

A L H

AUG 10 1909
AUG 30 1909

4-683.

MINERAL SURVEY No. 2643.

LOT No.

Arizona Land District.

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

The Twin Buttes Mining & Smelting Company

KNOWN AS THE

Copper Eagle, Copper Butte, Standard Copper, Copper King, Copper Queen, Copper Glance, Copper Bullion, Bullion No. 2

Pima Mining District,

Pima	County,	Arizona
(36	(17 S.	(12 E.
) 1) 18 S.) 12 E.
Section (31	, Township (17 S.	, Range (13 E.
) 6) 18 S.) 13 E.

Surveyed under instructions dated March 8th., 1909.

by William C. Goetz
U. S. Mineral Surveyor.

Claim located See location notices, 19

Survey commenced March 16th., 19 09.

Survey completed March 20th., 19 09.

6-822

Address:

Frank H. Hereford, Attorney,
Tucson, Arizona.

MINERAL SURVEY NO. 2643

Claims	M & B Desc.	Improvements	Loc. Notices
	Pg. 11	Pg. 21	Pg. 7
Bullion No. 2	10	20	6
Copper Bullion	3	14	1/2
Copper Butte	2	14	1
Copper Eagle	9	18	5
Copper Glance	6	15	3
Copper King	7	17	4
Copper Queen	5	15	2
Standard Copper			

Mineral Survey No. 2643.

Feet

Copper Eagle Lode.

Beginning at Cor. No. 1, identical with the S.E. Cor. of the amended location; a x in a granite rock 7 x 12 ins., 28 ins. long, set 21 ins. in ground, chiseled C.E.1-2643, with mound of stone 3 ft. base by 2½ ft. high alongside to N.

The Cor. common to T. 17 and 18 S. R. 12 and 13 E., G. & S. R. B. & M. bears S. 66°09' E. 836 ft. dist.

Thence N. 7° 04' E.

on line 1-2, descending to wash

30. center of wash 6 ft. wide running E.

65. center of wash 3 ft. wide running E.

300. E. E. C., identical with the E. E. C. of the amended location; a x in a granite rock 9 x 14 ins., 24 ins. long, set 19 ins. in ground, with mound of stone 3 ft. base by 3 ft. high alongside to N.

367. road runs E. & W.

391. road runs E. & W.

600. Cor. No. 2, identical with the N.E. Cor. of the amended location; a x in a granite boulder 14 x 15 ins., 28 ins. long, set 22 ins. in ground, chiseled C.E.2-2643, with mound of stone 3 ft. base by 2½ ft. high alongside to N.

The S.E. Cor. of Sec. 36, T. 17 S. R. 12 E., G. & S. R. B. & M. bears S. 36°59'30" E. 1161.5 ft. dist.

Thence S. 88° 59' 30" W.

on line 2-3, over level ground

1468.6 Cor. No. 3, identical with the N.W. Cor. of the amended location; a x in a granite boulder 9 x 15 ins., 24 ins. long, set 19 ins. in ground, chiseled C.E.3-2643, with mound of stone 3 ft. base by 3 ft. high alongside to N.

Thence S. 7° 04' W.

on line 3-4, over level ground

202. road runs E. & W.

300. W. E. C., identical with the W. E. C. of the amended location,

- Feet a x in a granite boulder 12 x 23 ins., 28 ins. long, set 22 ins. in ground, with mound of stone 3 ft. base by 2½ ft. high alongside to N.
- 384. road runs N.E. & S.W.
- 524. road runs E. & W.
- 600. Cor. No. 4, identical with the S.W. Cor. of the amended location; a x in a quartzite boulder 12 x 15 ins., 28 ins. long, set 19 ins. in ground, chiseled C.E.4-2643, with mound of stone 3 ft. base by 3 ft. high alongside to S.E.

Thence N. 88° 59' 30" E.

on line 4-1

- 128. road runs N.W. & S.E.
- 425. enter wash 5 ft. wide running E.
- 590. leave wash 5 ft. wide running E.
- 767. cross last named wash
- 900. again enter said wash
- 1118. leave said wash
- 1468.6 Cor. No. 1, the place of beginning.

Copper Butte Lode.

Beginning at Cor. No. 1, identical with the N.E. Cor. of the amended location, and with Cor. No. 1 of the Copper Eagle lode of this survey. I chiseled same C.B.1-2643. The Cor. to Secs. 1, 6, 31 & 36, Ts. 17 & 18 S., Rs. 12 & 13 E. bears S. 66° 09' E. 836 ft. dist.

Thence S. 7° 04' W.

on line 1-2, ascending N. slope of butte

- 300. E. E. C., identical with the E. E. C. of the amended location; on top of ridge; a x in a granite rock 10 x 16 ins., 24 ins. long, set 17 ins. in ground, with mound of stone 4 ft. base by 3 ft. high alongside to N. Thence down slight descent
- 340.6 intersect the township line between T. 17 & 18 S. at W. 806.5 ft. from the aforesaid township Cor., and E. 1833.5 ft. from the theoretical point for the S. ¼ Sec. Cor. of Sec. 36, T. 17 S. R. 12 E.
- 552. center of wash 2 ft. wide running S.W.
- 575. road runs E. & W.

Feet	
600.	Cor. No. 2, identical with the S.E. Cor. of the amended location; a x in a granite rock 8 x 16 ins., 24 ins. long, set 17 ins. in ground, chiseled C.B.2-2643, with mound of stone 3 ft. base by 3 ft. high alongside to S. The S.W. Cor. of an adobe apartment house 26 x 126 ft. bears N. 81° 35' E. 386.8 ft. dist
	Thence S. 88° 59' 30" W.
	on line 2-3, over level ground
253.	enter road running E. & W.
417.	leave last named road
869.	toe of slope; ascend same
1327.	top of butte
1468.6	Cor. No. 3, identical with the S.W. Cor. of the amended location; a x in a granite boulder 8 x 13 ins., 24 ins. long, set 17 ins. in ground, chiseled C.B.3-2643, with mound of stone 3 ft. base by 3 ft. high alongside to S.W. This Cor. falls on S. slope of saddle between buttes.
	Thence N. 7° 04' E.
	on line 3-4
88.	top of saddle between buttes; descend N. slope
285.2	intersect township line between T. 17 & 18 S. at W. 2271.6 ft. from aforesaid township Cor., and E. 368.4 ft. from the theoretical point for the S. ¼ Sec. Cor. of Sec. 36, T. 17 S. R. 12 E.
300.	W. E. C., identical with the W. E. C. of the amended location; a x in a granite boulder 7 x 12 ins., 24 ins. long, set 19 ins. in ground, with mound of stone 3 ft. base by 3 ft. high alongside to S.
566.	toe of N. slope and center of wash 5 ft. wide running E.
600.	Cor. No. 4, identical with the N.W. Cor. of the amended location and with Cor. No. 4 Copper Eagle lode of this survey. I chiseled same C.B.4-2643.
	Thence N. 88° 59' 30" E.
	on line 4-1, identical with line 4-1 Copper Eagle lode of this survey
1468.6	Cor. No. 1, the place of beginning.

Standard Copper Lode.

Beginning at Cor. No. 1, identical with the S.E. Cor. of the amended location; a x in an andesite boulder 12 x 19 ins., 24 ins. long, set 18 ins. in ground, chiseled S.C.1-2643, with mound of stone 3 ft. base by 3 ft. high alongside to N.E. The aforesaid township Cor. bears N. 86° 47' W. 658.8 ft. dist.

Thence N. 7° 04' E.

on line 1-2

37.3 intersect township line between T. 17 & 18 S. at E. 662.3 ft. from aforesaid township Cor., and W. 1977.7 ft. from the true point for the S. $\frac{1}{4}$ Sec. Cor. of Sec. 31, T. 17 S. R. 13 E.

87. center of wash 6 ft. wide running E.

116. road runs E.

171. center of wash 8 ft. wide running E.

300. E. E. C., identical with the E. E. C. of the amended location; a x in a granite boulder 9 x 15 ins., 33 ins. long, set 25 ins. in ground, with mound of stone 3 ft. base by 3 ft. high alongside to N.E.

600. Cor. No. 2, identical with the N.E. Cor. of the amended location; a x in a limestone boulder 9 x 15 ins., 24 ins. long, set 19 ins. in ground, chiseled S.C.2-2643, with mound of stone 3 ft. base by 3 ft. high alongside to N.E. The aforesaid township Cor. bears S. 52° 36' 30" W. 911.4 ft. dist.

