

3189

July 1918

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Book "C"

4-679

Original

BOOK 3189

July 1918

FIELD NOTES

OF THE RETRACEMENT OF

Part of the old North Boundary of the Camp Lowell Abandoned Military Reservation,

and part of the subdivision lines

within TOWNSHIP 13 SOUTH, RANGE 15 EAST, and

RESURVEY OF

Part of the North bdy. of the Camp Lowell Abandoned Military Reservation,

Parts of the East and West boundaries, and

Part of the Subdivision lines of

TOWNSHIP 13 SOUTH, RANGE 15 EAST, and

SURVEY OF

Parts of the East and West and North Boundaries, and

Part of the Subdivision lines of

TOWNSHIP 13 SOUTH, RANGE 15 EAST,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona

EXECUTED BY

John F. Hesse, U. S. Surveyor

and

Arthur W. Brown, U. S. Cadastral Engineer

~~Executed under Assignment Instructions dated~~ under Special Instructions dated Oct. 1, 1915

issued by the United States Surveyor General to govern surveys included in Group

No. 57, which were approved by the Commissioner of the General Land

Office, November 30, 1915, and Assignment Instructions dated October 18, 1915
and July 11, 1918.

Retracement,

Resurvey and Retracement, Survey commenced December 13, 1915

Resurvey and Retracement, Survey completed July 27, 1918

~~Executed under Assignment Instructions dated~~

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(For Special Index Diagram see Page 1)

INDEX DIAGRAM.

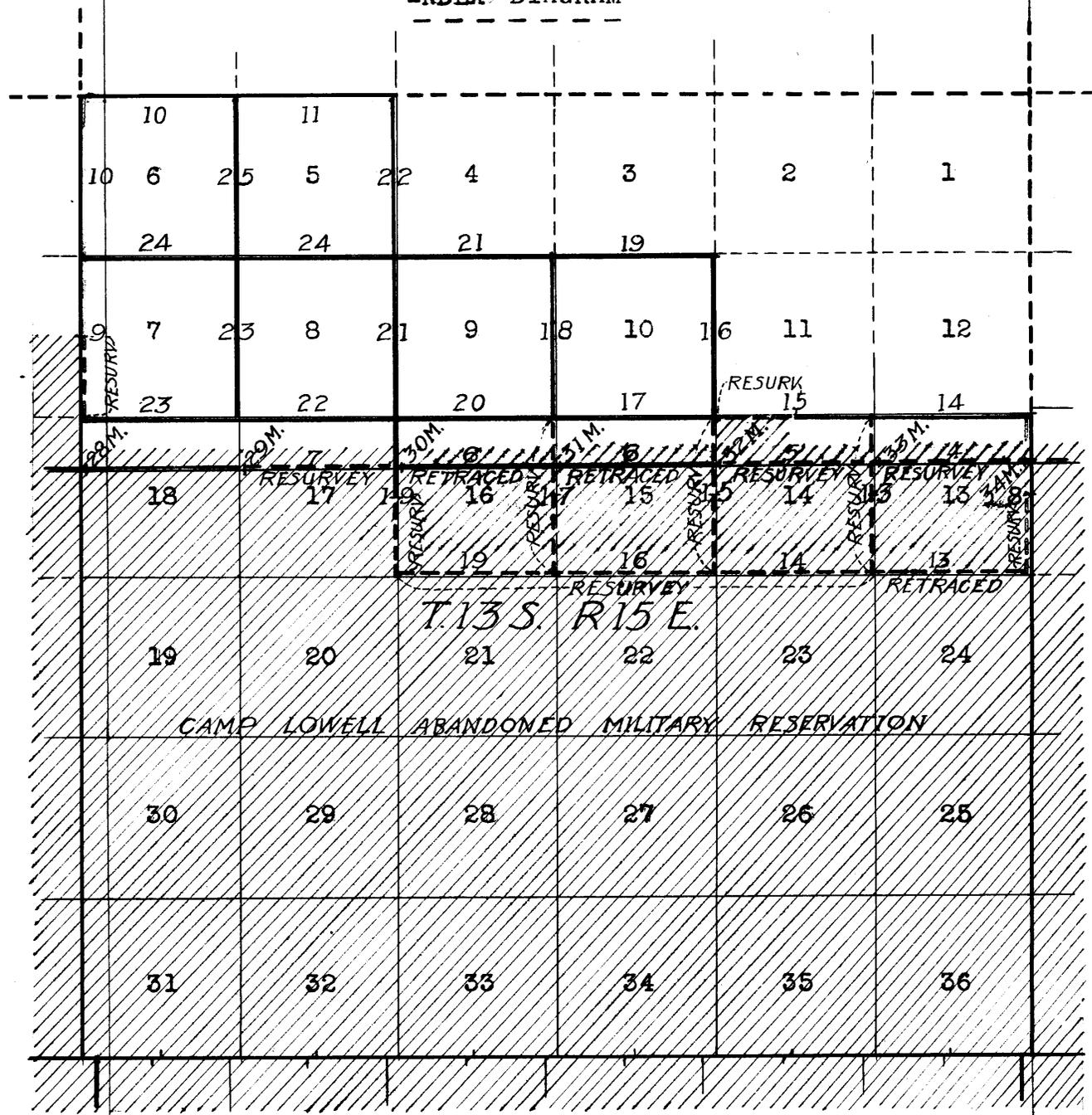
Township _____, Range _____

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
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Resurvey of part of the North boundary of the Camp Lowell Abandoned Military Reservation, within T. 13 S., R. 15 E.

Chains

Surveys, resurveys and retracements hereinafter described, executed by John F. Hesse, U. S. Surveyor and Arthur W. Brown, U. S. Cadastral Engineer, on dates shown on diagram on page 2 hereof, using an A. Lietz light mountain transit, No. 6166 and Young & Sons light mountain transit, No. 8486, respectively, each equipped with solar attachments. The horizontal limb of each is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The A. Lietz transit, No. 6166 was approved by the Assistant Supervisor of Surveys for Arizona and California, October 18, 1915, conditional upon satisfactory field tests.

FIELD TEST by John F. Hesse, U. S. S. of A Lietz light mountain transit, No. 6166.

I examine the transit and correct all errors in the adjustment; then to test the solar apparatus, by comparing its indications, resulting from solar observations made during a. m. and p. m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At my camp, which is located near the cor. of secs. 9, 10, 15 and 16, T. 13 S., R. 15 E., latitude 32°18'14" N., longitude 110°48'32" W.; I set off 32° 18' N. on the lat. arc; 21°33' S. on the decl. arc and at 4h 00m. p.m.. l.m.t., determine with the solar a meridian and mark a point thereof on a stone firmly set in the ground, 5 chs. N. of my station.

December 1, 1915.

At 2h.52m. a. m., by my watch which has correct l.m.t., I observe Polaris at western elongation in accordance with the Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

December 2, 1915.

At 7h. 45m. a.m., l.m.t., I lay off the azimuth of Polaris, 1° 21' to the east, and mark the meridian thus determined by cutting a small groove in the stone set Nov. 30, on which the meridian falls 0.3 ins. east of the mark determined by the solar.

At 8h. 00m. a.m., l.m.t., I set off 32°18' N. on the lat. arc; 21°48½' S. on the decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark falls 0.1 ins. east of the meridian established by the Polaris observation.

The solar apparatus by a.m. and p.m. observations defines position for meridians, respectively, about 0! 16" west and 0!5" east of the meridian established by the Polaris observation; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h.10m. a. m. is N. 13°45' W.; the angle thus determined gives the magnetic decl. 13°45' E.

During the execution of the surveys and resurveys in Ts. 13 S., Rs. 15 and 16 E., the adjustments of the solar attachment were repeatedly tested and verified on this meridian.

Record of Approval and Field Test of Young & Sons Light Mountain Transit No. 8486, by Arthur W. Brown.

Instrument was approved, subject to satisfactory field tests, by the Assistant Supervisor of Surveys for Arizona and California, on July 11, 1918.

Resurvey of part of the North boundary of the Camp Lowell Military Reservation, within T. 13 S., R. 15 E.

Chains

July 18, 1918.

At camp near center of sec. 20, T. 13 S., R. 16 E., in lat. 32°16' N., and long. 110°43' W., examine adjustments of transit and correct all errors.

At 4h 00m, p.m., l.m.t., set off 32°16' on lat arc, 21°31' N. on decl. arc, and determine a meridian with the solar, which I mark by driving a tack in a wooden stake firmly set in the ground 5 chs. N. of station.

At 11h 51m, p.m., l.m.t., observe Polaris at eastern elongation, in accordance with instructions in the Manual, and mark a point in the line thus determined by a tack in a stake E. of the one set by the solar.

July 19, 1918.

Turn off the azimuth of Polaris 1°20½' to the W., the meridian thus determined coinciding with that established by the P.M. solar.

At 9h 00m, a.m., l.m.t., set off 32°16' on lat arc, 20°26' N. on decl. arc; and determine a meridian with the solar; which agrees with the results previously secured.

From the results of these tests, it is concluded that the adjustments of the instrument are satisfactory.

The mean magnetic declination according to this transit, is 13°45' E., agreeing with the declination given by the Lietz instrument.

The old 34 M. cor. on the N. bdy. of the Camp Lowell Abandoned Military Reservation is a post badly rotted, with marks illegible, in a mound of stone. In the same place,

Set an iron post, 3 ft. long, 3 ins. in diam., 10 ins. in the ground, in a mound of stone for reestablished 34M. cor., marked on brass cap,

T 13 S R 15 E

S 13 ——— 34 M
CLAMR
1915

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Thence,

S. 89°55' W. on a true line on mile 33, in sec. 13.

Along S. slope, through dense brush.

