

# FIELD NOTES

BOOK 3920

## OF RESURVEY OF THE

Part of the East Boundary

Part of the North Boundary

and Part of the Subdivision Lines of

Township 15 South - Range 16 East

## AND OF SURVEY OF

Part (Completion) of the East Boundary

Part (Completion) of the North Boundary

and Part (Completion) of the Subdivision Lines of

Township 15 South - Range 16 East

*Of the Gila and Salt River Base and Meridian,*

In the State of ARIZONA

EXECUTED BY

*Dupree R. Averill*

*U.S. Surveyor*

In the capacity of U. S. Surveyor, under Special Instructions dated *June 17*,  
*1930*, issued by the District Cadastral Engineer to govern surveys included in Group  
*No. 163 Arizona*, which were approved by the Commissioner of the General Land  
Office, *July 25*, 1930, and Assignment Instructions dated *September 1*, 1930.

Resurvey and Survey commenced *October 7*, 1930.

Resurvey and Survey completed *October 20*, 1930.

3920

3920

# INDEX DIAGRAM.

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

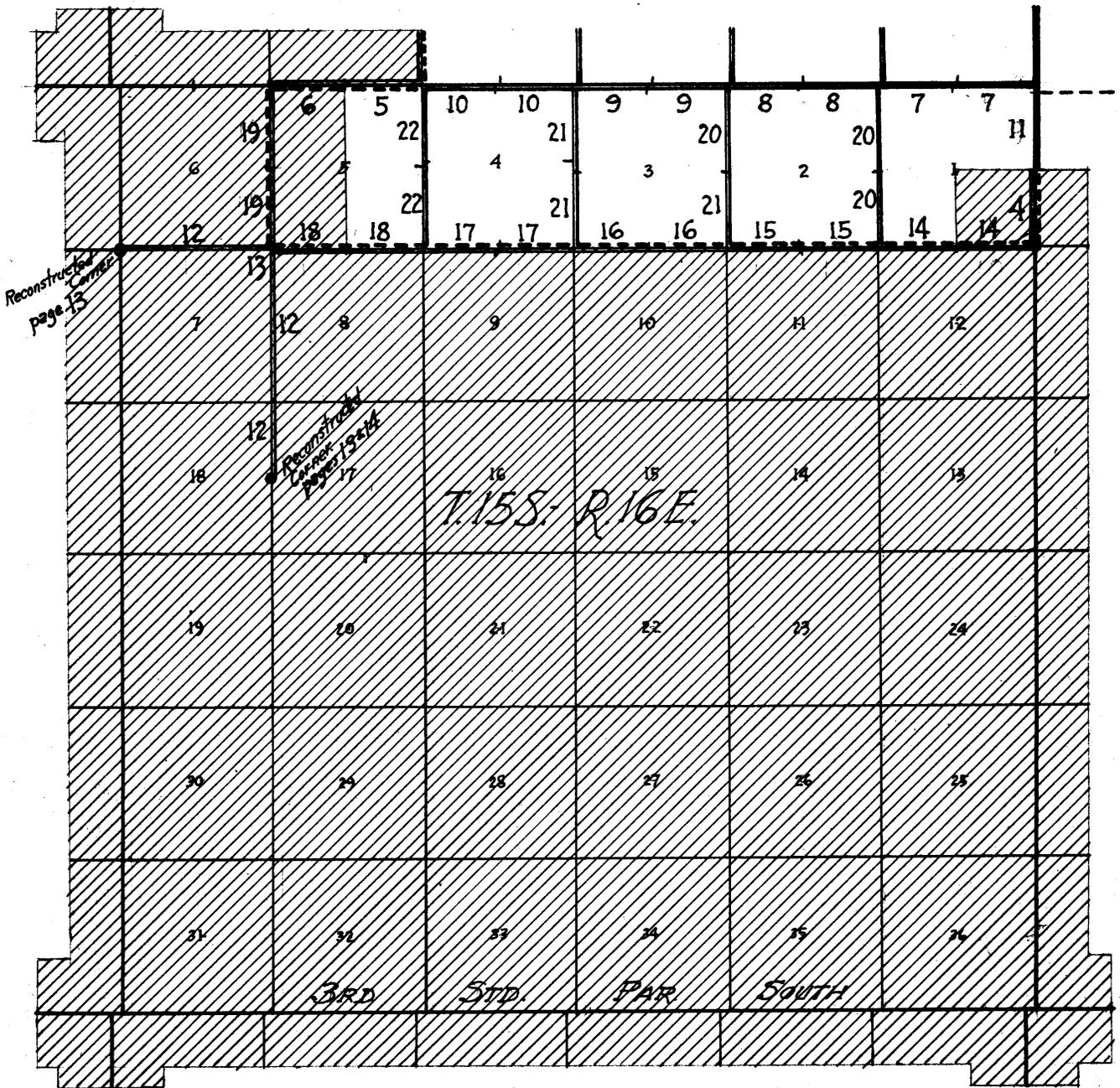
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
26	29	28	27	26	25
31	32	33	34	35	36

5

(1A)

Book "C"  
Group 163 - Arizona  
INDEX DIAGRAM

BOOK 3920



- Resurveyed under this group.
- Retracements for Resurveys of this group, extending beyond the limits of the resurveyed lines.
- Surveyed under this group.
- Unsurveyed lines.
- Accepted, surveyed lines.
- Areas surveyed as per accepted plats on file.

Book "C"  
 Group 163-Arizona  
 DATE ~ DIAGRAM  
 1930

BOOK 3920

	10-13	10-13	10-11	10-11	10-11
6	5	4	3	2	1
10-8	10-18	10-18	10-18	10-18	10-18
7	8	9	10	11	12
18	17	16 <i>T.15S. - R.16E.</i>	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

----- Resurveyed on dates (1930) shown thereon, by Dupree R. Averill, U.S. Surveyor. Notes herein.

\_\_\_\_\_ Retraced for Resurvey, on dates (1930) shown thereon, by Dupree R. Averill, U.S. Surveyor. Notes herein.

\_\_\_\_\_ Surveyed under this group, on dates (1930) shown thereon, by Dupree R. Averill, U.S. Surveyor. Notes herein.

\_\_\_\_\_ Accepted, surveyed lines.

T.15 S., R.16 E. Arizona.

Resurveys and surveys herein described were executed by D.R. Averill, U.S. Surveyor, on dates shown on diagram on page 2 hereof, using a Buff and Buff transit No. 17992 provided with a Smith solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, and reading to single minutes of arc, which is also the least count of the verniers of the lat. and decl. arcs. Unless otherwise specified all azimuth determinations are accomplished with the solar attachment.

The instrument was examined and approved by the District Cadastral Engineer for Ariz. and Calif. at Phoenix, Ariz. on Sept. 1, 1930, conditional upon satisfactory field tests of same.

PRELIMINARY FIELD TESTS.

October 6, 1930:

Examine the adjustments of the transit and solar apparatus and find them correct, then, to test the solar apparatus by comparing its indications resulting from observations made during a.m. and p.m. hours, compared with a true meridian established by Polaris observations, proceed as follows:

October 6, 1930:

at camp, in NW. quarter of sec. 8, T.15 S., R.16 E., G. & S.R. B. & M., Arizona, latitude  $32^{\circ} 8\frac{1}{2}' N.$ , longitude  $110^{\circ} 44' W.$ , at 6h. 42m., p.m., l.m.t., observe Polaris at eastern elongation, making four observations, two each with the telescope in direct and reversed positions, marking the mean point in the line thus determined by a nail in a stake driven firmly in the ground 5 chs. N.

