

SEP 23 1909

4-683.

MINERAL SURVEY No. 2686

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

Copper Queen and Fulton

Globe Mining District,

Gila County, Arizona, approximately in

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

Surveyed under instructions dated June 25, 1909.

by Edwin J. Stewart

U. S. Mineral Surveyor.

Claim located See location notices, 19

Survey commenced July 20, 1909.

Survey completed July 22, 1909.

6-822

Address of Claimant's Attorney:

S. E. Hazzard,
Bisbee,
Arizona.

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Mineral Survey No. 2686.

Fulton Lode.

Beginning at Cor. No.1, identical with the S.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-F-2686.

The Cor. of Sec. 25, 36, 30 and 31, T.1 N., Rs. 14 and 15 E., G.&S.R.B.& M., bears S. 82° 48' 00" E. 6296.9 ft.

Thence N. 61° 45' W.

1500.00 To Cor. No. 2, identical with S.W. Cor. of the location.

On line 4-1, Copper Queen lode, this survey.

A pine post, 4 ft. long, 4 ins. sq., with nail driven at the exact corner, set 18 ins. in the ground, scribed 2-F-2686.

Thence N. 09° 52' E.

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

309.80 To northwest 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.W.E.C.-F-2686.

440.00 Cross road, course west.

494.81 To Cor. No. 3, identical with Cor. No. 4, Copper Queen lode, this survey, and Cors. 1 and 2 respectively, of Sulphide and Copper Spring lodes, Sur. 2702.

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.

N.W.Cor. of the location, a 4 x 4 post in mound of stone bears N. 09° 52' E. 125.59 ft.

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Thence S. 80° 04'E.

Along line 2-1, Copper Spring lode, -Sur. 2702.

196.0 Cross road, course southwest.

300.00 To south end center, Copper Spring lode, Sur. 2702.

379.24 To Cor. No. 4, and intersect line 3-4, Evening Star lode, Sur. 2702, at N. 39° 16' E. 143.95 ft. from Cor. No. 3.

A pine post, 4.5 ft. long, 4 ins. sq., with nail driven at the exact corner, set 18 ins. in the ground, scribed 4-F-2686.

N.W.Cor. of the location bears N. 61° 45'W. 399.64 ft.

Thence S. 61° 45' E.

83.00 Cross road, course northwest.

1100.36 To Cor. No. 5, 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 5-F-2686.

Thence S. 09° 52'W.

94.57 Intersect line 2-3, Evening Star lode, Sur. 2702, at S. 64° 98'E. 1158.84 ft. from Cor. No. 3.

310.60 To southeast 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 S.E.E.C.-F-2686.

569.00 Cross road, course west.

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

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Copper Queen Lode.

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

-3-

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.Q.-2686.

The Cor. of Sec. 25, 36, 30 and 31 T. 1 N., Rs. 14 and 15 E., G.&S.R.B.&M., bears S. 86° 03' 10"E. 7755.1 ft.

Thence N. 80° 04'W.

300.00 To south 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 S.E.C.-C.Q.-2686.

596.10 To Cor. No. 2, identical with S.W.Cor. of the location, and Cor. No. 1, 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 1-2530-C.K. and 2-C.Q.-2686.

Thence N. 09° 43'E.

Along line 1-4, Copper King lode, Sur. 2530.

1475.10 To Cor. No. 3, identical with N.W.Cor. of the location, Cor. 4, Copper King lode, Sur. 2530 and Cors. 1 and 2 respectively of Live Oak and Sulphide lodes, Sur. 2702.

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.

Thence S. 80° 04'E.

Along line 2-1, Sulphide lode, Sur. 2702.

300.00 To north end center, identical with monument of the location and south end center, Sulphide lode, Sur. 2702.

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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.

548.00 Cross road, course northwest.

600.00 To Cor. No. 4, identical with N.E. Cor. of the location, Cors. 1 and 2 respectively of Sulphide and Copper Spring lodes, Sur. 2702, and Cor. No. 3, Fulton lode, this survey.

Corner previously described.

Thence S. 09° 52'W.

Along line 3-2, Fulton lode, this survey.

185.01 To northwest end center, Fulton lode, this survey.

494.81 To Cor. No. 2, Fulton lode, this survey.

1475.10 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 two locations embraced in this survey extend as follows from their respective discovery points:

Fulton lode, N. 61° 45'W. 195.0 ft., and S. 61° 45'E. 1305.0 ft.

