

4-679  
(April 1933)

BOOK 4238

# FIELD NOTES

OF THE RESURVEY OF

Part (E. of sec. 25) of East boundary

and

Part (S., W., & N. bdrs. of sec. 25) of Subdivision

of Township 17 South, Range 12 East

AND OF THE SURVEY OF

the CATHERINE No. 4 lode mining claim

in section 25 of

Township 17 South, Range 12 East

Of the *Gila and Salt River* Meridian,

In the State of *Arizona*

EXECUTED BY

Raymond F. Moss

Assistant Cadastral Engineer

Under special instructions dated *September 20*, 1940, which provided for the surveys included under Group No. 231, *Arizona*, bearing the approval of the Commissioner of the General Land Office under date of *December 2, 1940* and assignment instructions dated *November 4*, 1940.

Resurvey and Survey commenced *January 26*, 1941

Resurvey and Survey completed *May 5*, 1941

4238

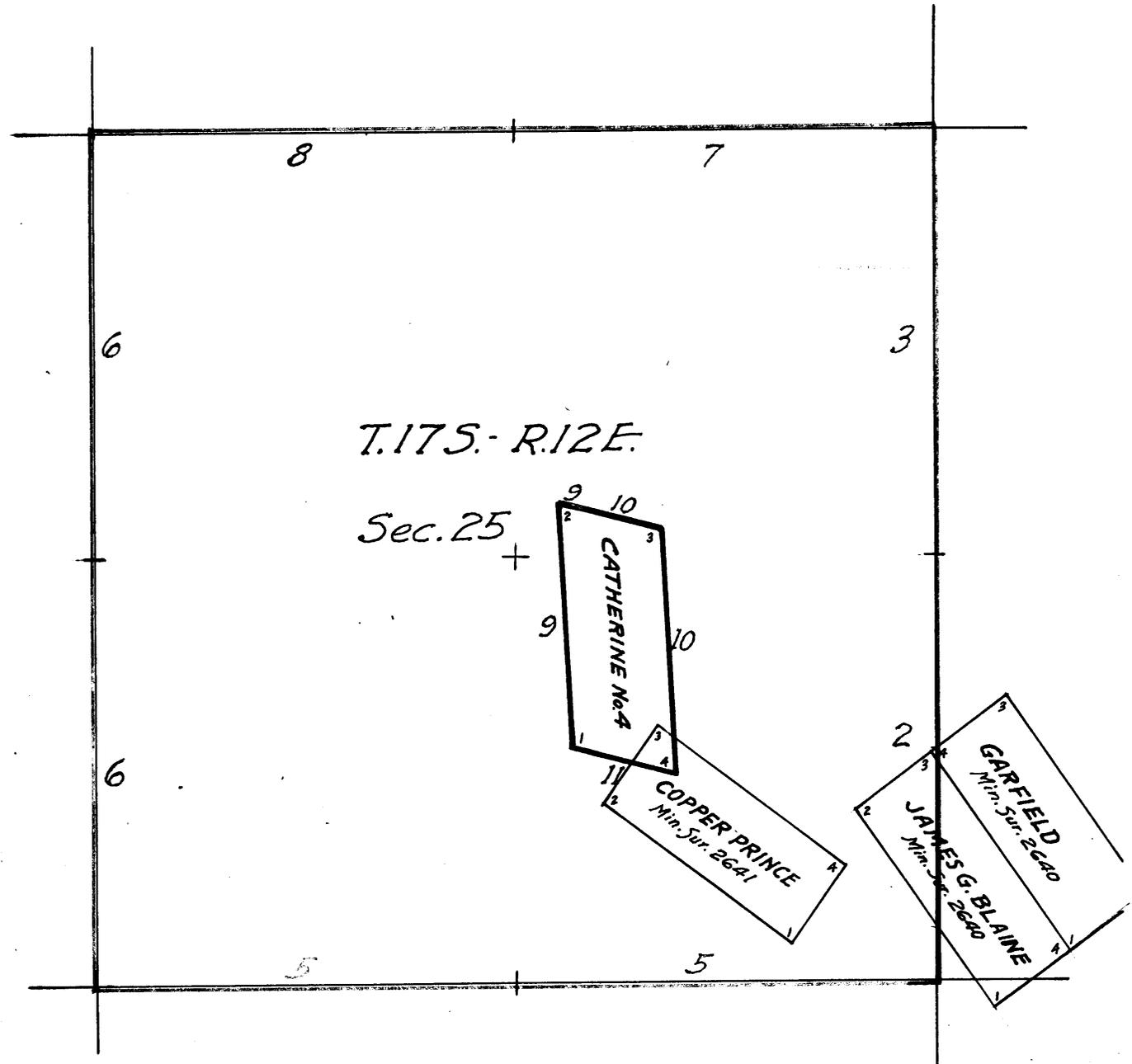
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# INDEX DIAGRAM.

