

SEP. 13 1917

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JUL 13 1918

MINERAL SURVEY No. 3381 *Platted*

LOT No. _____

Arizona Land District.

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Arizona Hercules Copper Company

KNOWN AS THE

Satellite No. 2, Wedge No. 2, Prospect and Fraction Lodes

Mineral Creek Mining District,

Pinal County, Arizona

Sections 11, 12, 13 and 14, Township 3 S, Range 13 E. unapproved

Surveyed under instructions dated April 4, 1917

by Oliver C. Thompson

U. S. Mineral Surveyor.

Claim located See location notices, 19

Survey commenced April 20, 1917

Survey completed April 29, 1917

Address of claimant's Atty.; Hampton & Arnold, Phoenix, Ariz.

DATES OF AMENDED LOCATIONS.

All amended March 17 1917

SURVEY NO. 3381.

Feet.

SATELLITE NO. 2 LODE.

Beginning at corner No. 1, identical with cor. 4 of the Thomas lode and the N.E.C. of the Saturn lode, both of sur. No. 1581 - an andesite stone 9x10x24 inches, set 12 inches in the ground, chiseled T-4 - 1581, X at corner point; to which I add 1 - S. No. 2 - 3381, monument of stone alongside, from which U.S.M.M.No. 1 bears S. $3^{\circ}54'$ $30''$ W. 3843.65 feet.

Thence N. $18^{\circ}28'$ W.

284.26 along line 4-3 of the Thomas lode sur. No. 1581. intersect line 3-4 Colorado lode sur. No. 3367 at N. $71^{\circ}13'30''$ E. 3.84 ft. from cor. 4, and S. $71^{\circ}13'30''$ W. 120.16 feet from cor. 3.

299.30 to the W.E.C. identical with the E.E.C. of the Thomas lode sur. No. 1581, a monument of stone containing the base of a 4x4 inch pine post.

495.00 Jimmie's Luck gulch, course SW

598.60 to cor. No. 2, identical with corners No. 3 of the Thomas lode, and 4 of the Contention lode, both of sur. No. 1581, on line 1-4 of the Colorado lode, sur. No. 3367, a sandstone 12x12x18 inches set flatwise 6 inches in the ground to bedrock, chiseled C-4, T-3, 1581, to which I add S. No. 2-2-3381 Cor. No. 2, Sweepstake lode, sur. No. 2572 A, bears N. $86^{\circ}21\frac{1}{2}'$ E. 558.93 ft. No other bearings available

Thence N. $71^{\circ}56'$ E.

120.00 Jimmie's Luck gulch, course SW

124.00 intersect line 2-3 Colorado lode, common with line 4-1 Adventure lode, both of sur. No. 3367 at N. $17^{\circ}46'$ W. 312.89 ft. from the common corner 3 and 4, respectively,

569.50 intersect line 4-1 of the Juarez lode, sur. No. 3367 at N. $11^{\circ}3'W$. 152.28 ft. from cor. 4; and 134.13 ft. from its intersection with line 2-3 Sweepstake lode sur. No. 2572 A.

- 723.92 intersect line 2-3 of the Adventure lode, sur. No. 3367 at N. 17°46'W. 305.85 ft. from cor. 3, (from which line 3-4 of said lode bears S. 71°15'30"W. 93.25 ft. to its intersection with line 1-2 of the Sweepstake lode, sur. No. 2572 A, and 600 ft. to cor. No. 4), 186.27 ft. from its intersection with line 3-4 of the Juarez lode sur. No. 3367 and 44.77 ft. from its intersection with line 2-3 of the Sweepstake lode sur. No. 2572 A.
- 810.42 intersect line 2-3 of the Sweepstake lode sur. No. 2572 A at N. 44°33' E. 302.73 ft. from cor. No. 2, 289.44 ft. from its intersection with line 4-1 Juarez lode sur. No. 3367 and 97.34 ft. from its intersection with line 2-3 of the Adventure lode sur. No. 3367.
- 1172.16 intersect line 2-3 of the Juarez lode sur. No. 3367 at N. 11°3' W. 273.23 ft. from cor. No. 3, from which, line 3-4 of the said lode bears S. 83°28'W. 424.40 ft. to its intersection with line 2-3 of the Adventure lode sur. No. 3367 and 600.00 ft. to cor. No. 4.
- 1316.21 to cor. No. 3, a porphyry stone 6x12x24 inches, set 12 inches in the ground, chiseled S. No. 2-3 3381, X at cor. point, monument of stone alongside. Cor. No. 3 Juarez lode sur. No. 3367 bears S. 15°08'W. 324.09 ft. No other bearings available.
Thence S. 18°28' E.
- 299.30 E.E.C., a monument of stone.
- 397.12 to cor. No. 4 on line 5-1 Sweepstake lode sur. No. 2572 A identical with cor. No. 3 Wedge No. 2 lode and with cor. No. 2 Prospect lode, both of this survey. A quartz-vein veined porphyry stone 7x7x15 inches, set 9 inches in the ground, chiseled W. No. 2-3, S. No. 2-4, P-2 3381, X on top at common cor. point. No bearings available.
Thence S. 43°32'30"W.
On line 5-1 Sweepstake lode sur. No. 2572 A.
- 232.00 N.E.C. Wedge No. 2 lode of this sur.
- 423.83 cor. No. 5, a sandstone 10x12x14 inches, set 4 inches in

Feet. the ground to bedrock, chiseled S. No. 2-5 3381, X at
 cor. point, a monument of stone alongside. The cor. of
 Sections 11, 12, 13 and 14, T. 3 S., R. 13 E., unapproved,
 bears S. 12°55'E. 222.95 ft. (~~This corner is an iron
 post, surmounted by a brass cap, marked according to G.L.
 O. regulations.~~) No other bearings available.

Thence S. 71°56' W.

34.55 point for cor. 3 Satellite lode sur. No. 1581 in Blue-
 bell gulch, course westerly.

164.75 intersect line 1-2 Sweepstake lode sur. No. 2572 A at
 S. 45°41'30"E. 329.24 ft. from its intersection with line
 3-4 Adventure lode sur. No. 3367 and 519.50 ft. from
 cor. No. 2.