20.50 Wash, 15 lks. wide, course SW.

31.40 Wash, 15 lks. wide, course SW.

40.77 Intersect the old 33½M. cor., a rotted post, marked illegibly, in a mound of stone. In the same place,

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished 33½ M. cor., marked on brass cap,

S 13 ——— 33½ M
CLAMR
1915

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Thence continuing measurement.

S. 89°57' W., on a true line in sec. 13.

57.50 Wash, 30 lks. wide, course SW., and over rolling land.

77.50 Wash, 50 lks. wide, course SW.

80.77 Intersect the old 33 M. cor., the position of which is determined from one of the old bearing trees.

Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished 33 M. cor., marked on brass cap,

Resurvey of part of North boundary of the Camp Lowell
Abandoned Military Reservation, within T. 13 S., R. 15 E. 5

Chains

T13S R15E
S13
33M
CLAMR
1915

from which
A mesquit, 10 ins. in diam., brs. S. $41\frac{1}{4}^\circ$ E., 77 lks. dist., marked USMRXXXLIIBT. This is the original bearing tree.
A mesquite, 10 ins. in diam., brs. S. $34\frac{1}{2}^\circ$ W., 70 lks. dist., marked 33MCLAMRBT.
Land, mountainous and rolling.
Soil, rocky, 4th. rate.
No timber.
Undergrowth, mesquite, catclaw and palo verde.

- 0.99 S. $89^\circ 52'$ W. on a true line, on mile 32, in sec. 13. Over rolling land, through dense brush. Intersect the old closing cor. of sec. 13 and 14, a small mound of stone and one bearing tree. In the same place, Set a granite stone 24 X 6 X 6 ins. in the ground for reestablished closing cor. of secs. 13 and 14, marked CC CLAMR on S. face, with 1 groove on E. face, from which A mesquite, 12 ins. in diam., brs. S. $6\frac{1}{4}^\circ$ W., 157 lks. dist., marked TXIIISRXXVEXIVCC. This is the original bearing tree, marked when the old cor. was established.
- 2.00 A mesquite, 14 ins. in diam., brs. S. $15\frac{1}{2}^\circ$ E., 107 lks., dist., marked CCT13R15ES13BT. Continue line and measurement in sec. 14. Spring, stream from which, 5 lks. wide, 2 ins. deep, runs S.
- 5.00 Spring, stream from which, 5 lks. wide, 2 ins. deep, runs S.
- 20.00 Wash, 30 lks. wide, course S.
- 40.16 Intersect the old $32\frac{1}{2}$ M. cor., a post almost rotted away, lying on a mound of stone. In same place, Set a sand stone, 18 X 8 X 6 ins. 12 ins. in the ground for reestablished $32\frac{1}{2}$ M. cor., marked $\frac{1}{2}$ MCLAMR on S. face, from which A mesquite, 6 ins. in diam., brs. S. $44\frac{1}{2}^\circ$ W., 62 lks. dist., marked $\frac{1}{2}$ M CLAMR BT. No other bearings available. Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Thence continue measurement, S. $89^\circ 56'$ W. on a true line in sec. 14.
- 41.45 Wash, 30 lks. wide, course S.
- 80.12 Intersect the old 32 M. cor., the position of which I reestablish from the stumps of the old bearing trees, and Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished 32 M. cor., marked on brass cap,

T 13 S R 15 E
S 14
32M
CLAMR
1915

from which,
A mesquite, 4 ins. in diam., brs. S. $47\frac{1}{2}^\circ$ W., 161 lks. dist., marked 32M CLAMR BT.
A mesquite, 5 ins. in diam., brs. S. 38° E., 88 lks. dist., marked 32M CLAMR BT.
Land, rolling.
Soil, rocky, 4th. rate.
No timber.
Undergrowth, mesquite, catclaw and palo verde.

Retracement of the eliminated portion of N. bdy. of Camp Lowell
Abandoned Military Reservation.

- Chains S. 89° 57' W. on a true line, on mile 31, in sec. 14.
Over rolling land, through dense brush.
- 1.02 Intersect the E. bdy. of sec. 15, 13.30 chs. N. 1° 22' W.
of the $\frac{1}{4}$ sec. cor. of secs. 14 and 15. At point of inter-
section,
Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in
the ground, for reestablished closing cor. of secs. 14
and 15, marked on brass cap
T13S R15E
S15CC --- S14
CLAMR
1915
- from which
A mesquite, 4 ins. in diam., brs. S. 11° E.,
155 lks. dist., marked CC T13S R15E S14 BT.
A palo verde, 6 ins. in diam., brs. S. 36 $\frac{1}{4}$ ° W.,
61 lks. dist., marked CC T13S R15E S15 BT.
- No trace of old closing cor. could be found.
The north bdy. of the Camp Lowell Military Reservation,
as originally surveyed in 1876 was run east through the
Tp., but by Executive Order, dated May 8, 1886, a certain
addition was made to the Reservation which eliminated
that portion of said boundary within secs. 15 and 16,
of T. 13 S., R. 15 E., and the amended N. bdy. by said
Executive Order, from the closing cor. of secs. 14 and
15, extends northerly on the section lines to the NE.
cor. of sec. 10, thence westerly on section lines to
the NW. cor. of sec. 9, thence southerly on section
lines to the closing cor. of secs. 16 and 17, the said
addition to the Reservation embracing all of secs. 9
and 10, and parts of secs. 15 and 16.
- From the reestablished closing cor. of secs. 14 and 15,
S. 89° 57' W. on a true line, thru. sec. 15, continuing
measurement of mile 31 on the old north boundary of the
Reservation, now eliminated as regards to its status
as Reservation bdy. thru. secs. 15 and 16.
- 40.00 Make careful search, but am unable to find any trace of
the old 31 $\frac{1}{2}$ M. cor.
- 80.30 Intersect the old 31 mile cor., the position of which is
determined from the stumps of the old bearing trees.
I destroy all trace of this corner.

- 1.10 S. 89° 57' W. on a true line, on mile 30 in sec. 15.
I make careful search for the old closing cor. of secs.
15 and 16, but without success.
- 40.00 Continue line and measurement in sec. 16.
Make careful search, but am unable to find any trace of
the old 30 $\frac{1}{2}$ M. cor.
- 80.26 Intersect the old 30 M. cor., the position of which is
determined from the stumps of the old bearing trees.

Resurvey of the N. bdy. of Camp Lowell Abandoned Military
Reservation, within T. 13 S., R. 15 E.

The old closing cor. of secs. 17 and 18, T. 13 S., R. 15
E. is a granite stone, 18 X 12 X 6 ins., set in a mound
of stone and marked CC on S. face; in same place
Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in
the ground for reestablished closing cor of secs. 17
and 18, marked on brass cap,

Resurvey of the N. bdy. of Camp Lowell Abandoned Military
Military Reservation, within T. 13 S., R. 15 E.

Chains

T13S R15E

S18 | S17
C | C
CLAMR
1915

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
S. of cor.

0.77

Thence east on a true line on 29th mile, in sec. 17.
Intersect the old 29 M. cor., a post badly rotted, marks
illegible, lying on the ground along side of mound of
stone, 2 1/2 ft. base, 1 1/2 ft. high; in same place
Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in
the ground, for reestablished 29 M. cor., marked on
brass cap

T13S R15E
S17
29 M
CLAMR
1915

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

12.75
21.50

Thence, (continuing measurement from closing cor.),
N. 89° 53' E. on a true line, on mile 30 in sec. 17.
Ascend through scattering brush.
Spur, slopes SE., 140 ft. above cor. Descend.
Wash, 25 lks. wide, course SE., 249 ft. below top of spur.

40.04

Thence over rolling land, thru. dense brush.
Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
the ground, for reestablished 29 1/2 M. cor., marked on
brass cap

S 17.

29 1/2 M
CLAMR
1915

from which

A mesquite, 8 ins. in diam., brs. S. 73° E., 30
lks. dist., marked 1/2 M CLAMR BT.

A mesquite, 10 ins. in diam., brs. S. 86 1/2° W., 39
lks. dist., marked 1/2 M CLAMR BT.

42.10
46.50
50.90
68.30
72.60
79.18

Wash, 100 lks. wide, course SW.
Road, brs. NE. and SW.
Wash, 10 lks. wide, course SW.
Wash, 10 lks. wide, course SW.
Wash, 15 lks. wide, course SW.
Intersect W. bdy. of sec. 16, 13.60 chs. N. 0° 2' W. of
1. sec. cor. of secs. 16 and 17. At point of intersec-
tion

Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in
the ground for reestablished closing cor. of secs. 16
and 17, marked on brass cap,

T13S R15E

S17 — CC — S16
CLAMR
1915

from which

A mesquite, 5 ins. in diam., brs. N. 36° W., 91 lks.
dist., marked CC T13S R15E S17 BT.

A mesquite, 4 ins. in diam., brs. S. 42 1/2° E., 197
lks. dist., marked CC T13S R15E S16 BT.

No trace of old closing cor. could be found.
Continue line and measurement in sec. 16, over the elimi-
nated portion of the Reservation bdy.

80.08

Intersect the old 30 M. cor., hereinbefore described. I
destroy all trace of this old cor.
Land, mountainous and rolling...
Soil, rocky, 4th. rate.
No timber.
U
ndergrowth, cat claw, mesquite, palo verde and cactus.

Resurvey and Survey of part of E. bdy. of T. 13 S., R. 15 E.

Chains

RESURVEY

The old cor. of secs. 13, 18, 19 and 24, on the E. bdy. of Tp. 13 S. R. 15 E., is a post 4 ins. sq., 30 ins. long, badly rotted, marked with 3 notches on N. and S. edges, in a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high. In same place,

Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 13, 18, 19 and 24, marked on brass cap,

T 13 S	
R15E	R16E
S13	S18
S24	S19
1915	

from which

A mesquite, 8 ins. in diam., brs. N. $61\frac{1}{4}^{\circ}$ W., 364 lks. dist., marked T13S R15E S13 BT.

