

4-683

MINERAL SURVEY No. 3601

Arizona Land District

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

The Magma Chief Copper Company

KNOWN AS THE

BAGDAD, COMET, LOOKOUT, and MARIPOSA Lodes

Bunker Hill Mining District

Pinal County, Arizona

Approx. Section 15 and 22, Township 8 South, Range 18 East Uns.

Surveyed under instructions dated July 1st., 1919.

by Harry E. Jones,
U. S. Mineral Surveyor.

Claim located See location notices., 19

Survey commenced July 6th., 1919.

Survey completed July 14th., 1919.

Address of claimant John H. Page & Co. Box 117,
Phoenix, Arizona.

DATES OF AMENDED LOCATIONS.

See location notices.

SURVEY NO. 3601

Feet	BAGDAD Lode
	Beginning at Cor. No. 1 Identical with location monument, and Cor.1 Kin Sabie lode Sur.No.3602; on line 1-2 Sunday lode, Sur. No. 3602. A 3ft. $\frac{3}{4}$ in. iron pipe with a 2in. round screw brass cap marked U.S.MINERAL SURVEY NO.3601-3602-B-1-KS-1; set 18ins. in ground and surrounded with a substantial mound of earth and rock. U.S.L.M. No. 3272 bears N. 14° 47' W. 923.04 ft. Cor. 2 Sunday lode Sur.No. 3602 bears S.23°28'W. 77.0 ft. No other suitable bearings available. Thence N. 23° 28' E. Along line 1-2 Sunday lode Sur. No. 3602.
25.00	South bank of Creek, course W.
40.00	North bank of Creek, course W.
223.00	Intersect East End Center of Sunday lode, Sur.No. 3602.
523.00	Intersect Cor.1 Sunday lode, identical with Cor.1 Tuesday lode, both of Sur.No.3602.
823.00	Intersect East End Center of Tuesday lode, Sur.No.3602.
1123.00	Intersect Cor.4 Tuesday lode, identical with Cor.4 Granite Boulder lode, both of Sur. No. 3602.
1423.00	Intersect East End Center of Granite Boulder lode, Sur.No. 3602.
1500.00	To Cor. No.2 Identical with location monument, and Cor. 3 Granite Boulder lode Sur.No.3602. A 3ft. $\frac{3}{4}$ in. iron pipe with a 2in round screw brass cap marked U.S.MINERAL SURVEY NO. 3601-3602-B-2-GB-3; set 18 ins. in ground and surrounded with a substantial mound of earth and rock. Cor.1 Red Oxide lode Sur.No.3564, bears S.22°22'E. 208.0ft. No other suitable bearings available. Thence S. 73° 57' E.
89.02	Intersect line 1-2 Red Oxide lode whence Cor.1 bears S.2° 13'W. 167.86 ft.
300.00	To North End Center, Identical with location monument, a substantial mound of stone.

Feet

600.00 To Cor. No. 3

Identical with location monument, and Cor.2 Comet lode this survey.

A 3ft. $\frac{3}{4}$ in. iron pipe with a 2in. round screw brass cap marked U.S.MINERAL SURVEY NO.3601-B-3-C-2; set 8ins. in rock in place and surrounded with a substantial mound of earth and rock.

Cor.4 Gulch Copper lode Sur.No.3272, bears N.87°23'E. 106.84ft.

No other suitable bearings available.

Thence S. 23° 28' W.

Along line 1-2 Comet lode this survey.

48.74 Intersect line 1-4 Red Oxide lode, Sur.No.3564, whence

Cor.1 bears N.87°47'W. 478.42 ft.

459.22 Intersect line 1-4 Gulch Copper lode, Sur.No.3272, whence

Cor.4 bears ^S ~~N.~~34°12'^{W.} ~~E.~~ ^{984.77} 451.15 ft.

1457.62 Intersect line 1-2 Gulch Copper lode, Sur.No.3272, whence

Cor.1 bears N.56°59'W. 185.98 ft.

1500.00 To Cor. No. 4

Identical with location monument, and Cor.1 Comet lode this survey; on line 1-2 Kin Sabie lode Sur.No. 3602.

A 3ft. $\frac{3}{4}$ in. iron pipe with a 2in. round screw brass cap marked U.S.MINERAL SURVEY NO.3601-B-4-C-1; set 24ins. in ground and surrounded with a substantial mound of earth and rock.