Azimuth of Polaris at eastern elongation =  $1^{\circ} 15' 42''$

October 7, 1930:

at 7h. 0m. a.m., lay off the azimuth of Polaris  $1^{\circ} 15\frac{1}{2}'$  to the west, and mark a point in the true meridian thus determined by a nail in a stake driven firmly in the ground, 5 chs. N.

At 8h. 0m., a.m., app. t., set off  $32^{\circ} 8\frac{1}{2}' N.$  on the lat. arc,  $5^{\circ} 21\frac{1}{2}' S.$  on the decl. arc, and determine a meridian with the solar, which agrees with the true meridian.

At app. noon, with the lat. arc unchanged, observe the sun on the meridian, obtaining a reading of  $5^{\circ} 26' S.$  on the decl. arc, which agrees with the computed declination of the sun.

At 4h. 0m., p.m., app. t., with the lat. arc unchanged, set off  $5^{\circ} 29' S.$  on the decl. 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 define positions for meridian which agree within 1' with the meridian established by Polaris observations, conclude that the instrument is in satisfactory adjustment.

Unless otherwise specified, all measurements herein recorded were obtained by the use of a Lallie steel tape, 5 chs. in length, compared with a Lufkin standard steel tape and found correct.

The measurements are made on the slope, vertical angles determined with clinometer, and the slope measurements properly reduced to true horizontal equivalents for entry in the field notes.

Resurvey of Part of the East Boundary of Township 15 South, Range 16 East.

Chains

The south five and one-half miles of the East bdy. of T.15 S., R.16 E. were surveyed due north by U.S. Deputy Surveyor J.H. Martineau, in 1893, establishing common reference cors. thereon at 40 ch. intervals. No retracement or resurvey of any part of this Tp. bdy. is of record.

The following notes describe a dependent resurvey of the south half of the line bet. secs. 1 and 6, reconstructing the original cor. of secs. 1, 6, 7 and 12, and reestablishing the missing 1/4 sec. cor. of secs. 1 and 6.

Retracement for Resurvey.

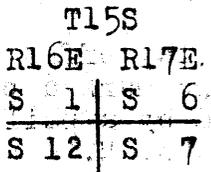
40.00

From original cor. of secs. 1, 6, 7 and 12, North, on random line, bet. secs. 1 and 6 (S. 1/2) Diligent search in this vicinity fails to reveal any trace of the original 1/4 sec. cor. of secs. 1 and 6. Set temp. 1/4 sec. cor. As the range line north of this point is unsurveyed the resurvey of the S. 1/2 of line bet. secs. 1 and 6 must reproduce the record course and dist. of North, 40.00 chs.

Resurvey.

The original cor. of secs. 1, 6, 7 and 12 is a granite stone 18x10x4 ins., marked with 1 notch on N. face and 5 notches on S. face, and firmly set in a mound of stone. No bearing trees or other accessories.

Reconstruct this cor. monument as follows: remove the mound of stone, and in center of its position reset the cor. stone 6 ins. in the ground, and alongside same set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground to bedrock, and rebuild mound of stone 5 ft. base, 2 1/2 ft. high, around post, for cor. of secs. 1, 6, 7 and 12, marked on brass cap



1930

No bearing trees available.

Thence North, on true line, bet. secs. 1 and 6 (S. 1/2) Over broken and mountainous land, thru scattering timber and undergrowth.

7.20

Asc. 135 ft. over SE. slope. Spur, slopes SW. from N. Asc. 100 ft. along top of this spur.

25.00

Leave top of spur, slopes S. from N. 30°W. Asc. 200 ft. over E. and SE. slopes to

40.00

Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, deposit a stone marked with a cross (X) at base of post, and raise a mound of stone around post, for reestablished 1/4 sec. cor. of secs. 1 and 6, marked on brass cap



1930

No bearing trees available.

Land, broken and mountainous. Soil, rocky, 3rd rate. Timber, paloverde and mountain mahogany. Undergrowth, greasewood and cacti.

Resurvey of  
Part of the North Boundary of Township 15 South, Range 16 East.

Chains The west two miles of the North bdy. of T.15 S., R.16 E. were surveyed due East by J.H. Martineau, U.S.D.S. in 1893, establishing the  $\frac{1}{4}$  sec. cor. of secs. 1 and 36 at 39.64 chs. E. from Tp. cor., and the remainder of the common reference cors. at 40 ch. intervals.

The Tp. cor. was established by Deputy Surveyor Martineau in 1893 with a four township reference. This cor. was altered in 1897 by Philip Contzen U.S.D.S. to refer to Ts. 15 S., Rs. 15 and 16 E. only, when he reestablished cor. of Ts. 14 S., Rs. 15 & 16 E. at 3.37 chs. W. from the original Tp. cor.

No retracement or resurvey of any part of the west two miles of this Tp. bdy. is of record, and the east four miles of the line are unsurveyed.

Survey of the east 4 miles of the line executed under this group as hereinafter described.

The following notes describe a dependent resurvey of the portion of the line bet. secs. 5 and 32.

Retracement for Resurvey.

From original cor. of secs. 5, 6, 31 and 32, East, on random line, bet. secs. 5 and 32 (W.  $\frac{1}{2}$ )

39.98 Fall 6 lks. S. of original  $\frac{1}{4}$  sec. cor.  
True course and dist. of W.  $\frac{1}{2}$  of line bet. secs. 5 and 32 are therefore, S. 89° 55' W., 39.98 chs.

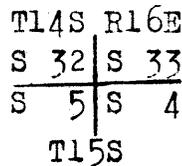
Thence East, on random line, bet. secs. 5 and 32 (E.  $\frac{1}{2}$ )

39.26 Fall 10 lks. N. of original cor. of secs. 4, 5, 32 and 33.  
True course and dist. of E.  $\frac{1}{2}$  of line bet. secs. 5 and 32 are therefore, N. 89° 51' W., 39.26 chs.

Resurvey.

The original cor. of secs. 4, 5, 32 & 33 is a granite stone 30x18x10 ins., illegibly marked on E. and W. faces, and firmly set in a mound of stone. No bearing trees or other accessories.

Reconstruct this cor. monument as follows: remove the mound of stone, and in center of its position reset old cor. stone on surface rock, and alongside same, set an iron post, 3 ft. long, 2 ins. diam., on surface rock, and rebuild mound of stone 5 ft. base, 3 ft. high, around post, for cor. of secs. 4, 5, 32 and 33, marked on brass cap



1930

No bearing trees available.

Thence N. 89° 51' W., on true line, bet. secs. 5 and 32 (E.  $\frac{1}{2}$ )

Over mountainous land, thru scattering timber and undergrowth.

Desc. 250 ft. over broken NW. slope.

7.80 Wire fence, bears N. and S.

20.00 Wash, course SW. Thence over rolling and broken S. slope. Ascend 20 ft. to  $\frac{1}{4}$  sec. cor.

35.00 Road, bears N. and S.

39.00 Drain, course S.

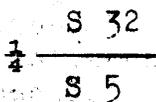
39.26 Intersect the original  $\frac{1}{4}$  sec. cor., which is an igneous stone 6x6x4 ins. above ground, firmly set, marked  $\frac{1}{4}$  on N. face. No accessories.

