

Copied sept. 4, 1909.

A L H

1
AUG 9 1909
AUG 23 1909

Completed

4-683.

MINERAL SURVEY No. 2640.

LOT No. _____

Arizona

Land District.

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

The Twin Buttes Mining and Smelting Company

KNOWN AS THE

James G. Blaine, Garfield, Admiral Dewey, The McKinley Copper,
Hobson Copper and Copper Hill.

Pima Mining District,

Pima

County, Arizona

Sections { 25
 { 30
 { 31

, Township

{ 17 S.
 { 17 S.
 { 17 S.

, Range

{ 12 E.
 { 13 E.
 { 13 E.

Surveyed under instructions dated March 8th., 1909.

by William C. Goetz

U. S. Mineral Surveyor.

Claim located See Amended Location Notices 19

Survey commenced March 20th., 19 09.

Survey completed March 23rd., 19 09.

6-822

Address;

Frank H. Hereford, Attorney,

Tucson, Arizona.

MINERAL SURVEY NO. 2640.
=====

Feet

James G. Blaine Lode.

Beginning at Cor. No. 1, identical with the S.E. Cor. of the amended location, a x in a quartzite rock 12 x 19 ins., 24 ins. long, set 19 ins. in ground, chiseled J.G.B.1-2640, with mound of stone 3 ft. base by 3 ft. high alongside to S.

The Cor. common to Secs. 25 and 36, T.17 S. R.12 E., and Secs. 30 and 31, T.17 S. R.13 E., G. & S. R. B. & M. bears N. 65° 15' 40" W. 381.7 ft. dist.

Cor. No. 1 of the Senator Stewart lode bears N. 82° 03' 40" W. 715.7 ft. dist. The Senator Stewart lode is Survey No. 2642.

Thence N. 54° 09' 30" E.

on line 1-2, ascending slope.

54. top of ridge

265.6 intersect the S. line of Sec. 30, T. 17 S. R. 13 E., G. & S. R. B. & M. at S. 89° 34' 15" E. 562.1 ft. from the S.W. Cor. of said Sec., and N. 89° 34' 15" W. 2197.5 ft. from the S. $\frac{1}{4}$ Sec. Cor. of said Sec.

300. S.E.E.C. of claim, identical with the S.E.E.C. of the amended location; a x in a quartzite boulder 12 x 12 ins., 24 ins. long, set 15 ins. in ground, with mound of stone 3 ft. base by 3 ft. high alongside to N.

600. Cor. No. 2, identical with the N.E. Cor. of the amended location; a x in a granite boulder 9 x 17 ins., 31 ins. long, set 21 ins. in ground, chiseled J.G.B.2-2640, with mound of stone 3 ft. base by 2 $\frac{1}{2}$ ft. high alongside to N; whence Cor. No.3 of the Admiral Dewey lode of this survey bears S.32°06'45"E.184.6 ft. dist.

Thence N. 35° 38' 30" W.

on line 2-3, along N.Ely. slope of butte.

560. center of 3 ft. wash running N.Ely.

877. center of 5 ft. wash running N.Ely.

1315. center of 2 ft. wash running N.Ely.

1369. center of 2 ft. wash running N.Ely.

1429.7 intersect W. line of aforesaid Sec. 30 at N. 1353.5 ft. from the S.W. Cor. thereof, and South 1286.5 ft. from the theoretical point for the W. $\frac{1}{4}$ Sec. Cor. of said Sec. (said $\frac{1}{4}$ Sec. Cor.)

Feet

being obliterated)

1500. Cor. No. 3, identical with the N.W. Cor. of the amended location; a x in a granite rock 13 x 13 ins., 24 ins. long, set 15 ins. in ground, chiseled J.G.B.3-2640, with mound of stone 3 ft. base by 3 ft. high alongside to S. This Cor. falls on N.Ely. slope of butte.

Thence S. 54° 09' 30" W.

on line 3-4, ascending N.Ely. slope of butte.

300. N.W.E.C. of claim, identical with the W.E.C. of the amended location; a x in a granite boulder 12 x 16 ins., 27 ins. long, set 18 ins. in ground, with mound of stone 3 ft. base by 3 ft. high alongside to S.

600. Cor. No. 4, identical with the S.W. Cor. of the amended location; a x in a granite rock 12 x 16 ins., 28 ins. long, set 19 ins. in ground, chiseled J.G.B.4-2640, with mound of stone 3 ft. base by 3 ft. high alongside to S.

Cor. No. 4 of the Copper Prince lode, Survey No. 2641, bears S. 4° 32' 45" W. 332.1 ft. dist.

Thence S. 35° 38' 30" E.

on line 4-1, ascending N.Ely. slope of butte.

905. intersect W. line of aforesaid Sec. 30 at North 323.8 ft. from the S.W. Cor. thereof, and South 2316.2 ft. from the ^{theoretical} point for the W. 1/4 Sec. of said Sec., said Cor. being obliterated.

1220. top of ridge. Descend ridge.

1305.6 intersect S. line of aforesaid Sec. 30 at S. 89° 34' 15" E. 233.4 ft. from the S.W. Cor. thereof, and N. 89° 34' 15" W. 2526.2 ft. from the S. 1/4 Sec. Cor. thereof.

1500. Cor. No. 1, the place of beginning.

Garfield Lode.

Beginning at Cor. No. 1, identical with the S.E. Cor. of the amended location and with Cor. No. 2 of the James G. Blaine lode of this survey. I chiseled same G.1-2640.

