

FIELD NOTES

Of the Dependent Resurvey of the Section Boundaries,

And the Outboundaries of the Henry W. Grady, the Mormon Girl, the Mormon Mine No. 2, and the Mamie Maude Mines,

of Mineral Survey No. 2678,

And Metes-and-Bounds Survey of bodies of land classified

as mineral bearing, included within the Little Hope, Red

Cross, Copper Cross (Tract 37), Mormon Girl Extension, and

Mormon Girl Extension No. 2 Mining Claims, in

Sections 3 and 4,

Township 5 North, Range 4 East,

Of the Gila and Salt River Meridian,

In the State of Arizona

EXECUTED BY

Francis E. Joy, U. S. Cadastral Engineer,

In the capacity of U. S. Surveyor, under Special Instructions dated March 7, 1933, issued by the District Cadastral Engineer to govern surveys included in Group No. 176, which were approved by the Commissioner of the General Land Office, March 17, 1933, and Assignment Instructions dated February 28, 1933.

Survey commenced April 2, 1933.

Survey completed April 14, 1933.

4044

4044

INDEX DIAGRAM.

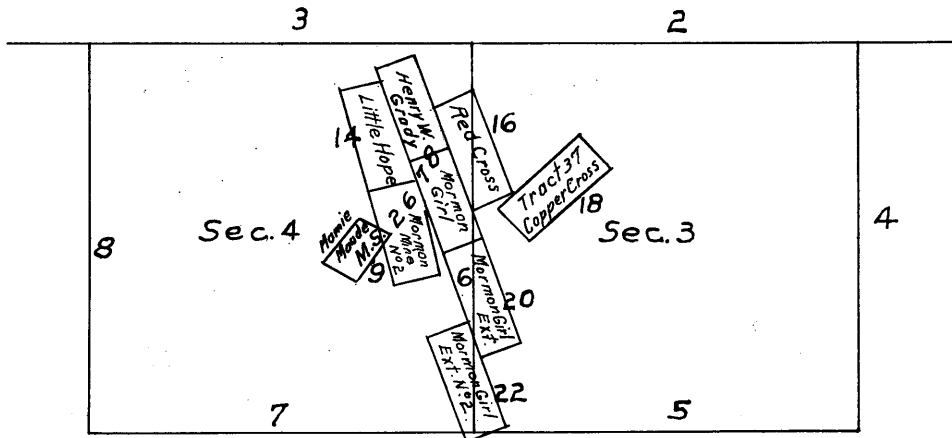
Township -----, *Range* -----

6	5	4	3	2	1
7	8	9	10	11	12
13	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

BOOK 4044

INDEX DIAGRAM

T. 5 N., R. 4 E.



Resurvey of a portion of the North Boundary of
T. 5 N., R. 4 E.

BOOK 4044

Chains.

The necessary resurveys and surveys, recorded herein, were executed with a light mountain transit made by Buff & Buff, Serial No. 16723, constructed in accordance with the standard specifications of the General Land Office. The horizontal circle has a diameter of $4\frac{1}{2}$ inches, with two double opposite verniers reading to single minutes; the vertical circle has a diameter of 4 inches, with one double vernier reading to single minutes. The instrument is equipped with the improved Smith solar attachment; radius of latitude arc $2\frac{1}{2}$ inches, and of declination arc $3\frac{1}{2}$ inches, each with verniers reading to single minutes. The instrument was in good condition, and having been placed in satisfactory adjustment prior to beginning the survey, and tested and found free from appreciable error, was approved by the district cadastral engineer on February 28, 1933. I examined all the instrumental adjustments before making the field tests herein-after recorded.

The directions of all lines were determined by the solar transit method. The measurements were made with a Lallie steel tape, 5 chains in length, graduated every link for the first 100 links, and the remainder at intervals of 10 links. The tape was tested by comparison with a Keuffel & Esser standard and found correct, the measurements were made on the slope, and the vertical angle of each interval was ascertained by a clinometer in good adjustment; the horizontal equivalents are entered in the field note record.

April 2, 1933, at the $\frac{1}{4}$ sec. cor. bet. secs. 3 and 10, T. 5 N., R. 4 E., latitude $33^{\circ} 48' N.$, longitude $111^{\circ} 56' W.$, at 6h 22m 30s p.m., l.m.t. or 6h 50m 30s p.m. by my watch, which reads correct 105 meridian time as determined by Western Union, I make an hour angle observation on Polaris west of the meridian for latitude and azimuth, three each with the telescope in direct and reversed positions, reading the vertical angle, and reading the horizontal deflection angle from a cactus on sky line about $\frac{3}{4}$ mile distant in the direction N-W to Polaris.

Mean horizontal angle cactus to star	$0^{\circ} 11'$
Azimuth of Polaris	$1^{\circ} 15' 15'' W.$ ✓
True bearing to cactus	N. $1^{\circ} 04' 15'' W.$ ✓
Mean observed vertical angle	$33^{\circ} 57' 29''$ ✓
Reduced latitude	$33^{\circ} 48' 12'' N.$ ✓

Instrument in continuous therefore test made as follows:

April 9, 1933, every hour from 8 a.m. to 11 a.m. and from 1 to 5 p.m., I make proper settings of the arcs of the solar attachment and ascertain that the resulting orientation of the instrument, when compared with the meridian established by Polaris observation, has a maximum error of less than $1' 30''$.

I repeat the tests of the arcs daily by noon observation, and verify the meridional indications at frequent intervals throughout the survey. ✓

Resurvey of a portion of the North Boundary of
T. 5 N., R. 4 E.

Chains.

Resurvey of a portion of the surveys executed by Sidney E. Blout, U. S. Cadastral Engineer, in 1919, and Roscoe C. Ham, U. S. Deputy Surveyor, in 1913.

From the cor. of secs. 2, 3, 34 and 35 on the N. bdy. of T. 5 N., R. 4 E.

West, on a random line bet. secs. 3 and 34.

39.97 Fall 5 lks. N. of the $\frac{1}{4}$ sec. cor. for sec. 3.

40.09 Fall 5 lks. N. of the $\frac{1}{4}$ sec. cor. for sec. 34, T. 6 N., R. 4 E.

79.82 Fall 7 lks. N. of the cor. of secs. 3, 4, 33 and 34.

Returning to the cor. of secs. 2, 3, 34 and 35, which is a granite stone, 12 x 7 x 10 ins. above ground, firmly set, marked 6N on NE. and 4E on SE. faces, 2 notches on E. and 4 notches on W. edges: witnessed by a mound of stone, 4 ft. base, 2 ft. high, W. of cor.

Thence

S. 89° 56' W., on a true line bet. secs. 3 and 34.

Over rolling desert land, through scattering timber and undergrowth.

10.30 Shallow wash, 20 lks. wide, course NE. Ascend 695 ft. over broken E. slope and large granite boulders.

39.97 The $\frac{1}{4}$ sec. cor. for sec. 3, which is an iron post, 1 in. diam., 16 ins. above ground, firmly set, marked and witnessed as described in the official record.

40.09 The $\frac{1}{4}$ sec. cor. for sec. 34, T. 6 N., R. 4 E., which is a granite stone, 10 x 8 x 10 ins. above ground, firmly set, marked $\frac{1}{4}$ on N. face and witnessed by a mound of stone, 3 ft. base, 2 ft. high, N. of cor.

Thence

S. 89° 58' W., on a true line bet. secs. 3 and 34.

Ascend 73 ft. over rocky NE. slope.