Township \_\_\_\_\_, Range \_\_\_\_\_

6	5	4	3	2	1
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~INDEX-DIAGRAM~



- Lines of accepted surveys.
- Lines resurveyed under this group.
- Lines surveyed under this group.

The resurveys and survey herein described were executed by Raymond F. Moss, Assistant Cadastral Engineer, using Gurley transit No. 371537. This instrument is equipped with an improved Smith solar attachment and otherwise conforms to the standard specifications of the General Land Office. The instrument was examined and tested by the District Cadastral Engineer for California and Arizona prior to the beginning of the surveys of this group, and was approved conditional upon satisfactory results of field tests of same.

The azimuths of all of the lines of resurvey and survey herein described were determined with the solar attachment.

All measurements were made with a Dietzgen steel tape, 5 chs. in length, graduated every link for the first 100 lks., and the remainder at intervals of 10 lks. The tape was tested by comparison with a Lufkin standard tape and found correct. All measurements were made on the slope, the vertical angle of each interval determined with a clinometer in good adjustment, and the horizontal equivalents entered in the field notes.

#### PRELIMINARY FIELD TEST OF INSTRUMENT.

January 26, 1941; at a station  $3\frac{1}{2}$  chs. N. of the cor. of secs. 25, 30, 31 and 36, T. 17 S., Rs. 12 and 13 E., Gila & Salt River Meridian, Arizona, latitude  $31^{\circ}54'50''$  N., longitude  $111^{\circ}04'08''$  W., examine the adjustments of Gurley transit No. 371537 and find no errors. Watch reads correct 105th meridian time as checked with Western Union Telegraph Co. clock. To test the workings of the solar apparatus of this instrument, proceed as follows:

At 7h. 52m., a.m., l.m.t., make an hour angle observation on Polaris east of the meridian, making four observations, two each with the telescope in direct and reversed positions, and reading the deflection angles from a flag at the  $\frac{1}{4}$  sec. cor. of secs. 25 and 30, east to Polaris;

Mean watch time of observations, a.m.	8h. 16.3m.
Watch fast of l.m.t.	24.3m.
Mean horizontal angle from Polaris W. to reference point	1° 22'
Azimuth of Polaris	<u>49'</u>
True bearing of reference point	N. 0° 33' W.

At 9h. 00m., a.m., app.t., set off  $31^{\circ}55'$  N. on the latitude arc;  $18^{\circ}39\frac{1}{2}'$  S. on the declination arc; and determine a meridian with the solar, which agrees with the true meridian.

At app. noon, with the latitude arc unchanged; observe the sun on the meridian and obtain a reading of  $18^{\circ}39'$  S. on the declination arc, which agrees with the computed declination of the sun.

At 3h. 00m., p.m., app.t., with the latitude arc unchanged; set off  $18^{\circ}38'$  S. on the declination arc, and determine a meridian with the solar, which agrees with the true meridian.

As all of the solar observations made during the usual hours of solar work come within  $1'30''$  of the true meridian, conclude that this instrument is in satisfactory adjustment on this date, prior to beginning the resurveys and survey herein described.

Resurvey; Part (E. of sec. 25) of East bdy., T.17 S., R.12 E.

2

chains

The entire East bdy. of T.17 S., R.12 E. was surveyed in 1871 by S.W. Foreman, U.S.D.S., establishing cor. monuments thereon with common reference to areas on both sides of the line. The line was retraced bet. secs. 25 and 30, and bet. secs. 19 and 24, in 1909 by W.C. Goetz, U.S. Mineral Surveyor, in connection with Mineral Surveys Nos. 2640 and 2641. No other retracement or resurvey of any part of the line is of official record.