(4)

- Feet The Cor. common to Secs. 25 and 36, T. 17 S. R. 12 E., and
Secs. 30 and 31, T. 17 S. R. 13 E., G. & S. R. B. & M. bears
200° S. $77^{\circ} 03' 15''$ W. 854.8 ft.
Thence N. $54^{\circ} 09' 30''$ E.
on line 1-2, over slight ascent.
272.1 intersect line 3-4 of Admiral Dewey lode of this survey S. 21°
11' W. 261.6 ft. from Cor. No. 4 thereof.
300. S.E.E.C. of claim, identical with the E.E.C. of the amended
location; a x in a granite boulder 9 x 12 ins., 31 ins. long,
set 19 ins. in ground, with mound of stone 3 ft. base by $2\frac{1}{2}$ ft.
high alongside to N.
512. road runs S.Ely.
- 583.6 Intersect line 4-1 of Admiral Dewey and line 1-2, The
McKinley Copper lodes, of this survey, at S. $68^{\circ} 44'$
45" E. 169.6 ft. from Cors. Nos. 4 & 2 thereof.
600. Cor. No. 2, identical with the N.E. Cor. of the amended loca-
tion; a x in a garniferous rock 6 x 8 ins., 25 ins. long, set
19 ins. in ground, chiseled G.2-2640, with mound of stone 3 ft.
base by $2\frac{1}{2}$ ft. high alongside to N.E.
Thence N. $35^{\circ} 38' 30''$ W.
on line 2-3.
192. road runs Sly.
- 213.2 intersect line 2-3 of The McKinley Copper lode of this survey
at N. $21^{\circ} 11'$ E. 130.2 ft. from Cor. No. 2 thereof.
215. center of 10 ft. wash running Ely.
517. center of 5 ft. wash running N.Ely.
633. center of 3 ft. wash running N.Ely., and toe of knoll.
745. top of knoll
1310. leave top of knoll and descend
1500. Cor. No. 3, identical with the N.W. Cor. of the amended loca-
tion; a x in an andesite rock 8 x 12 ins., 25 ins. long, set 17
ins. in ground, chiseled G.3-2640, with mound of stone 3 ft.
base by 3 ft. high alongside to N.E.

This Cor. falls on the slope of the S.Ely. bank of an arro-
yo about 30 ft. deep and 15 ft. wide at the bottom, running
N.Ely.

(1) 30

- Thence S. 54° 09' 30" W.
- Feet on line 3-4, along last named slope of arroyo, ascending.
273. leave arroyo and ascend slope of butte
300. N.W.E.C. of claim, identical with the W.E.C. of the amended location; a x in an andesite rock 8 x 8 ins., 24 ins. long, set 17 ins. in ground, with mound of stone 3 ft. base by 3 ft. high alongside to S.
- 549.4 intersect W. line of Sec. 30, T. 17 S. R. 13 E., G. & S. R. B. & M. at N. 1440.2 ft. from the S.W. Cor. of said Sec. 30, and S. 1199.8 ft. from the ^{theoretical} point for the W. ^{Sec.} $\frac{1}{4}$ Cor. of said Sec., said $\frac{1}{4}$ Sec. Cor. being obliterated.
600. Cor. No. 4, identical with the S.W. Cor. of the amended location, and with Cor. No. 3 of the James G. Blaine lode of this survey. I chiseled same G.4-2640.

- Thence S. 35° 38' 30" E.
- on line 4-1, identical with line 2-3 James G. Blaine lode of this survey
1500. Cor. No. 1, the place of beginning.

Admiral Dewey Lode

Beginning at Cor. No. 1, identical with the N.E. Cor. of the amended location; a x in a limestone rock 15 x 16 ins., 24 ins. long, set 17 ins. in ground, chiseled A.D.1-2640, ("2640" being chiseled on top of stone) with mound of stone 3 ft. base by 2 $\frac{1}{2}$ ft. high alongside to N.

The $\frac{1}{4}$ Sec. Cor. between Secs. 30 and 31, T. 17 S., R. 13 E., G. & S. R. B. & M. bears S. 71° 28' E. 224.8 ft. dist.

This Cor., (A.D.1-2640) falls on Sly. slope of butte.

- Thence S. 21° 11' W.
- on line 1-2, descending slope.
- 74.7 intersect the S. line of Sec. 30, T. 17 S., R. 13 E. at N. 89° 34' 15" W. 240.1 ft. from the S. $\frac{1}{4}$ Sec. Cor. of said Sec., and S. 89° 34' 15" E. 2519.5 ft. from the S.W. Cor. of said Sec.
300. E.E.C. of claim, identical with the E.E.C. of the amended location; a x in a limestone rock 11 x 15 ins., 24 ins. long, set 16 ins. in ground, with mound of stone 3 ft. base by 2 $\frac{1}{2}$ ft.

- Feet high alongside to N.
- 600. Cor. No. 2, identical with the S.E. Cor. of the amended location; a x in a limestone rock 10 x 12 ins., 27 ins. long, set 18 ins. in ground, chiseled A.D.2-2640, with mound of stone 3 ft. base by 3 ft. high alongside to S.

Thence N. 68° 44' 45" W.

on line 2-3, along S.Wly. slope.
- 680. Road, runs Sly.
- 1381.7 intersect S. line of last named Sec.30 at N. 89° 34' 15" W. 1717.7 ft. from the S. $\frac{1}{4}$ Sec. Cor. thereof, and S. 89° 34' 15" E. 1041.9 ft. from the S.W. Cor. thereof.
- 1447. top of low ridge; descend ridge
- 1500. Cor. No. 3, identical with the S.W. Cor. of the amended location; a x in a granite boulder 13 x 17 ins., 32 ins. long, set 26 ins. in ground, chiseled A.D.3-2640, with mound of stone 3 ft. base by 2 $\frac{1}{2}$ ft. high alongside to S. Cor. No. 2 of the James G. Blaine lode of this survey bears N.32°06'45"W. 184.6 ft. dist.

Thence N. 21° 11' E.

on line 3-4, ascending Wly. side of low ridge
- 300. W.E.C. of claim, on low ridge, identical with the W.E.C. of the amended location; a x in a granite boulder 8 x 10 ins., 25 ins. long, set 20 ins. in ground, with mound of stone 3 ft. base by 2 $\frac{1}{2}$ ft. high alongside to N.
- 338.4 intersect line 1-2 Garfield Lode of this survey
- 600. Cor. No. 4, identical with the N.W. Cor. of the amended location; a x in a garniferous quartzite boulder 6 x 8 ins., 24 ins. long, set 20 ins. in ground, chiseled A.D.4-2640, with mound of stone 3 ft. base by 2 $\frac{1}{2}$ ft. high alongside to N.E.