Thence N. 75° 15' 45" W.

on line 2-3, over level ground

278. road runs N. & S.

762.4 intersect range line between R. 12 & 13 E. at N. 0° 26' W. 752.4 ft. from aforesaid township Cor., and S. 0° 26' E. 1881.6 ft. from the W. $\frac{1}{4}$ Sec. Cor. of Sec. 31, T. 17 S. R. 13 E.

1471.4 Cor. No. 3, identical with the N.W. Cor. of the amended location, and with Cor. No. 2 Copper Eagle lode of this survey. I chiseled same S.C.3-2643.

Thence S. 7° 04' W.

on line 3-4, identical with line 1-2 Copper Eagle lode of this

- Feet
survey
300. W. E. C., identical with the W. E. C. of the amended location, and with the E. E. C. Copper Eagle lode of this survey
600. Cor. No. 4, identical with the S.W. Cor. of the amended location, and with Cor. Nos. 1 Copper Eagle and Copper Butte lodes of this survey. I chiseled same S.C.4-2643.

Thence S. 75° 15' 45" E.

on line 4-1, over level ground

- 790.1 intersect range line between R. 12 & 13 E. at N. 0° 26' W. 136.3 ft. from aforesaid township Cor., and S. 0° 26' E. 2497.7 ft. from the W. $\frac{1}{4}$ Sec. Cor. of Sec. 31, T. 17 S. R. 13 E.
1055. road runs N.E. & S.W.
1290. center of wash 6 ft. wide running N.E.
- 1326.1 intersect township line between T. 17 & 18 S. at E. 517.2 ft. from aforesaid township Cor., and W. 2122.8 ft. from the theoretical point for the S. $\frac{1}{4}$ Sec. Cor. of Sec. 31, T. 17 S. R. 13 E.
- 1471.4 Cor. No. 1, the place of beginning.

Copper King Lode.

Beginning at Cor. No. 1, identical with the N.E. Cor. of the amended location, and with Cor. No. 1 Standard Copper lode of this survey. I chiseled same C.K.1-2643. The Cor. to Secs. 1, 6, 31 & 36, Ts. 17 & 18 S., Rs. 12 & 13 E.

Thence S. 7° 04' W. *See on 86° 47' W. 608.8 ft.*

on line 1-2, ascending N. slope of butte

- 103.8 intersect main track of Twin Buttes R. R. at N. 79° 17' E. 591.8 ft. from its terminus.
300. E. E. C., identical with the E. E. C. of the amended location; a x in a quartzite boulder 19 x 20 ins., 28 ins. long, set 25 ins. in ore dump, with mound of stone 3 ft. base by 3 ft. high alongside to N.
600. Cor. No. 2, identical with the S.E. Cor. of the amended location; a x in a limestone rock 9 x 12 ins., 24 ins. long, set 15 ins. to bed rock, chiseled C.K.2-2643, with mound of stone 3 ft. base by 2½ ft. high alongside to S. This Cor. falls on top of ridge.

Thence N. 75° 15' 45" W.

on line 2-3, descending along ridge

- 603.8 intersect range line between R. 12 & 13 E. at S. 478.8 ft. from
aforesaid township Cor., and N. 2161.2 ft. from the theoretical point
for the E. $\frac{1}{4}$ Sec. Cor. of Sec. 1, T. 18 S. R. 12 E.
680. toe of ridge
- 805.4 intersect S.E. side of adobe kitchen
1115. road runs N.E. & S.W.
1387. center of wash 3 ft. wide running S.E.
- 1471.4 Cor. No. 3, identical with the S.W. Cor. of the amended location;
and with Cor. No. 2 Copper Butte lode of this survey. I chiseled
same C.K.3-2643.

Thence N. 7° 04' E.

- 259.4 on line 3-4, identical with line 1-2 Copper Butte lode of this survey
intersect the township line between T. 17 & 18 S. at W. 806.5 ft. from the
aforesaid township Cor., and E. 1833.5 ft. from the theoretical point for the S. $\frac{1}{4}$
Sec. Cor. of Sec. 36, T. 17 S. R. 12 E.
300. W. E. C., identical with the W. E. C. of the amended location,
and with the E. E. C. Copper Butte lode of this survey
600. Cor. No. 4, identical with the N.W. Cor. of the amended location,
and with Cor. Nos. 1 Copper Eagle and Copper Butte, and Cor. No.
4 Standard Copper lodes of this survey. I chiseled same C.K.4-
2643.
- 790.1 On line 4-1, identical with line 4-1 Standard Copper lode of this sur.
Intersect range line between Rs. 12 and 13 E., at N. 0° 26'
W. 136.3 ft. from the aforesaid township Cor., and S. 0° 26' E.
2497.7 ft. from the W. $\frac{1}{4}$ Sec. Cor. of Sec. 31, T. 17 S., R. 13 E.
- 1326.10 Intersect township line bet. Ts. 17 & 18 S., at E. 517.2 ft. from
aforesaid Tp. Cor. and W. 2122.8 ft. from the theoretical point for
the S. $\frac{1}{4}$ Sec. Cor. of Sec. 31, T. 17 S., R. 13 E.
- 1471.4 Cor. No. 1, the place of beginning.

Copper Queen Lode.

Beginning at Cor. No. 1, identical with the N.W. Cor. of the
amended location, and with Cor. Nos. 1 Standard Copper and Copper
King lodes of this survey. I chiseled same C.Q.1-2643. The Cor. to
Secs. 1, 6, 31 & 36, Ts. 17 & 18 S., Rs. 12 & 13 E. bears N. 86° 47' W.
658.8 ft. dist.

Thence S. 7° 04' W.

on line 1-2, identical with line 1-2 Copper King lode of this sur-
vey

300. W. E. C., identical with the W. E. C. of the amended location and

Feet	with the E. E. C. Copper King lode of this survey
600.	Cor. No. 2, identical with the S.W. Cor. of the amended location and with Cor., No. 2 Copper King lode of this survey. I chiseled same C.Q.2-2643.
	Thence S. 65° 58' 15" E.
	on line 2-3, ascending ridge
195.	top of butte
589.	cross 1 ft. wash between ridges on N. slope
776.	top of ridge
1245.	road runs N. & E.
1363.1	intersect W. leg of wye of Twin Buttes R. R.
1419.8	intersect S. leg of wye of Twin Buttes R. R.
1475.9	Cor. No. 3, identical with the S.E. Cor. of the amended location, and situated in saddle between buttes. A x in a limestone boulder 9 x 19 ins., 42 ins. long, set 33 ins. in ground, chiseled C.Q.3-2643, with mound of stone 3 ft. base by 3 ft. high alongside to S. The Southerly point of switch of Twin Buttes R.R. bears S. 57° 37' 45" W. 253.5 ft. dist.
	Thence N. 7° 04' E.
	on line 3-4
80.7	intersect S. leg of wye of Twin Buttes R.R.
300.	E. E. C., identical with the E. E. C. of the amended location; a x in a granite boulder 12 x 12 ins., 24 ins. long, set 17 ins. in ground, with mound of stone 3 ft. base by 3 ft. high alongside to N.
413.9	intersect N. leg of wye of Twin Buttes R.R.
600.	Cor. No. 4, identical with the N.E. Cor. of the amended location; a x in a porphyritic boulder 7 x 9 ins., 24 ins. long, set 18 ins. in ground, chiseled C.Q.4-2643, with mound of stone 3 ft. base by 2½ ft. high alongside to N., whence W. point of switch of aforesaid wye bears N. 72° 29' W. 212.6 ft. dist., and E. point of switch of aforesaid wye bears S. 59° 39' E. 583. ft. dist.
	Thence N. 65° 58' 15" W.

Feet on line 4-1, along N. slope of butte

236.2 intersect main line of Twin Buttes R.R., on curve

270. road runs N. & S.

345. center of wash 3 ft. wide running N.E.

1302.5 intersect main track of Twin Buttes R.R. at N. $79^{\circ} 17' E.$ 766. ft. from its terminus

1475.9 Cor. No. 1, the place of beginning.

Copper Glance Lode.

Beginning at Cor. No. 1, identical with the N.W. Cor. of the amended location, and with Cor. No. 4 Copper Queen lode of this survey. I chiseled same C.G.1-2643. The aforesaid township Cor. bears N. $72^{\circ} 21' 20'' W.$ 2104.7 ft. dist.