3.64 Spur, slopes S., ascend 29 ft. over SE. slope.

7.82 Descend 97 ft. over SW. slope.

17.79 Head of ravine, course S., ascend 233 ft. over SE. slope.

24.55 Black rock spur, slopes S., descend 256 ft. over SW. slope.

31.90 Ravine, course S., ascend 34 ft. over SE. slope.

35.70 Spur, slopes S., descend 112 ft. over SW. slope.

39.30 Spur slopes S., continue descent to

39.73 The cor. of secs. 3, 4, 33 and 34, which is a cross (X) with 3 grooves on E. and W. sides, marked on NW. face of a small ledge, bearing NE. and SW., witnessed by a mound of stone, 3 ft. base, 4 ft. high, W. of cor.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, palo verde; undergrowth, greasewood and cacti.

Resurvey of a portion of the North Boundary of
T. 5 N., R. 4 E.

4044

Chains.	
	<p>Thence, the $\frac{1}{4}$ sec. cor. for Sec. 33, T. 6 N., R. 4 E., being visible.</p> <p>S. 89° 56' W.. on a true line bet. secs. 4 and 33.</p> <p>Descend 750 ft. over broken SW. slope, through scattering timber and undergrowth.</p>
39.41	<p>The $\frac{1}{4}$ sec. cor. of sec. 33, T. 6 N., R. 4 E., which is a black granite rock, 12 x 6 x 12 ins. above ground, firmly set, marked $\frac{1}{4}$ on N. face, and witnessed by a mound of stone, 3 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.</p> <p>Thence</p> <p>West, on a random line bet. secs. 4 and 33.</p>
.88	<p>The $\frac{1}{4}$ sec. cor. of sec. 4.</p>
40.00	<p>Fall 2 lks. N. of the cor. of secs. 32 and 33, T. 6 N., R. 4 E.</p> <p>Returning to the $\frac{1}{4}$ sec. cor. for sec. 33, T. 6 N., R. 4 E.,</p> <p>Thence</p> <p>S. 89° 59' W., on a true line bet. secs. 4 and 33.</p> <p>Descend gradually 94 ft. over SW. slope.</p>
.88	<p>The $\frac{1}{4}$ sec. cor. of sec. 4, which is an iron post, 1 in. diam., 14 ins. above ground, firmly set, and marked as described in the official record. Witnessed by a mound of stone, W. of cor. I remove mound and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor.</p> <p>From this cor. U. S. L. M. 2545 bears N. 45° 06' W., 39.74 chs. dist.; a stone, 30 x 20 x 10 ins., firmly set in a mound of stone, 3 ft. base, 2 ft. high, marked U S L M on NW. and 2545 on NE. faces.</p>
13.55	<p>Phoenix - Cave Creek graded road, bears NE. and SW.</p>
20.20	<p>Rocky wash, 50 lks. wide, course SW. Thence over rolling land.</p>
38.45	<p>Gulch, 10 lks. wide, 6 ft. deep, course SW.</p>
40.00	<p>The cor. of secs. 32 and 33, T. 6 N., R. 4 E., which is a quartz rock, 10 x 8 x 2 ins. above ground, firmly set, marked with 4 notches on E. and 2 notches on W. edges; witnessed by a scattered mound of stone, N. of cor. Rebuild mound of stone, 3 ft. base, 2 ft. high, N. of cor.</p> <p>Land, rolling and mountainous. Soil, gravelly and stony; 2nd and 4th rates. Timber, palo verde, mesquite and ironwood; undergrowth, same with greasewood.</p> <hr/> <p>Thence</p> <p>S. 89° 54' W., on a true line along N. bdy. of sec. 4.</p> <p>Over rolling land, through scattering timber.</p>
.95	<p>The cor. of secs. 4 and 5, which is an iron post, 2 ins. diam., 14 ins. above ground, firmly set, marked and witnessed as described in the official record.</p>

Resurvey of a portion of the North Boundary of
T. 5 N., R. 4 E.

Chains.

Land, rolling.
Soil, gravelly; 3rd rate.
Timber, scattering palo verde.

Resurvey of a portion of the Subdivisions of
T. 5 N., R. 4 E.

Resurvey of a portion of the surveys executed by Sidney
E. Blout, U. S. Cadastral Engineer, in 1919.

From the point for cor. of secs. 2, 3, 10 and 11.

North, on a random line bet. secs. 2 and 3.

39.95 Fall 19 lks. E. of the $\frac{1}{4}$ sec. cor.

Thence from the $\frac{1}{4}$ sec. cor.

North, on random line bet. secs. 2 and 3, $N\frac{1}{2}$.

39.69 Fall 15 lks. E. of the cor. of secs. 2, 3, 34 and 35 on
the N. bdy. of the Tp., hereinbefore described.

Thence

S. $0^{\circ} 13'$ E., on a true line bet. secs. 2 and 3.

Over rolling land, through scattering timber and under-
growth.

17.60 Draw, 10 lks. wide, course SE.

39.69 The $\frac{1}{4}$ sec. cor., which is an iron post, 1 in. diam., 14
ins. above ground, firmly set, marked and witnessed as
described in the official record.

Thence

S. $0^{\circ} 16'$ E., on a true line bet. secs. 2 and 3, $S\frac{1}{2}$.

4.45 Wash, 50 lks. wide, 3 ft. deep, course SW.

11.35 Draw, 10 lks. wide, 5 ft. deep, course SW.

22.30 Shallow wash, 50 lks. wide, course SW. Ascend 265 ft. over
NW. slope and granite boulders of butte.

29.00 Top of butte, descend 223 ft. over SW. slope.

35.15 Foot of descent, bears NW. and SE., thence over rolling
land.

39.95 The point for cor. of secs. 2, 3, 10 and 11, which is a
hole in the ground with the original post lying along-
side. At the point for cor.

Set original iron post, 3 ft. long, 2 ins. diam., 36 ins.
in the ground, for cor. of secs. 2, 3, 10 and 11, with
brass cap mkd.

T5N	R4E
S3	S2
S10	S11

1919

from which

Resurvey of a portion of the Subdivisions of
T. 5 N., R. 4 E,

4044

Chains.	<p>Original bearing trees-</p> <p>A palo verde, 6 ins. diam., bears N. 12° W., 148 lks. dist., mkd. T5N R4E S3 BT.</p> <p>A palo verde stump, 5 ins. diam., bears S. 32° 30' W., 108 lks. dist., no marks found.</p> <p>Both trees agree with the original record.</p> <p>Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.</p> <p>This cor. is in forks of roads, bearing S., W. and N. 80° E.</p> <p>Land, rolling and mountainous. Soil, gravelly and stony; 3rd and 4th rates. Timber, palo verde and ironwood; undergrowth, same with greasewood.</p>
40.02	<p>From the point for cor. of secs. 3, 4, 9 and 10. East, on a random line bet. secs. 3 and 10. Fall 18 lks. S. of the $\frac{1}{4}$ sec. cor. Thence from the $\frac{1}{4}$ sec. cor. East, on a random line bet. secs. 3 and 10, $E\frac{1}{2}$.</p>
40.00	<p>Fall 12 lks. S. of the cor. of secs. 2, 3, 10 and 11. Thence S. 89° 50' W., on a true line bet. secs. 3 and 10. Over nearly level land along graded road.</p>
3.00	Road, curves to SW.
5.20	A granite boulder, 15 x 12 x 12 ft. on line.
7.00	A granite boulder, 10 x 12 x 8 ft. on line.
8.00	Reenter road, from SE.
14.44	C. F. Howard's house, bears N. 3.00 chs. dist.
32.90	Leave road, curves to NW.
35.00	Enter washed land and heavy timber.
35.70	Main channel of wash, 50 lks. wide, 1 ft. deep, course SW.
40.00	<p>The $\frac{1}{4}$ sec. cor., which is an iron post, 1 in. diam., 12 ins. above ground, firmly set, marked and witnessed as described in the official record.</p> <p>Thence</p> <p>S. 89° 45' W., on a true line bet. secs. 3 and 10, $W\frac{1}{2}$.</p> <p>Over level washed land, through timber.</p>
8.20	Wash, 20 lks. wide, 3 ft. deep, course SW.
10.60	Reenter road, from NE. Leave washed land and enter rolling land, bears N. 70° E. and S. 70° W.