Thence S. 68° 44' 45" E.

on line 4-1
- 30. road runs S.Ely.
- 169.6 intersect line 1-2 of the Garfield Lode of this survey
- 195. center of 3 ft. wash running Nly. Ascend slope
- 380. top of small knoll. Thence along S.Wly. slope of butte
- 1500. Cor. No. 1, the place of beginning.

The McKinley Copper Lode

- Beginning at Cor. No. 1, identical with the S.E. Cor. of the amended location and with Cor. No. 1 of the Admiral Dewey lode of this survey. I chiseled same T.McK.C.1-2640, ("2640" being chiseled on top of stone) The $\frac{1}{4}$ Sec. Cor. between Secs. 30 and 31, T.17S.R.13E., G.&S.R.B.&M. bears S.71°28'E. 224.8 ft. dist.
Thence N. 68° 44' 45" W.
- on line 1-2, identical with line 4-1 Admiral Dewey lode of this survey
- 1330.4 intersect line 1-2 Garfield lode of this survey
1500. Cor. No. 2, identical with Cor. No. 4 of last named Admiral Dewey lode. I chiseled same T.McK.C.2-2640
Thence N. 21° 11' E.
- on line 2-3,
- 130.2 intersect line 2-3 Garfield lode of this survey, in a 10 ft. wash running Ely.
300. W.E.C. of claim, identical with the W.E.C. of the amended location; a x in a limestone rock 7 x 11 ins., 25 ins. long, set 18 ins. in ground, with mound of stone 2½ ft. base by 2½ ft. high alongside to N.
420. road runs Sly. and 5 ft. wash runs N.Ely.
600. Cor. No. 3, identical with the N.W. Cor. of the amended location; a x in a granite boulder 12 x 19 ins., 30 ins. long, set 21 ins. in ground, chiseled T.McK.C.3-2640, with mound of stone 3 ft. base by 2½ ft. high alongside to N. ("2640" is chiseled on top of this stone)
Thence S. 68° 44' 45" E.
- on line 3-4,
114. center of 5 ft. wash running N.Ely. Ascend butte.
1040. top of ridge; thence along N.Ely. slope of same
1500. Cor. No. 4, identical with the N.E. Cor. of the amended location; a x in a limestone rock in place, chiseled T.McK.C.4-2640, with mound of stone 4 ft. base by 3 ft. high alongside to N.
Thence S. 21° 11' W.
- on line 4-1, ascending N.Ely. slope.
54. top of ridge; descend precipitous S.Wly. slope

- Feet
- 300. E. E. C. of claim, identical with the E. E. C. of the amended location; a x in a limestone rock 6 x 9 ins., 24 ins. long, set 17 ins. in ground, with mound of stone 3 ft. base by 3 ft. high alongside to N.
Descent less precipitous
 - 600. Cor. No. 1, the place of beginning.
Hobson Copper Lode
Beginning at Cor. No. 1, identical with Cor. Nos. 1 of the Admiral Dewey and The McKinley Copper lodes of this survey.
I chiseled same H.C.1-2640, ("2640" being chiseled on top of stone) The $\frac{1}{4}$ Sec. Cor. between Secs. 30 and 31, T. 17 S. R. 13 E., G. & S. R. B. & M. bears S. 71° 28' E. 224.8 ft. dist.
Thence S. 68° 44' 45" E.
on line 1-2, along S.Wly. slope of high butte
 - 196.5 intersect S. line of Sec. 30, T. 17 S. R. 13 E., G. & S. R. B. & M. at N. 89° 34' 15" W. 30 ft. from the S. $\frac{1}{4}$ Sec. Cor. of said Sec., and S. 89° 34' 15" E. 2729.6 ft. from the S.W. Cor. of said Sec. 30
 - 930. cross top of ridge
 - 1320. saddle between high buttes
 - 1500. Cor. No. 2, identical with the S.E. Cor. of the amended location; a x in a granite boulder 13 x 15 ins., 28 ins. long, set 21 ins. in ground, chiseled H.C.2-2640, with mound of stone 3 $\frac{1}{2}$ ft. base by 2 $\frac{1}{2}$ ft. high alongside to N.
Thence N. 21° 11' E.
on line 2-3, descending
 - 300. E. E. C. of claim, identical with the E. E. C. of the amended location; a x in a granite boulder 9 x 12 ins., 28 ins. long, set 22 ins. in ground, with mound of stone 3 ft. base by 3 ft. high alongside to N.
 - 388. center of wash 3 ft. wide running E.
 - 506.5 intersect S. line of last named Sec. 30 at East 1367.7 ft. from the S. $\frac{1}{4}$ Cor. of said Sec., and West 1272.3 ft. from the ^{theoretical} point for the S.E. Cor. of said Sec.
 - 564. center of 3 ft. wash running Ely.
 - 600. Cor. No. 3, identical with the N.E. Cor. of the amended location;

Feet (9)

A x in a granite boulder 10 x 12 ins., 24 ins. long, set 17 9
 ins. in ground, chiseled H.C.3-2640, with mound of stone 3 ft.
 base by 2½ ft. high alongside to N.

Thence N. 68° 44' 45" W.

on line 3-4, ascending slope

535. cross low ridge. Descend ridge
 730. center of wash 2 ft. wide running N.E. Ascend high butte
 1500. Cor. No. 4, identical with the N.W. Cor. of the amended loca-
 tion and with Cor. No. 4 of The McKinley Copper Lode of this
 survey. I chiseled same H.C.4-2640

Thence S. 21° 11' W.

on line 4-1, identical with line 4-1 of last named The
 McKinley Copper lode.

