'W. 236.5 ft. and S. 64°  
18'E. 1263.5 ft.

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Areas.	Acres.
Total Area Finis lode . . . . .	4.947 ✓
Area in conflict with	
Live Oak No.3 lode, Sur. N <sup>o</sup> 2684 . . . . .	0.259 ✓
Red Rock lode, unsurveyed . . . . .	0.996 ✓
Copper Hill lode, Sur. N <sup>o</sup> 2565 . . . . .	0.242 ✓
Copper Hill lode, Sur. N <sup>o</sup> 2565 (exclu- sive of 0.003 acre, the common conflict between said Copper Hill lode, Sur. N <sup>o</sup> 2565, and the Finis and Sulphide lodes, this survey) . . . . .	0.239 ✓
Total Area Live Oak lode . . . . .	20.227 ✓
Area in conflict with	
Finis lode, this survey . . . . .	0.326 ✓
Total Area Sulphide lode . . . . .	20.651 ✓
Area in conflict with	
Finis lode, this survey . . . . .	0.061 ✓
Finis lode, this survey (exclusive of 0.003 acre, the common conflict between the Copper Hill lode, Sur. N <sup>o</sup> 2565 and the Finis and Sulphide lodes, this survey.) . . . . .	0.058 ✓
Copper Hill lode, Sur. N <sup>o</sup> 2565 . . . . .	0.197 ✓
Copper Hill lode, Sur. N <sup>o</sup> 2565 (exclu- sive of 0.003 acre, the common conflict between said Copper Hill lode, Sur. N <sup>o</sup> 2565 and the Finis and Sulphide lodes, this survey) . . . . .	0.194 ✓
Last Chance lode, Sur. N <sup>o</sup> 2565 . . . . .	0.662 ✓
Total Area Copper Spring lode . . . . .	20.651 ✓
Area in conflict with	
Last Chance lode, Sur. N <sup>o</sup> 2565 . . . . .	5.514 ✓
Last Chance lode, Sur. N <sup>o</sup> 2565 (exclu- sive of 1.017 acres, the common conflict between said Last Chanee lode and the Sixteen to One lode, both of Sur. N <sup>o</sup> 2565 and the Copper Spring lode, this survey) . . . . .	4.497 ✓
Sixteen to One lode, Sur. N <sup>o</sup> 2565 . . . . .	1.742 ✓
Sixteen to One lode, -Sur. N <sup>o</sup> 2565, (exclusive of 1.017 acres, the common conflict between said Sixteen to One lode and the Last	

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Chance lode, both of Sur. No. 2565, and the Copper Spring lode, this survey) 9.725 ✓  
 Tract A, hereinafter described. 2.875 ✓  
 Tract A, (exclusive of 0.941 acre, the conflict between Tract A, and the Sixteen to One lode, Sur. No. 2565.) 1.934 ✓  
 Wedge lode, Sur. No. 2565 . . . . . 1.191 ✓  
 Blue Copper Lode, Sur. No. 2565 . . . . . 0.009 ✓  
 Tract B, hereinafter described 0.465 ✓  
 Total Area Evening Star Lode . . . . . 20.085 ✓  
 Area in conflict with  
 Copper Spring lode, this survey. 1.007 ✓  
 Blue Copper Lode, Sur. No. 2565 . . . . . 3.952 ✓  
 Fulton lode, Sur. No. 2686 . . . . . 2.995 ✓

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Tract A.

Beginning at Cor. No. 3, Copper Spring lode, this survey.

Thence S. 80° 04'E.

Along line 3-4, Copper Spring lode, this survey.

513.08 Intersect line 3-4, Sixteen to One lode, Sur. No. 2565, at N. 31° 14'E. 454.31 ft. from Cor. No. 3.

600.00 To Cor. No. 4, Copper Spring lode, this survey.

Thence S. 10° 19'W.

Along line 4-1, Copper Spring lode, this survey.

207.82 Intersect line 1-2, Last Chance lode, Sur. No. 2565.

Thence S. 59° 12'W.

Along line 1-2, Last Chance lode, Sur. No. 2565.

212.49 To a point.

Thence N. 44° 23'W.

59.33 Intersect line 3-4, Sixteen to One lode, Sur. No. 2565, at N. 31° 14'E. 118.83 ft. from Cor. No. 3.

355.16 To a point, marked by a pine post 4 ft. long, 4 ins.

sq., with nail driven at the exact point, set 18 ins. in the ground, with mound of stone, scribed Sur. 2565 on N.W. side, to which I add, on the S.E. side, Sur. 2702.

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Thence N. 37° 00' W.

204.07 To the place of beginning, containing 2.875 acres.

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Tract B.

Beginning at the intersection of line 2-3, Sixteen to One Lode, Sur. N. 2565, with line 4-1, Copper Spring lode, this survey, being S. 71° 35' E, 251.81 ft. from Cor. No. 3 of said Sixteen to One lode and S. 10° 19' W. 460.9 ft. from Cor. No. 4 of said Copper Spring lode.

Thence N. 44° 23' W.

196.15 To a point on line 1-2, Last Chance lode, Sur. N. 2565.

Thence N. 59° 12' E.

Along line 2-1, Last Chance lode, Sur. N. 2565.

212.49 To a point on line 4-1, Copper Spring lode, this survey.

Thence S. 10° 19' W.

Along line 4-1, Copper Spring lode, this survey.

253.08 To the place of beginning, containing an area of 0.465A.

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Location.

This survey is located approximately in Sec. 26, T.1 N., R. 14, E., G. & S. R. B. & M., unsurveyed, Globe Mining District, Gila County, Arizona, in the Crook National Forest.

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Adjoining and Conflicting Claims.

On the north: The Red Rock lode, unsurveyed, J.B. Newman, claimant; the Red Mountain, Copper Hill and Last Chance lodes, Survey No. 2565, the Keystone Copper Co., claimants.

On the east: The Sixteen to One, Wedge and Blue Copper lodes, Sur. N<sup>o</sup> 2565, the Keystone Copper Company, claimants, and San Antonio lode, unsurveyed, J.S. Hays et al. claimants.

On the south: The Fulton and Copper Queen lodes, Sur. N<sup>o</sup> 2686, and the Copper King lode, Sur. N<sup>o</sup> 2530, the Live Oak Copper Mining & Smelting Company, claimants.