The following notes describe a resurvey of said Tp. bdy. between secs. 25 and 30.

The cor. of secs. 25, 30, 31 and 36 is a limestone, 14x12x18 ins. above ground, firmly set in a small mound of stone, marked with 5 notches on N. edge and 1 notch on S. edge. This cor. monument has been reconstructed by a private surveyor whose name could not be obtained.

Reconstruct this cor. monument as follows:

Remove the stone and mound, and in same place, set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground to bedrock, with a stone 5x4x3 ins. marked with a cross (X) deposited at base, old cor. stone reset alongside, and in a mound of stone to top, for cor. of secs. 25, 30, 31 and 36, with brass cap marked

T 17 S	
R12E	R13E
S25	S30
S36	S31
1941	

No bearing trees available.

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

This cor. is alongside and on W. side of a barbed wire fence bearing northerly and southerly.

Thence

N.  $0^{\circ}33'W.$ , on true line, bet. secs. 25 and 30 ( $S\frac{1}{2}$ )

Over mountainous land, thru scattering timber and medium undergrowth.

Ascend 49 ft. over SW. slope, along W. side of fence, bearing northerly and southerly.

3.50 Low, broken ridge, bears N.  $30^{\circ}W.$  and SE.; descend 96 ft. over NE. slope.

4.97 Intersect SW. side line (4-1) of James G. Blaine patented lode mining claim of Mineral Survey No. 2640.

From this point of intersection, Cor. No. 1 of said claim bears S.  $35^{\circ}38\frac{1}{2}'E.$ , 9.10 chs. dist., and Cor. No. 4 thereof bears N.  $35^{\circ}38\frac{1}{2}'W.$ , 13.63 chs. dist., both of which cors. are monumented with stones marked and witnessed as described in the official record.

Thence across patented mineral land (Min. Surv. No. 2640)

13.19 Drain, course E.; thence over rolling and broken land. Descend gradually over general E. slope.

21.67 Intersect NW. end line (3-4) of Garfield patented lode mining claim of Mineral Survey No. 2640.

From this point of intersection, Cor. No. 3 of said claim bears N.  $54^{\circ}09\frac{1}{2}'E.$ , 8.58 chs. dist., and Cor. No. 4 thereof bears S.  $54^{\circ}09\frac{1}{2}'W.$ , 6.51 chs. dist., both of which cors. are monumented with stones marked and witnessed as described in the official record.

Leave patented mineral land (Min. Surv. No. 2640)

Resurvey: Part (E. of sec. 25) of East bdy. of T. 17 S., R. 12 E.

3

chains	Ascend gradually over SE. and S. slopes
27.00	Low, broken ridge, bears E. and W.; turns to SE. at about 15 chs. E. of this point. Descend 26 ft. over N. slope.
28.83	Bottom of ravine, course E.; ascend 35 ft. over S. slope.
34.50	Low, flat topped spur, sloping E.; descend gradually over NE. slope to
39.93	Intersect locally accepted $\frac{1}{4}$ sec. cor. of secs. 25 and 30, which consists of two unmarked mesquite stakes firmly set in ground, and in a mound of stone 2 ft. base around and over same. No accessories. No trace of any other cor. monument being found in this vicinity, except this monument as marking the original cor. point.
	Reconstruct this cor. monument as follows:
	Remove the stakes and mound, and in same place, set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground, with old stakes reset alongside, for $\frac{1}{4}$ sec. cor. of secs. 25 and 30, with brass cap marked
	$\frac{1}{4}$ S25   S30 1941
	No bearing trees available.
	From this cor. a fence cor. bears E. 20 lks. dist., from which barbed wire fences extend northerly, southerly, and easterly.
	From $\frac{1}{4}$ sec. cor.,
	N. 1° 00' W., on true line, bet. secs. 25 and 30 (N $\frac{1}{2}$ )
	Over rolling land, thru scattering timber and medium undergrowth.
	Along W. side of barbed wire fence, bearing northerly and southerly. Descend gradually over NE. slope.
0.83	Road, bears N. 75° E. and S. 75° W.
7.60	Wash, 20 lks. wide, course E.; thence over gently rolling E. slope.
16.30	Wash, 100 lks. wide, course E.
20.03	Fence cor. bears E. 5 lks. dist., from which barbed wire fences extend northerly, southerly and westerly.
22.80	Wash, 50 lks. wide, course E.; ascend 25 ft. over S. slope.
29.70	Low, flat topped spur, slopes E.; descend 27 ft. over NE. slope to
39.98	Intersect the locally accepted cor. of secs. 19, 24, 25 and 30, which is an unmarked mesquite stake, 2 ins. in diam., projecting 18 ins. above ground, firmly set in ground and in a small mound of stone. No accessories.
	Reconstruct this cor. monument as follows:
	Remove the stake and mound, and in same place, set an iron post, 3 ft. long, 2 ins. in diam., 27 ins. in the ground, with old stake reset alongside, for cor. of secs. 19, 24, 25 and 30, with brass cap marked