327.41 N.E.C. Satellite ^{lode} sur. No. 1581, a 4x4 inch pine post in
 mound of stone, scribed N.E.C.S. In good condition.

589.14 cor. No. 2 Satellite ^{lode and Cor. N°3 Saturn lode} sur. No. 1581, a 4x4 inch pine post
 in mound of stone, scribed S-2 ^{S-3} 1581. In good condition.

860.00 Bluebell gulch course South;

941.72 to cor. No. 1, place of beginning.

WEDGE NO. 2 LODE.

Beginning at cor. No. 1 on line 3-4 of Satellite
 lode sur. No. 1581 and line 2-3 of the Little Frank lode
 sur. No. 2466 at S. 36°57'30"W. 376.77 ft. from cor.
 No. 3 and 223.07 ft. from its intersection with line 1-2
 of the Copper Carbonate lode sur. No. 2572 A, an andesite
 stone 10x10x30 inches, set 18 inches in the ground,
 chiseled W-No. 2-1 3381, X at corner point, monument of
 stone alongside. Cor. No. 4 of Satellite lode sur. No.
 1581 bears S. 17°52½' E. 57.02 ft. Cor. No. 2 of the
 Copper Carbonate lode sur. No. 2572 A bears N. 15°17'W. 379
 379.63 ft. U.S.M.M. No. 1 bears S. 29°25' W. 3176.64
 ft. No other bearings available.

Thence N. 17°52½'W.

Along line 4-3 of Satellite lode Sur. No. 1581.

Feet	
1367.85	Witness cor., a sandstone 7x12x28 inches set 18 inches in the ground, chiseled WC-W No. 2-2 L. 31.29, monument of stone alongside. (This is also the W.C. for cor. No. 3 Satellite lode sur. No. 1581 as re-established by me. See Report)
1399.14	point for cor. No. 2 in bed of Bluebell gulch where a monument would be liable to destruction by floods. No bearings available. Witness corner, heretofore described, brs. S. 17°52'30"E. Thence N. 43°32'30" E. 31.29 ft.
15.00	main channel Bluebell gulch course West.
39.35	cor. No. 5 Satellite No. 2, this survey previously described.
231.18	N.E.C., a monument of stone.
463.18	to cor. No. 3, identical with cor. No. 4 Satellite No. 2, this survey, previously described, and with cor. No. 2 of Prospect lode, this survey. Thence S. 17°52'30"E.
365.00	Bluebell gulch course Westerly;
989.40	to corner No. 1 Prospect lode, this sur. on line 2-3 Copper Carbonate lode sur. No. 2572 A, at N. 39°13'30" E. 464.07 ft. from cor. No. 2;
1392.19	intersect line 1-2 Fraction lode of this sur. at S. 2° 37'W. 225.74 ft. from cor. No. 2;
1399.14	to cor. No. 4, a limestone 12x12x22 inches, set 12 inches in the ground, chiseled W. No. 2-4 3381, X at cor. point, monument of stone alongside. No bearings available. Thence S. 43°32'30"W.
3.71	intersect line 1-2 Fraction lode of this sur. at S. 2° 37' W. 235.05 feet from cor. No. 2;
83.93	intersect line 3-4 Little Frank lode, sur. No. 2466 at S. 53°01' E. 43.48 ft. from cor. No. 3;
232.00	S.E.C. a monument of stone;
239.44	intersect line 1-2 of the Copper Carbonate lode sur. No. 2572 A, at S. 51°15'E. 325.94 feet from cor. No. 2 and 25.65 feet from its intersection with line 2-3 of the Little Frank lode, Sur. No. 2466.
463.18	to cor. No. 1, the place of beginning.

Feet

PROSPECT Lode.

Beginning at Cor. No.1, at the intersection of line 3-4 Wedge No.2 lode of this survey. and line 2-3 Copper Carbonate lode, Sur. No. 2572 A, at N. 39° 13' 30" E. 464.07 ft. from Cor. No. 2. An andesite stone 8 x 10 x 20 ins., set 12 ins. in the ground, chiseled P-1-3381, X at corner point, a monument of stone alongside.

U. S. M. M. No. 1 bears S. 26° 39' 35" W. 3098.21 ft.

No other bearings available.

Thence N. 17° 52' 30" W.

along line 4-3 Wedge No. 2 lode of this survey.

621.40 Bluebell Gulch, course westerly.

989.40 Cor. No. 2, identical with Cor. No.4 Satellite No.2 lode and Cor. No. 3 Wedge No. 2 lode, both of this survey, and previously described.

Thence N. 43° 32' 30" E.

along line 1-5 Sweepstake lode, Sur. No. 2572 A.

341.64 N. E. C., a monument of stone.

368.61 Cor. No.3 on line 1-2 of Copper Nugget lode, Survey No. 2572 A, at N. 3° 10' 30" E. 637.78 ft. from Corner No. 1. A quartzite stone 6 x 12 x 22 ins., set 12 ins. in the ground, chiseled P-3-3381, X at corner point, monument of stone alongside. No bearings available.

Thence S. 37° 26' 15" E.

625.00 Bluebell Gulch, course W.S.W.

825.22 To Cor. No. 4, a quartz-porphry stone 9 x 9 x 20 ins., set 12 ins. in the ground, chiseled P-4-3381, X at corner point, monument of stone alongside. On line 2-3 Copper Carbonate lode, Sur. No. 2572 A, N. 39° 13' 30" E. 1181.68 ft. from Cor. No. 2. No bearings available.

Thence S. 17° 52' 30" E.

61.27 To Cor. No. 5, a sandstone 4 x 12 x 24 ins., set 12 ins. in the ground, chiseled P-5-3381, X at corner point, monument of stone alongside. No bearings available.

Thence S. 43° 32' 30" W.

341.64 S. E. C., a monument of stone.

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

Feet

FRACTION Lode.