Thence S. $59^{\circ} 14' 15'' E.$

on line 1-2, ascending N. slope of butte

289. center of wash 3 ft. wide running N.E.

577.3 intersect main line of Twin Buttes R.R. running E. & W.

1399.8 Cor. No. 2, identical with the N.E. Cor. of the amended location, on N.E. slope of butte. A x in a garniferous quartzite boulder 9 x 12 ins., 24 ins. long, set 18 ins. in ground, chiseled C.G.2-2643, with mound of stone 3 ft. base by 2 ft. high alongside to S.W.

Thence S. $7^{\circ} 04' W.$

on line 2-3, ascending N.E. slope of butte

300. E. E. C., identical with the E. E. C. of the amended location; a x in a limestone rock 10 x 10 ins., 24 ins. long, set 15 ins. to bed rock, with mound of stone 3 ft. base by 3 ft. high alongside to S.

320. cross top of ridge running E.

461. center of shaft 5 x 6 ft., 14 ft. deep

600. Cor. No. 3, identical with the S.E. Cor. of the amended location, on S. slope of butte. A x in a limestone boulder 7 x 9 ins., 24 ins. long, set 16 ins. in ground, chiseled C.G.3-2643, with mound of stone 3 ft. base by 3 ft. high alongside to S.

Thence N. $59^{\circ} 14' 15'' W.$

- Feet
 1199. on line 3-4, along S. slope of butte
 road runs N.E. & W.
- 1399.8 Cor. No. 4, identical with the S.W. Cor. of the amended loca-
 tion, and with Cor. No. 3 Copper Queen lode of this survey.
 I chiseled same C.G.4-2643.
- Thence N. 7° 04' E.
300. on line 4-1, identical with line 3-4 Copper Queen lode of
 this survey.
300. W. E. C., identical with the W. E. C. of the amended location,
 and with the E. E. C. Copper Queen lode of this survey.
600. Cor. No. 1, the place of beginning.
- Copper Bullion Lode.
- Beginning at Cor. No.1, identical with the N.W. Cor. of
 the amended location, and with Cor. No. 2 Copper Glance lode
 of this survey. I chiseled same C.B.1-2643. The Cor. to Secs.
 1, 6, 31 and 36, Ts. 17 & 18 S., Rs. 12 & 13 E., bears N. 67° 07'
 20" W. 3482.6 ft.
- Thence S. 61° 26' 15" E.
430. on line 1-2, descending N.E. slope of butte
 toe of slope; thence over level ground
- 1461.9 Cor. No. 2, identical with the N.E. Cor. of the amended loca-
 tion; a x in a porphyritic stone 7 x 10 ins., 25 ins. long,
 set 21 ins. in ground, chiseled C.B.2-2643, with mound of stone
 3 ft. base by 2½ ft. high alongside to N.
- Thence S. 7° 04' W.
300. on line 2-3, over level ground
 E. E. C., identical with the E. E. C. of the amended location;
 a x in a porphyritic stone 6 x 8 ins., 25 ins. long, set 20
 ins. in ground, with mound of stone 3 ft. base by 2 ft. high
 alongside to S.
600. Cor. No. 3, identical with the S.E. Cor. of the amended loca-
 tion; a x in a granite boulder 9 x 12 ins., 24 ins. long, set
 19 ins. in ground, chiseled C.B.3-2643, with mound of stone 3
 ft. base by 2½ ft. high alongside to E. This Cor. falls on
 flat 10 ft. N. of N. bank of wash 75 ft. wide running E.

Feet

(11)

- Thence N. $61^{\circ} 26' 15''$ W. 11
- on line 3-4, over level ground
872. toe of E. slope of butte; ascend said slope
- 1461.9 Cor. No. 4, identical with the S.W. Cor. of the amended location, and with Cor. No. 3 Copper Glance lode of this survey. I chiseled same C.B.4-2643.
- Thence N. $7^{\circ} 04'$ E.
- on line 4-1, identical with line 2-3 Copper Glance lode of this survey
300. W. E. C., identical with the W. E. C. of the amended location, and with the E. E. C. Copper Glance lode of this survey
600. Cor. No. 1, the place of beginning.
- Bullion No. 2 Lode
- Beginning at Cor. No. 1, identical with the S.W. Cor. of the amended location, and with Cor. No. 1 Copper Bullion lode of this survey and Cor. No. 2 Copper Glance lode of this survey
- I chiseled same B.No.2,1-2643. The Cor. to Secs. 1, 6, 31 and 36, Ts. 17 & 18 S., Rs. 13 and 14 E. bears N. $67^{\circ} 07' 20''$ W. 3482.60 ft. dist.
- Thence S. $61^{\circ} 26' 15''$ E.
- on line 1-2, identical with line 1-2 Copper Bullion lode of this survey
- 1461.9 Cor. No. 2, identical with the S.E. Cor. of the amended location, and with Cor. No. 2 Copper Bullion lode of this survey
- I chiseled same B.No.2,2-2643.
- Thence N. $7^{\circ} 04'$ E.
- on line 2-3, over level ground
300. E. E. C., identical with the E. E. C. of the amended location; a x in a porphyritic stone 7 x 10 ins., 25 ins. long, set 20 ins. in ground, with mound of stone $3\frac{1}{2}$ ft. base by 3 ft. high alongside to W.
543. enter arroyo 10 ft. deep running E.
600. Cor. No. 3, on S. edge of wash 3 ft. wide, at bottom of last named arroyo. A x in a granite boulder 14 x 21 ins., 35 ins. long, set 30 ins. in ground, chiseled B.No.2,3-2643, with mound

(10)

- Feet of stone 4 ft. base by 3½ ft. high alongside to W.
- Thence N. 61° 26' 15" W.
- on line 3-4, along bottom of last named arroyo
- 160. leave arroyo
- 1230. center of wash 3 ft. wide running E.
- 1461.9 Cor. No. 4, identical with the N.W. Cor. of the amended location; a x in a granite boulder 8 x 10 ins., 24 ins. long, set 19 ins. in ground, chiseled B.No.2,4-2643, with mound of stone 3 ft. base by 2½ ft. high alongside to N.E. A railroad spike driven into the track on the center line of the Twin Buttes R.R. bears N. 7° 04' E. 63.4 ft. dist. A hole 1 in. in diameter by ½ in. deep chiseled into the center of the top of the S. wall of a concrete culvert on said Twin Buttes R.R. bears N. 62° 48' E. 252.6 ft. dist.
- Thence S. 7° 04' W.
- on line 4-1, over slightly ascending ground
- 300. W. E. C., identical with the W. E. C. of the amended location, at toe of N. slope of butte. A x in a garniferous boulder 6 x 12 ins., 30 ins. long, set 21 ins. in ground, with mound of stone 3 ft. base by 2½ ft. high alongside to S. Thence ascending N. slope of butte
- 600. Cor. No. 1, the place of beginning.

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Lode Lines.

As near as can be ascertained from surface indications and present development, the veins of the several locations embraced in this claim, extend from their respective discovery points as follows:

Copper Eagle Lode
N. 88°59'30" E. 376. ft. and S. 88°59'30"W. 1092.6 ft.

Copper Butte Lode
N. 88°59'30"E. 1204.6 ft. and S. 88°59'30"W. 264. ft.

Standard Copper Lode
N. 75°15'45"W. 173. ft. and S. 75°15'45"E. 1298.4 ft.

Copper King Lode.

S. 75°15'45" E. 169. ft. and N. 75°15'45" W. 1302.4 ft.

Copper Queen Lode

N. 65°58'15" W. 101. ft. and S. 65°58'15" E. 1374.9 ft.

Copper Glance Lode

N. 59° 14' 15" W. 1300 ft., and S. 59° 14' 15" E. 1099.8 ft.

Copper Bullion Lode

N. 61°26'15" W. 385. ft. and S. 61°26'15" E. 1076.9 ft.

Bullion No. 2 Lode

N. 61°26'15" W. 169. ft. and S. 61°26'15" E. 1292.9 ft.

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Areas.

Acres

Total area Copper Eagle lode	20.028
" " Copper Butte lode	20.028
" " Standard Copper lode	20.086
" " Copper King lode	20.086
" " Copper Queen lode	19.445
" " Copper Glance lode	17.655
" " Copper Bullion lode	18.736
" " Bullion No. 2 lode	18.736
Total and net area of this claim	154.800

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Location.