Resurvey of a portion of the Subdivisions of
T: 5 N., R. 4 E.

Chains.
40.02

The point for cor. of secs. 3, 4, 9 and 10, in graded road, determined from 4 reference points placed by the road engineer.

Set an iron post, 3 ft. long, 2 ins. diam., 40 ins. in the ground, for cor. of secs. 3, 4, 9 and 10, with brass cap mkd.

T5N	R4E
S4	S3
S9	S10

1933

from which the
original bearing trees-

A mesquite, 5 ins. diam., bears N. 68° 00' E., 49 lks. dist., mkd. on stump BT

An ironwood, 12 ins. diam., bears S. 28° 45' E., 155 lks. dist., mkd. T5N R4E S10 BT

A palo verde, 7 ins. diam., bears S. 49° 45' W., 147 lks. dist., mkd. T5N R4E S9 BT

An ironwood stump, 16 ins. diam., bears N. 43° 30' W., 15 lks. dist., mkd. BT

At points N. 45° E., S. 45° E., S. 45° W. and N. 45° W., 71 lks. dist.

Set iron posts, 3 ft. long, 1 in. diam., 30 ins. in the ground, for witness cors. to cor. of secs. 3, 4, 9 and 10, with brass caps mkd.

W C	
T5N	R4E
S4	S3
S9	S10

1933

Land, rolling.

Soil, gravelly, 2nd and 3rd rates.

Timber, mesquite, ironwood and paloverde; undergrowth, same with greasewood.

Thence

North, on a random line bet. secs. 3 and 4.

40.01 Fall 2 lks. W. of the $\frac{1}{4}$ sec. cor.

Thence from the $\frac{1}{4}$ sec. cor.

North, on a random line bet. secs. 3 and 4, N $\frac{1}{2}$.

39.80 Fall 14 lks. E. of the cor. of secs. 3, 4, 33 and 34 on N. bdy. of Tp., hereinbefore described.

Thence

S. 0° 12' E., on a true line bet. secs. 3 and 4.

Over mountainous land, through scattering timber.

.60 Spur, slopes SW. Descend 234 ft. over SE. slope.

8.09 Ravine, course SE. Descend 22 ft. along E. side of ravine.

Resurvey of a portion of the Subdivisions of
T. 5 N., R. 4 E.

Chains. 10.74	SW. end of spur, descend 58 ft. over S. slope.
12.20	Ravine, course SW. Ascend 160 ft. over NW. slope.
18.60	Spur, slopes SW., descend 146 ft. over SE. slope.
24.00	Ravine, course W., ascend 96 ft. over NW. slope.
30.34	Spur, slopes S. 70° W., descend 190 ft. over SW. slope.
34.45	Intersect line 2 - 3 of the Mormon Girl patented mining claim, survey No. 2678, at a point from which cor. No. 2, bears N. 21° 42' W., 15.19 chs. and cor. No. 3, bears S. 21° 42' E., 5.30 chs. dist.; both cors. hereinafter described.
39.80	The $\frac{1}{4}$ sec. cor., which is an iron post, 1 in. diam., 14 ins. above ground, firmly set, marked and witnessed as described in the official record.
	Thence
	S. 0° 02' W., on a true line bet. secs. 3 and 4, $S\frac{1}{2}$.
.29	Intersect line 3 - 4 of the Mormon Girl patented mining claim, survey No. 2678, at a point from which cor. No. 3, bears N. 69° 28' E., 2.07 chs. and cor. No. 4, bears S. 69° 28' W., 6.73 chs. dist.; both cors. hereinafter described.
	Descend 219 ft. over SW. slope and along E. side of ravine.
4.78	Thence along W. side of ravine.
25.46	Ravine turns SW. Thence over rolling land.
40.01	The cor. of secs. 3, 4, 9 and 10.
	Land, rolling and mountainous. Soil, gravelly and stony; 3rd and 4th rates. Timber, palo verde and mesquite; undergrowth, sage brush.
	From the cor. of secs. 4, 5, 8 and 9.
	East, on a random line bet. secs. 4 and 9.
40.18	Intersect the point for $\frac{1}{4}$ sec. cor.
80.40	Fall 16 lks. S. of the cor. of secs. 3, 4, 9 and 10.
	Thence
	S. 89° 46' W., on a true line bet. secs. 4 and 9.
	Over rolling land and along a graded road.
25.20	Wash, 15 lks. wide, course NW.
26.50	Shallow sandy wash, 20 lks. wide, course NW.
40.22	The point for $\frac{1}{4}$ sec. cor. determined from an original bearing tree. No trace of corner post found.
	Set an iron post, 3 ft. long, 1 in. diam., 40 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

$\frac{1}{4}$ S4
S9

1933

Resurvey of a portion of the Subdivisions of
T. 5 N., R. 4 E.

Chains.	<p style="text-align: right;">from which an</p> <p>original bearing tree-</p> <p>A palo verde, 8 ins. diam., bears S. 17° 15' E., 215 lks. dist., mkd. $\frac{1}{4}$ S9 BT</p> <p>No trace of the other bearing tree found.</p> <p>At points N. 45° E. and S. 45° W., 71 lks. dist.</p> <p>Set iron posts, 3 ft. long, 1 in. diam., 30 ins. in the ground, for witness cors. to the $\frac{1}{4}$ sec. cor., with brass caps mkd.</p> <p style="text-align: center;">W C</p> <p style="text-align: center;">$\frac{1}{4}$ $\frac{S4}{S9}$</p> <p style="text-align: center;">1933</p> <p>Thence</p> <p>West, on a true line bet. secs. 4 and 9, $W\frac{1}{2}$.</p> <p>14.80 Shallow sandy wash, 100 lks. wide, course NW.</p> <p>20.30 Wash, 20 lks. wide, 2 ft. deep, course NW.</p> <p>40.18 The cor. of secs. 4, 5, 8 and 9, which is an iron post, 2 ins. diam., 4 ins. below the surface of the road, marked and witnessed as described in the official record.</p> <p>Land, rolling. Soil, sandy and gravelly; 2nd and 3rd rates. Timber, palo verde, ironwood and mesquite. Undergrowth, Sage brush, greasewood and cacti.</p> <hr/> <p>Thence</p> <p>North, on a random line bet. secs. 4 and 5.</p> <p>40.09 Fall 4 lks. E. of the $\frac{1}{4}$ sec. cor.</p> <p>Thence from the $\frac{1}{4}$ sec. cor.</p> <p>North, on a random line bet. secs. 4 and 5, $N\frac{1}{2}$.</p> <p>39.87 Fall 12 lks. E. of the cor. of secs. 4 and 5 on the N. bdy. of the Tp., hereinbefore described.</p> <p>Thence</p> <p>S. 0° 10' E., on a true line bet. secs. 4 and 5.</p> <p>Over heavy rolling land, through scattering timber.</p> <p>2.50 Gulch, 10 lks. wide, 6 ft. deep, course SW.</p> <p>14.30 Top of small knoll.</p> <p>23.25 Rocky wash, 80 lks. wide, 2 ft. deep, course W.</p> <p>26.00 Sandy wash, 60 lks. wide, 1 ft. deep, course W.</p> <p>31.30 Road, bears E. and W.</p> <p>39.87 The $\frac{1}{4}$ sec. cor., which is an iron post, 1 in. diam., 12 ins. above ground, firmly set, marked and witnessed as described in the official record.</p>
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Resurvey of a portion of the Subdivisions of
T. 5 N., R. 4 E. +

Chains.

Thence

S. 0° 03' E., on a true line bet. secs. 4 and 5, S $\frac{1}{2}$.

Over rolling land, through heavy timber.