Beginning at Cor. No. 1, a quartzite stone 10 x 12 x 17 ins., set 10 ins. in the ground, chiseled F-1-3381, X at corner point, monument of stone alongside. Whence, U. S. M. M. No.1 bears S. 44° 38' 15" W. 2589.26 ft. Cor. No. 3 Copper Contact lode, Sur. No. 2466, bears N. 20° 33' E. 585.58 ft. Cor. No.2 Fraction lode, Sur. No. 2466 bears N. 4° 02' 20" E. 192.35 ft. No other bearings available.

Thence N. 2° 37' E.

- 190.48 Intersect line 1-2 Fraction lode, Sur. No. 2466, S. 73° 25' W. 5.47 ft. from Cor. No. 2.
- 293.78 Intersect line 1-4 Little Frank lode, Sur. No. 2466, at S. 37° 00' 45" W. 717.04 ft. from Cor. No.4, and 319.16 ft. from Cor. No.3 Copper Contact lode, Sur. No. 2466, on line 1-4 Little Frank lode.
- 419.95 Intersect line 2-3 Copper Contact lode, Sur. No. 2466, at S. 55° 21' W. 226.55 ft. from Cor. No. 3.
- 968.15 Intersect line 1-2 Copper Carbonate lode, Sur. No. 2572 A at N. 51° 15' W. 70.08 ft. from Cor. No. 1. From said Cor. No.1, Cor. No. 5 Copper Carbonate lode, bears N. 39° 16' 45" E. 162.67 ft.
- 1162.45 Intersect line 3-4 Little Frank lode, Sur. No. 2466, at N. 53° 01' W. 490.72 ft. from Cor. No. 4, and 186.24 ft. from Cor. No.5 Copper Carbonate lode, Sur. No. 2572 A.
- 1258.95 Intersect line 4-1 Wedge No.2 lode of this survey at S. 43° 32' 30" W. 3.71 ft. from Cor. No. 4.
- 1268.26 Intersect line 3-4 Wedge No. 2 lode of this survey, at N. 17° 52' 30" W. 6.95 ft. from Cor. No. 4.
- 1494.00 Cor. No. 2, a quartzite or altered sandstone 10 x 12 x 20 ins., set 12 ins. in the ground, chiseled F-2-3381, X at corner point. A monument of stone alongside. Cor. No.4 of Wedge No.2 lode, this survey, bears S. 2° 01' W. 232.26 ft.
- Thence S. 87° 23' E.
- 300.00 N. E. C., a monument of stone.

Feet	
490.00	To Cor. No. 3, identical with the East Side Center of Copper Carbonate lode, Sur. No. 2572 A, which is N. 40° 13' E. 551.15 ft. from Cor. No. 5 thereof, also identical with the N. W. Cor. of Schillings Best lode, unsurveyed, a sandstone 4 x 9 x 22 ins., set 12 ins. in the ground, chiseled CESSC X at corner point, to which I add F-3-3381, a monument of stone alongside. Cor. No.4 Little Frank lode, Sur. No. 2466, bears S. 10° 33' 45" W. 614.45 ft. No other bearings available.
	Thence S. 2° 37' W.
	along the west line of Schillings Best lode, unsurveyed.
505.00	Gulch, course SW.
1145.00	Gulch, course SW.
1343.90	Intersect line 3-4 Copper Contact lode, Sur. No. 2466 at S. 34° 39' E. 511.46 ft. from Cor. No. 3.
1494.00	To Cor. No. 4, a quartzite stone 8 x 10 x 24 ins., set 12 ins. in the ground, chiseled F-4-3381, X at corner point, monument of stone alongside. No bearings available. S. W. Corner Schillings Best lode, unsurveyed, bears S. 2° 37' W. 6 ft., a monument of stone.
	Thence N. 87° 23' W.
190.00	S. E. C., a monument of stone.
310.00	Gulch, course south.
437.31	Intersect line 2-3 Fraction lode, Sur. No. 2466, S. 11° 16' E. 198.06 ft. from Cor. No. 2.
490.00	To Cor. No.1, the place of beginning.

All the corners and end centers of this survey are identical with their respective locations.

LODE LINES.

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

Satellite No.2 lode, S. 71° 56' W. 475 ft., and N. 71° 56' E. 841.21 ft.

Wedge No.2 lode, N. 17° 52' 30" W. 167 ft., and S. 17° 52' 30" E. 1232.14 ft.

Prospect lode, N. 71° 52' 30" W. 791.40 ft., and S. 17° 52' 30" E. 195 ft.

Fraction lode, N. 2° 37' E. 280 ft., and S. 2° 37' W. 1214 ft.

Magnetic variation at all corners, 14° 20' E.

INSTRUMENT.

This survey was made with a Buff & Buff Transit No. 5998, having horizontal and vertical circles, reading by verniers to single minutes, and all measurements were made with 5, 100 and 500 ft. steel tapes.

AREAS.	Acres.
Total area Satellite No. 2 lode,	17.220
Area in conflict with:	
Sweepstake lode, Sur. No. 2572 A,	8.113
Colorado lode, Sur. No. 3367	0.879 ✓
Adventure lode, Sur. No. 3367,	4.261 ✓
Juarez lode, Sur. No. 3367,	2.921 ✓
Juarez lode, Sur. No. 3367, exclusive of its conflict with Adventure lode, Sur. No. 3367,	2.285 ✓
Juarez lode, Sur. No. 3367, exclusive of its conflict with Sweepstake lode, Sur. No. 2572 A,	0.367 ✓
Adventure lode, Sur. No. 3367, exclusive of its conflict with Sweepstake lode, Sur. No. 2572 A,	3.535 ✓
Juarez lode, Sur. No. 3367, exclusive of its conflict with Adventure lode, Sur. No. 3367, and Sweepstake lode, Sur. No. 2572 A.	0.044 ✓
Total area Wedge No.2 lode,	13.064
Area in conflict with;	
Fraction lode, this survey, nominal,	0.000+
Copper Carbonate lode, Sur.No.2572 A	2.725 ✓
Little Frank lode, Sur. No. 2466,	0.188 ✓
Copper Carbonate lode, Sur.No.2572 A, exclusive of its conflict with Little Frank lode, Sur.No.2466,	2.603 ✓
Fraction lode, this survey, exclusive of its conflict with Copper Carbonate lode, Sur. No. 2572 A,	0.000 ✓