A mesquite, 10 ins. in diam., brs. N. $34\frac{3}{4}^{\circ}$ E., 97 lks. dist., marked T13S R16E S18 BT.

A mesquite, 6 ins. in diam., brs. S. 83° E., 102 lks. dist., marked T13S R16E S19 BT.

A mesquite, 4 ins. in diam., brs. S. $13\frac{1}{2}^{\circ}$ W., 164 lks. dist., marked T13S R15E S24 BT.

Thence,

N. $1^{\circ} 00'$ W., on a true line bet. secs. 13 and 18.

Over level land, through dense brush.

5.10 Wash, 15 lks. wide. course SE.

19.10 Same wash, 15 lks. wide, course SW.

38.33 Intersect old $\frac{1}{4}$ sec. cor., a post, 3 ft. long, 3 ins. sq., marks illegible, in a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high; in the same place

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the the ground for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$ S13	S18
1915	

from which

A mesquite, 6 ins. in diam, brs. S. $69\frac{1}{4}^{\circ}$ E., 126 lks. dist., marked $\frac{1}{4}$ S18 BT.

A mesquite, 6 ins. in diam., brs. S. $68\frac{1}{2}^{\circ}$ W., 32 lks. dist., marked $\frac{1}{4}$ S 13 BT.

Original survey of this boundary was discontinued at this cor.

SURVEY

From reestablished $\frac{1}{4}$ sec. cor. of secs. 13, 18, North on a true line on the E. bdy. of sec. 13 (north half).

Continuing measurement from reestablished cor. of secs. 13, 18, 19 and 24.

40.90 Wash, 30 lks. wide, course SW.

46.00 Ascend rough south slope.

51.90 Intersect N. bdy. of Camp Lowell Abandoned Military Reservation, 30 lks. E. of the reestablished 34 M. cor., hereinbefore described. At point of intersection,

Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 13 and 18, marked on brass cap,

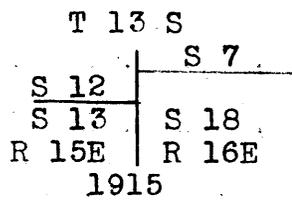
T 13 S	
R15E	R16E
S13 C	C S18
CLAMR	
1915	

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor.

Continue line and measurement.

78.83 At point 334 ft. above wash, set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 12 and 13, marked on brass cap,

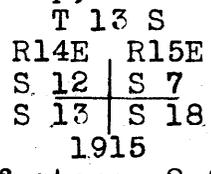
Chains



1915
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 Land, level and mountainous.
 Soil, rocky, 4th. rate.
 No timber.
 Undergrowth, mesquite, palo verde, catclaw and cactus.

Resurvey of part of W. bdy. of Township 13 S., R. 15 E.

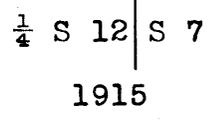
The old cor. of secs. 7, 12, 13 and 18, on the W. bdy.
 of T. 13 S., R. 15 E., is a post almost rotted away, in
 a mound of stone, 2 ft. base, 1 ft. high. In same place
 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in
 the ground, for reestablished cor. of secs. 7, 12, 13 and
 18, marked on brass cap,



1915
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 Thence
 North on a true line bet. secs. 7 and 12.
 Descending along W. slope, thru. dense brush.

11.50
 16.60
 22.90
 40.00

Wash, 15 lks. wide, course SW., 25 ft. below cor., and
 over rolling land.
 Wash, 20 lks. wide, course SE.
 Road, brs. NE. and SW.
 Set an iron post, 3 ft. long, 1 in. in diam, 26 ins. in
 the ground, for reestablished ¼ sec. cor., marked on
 brass cap,



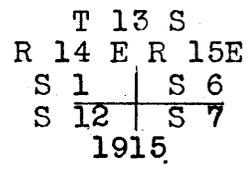
from which
 A palo verde, 5 ins. in diam., brs. N. 13½° W., 154
 lks. dist., marked ¼ S. 12 BT.
 A mesquite, 10 ins. in diam., brs. S. 81½° E., 250
 lks. dist., marked ¼ S 7 BT.
 No trace of old ¼ sec. cor. could be found. Original survey
 of this Twp. boundary was discontinued at this cor.

SURVEY

From the reestablished ¼ sec. cor. of secs. 7 and 12,
 North on a true line bet. secs. 7 and 12, continuing
 measurement from reestablished cor. of secs. 7, 12, 13
 and 18.

79.40
 80.00

Wash, 10 lks. wide, course SE.
 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins.
 in the ground, for cor. of secs. 1, 6, 7 and 12, marked
 on brass cap,



from which
 A palo verde, 4 ins. in diam., brs. N. 54¾° W., 21 lks.

Chains

dist., marked T13S R14E S1 BT.
 A mesquite, 5 ins. in diam., brs. N. 82° E., 111 lks.
 dist., marked T13S R15E S6 BT.
 A mesquite, 8 ins. in diam., brs. S. 35° E., 188 lks.
 dist., marked T13S R15E S7 BT.
 A palo verde, 6 ins. in diam., brs. S 71° W., 248 lks.
 dist., marked T13S R14E S12 BT.

Land, rolling.
 Soil, rocky, 4th. rate.
 No timber.
 Undergrowth, mesquite, catclaw and palo verde.

North on a true line bet. secs. 1 and 6.
 Over rolling land, thru. dense brush.

11.40 Wash, 15 lks. wide, course SE.
 23.90 Wash, 20 lks. wide, course SE.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 1 | S 6

1915

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor.

50.00 Ascend steep rocky S. slope.
 72.40 Spur, slopes E., 415 ft. above 50 ch. point.
 Thence along E. slope, ascending.
 79.60 A point 102 ft. above spur, near edge of cliffs bearing
 NW. and SE, facing NE. As the point for the Tp. cor.
 will fall on the face of these cliffs where it is im-
 practicable to chain measurement or set post; therefore
 at the 79.60 ch. point, or 40 lks. S. from the true cor.
 point,
 Set an iron post, 3 ft. long, 3 ins. in diam., on bedrock,
 supported by a mound of stone, for witness cor. to cor.
 of Tps. 12 and 13 S., Rs. 14 and 15 E., marked on brass
 cap,

	T 12 S	
	S 36 S 31	
R14E	W C	R15E
	S 1 S 6	
	T 13 S	

1917

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S.
 of cor.

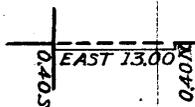
79.80 Top of cliff, 50 ft. high, bearing NW. and SE., facing NE.
 80.00 Point for cor. of Tps. 12 and 13 S., Rs. 14 and 15 E., in
 inaccessible position on face of cliff.

Land, mountainous.
 Soil, rocky, 4th. rate.
 No timber.
 Undergrowth, catclaw, mesquite and palo verde.

Part of N. bdy. of T. 13 South, Range 15 East.

The point for cor. of Tps. 12 and 13 S., Rs. 14 and 15 E.,
 being inaccessible, the survey of the N. bdy. of T. 13
 S., R. 15 E. cannot be started from said point; there-
 fore, begin at the witness cor., which is 40 lks. S. of
 cor. point, and run on offset line as follows:

East in sec. 6.
 Over mountainous land, descend.
 0.30 Top of cliff, 100 ft. high, brs. NW. and SE.,
 $\frac{1}{4}$ Cor facing NE.
 From foot of cliff, descend steep E. slope.
 13.00 Wash, 30 lks. wide, course S., clear running



Part of North bdy. of Township 13 S., Range 15 East. 11

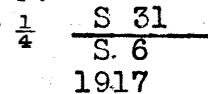
Chains

water, 20 lks. wide, 3 ins. deep, 390 ft. below witness cor.

13.00 At this point, offset North 0.40 chs. to point on Tp. boundary at Thence east on true line on Tp. boundary, continuing measurement.

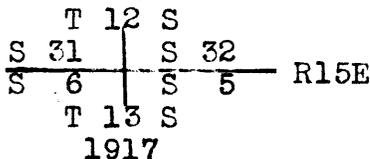
35.00 Ascend steep west slope. Top of spur, slopes S., 750 ft. above wash. Thence along rough broken general S. slope of the Santa Catalina Mts., thru. dense brush.

39.72 (Allowance for convergency) set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap,



and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

79.72 Continue over mountainous S. slope. Set an iron post, 3 ft. long, 3 ins. in diam., 10 ins. in the ground, supported by a mound of stone, for cor. of secs. 5, 6, 31 and 32, marked on brass cap,



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

Land, mountainous.

Soil, rocky, 4th. rate.

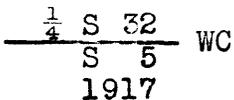
No timber.

Undergrowth, dense catclaw and palo verde.

14.00 East on a true line bet. secs. 5 and 32. Over rough broken S. slope of the Santa Catalina Mts., thru dense brush.

19.50 Rim of canyon, bears N. and S. Bottom of canyon, 200 ft. below rim, wash 20 lks. wide, course S., ascend.

26.50 Top of spur, slopes S., 328 ft. above wash in bottom of canyon. Set an iron post, 3 ft. long, 1 in. in diam., on bedrock, supported by a mound of stone for witness cor. to 1/4 sec. cor. of secs. 5 and 32 (the true point for same falls on face of cliffs on wall of canyon.) marked on brass cap,



and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

As the Tp. bdy. east of this witness cor. passes over cliffs and canyon making chaining on same impracticable, run on offset line, as follows:

S. 0° 2' E., 20.00 chs. on offset line, over mountainous land, descending.

Thence

East, 53.50 chs. on offset line to a point on sec. line, bet. secs. 4 and 5, at 20.00 chs. S. 0° 2' E. of true point for cor. of secs. 4, 5, 32 and 33, on N. bdy. of Township.