4.30 Sandy wash, 10 lks. wide, course NW.

13.60 Phoenix-Cave Creek graded road, bears N. 20° E. and
S. 20° W.

18.90 Shallow sandy wash, 20 lks. wide, course NW.

33.05 Wash, 100 lks. wide, 1 ft. deep, course NW.

37.40 Wash, 5 lks. wide, 2 ft. deep, course NW.

40.09 The cor. of secs. 4, 5, 8 and 9.

Land, rolling.

Soil, gravelly and stony; 3rd rate.

Timber, palo verde, ironwood and mesquite; undergrowth,
same with greasewood and cacti.

Resurvey of the Outboundaries of Mineral Survey No. 2678.

Beginning at cor. No. 1 of the Henry W. Grady, which is a
black granite stone in place, 3 x 2 x 1 ft. above ground,
marked HWG 1 on S. side of a cross (X); witnessed by a
mound of stone, 3 ft. base, 2 ft. high, S. of cor.

Thence

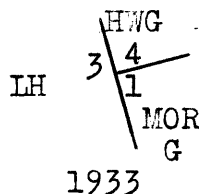
S. 19° 24' E., along line 1-4 of the Henry W. Grady.

Over rolling land on W. slope through scattering palo
verde and desert brush.

5.48 Ravine, course W.

19.33 Cor. No. 4 of the Henry W. Grady and cor. No. 1 of the
Mormon Girl, which is a weather cracked redwood post,
4 ins. sq., 24 ins. above ground, marked MG 2678 1 on
E. and 4 on N. faces and a small mound of stone around
post. North and alongside.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the
ground, for cor. No. 4 of the Henry W. Grady, Cor. No.
1 of the Mormon Girl and cor. No. 3 of the Little Hope
mining claim, with brass cap mkd.



Raise a mound
of stone, 3 ft. base, 2 ft. high, SW. of cor.

Thence

S. 21° 10' E., along line 1-4 of the Mormon Girl.

Over heavy rolling land, through scattering palo verde.

.30 Road to tunnel, 5 chs. E. of line, bears E. and W.

Resurvey of the Outboundaries of Mineral Survey No. 2678.

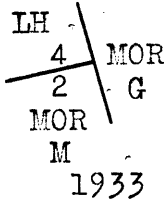
Chains.

1.99 Road to ore chute, 3 chs. E. of line, bears E. and W.

3.50 Ravine, course S. 80° W., ascend 24-ft. over NW. slope.

4.69 Cor. No. 2 of the Mormon Mine No. 2, which is a redwood post, 4 ins. sq., 30 ins. above ground, firmly set, and supported by a mound of stone, marked MM No 2 2 2678A on SW. face. North and alongside

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for cor. No. 2 of Mormon Mine No. 2 and cor. No. 4 of the Little Hope mining claim, with brass cap mkd.



raise a mound of stone, 3 ft. base, 2 ft. high, NW. of cor.

Thence

S. 77° 29' W., along line 2-1 of the Mormon Mine No. 2.

Descend 117 ft. over NW. slope through scattering palo verde.

4.18 A shaft, 4 x 5 ft., 5 ft. deep, bears S. 30 lks. dist.

8.61 Cor. No. 1 of the Mormon Mine No. 2, which is a redwood post, 4 ins. sq., 30 ins. above ground, firmly set in ground and mound of stone, marked MM No 2 1 2678A on E. face.

Thence

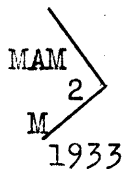
S. 18° 46' E., along line 1-5 of the Mormon Mine No. 2.

Ascend 151 ft. over NW. slope through scattering palo verde and undergrowth.

8.00 Intersect line 1-2 of the Mamie Maude Mine.

From this point cor. No. 2 of the Mamie Maude Mine, bears S. 61° 08' E., 2.66 chs. dist.; a badly decayed pine post, 6 ins. sq., 36 ins. above ground, firmly set in ground and mound of stone, 2 2678A on W. face. No further marks identified. North and alongside

Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to bedrock, with a granite rock, 7 x 6 x 2 ins., mkd. X, deposited at the base, and in a mound of stone to top, for cor. No. 2 of the Mamie Maude Mine, with brass cap mkd.



Thence, from above mentioned point of intersection,

N. 61° 08' W., along line 1-2 of the Mamie Maude Mine.

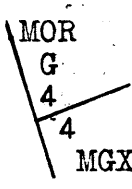
Descend 93 ft. over NW. slope through scattering timber and undergrowth.

Resurvey of the Outboundaries of Mineral Survey No. 2678.

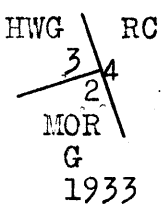
4044

Chains. 3.28	<p>Cor. No. 1 of the Mamie Maude Mine, which is a redwood post, 4 ins. sq., 24 ins. above ground, firmly set in ground and mound of stone, marked MM 1 2678A on S. face.</p> <p>Thence</p> <p>S. 40° 55' W., along line 1-4 of the Mamie Maude Mine.</p> <p>Descend 188 ft. over W. slope through palo verde and undergrowth.</p>
13.48	<p>Cor. No. 4 of the Mamie Maude Mine, which is a redwood post, 4 ins. sq., 30 ins. above ground, firmly set, supported by a mound of stone to top, and marked MM 4 2678A on E. face.</p> <p>Thence</p> <p>S. 61° 12' E., along line 4-3 of the Mamie Maude Mine.</p> <p>Ascend gradually 43 ft. over SW. slope through palo verde and desert undergrowth.</p>
4.41	<p>A redwood post, 4 ins. sq., 24 ins. above ground, firmly set in ground and mound of stone, marked MM SEC on N. face.</p>
7.03	<p>Lower end of spur, slopes SW.</p>
8.03	<p>Cor. No. 3 of the Mamie Maude Mine, which is a redwood post, 4 ins. sq., 30 ins. above ground, firmly set, supported by a mound of stone to top, and marked MM 3 2678A on N. face.</p> <p>Thence</p> <p>N. 32° 03' E., on line 2-3 of the Mamie Maude Mine.</p> <p>Ascend 268 ft. over SW. slope through palo verde and desert undergrowth.</p>
10.89	<p>Intersect line 1-5 of the Mormon Mine No. 2.</p> <p>From this point cor. No. 1 of the Mormon Mine No. 2, bears N. 18° 46' W., 11.43 chs. dist., and cor. No. 2 of the Mamie Maude Mine, bears N. 32° 03' E., 2.32 chs. dist.; both cors. hereinbefore described.</p> <p>Thence</p> <p>S. 18° 46' E., along line 1-5 of the Mormon Mine No. 2.</p> <p>Descend 184 ft. over S. slope.</p>
6.15	<p>Ravine, course SW., thence along SW. slope.</p>
8.77	<p>Cor. No. 5 of Mormon Mine No. 2, which is a granite rock in place, 30 x 12 x 12 ins. above ground, marked with a cross (X) 2678A MM No 2 5, and witnessed with a mound of stone, 3 ft. base, 2 ft. high, E. of cor.</p> <p>Thence</p> <p>N. 77° 29' E., along line 5-4 of the Mormon Mine No. 2.</p> <p>Ascend 149 ft. over steep rocky SW. slope, through scattering palo verde.</p>
4.45	<p>A redwood post, 4 ins. sq, 20 ins. above ground and stone mound, firmly set, and marked MM-No 2 SEC on N. face.</p>

Resurvey of the Outboundaries of Mineral Survey No. 2678.