Cor.1 Gulch Copper lode, Sur.No.3272, bears N.44°46'W.

197.48 ft. No other suitable bearings available.

Thence N. 73° 57' W.

Along line 1-2 Kin Sabie lode Sur. No. 3602.

40.00 Intersect tent-houses double 12x14 ft.

270.00 North bank of Creek, course W.

300.00 True point for South End Center, W.C. hereafter described, brs. N.73°57'W 10ft.

307.00 South bank of Creek, course W.

310.00 To Witness South End Center.

Identical with location monument, a substantial mound of stone.

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

Feet COMET Lode

- Beginning at Cor. No. 1
- Identical with location monument, and Cor. 4 Bagdad lode this survey previously described; on line 1-2 Kin Sabie lode, Sur. No. 3602.
- U.B.L.M.No. 3272, bears N. 37°30'W. 1334.08 ft.
- Cor.1 Gulch Copper lode, Sur. No.3272, bears N.44°46'W. 197.48 ft. No other suitable bearings available.
- Thence N. 23° 28' E.
- Along line 4-3 Bagdad lode this survey.
- 42.38 Intersect line 1-2 Gulch Copper lode Sur. No. 3272, whence Cor.1 bears N. 56° 59' W. 185.98 ft.
- 1040.78 Intersect line 1-4 Gulch Copper lode, Sur.No.3272, whence Cor.4, bears N.34°12' E. ^{515.25} ~~451.15~~ ft.
- 1451.26 Intersect line 1-4 Red Oxide lode, Sur.No.3564, whence Cor.1 bears N.87°47'W. 478.42 ft.
- 1500.00 To Cor. No. 2
- Identical with location monument, and Cor. 3 Bagdad lode this survey previously described.
- Cor. 4 Gulch Copper lode, Sur.No. 3272, bears N.87°23'E. 106.84 ft. No other suitable bearings available.
- Thence S. 73° 57' E.
- 90.01 Intersect line 1-4 Gulch Copper lode, Sur.No.3272, whence Cor. 4 bears N.34°12'E. 35.98 ft.
- 189.51 Intersect line 1-4 Red Oxide lode, Sur.No.3564, whence Cor.1 bears N.87°47'W. 680.10 ft.
- 203.45 Intersect Cor.1 Mariposa lode this survey.
- Along line 1-4 Mariposa lode this survey.
- 213.28 Intersect line 3-4 Gulch Copper lode, Sur.No.3272, whence Cor. 4 bears N.56°59'W. 117.15 ft.
- 300.00 To North End Center
- Identical with location monument, a substantial mound of stone.
- 410.00 Cross center of 8 ft. wash course SW.
- 600.00 To Cor. No. 3
- Identical with location monument, and Cor. 2 Lookout lode this survey; on line 1-4 Mariposa lode this survey.

	<p>Feet A 3ft. $\frac{3}{4}$in. iron pipe with a 2in. round screw brass cap marked U.S. MINERAL SURVEY NO. 3601-C-3-L-2; set 18ins. in ground and surrounded with a substantial mound of earth and rock.</p> <p>Cor. 3 Gulch Copper lode, Sur. No. 3272, bears S. $12^{\circ}01'E$. 159.66 ft. No other suitable bearings available.</p> <p>Thence S. $23^{\circ}28'W$.</p> <p>Along line 2-1 Lookout lode this survey.</p>
114.42	<p>Intersect line 3-4 Gulch Copper lode, Sur. No. 3272, whence</p> <p>Cor. 4 bears N. $56^{\circ}59'E$. 93.98 ft.</p>
510.00	North bank of Creek course W.
525.00	South bank of Creek course W.
618.90	<p>Intersect line 3-2 Gulch Copper lode, Sur. No. 3272, whence</p> <p>Cor. 3 bears S. $34^{\circ}12'E$. 497.63 ft.</p>
1114.03	<p>Intersect line 4-1 Grand Duke lode, Sur. No. 3272, whence</p> <p>Cor. 1 bears N. $61^{\circ}48'W$. 381.84 ft.</p>
1420.00	Cross center of 10 ft. wash course NW.
1500.00	To Cor. No. 4
	<p>Identical with location monument, and Cor. 1 Lookout lode this survey; on line 1-2 Kin Sabie lode, Sur. No. 3602.</p> <p>Cor. 2 Gulch Copper lode, Sur. No. 3272, bears S. $84^{\circ}24'W$. 213.59 ft.</p> <p>Cor. 1 Grand Duke lode, Sur. No. 3272, bears N. $18^{\circ}53'W$. 564.89 ft.</p> <p>No other suitable bearings available.</p> <p>Thence N. $73^{\circ}57'W$.</p> <p>Along line 2-1 Kin Sabie lode, Sur. No. 3602.</p>
172.69	<p>Intersect line 2-3 Gulch Copper lode, Sur. No. 3272, whence</p> <p>Cor. 2 bears S. $34^{\circ}12'W$. 82.93 ft.</p>
300.00	To South End Center
	<p>Identical with location monument, a substantial mound of stone.</p>
305.00	South bank of Creek, course SW.
320.00	North bank of Creek, course SW.
423.17	<p>Intersect line 1-2 Grand Duke lode, Sur. No. 3272, whence</p> <p>Cor. 2 bears S. $28^{\circ}12'W$. 119.28 ft. and Cor. 1 bears N. $28^{\circ}12'E$. 473.72 ft.</p>
456.80	Intersect line 1-2 Gulch Copper lode, Sur. No. 3272, whence