Total area Prospect lode,	10.685 ✓
Area in conflict with;	
Copper Nugget lode, Sur.No.2572 A,	3.932 ✓
Copper Carbonate lode, Sur.No.2572A,	0.422 ✓
Total area Fraction lode,	16.806
Area in conflict with;	
Copper Carbonate lode, Sur.No.2572 A,	3.515 ✓
Little Frank lode, Sur.No.2466,	4.039 ✓
Copper Carbonate lode, Sur. No.2572 A, exclusive of its conflict with	
Little Frank lode, Sur.No.2466,	3.041 ✓
Copper Contact lode, Sur. No.2466,	4.536 ✓
Copper Contact lode, Sur.No.2466, exclusive of its conflict with	
Little Frank lode, Sur.No.2466,	4.275 ✓
Fraction lode, Sur. No. 2466,	0.128 ✓
Copper Contact lode, Sur. No.2466, exclusive of its conflict with	
Fraction lode, Sur. No. 2466.	4.408 ✓

LOCATION.

This survey is located in Secs. 11, 12, 13 and 14,
T. 3 S., R. 13 E., unapproved, Pinal County, Arizona.

EXPENDITURE OF FIVE HUNDRED DOLLARS.

I certify that the value of the labor and improve-
ments made upon each of the locations embraced in said
mining claim by the claimant or its grantors is not less
than five hundred dollars and that said improvements con-
sist of;

Satellite No.2 lode.

No.1, discovery cut and tunnel, the breast of tunnel
being the discovery point is on the lode line at N. 71°
56' E. 475 ft. from the W. E. C. From this point, the
tunnel 4 x 6 feet extends S. 20° W. 51 ft. to face of
open cut, cut 4 x 12 x 12 ft. face, extends same course
12 ft. to mouth. Value, \$585.00

WEdge No. 2 lode.

No.1, discovery cut and tunnel, the mouth of cut
4 x 16 x 11 ft., face is on the lode line S. 17° 52' 30"
E. 167 ft. from N. E. C., and the center line of cut and
tunnel bears N. 4° 30' E. 16 ft. to portal of tunnel 4 x
6 x 78 ft., thence 78 ft. to breast of tunnel.
Value, \$840.00

No.2, cut and tunnel, from Cor. No.2 mouth of cut bears S. 85° 22' E. 276 ft. Center line of cut and tunnel bears thence N. 10° 50' E., cut 6 x 28 x 16 ft. face, tunnel 4 x 6 x 82 ft. Value, \$970.00

No.3, cut and tunnel, from Cor. No.2 mouth of cut bears S. 74° E. 366 ft., center line of cut and tunnel bears thence S. 0° 15' W., cut 4 x 25 x 8 ft. face, tunnel 4 x 6 x 83 ft. Value, \$880.00

No.4, cut and tunnel, from corner No.2 mouth of cut bears S. 59° 30' E. 578 ft. Center line of cut and tunnel bears thence S. 26° 13' W., cut 4 x 23 x 12 ft. face, tunnel 4 x 6 x 76 ft. Value, \$860.00

Prospect lode.

No.1, discovery cut and tunnel, the discovery point in the breast of tunnel is on the lode line at N. 17° 52' 30" W. 195 ft. from S. E. C. Center line of tunnel and cut bears thence S. 71° 38' W. tunnel 4 x 6 x 30 feet, cut 4 x 32 x 13 ft. face. Value, \$450.00

No.2, cut and tunnel. From Cor. No. 2 the mouth of cut bears S. 23° E. 340 ft. Center line of cut and tunnel bears thence N. 12° 34' E. Cut 5 x 12 x 13 ft. face, tunnel 4 x 6 x 39 ft. Value, \$455.00

Fraction lode.

No.1, discovery cut and tunnel, mouth of cut is on the lode line at S. 2° 37' W. 280 ft. from the N.E.C. Center line of cut and tunnel bears N. 55° 08' E. Cut 4 x 30 x 9 ft. face, tunnel 4 x 6 x 60 ft. Value, \$700.00

No.2, cut, from Cor. No.3 mouth of cut bears S. 12° W. 534 ft. Center line of cut bears thence N. 27° 30' W. cut 4 x 50 x 8 ft. face. Value, \$100.00

ADJOINING CLAIMS.

This survey is bounded on the north by the Colorado, Adventure and Juarez lodes, Sur. No. 3367 and the Sweep-stake lode, Sur. No. 2572 A, on the east by the Copper Nugget and Copper Carbonate lodes, Sur. No. 2572 A, and

the Schillings Best lode, unsurveyed, B. F. Schilling, owner; on the south and west by the Copper Contact, ^{Fraction} and Little Frank lodes, Survey No. 2466 and the Satellite, Saturn and Thomas lodes, Survey No. 1581.

REPORT.

The difference between the survey of this claim and of adjoining and conflicting claims, are due to errors in the latter.

All of the corners of the adjoining and conflicting claims, which are referred to in these notes, are as described in the respective surveys thereof, except the following;

Corner No.3 of the Thomas lode, identical with Cor. No.4 Contention lode, both of Survey No. 1581. The post was badly decayed and leaning much out of the vertical position. I replaced same with a sandstone 12 x 12 x 18 ins. set flatwise 6 ins. in the ground to bedrock, chiseled C 4 T 3, 1581, X at corner point as indicated by the center of the base of the old post; a monument of stone alongside.

Cor. No.4 of the Thomas lode, identical with the N.E.C. of the Saturn lode, both of Survey No. 1581. This corner was indicated by a md. of stone only, the post having disappeared. The E.E.C. of the Thomas lode being indicated by a rotten base of a 4 x 4 in. post in a mound of stone, I produced the line 3-4 from Cor. No.3 to the E.E.C. as indicated by the center of the base of post, 299.35 ft. and continued same to 598.70 ft. to point for Cor. No.4, which fell in practically the center of the mound of stone above mentioned. At this point I set an andesite stone 9 x 10 x 24 ins., 12ins. in the ground, chiseled T 4, 1581, X at cor. point, monument of stone alongside.