Chains.	
9.00	Cor. No. 4 of Mormon Mine No. 2, which is a redwood post, 4 ins. sq., 36 ins. above ground, firmly set in mound of stone, and marked MM No 2 4 2678A on NW. face. This cor. is on top of a spur, sloping S. Thence N. 18° 46' W., on line 4-3 of the Mormon Mine No. 2. Ascend 158 ft. over steep rocky SE. slope of spur.
6.36	Top of spur, slopes S., continue ascent of 79 ft. along W. side of spur to
10.85	Descend 16 ft. over W. slope to
11.80	Cor. No. 3 of the Mormon Mine No. 2 on line 1-4 of the Mormon Girl, which is a redwood post, 4 ins. sq., 24 ins. above ground, firmly set, supported by a mound of stone, and marked MM No 2 3 2678A on W. face. Thence S. 21° 10' E., along line 1-4 of the Mormon Girl. Ascend 22 ft. over W. slope.
2.26	Descend SW. slope of spur 79 ft. to
5.45	Cross spur, slopes S. and descend 70 ft. over SE. slope.
7.41	Cor. No. 4 of the Mormon Girl, which is a redwood post, 4 ins. sq., 24 ins. above ground, firmly set, supported by a mound of stone, and marked MG 4 2678A on NE. face. North and alongside Set an iron post, 3 ft. long, 1 ins. diam., 20 ins. in the ground to bedrock, with a granite stone, 12 x 10 x 14 ins., mkd. X, deposited at the base, and in a mound of stone to top, for cor. No. 4 of the Mormon Girl and cor. 4 of the Mormon Girl Extension mining claim, with brass cap mkd.  - 1933
	Thence N. 69° 28' E., along line 4-3 of the Mormon Girl. Descend 82 ft. over SE. slope, through scattering palo verde.
4.37	A redwood post, 4 ins. sq., 24 ins. above ground, supported by a mound of stone, marked MG SEC on N. face.
6.00	Ravine, course S., ascend 41 ft. over SW. slope.
6.73	Intersect the line bet. secs. 3 and 4, T. 5 N., R. 4 E., at a point from which the $\frac{1}{4}$ sec. cor., hereinbefore described, bears N. 0° 02' E., 29 lks. dist.
8.80	Cor. No. 3 of the Mormon Girl, which is a redwood post, 4 ins. sq., 24 ins. above ground, firmly set, and supported by a mound of stone, marked MG 3 2678A on NW. face.

Resurvey of the Outboundaries of Mineral Survey No. 2678.

Chains.	
	<p>Thence</p> <p>N. 21° 42' W., along line 3-2 of the Mormon Girl.</p> <p>Ascend 124 ft. over SW. slope through scattering palo verde and desert undergrowth.</p>
5.30	Intersect the line bet. secs. 3 and 4, T. 5 N., R. 4 E., at a point from which, the $\frac{1}{4}$ sec. cor., hereinbefore described, bears S. 0° 12' E., 5.35 chs. dist.
9.50	Spur slopes SW. to a saddle about 2.50 chs. dist. Descend 52 ft. over NW. slope.
14.33	Ravine, course SW. Ascend 58 ft. over SW. slope.
19.24	Top of ascent thence along SW. slope to
20.49	<p>Cor. No. 2 of the Mormon Girl and cor. No. 3 of the Henry W. Grady, which is a redwood post, 4 ins. sq., 24 ins. above ground, firmly set, supported by a mound of stone, and marked HWG 2678A 3 on NW. and MG 2678A 2 on SW. faces; from which</p> <p>A bearing rock, 36 x 18 ins., 5 ft. high, bears S. 76° 50' E., 17 lks. dist., mkd. BR MG 2 X</p> <p>A bearing rock, 48 x 18 ins., 5 ft. high, bears S. 16° 10' E., 15 lks. dist., mkd. BR MG 2 X</p> <p>A mound of stone, 4 ft. base, 4 ft. high, S. of cor. North and alongside of old cor.</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to bedrock, supported by a mound of stone to top, for cor. No. 2 of the Mormon Girl, Cor. No. 3 of the Henry W. Grady and cor. No. 4 of the Red Cross mining claim, with brass cap mkd.</p> <div style="text-align: center;">  <p>HWG / RC 3 / 4 MOR G 1933</p> </div>
	<p>Thence</p> <p>N. 21° 25' W., along line 3-2 of the Henry W. Grady.</p> <p>Descend 87 ft. over steep NW. slope through scattering palo verde and desert undergrowth.</p>
4.50	Foot of descent, thence across bottom of draw, course W.
6.20	Leave bottom of draw and ascend 24 ft. over SW. slope.
9.13	Spur slopes SW., thence descend 29 ft. over broken SW. slope.
18.30	Small ravine, course SW.
19.33	Cor. No. 2 of the Henry W. Grady, which is a redwood post, 4 ins. sq., 30 ins. above ground, firmly set and supported by a mound of stone, marked HWG 2 2678A on SW. face.
	Thence

Resurvey of the Outboundaries of Mineral Survey No. 2678.

Chains.

S. 69° 39' W., along line 2-1 of the Henry W. Grady.

Descend 148 ft. over SW. slope through palo verde and desert undergrowth.

4.31 To redwood post, 4 ins. sq., 24 ins. above ground, firmly set, supported in a mound of stone, and marked HWG NE C on SW. face.

7.93 To cor. No. 1 of the Henry W. Grady and place of beginning.

Metes-and-bounds survey of bodies of land classified as mineral bearing, but not covered by mineral patent survey in secs. 3 and 4, T. 5 N., R. 4 E.

The Cave Creek Consolidated Copper Company, Claimants, were represented by their agent, A. S. Lewis, he identifying the position of the mining claims on the ground.

SURVEY OF THE LITTLE HOPE MINING CLAIM.

Beginning at cor. No. 1 of the Little Hope mining claim

Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to bedrock, with a granite stone, 8 x 6 x 3 ins., mkd. X, deposited at the base, and in a mound of stone to top for cor. No. 1 with brass cap mkd.



1933

from which

The $\frac{1}{4}$ sec. cor. on N. bdy. of sec. 4, T. 5 N., R. 4 E., hereinbefore described, bears N. 52° 47' W., 15.27 chs. dist.

A corner of the location, bears S. 77° 29' W., 10 lks. dist.; a post, 2 x 4 ins., 4 ft. long, set in mound of stone, and marked NW COR LH

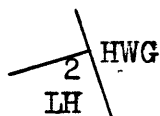
Thence

N. 77° 29' E., along the bdy. of the Little Hope mining claim.

Ascend 91 ft. over SW. slope through scattering palo verde and undergrowth.

9.17 Intersect line 1-4 of the Henry W. Grady, mineral survey No. 2678.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for cor. No. 2, with brass cap mkd.



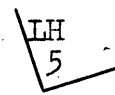
1933

raise a mound of stone, 3 ft. base, 2 ft. high, SW. of cor.

From this point cor. No. 1 of the Henry W. Grady, mineral survey No. 2678, hereinbefore described, bears N. 19°

SURVEY OF THE LITTLE HOPE MINING CLAIM.