Resurvey: Part (E. of sec. 25) of East bdy. of T.17 S., R.12 E.

4

chains

T 17 S	
R12E	R13 E
S24	S19
S25	S30
1941	

No bearing trees available.

Raise a mound of stone, 3 ft. base, 2 1/8 ft. high, W. of cor.

This cor. is alongside a fence cor. from which barbed wire fences extend northerly, southerly, and easterly.

Land, mountainous, rolling, and broken.

Soil, sandy and rocky, 2nd and 3rd rates.

Timber, mesquite and paloverde.

Undergrowth, scrub paloverde and mesquite, sagebrush, ocotillo and cacti.

Resurvey: Part (S., W. & N. bdrs. of sec. 25) of Subdivision lines  
of Township 17 South, Range 12 East

5

chains	<p>The subdivision lines of T.17 S., R.12 E. were surveyed in 1872 by T.F. White, U.S. Deputy Surveyor, and no retracement or resurvey of any part of same is of record.</p> <p>The following notes describe a resurvey of those subdivision lines of said township which form the south, west, and north boundaries of section 25 thereof.</p> <hr/> <p>From the cor. of secs. 25, 30, 31 and 36 on the East bdy. of the Tp. hereinbefore described,</p> <p>S. 89° 43' W., on true line, bet. secs. 25 and 36.</p> <p>Over rolling land, thru scattering timber and medium undergrowth.</p> <p>Descend 37 ft. over SW. slope to</p> <p>10.26 foot of slope, bears NW. and SE. Thence over gently rolling and nearly level land, ascending gradually over SE. and S. slopes to</p> <p>40.28 (Midpoint) Diligent search in this vicinity fails to reveal any trace of original <math>\frac{1}{4}</math> sec. cor.</p> <p>Reestablish the cor. monument at this point as follows:</p> <p>Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground, for <math>\frac{1}{4}</math> sec. cor. of secs. 25 and 36, with brass cap marked</p> <div style="text-align: center;"> <table> <tr><td></td><td>S 25</td></tr> <tr><td><math>\frac{1}{4}</math></td><td>—</td></tr> <tr><td></td><td>S 36</td></tr> <tr><td></td><td>1941</td></tr> </table> </div> <p>No bearing trees available.</p> <p>Raise a mound of stone, 3 ft. base, 2<math>\frac{1}{2}</math> ft. high, N. of cor.</p> <p>Thence over nearly level land, ascending gradually to</p> <p>64.56 Wash, 10 lks. wide, course NE.; continue gradual ascent over NE. slope to</p> <p>80.56 Intersect the cor. of secs. 25, 26, 35 and 36, which is an iron pipe, 12 ins. long, set 9 ins. in ground, with a lead cap marked</p> <div style="text-align: center;"> <table> <tr><td>T17S R12 E</td></tr> <tr><td>S26 S25</td></tr> <tr><td>S35 S36</td></tr> </table> </div> <p>No accessories.</p> <p>This cor. monument has been reconstructed by a private surveyor whose name could not be obtained.</p> <p>Reconstruct this cor. monument as follows:</p> <p>Remove the old pipe and in same place, set an iron post, 3 ft. long, 2 ins. in diam., 27 ins. in the ground, with old pipe reset alongside, for cor. of secs. 25, 26, 35 and 36, with brass cap marked</p> <div style="text-align: center;"> <table> <tr><td>T17S R12E</td></tr> <tr><td>S26   S25</td></tr> <tr><td>S35   S36</td></tr> <tr><td>1941</td></tr> </table> </div> <p style="text-align: right;">from which</p> <p>A mesquite, 6 ins. diam., bears N. 61<math>\frac{3}{4}</math>° W., 93 lks. dist., marked T17S R12E S26 BT</p> <p>No other bearing tree available.</p>		S 25	$\frac{1}{4}$	—		S 36		1941	T17S R12 E	S26 S25	S35 S36	T17S R12E	S26   S25	S35   S36	1941
	S 25															
$\frac{1}{4}$	—															
	S 36															
	1941															
T17S R12 E																
S26 S25																
S35 S36																
T17S R12E																
S26   S25																
S35   S36																
1941																