Reconstruct this cor. monument as follows: alongside the stone, set an iron post, 3 ft. long, 1 in.

Resurvey of  
Part of the North Boundary of Township 15 South, Range 16 East

Chains

diam., 30 ins. in the ground, for 1/4 sec. cor. of secs. 5 and 32, marked on brass cap



1930

No bearing trees available.  
Raise a mound of stone, 3 ft. base, 1 1/2 ft. high, N. of cor.

Thence

S. 89° 55' W., on true line, bet. secs. 5 and 32 (W. 1/2)

Over rolling land, thru scattering timber and undergrowth.

Asc. 45 ft. over SE. slope.

3.60 Flat-topped spur, slopes SW. Desc. 120 ft. over NW. slope.

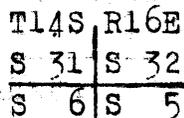
10.60 Old road, bears NE. and SW.

34.40 Wash, 50 lks. wide, course SW. Asc. gradually over SE. slope to

39.98 Intersect the original cor. of secs. 5, 6, 31 and 32, which is an igneous stone 25x18x12 ins., marked with 1 notch on W. face, 5 notches on E. face, and firmly set in a mound of stone. No bearing trees or other accessories.

Reconstruct this cor. monument as follows:

remove the mound of stone, and in center of its position reset the cor. stone, 18 ins. in the ground, and alongside same set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, for cor. of secs. 5, 6, 31 and 32, marked on brass cap



T15S

1930

No bearing trees available.  
Raise a mound of stone, 3 ft. base, 1 1/2 ft. high, W. of cor.

Land, mountainous, broken and rolling.

Soil, gravelly and rocky, 2nd and 3rd rate.

Timber, paloverde and mesquite.

Undergrowth, greasewood, catclaw and cacti.

Survey of Part (Completion) of North Boundary of Township 15 South, Range 16 East

- Chains. From original cor. of secs. 4, 5, 32 and 33, hereinbefore described,  
East, on random line, for distance only, setting temp. cors. at 40 ch. intervals.
- 320.00 Set temp. cor. of Ts. 14 & 15 S., R. 16 E.
- 320.02 Intersect the East bdy. of the Tp. surveyed North, 44.06 chs. from original  $\frac{1}{4}$  sec. cor. of secs. 1 and 6 as herein-after described, at which point of intersection establish the cor. of Ts. 14 & 15 S., R. 16 E. as herein-after described.
- From said Tp. cor.,  
West, on true line, on N. bdy. of sec. 1.  
Over mountainous land, thru scattering timber and under-growth.
- 16.00 Desc. 170 ft. over SW. slope.
- 16.00 Draw, course S. Asc. 230 ft. over SE. slope.
- 24.20 Rocky point, on spur, sloping S. 20° W.  
Desc. 105 ft. over W. slope.
- 27.90 Drain, course SW. Asc. 40 ft. over SE. slope.
- 30.00 Small spur, slopes SW. Desc. 190 ft. over NW. slope to
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, deposit a stone marked with a cross (X) at base of post, and raise a mound of stone around post, for S.  $\frac{1}{4}$  sec. cor. of sec. 36, T. 14 S., R. 16 E., marked on brass cap

$\frac{1}{4}$  S 36

1930

No bearing trees available.

- 40.99 Desc. 25 ft. over W. slope to  
(Midpoint of N. bdy. of sec. 1) Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the ground to bedrock, deposit a stone marked with a cross (X) at base of post, and raise a mound of stone around post, for N.  $\frac{1}{4}$  sec. cor. of sec. 1, marked on brass cap

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

1930

No bearing trees available.

- Desc. 35 ft. over W. slope.
- 42.00 Draw, 30 lks. wide, course S. Asc. 220 ft. over SE. slope.
- 65.50 Flat-topped spur, slopes SW. Desc. 135 ft. over NW. slope.
- 71.50 Draw, course SW. Asc. 30 ft. over SE. slope.
- 75.20 Small spur, slopes S. Thence along S. slope, rolling.
- 77.20 Drain, course S. Asc. 40 ft. over S. slope to
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., over a cross (X) marked on surface rock, and raise a mound of stone 5 ft. base, 3 ft. high, around post, for cor. of secs. 35 and 36 only, marked on brass cap

T14S	R16E
S 35	S 36
S 1	

T15S

1930

No bearing trees available.

- Asc. 30 ft. over S. slope to
- 81.98 Intersect random subdivision line bet. secs. 1 and 2 surveyed N. 0° 1' W. as hereinafter described.  
At this point of intersection,  
set an iron post, 3 ft. long, 2 ins. diam., 34 ins. in the crevice of a granite ledge, supported by a rock fill, for cor. of secs. 1 and 2 only, marked on brass cap

Survey of  
Part (Completion) of North Boundary of Township 15 South, Range 16 E.

Chains

T 14 S

S 35

S 2	S 1
T 15 S	R 16 E

1930

No bearing trees available.  
Raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.  
Land, mountainous and rolling,  
Soil, rocky, 3rd rate.  
Timber, mountain mahogany.  
Undergrowth, cacti.

From cor. of secs. 1 and 2,  
West, on true line, on N. bdy. of sec. 2.  
Over rolling and mountainous land, thru scattering  
timber and undergrowth.

Asc. 40 ft. over S. slope.

13.00 Desc. 70 ft. over SW. slope.

19.22 Drain, course S. 20° W. Asc. 65 ft. over SE. slope.

29.40 Spur, slopes SW. Desc. 60 ft. over W. slope.

32.80 Drain, course SW. Asc. 35 ft. over S. slope to

38.02 (40 chs. W. from cor. of secs. 35 & 36) Set an iron post,  
3 ft. long, 1 in. diam., 4 ins. in the ground to bedrock,  
deposit a stone marked with a cross (X) at base of  
post, and raise a mound of stone around post, for S.  
 $\frac{1}{4}$  sec. cor. of sec. 35, marked on brass cap

 $\frac{1}{4}$  S 35

1930

No bearing trees available.

Asc. 10 ft. over S. slope to

40.00 Set an iron post, 3 ft. long, 1 in. diam., 3 ins. in the  
ground to bedrock, deposit a stone marked with a cross  
(X) at base of post, and raise a mound of stone around  
post, for N.  $\frac{1}{4}$  sec. cor. of sec. 2, marked on brass cap

 $\frac{1}{4}$  S 2

1930

No bearing trees available.

Asc. 60 ft. over S. slope.

45.00 Ridge, bearing NE. and W. Thence along top of ridge.

50.82 Low peak. Leave top of ridge, bears NW. and E.

Desc. 740 ft. over SW. slope.

56.40 Drain, course S. Desc. over S. slope.

60.00 Spur, slopes SW. Desc. 178 ft. over W. slope.

72.00 Drain, course NW. Desc. 107 ft. over NW. slope to

78.02 (80 chs. W. from cor. of secs. 35 & 36) Set an iron post,  
3 ft. long, 2 ins. diam., 12 ins. in the ground to bedrock,  
deposit a stone marked with a cross (X) at base of  
post, and raise a mound of stone around post, for cor.  
of secs. 34 and 35 only, marked on brass cap

T 14 S R 16 E

S 34 S 35

S 2

T 15 S

1930

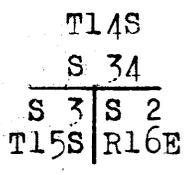
No bearing trees available.