On the west: the Live Oak No. 3 lode, Sur. N<sup>o</sup> 2684, the Live Oak Copper Mining & Smelting Company, claimants, and the Philadelphia lode, unsurveyed, J.B. Newman, claimant.

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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:

Common Improvements.

No. 2 on the Sulphide lode, a vertical shaft, 6 X 10 X 292 ft. deep, the N.W. cor. of which bears S. 45° 42' W. 295.5 ft. from the north end center. Value \$7000.00.

No. 2 on the Live Oak lode, an incline shaft 5 X 10 X 150 ft. deep, dip S. 80° 29'E., 35° 20', the center of the N.W. side of which bears N. 70° 48'E. 211.5 ft. from a point on the lode line, S. 10° 19' W. 627.2 ft. from the north end center. Value \$3500.00

191 ft. from the collar of improvement No. 2 on the Sulphide lode, the second level of the common improvement consisting of 1002.8 ft. of drifting and cross-cutting, of an average cross section of 4.5 X 6.5 ft. which is particularly described as follows: Commencing at the shaft: thence S. 65° 41'E. 35.5 ft. to Pt. 1; thence S. 43° 22'E. 18.3 ft. to Pt. 2; thence S. 16° 49' E. 27.4 ft. to Pt. 3; thence S. 50° 19' W. 82.5 ft. to Pt. 4; thence S. 43° 11' W. 24.0 ft. to Pt. 5; thence S. 28° 40' W. 79.6 ft. to Pt. 6; thence S. 34° 31' W. 45.1 ft. to Pt. 7; thence S. 31° 19' W. 41.7 ft. to Pt. 8;

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thence S. 34° 11' W. 33.9 ft. to Pt. 9; thence S. 66° 02' W. 36.7 ft. to Pt. 10; thence S. 33° 12' W. 35.0 ft. to Pt. 11; thence S. 24° 25' W. 57.8 ft. to Pt. 12; thence S. 36° 06' W. 77.8 ft. to Pt. 13; thence S. 24° 10' W. 14.8 ft. to Pt. 14; thence N. 47° 23' W. 37.5 ft. to Pt. 15; thence N. 71° 01' W. 46.4 ft. to face. Commencing at Pt. 8 above, a crosscut extends N. 82° 07' W. 65 ft. and connects with the incline shaft, improvement No. 2 on the Live Oak lode. Commencing again at the Shaft; thence N. 77° 31' W. 14.7 ft. to Pt. 16; thence S. 68° 04' W. 23.3 ft. to Pt. 17; thence S. 20° 20' W. 22.6 ft. to Pt. 18; thence N. 81° 26' W. 23.3 ft. to Pt. 19; thence N. 86° 39' W. 14.0 ft. to face. Commencing at Pt. 18, a drift extends S. 20° 29' W. 26 ft. to face. Commencing at Pt. 16, a crosscut extends N. 66° 54' W. 54.5 ft. to Pt. 20; thence N. 68° 26' W. 66 ft. to face. Value of second level \$9378.00

65 ft. (inclined measurement) from the collar of improvement No. 2 on the Live Oak lode, the first level of the common improvement, consisting of 341.5 ft. of drifting, of an average cross section of 4.5 x 6.5 ft. together with 75 ft. of winze, is particularly described as follows: Commencing at the shaft; thence N. 02° 40' E. 30.3 ft. to Pt. 1; thence N. 86° 10' E. 38.6 ft. to Pt. 2; thence N. 45° 40' E. 21.6 ft. to Pt. 3; thence N. 17° 12' E. 79.1 ft. to Pt. 4; thence N. 25° 04' E. 43.9 ft. to Pt. 5; thence N. 05° 51' W. 31.4 ft. to Pt. 6; thence N. 27° 24' E. 23.8 ft. to Pt. 7; thence N. 01° 54' E. 23.3 ft. to Pt. 8; thence N. 15° 14' E. 19.8 ft. to Pt. 9; thence N. 04° 53' E. 29.7 ft. to face. Commencing at Pt. 8, a winze 4 x 6 ft. dip 35° 20', S. 75° 48' E., 75 ft. deep, extends and connects at the end of the cross cut on the second level, which is described as being N. 86° 39' W. 14 ft. from Pt. 19 of the second level. Value of drifting and winze \$4165.00

Improvement No. 3 of the Live Oak lode, 1035.0 ft. of tunnel and laterals of an average cross section of 4.5 x 6.5 ft. from same, the portal of which bears S. 23° 47' W. 506.4 ft. from Cor. No. 4, of said Live Oak lode, and extends thence N. 25° 44' E. 25.0 ft. to Pt. 1; thence N. 01° 48' E. 22.8 ft. to Pt. 2; thence N. 39° 21' E. 20.9 ft. to Pt. 3; thence N. 09° 46' E. 47.9 ft. to Pt. 4; thence N. 39° 48' E. 25.3 ft. to Pt. 5; thence N. 22° 11' E. 67.4 ft. to Pt. 6; thence N. 20° 26' E. 57.4 ft. to Pt. 7; thence N. 22° 36' E. 65.0 ft. to Pt. 8; thence N. 20° 06' E. 30.8 ft. to Pt. 9; thence N. 23° 56' E. 31.5 ft. to Pt. 10; thence N. 07° 54' E. 97.0 ft. to Pt. 11; thence N. 00° 01' E. 30.6 ft. to Pt. 12; thence N. 26° 22' E. 41.5 ft. to Pt. 13; thence N. 33° 35' E. 31.9 ft. to Pt. 14; thence N. 28° 36' E. 67.2 ft. to Pt. 15; thence N. 35° 39' E. 33.4 ft. to Pt. 16; thence N. 40° 14' E. 49.0 ft. to face. The last 52 ft. of this tunnel is not credited to this survey for the reason that it is not on ground owned by the claimant, being within the boundary of the Copper Hill lode, Sur. No. 2565. Commencing at Pt. 4, a winze, 5 x 8, dip 18° 05', S. 75° 38' E. 106.4 ft. deep, extends and connects with the first level of the common improvement at Pt. 4. Commencing at Pt. 9, a lateral extends S. 89° 51' E. 28.0 ft. to Pt. 17; thence



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S. 74° 26' E. 44.7 ft. to Pt. 18; thence S. 43° 43' E. 14.0 ft. to Pt. 19; thence S. 27° 29' W. 15.7 ft. to Pt. 20; thence S. 30° 41' E. 12 ft. to face. Commencing at Pt. 14 a lateral extends N. 59° 20' W. 47.3 ft. to Pt. 21; thence S. 17° 47' W. 24.7 ft. to Pt. 22; thence S. 50° 58' W. 26.4 ft. to Pt. 23; thence N. 31° 12' W. 23.1 ft. to face; Value of tunnel and laterals \$10350.