This survey is located partly in each of the following described 1/4 Secs:

- S. E. 1/4 Sec. 36, T. 17 S. R. 12 E. (
- N. E. 1/4 Sec. 1, T. 18 S. R. 12 E. (
- S. W. 1/4 Sec. 31, T. 17 S. R. 13 E. (G. & S. R. B. & M. In Pima
- N. W. 1/4 Sec. 6, T. 18 S. R. 13 E. (Mining District, Pima Cour-
- N. E. 1/4 Sec. 6, T. 18 S. R. 13 E. (ty, Arizona.

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Adjoining Claims.

This survey is adjoined on the N. by the Copper Eagle No. 2 and Standard Copper No. 2 lodes, unsurveyed, and claimed by The Twin Buttes Mining and Smelting Co.; the Pride and Oregon lodes, unsurveyed, and claimed by the Hugh Canny Estate; and by vacant land. On the E. by vacant land. On the S. by the Atlantic and Klondike lodes, unsurveyed, and claimed by the Hugh Canny Estate; the Minnehaha, Minnetonka and Glassblock, lodes, unsurveyed, the names of claimants being unknown. On the W. by an unsurveyed claim, name unknown, owned by the Hugh Canny Estate; and by vacant land.

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Expenditure of Five Hundred Dollars.

I hereby certify that the value of the labor and improvements made upon, and for the benefit 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 as follows:

Copper Eagle Lode

From the E. E. C.

No. 1 - The discovery shaft 4 x 6 ft., 10 ft. deep, bears S. 88° 59' 30" W. 376. ft. dist.

Value \$100.00

From the W. E. C.

No. 2 - A shaft 4 x 6 ft., 10 ft. deep, bears S. 70° 28' E, 537. ft. dist.

Value \$100.00

To be credited from No. 4 of the Copper

King lode of this survey a 1/5 interest

Value \$1348.00

Total value \$1548.00

Copper Butte Lode.

From the W. E. C.

No. 1 - The discovery shaft 4 x 6 ft., 10 ft. deep, bears N. 88° 59' 30" E. 264. ft. dist.

Value \$100.00

No. 2 - Ashaft 4 x 6 ft., 10 ft. deep, bears S. 76° 32' E. 123. ft. dist.	Value \$100.00
No. 3 - A shaft 4 x 6 ft., 10 ft. deep, bears S. 77° 16' E. 379. ft. dist.	Value \$100.00
No. 4 - A shaft 4 x 6 ft., 10 ft. deep, bears N. 80° 38' E. 689. ft. dist.	Value \$100.00
No. 5 - A shaft 4 x 6 ft., 25 ft. deep, bears N. 81° 55' E. 1066. ft. dist.	Value \$250.00
No. 6 - A shaft 4 x 6 ft., 38 ft. deep, bears N. 81° 55' E. 1089. ft. dist.	Value \$445.00
To be credited from No. 4 of the Copper King lode of this survey a 1/5 interest	Value <u>\$1348.00</u>
	Total value \$2443.00

Standard Copper Lode.

From the W. E. C.

No. 1 - The discovery shaft 4 x 6 ft., 10 ft. deep, bears S. 75° 15' 45" E. 173. ft. dist.	Value \$100.00
No. 2 - A shaft 4 x 6 ft., 10 ft. deep, bears S. 51° 11' E. 204. ft. dist.	Value \$100.00
To be credited from No. 4 of the Copper King lode of this survey a 1/5 interest	Value <u>\$1348.00</u>
	Total value \$1548.00

Copper King Lode.

From the E. E. C.

No. 1 - The discovery shaft 4 x 6 ft., 10 ft. deep, bears N. 75° 15' 45" W. 169. ft. dist.	Value \$100.00
No. 2 - A shaft 4 x 6 ft., 10 ft. deep, bears S. 89° 54' W. 234. ft. dist.	Value \$100.00

(16)

From a point on line 1-2, N. 7° 04' E. 247. ft. dist. from Cor. No. 2:

No. 3 - The mouth of an open cut 4 ft. wide, 7 ft. face, 10 ft long, bears S. 81° 14' W. 269. ft. dist.

Value \$40.00

No. 4 - The main shaft 5 x 6 ft., 362. ft. deep, inclining to the S. at an angle of 5° from the vertical, bears N. 53° 56' W 21.8 ft. dist.

Total value \$6740.00

Less credits for Copper Eagle, Copper Butte, Standard Copper and Copper Queen lodes of this survey.

\$5392.00

Value of 1/5 interest \$1348.00

Total value \$1588.00

Note: - This shaft leads to underground workings described as follows:

At a depth of 125 ft. from the top of this shaft, a drift 4 x 6 ft. extends a little South of East 126 ft. From this drift at a distance of 20 ft. from the shaft, a stope and cut 86 ft. long along line of drift and 4 ft. wide on the average, rises to the surface, a distance of 125 ft. Again on last named drift, at a distance of 50 ft. from the shaft a winze 5 x 5 ft sinks through the 180 ft. level to the 250 ft. level. From the main shaft at a depth of 180 ft. a drift 4 x 6 ft. extends a little North of West 60 ft. From the main shaft at a depth of 250 ft. a drift 4 x 6 ft. extends a little North of West 62 ft. From this drift, at a distance of 35 ft. from the main shaft, a cross cut 4 x 6 ft. extends Northerly 30 ft. Also on this drift, at a distance of 42 ft. from the main shaft, a winze 5 x 5 ft. sinks to a depth of 30 ft. From the main shaft at a depth of 350 ft. a drift 4 x 6 ft. extends a little North of West 25 ft. Another drift, 4 x 6 ft. extends a little South of East 42 ft.

The system of workings above described, together with the physical facts existing on the surface of these lodes; such as the topography as depicted on the map herewith, the general slope of the country, which is to the S.E., the indications of outcroppings and indications in the numerous prospect shafts

on the various lodes, the location of the Railroad and the advantageous shipping facilities resulting therefrom, are, in my opinion, a practical and economical scheme of mining which, now, and when extended as contemplated for the future, benefits the several lodes of this claim enumerated below, and the cost of the same is therefore proportionately divided among them as a common improvement, i.e. Copper Eagle, Copper Butte, Standard Copper, Copper Queen and Copper King. I do not consider that the remaining lodes of this claim will be, or have been developed from these workings as at present existing or contemplated for the future, as they are topographically too low, and furthermore have a scheme of existing workings executed for their separate development. In the valuation of these workings the value of the shaft only is given, and not the value of the drifts, cross cuts, etc.

Copper Queen Lode.

From the W. E. C.

No. 1 - The discovery shaft 4 x 6 ft., 34 ft. deep, bears S. 65° 58' 15" E. 101. ft. dist.

Value, see note following

No. 2 - A shaft 4 x 6 ft., 74 ft. deep, bears S. 65° 58' E. 78 ft. dist.

Value, see note following

Note:- Shafts Nos. 1 and 2 last mentioned are connected by a drift 4 x 6 ft., which extends from the bottom of shaft No. 1, 23 ft. to shaft No. 2, and in the opposite direction from shaft No. 1, a distance of 22 ft.

Value \$1710.00

From a point on line 4-1, S., 65° 58' 15" E., 173.4 ft. from Cor. No. 1:

No. 3 - A timbered shaft 6 x 8 ft., 48 ft. deep, bears S. 54° 01' E. 314.6 ft. dist.

Value \$720.00

No. 4 - The center of an open cut 68 ft. mouth, 8 ft. face,

42 ft. long, bears S. 56° 06' E. 398.5 ft. dist.

Value \$2500.00

To be credited from No. 4 of the Copper King lode
of this survey a 1/5 interest

Value \$1348.00

Total value \$6278.00

Copper Glance Lode.

From the W. E. C.

No. 1 - The discovery shaft 4 x 6 ft., 10 ft. deep, bears S. 59° 14' 15" E. 300 ft. dist. according to affidavit herewith.

No. 2 - A shaft 4 x 6 ft., 415. ft. deep, inclining to the N. at an angle of 10° from the vertical, bears S. 67° 45' E. 383. ft. dist. Total value \$8300.00

Less credits for Copper Bullion and Bullion

No. 2 lodes of this survey \$5533.34

Value of 1/3 interest \$2766.66

Note:- This shaft leads to underground workings described as follows:

At a depth of 62 ft. from the top a drift 4 x 6 ft. extends S.Easterly 87 ft. From this drift at a distance of 63 ft.

from the shaft, a cross cut 4 x 6 extends N.Easterly 70 ft., and shaft No. 3, hereinafter described, rises to the surface.