Thence

N. 0° 2' W., 13.00 chs. on sec. line bet. secs. 4 and 5 to edge of cliff, bearing NE. and SW., facing NW.

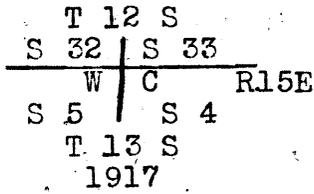
Set an iron post, 3 ft. long, 1 in. in diam., (No 3 in. iron post available) on bedrock, supported by a mound of stone, for witness cor. to cor. of secs. 4, 5, 32 and 33.

See diagram on page 12 hereof

Survey of part of N. boundary of T. 13 S., R. 15 East.

Chains.

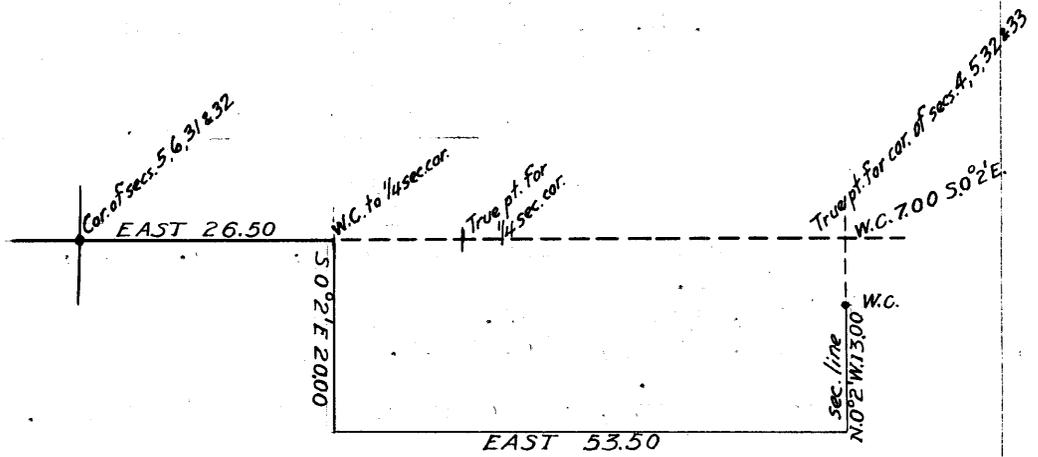
(true point for cor. falls on face of cliffs and is inaccessible) marked on brass cap,



and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

The position of this cor. in relation to the true cor. point is 7.00 chs. S. 0° 2' E. as determined by the offset line just described.

80.00 The true point for cor. of secs. 4, 5, 32 and 33 on face of cliffs bearing NE. and SW., facing NW., inaccessible.
 Land mountainous.
 Soil, rocky, 4th. rate.
 No timber.
 Undergrowth, dense catclaw and palo verde.



Retracement, Resurvey and Survey
of part of subdivision lines of T. 13 S., R. 15 E.

BOOK 3189

Chains

RETRACEMENT

From the reestablished cor. of secs. 13, 18, 19 and 24 on the E. bdy. of the twp., hereinbefore described, N. 88° 44' W. on a true line bet. secs. 13 and 24. Over level land, thru. medium undergrowth.

4.35 Wash, 10 lks. wide, 2 ft. deep, course S.

13.25 Wash. 8 lks. wide, course S. Thence across a series of small washes, draining S.

40.36 Intersect the original $\frac{1}{4}$ sec. cor., a wooden post, 4 ins. square, supported by a mound of stone above which post projects 36 ins. Post very faintly marked. Build a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Thence

S. 89° 04' W. on a true line on the W. $\frac{1}{2}$ mile bet. secs. 13 and 24. Over rolling land, thru. medium undergrowth.

9.35 Road, brs. NE. and SW.

11.90 Wash, 30 lks. wide, 4 ft. deep, course S.

19;65 Enter dense undergrowth.

28.50 Shallow sandy wash, 18 lks. wide, course S.

39.86 Intersect the original cor. of secs. 13, 14, 23 and 24, which is a wooden post, 4 ins. sq., supported by a mound of stone above which post projects 36 ins. Post faintly marked.

Land, level and rolling.
Soil, sandy and gravelly, 3rd. and 4th. rate.
No timber.
Undergrowth, mesquite, cactus and palo verde.

RESURVEY

N. 3° 13' W. on a true line bet. secs. 13 and 14. Over rolling land, thru dense undergrowth.

6.10 Wash, 23 lks. wide, course SW.

20.08 A point 3 lks. W. of a wood post supported by a mound of stone. Post is not marked but is probably a corner set by some settler or private surveyor as a 1/16 sec. cor.

33.10 Rocky wash, 30 lks. wide, course SSW.

40.09 Intersect the remains of the original $\frac{1}{4}$ sec. cor. consisting of a mound of earth and stone and bits of rotten wood scattered around. Reestablish the $\frac{1}{4}$ sec. cor. in the center of the mound, as follows:
Set a granite stone, 14 X 8 X 6 ins., 10 ins. in the mound, marked $\frac{1}{2}$ on W. face. and raise a mound of stone, 2ft. base, $1\frac{1}{2}$ ft. high W. of cor. Thence

N. 1° 35' W. on a true line on N. $\frac{1}{2}$ bet. secs. 13 and 14. Over rough broken land, thru. dense undergrowth, ascend.

11.40 Wash, 23 lks. wide, 6 ft. deep, course SW.

11.53 Intersect the closing cor. of secs. 13 and 14 on the N. bdy. of the Camp Lowell Abandoned Military Reservation, hereinbefore described. Continue line and measurement.

25.03 Wash, 40 lks. wide, course SW. 100 ft. above $\frac{1}{4}$ cor. Continue ascent.

38.24 A point 177 ft. above wash, intersect the original cor. of secs. 11, 12, 13 and 14, which is a wood post almost rotted away in a mound of stone, 3 ft. base, 1 ft. high. Set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in the ground and 12 ins. in a mound of stone for cor. of secs. 11, 12, 13 and 14, mkd. on brass cap,

T13S	R15E
S11	S12
S14	S13
1915	

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Retracement, Resurvey and Survey
of part of the subdivision lines of T. 13 S., R. 15 E.

Chains Land, rolling, broken and mountainous.
Soil, rocky, 4th. rate.
No timber.
Undergrowth, dense cat claw, mesquite, palo verde and
Cactus.

SURVEY

East on a random line bet. secs. 12 and 13. 2128
40.00 Set temp. $\frac{1}{4}$ sec. cor.
82.74 Intersect the E. bdy. of Tp. 21 lks. N. of the cor. of secs.
12 and 13, hereinbefore described.
Thence
N. $89^{\circ} 51'$ W. on a true line bet. secs. 12 and 13.
Along rough S. slope of mountains, thru. dense brush.,
3.80 Spur, slopes SW., desc.
11.90 Wash, 15 lks. wide, course SW., 181 ft. below cor. Asc.
15.70 Spur, slopes SW., 111 ft. above wash, Descend.
16.90 Wash, 10 lks. wide, course SW. 65 ft. below spur. Asc.
17.85 Spur, slopes SW., 145 ft. above wash, Descend.
37.60 Wash, 15 lks. wide, course SW. 208 ft. below spur, Ascend.
42.74 Set an iron post, $\frac{3}{4}$ ft. long, 1 in. in diam., 26 ins. in the
the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

S 12

$\frac{1}{4}$

S 13

1915

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.
of cor.

This cor. is on spur, sloping SW, 111 ft. above wash; Desc.
54.96 Wash, 15 lks. wide, course SW., 118 ft. below spur, Asc.
69.80 Spur, slopes SW., 148 ft. above wash, desc.
78.10 Wash, 15 lks. wide, course SW., 94 ft. below spur, asc.
82.74 The cor. of secs. 11, 12, 13 and 14. on spur sloping S.
93 ft. above wash.

Land, mountainous.
Soil, rocky, 4th. rate.
No timber.
Undergrowth, palo verde, mesquite, cat claw and cactus.

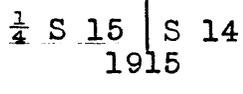
RESURVEY

From the original cor. of secs. 13, 14, 23 and 24, here-
inbefore described,
N. $89^{\circ} 58'$ W. on a true line bet. secs. 14 and 23.
Over rolling land, thru. dense undergrowth.
6.00 Wash, 15 lks. wide, course SW.
11.60 Road, brs. N. and S.
17.75 Wash, 18 lks. wide, 4 ft. deep, course SW.
30.50 Road, brs. NE and SW.
38.50 Wash, 38 lks. wide, course S.
40.06 Intersect the original $\frac{1}{4}$ sec. cor., a small mound of stone
with wood post in center of same. Reestablish the $\frac{1}{4}$ sec.
cor. as follows:
Set a granite stone, 16 X 10 X 6 ins., 12 ins. in the
center of the mound of stone, mkd. $\frac{1}{4}$ on N. face, and
raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of
cor.
Thence
West on a true line on the W. $\frac{1}{2}$ bet. secs. 14 and 23.
Over rolling land, thru. dense brush.
30.64 Wash, 10 lks. wide, course SW.
36.59 Wash, 12 lks. wide, course SW.
40.11 Intersect the original cor. of secs. 14, 15, 22 and 23,
which is a badly decayed post in a mound of stone.
Reestablish the sec. cor., as follows:
Set a granite stone, 16 X 10 X 10 ins., 12 ins. in the

Retracement, Resurvey and Survey
of part of the subdivisions lines of T. 13 S., R. 15 E. 15

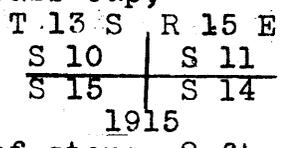
Chains center of the mound of stone, marked with 3 notches on S. and 2 notches on E. edge., and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
Land, rolling.
Soil, rocky, 4th. rate.
No timber.
Undergrowth, dense mesquite, cactus and palo verde.