300. W. E. C. of claim, identical with the W. E. C. of the amended
 location, and with the E. E. C. of last named The McKinley
 Copper lode of this survey.

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

Copper Hill Lode.

Beginning at Cor. No. 1, identical with the N.W. Cor. of
 the amended location, and with Cor. Nos. 1 of the Admiral
 Dewey, ^{The} McKinley Copper, and Hobson Copper lodes of this survey
 I chiseled same C.H.1-2640, ("2640" being chiseled on top of
 stone) The ¼ Sec. Cor. between Secs. 30 and 31, T. 17 S. R. 13 E., G. & S. R.
 B. & M. bears S. 71° 28' E. 224.8 ft. dist.

Thence S. 21° 11' W.

On line 1-2, identical with line 1-2 of the Admiral Dewey
 lode of this survey.

74.7 Intersect the S. line of Sec. 30, T. 17 S., R. 13 E. at N. 89°
 34' 15" W. 240.1 ft. from the S. 1/4 Sec. Cor. and S. 89° 34'
 15" E. 2519.5 ft. from the S. W. Cor. of said Sec.

300. W.E.C. of claim, identical with the W. E. C. of the amended
 location and with the E. E. C. of the Admiral Dewey lode of
 this survey

600. Cor. No. 2, identical with the S.W. Cor. of the amended lo-
 cation and with Cor. No. 2 of the Admiral Dewey lode of this
 survey. I chiseled same C.H.2-2640

Thence S. 68° 44' 45" E.

on line 2-3, along S.Wly. slope of high butte.

955. center of 3 ft. wash running Sly.

Feet
1500.

Cor. No. 3, identical with the S.E. Cor. of the amended location; a x in a granite boulder 7 x 8 ins., 24 ins. long, set 17 ins. in ground, chiseled C.H.3-2640, with mound of stone 3 ft. base by 2½ ft. high alongside to S.W.

A Mesquite tree 12 ins. in diameter and scribed C.H.3-2640 B.T., bears S. 68° 45' E. 55 ft. dist.

Thence N. 21° 11' E.

on line 3-4,

182. center of 2 ft. wash running S.Ely. Ascend ridge

300. E. E. C. of claim, identical with the E. E. C. of the amended location; a x in a granite boulder 7 x 12 ins., 24 ins. long, set 18 ins. in ground, with mound of stone 3 ft. base by 2½ ft. high alongside to N.

600. Cor. No. 4, identical with the N.E. Cor. of the amended location and with Cor. No. 2 of the Hobson Copper lode of this survey. I chiseled same C.H.4-2640

Thence N. 68° 44' 45" W.

on line 4-1, identical with line 1-2 of the Hobson Copper lode of this survey

1303.5 Intersect S. line Sec. 30, T. 17 S., R. 13 E. at N. 89° 34' 15" W. 30 ft. from the S. 1/4 Cor. and S. 89° 34' 15" E. 2729.6 ft. from the S. W. Cor. of said Sec.

1500.0 Cor. No. 1, the place of beginning.

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 various discovery points as follows:

James G. Blaine lode

S. 35°38'30" E. 145.5 ft. and N. 35°38'30" W. 1354.5 ft.

Garfield lode

S. 35°38'30" E. 267. ft. and N. 35°38'30" W. 1233. ft.

Admiral Dewey lode

S. 68°44'45" E. 263. ft. and N. 68°44'45" W. 1237. ft.

The McKinley Copper lode

S. 68°44'45" E. 600. ft. and N. 68°44'45" W. 900. ft.

Hobson Copper lode
 N. 68°44'45" W. 95. ft. and S. 68°44'45" E. 1405. ft.
 Copper Hill lode
 S. 68°44'45" E. 756. ft. and N. 68°44'45" W. 744. ft.

Areas.		Acres
Total area James G. Blaine lode		20.661
Total area Garfield lode	Acres	20.661
Area in conflict with		
Admiral Dewey lode of this survey	0.509	
The McKinley Copper lode of this sur.	0.294	
Total area in conflict with	0.803	
Net area Garfield lode		19.858
Total area The McKinley Copper lode		20.661
Total area Admiral Dewey lode		20.661
Total area Hobson Copper lode		20.661
Total area Copper Hill lode		20.661

Location.

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

- S. E. 1/4 Sec. 25, T. 17 S. R. 12 E. (
- S. W. 1/4 Sec. 30, T. 17 S. R. 13 E. (
- S. E. 1/4 Sec. 30, T. 17 S. R. 13 E. (G. & S. R. B. & M.
- N. W. 1/4 Sec. 31, T. 17 S. R. 13 E. (
- N. E. 1/4 Sec. 31, T. 17 S. R. 13 E. (

Adjoining Claims.

This survey is adjoined on the E. by the Transvaal and the claimants unknown; Twin Peaks lodes, unsurveyed, on the S. by a claim of the Hugh Canny Estate, the names of the several lodes of which cannot be ascertained, and which claim is unsurveyed; on the S.W. by the Crazy Horse, unsurveyed, located by Charles

Ashburn and J. D. White; on the N.W. by a Chapultapec Mining Company Claim, unsurveyed, the names of the lodes of which can not be ascertained; on the N. by unsurveyed claims, the names and claimants of which can not be ascertained.

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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:

James G. Blaine Lode

From a point on line 2-3, N. 35° 38' 30" W. 397.2 ft. from Cor. No. 2:

No. 1 - The discovery shaft 4 x 6 ft., 10 ft. deep, bears S. 14° 14' W. 392. ft. dist.

Value \$100.00

No. 2 - A shaft 4 x 6 ft., 10 ft. deep, bears S. 13° 14' W. 184. ft. dist.

Value \$100.00

No. 3 - A shaft 4 x 6 ft., 10 ft. deep, bears S. 15° 39' W. 169. ft. dist.

Value \$100.00

No. 4 - A shaft 4 x 6 ft., 10 ft. deep, bears N. 62° 22' W. 295. ft. dist.