At a depth of 214 ft. a drift 4 x 6 extends Easterly 27.5 ft. to last named shaft No. 3. From the last named depth of 214

ft. in shaft No. 2, a cross cut 4 x 6 ft. extends South 20 ft.

At a depth of 80 ft. a drift 4 x 6 ft. extends Easterly 10 ft.

At a depth of 300 ft. a drift 4 x 6 ft. extends S.Westerly 80 ft. At a depth of 400 ft. a drift 4 x 6 ft. extends S.Westerly 163 ft.

The system of workings above described, together with the physical facts existing on the surface of these lodes; such as the topography depicted on the map herewith, the general slope of the country, which is to the S.E., the indications in the numerous prospect shafts on the various lodes and the surface outcroppings, the location of the Railroad and the shipping facilities resulting therefrom, are, in my opinion, a practical

and economical system of mining which now, and when extended as contemplated for the future, benefits the several lodes of this claim enumerated below, and the cost of the same is therefore proportionately divided among them as a common improvement, i.e. Copper Glance, Copper Bullion and Bullion No. 2.

I do not consider that the other five lodes of this claim have, or will in the future receive any benefit from these workings as above described, as they are topographically too high, and already have a separate system of workings for their development as hereinbefore described.

Under shaft No. 2 the value of the shaft only is given, and not the value of the various drifts and cross cuts.

No. 3 - A shaft 4 x 6 ft., 172 ft. deep, bears S. 69° 38' E. 459 ft. dist.

Value \$2580.00

Note:- This shaft inclines at an angle of 18° from the vertical to the W. for a depth of 70 ft. from the top. It then extends vertically 102 ft. farther, to a drift 4 x 6 ft. which drift extends Westerly 17 ft. to a winze 5 x 5 ft. This winze inclines to the W. and sinks 41 ft. to a drift 4 x 6 ft. which extends Westerly 27.5 ft. to a point in shaft No. 2, as given in the description thereof. This shaft (No. 3) as described above, is not considered by me a common improvement, altho connected with shaft No. 1.

No. 4 - A shaft 4 x 6 ft., 10 ft. deep, bears S. 41° 31' E. 248 ft. dist.

Value \$100.00

No. 5 - A shaft 4 x 6 ft., 10 ft. deep, bears S. 57° 11' E. 906 ft. dist.

Value \$100.00

No. 6 - A shaft 4 x 6 ft., 10 ft. deep, bears S. 64° 10' E. 606 ft. dist.

Value \$100.00

No. 7 - A shaft 4 x 6 ft., 10 ft. deep, bears S. 64° 10' E. 953 ft. dist.

Value \$100.00

- No. 8 - A shaft 4 x 6 ft., 10 ft. deep, bears S. 66° 49' E.
1122 ft. dist.
Value \$100.00
- No. 9 - A shaft 4 x 6 ft., 10 ft. deep, bears S. 72° 32' E.
647 ft. dist.
Value \$100.00
- No. 10 - A shaft 4 x 6 ft., 10 ft. deep, bears S. 72° 38' E.
529 ft. dist.
Value \$100.00
- No. 11 - The mouth of an open cut 5 ft. wide, 10 ft. face, 20
ft. long, bears S. 74° 54' E. 584 ft. dist.
Value \$120.00
- Total value \$6166.66

Copper Bullion Lode.

- From a point S. 50° 39' E. 352 ft. dist. from the W. E. C.:
- No. 1 - The discovery shaft 4 x 6 ft., 10 ft. deep, bears
N. 59° 21' E. 76.50 ft. dist.
Value \$100.00
- No. 2 - A shaft 4 x 6 ft., 10 ft. deep, bears S. 56° 44' E.
365 ft. dist.
Value \$100.00
- No. 3 - A shaft 4 x 6 ft., 10 ft. deep, bears S. 44° 26' E.
358 ft. dist.
Value \$100.00
- No. 4 - A shaft 4 x 6 ft., 12 ft. deep, bears S. 39° 36' E.
353 ft. dist.
Value \$120.00
- From the W. E. C.
- No. 5 - A shaft 4 x 6 ft., 23 ft. deep on the vertical, thence
73 ft. deeper on an incline to the N. of 15° from the vertical,
(a total depth of 96 ft.) bears S. 50° 39' E. 338 ft. dist.
Value \$1190.00
- From Cor. No. 4
- No. 6 - A shaft 4 x 6 ft., 14 ft. deep, bears N. 7° 09' E.
139 ft. dist.
Value \$140.00

To be credited from No. 2 of the Copper
 Glance lode of this survey a 1/3 interest Value \$2766.67
 Total value \$4516.67

Bullien No. 2 Lode.

From the W. E. C.

No. 1 - The discovery shaft 4 x 6 ft., 12 ft. deep, bears S.
 61° 26' 15" E. 169 ft. dist.
 Value \$120.00

To be credited from No. 2 of the Copper Glance
 lode of this survey a 1/3 interest Value \$2766.67
 Total value \$2886.67

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 Other Improvements.

Standard Copper Lode.

A well 4 x 6 ft., 100 ft. deep, bears from Cor. No. 1 of
 this lode N. 45° 26' W. 835 ft. dist.

The S.E. Cor. of an adobe and frame corral, with an adobe
 house 16 x 16 ft. adjoining the W. side, bears from the E. E.
 C. of this lode S. 52° 12' W. 74 ft. dist. The corral is 60
 ft. wide by 120 ft. long.

The center of the S. end of a timber bridge 10 ft. wide by 63
 ft. long, bears N. 55° 59' E. 491 ft. dist. from a point on
 the lode line of the Copper King lode, which point bears N.
 75° 15' 45" W. 720 ft. dist. from the E. E. C. thereof.

Copper King Lode.

The S.E. Cor. of a frame power house 24 x 32 ft. bears N.
 26° 15' W. 13 ft. dist. from a point on line 1-2, which point
 bears N. 7° 04' E. 247 ft. dist. from Cor. No. 2.

From a point on the center line of this lode, which point
 bears N. 75° 15' 45" W. 720 ft. dist. from the E. E. C. thereof,
 the following improvements were located:

The N.W. Cor. of a one story adobe apartment house 26 x
 126 ft. bears S. 85° 20' W. 366 ft. dist.

The N.E. Cor. of a one story frame boarding house 32 x 66 ft., with an adobe kitchen 18 x 26 ft. adjoining the S.W. side, bears S. 17° 42' W. 264.5 ft. dist.

The S.W. Cor. of a one story adobe bunk house 26 x 50 ft. bears S. 5° 02' E. 255.4 ft. dist.

The N.W. Cor. of a one story adobe assay office 18 x 26 ft. bears S. 22° 19' E. 204.4 ft. dist.

The N.W. Cor. of a one story frame office building 16 x 24 ft. bears S. 79° 36' E. 182.7 ft. dist.

The N.W. Cor. of a frame tool shed 12 x 16 ft. bears N. 63° 39' E. 171.3 ft. dist.

The N.W. Cor. of an iron round house of the Twin Buttes Railroad Co. bears S. 51° 36' E. 174.8 ft. dist.

Adjoining the office building on the S. is an adobe and iron depot and freight house of the Twin Buttes Railroad Co.

Adjoining the boarding house on the N.W. is an adobe and frame store 40 x 50 ft.

Copper Glance Lode.

From the W. E. C.

The N.W. Cor. of a frame power house 24 x 32 ft. bears S. 63° 39' E. 382 ft. dist.

The N.W. Cor. of a frame blacksmith shop 12½ x 16 ft. bears S. 68° 22' E. 358 ft. dist.

Copper Bullion Lode.

From the E. E. C.

A well 4 x 6 ft., 95 ft. deep, bears S. 35° 57' W. 181 ft. dist.

Note:- All improvements described under "Other Improvements", belong to the claimant herein, except those mentioned as belonging to the Twin Buttes Railroad

Instrument.

This survey was made with a Seelig & Kandler Engineers Transit graduated to 30 seconds, and all courses were deflect-

ed from a true meridian as determined by direct Polaris observation. The distances were measured with a "Lufkin" 300 ft. steel tape, together with mercury plummets.

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Report.