Improvement No. 2 of the Copper Spring lode, 1257.5 ft. of tunnel, of an average cross section of 4.3 x 6.5 ft. the portal of which bears N. 40° 33' W. 229.9 ft. from the south end center of said Copper Spring lode, and extends thence N. 30° 57' W. 73.7 ft. to Pt. No. 1; thence N. 19° 39' W. 27.3 ft. to Pt. No. 2; thence N. 09° 40' W. 72.7 ft. to Pt. No. 3; thence N. 07° 48' W. 85.5 ft. to Pt. No. 4; thence N. 13° 05' W. 60.7 ft. to Pt. 5; thence N. 17° 16' W. 73.6 ft. to Pt. 6; thence N. 19° 58' W. 200.2 ft. to Pt. 7; thence N. 18° 39' W. 106.5 ft. to Pt. 8; thence N. 16° 28' W. 58.9 ft. to Pt. 9; thence N. 18° 03' W. 117.2 ft. to Pt. 10; thence N. 18° 16' W. 64.2 ft. to Pt. 11; thence N. 18° 17' W. 59.4 ft. to Pt. 12; thence N. 18° 45' W. 60.3 ft. to Pt. 13; thence N. 18° 46' W. 123.2 ft. to Pt. 14; thence N. 26° 58' W. 19.7 ft. to Pt. 15; thence N. 12° 30' W. 42.8 ft. to Pt. 16; thence N. 16° 53' W. 11.6 ft. connect with the vertical shaft, improvement No. 2 on the Sulphide lode. Value \$12575.00  
Total value of common improvement \$46968.00

All of the foregoing described improvements are connected up into one system of work of which the vertical shaft (improvements No. 2 of the Sulphide lode) and the incline shaft (improvement No. 2 of the Live Oak lode), is the basis, for the economical and advantageous working of the five claims embraced in this survey, as well as for the Fulton and Copper Queen lodes, of Sur. N° 2686 and the Copper King lode, Sur. N° 2530.

The general slope of the surface of the claims to which the value of this common improvement is distributed, is from the southeast to the northwest, the portal of the tunnel, designated as Improvement No. 2 on the Copper Spring lode, being but little above the lowest point on the surface of the claims. The latter improvement is included as a part of the system of common improvements for the reason that it is used as a haulage tunnel to and from the vertical shaft with which it connects at a depth of 270 ft. from the surface, thus permitting of a more economical and advantageous handling of the waste, ore, timbers, and other supplies into and out of the mine. The vertical shaft is now at a depth of 292 ft. and it being the plan of the claimant Co. to continue sinking to a greater depth and then through drifts and crosscuts from other levels toward and under the eight claims to which the value of this common improvement is distributed, develop and mine each of such claims, and, all of the other improvements heretofore described as being a common improvement, to-wit:

Improvement No. 2, the incline shaft, on the Live Oak lode and improvement No. 3, a tunnel on the Live Oak lode; the drifts and cross cuts on the second level;

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the drifts and winze on the first level and the improvement No. 2, a tunnel, on the Copper Spring lode, being connected up into one system of work, and the mining of a group of claims for one system of work being the plan generally carried out in this district, there is, therefore, distributed to each of the five claims in this group, as well as to the Fulton and Copper Queen lodes of Sur. No. 2686 and the Copper King lode, of survey No. 2530 a 1/8th of the total value of the improvements, amounting to \$5871.00 for each claim.

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Finis Lode.

A 1/8 of the common improvements hereinbefore described. Value \$5871.00.

No. 1, the discovery, shaft, 4 x 6 x 10 ft. the center of which is on the lode line N. 87° 05' W. 305.0 ft. from east end center. Value \$60.00

No. 2, 15 ft. of cut, 4 x 10 ft., the east end of which bears S. 35° 10' E. 76.1 ft. from a point on the lode line 384.5 ft. from the east end center, and extends thence N. 82° 30' W. to face. Value \$45.00

No. 3, shaft, 6 x 8 x 5 ft. the center of which bears N. 89° 12' E. 105.8 ft. from a point on the lode line 384.5 ft. from the east end center. Value \$40.00

No. 4, 20 ft. of cut, 5.5 x 11 ft., the west end of which bears N. 77° 20' E. 88.3 ft. from a point on the lode line 384.5 ft. from the east end center, and extends thence N. 60° E. to face. Value \$60.00.

No. 5, 32.5 ft. of cut and tunnel, 5 x 6 ft. the east end of which bears N. 53° 01' E. 71.1 ft. from a point on the lode line 384.5 ft. from the east end center, and extends thence N. 53° 30' W. to face. Value \$150.00.

No. 6, 19 ft. of cut, 4.5 x 13 ft. the east end of which bears N. 62° 38' E. 84.6 ft. from a point on the lode line 384.5 ft. from the east end center, and extends thence N. 25° 30' W. to face. Value \$50.00.

No. 7, 12.5 ft. of cut, 4 x 10 ft. the east end of which bears N. 40° 46' E. 103.8 ft. from a point on the lode line 384.5 ft. from the east end center, and extends thence S. 81° 30' W. to face, Value \$35.00.

No. 8, 16 ft. of cut, 4 x 11 ft. the west end of which bears N. 51° 54' E. 116.5 ft. from a point on the lode line 384.5 ft. from the east end center, and extends thence S. 81° 30' E. to face. Value \$45.00.

No. 9, 14.5 ft. of cut, 5 x 12 ft. the west end of which bears N. 55° 52' E. 103.8 ft. from a point on the lode line 384.5 ft. from the east end center, and extends thence S. 84° 30' E. to face. Value \$45.00.