Desc. slightly over NW. slope.

78.12 Drain, course SW. Asc. 8 ft. over SE. slope to

Survey of  
Part (Completion) of North Bdy. of Township 15 South, Range 16 East

Chains  
80.00 Set an iron post, 3 ft. long, 2 ins. diam., over a cross (X) marked on surface rock, and raise a mound of stone, 5 ft. base, 3 ft. high, around post, for cor. of secs. 2 and 3 only, marked on brass cap



1930

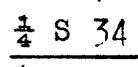
No bearing trees available.

Land, rolling, broken and mountainous.  
Soil, rocky, granite formation, 3rd rate.  
Timber, oak.  
Undergrowth, cacti.

-----  
From cor. of secs. 2 and 3,  
West, on true line, on N. bdy. of sec. 3.  
Over rolling and mountainous land, thru scattering  
timber and undergrowth.

2.10 Desc. 46 ft. over NW. slope.  
11.00 Draw, 30 lks. wide, course S. Asc. 30 ft. over SE. slope.  
30.50 Desc. 265 ft. over SW. slope.  
38.02 Desc. 182 ft. over NW. slope to

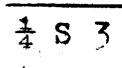
(40 chs. W. from cor. of secs. 34 and 35) Set an iron post,  
3 ft. long, 1 in. diam., 10 ins. in ground to bedrock,  
deposit a stone marked with a cross (X) at base of  
post, and raise a mound of stone around post, for  $\frac{1}{4}$  sec.  
cor. of sec. 34 only (S.  $\frac{1}{4}$  cor.), marked on brass cap



1930

No bearing trees available.

Desc. 5 ft. over NW. slope to  
40.00 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the  
ground to bedrock, deposit a stone marked with a cross  
(X) at base of post, and raise a mound of stone around  
post, for N.  $\frac{1}{4}$  sec. cor. of sec. 3, marked on brass cap

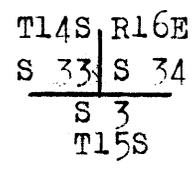


1930

No bearing trees available.

Desc. 230 ft. over NW. slope.  
55.00 Rocky gulch, course SW., containing pools of water.  
Asc. 290 ft. over SE. slope to

78.02 (80 chs. W. from cor. of secs. 34 & 35) Set an iron post,  
3 ft. long, 2 ins. diam., over a cross (X) marked on  
surface rock, and raise a mound of stone, 5 ft. base,  
3 ft. high, around post, for cor. of secs. 33 and 34 only;  
marked on brass cap



1930

No bearing trees available.

80.00 Asc. 20 ft. over SE. slope to  
Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the

Survey of  
Part (Completion) of North Bdy. of Township 15 South, Range 16 East

Chains

ground to bedrock, deposit a stone marked with a cross (X) at base of post, and raise a mound of stone around post, for cor. of secs. 3 and 4 only, marked on brass cap

T14S  
S 33  
S 4 | S 3  
T15S | R16E

1930

No bearing trees available.

Land, rolling and mountainous.  
Soil, rocky, 3rd and 4th rate.  
Timber, oak and cedar.  
Undergrowth, cacti.

From cor. of secs. 3 and 4,  
West, on true line, on N. bdy. of sec. 4.  
Over mountainous land, thru scattering undergrowth.  
Asc. 60 ft. over SE, slope.

15.50

Desc. 45 ft. over SW. slope.

19.25

Drain, course S. Asc. 60 ft. over SE. slope.

22.30

Ridge, bears NE. and S. 70° W. Desc. 160 ft. over NW. slope.

35.00

Drain, 15 lks. wide, course NW. Desc. 26 ft. over NW. slope to

38.02

(40 chs. W. from cor. of secs. 33 & 34) Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to bedrock, deposit a stone marked with a cross (X) at base of post, and raise a mound of stone around post, for S. 1/4 sec. cor. of sec. 33, marked on brass cap

1/4 S 33

1930

No bearing trees available.

Desc. 16 ft. over NW. slope to

40.00

Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground to bedrock, deposit a stone marked with a cross (X) at base of post, and raise a mound of stone around post, for N. 1/4 sec. cor. of sec. 4, marked on brass cap

1/4 S 4

1930

No bearing trees available.

Desc. 100 ft. over NW. slope to

50.50

Drain, course NW. Desc. 300 ft. over NW. slope to

73.00

Small spur, slopes NW. Desc. 40 ft. over W. slope to

78.04

(Intersect the original cor. of secs. 4, 5, 32 and 33, hereinbefore described.

Land, mountainous.  
Soil, rocky, 3rd and 4th rate.  
Timber, none.  
Undergrowth, greasewood and cacti.

Survey of  
Part (Completion) of East Bdy. of Township 15 South, Range 16 East

Chains From reestablished  $\frac{1}{4}$  sec. cor. of secs. 1 and 6, hereinbefore described,  
 North, on true line, on E. bdy. of sec. 1 ( $N. \frac{1}{2}$ )  
 Over mountainous land, thru scattering timber and undergrowth.  
 Asc. 340 ft. over SE. slope.  
 20.90 Gulch, course SE. Asc. 250 ft. over S. slope.  
 28.50 Spur, slopes E. Asc. 35 ft. over E. slope.  
 32.50 Head of draw, course SE. Asc. 380 ft. over SW. slope to  
 44.06 intersect random N. bdy. of the Tp. at 2 lks. E. of temp.  
 Tp. cor. set at 320 chs. E. from the original cor. of  
 secs. 4, 5, 32 and 33, Ts. 14 & 15 S., R. 16 E.  
 At this point of intersection,  
 set an iron post, 3 ft. long, 3 ins. diam., 16 ins. in the  
 ground to bedrock, deposit a stone marked with a cross  
 (X) at base of post, and raise a mound of stone around  
 post, for cor. of Ts. 14 and 15 S., R. 16 E., marked on  
 brass cap

T14S
R16E
S 36
S 1
T15S

1930

No bearing trees available.

Land, mountainous.  
 Soil, rocky, 3rd rate.  
 Timber, paloverde and mountain mahogany.  
 Undergrowth, greasewood and cacti.