Value \$100.00

No. 5 - A shaft 4 x 6 ft., 10 ft. deep, bears S. 3° 38' E. 60. ft. dist.

Value \$ 100.00

From a point N. 58° 26' 30" W. 401.2 ft. from last named point on line 2-3 of this lode:

No. 6 - A shaft 4 x 4 ft., 10 ft. deep, bears N. 62° 10' W. 409. ft. dist.

Value \$66.00

No. 7 - The mouth of an open cut 4 ft. wide, 7 ft. face, 12 ft. long, bears N. 54° 13' W. 258. ft. dist.

Value \$60.00

No. 8 - A shaft 5 x 5 ft., 10 ft. deep, bears N. 54° 10' W. 239. ft. dist.

Value \$100.00

No. 9 - A shaft 4 x 5 ft., 10 ft. deep, bears N. 53° 16' W. 191. ft. dist.

Value \$80.00

No. 10 - A shaft 4 x 6 ft., 10 ft. deep, bears N. 48° 47' W. 175. ft. dist.

Value \$100.00

No. 11 - A shaft 4 x 6 ft., 10 ft. deep, bears N. 46° 35' W. 193. ft. dist.

Value \$100.00

To be credited from Nos. 2, 6, 7 & 8 of the Copper Hill lode of this survey

\$966.66

Total value \$1972.66

Garfield Lode.

From the S. E. E. C.

No. 1 - The discovery shaft 4 x 6 ft., 10 ft. deep, bears N. 35° 38' 30" W. 267. ft. dist.

Value \$100.00

To be credited from Nos. 2, 6, 7 & 8 of the Copper Hill lode of this survey

\$966.66

Total value \$1066.66

Admiral Dewey Lode.

From the E. E. C.

No. 1 - The discovery shaft 4 x 6 ft., 10 ft. deep, bears N. 68° 44' 45" W. 263. ft. dist.

Value \$100.00

No. 2 - A shaft 4 x 6 ft., 10 ft. deep bears N. 43° 13' W. 484. ft. dist.

Value \$100.00

(14)

No. 3 - A shaft 4 x 6 ft., 10 ft. deep, bears N. 36° 47' W.
382. ft. dist.

Value \$100.00

To be credited from Nos. 2, 6, 7 & 8 of the
Copper Hill lode of this survey

\$966.67

Total value \$1266.67

The McKinley Copper Lode.

From the E. E. C.

No. 1 - The discovery shaft 4 x 6 ft., 10 ft. deep, bears
N. 68° 44' 45" W. 600. ft. dist.

Value \$100.00

No. 2 - A shaft 4 x 6 ft., 10 ft. deep, bears N. 78° 39' W.
636. ft. dist.

Value \$100.00

No. 3 - A shaft 4 x 6 ft., 10 ft. deep, bears N. 77° 39' W.
759. ft. dist.

Value \$100.00

No. 4 - A shaft 4 x 6 ft., 5 ft. deep, bears N. 83° 02' W.
664. ft. dist.

Value \$50.00

From Cor. No. 1

No. 5 - A shaft 5 x 10 ft., 5 ft. deep, bears N. 47° 29' W.
216. ft. dist.

Value \$80.00

To be credited from Nos. 2, 6, 7 & 8 of the
Copper Hill lode of this survey

\$966.67

Total value \$1396.67

Hobson Copper Lode.

From the W. E. C.

No. 1 - The discovery shaft 4 x 6 ft., 10 ft. deep, bears
S. 68° 44' 45" E. 95. ft. dist.

Value \$100.00

From the E. E. C.

No. 2 - A shaft 4 x 6 ft., 10 ft. deep, bears N. 27° 48' W.
238. ft. dist.

Value \$100.00

To be credited from Nos. 2, 6, 7 & 8 of the
Copper Hill lode of this survey

\$966.67

Total value \$1166.67

Copper Hill Lode.

From a point N. 54° 22' 15" E. 80.9 ft. dist. from a point
which bears N. 40° 27' 15" E. 165.7 ft. dist. from a point on
line 2-3 of this lode, and which last named point bears N. 68°
44' 45" W. 837.4 ft. dist. from Cor. No. 3 thereof:

No. 1 - The discovery cut and tunnel. The mouth of the tunnel
bears N. 14° 21' E. 76. ft. dist. From this point the tunnel,
5 x 6 ft., bears N. Westerly 13 ft., and the cut, 5 ft. wide
by 8 ft. face, bears S. Easterly 42. ft. to its mouth

Value \$400.00

No. 2 - A shaft 5 x 6 ft., 100. ft. deep, inclining to the S.
at an angle of 10° from the vertical, with two cross cuts at
bottom bearing: one, S. 48° W. 53. ft., the other N. 48° E. 49
ft., bears N. 39° 02' E. 32.5 ft. dist.

Total value \$2520.00

A 1/6 interest of the value of this
shaft, is credited to each of the lodes
of this survey

Value of 1/6 interest, credited to this lode \$420.00

No. 3 - A shaft 4 x 6 ft., 10 ft. deep, bears N. 9° 57' W.
72. ft. dist.

Value \$100.00

No. 4 - A shaft 4 x 6 ft., 10 ft. deep, bears N. 30° 38' W.
7 ft. dist.

Value \$100.00

No. 5 - A shaft 4 x 6 ft., 10 ft. deep, bears N. 44° 57' W.
33. ft. dist.

Value \$100.00

From a point N. 40° 27' 15" E. 165.7 ft. dist. from a
point on line 2-3 of this lode, which last named point is
N. 68° 44' 45" W. 837.4 ft. dist. from Cor. No. 3 thereof:

No. 6 - A shaft 4 x 8 ft., 113. ft. deep, inclining to the S. at an angle of 10° from the vertical, bears S. 40° 13' E. 8 ft. dist.