From the cor. of secs. 14, 15. 22 and 23, hereinbefore described,
N. 3° 36' W. on a true line bet. secs. 14 and 15.
Over rolling land, thru dense brush.
14.60 Road, bears NE. and SW.
22.55 Sandy wash, course SW.
32.30 Road, bears NE. and SW.
38.04 The ¼ sec. cor. which is a badly rotted post, faintly mkd., lying on a small mound of stone. In same place, Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished ¼ sec. cor., marked on brass cap,



from which
A mesquite, 4 ins. in diam., bears N. 53¼° E, 49 lks. dist., marked ¼ S 14 BT.
A mesquite, 10 ins. in diam., bears N. 22¾° W., 300 lks. dist, marked ¼ S 15 BT.

Thence
N. 1° 22' W. on a true line on N. ½ bet. secs. 14 and 15.
Over level land, thru. dense brush.
13.30 Intersect the reestablished closing cor. of secs. 14 and 15 on N. bdy. of Camp Lowell Abandoned Military Reservation, hereinbefore described.
Continue line and measurement on amended Reservation bdy.
25.07 Wash, 20 lks. wide, course SE. Ascend S. slope.
39.92 A point 114 ft. above wash, intersect the old cor. of secs. 10, 11, 14 and 15, a post almost rotted away, in a small mound of stone. In the same place.
Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 10, 11, 14 and 15, marked on brass cap,



and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
Land, level, rolling and mountainous.
Soil, gravel and stony, 3rd. and 4th. rate.
No timber.
Undergrowth, mesquite, palo verde and cactus.

40.00 East on a random line bet. secs. 11 and 14.
Set temp ¼ sec. cor.
80.18 Intersect N. and S. line 21 lks. S. of the reestablished cor. of secs. 11, 12, 13 and 14, hereinbefore described.
Thence

SURVEY

S. 89° 51' W. on a true line bet. secs. 11 and 14.
Along rough S. slope of mountains, descending from spur, thru. dense brush.
15.30 Wash, 15 lks. wide, course SW., 99 ft. below spur, and over low rolling hills.
31.15 Wash, 15 lks. wide, course S.
40.09 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground, in a mound of stone, for reestablished ¼

Retracement, Resurvey and Survey
of part of the subdivision lines of T. 13 S., R. 15 E.

Chains

sec. cor., marked on brass cap,

S 11

S 14

1915

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.
of cor. No trace of the old $\frac{1}{4}$ sec. cor. could be found.

RESURVEY

42.30 Wash, 15 lks. wide, course S.
54.60 Wash, 10 lks. wide, course S.
64.35 Wash, 10 lks. wide, course SW.
67.95 Wash, 15 lks. wide, course SE.
80.18 The reestablished cor. of secs. 10, 11, 14 and 15.
Land, hilly and mountainous.
Soil, rocky, 4th. rate.
No timber.
Undergrowth, catclaw, palo verde and mesquite.

SURVEY

From reestablished cor. of secs. 10, 11, 14 and 15.
N. $0^{\circ} 1'$ W. bet. secs. 10 and 11, on amended Reservation
boundary.

Ascend rough S. slope, thru. dense brush.

24.15 Ridge, brs, NE. and SW., 353 ft. above cor. Descend.
37.35 Wash, 100 lks. wide, in bottom of Bear canyon, course SW.,
451 ft. below top of ridge, ascend.
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in
the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked
on brass cap,

$$\begin{array}{c} \frac{1}{4} S 10 \quad | \quad S 11 \\ 1915 \end{array}$$

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.
of cor.

53.45 Spur, slopes SW., 332 ft. above wash, along W. slope, asc.
63.20 60 ft. above spur. Descend NW. slope.
67.15 Wash, 15 lks. wide, course SW. 41 ft. below 63.20 ch. point.
Ascend.
80.00 A point 390 ft. above wash, set an iron post, 3 ft. long,
2 ins. in diam., 24 ins. in the ground for cor. of secs.
2, 3, 10 and 11, marked on brass cap,

$$\begin{array}{c} T13S - R15E \\ S 3 \quad | \quad S 2 \\ S 10 \quad | \quad S 11 \\ 1915 \end{array}$$

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.
of cor.

Land, mountainous.

Soil, rocky, 4th. rate.

No timber.

Undergrowth, catclaw, palo verde and cactus.

RESURVEY

From the reestablished cor. of secs. 14, 15, 22 and 23,
hereinbefore described,

N. $89^{\circ} 57'$ W. on a true line bet. secs. 15 and 22.

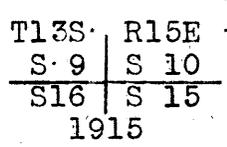
Over level land, thru brush.

9.00 Road, brs. NE. and SW.
30.00 Sandy wash, 35 lks. wide, course S.
38.10 Small sandy wash, course SW.
40.01 The old $\frac{1}{4}$ sec. cor. which is a post, 4 ins. sq., 4 ft. long
in a mound of stone. Raise a mound of stone, 2 ft. base,
 $1\frac{1}{2}$ ft. high, N. of cor.
Thence
S. $86^{\circ} 01'$ W. on a true line on the W. $\frac{1}{2}$ bet. secs. 15 and
22, continuing measurement from the cor. of secs. 14, 15,

Retracement, Resurvey and Survey of a portion of the subdivision lines of T. 13 S., R. 15 E. 17

Chains 22 and 23.
 Over level land, thru. medium brush.
 54.10 Road, brs. N. and S.
 77.50 Rocky wash, 50 lks. wide, 15 ft. deep, course S.
 80.00 Enter old river bed, course SE. containing shallow running water, 40 lks wide.
 82.65 Leave river bed. Scattering trees and brush.
 83.34 The old cor. of secs. 15, 16, 21 and 22, which is a badly rotted post, faintly marked, in a mound of stone. In the same place
 Set a granite stone, 18 X 12 X 6 ins., 12 ins. in the ground for reestablished cor. of secs. 15, 16, 21 and 22, marked with 3 notches on S. and E. face and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.
 Land, level.
 Soil, gravel and stony, 4th. rate.
 Timber, scattering along river bed.
 Undergrowth, catclaw, mesquite, palo verde and cactus.

 From the reestablished cor. of secs. 15, 16, 21 and 22, just above described,
 N. 0° 47' E. on a true line bet. secs. 15 and 16.
 Over level wash land, thru medium brush.
 1.20 Wire fence, brs. NW. and SE.
 6.50 Small stream, 5 lks. wide, 6 ins. deep (Sabino creek) course SE.
 20.00 Leave gravel wash land.
 40.65 The old 1/4 sec. cor. which is a post, faintly marked and set in a small mound of stone. Raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.
 Thence
 N. 1° 16' W. on a true line on the N. 1/4 bet. secs. 15 and 16, continuing measurement from the cor. of secs. 15, 16 21 and 22.
 54.05 Intersect the old N. bdy. of the Camp Lowell Military Reservation at a point 1.12 chs. S. 89°55' W. of the remains of the old 31 M. cor, ; now eliminated. No trace of the old closing cor. for secs. 15 and 16 could be found.
 80.77 Intersect the old. cor. of secs. 9, 10, 15 and 16, which is a post, faintly marked and set in a small mound of stone. In the same place
 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for the reestablished cor. of secs. 9, 10, 15, 16, marked on brass cap,



and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.
 Land, level and rolling.
 Soil, gravel and stony, 4th. rate.
 No timber.
 Undergrowth, catclaw, mesquite, palo verde and cactus.

SURVEY

From the cor. of secs. 9, 10, 15 and 16, just above described,
 East on a random line bet. secs. 10 and 15.
 40.00 Set temp. 1/4 sec. cor.
 80.42 Intersect N. and S. line 2 lks. S. of the reestablished cor. of secs. 10, 11, 14 and 15.
 Thence
 S. 99° 59' W. on a true line bet. secs. 10 and 15.
 Descend thru. dense brush.
 8.40 Wash, 15 lks. wide, course SE., 39 ft. below cor., Ascend.

Retracement, Resurvey and Survey
of a part of the subdivision lines of T. 13 S., R. 15 E.

- Chains
- 15.00 Spur, slopes S., 103 ft. above wash. Descend.
- 23.55 Wash, 10 lks. wide, course S. 130 ft. below spur. Ascend.
- 30.00 Spur, slopes S., 72 ft. above wash, Descend.
- 40.21 Point for $\frac{1}{4}$ sec. cor. falls in wash, 150 lks. wide, course SW. in bottom of Bear Canyon, water in holes. 188 ft. below spur, ascend.
- 41.12 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap.

S 10
 $\frac{1}{4}$ WC
S 15
1915

from which

A mesquite, 10 ins. in diam., bears N. 36° E., 72 lks. dist. marked WC $\frac{1}{4}$ S 10 BT.

A cottonwood, 14 ins. in diam., brs. S. 40° E., 110 lks. dist., marked WC $\frac{1}{4}$ S 15 BT.

- 45.60 Rim of canyon, 70 ft. above wash, and over rolling land.
- 45.82 F. A. Baier house, brs. S. 15° 27' W.
- 54.30 Wash, 10 lks. wide, course S.
- 64.40 Wash, 20 lks. wide, course S.
- 73.68 F. A. Baier house brs. S. 55° 20' E.
- 80.42 The reestablished cor. of secs. 9, 10, 15 and 16. Land, rolling and mountainous. Soil, rocky, 4th. rate. No timber. Undergrowth, mesquite, catclaw, palo verde and cactus.