Resurvey of Part of the Subdivision Lines of Township 15 South, Range 16 East

Chains	The subdivision lines of T.15 S., R.16 E., with the exception of the line bet. secs. 1 and 2, line bet. secs. 2 and 3, line bet. secs. 3 and 4, and line bet. secs. 4 and 5, were surveyed in 1893 by J.H. Martineau, U.S.D.S. No retracement or resurvey of any part of the subdivision lines of this Tp. is of record.
	The following notes describe a dependent resurvey of the lines: bet. secs. 1 & 12, bet. secs. 2 & 11, bet. secs. 3 & 10, bet. secs. 4 & 9, bet. secs. 5 & 8, and bet. secs. 5 & 6.
	----- Retracement for Resurvey. -----
	From original cor. of secs. 1, 6, 7 and 12, on the E. bdy. of the Tp.,
40.13	West, on random line, bet. secs. 1 and 12 (E. $\frac{1}{2}$ ) Fall 70 lks. S. of original $\frac{1}{4}$ sec. cor. True course and dist. of E. $\frac{1}{2}$ of line bet. secs. 1 and 12 are therefore, N. 89° 00' W., 40.14 chs.
41.71	Thence West, on random line, bet. secs. 1 and 12 (W. $\frac{1}{2}$ ) Fall 52 lks. S. of original cor. of secs. 1, 2, 11 and 12. True course and dist. of W. $\frac{1}{2}$ of line bet. secs. 1 and 12 are therefore, N. 89° 17' W., 41.71 chs.
39.05	----- West, on random line, on N. bdy. of sec. 11 (E. $\frac{1}{2}$ ) Fall 7 lks. N. of original $\frac{1}{4}$ sec. cor. True course and dist. of E. $\frac{1}{2}$ of N. bdy. of sec. 11 are therefore, S. 89° 54' W., 39.05 chs.
40.67	Thence West, on random line, on N. bdy. of sec. 11 (W. $\frac{1}{2}$ ) Fall 8 lks. N. of original cor. of secs. 2, 3, 10 and 11. True course and dist. of W. $\frac{1}{2}$ of N. bdy. of sec. 11 are therefore, S. 89° 53' W., 40.67 chs.
40.13	----- West, on random line, bet. secs. 3 and 10. No trace of original $\frac{1}{4}$ sec. cor. can be found. Set temp. $\frac{1}{4}$ sec. cor. and continue line and measurement.
80.28	Fall 7 lks. N. of original cor. of secs. 3, 4, 9 and 10. True course and dist. of line bet. secs. 3 and 10 are therefore, S. 89° 57' W., 80.28 chs.
41.68	----- West, on random line, on N. bdy. of sec. 9 (E. $\frac{1}{2}$ ) Fall 70 lks. S. of original $\frac{1}{4}$ sec. cor. True course and dist. of E. $\frac{1}{2}$ of N. bdy. of sec. 9 are therefore, N. 89° 2' W., 41.69 chs.
39.43	Thence West, on random line, on N. bdy. of sec. 9 (W. $\frac{1}{2}$ ) Fall 14 lks. S. of original cor. of secs. 4, 5, 8 and 9. True course and dist. of W. $\frac{1}{2}$ of N. bdy. of sec. 9 are therefore, N. 89° 48' W., 39.43 chs.
156.67	----- West, on random line, bet. secs. 5 and 8, and bet. secs. 6 and 7, searching diligently at record intervals, for the original cor. monuments. Fail to find any trace of an original cor. until at Fall 200 lks. S. of original cor. of secs. 1, 6, 7 and 12, on the W. bdy. of the Tp.
78.11	Thence S. 89° 16' E., on trial latitudinal subdivision line
117.39	(Proportional dist.) Set temp. cor. of secs. 5, 6, 7 & 8 (A).
156.68	(Proportional dist.) Set temp. $\frac{1}{4}$ sec. cor. of secs. 5 & 8. Intersect original cor. of secs. 4, 5, 8 & 9.
161.28	From original $\frac{1}{4}$ sec. cor. of secs. 5 & 6, South, on random line, bet. secs. 5 & 6 (S. $\frac{1}{2}$ ), bet. secs. 7 & 8, and bet. secs. 17 & 18 (N. $\frac{1}{2}$ ), searching diligently at record intervals for the original cor. monuments. Fail to find any trace of an original cor. until at Fall 200 lks. W. of original $\frac{1}{4}$ sec. cor. of secs. 17 & 18.

Resurvey of Part of the Subdivision lines of Township 15 South, Range 16 East

Chains (Retracement for Resurvey, continued.)

120.97 Thence, N.0°43'W., on trial meridional subdivision line (Proportional dist.) Set temp. cor. of secs. 5, 6, 7 & 8 (B) from which the temp. cor. (A) of same secs. set on the trial latitudinal sub. line at proportional dist. bears S. 54 1/4° W., 308 lks. dist., or 250 lks. W. and 180 lks. S.

The point for reestablishment of the missing cor. of secs. 5, 6, 7 & 8, to maintain record proportion in latitudes and departures for the subdivision lines controlled by said cor., is therefore at 250 lks. west from temp. cor. (B) and 180 lks. north from temp. cor. (A)

The resulting true courses and dists. of the subdivision lines controlled by this cor. reestablishment are therefore:

- Line bet. secs. 5 and 8 = N. 87° 57' W., 78.62 chs.
- Line bet. secs. 6 and 7 = N. 89° 24' E., 78.10 "
- S. 1/2 of line bet. secs. 5 and 6 = S. 2° 50' W., 40.37 "

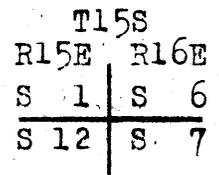
The course and dist. of a direct line from the original 1/4 sec. cor. of secs. 17 & 18 to this reestablished cor. point are, N. 1° 54' W., 121.03 chs., this, however, is subject to future division into two units (N. 1/2 of line bet. secs. 17 & 18, and line bet. secs. 7 & 8) by the reestablishment of the cor. of secs. 7, 8, 17 & 18 by double proportion.

39.34 From original 1/4 sec. cor. of secs. 5 & 6, North, on random line, bet. secs. 5 and 6 (N. 1/2) Fall 30 lks. W. of original cor. of secs. 5, 6, 31 & 32, on the N. bdy. of the Tp., True course and dist. of N. 1/2 of line bet. secs. 5 and 6 are therefore, S. 0° 26' W., 39.34 chs.

The original cor. of secs. 1, 6, 7 & 12 on the W. bdy. of the Tp., and the original 1/4 sec. cor. of secs. 17 & 18, T. 15 S., R. 16 E., being remote control cors. for the resurvey of part of the subdivision lines of this Tp., reconstruct said cors. as follows:

Cor. of secs. 1, 6, 7, & 12, Ts. 15 S., Rs. 15 & 16 E.

The original cor. of secs. 1, 6, 7 & 12 is a sandstone 12x8x5 ins. above ground, firmly set, marked with 1 notch on N. face, and 5 notches on S. face. No bearing trees or other accessories. alongside the stone, set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for cor. of secs. 1, 6, 7 & 12, marked on brass cap



1930

No bearing trees available. Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

1/4 sec. cor. of secs. 17 & 18, T. 15 S., R. 16 E.

X The original 1/4 sec. cor. of secs. 17 & 18 is a sandstone 12x10x7 ins. above ground, firmly set, and marked 1/4 on W. face. No bearing trees or other accessories. alongside the stone, set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for 1/4 sec. cor. of secs. 17 and 18, marked on brass cap

Resurvey of  
Part of the Subdivision Lines of Township 15 South, Range 16 East

Chains

$\frac{1}{4}$   
S 18 | S 17

1930

No bearing trees available.

Raise a mound of stone, 3 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

-----  
Resurvey.  
-----

From original cor. of secs. 1, 6, 7 & 12, on the E. bdy. of the Td., reconstructed as hereinbefore described, N.  $89^{\circ}00'W.$ , on true line, bet. secs. 1 and 12 ( $E.\frac{1}{2}$ ) Over rolling and mountainous land, thru scattering timber and undergrowth.

Asc. 25 ft. over SE. slope.

- 3.14 Spur, slopes S.  $10^{\circ}W.$  Desc. 150 ft. over W. slope.  
13.64 Wash, 10 lks. wide, course S.  $20^{\circ}W.$  Asc. 130 ft. over SE. slope.  
22.64 Spur, slopes S.  $10^{\circ}W.$  Desc. 90 ft. over SW. slope.  
36.60 Drain, course S. Asc. 15 ft. over SE. slope.  
38.60 Low spur, slopes S. Desc. slightly over SW. slope to  
40.14 Intersect the original  $\frac{1}{4}$  sec. cor. of secs. 1 and 12, which is a granite stone  $14 \times 10 \times 6$  ins., unmarked, and firmly set in a mound of stone. No bearing trees or other accessories.