Total value \$2000.00

A 1/6 interest of the value of this shaft is credited to each of the lodes of this survey

Value of 1/6 interest credited to this lode \$333.33

No. 7 - The mouth of an open cut 6 ft. wide by 10 ft. face bears N. 80° 47' W. 87. ft. dist. The cut bears from its mouth S. 75° E. 58. ft. Total value \$580.00

A 1/6 interest of the value of this cut is credited to each of the lodes of this survey

Value of 1/6 interest credited to this lode \$96.67

From a point on line 2-3 of this lode, which point bears N. 68° 44' 45" W. 837.4 ft. dist. from Cor. No. 3 thereof:

No. 8 - The mouth of a tunnel, also face of a cut, bears N. 36° 59' E. 40. ft. dist. From mouth of tunnel the tunnel, 5 x 6 ft., 56. ft. long, bears N. 38° E., and an open cut 5 ft. wide by 8 ft. face and 21 ft. long bears S. 38° W.

Total value \$700.00

A 1/6 interest of the value of this cut and tunnel is credited to each of the lodes of this survey

Value of 1/6 interest credited to this lode \$116.67

From a point on line 2-3 of this lode, which point bears N. 68° 44' 45" W. 483.4 ft. dist. from Cor. No. 3 thereof:

No. 9 - A shaft 4 x 6 ft., 58. ft. deep, bears N. 37° 44' W. 185. ft. dist. From this shaft an open cut 6 ft. wide by 8 ft. face extends N. 52° W. 12. ft., and S. 52° E. 28. ft.

Value of shaft and cut \$1270.00

From Cor. No. 1

No. 10 - A shaft 4 x 6 ft., 10 ft. deep, bears S. 44° 37' E. 330. ft. dist.

Value \$100.00

Total value \$3036.67

Note:- Improvements Nos. 2, 6, 7 & 8 of the Copper Hill lode, as at present executed, and contemplated for future extension, constitute a system of development which benefits all the lodes of this claim, and each lode is therefor credited with an equal interest in said improvements. See "Note" attached herewith.

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Instrument.

This survey was made with a Seelig & Kandler's Engineers Transit graduated to 30 seconds, and all courses were deflected 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 S.W. Cor. of Sec. 30, T. 17 S. R. 13 E. is a stone 8 x 14 ins., 23 ins. long, set on the ground and surrounded by a mound of stone $1\frac{1}{2}$ ft. high by 4 ft. base.

The $\frac{1}{4}$ Sec. Cor. between Secs. 30 & 31, T. 17 S. R. 13 E. is a mound of stone $1\frac{1}{2}$ ft. high by $2\frac{1}{2}$ ft. base. From this Cor. the Sec. line was retraced Easterly a distance of $1\frac{1}{2}$ miles in search of Cors. of the public survey, but none were found.

From the S.W. Cor. of Sec. 30 last mentioned, the Sec. line was retraced Northerly a distance of 2 miles in search of Cors. of the public survey, but none were found.

Cor. No. 1 of the Senator Stewart Lode, Mineral Survey No. 2642, is a x in an andesite boulder 6 x 12 ins., 31 ins. long, set 19 ins. in ground, chiseled S.S.1-2642, with mound of stone 3 ft. base by 2 ft. high alongside to N.

Cor. No. 4 of the Copper Prince Lode, Mineral Survey No. 2641, is a x in an andesite rock 9 x 16 ins., 28 ins. long, set 19 ins. in ground, chiseled C.P.4-2641, with mound of stone 3 ft. base by $2\frac{1}{2}$ ft. high alongside to N.

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

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.

The difference in distances from the various discovery shafts to the end center monuments, as shown between this survey and the location, is due to errors in the location.

The S.E. Cor. and the W. $\frac{1}{4}$ Sec. Cor. of Sec. 30, T. 17 S. R. 13 E. were theoretically located by calculation from the nearest existing public land Cor., by adopting the courses and distances of the official field notes of the public land survey of this Sec.

Improvements Nos. 6, 7, 8, 9, 10 and 11 of the James G. Blaine lode, and improvements Nos. 1, 2, 3, 4, 5, 6 and 7 of the Copper Hill lode are located from points not on the center or boundary lines of the respective lodes, because a greater degree of accuracy was obtained by adopting the locating points as described herein.

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Variation.

The variation at all corners was 13° E.

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William C. Gritz
U. S. Mineral Surveyor

Tucson, Arizona, July 29, 1909.

Note.

The following is additional data to be appended to the "Note" under title of "Expenditure of Five Hundred Dollars" on Copper Hill Lode.

The system of workings described as Improvements Nos. 2, 6, 7 and 8 on the Copper Hill lode, are by me considered an improvement common to all the lodes of this claim for the following reasons: The physical facts existing on the surface of these lodes show the general slope of the country to be to the S.E. The indications of outcroppings and the indications in the numerous prospect holes on the various lodes, show the veins dipping to the South. The topography of the claim is such that this common improvement is located at nearly the lowest point on the entire claim where any mineral has been found, and the ascent to the W., N.W. and N. thereof is such as to leave that part of the claim lying in those directions from 35 to 120 ft. above the said common improvements.

The topography of the country between the Twin Buttes Railroad (which lies about one mile to the S.) and these workings, is such as to make their location by far the most favorable on the entire claim for advantageous and economical shipping of ore, and an extension of the railroad to these improvements, which I am told is contemplated, is in my opinion very desirable from the standpoint of economical and judicious mining. It is my opinion that by drifting and cross cutting from this common improvement the entire group of 6 lodes in this claim can be developed into a comprehensive and thorough system of mining.

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 and Smelting Company

known as the James G. Blaine, Garfield, Admiral Dewey, The McKinley Copper, Hobson Copper and Copper Hill

and showing the respective capacities in which they acted.

William W. Logan, Chainman.

Manuel A. Martinez, Chainman.

_____, 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 and Smelting Company

known as the James G. Blaine, Garfield, Admiral Dewey, The McKinley Copper, Hobson Copper and Copper Hill

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, Chainman.

Manuel A. Martinez, Chainman.