4044

Claims.	
	24' W., 2.30 chs. dist.
	Thence
	S. 19° 24' E., along the bdy. of the Little Hope Mining claim and line 1-4 of the Henry W. Grady, Mineral Survey, No. 2678.
	Over rolling land on W. slope and through scattering palo verde and desert brush.
3.18	Ravine, course W.
17.03	Cor. No. 3 of the Little Hope mining claim, cor. No. 4 of the Henry W. Grady and cor. No. 1 of the Mormon Girl, hereinbefore described.
	Thence
	S. 21° 10' E., along bdy. of the Little Hope mining claim and line 1-4 of the Mormon Girl, Mineral Survey No. 2678.
	Over heavy rolling land, through scattering palo verde.
.30	Road to tunnel, 5 chs. E. of line, bears E. and W.
1.99	Road to ore chute, 3 chs. E. of line, bears E. and W.
3.50	Ravine, course S. 80° W., ascend 24 ft. over NW. slope.
4.69	Cor. No. 4 of the Little Hope mining claim and cor. No. 2 of the Mormon Mine No. 2, hereinbefore described.
	From this point a corner of the location, bears N. 79° 29' E., 65 lks. dist.; a post, 2 x 4 ins., 40 ins. above ground, surrounded by a small mound of stone, and marked SE COR LH
	Thence
	S. 77° 29' W., along bdy. of the Little Hope mining claim and line 2-1 of the Mormon Mine No. 2, Mineral Survey No. 2678.
	Descend 117 ft. over NW. slope through scattering palo verde.
4.18	A shaft, 4 x 5 ft., 5 ft. deep, bears S. 30 lks. dist.
8.61	Cor. No. 1 of the Mormon Mine No. 2, hereinbefore described, and leave line 2-1.
8.80	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for cor. No. 5, with brass cap mkd.
	<div style="text-align: center;">  </div>
	1933
	raise a mound
	of stone, 3 ft. base, 2 ft. high, NE. of cor.
	From this point a corner of the location, bears S. 20° 43' E., 1.31 chs. dist.; a post, 2 x 4 ins., 4 ft. long lying alongside a small mound of stone, marked SW COR LH
	Thence
	N. 20° 43' W., along bdy. of the Little Hope mining claim.

SURVEY OF THE LITTLE HOPE MINING CLAIM.

Chains.

Over rolling W. slope through scattering palo verde and undergrowth.

- 1.06 Ravine, course SW.
 9.06 Road to Mormon Girl mines, bears NE. and SW.
 13.26 Rocky draw, 20 lks. wide, 10 ft. deep, course W.
 21.06 Rocky draw, 10 lks. wide, 6 ft. deep, course W.
 21.76 Cor. No. 1 and place of beginning.

Area of the Little Hope mining claim 19.24 acres.

SURVEY OF THE RED CROSS MINING CLAIM.

Beginning at cor. No. 1 of the Red Cross mining claim.

Set an iron post, 3 ft. long, 1 in. diam., in crevice on W. face of small ledge, alongside and south of cross (X) on top of ledge, and in a mound of stone to top, for cor. No. 1, with brass cap mkd.

1
RC

1933

Thence

S. 21° 30' E., along bdy. of the Red Cross mining claim.

Over rough mountainous land, through scattering palo verde.

- .08 Intersect the line bet. secs. 3 and 4, T. 5 N., R. 4 E., at a point, from which, the cor. of secs. 3, 4, 33 and 34, hereinbefore described, bears N. 0° 12' W., 9.59 chs. dist.
 .99 Lower end of spur, slopes SW., descend 60 ft. to
 2.77 Ravine, course SW., ascend 224 ft. over NW. slope.
 8.88 Spur, slopes SW., descend 84 ft. over SE. slope.
 12.65 Head of a ravine, course SW., ascend 91 ft. over NW. slope.
 20.08 Spur, slopes SW., descend 32 ft. to
 21.90 Intersect line 1-2 Tract 37 of this survey.
 22.02 Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the ground to bedrock, with a granite rock, 10 x 5 x 4 ins., mkd. X, deposited at the base, and in a mound of stone to top, for cor. No. 2, with brass cap mkd.

RC

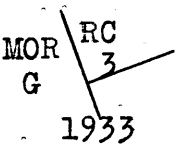
2

1933

Post set at center of small mound of stone pointed out as a corner of the location.

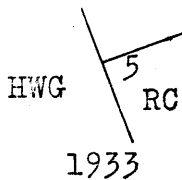
Thence

SURVEY OF THE RED CROSS MINING CLAIM.

Chains.	
	S. 68° 18' W., along bdy. of the Red Cross mining claim. Descend 300 ft over SW. slope through scattering palo verde and undergrowth.
.32	Intersect line 1-2 Tract 37 of this survey.
4.21	A post, 2 x 4 ins., 4 ft. long, mkd. SEC RC, lying loose on the ground, bears S. 21° 42' E., 10 lks. dist.
8.56	Intersect the line bet. secs. 3 and 4, T. 5 N., R. 4 E., at a point from which the $\frac{1}{4}$ sec. cor., hereinbefore described, bears S. 0° 12' E., 6.65 chs. dist.
9.04	Intersect line 2-3 of the Mormon Girl, Mineral Survey No. 2678. Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, with a slate stone, 10 x 8 x 2 ins., mkd. X., deposited at the base, and in a mound of stone to top, for cor. No. 3, with brass cap mkd.
	
	From this point cor. No. 3 of the Mormon Girl, hereinbefore described, bears S. 21° 42' E., 6.51 chs. dist.
	Thence
	N. 21° 42' W., along bdy. of the Red Cross mining claim and line 2-3 of the Mormon Girl, Mineral Survey No. 2678.
	Ascend SW. slope through scattering palo verde and desert undergrowth.
2.99	Spur slopes SW. to saddle about 2.50 chs. dist. Descend 52 ft. over NW. slope.
7.82	Ravine, course SW. Ascend 58 ft. over SW. slope.
12.73	Top of ascent thence along SW. slope.
13.98	Cor. No. 4 of the Red Cross mining claim, cor. No. 2 of the Mormon Girl and cor. No. 3 of the Henry W. Grady, hereinbefore described.
	Thence
	N. 21° 25' W., along the bdy. of the Red Cross mining claim and line 3-2 of the Henry W. Grady, Mineral Survey No. 2678.
	Descend 87 ft. over steep NW. slope through scattering palo verde and desert undergrowth.
4.50	Foot of descent, thence across bottom of draw, course W.
6.20	Leave bottom of draw and ascend over SW. slope.
8.04	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for cor. No. 5, with brass cap mkd.

SURVEY OF THE RED CROSS MINING CLAIMS

Chains.



raise a mound of stone, 3 ft. base, 2 ft. high, SE. of cor.

From this point cor. No. 2 of the Henry W. Grady, hereinbefore described, bears N. 21° 25' W., 11.29 chs. dist.

This cor. is identical with a corner of the location; a post, 2 x 4 ins., 4 ft. long, mkd. NW COR RC

Thence

N. 68° 18' E., along bdy. of the Red Cross mining claim.

Ascend 203 ft. over SW. slope, through scattering palo verde.

4.52½ Intersect a post, 2 x 4 ins., 4 ft. long, set in a mound of stone, marked NEC RC

The discovery monument, a mound of stone, 3 ft. base, 2 ft. high, alongside a shaft, 5 x 6 ft., 10 ft. deep, bears S. 21° 42' E., 60 lks. dist.

Thence along S. slope to

7.80 Ravine, course SW., ascend SW. slope to

9.07 Cor. No. 1 and place of beginning.

Area of the Red Cross mining claim 19.94 Acres.

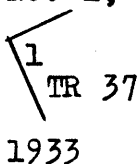
SURVEY OF TRACT 37.

Tract 37 embraces the Copper Cross mining claim. Mr. A. S. Lewis, agent for the Cave Creek Consolidated Copper Company, claimants, presented a copy of the location notice for the Copper Cross purported to have been recorded May 22, 1920 in Book No. 26 of Mining Claims, Pages 53 and 54, Maricopa County, Arizona.

The north end center corner of the location was the only corner found. However, Mr. Lewis identified the position on the ground of the mining claim, the survey of which follows.

Beginning at cor. No. 1 of Tract 37

Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground to bedrock, with a granite rock, 6 x 6 x 3 ins., mkd. X, deposited at the base, and in a mound of stone to top, for cor. No. 1, with brass cap mkd.



From this point the ¼ sec. cor. bet. secs. 3 and 4, T. 5 N., R. 4 E., hereinbefore described, bears S. 32° 48' W., 7.88 chs. dist.

Thence

N. 47° 39' E., along bdy. of Tract 37.

SURVEY OF TRACT 37.