Reconstruct this cor. monument as follows:

remove the mound of stone, and in center of its position reset old cor. stone with a cross (X) marked on same, on surface rock, and alongside the stone set an iron post, 3 ft. long, 1 in. diam., on surface rock, and rebuild mound of stone 4 ft. base,  $2\frac{1}{2}$  ft. high, around post, for  $\frac{1}{4}$  sec. cor. of secs. 1 and 12, marked on brass cap

S 1

$\frac{1}{4}$  -----  
S 12

1930

No bearing trees available.

Thence

N.  $89^{\circ}00'W.$ , on true line, bet. secs. 1 and 12 ( $W.\frac{1}{2}$ )

Over rolling and broken land, thru scattering timber and undergrowth:

Desc. 18 ft. over SW. slope.

- 5.21 Wash, 50 lks. wide, course S.  $20^{\circ}E.$  Asc. 138 ft. over E. slope.  
12.71 Spur, slopes SE. Asc. 85 ft. over SE. slope.  
20.70 Divide, bears N. and S. Desc. 32 ft. over W. slope.  
29.50 Drain, 20 lks. wide, course S. Asc. 45 ft. over E. slope.  
33.57 Spur, slopes S. Desc. 53 ft. over SW. slope.  
39.97 Gulch, 30 lks. wide, course S.  $30^{\circ}E.$  Asc. 30 ft. over SE. slope to

- 41.71 Intersect the original cor. of secs. 1, 2, 11 and 12, which is a granite stone  $24 \times 8 \times 6$  ins., marked with 1 notch on E. face, 5 notches on S. face, and firmly set in a mound of stone. No bearing trees or other accessories.

Reconstruct this cor. monument as follows:

remove the mound of stone, and in center of its position, reset the cor. stone 2 ins. in the ground to bedrock; and alongside same set an iron post, 3 ft. long, 2 ins. diam., 2 ins. in the ground, and rebuild mound of stone 5 ft. base,  $2\frac{1}{2}$  ft. high, around post, for cor. of secs. 1, 2, 11 and 12, marked on brass cap

Resurvey of  
Part of the Subdivision Lines of Township 15 South, Range 16 East

Chains

T15S, R16E	
S 2	S 1
S 11	S 12

1930

No bearing trees available.

Land, rolling, broken and mountainous.  
Soil, gravelly and rocky, 3rd rate.  
Timber, paloverde and mesquite.  
Undergrowth, greasewood, catclaw and cacti.

S. 89° 54' W., on true line, on S. bdy. of sec. 2.  
Over rolling and broken land, thru scattering timber  
and undergrowth.

Asc. 30 ft. over SE. slope.

- 2.55 Spur, slopes S. 30° W. Desc. 50 ft. over SW. slope.
- 8.30 Gully, course S. Asc. 30 ft. over SE. slope.
- 12.05 Spur, slopes S. 20° W. Desc. 250 ft. over SW. slope.
- 35.05 Draw, 30 lks. wide, course S. 10° E. Asc. 80 ft. over E.  
slope to

39.05 intersect the original  $\frac{1}{4}$  sec. cor. of secs. 2 and 11, which  
is a limestone 15x12x6 ins., marked  $\frac{1}{4}$  on N. face, and  
firmly set in a mound of stone. No bearing trees or  
other accessories.

Reconstruct this cor. monument and alter its reference  
as follows:

remove the mound of stone and in center of its position  
reset the cor. stone with marking to the S., 6 ins. in  
the ground to bedrock, and alongside same set an iron  
post, 3 ft. long, 1 in. diam., 6 ins. in the ground, and  
raise a mound of stone 4 ft. base, 2  $\frac{1}{2}$  ft. high, around  
post, for N.  $\frac{1}{4}$  sec. cor. of sec. 11, marked on brass cap.

$\frac{1}{4}$  S 11

1930

No bearing trees available.

Thence  
S. 89° 53' W., on true line, continuing measurement of the  
S. bdy. of sec. 2.

Asc. 14 ft. over E. slope to

- 39.86 Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the  
ground to bedrock, deposit a stone marked with a cross  
(X) at base of post, and raise a mound of stone around  
post, for reestablished S.  $\frac{1}{4}$  sec. cor. of sec. 2, marked  
on brass cap

$\frac{1}{4}$  S 2

1930

No bearing trees available.

Asc. 25 ft. over E. slope.

- 42.22 Spur, slopes S. Desc. 60 ft. over SW. slope.
- 53.02 Wash, 15 lks. wide, course S. Asc. 80 ft. over NE. slope.
- 59.72 NE. point of hill, bearing SW., and sloping NE. to low  
divide. Desc. 180 ft. over NW. slope to

79.72 intersect the original cor. of secs. 2, 3, 10 and 11, which  
is a granite stone 14x10x8 ins. above ground, firmly set  
and marked with 2 notches on E. face, and 5 notches  
on S. face. No bearing trees or other accessories.

Reconstruct this cor. monument as follows;

alongside the stone, set an iron post, 3 ft. long, 2 ins.  
diam., 12 ins. in the ground to bedrock, and raise a  
mound of stone around post, for cor. of secs. 2, 3, 10  
and 11, marked on brass cap

Resurvey of  
part of the Subdivision Lines of Township 15 South, Range 16 East

Chains

T15S R16E	
S 3	S 2
S 10	S 11

1930

No bearing trees available.

Land, rolling and broken.  
Soil, rocky, 3rd rate.  
Timber, paloverde and mesquite.  
Undergrowth, greasewood, catclaw and cacti.

S.89°57'W., on true line, bet. secs. 3 and 10.  
Over broken and rolling land, thru scattering timber  
and undergrowth.

- 5.28 Desc. 40 ft. over NW. slope.  
Wash, 20 lks. wide, course S. 60°W. Asc. gradually over SW. slope
- 11.78 Wash, 15 lks. wide, course SW. Thence over S. slope.
- 15.78 Wash, 10 lks. wide, course S. Asc. 20 ft. over SE. slope.
- 25.28 Spur, slopes SW. Desc. 40 ft. over W. slope.
- 30.28 Gully, course S. Asc. 60 ft. over E. slope.
- 35.30 Spur, slopes S. 20°W. Desc. 65 ft. over W. slope to
- 40.14 Set an iron post, 3 ft. long, 1 in. diam., 3 ins. in the ground to bedrock, deposit a stone marked with a cross (X) at base of post, and raise a mound of stone around post, for reestablished  $\frac{1}{4}$  sec. cor. of secs. 3 and 10, marked on brass cap

S 3
$\frac{1}{4}$
S 10

1930

No bearing trees available.

- 42.28 Desc. 45 ft. over W. slope.
- 47.03 Gulch, course S. Asc. 70 ft. over E. slope.
- 55.28 Spur, slopes S. 25°W. Desc. 50 ft. over W. slope.
- 63.30 Wash, 10 lks. wide, course S. Asc. 35 ft. over SE. slope.
- 78.80 Thence over S. slope ascending.
- 80.28 Drain, course S. Asc. 5 ft. over SE. slope to  
Intersect the original cor. of secs. 3, 4, 9 and 10, which is a granite stone 24x10x8 ins., marked with 3 notches on E. face; 5 notches on S. face, and firmly set in a mound of stone. No bearing trees or other accessories.  
Reconstruct this cor. monument as follows:  
remove the mound of stone, and in center of its position reset the cor. stone 16 ins. in the ground, and alongside same set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for cor. of secs. 3, 4, 9 and 10, marked on brass cap

T15S R16E	
S 4	S 3
S 9	S 10

1930

No bearing trees available.  
Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

Land, rolling and broken.  
Soil, rocky, 3rd rate.  
Timber, paloverde and mesquite.  
Undergrowth, greasewood, catclaw and cacti.