Cor. No.3 Satellite lode, Survey No. 1581. This corner is entirely obliterated. Cor. No.2 and the N.E.C. of said lode are in good condition. I find the distance

from Cor. No. 2 to the N. E. C. to be 261.73 ft. instead of 300 ft. as shown by the field notes. This being such a large discrepancy, I do not feel justified in reestablishing Cor. No. 3 at an equal distance from the N.E.C. Cor. No. 2 and the S.E.C. are in good condition. I therefore proceed to run a line from Cor. No. 4 N. 17° 52' 30" W. parallel to the center line as indicated by the two end centers. At 1474.87 this line intersects a line produced from Cor. No. 2 through the N. E. C., and at point of intersection I re-establish Cor. No. 3. This point being in the bed of Bluebell Gulch, a monument of any kind would be subject to destruction by floods, therefore I set a W. C. on line 3-4, S. 17° 52' 30" E. 50 ft. from true corner point, a sandstone 7 x 12 x 28 ins., set 18 ins. in the ground, chiseled W.C. 50' S 3 1581, X at corner point, monument of stone alongside. This is also the W. C. for Corner No. 2 Wedge No. 2 lode as described in the field notes thereof.

Center East Side of Copper Carbonate lode, Survey No. 2572 A. The post in a mound of stone is rotted off at the base and leaning badly from a vertical position. I replace same with a sandstone 4 x 9 x 22 ins., set 12 ins. in the ground, chiseled C.E.S. CC, X at corner point, which I assume to be the center of the base of post. This is identical with Cor. No. 3 of the Fraction lode of this survey and with the N. W. corner of Schillings Best lode, B. F. Schilling, owner.

Insert * below

O. C. Thompson,

U. S. Mineral Surveyor.

* The Cor. of Secs. 11, 12, 13 and 14. T. 3 S., R. 13 E., unapproved, is an iron post, surmounted by a brass cap, marked according to G. L. O. regulations.

FINAL OATHS FOR SURVEYS.

LIST OF NAMES.

A list of the names of the individuals employed by Oliver C. Thompson

United States ~~Deputy~~ 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.....

Arizona Hercules Copper Company

known as the Satellite No 2, Wedge No 2, Prospect, Fraction lodes

and showing the respective capacities in which they acted.

Lee Niles....., Chainman.

D. M. Johnson....., Chainman.

....., Axman.

....., Flagman.

FINAL OATHS OF ASSISTANTS.

We, Lee Niles and D. M. Johnson

and....., do solemnly swear that we assisted Oliver C.

Thompson....., United States ~~Deputy~~ Mineral Surveyor, in marking the corners and surveying the boundaries of the mining claim of.....

Arizona Hercules Copper Company

known as the Satellite No 2, Wedge No 2, Prospect, Fraction lodes

represented in the foregoing field notes as having been surveyed by said ~~deputy~~ 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 instructions furnished by the United States Surveyor-General for Arizona

L. Niles....., Chainman.

D.M. Johnson....., Chainman.

....., Axman.

....., Flagman.

Subscribed and sworn to by the above-named persons before me this 20

day of April, 19 17

Roboyett
Notary Public



(4-686.)

FINAL OATH OF U. S. ~~DEPUTY~~ MINERAL SURVEYOR

I, Oliver C. Thompson, U. S. ~~Deputy~~ Mineral Surveyor, do solemnly swear that, in pursuance of instructions received from the United States Surveyor General for Arizona, dated April 4 1917, 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 Arizona Hercules Copper Company, known as the Satellite No 2 Wedge No 2, Prospect and Fraction Lodes, situate in Mineral Creek Mining District, Pinal County, Arizona, in Sections 11, 12, 13 & 14 Township No. 3 S, Range No. 13 E. unapproved, and designated as Survey No. 3381, as represented in the foregoing field notes, which accurately show the boundaries of said mining claim as distinctly marked by monuments on the ground, and described in the attached copy of the location certificate, which was received by me from the Surveyor General with said instructions, and that all the corners of said survey have been established and perpetuated in strict accordance with the law, official regulations and instructions thereunder; and I do further solemnly swear that the foregoing are the true and original field notes of said survey and my report therein, and that the labor expended and improvements made upon said mining claim by claimant or its grantors are as therein fully stated, and that the character, extent, location and itemized value thereof are specified therein with particularity and full detail, and that no portion of said labor or improvements so credited to this claim has been included in the estimate of expenditures upon any other claim.

Oliver C. Thompson
 U. S. ~~Deputy~~ Mineral Surveyor.

Subscribed and sworn to by the said Oliver C. Thompson,
 U. S. ~~Deputy~~ Mineral Surveyor, before me, Edith R. C. Hickey,
 a Notary Public, this 14th
 day of September, 1917.

Edith R. C. Hickey
 Notary Public

(My Commission expires
 Oct. 14, 1920)



APR 15 1917

AMENDED

Notice of Mining Location

LODE CLAIM

TO ALL WHOM IT MAY CONCERN:

This Mining Claim, the name of which is the Satellite No. 2 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 Arizona Hercules Copper Company, a Corporation organized and existing under and by virtue of the Laws of the State of Arizona. (Locator must insert either "a citizen of the United States," or "who has declared his intention to become a citizen of the United States.")

the undersigned, on the 17th day of March, 1917.

The length of this claim is 1316.62 feet, and we claim 475 feet, in a South 71°56" W direction and 841.62 feet in a N 71° 56" E direction from the breast tunnel the mouth of 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 E end center S 71°56" W 1316.62-ft to the West end center

The claim is situated and located in the Mineral Creek Mining District, in Pinal County in the State of Arizona, about 1/4 mile east of the in a easterly direction from Town of Ray

The surface boundaries of the claim are marked upon the ground as follows: Beginning at a point being the southwest corner from which USMM No. 1, mining district aforesaid bears S-3°54' W, 3843.85-ft, thence N-16°30' W 598.70-ft, thence N-71°56' E 1316.62-ft thence S-18°30' E 397.22-ft, thence S-44°32' W 423.83-ft, thence S-71°56' W 942.22-ft to place of beginning. All corners marked by substantial monuments of Stone, at a point in a direction feet from the discovery shaft (at which this notice is posted), being in the center of the end line of said claim; thence feet to a corner of said claim; thence feet to a corner of said claim; thence feet to a corner of said claim; thence feet to a corner of said claim; thence feet to a corner of said claim; thence feet to a corner of said claim; thence feet to the place of beginning.