Feet	Cor.1 bears N.56°59'W. 329.98 ft. and Cor.2 bears S.56°59'E. 270.04 ft.
600.00	To Cor. No. 1 the place of beginning.
	<u>LOOKOUT Lode</u>
	Beginning at Cor. No. 1
	Identical with location monument, and Cor.4 Comet lode this survey previously described; on line 1-2 Kin Sabie lode, Sur.No.3602.
	U.S.L.M.No.3272 bears N. 48° 36' W. 1851.35 ft.
	Cor.1 Grand Duke lode Sur.No.3272 bears N.18°53'W.564.89ft.
	Cor.2 Gulch Copper lode, Sur.No.3272, bears S.84°24'W. 213.59 ft. No other suitable bearings available.
	Thence N. 23° 28' E.
	Along line 4-3 Comet lode this survey.
80.00	Cross center of 10 ft wash course NW.
385.97	Intersect line 4-1 Grand Duke lode, Sur.No.3272, whence Cor. 1 bears N.61°48'W. 381.84 ft.
881.16	Intersect line 2-3 Gulch Copper lode, Sur.No.3272, whence Cor. 3 bears N.34°12'E. 497.63 ft.
975.00	South bank of Creek, course W.
990.00	North bank of Creek course W.
1385.58	Intersect line 3-4 Gulch Copper lode, Sur.No.3272, whence Cor. 3 bears S.56°59'E. 93.98 ft.
1500.00	To Cor. No. 2
	Identical with location monument, and Cor. 3 Comet lode this survey previously described; on line 4-1 Mariposa lode this survey.
	Cor. 3 Gulch Copper lode Sur.No.3272 bears S.12°01'E. 159.66 ft. No other suitable bearings available.
	Thence S. 73° 57' E.
	Along line 1-4 Mariposa lode this survey.
264.76	Intersect Cor.4 Mariposa lode this survey, on line 4-1 Wellington lode Sur.No.3564, whence Wit.Cor.1 bears S.2° 13'W. 338.08 ft. and true Cor. point bears S.2°13'W.377.98 ft.
300.00	To North End Center
	Identical with location monument, a substantial mound of stone.

Feet

515.80 To Cor. No. 3

Identical with location monument, on W. side line Climax lode Uns.

A 3ft. $\frac{3}{4}$ in. iron pipe with a 2in. round screw brass cap marked U.S.MINERAL SURVEY NO.3601-L-3; set 18ins. in ground and surrounded with a substantial mound of earth and rock.

Wit. Cor. 1 Wellington lode Sur. No. 3564 bears S. 43° 26' W.

369.83 ft.

Cor. 4 Red Oxide lode Sur. No. 3564 bears N. 17° 20' W. 235.54 ft.

No other suitable bearings available.

Thence S. 20° 32' W.

Along W. side line Climax lode Uns.

334.84 Intersect line 1-2 Wellington lode Sur. No. 3564, whence

True Cor. 1 point bears N. 87° 47' W. 138.31 ft.