The Cor. common to T. 17 & 18 S. R. 12 & 13 E., G. & S. R. B. & M. is an iron pipe $1\frac{1}{2}$ ins. diameter by 29 ins. long, driven 24 ins. into the ground, and surrounded by a mound of stone 3 ft. base by 1 ft. high. This Cor. was set by me in place of the then existing and badly decayed Cor., which was a pine post 3 x 4 ins., set 10 ins. above ground, surrounded by a mound of stone 2 ft. base by 1 ft. high, and scribed "Twp. Cor." Said "Twp. Cor." was set as the Cor. common to T. 17 & 18 S. R. 12 & 13 E. in March 1905 by Phillip Contzen, then U. S. Deputy Land Surveyor, for the Twin Buttes Railroad survey, on which I was then engaged.

The W. $\frac{1}{4}$ Sec. Cor. of Sec. 31, T. 17 S. R. 13 E. is a stick 2 ft. long set in a mound of stone $1\frac{1}{2}$ ft. base by $\frac{1}{2}$ ft. high

The township line was retraced from the township Cor. E. 2 miles and W. 2 miles in search of Cors. of the public survey, but none were found. The range line was retraced from the township Cor. S. 2 miles in search of Cors. of the public survey, but none were found.

The $\frac{1}{4}$ Sec. Cors. South, East and West of the township Cor. were theoretically located by calculation, by adopting the courses and distances of the official field notes of the public land survey for these Cors.

Improvements Nos. 1, 2, 3 and 4 on the Copper Bullion lode are located from points not on the lode or boundary lines thereof, because a greater degree of accuracy was obtained by adopting the locating points as described herein.

The side center monuments described in the location of the Copper King and Copper Glance lodes could not be found upon a thorough search being made for the same.

The differences in the location of the discovery shafts, between this survey and the location, are due to errors in the location.

The great size and permanency of the monuments established for this survey, are considered by me quite superior to any available bearings not enumerated herein.

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Variation.

The variation at all corners was 13° E.

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William C. Gatz
U. S. Mineral Surveyor.

Tucson, Arizona, August 6, 1909.

AUG 11 1909

Territory of Arizona,)
County of Pima.) ss.

Arthur M. Pogue and James A. Sheridan

being duly sworn, each for himself and not one for the other, deposes and says; that he is familiar with the ground covered by the Copper Glance Mining claim belonging to the Twin Buttes Mining Company, a corporation, situated in the Pima Mining District, County of Pima, Territory of Arizona; that within 300 feet of the west end ^{center} of said Copper Glance mining claim, there was sunk a discovery shaft at least ten feet deep, in which there was disclosed mineral in place; that since the sinking of said discovery shaft, as aforesaid, there has been dumped upon said Copper Glance mining claim, a great quantity of rock and quartz, completely covering said discovery shaft, as aforesaid, so that the same cannot be gotten at or disclosed without said rock, quartz and waste being removed therefrom, which would entail considerable expense and trouble; that this deponent has been shown the amended location notice of the said Copper Glance mining claim upon which is marked the location of the said discovery shaft and the said amended location, this deponent believes in the true location of the said discovery shaft as sunk upon said mining claim.

Arthur M. Pogue

James A. Sheridan

Subscribed and sworn to before me this 10th day of August,

1909. My Commission expires Jan 30 1911

James D. Duncanson
Notary Public.

FINAL OATHS FOR SURVEYS.

LIST OF NAMES.

A list of the names of the individuals employed by William C. Goetz

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 Twin Buttes Mining & Smelting Company

known as the Copper Eagle, Copper Butte, Standard Copper, Copper King, Copper Queen, Copper Glance, Copper Bullion, Bullion No. 2.

and showing the respective capacities in which they acted.

William W. Logan, Chairman.

Manuel A. Martinez, Chairman.

_____, Axman.

_____, Flagman.

FINAL OATHS OF ASSISTANTS.

We, William W. Logan

and Manuel A. Martinez, do solemnly swear that we assisted William C.

Goetz

, United States Mineral Surveyor, in marking the corners and surveying

the boundaries of the mining claim of The Twin Buttes Mining & Smelting Company

known as the Copper Eagle, Copper Butte, Standard Copper, Copper King, Copper Queen, Copper Glance, Copper Bullion, Bullion No. 2.

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

William W. Logan, Chairman.

Manuel A. Martinez, Chairman.

_____, Axman.

_____, Flagman.

Subscribed and sworn to by the above-named persons before me this 9th

day of August, 1907

my com. expires
Jan 30, 1911

James D. ...
Notary Public

FINAL OATH OF U. S. MINERAL SURVEYOR.

I, William C. Goetz, U. S. Mineral Surveyor,
do solemnly swear that, in pursuance of instructions received from the United States
Surveyor General for Arizona, dated
March 8th. 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 Twin Buttes Mining & Smelting Company
, known as the
Copper Eagle, Copper Butte, Standard Copper, Copper King, Copper,
Queen, Copper Glance, Copper Bullion, Bullion No. 2.
situate in Pima Mining District,
Pima County, Arizona, in Section 8
35 Township No. 17 S., Range No. 13 E., G. & S. R. B. & M.,
31 and designated as Survey No. 2643.
6
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.

William C. Goetz
U. S. Mineral Surveyor

Subscribed and sworn to by the said William C. Goetz
U. S. Mineral Surveyor, before me James D. Sweeney
a Notary Public this 9th
day of August, 1909
My Com. expires
Jan. 30. 1911
James D. Sweeney
Notary Public.

Affidavit of Five Hundred Dollars Improvements.

We, William W. Logan and Manuel A. Martinez

of lawful age, being first duly sworn according to law, depose and say: That we are

acquainted with the (Copper Eagle, Copper Butte, Standard Cop-
per, Copper King, Copper Queen, Copper
(Glance, Copper Bullion, Bullion No.2) *(mining claim,*

situate in Pima Mining district, Pima County,

Arizona Territory, for which The Twin Buttes Mining & 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 grantors exceed Five Hundred Dollars in value, and further that we are not personally interested in said mine.

William W. Logan

Manuel A. Martinez

TERRITORY OF ARIZONA, }
County of Pima } ss:

Sworn to and subscribed before me, this 9th

day of August, 1909



*My com. expires
Jan 30 1911.*

James Dunscomb
Notary Public.

A MENDED
NOTICE OF MINING LOCATION
QUARTZ CLAIM.

TO ALL WHOM IT MAY CONCERN:

This Mining Claim, the name of which is the COPPER EAGLE 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 Twin Buttes Mining and Smelting Company, a corporation organized under the laws of the Territory of Arizona, the undersigned, on the 21st day of January, 1909,

The length of this claim is 1500 feet, and it claims 1150 feet in a westerly direction and 350 feet in an easterly direction from the center of the discovery shaft, at which this notice is posted, lengthwise of the claim, together with 300 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 easterly to the westerly.

The claim is situated and located in the Pima Mining District, in Pima County, in the Territory of Arizona, about one mile in a southwesterly direction from Twin Buttes, and runs parallel to and joins the north side line of the Butte Mining Claim in said district.

The surface boundaries of the claim are marked upon the ground as follows: Beginning at a Monument of Stones at a point in easterly direction 350 feet from the discovery shaft (at which this notice is posted) being in the center of the easterly end line of said claim; thence northerly 300 feet to a monument of stones being the northeasterly corner of said claim; thence westerly 1500 feet to a monument of stones being at the northwest corner of said claim; thence southerly 300 feet to a monument of stones at the center of the westerly end of said claim; thence southerly 300 feet to a monument of stones being at the southwest corner of said claim; thence easterly 1500 feet to a monument of stones at the southeast corner of said claim; thence northerly 300 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 Eagle Mining Claim, located by John Ellis, Matt Wilde, and Mike Irish on the 18th day of March, 1899, and recorded in Book GG of Records of Mines, at Page 403, in the office of the County Recorder of the aforesaid county of Pima, 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 twenty-first day of January, 1909.

The Twin Buttes Mining and Smelting Company,

By Wm. McDermott, Gen. Mgr.

Filed and Recorded at request of F.H. Hereford, Feb. 11, 1909, at 1:30 P.M., in Book N.N., Record of Mines, at Page 751.

Ben Heney,
County Recorder.

AMENDED

NOTICE OF MINING LOCATION

QUARTZ CLAIM.

TO ALL WHOM IT MAY CONCERN:

This Mining Claim, the name of which is the COPPER BUTTE 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 Twin Buttes Mining and Smelting Company, a corporation, the undersigned, on the 21st day of January, 1909.