Copper Queen lode, N. 09° 52'E. 100.0 ft and S. 09° 52'W. 1375.1 ft.

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Area.	Acres.
Total Area Fulton lode	19.727

Area in conflict with
 Evening Star lode, Sur. 2702 2.995
 Total Area Copper Queen lode20.252.

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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 Sulphide, Copper Spring and Evening Star lodes, Sur. 2702, the Live Oak Copper Mining and Smelting Co., claimant.

On the east: The Evening Star lode, Sur. 2702, the Live Oak Copper Mining and Smelting Co., claimants; and an unknown claim.

On the south: The Goodyear, Insert and Oversight lodes, unsurveyed, Live Oak Development Co., claimant; the Copper Glance lode, unsurveyed, A.A.McKenzie, claimant; the Big A.Nuff lode, unsurveyed, Wm. Hodges, et al. claimants; the Copper Vault lode, unsurveyed, L.H.Trim, claimant; the Cottontail No. 1, Cottontail No. 2 and Cottontail No. 3 lodes, unsurveyed, William Mill Williams et al. claimants.

On the west: The Cottontail No. 3 lode, unsurveyed, William Mill Williams, et al., claimants; and the Copper King lode, Sur. 2530, the Live Oak Copper Mining and Smelting Co., 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 two locations in this survey, by the claimant or its grantors, is not less than five hundred dollars, and that said improvements consist of:

A 1/8th. interest for each of the two claims in this survey, amounting to \$5871.00 in the common improvements on the claims embraced in Mineral Sur. 2702, which is particularly described in the official returns of said Sur. 2702, and a copy of the detailed description of which and the report setting forth why said improvements are a common improvement for the benefit of the claims in this survey, as well as for the claims in said Sur. 2702, and for the Copper King lode, Sur.2530, is as follows:

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 1001.8 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. 41.1 ft. to Pt.8; 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. (incline 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' E. 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. 25.9 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. 41.6 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. 2565. Commencing at Pt. 4, a winze, 5 x 8 ft. 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 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 \$10350.00

Improvement No. 2 of the Copper Spring lode, 1256.5 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. 20.1; thence N. 19° 39' W. 27.3 ft. to Pt. 2; thence N. 09°

40' W. 72.7 ft. to Pt. No. 3; thence N. 07° 48' W. 85.5 ft. to Pt. 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 (improvement 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. 2686 and the Copper King lode, Sur. 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 claim. 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; 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 from 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. 2686 and the Copper King lode, of survey 2530 a 1/8th of the total value of the improvements, amounting to \$5871.00 for each claim.

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Fulton lode.

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

No. 1, the discovery, 16 ft. of cut, 4 x 10 ft. the face of which is on the lode line, S. 61° 45' E. 195.0 ft. from the northwest end center, and extends thence N. 26° 41' W. to mouth. Value \$35.00.

No. 2, 32 ft. of cut and tunnel, 4 x 6 ft. the mouth of which bears S. 61° 05' E. 188.7 ft. from Cor. No. 3, and extends thence S. 64° E. to face. Value \$150.00.

No. 3, 12 ft. of cut, 4.5 x 8 ft., the northwest end of which bears S. 41° 43' E. 300.8 ft. from Cor. No. 3, and extends thence S. 41° 43' E. to face. Value \$30.00.

~~No. 4~~, 18.5 ft. of cut, 4 x 10 ft., the northeast end of which bears S. 56° 06' E. 289.8 ft. from Cor. No. 3 and extends thence S. 06° 00' W. to face:

~~No. 5~~, 31 ft. of cut and tunnel, 5 x 6 ft. the north end of which bears S. 09° 54' E. 240.6 ft. from Cor. No. 3, and extends thence S. 09° 54' E. to face.

The value of ^{the last two} improvements ~~Nos. 4 and 5~~ is not credited to this claim due to the fact that the work was not performed by or at the expense of the claimants.

Copper Queen Lode.

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

No. 1, the discovery, 12 ft. of cut, 4 x 11 ft. the face of which is on the lode line, S. 09° 52' W. 100.0 ft. from the north end center, and extends thence N. 26° 30' E. to the mouth. Value \$35.00.

No. 2, shaft, 3.5 x 4.5 x 9 ft., the center of which bears S. 74° 53' W. 110.6 ft. from Cor. No. 4. Value \$40.00.