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No. 10, 15 ft. of cut, 4 x 11 ft. the west end of which bears N. 62° 14'E. 88.9 ft. from a point on the lode line 384.5 ft. from the east end center, and extends thence N. 89° 30'E. to face. Value \$45.00.

No. 11, 17 ft. of cut, 4 x 11 ft. the west end of which bears N. 80° 30'E. 183.1 ft. from a point on the lode line 384.5 ft. from the east end center, and extends thence N. 29° E. to face. Value \$50.00.

No. 12, 23 ft. of cut and tunnel, 4 x 6 ft. the west end of which bears S. 86° 03'E. 348.0 ft. from Cor.No. 3, and extends thence N. 85° 00'E. 9.0 ft. thence S. 69° 30'E. 14 ft. to face. Value \$120.00.

#### Live Oak Lode.

A 1/8th of the common improvements, hereinbefore described. Value \$5871.00.

No.1, the discovery, 14 ft. of cut, 4 x 10 ft. the face of which is on the lode line 619.8 ft. from the north end center, and extends thence N. 66° 30'E. to mouth. Value \$40.00.

No. 2, incline shaft described under common improvements.

No. 3, tunnel, described under common improvements.

No. 4, 69 ft. of cut and tunnel, 5 x 6 ft., the mouth of which bears S. 44° 30'E. 67.5 ft. from a point on the lode line 627.2 ft. from the north end center, and extends thence S. 27°W. to face. Value \$450.00

1/2 of improvement No. 3 on the Sulphide lode, hereinafter described. Value \$1032.00.

#### Sulphide Lode.

A 1/8th of the common improvements hereinbefore described. Value \$5871.00.

No.1, the discovery, a surface stope, of an average depth of 20 ft. and an average width of 4 ft. by 89 ft. long, which is intersected by the lode line 681.0 ft. from the north end center and extends N. 76° 30'E. 64.0 ft. and S.76° 30'W. 25 ft. Value \$1500.00

No. 2, vertical shaft described under common improvements.

No. 3, 206.4 ft. of tunnel, 4 x 6 ft. the portal of which bears S. 04° 44'W. 767.6 ft. from Cor. No.3, and extends thence N. 88° 51'W. 97.9 ft.; thence N. 51° 50' W. 59.3 ft.; thence N.73° 35'E. 26.8 ft.; thence N.01° 38'W. 22.4 ft. to face. Value \$2064.00.

This tunnel commencing on the Sulphide lode and extending in a westerly direction into the Live Oak lode, and the slope of the surface of the claims in this group being such that such tunnel does not develop any claim in the group other than the Sulphide and Live Oak lodes, the value thereof, amounting to \$2064.00

is distributed equally to each claim. *Value of 1/2 interest*  
#1032.00

Copper Spring Lode.

A 1/8th of the common improvements, hereinbefore described. Value \$5871.00.

No. 1, the discovery, 14 ft. of cut, 4 x 10 ft. the face of which is on the lode line 1042 ft. from the north end center, and extends thence N.48° E. to mouth. Value \$35.00.

No. 2, tunnel, described under common improvements.

Evening Star Lode.

A 1/8th. of the common improvements hereinbefore described. Value \$5871.00.

No. 1, the discovery, 17 ft. of cut, 4 x 10 ft., the face of which is on the lode line S. 64° 18'E. 236.5 ft. from the northwest end center, and extends thence N.64° 18'W. to mouth. Value \$45.00.

No. 2, 26 ft. of cut, 5 x 10 ft., the southwest end of which bears S. 79° 16'E. 188.7 ft. from the north west end center, and extends thence N.60° 30'E. to face. Value \$80.00.

No. 3, 44 ft. of cut and tunnel, 4 x 6 ft. the west end of which bears N.88° 34'E. 225.6 ft. from the northwest end center, and extends thence S. 74° 30'E. to face. Value \$190.00.

No. 4, shaft, 4 x 6 x 8 ft., the center of which bears S. 32° 19'E. 298.0 ft. from the northwest end center. Value \$40.00.

No. 5, 19 ft. of cut, 4.5 x 8 ft., the mouth of which bears S. 59° 52'E. 534.1 ft. from Cor. No. 4, and extends thence S. 30° 30'W. to face. Value \$50.00.

No. 6, 20 ft. of cut, 6 x 4 ft., the mouth of which bears S. 57° 23'E. 571.4 ft. from Cor. No. 4, and extends thence N. 40° W. to face. Value \$35.00.

Other improvements.

A shaft house, 16 x 32 ft., the S.W. Cor. of which bears N. 64° 03'E. 151.8 ft. from a point on the lode line of the Live Oak lode, 627.2 ft. from the north end center. Course of long sides S.80° 29'E.

A bunk house, 20 x 40 ft. the S.W. Cor. of which bears N. 74° 02'E. 82.5 ft. from the south end center of the Copper Spring lode. Course of long sides S.60°E.

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Instrument.

This survey was made with a 6 1/4 inch Berger Engineer's transit. The courses were deflected from the true meridian as determined by direct solar and polaris

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observations. The distances were measured by a 650 ft. steel tape.

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Report.

The side and end lines of the several claims in this survey and all tie lines were run directly upon the ground.

The Cor. of Sec. 25, 36, 30 and 31, T. 1 N., Rs. 14 and 15 E., G.&S.R.B.&M., to which tie is given, is a schist boulder .4 x .7 x 1.3 ft. out of the ground, marked with one notch on the south end and five notches on the north end and 15 E. on the east side.

Sur. No. 2565, Red Mountain, Copper Hill, Last Chance, Sixteen to One, Wedge and Blue Copper lodes:

All of the corners are pine posts, properly set and scribed with the number and corner of the survey. I find all distances correct as approved.

Sur. No. 2684, Live Oak No. 2 and Live Oak No. 3 lodes:

Cor. No. 4 of the Live Oak No. 2 lode, which is identical with Cor. No. 1 of the Live Oak No. 3 lode and Cor. No. 3 of the Copper King lode, Sur. No. 2530, is a pine post properly set and scribed. Cor. No. 4 of the Live Oak No. 3 lode is marked by witness corner, properly set and scribed.