6 Resurvey: Part (S., W. & N. bdrs. of sec. 25). of Subdivision  
of Township 17 South, Range 12 East

chains	<p>Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.</p> <p>This cor. is alongside a fence cor. from which barbed wire fences extend northerly and westerly.</p> <p>Land, rolling, gently rolling and nearly level. Soil, sandy and rocky, 2nd and 3rd rates. Timber, mesquite and paloverde. Undergrowth, scrub paloverde and mesquite, sagebrush, greasewood, ocotillo and cacti.</p> <hr/> <p>From the cor. of secs. 25, 26, 35 and 36, N. 0° 51' W., on true line, bet. secs. 25 and 26.</p> <p>Over gently rolling and nearly level land, thru scattering timber and medium undergrowth. Descend gradually over NE. slope, along barbed wire fence.</p> <p>10.37 Wash, 10 lks. wide, course E.; ascend gradually over SE. slope.</p> <p>21.37 Top of low butte bears E. about 10 chs. dist.</p> <p>23.80 Low spur, slopes E.; descend 15 ft. over NE. slope.</p> <p>25.80 Wash, 20 lks. wide, course NE.; thence over E. slope.</p> <p>36.16 Wash, 40 lks. wide, course E.</p> <p>39.88 (Midpoint) Diligent search in this vicinity fails to reveal any trace of original ¼ sec. cor. Reestablish the cor. monument at this point as follows:</p> <p>Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground, for ¼ sec. cor. of secs. 25 and 26, with brass cap marked</p> <p style="text-align: center;">¼ S26   S25 1941</p> <p>No bearing trees available.</p> <p>Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.</p> <p>Continue over gently rolling land, along barbed wire fence.</p> <p>42.76 Drain, course SE.; ascend 30 ft. over S. slope.</p> <p>50.26 Spur, slopes E.; descend 40 ft. over N. slope.</p> <p>50.43 Road, bears E. and W.</p> <p>58.09 Fence cor., from which barbed wire fences extend northerly, southerly, and westerly.</p> <p>58.77 Drain, course N. 60° E.; ascend 39 ft. over S. slope.</p> <p>59.81 Fence cor., from which barbed wire fences extend northerly, southerly, and easterly.</p> <p>64.80 Low spur, slopes E.; descend 34 ft. over N. slope.</p> <p>69.40 Wash, 20 lks. wide, course N. 80° E.; ascend gradually over SE. slope to</p> <p>79.76 Intersect the cor. of secs. 23, 24, 25 and 26, which is a mesquite post, 3 ins. square, projecting 14 ins. above ground, firmly set, marked S23 on NW, S24 on NE, S25 on SE, and S26 on SW, faces, alongside of which is, with a brass cap marked</p>
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Resurvey: Part (S.,W. & N. bdrs.of sec.25) of Subdivision lines of Township 17 South, Range 12 East

chains an iron pipe, 12 ins.long, set 9 ins.in ground, with a lead cap marked

T17S R12E  
S23 S24  
S26 S25

No accessories.

This cor. monument has been reconstructed by a private surveyor whose name could not be obtained.

Reconstruct this cor. monument as follows:

Remove the mesquite post and iron pipe and in same place, set an iron post, 3 ft. long, 2 ins.in diam., 27 ins. in the ground, with wood post and iron pipe reset alongside, for cor. of secs.23,24,25 and 26, with brass cap marked

T17S R12E  
S23 | S24  
S26 | S25  
1941

No bearing trees available.

Raise a mound of stone, 2 ft.base, 1 1/2 ft.high, W.of cor.