_____, Axman.

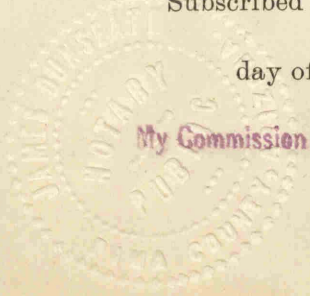
_____, Flagman.

Subscribed and sworn to by the above-named persons before me this 6th

day of August, 1909

My Commission Expires 30th, 1911

James Dunscomb
Notary Public.



FINAL OATH OF U. S. MINERAL SURVEYOR.

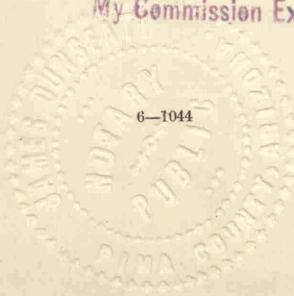
I, William C. Goetz, U. S. Mineral Surveyor,
do solemnly swear that, in pursuance of instructions received from the United States
Surveyor General for Arizona, dated
March 8th. 1909, I have, in strict conformity to the laws of the
United States, the official regulations and instructions thereunder, and the instructions
of said Surveyor General, faithfully and correctly executed the survey of the Mining
Claim of The Twin Buttes Mining and Smelting Company
, known as the
James G. Blaine, Garfield, Admiral Dewey, The McKinley Copper, ,
Hobson Copper and Copper Hill Pima Mining District,
situate in Pima County, Arizona, in Section^s
(25 (17 S. (12 E.
(30 , Township No. (17 S., Range No. (13 E.
(31 (17 S. (13 E.
and designated as Survey No. 2640, as represented
in the foregoing field notes, which accurately show the boundaries of said mining claim
as distinctly marked by monuments on the ground, and described in the attached copy
of the location certificate, which was received by me from the Surveyor General with
said instructions, and that all the corners of said survey have been established and per-
petuated in strict accordance with the law, official regulations and instructions there-
under; and I do further solemnly swear that the foregoing are the true and original
field notes of said survey and my report therein, and that the labor expended and
improvements made upon said mining claim by claimant or its grantors
are as therein fully stated, and that the character, extent, location, and itemized value
thereof are specified therein with particularity and full detail, and that no portion of
said labor or improvements so credited to this claim has been included in the estimate
of expenditures upon any other claim.

William C. Goetz
U. S. Mineral Surveyor.

Subscribed and sworn to by the said *William C. Goetz*
U. S. Mineral Surveyor, before me *James Dunscomb*
Notary Public this 6th
day of August, 1909

My Commission Expires Jan 30th, 1911.

James Dunscomb
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
James G. Blaine, Garfield, Admiral Dewey, The McKinley
are acquainted with the Copper, Hobson Copper & Copper Hill 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 improve-
ments 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 6th

day of August, 1909.



My Commission Expires Jan 30th, 1911.

James D. Dusearth
Notary Public.

AMENDED

NOTICE OF MINING LOCATION

QUARTZ CLAIM.

TO ALL WHOM IT MAY CONCERN:

This Mining Claim, the name of which is the JAMES G. BLAINE 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 1350 feet in a northwesterly direction and 150 feet in a south 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 south easterly to the north westerly.

The claim is situated and located in the Pima Mining District, in Pima County, in the Territory of Arizona, and runs parallel with and joins the southerly side line of the Garfield Mining Company in said district and county.

The surface boundaries of the claim are marked upon the ground as follows: Beginning at a Monument of Stone at a point in a southeasterly direction 150 feet from the discovery shaft (at which this notice is posted), being in the center of the south easterly end line of said claim; thence easterly 300 feet to a monument of stones, being the northeast corner of said claim; thence north westerly 1500 feet to a monument of stones being at the north west corner of said claim; thence southwesterly 300 feet to a monument of stones at the center of the north westerly end of said claim; thence south westerly 300 feet to a monument of stone being at the southwest corner of said claim; thence south easterly 1500 feet to a monument of stone at the south east corner of said claim; thence north easterly 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 James G. Blaine 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 226, 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.M., Record of Mines, page 754:

Ben Henev. County Recorder.

NOTICE OF MINING LOCATION

QUARTZ CLAIM.

TO ALL WHOM IT MAY CONCERN:

This Mining Claim, the name of which is the Garfield 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, the undersigned, on the 8th day of May, 1904.

The length of this claim is 1500 feet, and we claim 250 feet in a southerly direction and 1250 feet in a northerly 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 North to the South.

The claim is situated and located in the Pima Mining District, in Pima County, in the Territory of Arizona, about one mile in a westerly direction from the Twin Buttes Peak and runs parallel with the J. G. Blaine mining claim.

The surface boundaries of the claim are marked upon the ground as follows: Beginning at south end center at a point in a southerly direction, 250 feet from the discovery shaft (at which this notice is posted) being in the center of the south endline of said claim; thence westerly 300 feet to a monument, being the south west corner of said claim; thence northerly 1500 feet to a monument being at the north west corner of said claim; thence easterly 300 feet to a monument being the center of the north end of said claim; thence easterly 300 feet to a monument being at the north east corner of said claim; thence southerly 1500 feet to a monument south east corner of said claim; thence westerly 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 Regise and Codify the Laws of the Territory of Arizona", approved March 16, 1901.

Dated and posted on the ground this 8th day of May, 1904.

The Twin Buttes Mining & Smelting Co.

By Earl B. Rose, Secretary.

Filed and recorded at request of Twin Buttes M. & S.Co.
July 18, 1904, at 2-30 P.M.

Chas. A. Shibell,

County Recorder.

Recorded Book J.J., page 542 et seq.

AMENDED
 NOTICE OF MINING LOCATION
 QUARTZ CLAIM.

TO ALL WHOM IT MAY CONCERN:

This Mining Claim, the name of which is the ADMIRAL DEWEY 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 & 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 fifteen hundred feet, and it claims 1250 feet in a westerly direction and 250 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 westerly.