Sur. No. 2530, the Copper King lode:

All of the corners are pine posts, properly set and scribed with the number and corner of the survey. I find the course and distance of line 3-4 correct as approved.

Sur. No. 2686, Copper Queen and Fulton lodes:

All of the corners are pine posts, properly set and scribed with the number and corner of the survey.

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Red Rock lode, unsurveyed:

All the corners are pine posts, properly set.

The disagreement between these notes and the certificates of location is due to errors in the latter.

*Edwin J. Stewart*  
U.S.Min. Surveyor.

Globe, Arizona, August 20, 1909.

# 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 \_\_\_\_\_  
the Live Oak Copper Mining and Smelting Company  
 known as the Live Oak, Sulphide, Copper Spring, Evening Star and Finis \_\_\_\_\_  
 and showing the respective capacities in which they acted.

R. J. Smith \_\_\_\_\_, Chainman.  
 \_\_\_\_\_, Chainman.  
 \_\_\_\_\_, Axman.  
 \_\_\_\_\_, Flagman.

## FINAL OATHS OF ASSISTANTS.

We, I, R. A. Smith \_\_\_\_\_  
 and \_\_\_\_\_, do solemnly swear that <sup>I</sup>~~we~~ assisted Edwin  
T. Stewart \_\_\_\_\_, United States Mineral Surveyor, in marking the corners and surveying  
 the boundaries of the mining claim of the Live Oak Copper Mining and Smelting  
Company \_\_\_\_\_  
 known as the Live Oak, Sulphide, Copper Spring, Evening Star and Finis \_\_\_\_\_  
 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 \_\_\_\_\_

R. J. Smith \_\_\_\_\_, Chainman.  
 \_\_\_\_\_, Chainman.  
 \_\_\_\_\_, Axman.  
 \_\_\_\_\_, Flagman.

Subscribed and sworn to by the above-named persons before me this 7th \_\_\_\_\_

day of August \_\_\_\_\_, 1909  
L M Brooker \_\_\_\_\_

My Commission, Expires December 12, 1912. \_\_\_\_\_ Notary Public

# 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  
Jul 23, 1909, 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 the Live Oak Copper Mining and Smelting Company  
, known as the  
Live Oak, Sulphide, Copper Spring, Evening Star and Finis  
situate in Globe Mining District,  
Gila County, Arizona, approx. in Section  
26, Township No. 1 N., Range No. 14 E. unsurveyed,  
and designated as Survey No. 2702, 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 L. M. Brookner, a Notary  
Public this 19th  
day of August, 1909.

L M Brookner  
Notary Public.

My commission expires Dec. 12, 1912.



Affidavit of Five Hundred Dollars Improvements.

We, R. A. Smith and J. S. Hays

of lawful age, being first duly sworn according to law, depose and say: That we are acquainted with the Live Oak, Sulphide, Copper Spring, Evening Star and Finis lode mining claim,s, situate in Globe Mining district, Gila County, Arizona Territory, for which the Live Oak Copper Mining and Smelting Company

has made application for survey prior to application for patent under the provisions of the act of Congress, approved May 10, 1872; and that the labor done and improvements made thereon by the applicant and its grantor,s exceed Five Hundred Dollars in value, <sup>for each location</sup> and further that we are not personally interested in said mine.

R. A. Smith  
J. S. Hays

TERRITORY OF ARIZONA, }  
County of Gila } ss:

Sworn to and subscribed before me, this 21st

day of August, 1909

my com. Ex Dec. 12, 1912.

L M Brooker  
Notary Public.

LODE CLAIM

TO ALL WHOM IT MAY CONCERN:

This Mining Claim, the name of which is the Live Oak Mining Claim, situate on lands belonging to the United States of America, and in which there are valuable mineral deposits, was entered upon and located for the purposes of exploration and purchase by the Live Oak Copper Mining & Smelting Company, a corporation, the undersigned, on the 10th day of October, 1907.

The length of this claim is 1500.0 feet, and we claim 880.2 feet in a S. 10° 19' W. direction and 619.8 feet in a N. 10° 19' E. direction from the center of the face of discovery cut, at which this notice is posted, lengthwise of the claim, together with 300.0 feet of the surface grounds on each side of the the lode line at the North end of the claim, and 300.0 feet in width of the surface grounds on the East side of the lode line at the South end of the claim and 276.4 feet in width of the surface grounds on the West side of the lode line at the South end of the claim. The general course of the lode, deposit and premises is from the South to the North.

This claim is situated and located in the Globe Mining District in Gila County, in the Territory of Arizona, about two miles in a North-westerly direction from the Bloody Tanks, and is bounded on the North by the Finis claim; the East by the Sulphide claim and on the south by the Copper King claim.

The surface boundaries are marked on the ground as follows: Beginning at a monument of stone at a point in a S. 10° 19' W. 880.2 feet from the center of the face of the discovery cut (at which this notice is posted), being the center of the Southerly end line of said claim; thence S. 80° 04' E. 300.0 feet to a 4 x 4 post in a monument of stone, being at the S.E. corner of said claim; thence N. 10° 19' E. 1500.0 feet to a 4 x 4 post in a monument of stone at the N.E corner of said claim; thence N. 80° 04' W. 300.0 feet to a monument of stone at the center of the Northerly end line of said claim; thence N. 80° 04' W. 300.0 feet to a 4 x 4 post in a monument of stone being at the N.W. corner of said claim; thence S. 09° 22' W. 1500.0 feet to a 4 x 4 post in a monument of stone, being at the S.W. corner of said claim; thence S. 80° 04' E. 276.4 feet to the place of beginning.

All done under the provisions of Chapter Six, of the Title XXXII, of the Revised Statutes of the United States and of an Act of the General Assembly of Arizona, entitled "An Act to Revise and Codify the Laws of the Territory of Arizona," approved March 16, 1901.

This is an Amended Location Notice of the Live Oak Mining Claim, located by J.J. Marshall on the 1st day of January, 1891, and recorded in Book 4 of Records of Mines, at page 6, in the office of the County Recorder of the aforesaid County of Gila to which reference is hereby made, and this Amended Location Notice is made and posted to correct errors in the description in the said original Location Notice.

Dated and posted on the ground this 10th day of October, 1907.

Live Oak Copper Mining & Smelting Co.