375.00 North bank of Creek course W.

385.00 South bank of Creek course W.

1193.60 Intersect SW. corner of Climax lode Uns. identical with

N. side line Tuxedo lode Uns. whence the NW. Cor. bears N. 79° 43' W. 282.50 ft..

1229.73 Intersect line 4-1 Grand Duke lode Sur. No. 3272, whence

Cor. 1 bears N. 61° 48' W. 958.16 ft.

1491.98 To Cor. No. 4

Identical with location monument.

A 3ft. $\frac{3}{4}$ in. iron pipe with a 2in. round screw brass cap marked U.S.MINERAL SURVEY NO.3601-L-4; set 20ins. in ground and surrounded with a substantial mound of earth and rock.

The NW. corner Tuxedo lode Uns. bears N. 27° 43' W. 372.61 ft.

No other suitable bearings available.

Thence N. 73° 57' W.

10.00 Cross center of 5 ft. wash course NW.

292.76 To South End Center.

Identical with location monument, and Cor. 2 Kin Sabie lode Sur. No. 3602, and W. end center of Tuxedo lode Uns.

A 3ft. $\frac{3}{4}$ in. iron pipe with a 2in. round screw brass cap marked U.S.MINERAL SURVEY NO.3601-SEC-L-3602-KS-2; set 18ins.

in ground and surrounded with a substantial mound of earth

and rock. N.W. Cor. Tuxedo lode, unsur, bears N. 23° 28' E. 271.33 ft.

Feet Cor. 2 Grand Duke lode Sur. No. 3272 bears N. 82° 48' W. 757.30 ft.
592.76 To Cor. No. 1 the place of beginning.

MARIPOSA Lode

Beginning at Cor. No. 1
Identical with location monument; on line 2-3 Comet lode
this survey.

A 3 ft. $\frac{3}{4}$ in. iron pipe with a 2 in. round screw brass cap
marked U.S. MINERAL SURVEY NO. 3601-M-1; set 18 ins. in
ground and surrounded with a substantial mound of earth and
rock.

U.S.L.M. No. 3272 bears S. 80° 45' W. 1626.16 ft.

No other suitable bearings available.

Thence N. 2° 13' E.

1.67 To West End Center

Identical with location monument. a substantial mound of
stone.

3.34 To Cor. No. 2

Identical with location monument and intersection of line
3-4 Gulch Copper lode Sur. No. 3272, with line 4-1 Red Oxide
lode Sur. No. 3564.

A 3 ft. $\frac{3}{4}$ in. iron pipe with a 2 in. round screw brass cap
marked U.S. MINERAL SURVEY NO. 3601-M-2; set 18 ins. in ground
and surrounded with a substantial mound of earth and rock.

Cor. 1 Red Oxide lode Sur. No. 3564 bears N. 87° 47' W. 693.63 ft.

Cor. 4 Gulch Copper lode Sur. No. 3272 bears N. 56° 59' W. 106.04 ft.

No other suitable bearings available.

Thence S. 87° 47' E.

Along line 1-4 Red Oxide lode Sur. No. 3564.

220.00 Cross center of 10 ft. wash course S.

642.03 To Cor. No. 3

Identical with location monument, and intersection of line
4-1 Red Oxide lode, with line 4-1 Wellington lode, both of
Sur. No. 3564.

A 3 ft. $\frac{3}{4}$ in. iron pipe with a 2 in. round screw brass cap
marked U.S. MINERAL SURVEY NO. 3601-M-3; set 18 ins. in ground
and surrounded with a substantial mound of earth and rock.

Feet Cor.4 Red Oxide lode Sur.No.3564, bears S.87°47'E. 165.01ft.
Wit. Cor.1 Wellington lode, Sur.No.3564, bears S.2°13'W.
499.91 ft. No other suitable bearings available.

Thence S. 2° 13' W.

Along line 4-1 Wellington lode, Sur. No. 3564.

50.00 To East End Center.

Identical with location monument, a substantial mound of stone.

161.83 To Cor. No. 4

Identical with location monument; and intersection of line 4-1 Wellington lode, Sur. No. 3564, with line 2-3 Lookout lode of this survey.

Wit. Cor.1 Wellington lode Sur.No.3564 bears S.2°13'W. 338.08ft.

Cor.3 Lookout lode this survey bears S.73°57'E. 251.04 ft.