Chains.

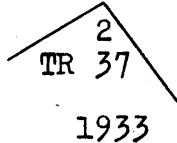
Ascend 200 ft. along spur, through scattering palo verde and undergrowth.

4.56 Intersect line 2-3 Red Cross mining claim of this survey.

4.90 Intersect line 1-2 Red Cross mining claim of this survey.

8.50 Top of ascent. Descend 131 ft. over broken SE. slope.

22.72 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to bedrock, with a granite rock, 8 x 6 x 3 ins., Mkd. X, deposited at the base, and in a mound of stone to top, for cor. No. 2, with brass cap mkd.



Thence

S. 42° 21' E., along bdy. of Tract 37.

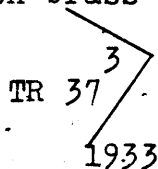
Descend 105 ft. over SE. slope, through scattering palo verde and undergrowth.

4.54½ Intersect north end center corner of the location, which is a mound of stone, 3 ft. base, 3 ft. high.

A shaft, 6 x 6 ft., 4 ft. deep, S. 47° 39' W., 30 lks. dist.

Descend 122 ft. over SE. slope.

9.09 Set an iron post, 3 ft. long, 1 in. diam., on bedrock, over cross (X), and in a mound of stone to top, for cor. No. 3, with brass cap mkd.



Corner falls on small granite and quartz ledge on W. side of wash, course SW.

Thence

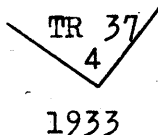
S. 47° 39' W., along bdy. of Tract 37.

Along broken SE. slope, through scattering palo verde and undergrowth.

11.70 Rocky draw, 20 lks. wide, 10 ft. deep, course E. Ascend 74 ft. over NE. slope.

17.37 Spur, slopes SE. Descend 75 ft. over SE. slope to

22.72 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, with a granite rock, 12 x 8 x 4 ins., mkd. X, deposited at the base, and in a mound of stone, to top for cor. No. 4, with brass cap mkd.



From this point the ¼ sec. cor. bet. secs. 3 and 10, T. 5 N., R. 4 E., hereinbefore described, bears S. 36°

SURVEY OF TRACT 37.

Chains.

39' E., 49.60 chs. dist.

Thence

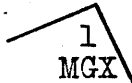
N. 42° 21' W., along bdy. of Tract 37.

Ascend 159 ft. over SE. slope, through scattering palo verde and undergrowth.

9.09 Cor. No. 1 and place of beginning.

Area of Tract 37 20.65 Acres.

SURVEY OF THE MORMON GIRL EXTENSION MINING CLAIM.

Beginning at cor. No. 1 of the Mormon Girl Extension
No location corner found.Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the
ground to bedrock, with a slate rock, 6 x 5 x 2 ins.,
mkd. X, deposited at the base, for cor. No. 1, with
brass cap mkd.


1933

Thence

S. 19° 55' E., along bdy. of the Mormon Girl Extension
mining claim.Descend 234 ft. over SW. slope through scattering palo
verde and undergrowth.

17.12 Rocky wash, 20 lks. wide, course SW.

22.72 Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the
ground, with a granite rock, 8 x 5 x 2 ins., mkd. X,
deposited at the base, for cor. No. 2, with brass cap
mkd.


1933

raise a mound
of stone, 3 ft. base, 2 ft. high, NW. of cor.From this point a corner of the location, bears S. 37°
50' E., 73 lks. dist.; a post, 2 x 4 ins., 40 ins. above
ground, surrounded with a small mound of stone, marked
SE COR MGX.

Thence

S. 69° 28' W., along bdy. of the Mormon Girl Extension
mining claim.Over rolling land, through scattering palo verde and
undergrowth.9.09 Intersect line 3-4 of the Mormon Girl Extension No. 2
mining claim of this survey.Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the
ground to bedrock, with a granite rock, 8 x 6 x 6 ins.,
mkd. X, deposited at the base, with a mound of stone
to top, for cor. No. 3, with brass cap mkd.

SURVEY OF THE MORMON GIRL EXTENSION MINING CLAIM.

Chains.

~~MGX~~
~~3~~
 MGX
 No 2
 1933

From this point a corner of the location, bears S. 19° 55' E., 1.00 ch. dist.; A post, 2 x 4 ins., 4 ft. long, set in a small mound of stone, marked SW COR MGX

Thence

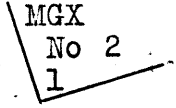
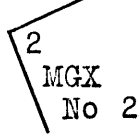
N. 19° 55' W., bet. Mormon Girl Extension and Mormon Girl Extension No. 2 mining claims.

Over rolling land, through palo verde, mesquite and undergrowth.

- .60 Enter wash, 50 lks. wide, 3 ft. deep, course SW.
- 2.70 Leave wash and ascend 273 ft. over SE. slope through scattering palo verde.
- 4.26 Intersect the line bet. secs. 3 and 4, T. 5 N., R. 4 E., at a point from which the cor. of secs. 3, 4, 9 and 10, hereinbefore described, bears S. 0° 02' W., 20.00 chs. dist.
- 7.52 Cor. No. 3 of the Mormon Girl Extension No. 2 of this survey.
- 16.23 A shaft, 6 x 6 ft., 4 ft. deep, bears N. 70° 05' E., 4.00 chs. dist.
- 22.72 Cor. No. 4 of the Mormon Girl Extension and cor. No. 4 of the Mormon Girl, Mineral Survey No. 2678, hereinbefore described.
- Thence
- N. 69° 28' E., bet. the Mormon Girl Extension mining claim and Mormon Girl of Mineral Survey No. 2678.
- Descend 82 ft. over SE. slope through scattering palo verde.
- 4.37 A redwood post, 4 ins. sq., 24 ins. above ground, supported by a mound of stone, marked MG SEC on N. face.
- 6.00 Ravine, course S., ascend 41 ft. over SW. slope.
- 6.73 Intersect the line bet. secs. 3 and 4, T. 5 N., R. 4 E., at a point from which the $\frac{1}{4}$ sec. cor., hereinbefore described, bears N. 0° 02' E., 29 lks, dist.
- 8.80 Cor. No. 3 of the Mormon Girl, Mineral Survey No. 2678, hereinbefore described.
- 9.09 Cor. No. 1 and place of beginning.

Area of Mormon Girl Extension 20.65 Acres.

SURVEY OF THE MORMON GIRL EXTENSION No. 2 MINING CLAIM.

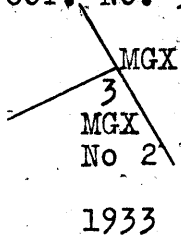
Chains.	<p>Beginning at cor. No. 1 of the Mormon Girl Extension No. 2 mining claim</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for cor. No. 1, with brass cap mkd.</p> <div style="text-align: center;">  </div> <p style="text-align: center;">1933</p> <p style="text-align: right;">raise a mound of stone, 3 ft. base, 2 ft. high, NE. of cor.</p> <p>Thence</p> <p>N. 19° 55' W., along bdy. of the Mormon Girl Extension No. 2 mining claim.</p> <p>Over rolling land, through scattering palo verde and undergrowth.</p> <p>.80 Wash, 20 lks. wide, 3 ft. deep, course SW.</p> <p>1.45 Intersect the line bet. secs. 4 and 9, T. 5 N., R. 4 E., at a point from which the cor. of secs. 3, 4, 9 and 10, hereinbefore described, bears N. 89° 46' E., 2.39 chs. dist.</p> <p>1.50 Road. bears E. and W.</p> <p>3.40 Sandy wash, 25 lks. wide, 3 ft. deep, course S.</p> <p>16.00 Draw, 10 lks. wide, 2 ft. deep, course SW. Ascend 117 ft. over SE. slope.</p> <p>22.72 Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the ground to bedrock, with a granite rock, 10 x 8 x 3 ins., mkd. X, deposited at the base, and in a mound of stone to top, for cor. No. 2, with brass cap mkd.</p> <div style="text-align: center;">  </div> <p style="text-align: center;">1933</p> <p>From this point a corner of the location, bears S. 70° 14' W., 22 lks. dist.; a post 2 x 4 ins., 4 ft. long, set in a small mound of stone, and marked NW COR MGX 2 and SW COR WASH</p> <p>Thence</p> <p>N. 70° 14' E., along bdy. of the Mormon Girl Extension No. 2 mining claim.</p> <p>Across top of spur, through scattering palo verde.</p> <p>.74 Spur slopes SW. Descend 91 ft. over SE. slope.</p> <p>4.54 A post, 2 x 4 ins., 4 ft. long, set in mound of stone, marked S C WASH on N. and N C MGX 2 on S. faces.</p> <p>A shaft, 6 x 4 ft., 8 ft. deep, bears S. 19° 46' E., 2.00 chs. dist.</p> <p>9.09 Intersect line 3-4 of the Mormon Girl Extension of this survey.</p>
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SURVEY OF THE MORMON GIRL EXTENSION No. 2 MINING CLAIM.