By F.J. Kaldenberg President.

Witnesses:

J.J. Deming

L.D. Lawrence

Filed and recorded at the request of F.J. Kaldenberg on the 15 day of October, A.D. 1907 at 10 minutes past 9 o'clock A.M.

E.T. Stewart County Recorder.

TERRITORY OF ARIZONA, }  
COUNTY OF GILA } ss.

I. E. T. STEWART, County Recorder in and for the County of Gila, Territory of Arizona, do hereby certify that the above and foregoing contain and constitute a full, true and correct copy of the Amended Location Notice of the "LIVE OAK." Mining Claim, as the same appears of record in my office in Book 8, Records of Mines, at page 530; that I have compared the same with the original record, and that the same is a true transcript and of the whole thereof.

Given under my hand and seal of office this 6th day of

May A. D. 1909.

*E. T. Stewart*

County Recorder, Gila County, A. T.

LODE CLAIM.

TO ALL WHOM IT MAY CONCERN:

This Mining Claim, the name of which is the Sulphide Mining Claim, situate on lands belonging to the United States of America, and in which there are valuable mineral deposits, was entered upon and located for the purposes of exploration and purchase by the Live Oak Copper Mining & Smelting Company, a corporation, the undersigned, on the 10th day of October, 1907.

The length of this claim is 1500.0 feet and we claim 812.0 feet in a S. 10° 19' W. direction and 688.0 feet in a N. 10° 19' E. direction from the center of the discovery shaft, at which this notice is posted, lengthwise of the claim, together with 300.0 feet in width of the surface grounds, on each side of the center of said claim. The general course of the lode deposit and premises is from the South to the North.

The claim is situated and located in the Globe Mining District, in Gila County, in the Territory of Arizona, about two miles in a Northwesterly direction from Bloody Tanks and is bounded on the East by the Copper Spring Claim; on the South by the Copper Queen claim, and on the West by the Live Oak claim.

The surface boundaries of the claim are marked upon the ground as follows: Beginning at a monument of stone at a point in a S. 10° 19' W. direction 812.0 feet from the discovery shaft (at which this notice is posted), being in the center of the South end line of said claim; thence S. 80° 04' E. 300.0 feet to a post in a monument of stone, being the S.E. corner of said claim; thence N. 10° 19' E. 1500.0 feet to a post in a monument, being at the N.E. corner of said claim; thence N. 80° 04' W. 300.0 feet to a monument of stone at the center of the North end of said claim; thence N. 80° 04' W. 300.0 feet to a post in a monument being at the N.W. corner of said claim; thence S. 10° 19' W. 1500.0 feet to a post in a monument at the S.W. corner of said claim; thence S. 80° 04' E. 300.0 feet to the place of beginning.

All done under the provisions of Chapter Six, of Title XXXII, of the Revised Statutes of the United States, and of an Act of the General Assembly of Arizona, entitled "An Act to Revise and Codify the Laws of the Territory of Arizona," approved March 16, 1901.

This is an Amended Location Notice of the Sulphide Mining Claim, located by J.J.Marshall on the 20th day of November, 1905, and recorded in Book 6 of Records of Mines, at page 15, in the office of the County Recorder of the aforesaid County of Gila, to which reference is hereby made, and this amended Location Notice is made and posted to correct errors in the description in the said original Location Notice.

Dated and posted on the ground this 10th day of October, 1907.

Live Oak Copper Mining & Smelting Company  
By F.J.Kaldenberg, Presdt

Witnesses:

J.J.Deming  
L.D.Lawrence.

Filed and recorded at the request of F.J.Kaldenberg at 10 minutes past 9 o'clock A.M. on the 15 day of October, A.D.1907.

E.T.Stewart County Recorder.

TERRITORY OF ARIZONA, }  
COUNTY OF GILA } ss.

I, E. T. STEWART, County Recorder in and for the County of Gila, Territory of Arizona, do hereby certify that the above and foregoing contain and constitute a full, true and correct copy of the Amended Location Notice of the "SULPHIDE" Mining claim,

as the same appears of record in my office in Book 15, Records of Mines, at page 151; that I have compared the same with the original record, and that the same is a true transcript and of the whole thereof.

Given under my hand and seal of office this 6th day of

May A. D. 1907.

*E. T. Stewart*

County Recorder, Gila County, A. T.

## LODE CLAIM

TO ALL WHOM IT MAY CONCERN:

This Mining Claim, the name of which is the Copper Spring Mining Claim, situate on lands belonging to the United States of America, and in which there are valuable mineral deposits was entered upon and located for the purposes of exploration and purchase by the Live Oak Copper Mining & Smelting Company, a corporation, the undersigned, on the 10th day of October, 1907.

The length of this claim is 1500.0 feet, and we claim 458.0 feet, in a S. 10° 19' W. direction and 1042.0 feet in a N. 10° 19' E. direction from the center of the discovery shaft, at which this notice is posted, lengthwise of the claim, together with 300.0 feet in width of the surface grounds, on each side of the center of said claim. The general course of the lode deposit and premises is from the South to the North.

The claim is situated and located in the Globe Mining District, in Gila County, in the Territory of Arizona, about two miles in a Northwesterly direction from the Bloody Tanks and is bounded on the South by the Fulton claim- on the East by the Blue Copper and Evening Star claims and on the West by the Sulphide claim.

The surface boundaries of the claim are marked upon the ground as follows: Beginning at a monument of stone at a point in a S. 10° 19' W. direction 458.0 feet from the discovery shaft (at which this notice is posted), being in the center of the South end line of said claim; thence S. 80° 04' E. 300.0 feet to a post in a monument of stone, being the S.E. corner of said claim; thence N. 10° 19' E. 1500.0 feet to a post in a monument, being at the N.E. corner of said claim; thence N. 80° 04' W. 300.0 feet to a monument of stone at the center of the north end of said claim; thence N. 80° 04' W. 300.0 feet to a post in a monument, being at the N.W. corner of said claim; thence S. 10° 19' W. 1500.0 feet to a post in a monument at the S.E. corner of said claim; thence S. 80° 04' E. 300.0 feet to the place of beginning

All done under the provisions of Chapter Six, of Title XXXII, of the Revised Statutes of the United States and of an Act of the General Assembly of Arizona, entitled "An Act to Revise and Codify the Laws of the Territory of Arizona," approved March 16, 1901.