A 3ft. ³/₄in. iron pipe with a 2in. round screw brass cap marked U.S.MINERAL SURVEY NO.3601-M-4; set 18ins.in ground and surrounded with a substantial mound of earth and rock.

No suitable bearings available.

Thence N. 73° 57' W.

Along line 3-2 Lookout lode this survey.

264.76 Intersect Cor.2 Lookout lode, identical with Cor.3 Comet lode, both of this survey.

454.76 Cross center of 10 ft. wash course SW.

564.76 Intersect North End Center Comet lode this survey.

651.48 Intersect line 3-4 Gulch Copper lode, Sur.No.3272, whence Cor.4 bears N. 56°59'W. 117.15 ft.

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

Mean Magnetic Variation at all corners 14°25'E.

LODE LINES

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

- Bagdad lode; N.23°28'E.1435.0ft. and S.23°28'W. 65.0 ft.
- Comet lode; N.23°28'E. 10.0 ft. and S.23°28'W. 1490.0ft.
- Lookout lode; N.23°28'E.790.0ft. and S.23°28'W. 710.0ft.
- Mariposa lode; S.83°30'40"E.418.84ft. and N.83°30'40"W. 225.0ft.

AREA

Total area Bagdad lode 20.488 Acres

Area in conflict with--

Gulch Copper lode Sur.No.3272 2.102

Red Oxide lode Sur.No.3564 1.204

Total area Comet lode 20.488

Area in conflict with--

Red Oxide lode Sur.No.3564 0.105

Red Oxide lode Sur.No.3564 exclusive

of Gulch Copper lode Sur.No.3272 0.074

Gulch Copper lode Sur.No.3272 17.714

Gulch Copper lode Sur.No.3272 exclusive

of Red Oxide lode Sur.No.3564 17.683

Grand Duke lode Sur.No.3272 3.935

Grand Duke lode Sur.No.3272 exclusive

of Gulch Copper lode Sur.No.3272 1.206

Total area Lookout lode 18.926

Area in conflict with--

Gulch Copper lode Sur.No.3272 0.536

Wellington lode Sur.No.3564 1.562

Grand Duke lode Sur.No.3272 4.323

Tuxedo lode Uns. 1.856

Tuxedo lode Uns. exclusive of

Grand Duke lode Sur.No.3272 0.047

Total area Mariposa lode 1.216

Area in conflict with--

Gulch Copper lode Sur.No.3272 0.000+

LOCATION

This survey is located approximately in Sections 15 and 22 T. 8 S. R. 18 E. Unsurveyed G&SRB&M. Bunker Hill Mining District, Pinal County, Arizona.

EXPENDITURE OF FIVE HUNDRED DOLLARS

I certify that the value of the labor and improvements made upon or for the benefit of each of the locations embraced in said mining claim by the claimant or its grantors

is not less than Five Hundred Dollars, and that said im-
 promements consist of:

Bagdad lode.
 No.1 Dis. cut 4x12x8ft. facing SW. bears N.23°28'E. 65.0ft.
 from the South End Center point of the Bagdad lode.

Value \$ 100.00

No.2 cut 4x10x9ft. facing S. bears N.9°41'E. 100.0 ft.
 from Wit. South End Center of the Bagdad lode.

Value \$ 100.00

No.3 cut 4x11x9ft. facing S. bears N.12°16'W. 95.0ft. from
 Wit. South End Center of the Bagdad lode.

Value \$ 100.00

No.4 shaft 4x6x8ft. deep bears N.9°41'E. 598.0ft. from
 Wit. South End Center Bagdad lode.

Value \$ 80.00

No.5 cut 4x10x6 ft. facing SE. bears N.11°50'E. 657.0ft.
 from Wit. South End Center Bagdad lode.

Value \$ 50.00

An undivided 1/9th. interest in improvement No.1 Audacious
 lode, Sur.No.3602, ~~hereafter described~~ is assigned to the
 Bagdad lode.

Value \$ 922.22

An undivided 1/12th. interest in improvements No.2 and 3
 Audacious lode, Sur.No.3602; ~~hereafter described~~ is assign-
 ed to the Bagdad lode.

Value \$ 1193.12

Comet Lode

No.1 Dis. shaft 4x6x10 ft. deep bears S.23°28'W. 10.0 ft.
 from the North End Center.