Resurvey of Part of the Subdivision Lines of Township 15 South, Range 16 East

Chains  
 N. 89° 2' W., on true line, on S. bdy. of sec. 4.  
 Over broken and rolling land, thru scattering timber  
 and undergrowth.  
 Asc. 10 ft. over SE. slope.  
 2.69 Low spur, slopes S. 20° W. Desc. 120 ft. over SW. slope.  
 17.60 Drain, course S. Asc. 55 ft. over SE. slope.  
 27.90 Spur, slopes SW. Desc. 85 ft. over NW. slope.  
 36.95 Drain, course S. 25° W. Asc. 15 ft. over SE. slope.  
 39.83 Spur, slopes SW. Desc. 25 ft. over NW. slope to  
 40.01 (40 chs. W. departure) Set an iron post, 3 ft. long, 1 in.  
 diam., 10 ins. in the ground to bedrock, and raise a  
 mound of stone around post, for reestablished S.  $\frac{1}{4}$   
 sec. cor. of sec. 4, marked on brass cap

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

1930

No bearing trees available.  
 Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.  
 Desc. 16 ft. over NW. slope to

41.69 Intersect the original  $\frac{1}{4}$  sec. cor. of secs. 4 and 9, which  
 is a granite stone 24x10x8 ins., marked  $\frac{1}{4}$  on N. face,  
 and firmly set in a mound of stone. No bearing trees  
 or other accessories.  
 Reconstruct this cor. monument and alter its reference  
 as follows:  
 remove the mound of stone, and in center of its  
 position reset the cor. stone 12 ins. in the ground to  
 bedrock, with marking to the S., and alongside same  
 set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the  
 ground, and rebuild mound of stone around post, for  
 N.  $\frac{1}{4}$  sec. cor. of sec. 9, marked on brass cap

$\frac{1}{4}$  S 9

1930

No bearing trees available.  
 Thence 51 ft. over SE. slope.  
 N. 89° 48' W., on true line, continuing measurement of the  
 N. bdy. of sec. 9.

Desc. 51 ft. over NW. slope.  
 48.62 Wash, 10 lks. wide, course SW. Asc. 20 ft. over SE. slope.  
 54.92 Spur, slopes S. 20° W. Desc. 16 ft. over W. slope.  
 57.02 Cor. of wire fence bears N. 27 lks. dist., from which  
 fences extend W. and S.  
 59.62 Wash, 100 lks. wide, course SW. Asc. 15 ft.  
 61.73 Desc. 15 ft.  
 62.82 Drain, course S. Asc. 23 ft. over E. slope.  
 64.70 Spur, slopes S. Desc. 60 ft. over W. slope.  
 68.62 Wash, 200 lks. wide, course SW. from N.  
 Thence across nearly level bottom land.  
 73.12 Wire fence, bears N. 75° E. and S. 75° W.  
 75.42 Wire fence, bears NW. and SE.  
 Leave bottom land. Asc. 20 ft. over SE. slope  
 78.60 Short spur, slopes S. Desc. 12 ft. over W. slope.  
 80.27 Drain, course SE. Asc. 16 ft. over SE. slope to  
 81.12 Intersect the original cor. of secs. 4, 5, 8 and 9, which  
 is a granite stone 12x10x8 ins. above ground, firmly  
 set, marked with 4 notches on E. face, and 5 notches  
 on S. face. No bearing trees or other accessories.  
 Reconstruct this cor. monument as follows:  
 alongside the stone, set an iron post, 3 ft. long,  
 2 ins. diam., 30 ins. in the ground, for cor. of secs.  
 4, 5, 8 and 9, marked on brass cap

T15S	R16E
S 5	S 4
S 8	S 9

1930

Resurvey of  
Part of the Subdivision Lines of Township 15 South, Range 16 East

Chains

No bearing trees available.

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

Land, rolling, broken and nearly level.

Soil, gravelly and rocky, 3rd rate.

Timber, paloverde and mesquite.

Undergrowth, greasewood, catclaw and cacti.

N. 87° 57' W., on true line, bet. secs. 5 and 8.

Over broken and rolling land, thru scattering timber and undergrowth.

Asc. 28 ft. over SE. slope.

2.12 Spur, slopes SW. Desc. 70 ft. over W. slope.

8.62 Wash, 40 lks. wide, course SW. Asc. 50 ft. over SE. slope.

12.60 Spur, slopes SW. Desc. 16 ft. over W. slope.

18.10 Wash, 10 lks. wide, course SW. Asc. 25 ft. over SE. slope.

25.50 Spur, slopes SW. Desc. 15 ft. over W. slope.

29.60 Wash, 40 lks. wide, course S. Asc. 5 ft. over E. slope.

31.55 Low short spur, slopes S. Desc. 5 ft. over W. slope.

32.80 Drain, course S. Desc. slightly over S. slope to

35.37 Bend in wash, 20 lks. wide, course S. 70° W. from SE.

Desc. slightly over SW. slope to

39.12 Wash, 15 lks. wide, course S. Asc. slightly over E. slope.

39.31 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for reestablished  $\frac{1}{4}$  sec. cor. of secs. 5 and 8, marked on brass cap

S 5
—
S 8

1930

No bearing trees available.

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

Asc. slightly over E. slope.

40.22 Low spur, slopes S. Desc. 16 ft. over W. slope.

41.60 Gully, course S. Asc. 20 ft. over SE. slope.

43.40 Spur, slopes SW. Desc. 60 ft. over W. slope.

57.62 Wash, 100 lks. wide, course SW. Thence over nearly level bottom land, draining SW.

62.37 Road, bears N. and S.

69.30 Drain, course SE.

72.20 Drain, course SW. Enter rolling and broken land.

Asc. 10 ft. over SE. slope.

73.72 Small spur, slopes SW. Desc. 10 ft. over W. slope.

75.30 Drain, 10 lks. wide, course S. Asc. 8 ft. over SE. slope to

78.62 Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for reestablished cor. of secs. 5, 6, 7 and 8, marked on brass cap

T15S R16E			
S	6	S	5
—	—	—	—
S	7	S	8

1930

No bearing trees available.

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

Land, broken, rolling and nearly level.

Soil, gravelly, 3rd and 2nd rate.

Timber, paloverde and mesquite.

Undergrowth, greasewood, catclaw and cacti.