This is an Amended Location Notice of the Copper Spring Mining Claim, located by J.J. Marshall on the first day of January, 1891, and recorded in Book 4 of Records of Mines, at page 7, in the office of the County Recorder of the aforesaid County of Gila, to which reference is hereby made, and this amended Location Notice is made and posted to correct errors in the description in the said original Location Notice.

Dated and posted on the ground this 10th day of October, 1907..

Witnesses:

J.J. Deming  
L.D. Lawrence..

Live Oak Copper Mining & Smelting Company  
By F.J. Kaldenberg, President..

Filed and recorded at the request of F.J. Kaldenberg at 10 minutes past 9 o'clock A.M. on the 15 day of October, A.D. 1907..

E.T. Stewart County Recorder.

TERRITORY OF ARIZONA, }  
COUNTY OF GILA } ss.

I, E. T. STEWART, County Recorder in and for the County of Gila, Territory of Arizona, do hereby certify that the above and foregoing contain and constitute a full, true and correct copy of the Amended Location Notice of the "COPPER SPRING" Mining Claim,

as the same appears of record in my office in Book 15, Records of Mines

at page 147; that I have compared the same with the original record, and that the same is a true transcript and of the whole thereof.

Given under my hand and seal of office this 6th. day of

May

A. D. 1909..

*E. T. Stewart*

County Recorder, Gila County, A. T.

NOTICE OF MINING LOCATION

LODE CLAIM.

TO ALL WHOM IT MAY CONCERN:

This Mining Claim, the name of which is the Evening Star Mining Claim, situate on lands belonging to the United States of America, and in which there are valuable mineral deposits, was entered upon and located for the purposes of exploration and purchase by the Live Oak Copper Mining & Smelting Company, a corporation, the undersigned, on the 10th day of October, 1907.

The length of this claim is 1500.0 feet, and we claim 234.0 feet in a N. 64° 28' W. direction and 1266.0 feet in a S. 64° 28' E. direction from the center of the discovery shaft, at which this notice is posted, lengthwise of the claim, together with 291.4 feet in width of the surface grounds, on each side of the center of said claim. The general course of the lode deposit and premises is from the West to the East..

The claim is situated and located in the Globe Mining District in Gila County, in the Territory of Arizona, about two miles in a North-westerly direction from Bloody Tanks and is bounded on the North by the Blue Copper Claim; on the South by the Fulton and on the West, by the Copper Spring claim.

The surface boundaries of the claim are marked upon the ground as follows: Beginning at a monument of stone at a point in a N. 64° 28' W. direction 234.0 feet from the discovery shaft (at which this notice is posted), being in the center of the N.W. end line of said claim; thence N. 39° 16' E. 300.0 feet to a post in a monument of stone, being the N.W. corner of said claim; thence S. 64° 28' E. 1500.0 feet to a post in a monument, being at the N.E. corner of said claim; thence S. 39° 16' W. 300.0 feet to a monument of stone at the center of the S.E. end of said claim; thence S. 39° 16' W. 300.0 feet to a post in a monument, being at the S.E. corner of said claim; thence N. 64° 28' W. 1500.0 feet to a post in a monument at the S.W. corner of said claim; thence N. 39° 16' E. 300.0 feet to the place of beginning.

All done under the provisions of Chapter Six, of Title XXXII, of the Revised Statutes of the United States and of an Act of the General Assembly of Arizona, entitled "An Act to Revise and Codify the Laws of the Territory of Arizona," approved March 16, 1901.

This is an Amended Location Notice of the Evening Star Mining Claim, located by the Live Oak Copper Mining & Smelting Company on the 3rd day of June 1899, and recorded in Book 6 of Records of Mines at page 443, in the office of the County Recorder of the aforesaid County of Gila, to which reference is hereby made, and this amended Location Notice is made and posted to correct errors in the description in the said original Location Notice.

Witnesses:  
 J.J. Deming  
 L.D. Lawrence.  
 Live Oak Copper Mining & Smelting Company,  
 By F.J. Kaldenberg, Presdt.

Filed and recorded at the request of F.J. Kaldenberg at 10 minutes past 9 o'clock A.M. on the 15 day of October, A.D. 1907..

E.T. Stewart, County Recorder..

TERRITORY OF ARIZONA, }  
 COUNTY OF GILA } ss.

I, E. T. STEWART, County Recorder in and for the County of Gila, Territory of Arizona, do hereby certify that the above and foregoing contain and constitute a full, true and correct copy of the Amended Location Notice of the "EVENING STAR" Mining Claim,

as the same appears of record in my office in Book 15, Records of Mines,  
 at page 150; that I have compared the same with the original record, and that the same is a true transcript and of the whole thereof.

Given under my hand and seal of office this 6th day of

May A. D. 1909.

*E. T. Stewart*

County Recorder, Gila County, A. T.

Jul 23 1909

AMENDED  
NOTICE OF MINING LOCATION  
LODE CLAIM.

WHEREAS, the undersigned, Live Oak Copper Mining and Smelting Company, is the owner of the four following mining locations, to wit: The "Finis", located by Forrest J. Kaldenberg on the first day of January, 1905, of which the location notice is recorded in the recorder's office of Gila County, Territory of Arizona, in Book 9 of Records of Mines at page 297; the "Copper Chief", located by Frank L. Strang and J. W. Boone on the 23d day of November 1905, of which the location notice is recorded in said recorder's office in Book 11 of Records of Mines at page 56; the "Red Beauty", located by J. S. Hays and Geo. W. Sidner on the 10th day of January, 1907, of which the location notice is recorded in said recorder's office in Book 13 of Records of Mines at page 54; and the "Nipper", located by J. B. Newman, Geo. F. Wilson and J. W. Bandhauer on the 24th day of January 1909, of which the location notice is recorded in said recorder's office in Book 18 of Records of Mines at page 215; and

WHEREAS, said four locations were all conflicting locations of the same ground in Globe Mining District, Gila County, Territory of Arizona, but have all been conveyed to the undersigned, and have thus become merged as a single mining claim.