Value \$ 100.00

No.2 cut 5x15x9ft. facing S. bears S.37°02'W. 475.0 ft.
 from the North End Center.

Value \$ 100.00

An undivided 1/9th. interest in improvement No.1 Audacious
 lode, Sur.No.3602, ~~hereafter described~~ is assigned to this
 lode.

Value \$ 922.22

An undivided 1/12th. interest in improvements No.2 and 3
 Audacious lode, Sur.No.3602, ~~hereafter described~~ is assign-
 ed to this lode.

Value \$ 1193.12

Lookout Lode

No.1 Dis. cut 5x12x8 ft. facing NE. bears S.23°28'W. 790.0
 ft. from the North End Center.

Value \$ 100.00

No.2 cut 4x12x9 ft. facing N. bears S.26°20'W. 800.0 ft.

from the North End Center. Value \$ 100.00

No.3 cut 6x14x8ft. facing N. bears S.27°20'W. 805.0 ft.

from the North End Center. Value \$ 100.00

An undivided 1/9th. interest in improvement No.1 Audacious lode, Sur.No.3602, ~~hereafter described~~ is assigned to this

lode. Value \$ 922.22

An undivided 1/12th. interest in improvements No.2 and 3

Audacious lode Sur.No.3602, ~~hereafter described~~ is assigned to this lode.

Value \$ 1193.12

Mariposa Lode

No.1 Dis. cut 4x14x8ft. facing W. bears S.83°30'40"W. 225.0 ft. from the West End Center. Value \$ 100.00

An undivided 1/12th. interest in ~~labor performed since date of location, as described in the notes of Sur.No.3602; in improvements Nos2&3 Audacious lode, Sur.No.3602; is assigned to this lode.~~

Value \$ 1193.12

OTHER IMPROVEMENTS

A double tent house each 12x14 ft. bears N.73°57'W. 40 ft. from Cor.4 Bagdad lode.

A frame house 18x18 ft. bears N.78°15'E. 153 ft. from Cor. 1 Comet lode.

A shaft bears N.48°40'W. 414 ft. from Cor.4 Comet lode.

A shaft bears N.48°00'W. 382 ft. from Cor.4 Comet lode.

A tent house 12x34 ft. bears N.31°50'W. 300 ft. from Cor.4 Comet lode.

A cut bears N.16°47'W. 268 ft. from Cor.4 Comet lode.

A cut and tunnel bears N.6°46'W. 767 ft. from Cor.4 Comet lode.

A shaft bears N.4°W. 776 ft. from Cor.4 Comet lode.

A shaft bears N.3°27'W. 678 ft. from Cor. 4 Comet lode.

INSTRUMENT

This survey was made with a W.&L.E.Gurley light mountain transit. The courses were deflected from a true meridian determined by direct solar observations, and checked by Polaris observations. The distances were measured with 50 ft. and 100 ft. steel tapes.

REPORT

The lines of this claim were run directly upon the ground and the corners established by measurements upon these lines. All tie lines were run directly upon the ground. The U.S.L.M. No. 3272 I find to be in good condition as to permanency but could not discern the markings upon it. Insert * below

Harry B. Jones
U.S. Mineral Surveyor.

* For explanation of the apportionment of the value of improvements Nos. 1, 2 and 3 on the Audacious lode, Sur. No. 3602, reference is made to the field notes of said survey.

IMPROVEMENTS

A double vent house each 12' x 12' on the lode.
A frame house 12' x 12' on the lode.
A corner lode.
A shaft 48' x 12' on the lode.
A shaft 48' x 12' on the lode.
A tent house 12' x 12' on the lode.
A corner lode.
A cut 12' x 12' on the lode.
A cut and tunnel 12' x 12' on the lode.
A shaft 12' x 12' on the lode.
A shaft 12' x 12' on the lode.

EXPLANATION

This survey was made with a ... the corners were located ... determined by direct ... The distances were measured ...

FINAL OATHS FOR SURVEYS.

LIST OF NAMES.

A list of the names of the individuals employed by Harry E. Jones,
 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 Magma Chief Copper Company _____
 known as the BAGDAD, COMET, LOOKOUT, MARIPOSA Lodes _____
 and showing the respective capacities in which they acted.

_____ J. L. Jones _____, *Chainman.*
 _____ H. S. Carpenter _____, *Chainman.*
 _____, *Acman.*
 _____, *Flagman.*

FINAL OATHS OF ASSISTANTS.