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No. 3, 26.7 ft. of cut and tunnel, 4 x 6 ft. the mouth of which bears S.87° 31'W.274.7 ft. from Cor. No. 4, and extends thence S. 13° 19'W. to face. Value \$125.00

~~No. 4~~, shaft, 4 x 6 x 18 ft., the center of which bears S. 26° 54' E. 236.7 ft. from Cor. No. 3, The value of this improvement is not credited to this claim due to the fact that work was not performed by the claimant.

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Other Improvements.

A bunk house, 16 x 40 ft., the N.W.Cor. of which bears S. 79° 13'E. 273.2 ft. from Cor. No. 3 of the Fulton lode. Course of long sides S.79° 30'E.

A boarding house, 18 x 60 ft. the N.W. Cor. of which bears S.66° 50'E. 534.0 ft. from Cor. No. 3 of the Fulton lode. Course of long sides N.01° W.

A dwelling house, 16 x 16 ft., the N.W.Cor. of which bears S.63° 20'E. 512.3 ft. from Cor. No. 3 of Fulton lode. Course of east side N.01°W:

A dwelling house, 10 x 10 ft., the N.W.Cor. of which bears S.59°E. 543.0 ft. from Cor. No. 3 of the Fulton lode. Course east side N.09° 20'W.

A barn, 16 x 16 ft., the N.W.Cor. of which bears S.56° 57' E. 771.0 ft. from Cor. No. 3 of the Fulton lode. Course of northeast side N.32° 57'W.

A dwelling house, 22x 24 ft. the N.W.Cor. of which bears S.54°24'E. 561.6 ft. from Cor. No. 3 of the Fulton lode. Course of long sides N.01°W.

An Office Building, 16 x 60 ft., the N.W.Cor. of which bears S.52° 33'E. 624.6 ft. from Cor. No. 3 of the Fulton lode. Course of long sides N.01° W.

A dwelling house, 12 x 16 ft., the N.W.Cor. of which bears S.48° 25'E. 672.9 ft. from Cor. No. 3 of the Fulton lode. Course of long sides N.01°W.

A dwelling house, 12 x 24 ft., the N.E.Cor. of which bears S.25° 19'E. 201.1 ft. from Cor. No. 3 of the Fulton lode. Course of long sides N.74° 21'E.

A dwelling house, 16 x 18 ft. the N.E.Cor. of which bears S.17° 03'E. 194.0 ft. from Cor. No. 3 of the Fulton lode. Course of long sides N.15° 39'W.

A dwelling house, 15 x 30 ft., the N.E.Cor. of which bears S.09° 08'E. 178.0 ft. from Cor. No. 3 of the Fulton lode. Course of long sides N.15° 39'W.

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Instrument.

This survey was made with a 6 1/4" 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 with a 650 ft. steel tape.

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Report.

The side and end lines of the claims embraced 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 15E. on the East side.

Sur. 2530, Copper King lode:

All of the corners are pine posts, properly set and scribed with the number and the corner of survey. The disagreement between these notes and line 4-1 and the tie to the section corner from Cor. No. 1 as reported in the official returns on said Copper King lode, is nominal.

Sur. 2702, Live Oak, Sulphide, Copper Spring and Evening Star lodes:

All of the corners are pine posts, properly set and scribed.

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

Edwin S. 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 Copper Queen and Fulton
 and showing the respective capacities in which they acted.

R.A. Smith _____, Chainman.
 _____, Chainman.
 _____, Axman.
 _____, Flagman.

FINAL OATHS OF ASSISTANTS.

We, I, R.A. Smith
 I
 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 the Live Oak Copper Mining and Smelting
Company
 known as the Copper Queen and Fulton
 represented in the foregoing field notes as having been surveyed by said mineral surveyor and under his
 direction; and that said survey has been in all respects, to the best of our knowledge and belief, faithfully
 and correctly executed, and the corner and boundary monuments established according to law and the instruc-
 tions furnished by the United States Surveyor-General for Arizona

R.A. Smith _____, Chainman.
 _____, Chainman.
 _____, Axman.
 _____, Flagman

Subscribed and sworn to by the above-named persons before me this 21st
 day of August, 1909.