N. 0° 1' W. bet. secs. 9 and 10.

Over rolling land, thru. scattering brush.

- 5.30 Wash. 10 lks. wide, course SW., asc.
- 13.25 Spur, slopes SW., 47 ft. above wash, desc.
- 33.55 Wash, 10 lks. wide, course SW., 86 ft. below spur. Ascend.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 15 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 9 | S 10
1915

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

- 50.15 Telephone line, brs. NE. and SW., on top of spur sloping SW., 150 ft. above wash, desc.
- 51.32 Trail, brs. E. and W.
- 78.90 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for witness cor. to cor. of secs. 3, 4, 9 and 10, marked on brass cap,

TL3S R15E
S4 | S3
S9 WC S10
1915

from which

A mesquite, 15 ins. in diam., brs. N. 9 $\frac{3}{4}$ ° W., 229 lks. dist., marked WC TL3S R15E S4 BT.

A cottonwood, 12 ins. in diam., brs. N. 50 $\frac{1}{4}$ ° E., 224 lks. dist., mkd. WC TL3S R15E S3 BT.

A mesquite, 10 ins. in diam., brs. S. 88 $\frac{1}{4}$ ° E., 65 lks. dist., marked WC TL3S R15E S10 BT.

A mesquite, 8 ins. in diam., brs. S. 42 $\frac{1}{4}$ ° W., 52 lks. dist., marked WC TL3S R15E S9 BT.

- 80.00 Point for cor. of secs. 3, 4, 9 and 10 falls in Sabino Creek, clear running water, 20 lks. wide, 10 ins. deep, course SW., 240 ft. below spur. Land, mountainous. Soil, rocky, 4th. rate. No timber. Undergrowth, catclaw, mesquite, palo verde and cactus.

Retracement, Resurvey and Survey of a part of the subdivision lines of T. 13 S., R. 15 E.

Chains From the true point for cor. of secs. 3, 4, 9 and 10.
 N. 89° 59' E. on a random line bet. secs. 3 and 10.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.36 Intersect N. and S. line 12 lks. S. of the cor. of secs. 2, 3, 10 and 11.
 Thence
 S. 89° 54' W. on a true line bet. secs. 3 and 10 on amended Reservation boundary.
 Ascending thru. scattering brush.
 11.25 Spur, slopes SW. 342 ft. above sec. cor., and along SW. slope, ascending.
 38.50 Ridge, brs. NE. and SW., 158 ft. above spur. Descend.
 40.18 Set an iron post, 3 ft. long, 1 in. in diam., on surface rock, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$$\begin{array}{r} S\ 3 \\ \frac{1}{4} \\ \hline S10 \\ 1915 \end{array}$$
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 62.00 Telephone line, brs. N. and S.
 62.50 Trail, brs. N. and S.
 80.36 A point 1298 ft. below ridge, the true point for cor. of secs. 3, 4, 9 and 10.
 Land, mountainous.
 Soil, rocky, 4th. rate.
 No timber.
 Undergrowth, palo verde, cat claw, mesquite and cactus.

RESURVEY

From the reestablished cor. of secs. 15, 16, 21 and 22, hereinbefore described,
 S. 88° 32' W. on a true line bet. secs. 16 and 21.
 Over level land, thru medium brush.
 9.67 Shallow sandy wash, 25 lks. wide, course SE.
 10.47 Wire fence, brs. N. and S.
 10.77 Road, brs. N. and S.
 17.77 Brushwood corral N. of line about 7.00 chs. dist.
 39.93 Small mound of stone, probably the old $\frac{1}{4}$ sec. cor.
 At same place,
 Set a granite stone, 14 X 12 X 5 ins., 10 ins. in the ground, marked $\frac{1}{4}$ on N. face, for reestablished $\frac{1}{4}$ sec. cor., and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 Thence
 N. 88° 56' W. on a true line on the W. $\frac{1}{2}$ bet. secs. 16 and 21. Continuing measurement from the cor. of secs. 15, 16, 21 and 22.
 50.97 Top of small spur, sloping N.
 61.27 Small rocky wash, course N.
 68.87 Wash, 10 lks. wide with brushy banks, course N.
 79.78 The old cor. of secs. 16, 17, 20 and 21, a mound of stone.
 Set a granite stone, 16 X 8 X 6 ins., 11 ins. in the mound of stone, marked with 3 notches on S. and 4 notches on E. face for the reestablished cor. of secs. 16, 17, 20 and 21, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Land, rolling and level.
 Soil, gravel and stony, 4th. rate.
 No timber.
 Undergrowth, catclaw, mesquite, palo verde and cactus.

From the reestablished cor. of secs. 16, 17, 20 and 21, just above described,
 N. 0° 1' E. on a true line bet. secs. 16 and 17.
 Over rolling land, thru scattering brush.

Retracement, Resurvey and Survey
of a part of the subdivisional lines of T. 13 S., R. 15 E.

Chains									
6.30	Small sandy wash, course NW.								
11.50	Road, brs. NE. and SW.								
12.80	Telephone line, brs. NE. and SW.								
40.39	Old $\frac{1}{4}$ sec. cor. of secs. 16 and 17 which is a stake almost rotted away, lying on a small mound of stone. In the same place, Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap								
	<table border="1"> <tr> <td>$\frac{1}{4}$S17</td> <td>S16</td> </tr> <tr> <td colspan="2" style="text-align: center;">1915</td> </tr> </table>	$\frac{1}{4}$ S17	S16	1915					
$\frac{1}{4}$ S17	S16								
1915									
	and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. <u>SURVEY</u>								
	Thence								
	N. $0^{\circ} 2'$ W. on a true line on the N. $\frac{1}{4}$ bet. secs. 16 and 17. Continue same measurement from cor. of secs. 16, 17, 20 and 21.								
40.30	Wash, 4 lks. wide, course W.								
53.99	Intersect the reestablished closing cor. of secs. 16 and 17, on N. bdy. of Camp Lowell Abandoned Military Reservation, hereinbefore described. Continue line and measurement on amended Reservation bdy.								
60.29	Road, brs. NE. and SW.								
62.39	Telephone line, brs. NE. and SW.								
68.09	Wash, 10 lks. wide, course SW.								
74.89	Road, brs. E. and W.								
80.39	Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 8, 9, 16 and 17, marked on brass cap,								
	<table border="1"> <tr> <td>T13S</td> <td>R15E</td> </tr> <tr> <td>S 8</td> <td>S 9</td> </tr> <tr> <td>S17</td> <td>S16</td> </tr> <tr> <td colspan="2" style="text-align: center;">1915</td> </tr> </table>	T13S	R15E	S 8	S 9	S17	S16	1915	
T13S	R15E								
S 8	S 9								
S17	S16								
1915									
	from which								
	A mesquite, 10 ins. in diam., brs. N. $56\frac{1}{4}^{\circ}$ W., 64 lks. dist., marked T13S R15E S 8 BT.								
	A mesquite, 6 ins. in diam., brs. N. $22\frac{3}{4}^{\circ}$ E. 167 lks. dist., marked T13S R15E S9 BT.								
	A mesquite, 6 ins. in diam. brs. S. $80\frac{1}{4}^{\circ}$ E. 121 lks. dist., marked T13 S R15E S16 BT.								
	A mesquite, 5 ins. in diam., brs. S. $15\frac{1}{4}^{\circ}$ W., 21 lks. dist., marked T13 S R15E S17 BT.								
	Land, nearly level. Soil, rocky and sandy, 3rd. rate. No timber. Undergrowth, mesquite, cat claw and palo verde.								
	East on a random line bet. secs. 9 and 16.								
40.00	Set temp. $\frac{1}{4}$ sec. cor.								
79.52	Intersect N. and S. line 44 lks. S. of the reestablished cor. of secs. 9, 10, 15 and 16. Thence								
	S. $89^{\circ} 41'$ W. on a true line bet. secs. 9 and 16. Descend thru. dense brush.								
17.30	Sabino Creek, clear running water, 10 lks. wide, 2 ins. deep, course SW., 83 ft. below cor., and over rolling land.								
20.30	Wire fence, brs. NW. and SE. Spring in cement tank, S. 125 lks.								
28.95	U. S. Forest Ranger's house, vacant, brs. brs. S. 10 lks.								
35.70	Wash, 30 lks. wide. course SE.								
39.76	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,								
	<table border="1"> <tr> <td>S 9</td> </tr> <tr> <td>$\frac{1}{4}$</td> </tr> <tr> <td>S 16</td> </tr> <tr> <td colspan="2" style="text-align: center;">1915</td> </tr> </table>	S 9	$\frac{1}{4}$	S 16	1915				
S 9									
$\frac{1}{4}$									
S 16									
1915									
	from which,								
	A mesquite, 6 ins. in diam., brs. N. $32\frac{1}{4}^{\circ}$ E., 29 lks.								

Chains	dist., marked $\frac{1}{4}$ S 9 BT. A mesquite, 7 ins. in diam., brs. S. $19\frac{3}{4}^\circ$ W., 9 lks. dist., marked $\frac{1}{4}$ S 16 BT.
55.20	Wash, 15 lks. wide, course SE.
58.95	Road, brs. NW. and SE.
79.52	The cor. of secs. 8, 9, 16 and 17. Land, mountainous and rolling. Soil, rocky, 4th. rate. No timber. Undergrowth, mesquite, catclaw, palo verde and cactus.