We, _____ J. L. Jones _____
 and _____ H. S. Carpenter _____, do solemnly swear that we assisted _____
 _____ Harry E. Jones _____, United States Mineral Surveyor, in marking the corners and surveying
 the boundaries of the mining claim of _____
 _____ The Magma Chief Copper Company _____
 known as the BAGDAD, COMET, LOOKOUT, MARIPOSA Lodes _____
 represented in the foregoing field notes as having been surveyed by said mineral surveyor and under his
 direction; and that said survey has been in all respects, to the best of our knowledge and belief, faithfully
 and correctly executed, and the corner and boundary monuments established according to law and the instruc-
 tions furnished by the United States Surveyor-General for _____ Arizona. _____

_____ J. L. Jones _____, *Chainman.*
 _____ H. S. Carpenter _____, *Chainman.*
 _____, *Acman.*
 _____, *Flagman.*

Subscribed and sworn to by the above-named persons before me this _____ 19th.
 day of _____ July _____, 1919.

_____ Ralph A. Phillips _____
 _____ Notary Public. _____

My commission expires June 23, 1923.

FINAL OATH OF U. S. MINERAL SURVEYOR.

I, Harry E. Jones, U. S. Mineral Surveyor, do solemnly swear that, in pursuance of instructions received from the United States Surveyor General for Arizona, dated July 1st. 1919., 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 Magma Chief Copper Company, known as the BAGDAD COMET LOOKOUT and MARIPOSA Lodes, situate in Bunker Hill Mining District, Pinal County, Arizona, in Section 8 ^{Approx.} 14 & 23 1/2 22, Township No. 8 South, Range No. 18 East Unsurveyed., and designated as Survey No. 3601, 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.

Harry E. Jones
U. S. Mineral Surveyor.

Subscribed and sworn to by the said Harry E. Jones,
U. S. Mineral Surveyor, before me Ralph A. Phillips a Notary Public
in and for County of Maricopa, State of Arizona.
this 19th.
day of July, 1919.

Ralph A. Phillips
Notary Public.

6-1044

My commission expires June 23, 1923.

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

Department of the Interior,

OFFICE OF U. S. SURVEYOR-GENERAL,

Phoenix, Arizona

June 11, 1920

I, U. S. Surveyor-General for Arizona

do hereby certify that the foregoing transcript of the Field Notes, return and approval of the survey of the mining claim of

The Magma Chief Copper Company

known as the BACDAD, COMET, LOOKOUT and MARIPOSA Lodes

situate in Bunker Hill

Mining District, Pinal County, Arizona, Approx.

in Section s 15 & 22, Township No. 8 S., Range No. 18 E., Unsur., and

designated as Survey No., 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 said mining claim by claimant or its grantors, and that said improvements consist of 9 cuts and 2 shafts, value \$1030, also 3/9 interest in improvement No. 1, and 4/12 interest in improvements Nos. 2 and 3. Audacious lode, Sur. No. 3602, total value \$8,569.14

and that no portion of said labor or improvements has been included in the estimate of expenditures upon any other claim.

I further certify that the plat thereof, filed in the U. S. Land Office at Phoenix,

Arizona is correct and in conformity with the foregoing Field Notes.

Frank P. Trott

United States Surveyor-General for Arizona.

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,

June 11, 1920

I, U. S. Surveyor General for Arizona,

do hereby certify that the foregoing and hereto attached Field Notes and Return of the Survey of the Mining Claim of The Magma Chief Copper Company

Bagdad, Comet, Lookout, and Mariposa Lodes,

situate in Bunker Hill mining district,

Pinal County, Arizona,

Approx. in Sections 15 and 22, Township No. 8 South, Range No. 18 East uns.

designated as Survey No. 3601

executed by Harry E. Jones, U. S. Mineral

Surveyor, July 6-14, 1919, under my instructions dated

July 1st, 1919, have been critically examined and the necessary cor-

rections and explanations made, and the said Field Notes and Return, and the Survey they describe,

are hereby approved. The certified copy of the location certificate filed by the applicant for survey is

on file in this office and a true copy of said certified copy of said location certificate is included and made

a part of the transcript of the field notes.

Frank P. Frost

U. S. Surveyor General for Arizona.