The length of this claim is 1500 feet, and it claims 1250 feet in an easterly direction and 250 feet in a westerly direction from the center of the discovery shaft, at which this notice is posted, lengthwise of the claim, together with 300 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 westerly to the easterly.

The claim is situated and located in the Pima Mining District, in Pima County, in the Territory of Arizona, about 750 feet from the Twin Buttes Camp, and joins the westerly end line of the Keen Mining Claim in said district.

The surface boundaries of the claim are marked upon the ground as follows: Beginning at a Monument of Stones at a point in a westerly direction 250 feet from the discovery shaft (at which this notice is posted) being in the center of the westerly end line of said claim; thence southerly 300 feet to a monument of stones being the southwest corner of said claim; thence easterly 1500 feet to a monument of stone being at the southeast corner of said claim; thence northerly 300 feet to a monument of stone at the center of the easterly end of said claim; thence northerly 300 feet to a monument of stone, being at the northeast corner of said claim; thence westerly 1500 feet to a monument of stone at the northwest corner of said claim; thence southerly 300 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 Butte Mining Claim, located by John Ellis, Michael Irish, on the 6th day of April, 1899, and recorded in Book GG of Records of Mines, at Page 224, in the office of the County Recorder of the aforesaid county of Pima, 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 twenty first day of January, 1909.

The Twin Buttes Mining and Smelting Company,

By Wm. McDermott, Gen. Mgr.

Filed and Recorded at request of F.H. Hereford, Feb. 11, 1909, at 1:30 P.M., in Book N.N., Record of Mines, at Page 750.

Ben Heney, County Recorder.

AMENDED
 NOTICE OF MINING LOCATION
 QUARTZ CLAIM.

TO ALL WHOM IT MAY CONCERN:

This Mining Claim, the name of which is the STANDARD COPPER 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 Twin Buttes Mining and Smelting Company, a Corporation organized under the laws of the Territory of Arizona, the undersigned, on the 21st day of January, 1909,

The length of this claim is 1500 feet, and it claims 1325 feet in an easterly direction and 175 feet in a westerly direction from the center of the discovery shaft, at which this notice is posted, lengthwise of the claim, together with 300 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 Westerly to the Easterly.

The claim is situated and located in the Pima Mining District, in Pima County, in the Territory of Arizona, about $3/4$ of a mile in a southwest direction from Twin Buttes Claim and lies parallel to and joins the north side line of the Copper King Mining Claim in said district.

The surface boundaries of the claim are marked upon the ground as follows: Beginning at a Monument of stones at a point in a westerly direction 175 feet from the discovery shaft (at which this notice is posted) being in the center of the westerly end line of said claim; thence northerly 300 feet to a Monument of stones, being the northwest corner of said claim; thence easterly 1500 feet to a monument of stones, being at the north east corner of said claim; thence southerly 300 feet to a monument of stones at the center of the easterly end of said claim; thence southerly 300 feet to a monument being at the south east corner of said claim; thence westerly 1500 feet to a monument of stones at the southwest corner of said claim; thence northerly 300 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 Standard Copper Mining Claim, located by John Ellis, Mike Irish, and Matt Wilde, on the 18th day of March, 1899, and recorded in Book GG of Records of Mines, at Page 402, in the office of the County Recorder of the aforesaid county of Pima 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 twenty-first day of January, 1909.

The Twin Buttes Mining and Smelting Company,

By Wm. McDermott, Gen. Mgr.

Filed and Recorded at request of F.H. Hereford, Feb. 11, 1909, at 1:30 P.M., in Book N.N. Records of Mines, at Page 756.

Ben Heney, County Recorder.



Copper King Mining Claim.
Amended Certificate of Location.

The undersigned locators of the Copper King Mining Claim situated in the Pima Mining District, Pima County, Arizona Territory, have learned that the original certificate of location of said claim dated the 26th day of June, 1896, and filed and recorded in the office of the County Recorder of said Pima County, on the 7th day of August, 1896, in Book F.F., of Records of Mines, page 320 & 321, is defective in certain particulars.

Now, therefore the said locators in accordance with the provisions of an Act of the Legislative Assembly of the Territory of Arizona, approved March 2nd, 1899, entitled an act to amend an Act entitled an Act Concerning Mines being Act No. 42 of the 18th Legislative Assembly of the Territory of Arizona, approved March 5th, 1895, and in accordance with the Acts of Congress in relation to mining claims, hereby amend said original certificate or notice of Location of said mining claim, to wit:

To all whom it may concern:

This Mining Claim, the name of which is the Copper King Mining Claim, situated on lands belonging to the United States of America, and in which there valuable mineral deposits, was entered upon and located for the purpose of exploration and purchase by John Ellis and Michael Irish, the undersigned, on the 26th day of June, 1896.

The length of this claim is 1500 feet and we claim 200 feet in an easterly direction and 1300 feet in a westerly direction from the center of the discovery shaft, at which this notice is posted, lengthwise of the claim, together with 300 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 easterly and westerly.

Ben Henry, County Recorder.

AMENDED

NOTICE OF MINING LOCATION

QUARTZ 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 Twin Buttes Mining and Smelting Company, a Corporation, organized under the laws of the Territory of Arizona, the undersigned, on the 21st day of January, 1909.

The length of this claim is 1500 feet, and it claims 1400 feet in an easterly direction and 100 feet in a westerly direction from the center of the discovery shaft, at which this notice is posted, lengthwise of the claim, together with 300 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 westerly to the easterly.

The claim is situated and located in the Pima Mining District, in Pima County, in the Territory of Arizona, about 750 feet east of the Twin Buttes Round house and depot and joins the easterly end line of the Copper Glance Mining Claim in said district.

Copper King Mining Claim and the westerly end line of the

The surface boundaries of the claim are marked upon the ground as follows: Beginning at A monument of stones at a point in a westerly direction 100 feet from the discovery shaft (at which this notice is posted) being in the center of the westerly end line of said claim; thence northerly 300 feet to a monument of stones being the northwest corner of said claim; thence easterly 1500 feet to a monument of stones being at the northeast corner of said claim; thence southerly 300 feet to a monument of stones at the center of the easterly end of said claim; thence southerly 300 feet to a monument of stones, being at the southeast corner of said claim; thence westerly 1500 feet to a monument of stones at the southwest corner of said claim; thence northerly 300 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 John Ellis and Michael Irish on the 6th day of April, 1899, and recorded in Book GG of Records of Mines, at page 221, in the office of the County Recorder of the aforesaid county of Pima 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 twenty first day of January, 1909.

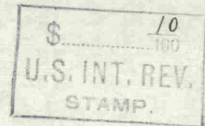
The Twin Buttes Mining and Smelting Company,

By Wm. McDermott, Gen. Mgr.

Filed and Recorded at request of F.H. Hereford, Feb. 11, 1909 at 1:30 P.M., in Book N.N. Record of Mines, at Page 752.

Ben Heney,
County Recorder.

Copper Glance Mining Claim,
Amended Certificate of Location.



The undersigned locators of the Copper Glance Mining Claim, situated in the Pima Mining District, Pima County, Arizona Territory, have learned that the original certificate of location of said claim dated the 1st day of January, 1896, and filed and recorded in the office of the County Recorder of said Pima County, on the 31st day of March, 1896, in Book F.F. Records of Mines, page 223 and 224 is defective in certain particulars.

Now, therefore, the said locators in accordance with the provisions of an act of the Legislative Assembly of the Territory of Arizona, approved March 2", 1899, entitled an act to amend an act, entitled An act concerning mines, being Act No. 42 of the 18" Legislative Assembly of the Territory of Arizona, approved March 5", 1895, and in accordance with the acts of Congress in relation to mining claims, hereby amend said original certificate or notice of location of said mining claim, to wit: To all whom it may concern:

This mining claim, the name of which is the Copper Glance Mining Claim, situated on lands belonging to the United States of America, and in which there are valuable mineral deposits was entered upon and located for the purpose of exploration and purchase by John Ellis and Michael Irish, the undersigned, on the 1st day of January, 1896.

The length of this claim is 1500 feet and we claim 300 feet in a westerly direction and 1200 feet in an easterly direction from the center of the discovery shaft, at which this notice is posted, lengthwise of the claim, together with 300 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 easterly and westerly.