This cor. is alongside a fence cor. from which barbed wire fences extend southerly and westerly.

Land, gently rolling and nearly level.  
Soil, sandy and rocky, 2nd and 3rd rates.  
Timber, mesquite and paloverde.  
Undergrowth, scrub paloverde and mesquite, sagebrush, greasewood, ocotillo and cacti.

From the cor.of secs.19,24,25 and 30 on the East bdy. of the Tp.,hereinbefore described,

S.89°35'W., on true line, bet. secs.24 and 25.

Over gently rolling and nearly level land, thru scattering timber and medium undergrowth.  
Ascend gradually over general NE. slope.

0.20 Graded road, bears N.80°E. and S.55°W.

5.60 Wash, 30 lks.wide, course N.70°E.; ascend gradually over general SE. and E. slopes .

40.33 (Midpoint) Diligent search in this vicinity fails to reveal any trace of original 1/4 sec. cor.  
Reestablish the cor.monument at this point as follows:

Set an iron post, 3 ft.long, 1 in.in diam., 27 ins. in the ground, for 1/4 sec. cor. of secs. 24 and 25, with brass cap marked

1/4 S 24  
S 25  
1941

from which

A mesquite, 8 ins. diam., bears N.35 1/2°W., 247 lks. dist., marked 1/4 S24 BT.

A mesquite, 8 ins. diam., bears S. 0 1/2°E., 74 lks. dist., marked 1/4 S25 BT.



## Survey: CATHERINE No.4 lode mining claim

chains

The following notes describe a metes-and-bounds survey of a tract of land in the  $W\frac{1}{2}E\frac{1}{2}$  of sec.25, T.17 S., R.12 E., which is classified as mineral bearing, but not covered by a mineral patent survey, which is known as the CATHERINE No.4 mining claim. This claim was located and recorded by Manuel Figueroa on July 2, 1923. The present claimant, Micheal Serrasio, was on the ground at the time of this survey and identified the corners of the location.

The purpose of the survey of this claim is to segregate it from the  $W\frac{1}{2}SE\frac{1}{4}$  of sec. 25, in order to provide legal designation and area for the Additional Stockraising Homestead Entry of James R. Hopkins, Phoenix 073833, which embraces said subdivision.

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Begin at a point ,N.2°00'W.,1.46 chs. dist. from the SW. cor: of the location, which is a mound of stone, 3 ft. base, 4 ft. high, set on the SE. edge of a wash, course NE:

At this point;

Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground, for Cor. No.1, with brass cap marked

AP 1

C 4

1941

No bearing trees available.

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

The  $\frac{1}{4}$  sec. cor. of secs. 25 and 36, hereinbefore described, bears S. 14° 04' W., 22.86 chs. dist.

From Cor. No.1,

N. 3° 23' W., on W. side line (1-2) of claim.

Over rolling land, thru scattering timber and medium undergrowth.  
Ascend 23 ft.

4.70 Spur, slopes E.; descend 16 ft.

8.83 Wash, 40 lks. wide, course N.60°E.; ascend 20 ft.

15.90 Low ridge, bears E. and W., and road same bearing.  
Descend 28 ft.

22.73 Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground, for Cor. No.2, with brass cap marked

C 4

AP 2

1941

No bearing trees available.

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

The NW. cor. of the location bears N.66°36'W., 41 lks. dist., which is a mound of stone, 3 ft. base, 4 ft. high.

From Cor. No.2,

S.75° 23'E., on N. end line (2-3) of claim.

Ascend slightly.

Survey: CATHERINE No.4 lode mining claim

chains  
4.78

Midpoint in N. end line of claim, from which;

N. end center monument of the location bears N.3°23'W., 7 lks. dist., which is a mound of stone, 3-ft.base, 4 ft. high.

Discovery monument of the location bears S.3°23'E., 7.58 chs. dist., which is a mound of stone, 4 ft.base, 4 ft. high.

NE. cor. of small adobe house bears S.11°02'W., 7.10 chs. dist.

Glory hole bears S.3° W., 7.20 chs. dist.

Mouth of vertical shaft bears S.1°15'W., 7.55 chs.dist.

Portal of inclined shaft bears S.1°30'E., 7.25 chs.dist.

Top of earth dyke, built across wash, bears S.11°45'E., 9.50 chs. dist.