NOW, THEREFORE, for the purpose of further consummating and perfecting such merger into a single location, to be named "Finis", and for the purpose of correcting errors in the description of said original notices and in the amended location recorded in said office in Book 8 of Records of Mines at page 614, and for other purposes, the undersigned does hereby amend each and all of said Finis, Copper Chief, Red Beauty and Nipper locations, and the location notices thereof, so that they shall all be consolidated as a single location, without waiving any rights which the undersigned may have under any of said locations, and according to the following description:

The name of the claim is FINIS.

The name of the locator is Live Oak Copper Mining and Smelting Company.

The dates of the original locations are as hereinbefore set out, and of this amended location is the 17th day of July, 1909, which is the date when this amended notice is posted on the ground.

The length of the claim is 1059.94 feet and the width of the claim is 512.73 feet at the easterly end and 100 feet at the westerly end. The distance from the point of discovery to the east end is 3050 feet and to the west end is 754.94 feet. The general course of the claim is from westerly to easterly.

The claim is in the Globe Mining District, Gila County, Territory of Arizona, about six and three-fourths miles in a general westerly direction from the city of Globe, and about 350 feet north from the vertical shaft of the Live Oak Copper Mining and Smelting Company on the sulphide claim. It is bounded on the south by the Live Oak No. 3, Live Oak and Sulphide mining claims, and on the northeast by the Copper Hill claim.

The surface boundaries of the claim are marked on the ground as follows: Beginning at a post surrounded by a mound of stone at a point in a S. 87° 07' E. direction 305.0 feet from the discovery shaft (at which this notice is posted) being in the center of the easterly end line of said claim; thence north 55 deg. 04 min. west 256.37 feet to a post surrounded by a mound of stone, being the north east corner of the claim and identical with the west corner of the Copper Hill claim; thence north 80 deg. 56 min. west 425.01 feet to a post in a mound of stone at an angle in the north side line of the claim; thence south 74 deg. 19 min. west 487.88 feet to a post set in a mound of stone, being the northwest corner of the claim; thence south 55 deg. 04 min. east 50 feet to a post in a mound of stone, being at the center of the westerly end line of the claim; thence south 55 deg. 04 min. east 50 feet to a post in a mound of stone, being the southwest corner of the claim; thence S. 82° 03' E. 1239.70 feet to a post in a mound of stone, being the southeast corner of the claim; thence north 55 deg. 04. min. west 256.37 feet to the place of beginning.

Public notice is hereby given that the undersigned claims all of the ground hereinabove described as a lode mining claim under the provisions of Chapter Six, of Title XXXII, of the Revised Statutes of the United States and of an act of the General Assembly of Arizona, entitled "An Act to

Revise and Codify the Laws of the Territory of Arizona, approved March 16, 1901.

Live Oak Copper Mining And Smelting Company.  
By Forrest J. Kaldenberg Secretary.

Witnesses:  
Jas. H. Moore  
J. E. Thoms

Filed and recorded at the request of L. L. Hayden on the 17 day of July A.D. 1909 at 45 minutes past 9 o'clock A. M.  
E. T. Stewart County Recorder.

TERRITORY OF ARIZONA, }  
COUNTY OF GILA } ss.

I. E. T. STEWART, County Recorder in and for the County of Gila, Territory of Arizona, do hereby certify that the above and foregoing contain and constitute a full, true and correct copy of Amended Location Notice of  
the "FINIS" Mining Claim,

as the same appears of record in my office in Book 16, Records of Mines,  
at page 5; that I have compared the same with the original record, and that the same is a true transcript and of the whole thereof.

Given under my hand and seal of office this 17th day of  
July A. D. 1909.

E. T. Stewart  
By Belle Maldonado County Recorder, Gila County, A. T.  
Deputy Recorder.

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

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DEPARTMENT OF THE INTERIOR,  
Office of U. S. Surveyor General,

Phoenix, Arizona, October 16, 1909.

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 Live Oak Copper Mining and Smelting Company, known as the Live Oak, Sulphide, Copper Spring, Evening Star, Finis, situate in Globe Mining District, Gila County, Arizona, approximately in Sec. 26, T. 1 N., R. 14 E., Unsur., and designated as Survey No. 2702, 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 the benefit of each of said mining claims by claimant or its grantors, and that said improvements consist of 18 cuts, 5 tunnels, 3 shafts, 1 winze, 1 stope and 1344.3 ft. of drifts and crosscuts, together with 5/8 interest in No. 2 shaft on the Sulphide lode, No. 2 shaft and No. 3 tunnel on the Live Oak lode, and No. 2 tunnel on the Copper Spring lode, with workings therefrom, value \$34,629.00. Tunnel No. 3 on the Sulphide lode, value \$2064, being a common improvement for the benefit and development of the Sulphide and Live Oak



lodes, and only those lodes, an undivided one-half interest therein, value \$1032, is properly credited to each of said lodes. No. 2 shaft on the Sulphide lode, No. 2 shaft and No. 3 tunnel on the Live Oak lode, and No. 2 tunnel on the Copper Spring lode, together with the workings therefrom, comprising a system of common improvements for the economical and advantageous working of the five claims of this survey, the Copper Queen and Fulton lodes, of Survey No. 2686, and the Copper King lode, Survey No. 2630, an undivided 1/8 interest in the value thereof, or \$5871, is properly credited to each of said lodes.

I further certify that no portion of said labor or improvements has been included in the estimate of expenditures upon any other claim, and that the plat of said survey, filed in the U. S. Land Office at Phoenix, Arizona, is correct and in conformity with the foregoing Field Notes.

Frank S. Ingalls,  
U. S. 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,

October 16, 1909

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

LIVE OAK COPPER MINING AND SMELTING COMPANY

, known as the

LIVE OAK, SULPHIDE, COPPER SPRING, EVENING STAR, AND FINIS.

situate in GLOBE Mining District,

GILA County, ARIZONA.

in Section Approx. 26, Township No. 1 N., Range No. 14 E., Unsur.

, designated as Survey No. 2702

executed by Edwin T. Stewart, U. S. Deputy Mineral

Surveyor, July 23-Aug. 18, 1909, under my instructions dated

July 20, 1909, 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. A true copy of the copy of the location certificate filed by the applicant for

survey is included in the field notes.

Frank S. Dugath

U. S. Surveyor-General for Arizona.