The claim is situated and located in the Pima Mining District, in Pima County, in the Territory of Arizona, about 3/4 of a mile in a southerly direction from Twin Buttes Hoffman Camp in said Pima County.

The surface boundaries of the claim are marked upon the ground as follows: Beginning at a monument of stones at a point in a westerly direction 300 feet from the discovery shaft (at which this notice is posted), being in the center of the west end line of said claim; thence northerly 300 feet to a monument of stones being the north west corner of said claim; thence easterly 750 feet to a monument of stones at the center of the north side line of said claim; thence easterly 750 feet to a monument of stones being at the north east corner of said claim; thence southerly 300 feet to a monument of stones at the center of the east end of said claim; thence southerly 300 feet to a monument of stones being at the south east corner of said claim; thence westerly 750 feet to a monument of stones being at the center of the south side line of said claim; thence westerly 750 feet to a monument of stones at the south west corner of said claim; thence northerly 300 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 Concerning Mines, approved March 20", 1895, and Act amendatory thereof.

Date of this certificate this 6" day of April, 1899.

Witness Hugh Canney.

Nat Wilde.

John Ellis.

Michael Irish.

Filed and recorded at request of
John Ellis, April 7, A.D., 1899,
at 9:45 A.M.

Chas. A. Shibell,

County Recorder.

Recorded Book G G, Records of Mines, Page 228 et seq.

AMENDED

NOTICE OF MINING LOCATION

QUARTZ CLAIM.

TO ALL WHOM IT MAY CONCERN:

This Mining Claim, the name of which is the COPPER BULLION 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 Twin Buttes Mining and Smelting Company, a Corporation organized under the laws of the Territory of Arizona, the undersigned, on the 21st day of January, 1909.

The length of this claim is 1500 feet, and it claims 1100 feet in an easterly direction and 400 feet in a westerly direction from the center of the discovery shaft, at which this notice is posted, lengthwise of the claim, together with 300 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 westerly to the easterly.

The claim is situated and located in the Pima Mining District, in Pima County, In the Territory of Arizona, about one mile in a southerly direction from Twin Buttes Hoffman Camp and joins the westerly end line of the Copper Glance Mining Claim in said district.

The surface boundaries of the claim are marked upon the ground as follows: Beginning at a monument of stones at a point in a westerly direction 400 feet from the discovery shaft (at which this notice is posted) being in the center of the westerly end line of said claim; thence northerly 300 feet to a monument of stones, being the northwest corner of said claim; thence easterly 1500 feet to a monument of stones being at the northeast corner of said claim; thence southerly 300 feet to a monument of stones at the center of the easterly end of said claim; thence southerly 300 feet to a monument of stones being at the southeast corner of said claim; thence westerly 1500 feet to a Monument of stones at the southwest corner of said claim; thence northerly 300 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 Bullion Mining Claim, located by John Ellis and Michael Irish on the 6th day of April, 1899, and recorded in Book GG of Records of Mines, at Page 231, in the office of the County Recorder of the aforesaid county of Pima 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 twenty-first day of January, 1909.

The Twin Buttes Mining and Smelting Company,

By Wm. McDermott, Gen. Mgr.

Filed and Recorded at request of F.H. Hereford, Feb. 11, 1909, at 1:30 P.M. in Book N N, Records of Mines, at Page 749
Ben Henry, County Recorder.

AMENDED NOTICE OF MINING LOCATION,
LODE CLAIM.

TO ALL WHOM IT MAY CONCERN:

This Mining Claim, the name of which is the BULLION No. 2, situate on lands belonging to the United States of America at the time the original of this location was made, and in which there were and are valuable mineral deposits, was entered upon and located for the purposes of exploration and purchase by the Twin Buttes Mining and Smelting Company, a Corporation organized and existing under and by virtue of the laws of the Territory of Arizona, on the 19th day of May, 1904, the Location Notice of which was recorded in the Office of the County Recorder of Pima County, Arizona, in Book J J, Records of Mines, at Pages 546 - 547.

The length of this claim is 1500 feet and we claim 165 feet in a westerly direction and 1335 feet in an easterly direction from the center of the discovery shaft at which this notice is posted, lengthwise of the claim, together with 300 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 east to the west. The claim is situated and located in the Pima Mining District, in Pima County, in the Territory of Arizona, about more than one mile in a southerly direction from Twin Buttes Peak parallel with the Bullion Mine. The surface boundaries of the claim are marked upon the ground as follows: Beginning at West end center at a

point in a westerly direction, 175 feet from the discovery shaft (at which this notice is posted), being in the center of the West end line of said claim; thence northerly 300 feet to a monument being the Northwest corner of said claim; thence easterly 1500 feet to a monument being at the Northeast corner of said claim; thence Southerly 300 feet to a monument being the center of the East end of said claim; thence Southerly 300 feet to a monument being at the southeast corner of said claim; thence Westerly 1500 feet to a monument at the Southwest corner of said claim; thence Northerly 300 feet to the place of beginning. All done under the provisions of Chapter Six, Title XXXII, of the Revised Statutes of the United States, and of an Act of the General Assembly of Arizona, entitled "An Act to Codify and Revise the Laws of the Territory of Arizona", approved March 16th, 1901.

This is an amended location notice of the said BULLION NO. 2 Mining Claim to which reference is hereby made, and this Amended Location Notice is made and posted to correct errors in the Original Description contained in the said Location Notice, and to fix the boundaries of said claim with more definiteness.

Dated and posted on the ground this 2nd day of March, 1909.

The Twin Buttes Mining & Smelting Co.,

By Wm. McDermott, General Manager.

Filed and recorded at request of F. H. Hereford, March 3, 1909, at 11:45 A.M., in Book CC, Records of Mines, Page 1.

Ben Heney,

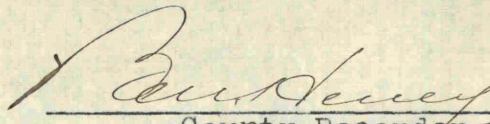
County Recorder.

Certificate of Recorder.

Territory of Arizona,"
" " SS.
County of Pima. " "
" "

I, BEN. HENEY, County Recorder in and for the County and Territory aforesaid, hereby certify that I have compared the foregoing copies of the Notices of Location of the Copper Bullion, Copper Bullion No. 2, Copper Glance, Copper Queen, Copper King, Standard Copper, Copper Eagle, Copper Butte Mining Claims with the original records, filed and recorded in my office on the respective dates and in the Books and on the pages therein mentioned, and that the same are full, true and correct copies of such records, and of the whole thereof.

WITNESS my hand and seal of office this ___ day of March, A.D. 1909.



County Recorder.

By _____ Deputy.

V F E X I E

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

Department of the Interior,

OFFICE OF U. S. SURVEYOR-GENERAL,

Phoenix, Arizona,

October 22, 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 The Twin Buttes Mining & Smelting Company

Copper Eagle, Copper Butte, Standard Copper, Copper King, Copper Queen, Copper Glance, Copper Bullion, Bullion No. 2.

situate in Pima

Mining District, Pima County, Arizona

in Section 6, Township No. 17 & 18 S, Range No. 12 & 13 E, and designated as Survey No. 2643, 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 claim ^{by claimant or its} grantors, and that said improvements consist of 33 shafts, 3 cuts, 1 stope, 3 winzes, 120 linear ft. of crosscuts and 744.5 linear ft. of drifts, value \$26,975.00.

No. 4 shaft on the Copper King lode being for the benefit and development of the Copper Eagle, Copper Butte, Standard Copper, Copper Queen and Copper King lodes of this survey, and only those lodes, an undivided 1/5 interest therein, value \$1348, is properly credited to each of said five lodes, and shaft No. 2 on the Copper Glance lode being for the benefit and development of the Copper Glance, Copper Bullion and Bullion No. 2 lodes, of this survey, and only those lodes, an undivided one-third interest therein, value \$2766-2/3, is properly credited to each of said three lodes.

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 22, 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

The Twin Buttes Mining & Smelting Company

known as the Copper Eagle, Copper Butte, Standard Copper, Copper King, Copper Queen, Copper Glance, Copper Bullion, Bullion No. 2.

situate in Pima Mining District,

Pima County, Arizona

in Section 1, 6, 31, 36, Township No. 17 & 18 S., Range No. 12 & 13 E., designated as Survey No. 2643

executed by William C. Goetz, U. S. Deputy Mineral

Surveyor, March 16-20, 1909, under my instructions dated

March 8th, 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.