All done under the provisions of the laws of the United States, and of the State of Arizona.

This is an Amended Location Notice of the Satellite No. 2 Mining Claim, located by E. G. Thomas on the 26th day of April, 1907, and recorded in Book 25 of Records of Mines, at page 387, in the office of the County Recorder of the aforesaid County of Pinal 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 17th day of March, 1917.

ARIZONA HERCULES COPPER COMPANY
BY [Signature]
General Manager.

STATE OF ARIZONA,

County of ss.

I,, County Recorder in and for the County and State aforesaid, do hereby certify that the within instrument was filed for record at o'clock M., on this day of, 19....., and duly recorded in Book No. of Records of County, Arizona, at pages

WITNESS my hand and official seal the day and year first above written.

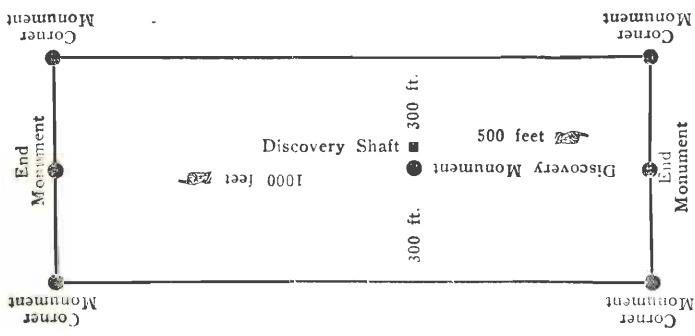
.....
County Recorder.

INDEXED
COMPARED

AMENDED

Notice of Location
LODE CLAIM

Dated, 19.....
Filed and Recorded at request of, A. D. 19.....
at M.,
Book
Pages
County Recorder.
Deputy Recorder.



This diagram is to give locator a general idea of plan of location under the new law. The Discovery Shaft can be in the center of claim or any distance from either end desired. In the diagram it is placed 500 feet from one end and 1000 feet from the other. Commence description of claim at a center end monument, giving its distance and direction from center of Discovery Shaft; thence bound the claim in either direction. In description be careful to state locality of claim with reference to some natural object, or permanent monument, as will identify the claim.

STATE OF ARIZONA, }
County of Pinal } ss.
I, W. L. BROWN, Recorder in and for the County of Pinal, State aforesaid, do hereby certify that the annexed instrument was filed and recorded at request of W. L. Adams on the 21 day of MAR 1917 at MINES minutes past 9 o'clock A.M., in Book No. 544 of MINES Page 33
WITNESS my hand and official seal day of MAR 1917
W. L. BROWN
Recorder.
By W. L. Brown Deputy.

AMENDED

Notice of Mining Location

LODE CLAIM

TO ALL WHOM IT MAY CONCERN:

This Mining Claim, the name of which is the Wedge No. 2 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 Arizona Hercules Copper Company, a Corporation, organized and existing under and by reason virtue of the Laws of the State of Arizona.

(Locator must insert either "a citizen of the United States," or "who has declared his intention to become a citizen of the United States.")

the undersigned, on the 17th day of March, 1917.

The length of this claim is 1399.14 feet, and we claim 167 feet, in a N-17° 52 1/2" W direction and 1232.14

feet in a S-17° 52 1/2" E direction from the mouth of the discovery shaft cut & tunnel, at which this notice is posted, lengthwise of the claim, together with 200-ft in a westerly and 206.73-ft easterly 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 S. End Cent. N 17° 52 1/2" W 1399.14-ft to the North end center

The claim is situated and located in the Mineral Creek Mining District, in Pinal County in the State of Arizona, about 1/2 mile in a easterly direction from the Town of Ray

The surface boundaries of the claim are marked upon the ground as follows: Beginning at a point being S.W. cor. from which USMM N. 1 mining district aforesaid bears S 29° 25' W 3176.54-ft, thence N-17° 52 1/2" W, 1399.14-ft, thence N-43° 32 1/2" E 463.18-ft thence S-17° 52 1/2" E 1399.14-ft thence S-43° 32 1/2" W 463.18-ft to place of beginning all corners marked by substantial monuments of stone.

at a point in a direction feet from the discovery shaft (at which this notice is posted), being in the center of the end line of said claim; thence feet to a corner of said claim; thence feet to a corner of said claim; thence feet to a corner of said claim; thence feet to a corner of said claim; thence feet to a corner of said claim; thence feet to the place of beginning.

All done under the provisions of the laws of the United States, and of the State of Arizona.

This is an Amended Location Notice of the Wedge No. 2 Prospect & E. Satellite Mining Claim, located by PA. Schilling 9-15-06 on the 4-24-07 day of 4-26-07 19, and recorded in Book 24 of Records of Mines, at page 480, 389, 386 in the office of the County Recorder of the aforesaid County of Pinal 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 17th day of March, 1917.

ARIZONA HERCULES COPPER COMPANY

BY [Signature] General Manager.



STATE OF ARIZONA,

County of ss.

I,, County Recorder in and for the County and State aforesaid, do hereby certify that the within instrument was filed for record at o'clock M., on this day of, 19....., and duly recorded in Book No. of Records of County, Arizona, at pages

WITNESS my hand and official seal the day and year first above written.

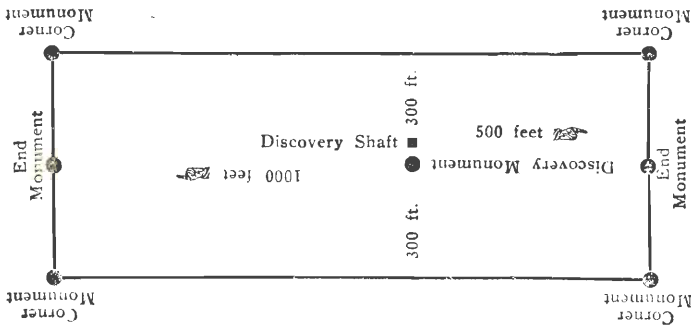
County Recorder.