The claim is situated and located in the Pima Mining District, in Pima County, in the Territory of Arizona, about 500 feet westerly from Twin Buttes and joins the westerly end line of the Copper Hill Mining claim and the south side line of the McKinley 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 an easterly direction 250 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 northeast 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 Admiral Dewey Mining Claim, located by John G. Baxter, John Ellis, Mike Irish, on the 29th day of April, 1896, 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 W. M. McDermott, Gen. Mgr.

2 - Admiral Dewey Mining Claim.

Filed and Recorded at request of F.H.Herford, Feb.11,1909,
at 1:30 P.M., in Book N N , Record of Mines, at Page 747.

Ben Heney,

County Recorder.

The McKinley Copper Mining Claim.

Notice of Mining Location, Quartz Claim. To all whom it may concern

This mining claim, the name of which is the "The McKinley 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 purpose of exploration and purchase by John Ellis, and Michael Irish, the undersigned on the 27th day of June, 1899.

The length of this claim is 1500 feet and we claim 600 feet in an easterly direction and 900 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 easterly to the westerly.

The claim is situated and located in the Pima Mining District, in Pima County, in the Territory of Arizona, about 1000 feet in a westerly direction from Twin Buttes, North of the Dewey and joins the Blaine on the west, Hobson on the east.

The surface boundaries of the claim are marked upon the ground as follows: Beginning at a monument of stones at a point in an easterly direction 600 from the discovery shaft, (at which this notice is posted) being in the center of the east end line of said claim; thence westerly 900 feet to a monument of stone, being the north east corner of said claim; thence westerly 750 feet to a monument of stone at the center of the north side line of said claim; thence westerly 750 feet to a monument of stone being at the north west corner of said claim; thence southerly 300 feet to a monument of stone at the center of the west end of said claim; thence southerly 300 feet to a monument being at the south west corner of said claim; thence easterly 750 feet to a monument of stones being at the center of the south side line of said claim; thence easterly 750 feet to a monument of stones at the S.W. 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. Dated and posted on the ground this 2nd day of August, 1899.

Witness John P. Martin, Jr.,

E. L. Hudson.

John Ellis

Michael Irish.

Filed and recorded at request of John P. Martin, Jr. Sept. 1, 1899, at 11:15 A.M.

Chas. A. Shibell,

County Recorder.

Recorded Book CG, Page 443 et seq.

AMENDED

NOTICE OF MINING LOCATION

QUARTZ CLAIM.

TO ALL WHOM IT MAY CONCERN:

This Mining Claim, the name of which is the HOBSON 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 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 in a westerly direction from Twin Buttes, and joins the east end line of the McKinley Mining Claim and runs parallel with the north side line of the Copper Hill 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 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 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 Hobson Copper Mining Claim, located by John Ellis and Michael Irish, on the 2nd day of August, 1899, and recorded in Book 66 of Records of Mines, at Page 444, 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.

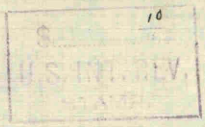
Dated and posted on the ground this twenty-first day of January, 1909.

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 753.

Ben Heney, County Recorder.



Copper Hill Mining Claim.

Amended Certificate of Location.

The undersigned locators of the Copper Hill 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 FF of Records of Mines, page 226, 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, towit:

To all whom it may concern:

This mining claim, the name of which is the Copper Hill 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 750 feet in a westerly direction and 750 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 easterly to westerly.

The claim is situated and located in the Pima Mining District, in Pima County, in the Territory of Arizona, at and

south of the 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 750 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 stone being at the southeast 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 20th, 1895, an act amendatory thereto.

Date of this certificate April 6th, 1899.

Witness Hugh Canney,

Nat Wilde.

John Ellis,

Michael Irish.

Filed and recorded at request of John Ellis, April 7, A.D., 1899, at 7.45 A.M.

Chas. A. Shibell,

County Recorder.

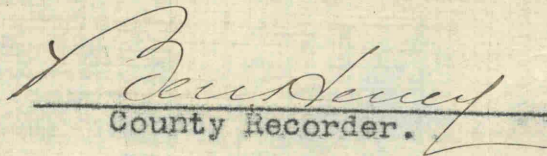
Recorded Book G.G., page 232, et seq.

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 Hill, Hobson Copper, McKinley, Copper, Admiral Dewey, Garfield, James G. Blaine, 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.

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

Department of the Interior,

OFFICE OF U. S. SURVEYOR-GENERAL,

Phoenix, Arizona,

October 20, 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 and Smelting Company

known as the JAMES G. BLAINE, GARFIELD, ADMIRAL DEWEY, THE MCKINLEY COPPER, HOBSON COPPER AND COPPER HILL.

situate in Pima

Mining District, Pima County, Arizona.

in Section s 25 30 31, Township No. 17 S., 17 S., 17 S., Range No. 12 E., 13 E., 13 E., and

designated as Survey No. 2640, 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 28 shafts, 5 cuts and 2 tunnels, total value \$9906.00.

No. 2 shaft, No. 6 shaft, No. 7 cut and No. 8 tunnel on the Copper Hill lode, forming a system of common improvements for the benefit and development of the six claims in this group, an undivided 1/6 interest therein, value \$966.66, is properly credited to each of the claims in this survey.

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

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

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

Frank S. Ingalls,

United States Surveyor-General for Arizona.

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 20, 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

JAMES G. BLAINE, GARFIELD, ADMIRAL DEWEY, THE MCKINLEY COPPER, HOBSON COPPER AND COPPER HILL

situate in PIMA mining district,

PIMA

County,

ARIZONA

in Section S 25 17 S., 12 E. 30 17 S., 13 E. 31 17 S., 13 E.

, designated as Survey No. 2640

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

Surveyor, March 20-23, 1909, under my instructions dated

March 8th, 1909, 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. A true copy of the copy of the location certificate filed by the applicant for

survey is included in the field notes.

Frank S. Goetz

U. S. Surveyor-General for Arizona.