L.M. Brooker

My commission expires Dec. 13, 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 June 25, 1905, 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 Copper Queen and Fulton, situate in Globe Mining District, Gila County, Ariz., approx., in Section 26, Township No. 1 N., Range No. 14 E., unsurveyed, and designated as Survey No. 2686, as represented in the foregoing field notes, which accurately show the boundaries of said mining claim as distinctly marked by monuments on the ground, and described in the attached copy of the location certificate, which was received by me from the Surveyor General with said instructions, and that all the corners of said survey have been established and perpetuated in strict accordance with the law, official regulations and instructions thereunder; and I do further solemnly swear that the foregoing are the true and original field notes of said survey and my report therein, and that the labor expended and improvements made upon said mining claim by claimant or its grantors are as therein fully stated, and that the character, extent, location, and itemized value thereof are specified therein with particularity and full detail, and that no portion of said labor or improvements so credited to this claim has been included in the estimate of expenditures upon any other claim.

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.

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 Copper Queen and Fulton mining claims, situate in Globe Mining district, Gila County, Arizona Territory, for which 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 exceed Five Hundred Dollars in value, 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

L M Brookner



My Com Ex Dec 17, 1912

LODE CLAIM.

TO ALL WHOM IT MAY CONCERN:

This Mining Claim, the name of which is the Fulton 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 195.0 feet, in a N. 61° 48' W. direction and 1305.0 feet in a S. 61° 48' E. direction from the center of the discovery shaft, at which this notice is posted, lengthwise of the claim, together with 293.8 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 North west to the South 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 Northwesterly direction from the Bloody Tanks and is bounded on the North by the Evening Star claim and on the West by the Copper Queen 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. 61° 48' W. direction 195.0 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. 09° 51' E. 309.6 feet to a post in a monument of stone, being the N.W. corner of said claim; thence S. 61° 48' E. 1500.0 feet to a post in a monument, being at the N.E. corner of said claim; thence S. 09° 51' W. 309.6 feet to a post in a monument at the center of the S.E. end of said claim; thence S. 09° 51' W. 309.6 feet to a post in a monument, being at the S.E. corner of said claim; thence N. 61° 48' W. 1500.0 feet to a post in a monument at the S.W. corner of said claim; thence N. 09° 51' E. 309.6 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 Fulton Mining Claim, located by Anton Trojanovich, Forrest J. Kaldenberg, Geo. Goodwin and T. Shields Collins, on the 1st day of January, 1899, and recorded in Book 6 of Records of Mines, at page 377, 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.

The 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 FULTON Mining Claim.

as the same appears of record in my office in Book 15, Records of Mines,
at page 149; 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 Copper Queen 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 under- signed, on the 10th day of October, 1907.

The length of this claim is 1477.7 feet, and we claim 1377.7 feet in a S. 09° 51' W. direction and 100.0 feet in a N. 09° 51' 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 N.W. direction from the Bloody Tanks and is bounded on the North by the Sulphide claim; on the East by the Fulton claim and on the West by the Copper Queen claim.

The surface boundaries of the claim are marked upon the ground as follows: Beginning at a monument of stones at a point in a S. 09° 51' W. direction 1377.7 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. 09° 51' E. 1477.7 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. 09° 51' W. 1477.7 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 Copper Queen Mining Claim, located by J.J.Marshall on the 7th day of January, 1896, and recorded in Book 6 of Records of Mines, at page 14, 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.Laurence

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 "COPPER QUEEN" Mining Claim.

as the same appears of record in my office in Book 15, Records of Mines,
at page 148; 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.

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

DEPARTMENT OF THE INTERIOR,

OFFICE OF U. S. SURVEYOR GENERAL,

Phoenix, Arizona,

October 13, 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 COPPER QUEEN and FULTON,

, situate in Globe

Mining District, Gila County,

Arizona, Approx. , in Section 26, Township No. 1 N.,

Range No. 14 E., Unsur., and designated as Survey

No. 2686, 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 5 cuts, 2 tunnels and 1 shaft. No. 2
shaft on the Sulphide lode, No. 2 shaft on the Live Oak lode, No.
3 tunnel on the Live Oak lode and No. 2 tunnel on the Copper
Spring lode, of Mineral Survey No. 2702, together with the work-
ings therefrom, constitute a system of common improvements for
the benefit and development of the five claims embraced in Min-
eral Survey No. 2702, as well as the Copper King lode, Sur. No.
2530, and the two claims of this survey, and an undivided one-
eighth interest therein, value \$5871, is therefore properly
credited to each of the claims in this survey.

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 S. Ingalls,

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,

October 13, 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

COPPER QUEEN and FULTON

situate in Globe Mining District,

Gila

County, Arizona, in Approx.

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

designated as Survey No. 2686

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

Surveyor, July 20-22, 1909, under my instructions dated

June 25, 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. Ingalls

U. S. Surveyor-General for Arizona.