8.38 Wash, 10 lks. wide, course N.60°E.

9.50 Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground, for Cor. No.3, with brass cap marked

C 4  
AP 3

1941

No bearing trees available.

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

NE. cor. of the location bears N.22°52'E., 17 lks.dist., which is a mound of stone, 3 ft.base, 4 ft.high.

The 1/4 sec.cor. of secs.25 and 30, hereinbefore described, bears S. 85° 00' E., 26.57 chs. dist.

From Cor. No.3,  
S.3° 23'E., on E. side line (3-4) of claim

Ascend 20 ft.

1.50 Road, bears E. and W.

4.00 Low ridge, bears E. and W.; descend 30 ft.

9.07 Wash, 30 lks. wide, course E.; ascend 20 ft.

12.50 Low spur, slopes E., near end; descend 20 ft.

15.15 Wash, 20 lks.wide, course E.; ascend 51 ft.

19.25 Intersect NE. side line (3-4) of Copper Prince patented lode mining claim of Mineral Survey No.2641 at a point 1.66 chs. S.55°09'30"E. from Cor.No.3 thereof, which is a stone firmly set, marked and witnessed as described in the official record.

Thence across patented mineral land.

22.73 Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground, for Cor. No.4, with brass cap marked

AP 4  
C 4

1941

## Survey: CATHERINE No.4 lode mining claim

chains	<p>No bearing trees available.</p> <p>Raise a mound of stone, 3 ft. base, 2 ft. high, NW. of cor. SE. cor. of the location bears S. 57° 10' E., 29 lks. dist., which is a mound of stone, 3½ ft. base, 4 ft. high.</p> <p>From Cor. No. 4,</p> <p>N. 75° 23' W., on S. end line (4-1) of claim.</p> <p>Across patented mineral land. Descend 15 ft.</p> <p>1.48 Drain, course N. 10° W.; descend 30 ft. to wash.</p> <p>4.06 Intersect NW. end line (2-3) of Copper Prince patented lode mining claim of Mineral Survey No. 2641 at a point 4.13 chs. S. 34° 47' 30" W. from Cor. No. 3 thereof which is a stone, firmly set, marked and witnessed as described in the official record.</p> <p>Leave patented mineral land.</p> <p>4.78 Midpoint in S. end line of claim, from which;</p> <p style="padding-left: 40px;">S. end center monument of the location bears S. 3° 23' E., 78 lks. dist., which is a mound of stone, 3 ft. base, 4 ft. high.</p> <p>9.34 Wash, 40 lks. wide, course N. 30° E.</p> <p>9.56 Intersect Cor. No. 1, the place of beginning.</p>
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FINAL FIELD TEST OF INSTRUMENT.

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May 5, 1941; at station 3½ chs. N. of cor. of secs. 25, 30, 31 and 30, T. 17 S., Rs. 12 and 13 E., Gila and Salt River Meridian, Arizona, latitude 31° 54' 50" N., longitude 111° 04' 08" W., examine the adjustments of Gurley transit No. 371537 and find no errors. Then, using the reference point determined at this station by Polaris observation January 26, 1941, as described on page 1 hereof, test the solar apparatus of this instrument as follows:

At 9h. 00m., a.m., app. t., set off 31° 55' N. on the latitude arc; 16° 16½' N. on the declination arc; and determine a meridian with the solar, which agrees with the true meridian.

At app. noon, with the latitude arc unchanged; observe the sun on the meridian, and obtain a reading of 16° 18½' N. on the declination arc, which agrees with the computed declination of the sun.

At 3h. 00m., p.m., app. t., with the latitude arc unchanged; set off 16° 21' N. on the declination arc, and determine a meridian with the solar, which agrees with the true meridian.

As all of the solar observations made during the usual hours of solar work come within 1' 30" of the true meridian, conclude that this instrument is in satisfactory adjustment on this date, and that it has remained in such condition throughout the resurveys and survey described in the foregoing field notes.