40.00	N. $0^\circ 2'$ W. bet. secs. 8 and 9, on amended Reservation Boundary. Over level land, thru. dense brush. Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\begin{array}{c} \frac{1}{4} \text{ S } 8 \quad \quad \text{S } 9 \\ \hline 1915 \end{array}$ from which A palo verde, 8 ins. in diam., brs. N. $54\frac{1}{4}^\circ$ W., 83 lks. dist., marked $\frac{1}{4}$ S 8 BT. A mesquite, 5 ins. in diam., brs. S. 11° E., 170 lks. dist., marked $\frac{1}{4}$ S 9 BT.
44.90	Wash, 15 lks. wide. course SW.
53.50	Wash, 15 lks. wide. course SE.
60.00	Ascend.
71.30	Spur, slopes E., 164 ft. above 60 ch. point. Descend.
73.85	Wash, 15 lks. wide, course SE., 58 ft. below spur. Ascend.
80.00	Set an iron post, 3 ft. long, 2 ins. in diam. in a mound of stone, for cor. of secs. 4, 5, 8 and 9, marked on brass cap, $\begin{array}{c} \text{T } 13 \text{ S } \text{ R } 15 \text{ E} \\ \hline \text{S } 5 \quad \quad \text{S } 4 \\ \hline \text{S } 8 \quad \quad \text{S } 9 \\ \hline 1915 \end{array}$ and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. This cor. is 81 ft. above wash. Land, level and mountainous. Soil, sandy and rocky, 4th. rate. No timber. Undergrowth, catclaw, palo verde and mesquite.

40.00	N. $89^\circ 41'$ E. on a random line bet. secs. 4 and 9. Set temp. $\frac{1}{4}$ sec. cor.
79.50	Intersect N. and S. line, 3 lks. S. of the true point for cor. of secs. 3, 4, 9 and 10. Thence, S. $89^\circ 40'$ W. on a true line bet. secs. 4 and 9, on amended Reservation Boundary.
8.20	Along in bottom of canyon, thru. scattering brush. Ascend.
21.50	Ridge, brs. N. and S., 267 ft. above 8.20 ch. point. Descend.
30.75	Wash, 15 lks. wide, course SE. 206 ft. below ridge.
32.65	Wash, 20 lks. wide, course SE. Asc. along NE. slope.
39.75	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\begin{array}{c} \text{S } 4 \\ \hline \frac{1}{4} \\ \hline \text{S } 9 \\ \hline 1915 \end{array}$ and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
49.65	90 ft. above wash, descend NW. slope.
55.75	21 ft. below 49.65 ch. point. Ascend.
60.50	Spur, slopes SW. 102 ft. above 55.75 ch. point. Descend.

Retracement, Resurvey and Survey
of a part of the subdivision lines of T. 13 S., R. 15 E.

Chains
62.00 Wash, 10 lks. wide, course SE., 25 ft. below spur. Ascend.
69.10 Spur, slopes SW., 60 ft. above wash. Descend.
77.00 Wash, 15 lks. wide, course SE. 86 ft. below spur. Ascend.
79.50 The cor. of secs. 4, 5, 8 and 9, 30 ft. above wash.
Land, mountainous.
Soil, rocky, 4th. rate.
No timber.
Undergrowth, catclaw, palo verde and mesquite.

N. 0° 2' W. on a true line bet. secs. 4 and 5.
Ascend rough rocky slope, thru. scattering brush.
17.50 Spur, slopes SW. 255 ft. above cor. Descend.
28.70 Wash, 15 lks. wide, course SW. 68 ft. below spur; ascend.
40.00 A point 142 ft. above wash, set an iron post, 3 ft. long,
1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.,
marked on brass cap,

$\frac{1}{4}$ S5 | S4
1915

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.
of cor.

Survey discontinued at this point on Dec. 12, 1915.

Survey continued Jan. 19, 1917.

From the $\frac{1}{4}$ cor. of secs. 4 and 5.

N. 0° 2' W. on a random line continuing measurement from
the cor. of secs. 4, 5, 8 and 9.

Ascend steep rough slope of Catalina Mountains.

56.00 Spur, slopes SW., 354 ft. above $\frac{1}{4}$ sec. cor.

Ascend along SW. slope.

61.50 Spur slopes W., 127 ft. above last mentioned spur.

Thence along W. slope, continuing ascent.

73.05 Intersect the witness cor. to cor. of secs. 4, 5, 32 and
33 set in connection with the survey of part of the N.
bdy. of the Twp., as hereinbefore described at a point
7.00 chs. S. 0° 2' E. of the cor. point.

80.05 True point for. cor. of secs. 4, 5, 32 and 33 on N. bdy.
of Tp. on face of cliffs bearing NE. and SW. facing NW.,
inaccessable.

Land, rough and mountainous.

Soil, rocky, 4th. rate.

No timber.

Undergrowth, dense catclaw and palo verde.

The old cor. of secs. 7, 8, 17 and 18 is a post almost
rotted away, lying on the ground, with stump of bearing
tree to NE., with marks VIII still visible. In the same
place

Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in
the ground, for reestablished cor. of secs. 7, 8, 17 and
18, marked on brass cap,

T13S R15E
S 7 | S 8
S18 | S17
1915

from which

A mesquite, 4 ins. in diam., brs. N. $54\frac{1}{4}$ ° W., 163 lks.
dist., marked T13S R15E S7 BT.

A mesquite, 4 ins. in diam., brs. N. 45° E., 84 lks.
dist., marked T13S R15E S8 BT.

A mesquite, 5 ins. in diam., brs. S. $7\frac{3}{4}$ ° E., 67 lks.
dist., marked T13S R15E S17 BT.

A mesquite, 6 ins. in diam., brs. S. $9\frac{3}{4}$ ° W., 94 lks.
dist., marked T13S R15E S18 BT.

Thence

East on a random line bet. secs. 8 and 17.

Retracement, Resurvey and Survey
of a part of the subdivision lines of T. 13 S., R. 15 E.

Chains
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.76 Intersect N. and S. line 32 lks. S. of the cor. of secs. 8, 9, 16 and 17.
Thence
S. $89^{\circ} 46'$ W. on a true line bet. secs. 8 and 17.
Over rolling land, thru. dense brush.
6.15 Wash, 10 lks. wide, course SE.
17.95 Wash, 10 lks. wide, course SW.
26.25 Road, brs. NW. and SE.
38.75 Wash, 100 lks. wide, course SW.
39.88 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,

$$\begin{array}{r} S\ 8 \\ \frac{1}{4} \\ \hline S\ 17 \\ 1915 \end{array}$$
from which
A mesquite, 4 ins. in diam., brs. N. $31\frac{1}{4}^{\circ}$ E., 29 lks. dist., marked $\frac{1}{4}$ S8 BT.
A mesquite, 8 ins. in diam., brs. S. $33\frac{1}{4}^{\circ}$ W., 30 lks. dist., marked $\frac{1}{4}$ S17 BT.
54.65 Road, brs. NW. and SE.
69.75 Wash, 50 lks. wide, course SE.
79.76 The reestablished cor. of secs. 7, 8, 17 and 18.
Land, rolling.
Soil, sandy and rocky, 3rd. rate.
No timber.
Undergrowth, catclaw, mesquite and palo verde.

40.00 West on a random line bet. secs. 7 and 18.
Set temp. $\frac{1}{4}$ sec. cor.
79.87 Intersect W. bdy. of Tp. 32 lks. N. of the reestablished cor. of secs. 7, 12, 13 and 18, hereinbefore described.
Thence
N. $89^{\circ} 46'$ E. on a true line bet. secs. 7 and 18.
Ascend thru. dense brush.
3.90 Ridge, brs. N. and S., 30 ft. above cor. Descend.
12.20 Wash; 16 lks. wide, course SE., 104 ft. below ridge, asc.
22.00 76 ft. above wash, thence over rolling land.
39.87 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,

$$\begin{array}{r} S\ 7 \\ \frac{1}{4} \\ \hline S\ 18 \\ 1915 \end{array}$$
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
60.90 Wash, 15 lks. wide, course SE.
72.90 Wash, 20 lks. wide, course SE.
75.00 Road, brs. N. and S.
78.75 Road, brs. NE. and SW.
79.87 The reestablished cor. of secs. 7, 8, 17 and 18.
Land, rolling.
Soil, sandy and rocky, 3rd. rate.
No timber.
Undergrowth, mesquite, catclaw and palo verde.

N. $0^{\circ} 3'$ W. bet. secs. 7 and 8.
Over rolling land, thru. dense brush.
7.10 Road, brs. NE. and SW.
8.00 Wash, 10 lks. wide, course SE.
11.50 Wash, 30 lks. wide, course SE.
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$$\begin{array}{r} \frac{1}{4}S7\ | \ S8 \\ 1915 \end{array}$$

Retracement, Resurvey and Survey
of a part of the subdivision lines of T. 13 S., R. 15 E.

Chains

from which

A mesquite, 8 ins. in diam., brs. N. $87\frac{1}{2}^\circ$ W., 76 lks. dist., marked $\frac{1}{4}$ S 7 BT.

A mesquite, 6 ins. in diam., brs. N. 69° E., 35 lks. dist., marked $\frac{1}{4}$ S 8 BT.

47.30 Road, brs. NW. and SE.

53.00 Wash, 15 lks. wide, course SE.

58.50 Wash, 20 lks. wide, course SW.

75.00 Wash, 30 lks. wide, course SE.

78.25 Same wash, 50 lks. wide, course SW.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 5, 6, 7 and 8, marked on brass cap,

T13S	R15E
S 6	S 5
S 7	S 8
1915	

from which

A catclaw, 4 ins. in diam., brs. N. $87\frac{1}{4}^\circ$ W., 24 lks. dist., marked T13S R15E S6 BT.

A mesquite, 5 ins. in diam., brs. N. $13\frac{1}{4}^\circ$ E., 49 lks. dist., marked T13S R15E S5 BT.

A catclaw, 6 ins. in diam., brs. S. 79° E., 44 lks. dist., marked T13S R15E S8 BT.