4044

Chains.

Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the ground to bedrock, with a granite stone, 8 x 6 x 3 ins., mkd. X, deposited at the base, and in a mound of stone to top, for cor. No. 3, with brass cap mkd.



Thence

S. 19° 55' E., bet. Mormon Girl Extension No. 2 and Mormon Girl Extension mining claims.

Over rolling land, through scattering palo verde and undergrowth.

- 3.26 Intersect the line bet. secs. 3 and 4, T. 5 N., R. 4 E., at a point from which the cor. of secs. 3, 4, 9 and 10, hereinbefore described, bears S. 0° 02' W., 20.00 chs. dist.
- 4.82 Enter wash, 50 lks. wide, 3 ft. deep, course SW.
- 6.92 Leave wash.
- 7.52 Cor. No. 3 of the Mormon Girl Extension mining claim of this survey.
- Thence continue along bdy. of Mormon Girl Extension No. 2.
- 15.92 Rocky draw, 10 lks. wide, course SW.
- 22.72 Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for cor. No. 4, with brass cap mkd.
-
- 1933
- raise a mound of stone, 3 ft. base, 2 ft. high, NW. of cor.
- From this point a corner of the location, bears S. 19° 55' E., 69 lks. dist.; a post, 2 x 4 ins., 4 ft. long, set in small mound of stone, and marked SE COR MGX 2
- Thence
- S. 70° 14' W., along bdy. of the Mormon Girl Extension No. 2 mining claim.
- Over rolling land through scattering palo verde and ironwood.
- 4.90 Road, bears E. and W.
- 5.01 Intersect the line bet. secs. 3 and 10, T. 5 N., R. 4 E., at a point from which the cor. of secs. 3, 4, 9 and 10, hereinbefore described, bears S. 89° 45' W., 1.94 chs. dist.
- 9.09 Cor. No. 1 and place of beginning.
- Area of the Mormon Girl Extension No. 2 20.65 Acres.

SEGREGATION SURVEYS, T. 5 N., R. 4 E.

FINAL TEST OF THE SOLAR ATTACHMENT.

April 14: On the meridian hereinbefore described, at 8h 00m a.m., app.t., I set off 33° 48' N. on the lat. arc; 9° 24' N., on the decl. arc; and orient the instrument with the solar; the line of sight agrees with the meridian established by Polaris observation.

At 4h 00m p.m., app.t., I set off 33° 48' N. on the lat. arc; 9° 32' N. on the decl. arc; and repeat the test of the solar; the line of sight agrees with the meridian established by Polaris observation.

April 14, 1933.

GENERAL DESCRIPTION.

The foregoing field notes describes a resurvey of the boundaries of sections 3 and 4, T. 5 N., R. 4 E., a resurvey of the outboundaries of Mineral Survey No. 2678, and the survey of certain bodies of land classified as mineral bearing.

The NE $\frac{1}{4}$ of sec. 4, NW $\frac{1}{4}$ and W $\frac{1}{2}$ NE $\frac{1}{4}$ of sec. 3 is very rough and mountainous. The remainder of the area of secs. 3 and 4 is rolling, becoming heavy rolling as the mountain is approached.

The soil on the lower levels is gravelly, 2nd and 3rd rates and on the mountains rocky 4th rate.

The ground cover consists of palo verde, ironwood, greasewood, cacti and the usual desert growth.

Considerable mineral development is found on the Mormon Girl patented mining claim.

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4-680
(August, 1926)

FIELD ASSISTANTS.

NAMES.	CAPACITY.
Herman Shafer	Chainman.
A. F. Gray	Chainman.
Wm Shafer	Flagman.
John McClung	Moundman.

26

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BOOK 4044

CERTIFICATE OF UNITED STATES SURVEYOR

Cadastral Engineer,

I, Francis E. Joy, U. S. ~~Surveyor~~, hereby certify upon honor that, in pursuance

of special instructions received from the District Cadastral Engineer for Arizona

bearing date of the 7th day of March, 1933, I have well, faithfully, and truly

in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instruc-

tions, and the laws of the United States, ~~resurveyed the section boundaries and the~~
~~outboundaries of the Henry W. Grady, the Mormon Girl, the Mormon Mine~~
~~No. 2, and the Mamie Maude Mines of mineral survey No. 2678, and sur-~~
~~veyed by metes-and-bounds, bodies of land classified as mineral bearing,~~
~~included within the Little Hope, Red Cross, Copper Cross (Tract 37), Mor-~~
~~mon Girl Extension, and Mormon Girl Extension No. 2 mining claims, in~~

~~sections 3 and 4, Township 5 North, Range 4 East, of the Gila and~~

~~Salt River~~ Meridian, in the State of Arizona, which are represented in

the foregoing field notes as having been executed by me, and under my direction; and that all the corners of

and resurvey

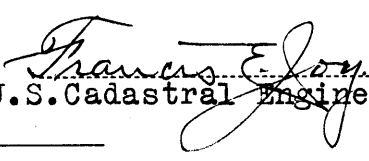
said survey, have been established and perpetuated in strict accordance with the Manual of Surveying Instruc-

tions, and the special written instructions of the District Cadastral Engineer for Arizona

and in the specific manner described in the field notes, and that the foregoing are the original field notes of

such survey and resurvey.

Glendale, California,
July 20, 1934.


U. S. Cadastral Engineer. ~~U. S. Surveyor~~

APPROVAL

OFFICE OF U. S. SUPERVISOR OF SURVEYS,


Denver, Colorado, Oct. 13, 1934.

The foregoing field notes of the ~~dependent resurvey of the section boundaries and~~
~~the outboundaries of the Henry W. Grady, the Mormon Girl, the Mormon Mine~~
~~No. 2, and the Mamie Maude Mines of mineral survey No. 2678, and metes-~~
~~and-bounds survey of bodies of land classified as mineral bearing,~~
~~included within the Little Hope, Red Cross, Copper Cross (Tract 37), Mor-~~
~~mon Girl Extension, and Mormon Girl Extension No. 2 mining claims, in~~
~~sections 3 and 4, Township 5 North, Range 4 East, of the Gila and Salt~~
~~River Meridian in the State of Arizona,~~

executed by Francis E. Joy, U. S. ~~Cadastral Engineer~~,

under his special instructions dated March 7, 1933, having been

critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys
and resurveys
they describe, are hereby approved.


U. S. Supervisor of Surveys.

~~I certify that the foregoing transcript of the field notes of the above described surveys in~~
~~has been correctly copied from the original notes on file in this office.~~

~~U. S. Supervisor of Surveys.~~