COMPARED
INDEXED

AMENDED

Notice of Location
LODE CLAIM

Dated, 19.....
Filed and Recorded at request of, A. D. 19.....
at M.,
Book
Pages
County Recorder.
By Deputy Recorder.



This diagram is to give locator a general idea of plan of location under the new law. The Discovery Shaft can be in the center of claim or any distance from either end desired. In the diagram it is placed 500 feet from one end and 1000 feet from the other. Commence description of claim at a center end monument, giving its distance and direction from center of Discovery Shaft; thence bound the claim in either direction. In description be careful to state locality of claim with reference to some natural object, or permanent monument, as will identify the claim.

STATE OF ARIZONA, }
County of Pinal } ss.

I, W. L. BROWN, Recorder in and for the County of Pinal, State aforesaid, do hereby certify that the annexed instrument was filed and recorded at request of W. L. Adams on the MAR 2 day of MAR 2 1917 A. D., 1917 at Mines past 9 o'clock A. M. in Book No. 23 of MINES Page 539

WITNESS my hand and official seal MAR 2 1917

W. L. BROWN
Recorder.

By W. L. Bensen Deputy

APR 5-1917

AMENDED
Notice of Mining Location
LODE CLAIM

TO ALL WHOM IT MAY CONCERN:

This Mining Claim, the name of which is the Prospect
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 Arizona Hercules Copper Company, a Corporation, organized and existing
under and by virtue of the laws of the State of Arizona.

(Locator must insert either "a citizen of the United States," or "who has declared his intention to become a citizen of the United States.")

the undersigned, on the 17th day of March, 1917.

The length of this claim is 989.4 feet,
and we claim 864.4 feet,
in a N-17° 52 1/2" W direction and 125
feet in a S 17° 52 1/2" E direction from
the breast of the discovery tunnel shaft, at the mouth 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
S end center N-17° 52 1/2" W 989.4 -ft to the North end center

The claim is situated and located in the Mineral Creek Mining District, in
Pinal County in the State of Arizona, about one half mile
in a easterly direction from Town of Ray

The surface boundaries of the claim are marked upon the ground as follows: Beginning at
a point, the S.W. Corner from which USMM No.1, mining district aforesaid bears
S 28° 17' W 3966.20-ft, thence N-17° 52 1/2" W, 989.4-ft, thence N-43° 32 1/2" E 831.79-ft
thence S-37° 26" E, 825.15-ft, thence S-17° 52 1/2" E 61.27-ft, thence S-43° 32 1/2" W 683.21-ft
to place of beginning, all corners marked by substantial stone monuments
at a point in a _____ direction _____ feet from
the discovery shaft (at which this notice is posted), being in the center of the _____
end line of said claim; thence _____ feet to a _____
_____, being the _____ corner of said claim; thence
_____ feet to a _____ being at the
_____ corner of said claim; thence _____ feet
to a _____ at the center of the _____ end of said claim;
thence _____ feet to a _____ being at the
_____ corner of said claim; thence _____ feet
to a _____ at the _____ corner of said claim;
thence _____ feet to the place of beginning.

All done under the provisions of the laws of the United States, and of the State of Arizona.

This is an Amended Location Notice of the Wedge, Prospect and Wedge No.2
Mining Claims located by P.A.Schilling

_____ on the 9-15-06
24 day of 4-24-07
_____, 19____, and recorded in Book 25 of Records of Mines, at
25 page 480, in the office of the County Recorder of the aforesaid County of Pinal
389
385 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 17th day of March, 1917.

Arizona Hercules Copper Company
BY [Signature]
General Manager.

STATE OF ARIZONA,

County of

ss.

I,, County Recorder in and for the County and State aforesaid, do hereby certify that the within instrument was filed for record at o'clock M., on this day of, 19....., and duly recorded in Book No. of Records of County, Arizona, at pages

WITNESS my hand and official seal the day and year first above written.

County Recorder.

COMPARED INDEXED

AMENDED

Notice of Location
LODE CLAIM

Dated, 19.....

Filed and Recorded at request of

..... A. D. 19.....

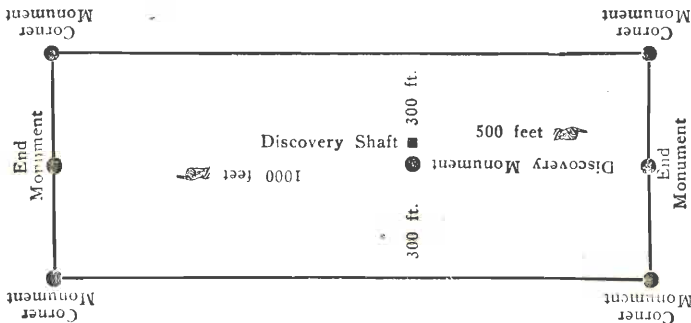
at M.,

Book

Pages

County Recorder.

By Deputy Recorder.



This diagram is to give locator a general idea of plan of location under the new law. The Discovery Shaft can be in the center of claim or any distance from either end desired. In the diagram it is placed 500 feet from one end and 1000 feet from the other. Commence description of claim at a center end monument, giving its distance and direction from center of Discovery Shaft; thence bound the claim in either direction. In description be careful to state locality of claim with reference to some natural object, or permanent monument, as will identify the claim.

STATE OF ARIZONA, }
County of Pinal } ss.

I, W. L. BROWN, Recorder in and for the County of Pinal, State aforesaid, do hereby certify that the annexed instrument was filed and recorded at request of W. L. BROWN on the day of MAR 2 1917 A. D., 1917, at minutes past 9 o'clock AM in Book No. of MINES Page 538

WITNESS my hand and official seal day of MAR 2 1917, 1917 of W. L. BROWN Recorder.

By W. L. BROWN Deputy.