A palo verde, 10 ins. in diam., brs. S. $45\frac{1}{2}^\circ$ W. 70 lks. dist., marked T13S R15E S7 BT.

Land, rolling.

Soil, sandy loam, dry medium texture, 2nd. rate.

No timber.

Undergrowth, mesquite, catclaw and palo verde.

40.00 N. $89^\circ 46'$ E. on a random line bet. secs. 5 and 8. Set temp. $\frac{1}{4}$ sec. cor.

79.74 Intersect N. and S. line 5 lks. N. of the cor. of secs. 4, 5, 8 and 9.

Thence

S. $89^\circ 48'$ W., on a true line bet. secs. 5 and 8.

Along SW. slope, descending thru. scattering brush.

25.05 Wash, 20 lks. wide, course SW., 35 ft. below cor., and over rolling land, thru. dense brush.

37.24 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap,

WC	S 5
	$\frac{1}{4}$
	S 8
1915	

from which

A palo verde, 5 ins. in diam., brs. S. $63\frac{3}{4}^\circ$ E., 39 lks. dist., marked WC $\frac{1}{4}$ S8 BT.

No other bearing available. Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

39.87 True point for $\frac{1}{4}$ sec. cor falls in wash, 15 lks. wide, course SE.

49.45 Wash, 15 lks. wide, course SE.

69.55 Wash, 10 lks. wide, course S.

78.25 Wash, 50 lks. wide, course SE.

79.74 The cor. of secs. 5, 6, 7 and 8.

Land, rolling mountainous.

Soil, rocky, 4th. rate.

No timber.

Undergrowth, catclaw, mesquite and palo verde.

S. $89^\circ 46'$ W. on a random line bet. secs. 6 and 7.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.85 Intersect W. bdy. of Tp. 9 lks. S. of the cor. of secs. 1, 6, 7 and 12, hereinbefore described.

Retracement, Resurvey and Survey of a part of the subdivision lines of T. 13 S., R. 15 E. 25

Chains	<p>Thence N. 89° 50' E. on a true line bet. secs. 6 and 7. Over rolling land, thru. dense brush.</p> <p>5.98 Wash, 15 lks. wide, course SE. 12.50 Wash, 20 lks. wide, course SE. 15.52 Road, brs. NE. and SW. 31.10 Wash, 20 lks. wide, course SE. 39.85 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,</p> <p style="text-align: center;">S 6 $\frac{1}{4}$ S 7 1915</p> <p>and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, N. of cor.</p> <p>41.90 Wash, 15 lks. wide, course SE. 48.20 Wash, 20 lks. wide, course SE. 60.95 Road, brs. NW. and SE. 79.85 The cor. of secs. 5, 6, 7 and 8. Land, rolling. Soil, rocky, 4th. rate. No timber. Undergrowth, mesquite, catclaw and palo verde.</p> <hr style="border-top: 1px dashed black;"/> <p>N. 0° 3' W. on a true line bet. secs. 5 and 6. Over rolling land, thru dense brush.</p> <p>3.70 Wash, 20 lks. wide, course SE. 10.00 Ascend rough S. slope. 40.00 A point 470 ft. above 10.00 ch. point, set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,</p> <p style="text-align: center;">$\frac{1}{4}$ S6 S 5 1915</p> <p>from which A mesquite, 7 ins. in diam., brs. N. 13° W., 49 lks. dist., marked $\frac{1}{4}$ S6 BT. A mesquite, 6 ins. in diam., brs. N. 43$\frac{3}{4}$° E. 63 lks. dist., marked $\frac{1}{4}$ S 5 BT.</p> <p>Survey discontinued at this cor. on Dec. 16, 1915. Survey continued on Jan. 18, 1917. From $\frac{1}{4}$ sec. cor. of secs. 5 and 6, N. 0° 3' W. on a random line, continuing measurement from the cor. of secs. 5, 6, 7 and 8. Enter Coronado National Forest. Descend gradually thru. dense brush.</p> <p>44.34 Wash, 10 lks. wide, course W. Ascend steep broken S. slope. 80.07 Intersect the cor. of secs. 5, 6, 31 and 32, hereinbefore described. Land, mountainous. Soil, rocky, 4th. rate. No timber. Undergrowth, dense catclaw, mesquite and palo verde.</p> <hr style="border-top: 1px dashed black;"/> <p style="text-align: center;"><u>GENERAL DESCRIPTION.</u></p> <p>The part of this town ship surveyed lies along the South slope and at the foot of the Santa Catalina Mountains. The soil is generally rocky. There is no timber. Pure water runs in Sabino and Bear Creeks. There is one settler in sec. 15.</p> <hr style="border-top: 1px dashed black;"/>
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That Portion of T. 13 S., R. 15 E., Surveyed and Re-
surveyed under This Group.

Latitudes, Departures, and Closing Errors.

Line designated	True Course	Dist. chs.	Latitudes		Departures	
			N. chs.	S. chs.	E. chs.	W. chs.
Subdivisional South Boundary	N.88°44'W.	40.36	.89			40.36
	S.89°04'W.	39.86		.65		39.85
	N.89°58'W.	40.06	.02			40.06
	WEST	40.11				40.11
	N.89°57'W.	40.01	.03			40.01
	S.86°01'W.	43.33		3.01		43.23
	S.88°32'W.	39.93		1.02		39.92
	N.88°56'W.	39.85	.74			39.84
	N.0°01'E.	40.39	40.39			.01
	N.0°02'W.	40.00	40.00			.02
S.89°46'W.	159.63			.65		159.63
West Boundary of Tp.,	NORTH	160.00	160.00			
North Boundary of Tp.,	EAST	159.72			159.72	
Subdivisional North Boundary	S.0°02'E.	80.05		80.05	.05	
	N.89°40'E.	79.50	.46		79.50	
	N.89°54'E.	80.36	.14		80.36	
	S.0°01'E.	80.00		80.00	.02	
	N.89°51'E.	80.18	.21		80.18	
S.89°51'E.	82.74			.22	82.74	
East Boundary of Tp.,	SOUTH	40.00		40.00		
	S.1°00'E.	38.33		38.32	.67	
Convergency					.13	
Totals			242.88	243.92	483.38	483.02
				242.88	483.02	
Error in latitude				1.04		
Error in departure				.36		

BOOK 3189

CERTIFICATE OF UNITED STATES CADASTRAL ENGINEER,
Arthur W. Brown.

I, Arthur W. Brown, U. S. Cadastral Engineer,
~~U. S. Surveyor~~, hereby certify upon honor that, in pursuance

of special instructions received from the U. S. Surveyor General, for Group 57, Arizona

bearing date of the 1st day of October, 1915, 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, ~~surveyed all those parts or portions of~~

RETRACED all those parts or portions of the subdivision lines

and

RESURVEYED all those parts or portions of the subdivision lines

of

T. 13 S., R. 15 E. of the Gila and Salt River

Base and Meridian, in the State of Arizona, which are represented in
and diagram on page 2 hereof

the foregoing field notes, ^{retracement and resurvey} as having been executed by me, and under my direction; and that all the corners of
said ~~survey~~ have been established and perpetuated in strict accordance with the Manual of Surveying Instruc-
tions, and the special written instructions of the U. S. Surveyor General, for Group 57, Arizona,
and in the specific manner described in the field notes, and that the foregoing are the original field notes of
~~such survey.~~ such retracement and resurvey.

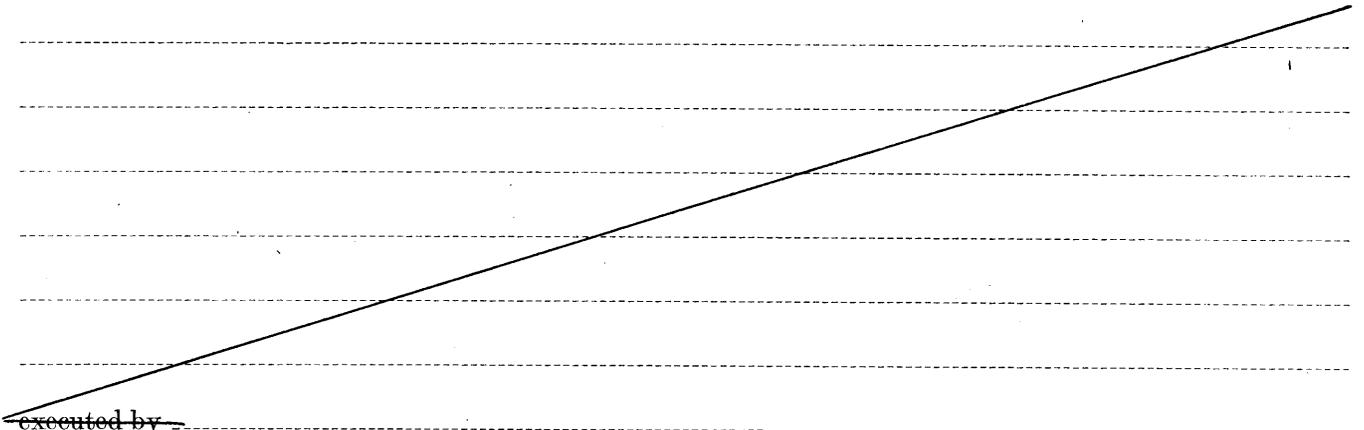
Arthur W. Brown
U. S. Cadastral ~~Engineer~~ ^{U. S. Surveyor}.

APPROVAL

~~OFFICE OF THE UNITED STATES SURVEYOR GENERAL,~~

~~191~~

The foregoing field notes of the survey of



~~executed by~~
~~under his special instructions dated~~ _____, 191____, having been
~~critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys~~
~~they describe, are hereby approved.~~

~~U. S. Surveyor General~~

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. Surveyor General~~