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NOTICE OF MINING LOCATION  
LODE CLAIM

107  
12

JOK 4238

TO ALL WHOM IT MAY CONCERN:

This Mining Claim, the name of which is the Catherine No. 4 Mining Claim, situate on lands belonging to the United States of America, and in which there are valuable mineral deposits, was entered upon and located for the purpose of exploration and purchase by Manuel Figueroa a citizen of the U.S. of America the undersigned, on the 2 day of July, 1923

The length of this claim is 1500 feet, and I claim 1000 feet, in a southerly direction and 500 feet in a northerly direction from the center of the discovery shaft, at which this notice is posted, lengthwise of the claim, together with 300 feet in width of the surface grounds, on each side of the center of said claim. The general course of the lode deposit and premises is from the southerly to the Northerly

The claim is situated and located in the Twin Butte Mining District, in Pima County, in the State of Arizona, about one and a half mile in a northerly direction from Twin Butte Station

The surface boundaries of the claim are marked upon the ground as follows: Beginning at monument of stone at a point in a Southerly direction 1000 feet from the discovery shaft (at which this notice is posted), being in the center of the South end line of said claim; thence 300 feet to a monument of stone, being the South East corner of said claim; thence 1500 feet to a monument of stone, being at the North East corner of said claim; thence 300 feet to a monument of stone at the center of the north end of said claim; thence 300 feet to a Monument of stones, being at the North W. corner of said claim; thence 1500 feet to a monument of stone at the South W. corner of said claim; thence 300 feet to the place of beginning.

This location of mining claim is done under and by virtue of the laws of the United States and the Laws of the State of Arizona, relating to mining locations.

Dated and posted on the ground this 2 day of July, 1923

Witness to location:  
Joaquin Martinez  
R. Yanez

Manuel Figueroa

Filed and recorded at request of Manuel Figueroa July 2, A.D. 1923 at 3-50 P.M.

R.B.Vinson, County Recorder  
By Rilla . Vinson Deputy

STATE OF ARIZONA, )  
                          ) ss.  
COUNTY OF PIMA.   )

I, Anna Sullinger, County Recorder in and for the County of Pima, State of Arizona, do hereby certify that the above and foregoing is a full, true and correct copy of Notice of Mining Location of the Catherine No. 4 Mining Claim, dated July 2, 1923, filed and recorded July 2, 1923, as appears of record in my office in Book H.H.H. at page 67 of Records of Mines.

(SEAL)

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, at my office in Tucson, this 31st day of January, A.D. 1938

Anna Sullinger  
County Recorder of Pima County, Arizona  
By Nancy Huntsman Deputy  
Jan 31 1 17 PM 1938



CERTIFICATE OF SURVEYOR

I, Raymond F. Moss, Assistant Cadastral Engineer, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 20th day of September, 1940, received from the district cadastral engineer for Arizona, with assignment instructions dated November 4, 1940, I have ~~resurveyed~~ part (E. of sec. 25) of East bdy., and part (S., W. and N. bdrs. of sec. 25) of subdivisioal lines of T. 17 S., R. 12 E.; and surveyed the CATHERINE No. 4 lode mining claim in section 25 of Township 17 South, Range 12 East of the Gila & 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 said ~~resurveys and~~ survey have been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Phoenix, Arizona  
July 22, 1941

*Raymond F. Moss*  
Assistant Cadastral Engineer

CERTIFICATE OF APPROVAL

OFFICE OF SUPERVISOR OF SURVEYS,  
Denver, Colorado, January 26, 1942.

The foregoing field notes of the ~~resurvey of~~ part (E. of sec. 25) of East bdy., and part (S., W. & N. bdrs. of sec. 25) of the subdivisioal lines of T. 17 S., R. 12 E.; and of the survey of the CATHERINE No. 4 lode mining claim in section 25 of Township 17 South, Range 12 East of the Gila and Salt River Meridian, in the State of Arizona. executed by Raymond F. Moss, Assistant Cadastral Engineer, under special instructions dated September 20, 1940, for Group 231, Ariz., and assignment instructions dated November 4, 1940, having been critically examined, and ~~resurveyed and~~ the necessary corrections made prior to their certification by the engineer, the said field notes, and the ~~survey~~ therein described, are hereby approved.

*Charles P. Johnson*  
Supervisor of Surveys.

~~CERTIFICATE OF TRANSCRIPT~~

~~I certify that the foregoing transcript of the field notes of the above described surveys in~~  
~~is a true copy of the original field notes on file in the public survey office.~~

~~Supervisor of Surveys.~~