APR 5-1917

AMENDED

Notice of Mining Location

LODE CLAIM

TO ALL WHOM IT MAY CONCERN:

This Mining Claim, the name of which is the Fraction 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 Arizona Hercules Copper Company, a Corporation organized and existing under and by virtue of the laws of the State of Arizona.

(Locator must insert either "a citizen of the United States," or "who has declared his intention to become a citizen of the United States.")

the undersigned, on the Seventeenth day of March, 1917.

The length of this claim is 1500 feet, and 280 claim feet, in a N-2°37" E direction and 1220 feet in a S-2°37" W direction from the mouth of the discovery tunnel 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 end center N-2°37" W 1500-ft to the North end center

The claim is situated and located in the Mineral Creek Mining District, in Pinal County in the State of Arizona, about one-half mile in a southeasterly direction from the Town of Ray, Arizona

The surface boundaries of the claim are marked upon the ground as follows: Beginning at a point, being the southwest corner of claim from which US MM No. 1, Mineral Creek Mining District aforesaid bears S-44°44" W, 2584.73-ft, thence S-87°23" E, 490-ft thence N-2°37" E 1500-ft, thence N-87°23" W 490-ft, S-2°37" W 1500-ft to place of beginning, all corners marked by substantial monuments of stone.

at a point in a direction feet from the discovery shaft (at which this notice is posted), being in the center of the end line of said claim; thence feet to a corner of said claim; thence feet to a corner of said claim; thence feet to a corner of said claim; thence feet to a corner of said claim; thence feet to a corner of said claim; thence feet to a corner of said claim; thence feet to the place of beginning.

All done under the provisions of the laws of the United States, and of the State of Arizona.

This is an Amended Location Notice of the Fraction Mining Claim, located by P.A. Schilling

on the 15th day of September, 1906, and recorded in Book 24 of Records of Mines, at page 479, in the office of the County Recorder of the aforesaid County of Pinal 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 17th day of March, 1917.

Arizona Hercules Copper Company

BY [Signature] General Manager.



STATE OF ARIZONA,

County of } ss.

I,, County Recorder in and for the County and State aforesaid, do hereby certify that the within instrument was filed for record at o'clock M., on this day of, 19....., and duly recorded in Book No. of Records of County, Arizona, at pages

WITNESS my hand and official seal the day and year first above written.

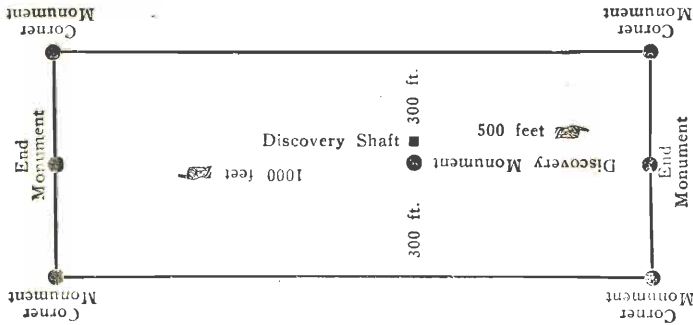
.....
County Recorder.

COMPARED
INDEXED

AMENDED

Notice of Location LODE CLAIM

Dated, 19.....
Filed and Recorded at request of, A. D. 19.....
at M.,
Book
Pages
County Recorder.
By Deputy Recorder.



This diagram is to give locator a general idea of plan of location under the new law. The Discovery Shaft can be in the center of claim or any distance from either end desired. In the diagram it is placed 500 feet from one end and 1000 feet from the other. Commence description of claim at a center end monument, giving its distance and direction from center of Discovery Shaft; thence bound the claim in either direction. In description be careful to state locality of claim with reference to some natural object, or permanent monument, as will identify the claim.

STATE OF ARIZONA, } ss.
County of Pinal

I, W. L. BROWN, Recorder in and for the County of Pinal, State aforesaid, do hereby certify that the annexed instrument was filed and recorded at request of Ch. Adlam on the 2 day of MAR 1917 A. D., 1917 at 9 minutes past 9 o'clock A. M., in Book No. 25 of MINES Page 537 WITNESS my hand and official seal day of MAR 2 1917 1917

W. L. BROWN
Recorder.
By W. L. Brown Deputy.

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

Department of the Interior,

OFFICE OF U. S. SURVEYOR-GENERAL,

Phoenix, Arizona,

October 19, 1918

I, U. S. Surveyor-General for Arizona,

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

known as the SATELLITE NO. 2, WEDGE NO. 2, PROSPECT and FRACTION Lodes,

situate in MINERAL CREEK

Mining District, PINAL County, ARIZONA,

in Section 11, 12, 13 & 14, Township No. 3 S, Range No. 13 E., unappvd., and

designated as Survey No. 3381, 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 improved each of said mining claims by claimant or its grantors, and that said improvements consist of 9 cuts and 8 tunnels, total value \$5840.

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

I further certify that the plat thereof, filed in the U. S. Land Office at Phoenix, Arizona is correct and in conformity with the foregoing Field Notes.

Frank P. Trott

United States Surveyor-General for Arizona.

SURVEYOR GENERAL'S CERTIFICATE OF APPROVAL OF FIELD NOTES AND SURVEY OF MINING CLAIM

DEPARTMENT OF THE INTERIOR OFFICE OF U. S. SURVEYOR GENERAL

Phoenix, Arizona,

October 19, 1918

I, U. S. Surveyor General for Arizona

do hereby certify that the foregoing and hereto attached Field Notes and Return of the Survey of the Mining Claim of

ARIZONA HERCULES COPPER COMPANY,

known as the

SATELLITE NO. 2, WEDGE NO. 2, PROSPECT and FRACTION Lodes,

situate in MINERAL CREEK mining district,

PINAL County, ARIZONA,

and 14

in Sections 11, 12, 13, Township No. 3 S, Range No. 13 E.,

unapproved, designated as Survey No. 3381

executed by Oliver C. Thompson, U. S. Mineral

Surveyor, April 20 - 29, 1917, under my instructions dated

April 4, 1917, have been critically examined and the necessary cor-

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

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

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

a part of the transcript of the field notes.

Handwritten signature of Frank P. Frost

U. S. Surveyor General for Arizona.