Resurvey of Part of the Subdivision Lines of Township 15 South, Range 16 East

Chains From original cor. of secs. 5, 6, 31 and 32, on the N. bdy. of the Tpl, reconstructed as hereinbefore described, S. 0° 26' W., on true line, bet. secs. 5 and 6. (N.  $\frac{1}{2}$ )  
 Over rolling and broken land, thru scattering timber, and undergrowth. Desc. 17 ft. over SE. slope.  
 4.09 Wash, 50 lks. wide, course SW. Asc. 23 ft. over NW. slope.  
 9.34 Low spur, slopes SW. Desc. 12 ft. over SE. slope.  
 10.94 Drain, course SW. Asc. 10 ft. over NW. slope.  
 15.50 Spur, slopes SW. Desc. 20 ft. to  
 20.30 Spur, slopes SW. Desc. 45 ft. over S. slope.  
 29.45 Wash, 10 lks. wide, course S. 75° W. Asc. 10 ft. over NW. slope.  
 31.00 Low spur, slopes SW. Desc. 20 ft.  
 34.45 Drain, 5 lks. wide, course SW. Asc. 13 ft. over NW. slope.  
 36.00 Desc. 15 ft. over SW. slope. to  
 39.34 Intersect the original  $\frac{1}{4}$  sec. cor. of secs. 5 and 6, which is a granite stone 10x9x8 ins. above ground, firmly set, marked  $\frac{1}{4}$  on W. face. No bearing trees or other accessories.  
 Reconstruct this cor. monument as follows:  
 alongside the cor. stone, set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for  $\frac{1}{4}$  sec. cor. of secs. 5 and 6, marked on brass cap



No bearing trees available.  
 Raise a mound of stone, 3 ft. base, 1 1/2 ft. high, W. of cor. Thence  
 S. 2° 50' W., on true line, bet. secs. 5 and 6 (S.  $\frac{1}{2}$ )  
 Over rolling and broken land, thru scattering timber, and undergrowth.  
 Desc. 11 ft. over SW. slope.  
 1.37 Wash, 10 lks. wide, course SW. Asc. 10 ft. over NW. slope.  
 5.00 Spur, slopes SW. Desc. 30 ft. over SE. slope.  
 8.00 Wash, 10 lks. wide, course S. 70° W. Asc. 32 ft. over NW. slope.  
 12.80 Spur, slopes SW. Desc. 12 ft. over SE. slope.  
 14.50 Drain, 5 lks. wide, course SW. Asc. 10 ft. over NW. slope.  
 17.50 Desc. 50 ft. over rolling SW. slope.  
 34.37 Wash, 10 lks. wide, course W. Asc. 25 ft. over N. slope.  
 36.85 Small spur, slopes W. Desc. 11 ft. over S. slope to  
 40.37 Intersect the reestablished cor. of secs. 5, 6, 7 and 8, hereinbefore described.  
 Land, rolling and broken.  
 Soil, gravelly and rocky, 2nd and 3rd rate.  
 Timber, paloverde and mesquite.  
 Undergrowth, greasewood, catclaw and cacti.

Survey of  
Part (Completion) of the Subdivision Lines- Township 15 S., Range 16 E.

Chains	From original cor. of secs. 1, 2, 11 and 12, N. 0° 1' W., on random line, bet. secs. 1 and 2, for distance only.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
82.77	Intersect the N. bdy. of the Tp. at 81.98 chs. West from the cor. of Ts. 14 & 15 S., R. 16 E. Establish cor. of secs. 1 and 2 at this point of inter- section as hereinbefore described. Thence S. 0° 1' E., on true line, bet. secs. 1 and 2. Over mountainous land, thru scattering timber and under- growth. Desc. 400 ft. over S. slope.
20.77	Wash, 20 lks. wide, course S. 20° W. Desc. 75 ft. over SW. slope to
25.77	Same wash, course SE. Desc. 60 ft. over SE. slope to
33.27	Same wash, course S. 30° W. Asc. 10 ft. over NW. slope
34.75	Spur, slopes SW; Desc. 154 ft. over S. slope to
42.77	Set an iron post, 3 ft. long, 1 in. diam., over a cross (X) marked on surface rock, and raise a mound of stone 5 ft. base, 3 ft. high, around post, for $\frac{1}{4}$ sec. cor. of secs. 1 and 2, marked on brass cap.

$\frac{1}{4}$

S 2 | S 1

1930

No bearing trees available.

45.25	Desc. 42 ft. over S. slope.
47.40	Drain, 10 lks. wide, course SW. Asc. 15 ft. over NW. slope.
61.75	Desc. 148 ft. over SW. slope.
62.45	Drain, 5 lks. wide, course W. Asc. 15 ft. over NW. slope.
76.00	Desc. 240 ft. over SW. slope.
82.77	Desc. 95 ft. over SE. slope to.
82.77	Intersect the original cor. of secs. 1, 2, 11 and 12, reconstructed as hereinbefore described.

Land, mountainous.  
Soil, rocky, 3rd and 4th rate.  
Timber, paloverde and mesquite.  
Undergrowth, greasewood, catclaw and cacti.

Chains	From original cor. of secs. 2, 3, 10 and 11, N. 0° 1' W., on random line, bet. secs. 2 and 3.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
83.00	Fall 22 lks. E. of the cor. of secs. 2 and 3, on the N. bdy. of the Tp., hereinbefore described. Thence, S. 0° 10' E., on true line, bet. secs. 2 and 3. Over mountainous land, thru scattering timber and under- growth. Desc. 48 ft. over S. slope.
1.90	Drain, 15 lks. wide, course SW. Asc. 65 ft. over NW. slope
12.00	Spur, slopes SW. Desc. 265 ft. over SE. slope.
27.25	Draw, course SW. Asc. 60 ft. over NW. slope.
31.87	Spur, slopes SW. Desc. 40 ft. to
35.70	Sharp rocky spur, slopes SW. Rocky point of bluff bears NE. about 50 lks. dist. Desc. 437 ft. over steep rocky S. slope to
43.00	True point for $\frac{1}{4}$ sec. cor. of secs. 2 and 3 falls on almost vertical face of sloping surface rock, where it cannot be monumented, therefore establish witness cor. 10 lks. S. 0° 10' E. herefrom.
43.10	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor. of secs. 2 and 3, marked on brass cap

Survey of Part. (Completion) of the Subdivision Lines - Township 15 S., Range 16 E.

Chains

W C  
1/4  
S 3 | S 2  
1930

- No bearing trees available.
- Raise a mound of stone, 3 ft. base, 1 1/2 ft. high, W. of cor.
- Desc. 425 ft. over SE. slope.
- 64.80 Wash, 15 lks. wide, course S. 20° W. Desc. 45 ft. over SW. slope.
- 81.30 Wash, 20 lks. wide, course S. 70° W. Asc. 26 ft. over NW. slope to
- 83.00 Intersect the original cor. of secs. 2, 3, 10 and 11, reconstructed as hereinbefore described.

Land, mountainous.  
Soil, rocky, 3rd rate.  
Timber, paloverde.  
Undergrowth, greasewood, catclaw and cacti.

- From original cor. of secs. 3, 4, 9 and 10,
- N. 0° 2' W. on random line, bet. secs. 3 and 4.
- 40.00 Set temp. 1/4 sec. cor. of sec. 3.
- 43.00 Set temp. 1/4 sec. cor. of sec. 4.
- 83.06 Fall 5 lks. W. of the cor. of secs. 3 and 4 on the N. bdy. of the Tn., hereinbefore described.

- Thence,
- South, on true line, bet. secs. 3 and 4.
- Over mountainous land, thru scattering timber and undergrowth.
- Desc. 650 ft. over SE. slope.
- 18.86 Rocky gulch, containing pools of water, course SW. Asc. 350 ft. over precipitous NW. slope.
- 29.00 Spur, slopes SW. Desc. 390 ft. over S. slope to
- 49.00 Set an iron post, 3 ft. long, 1 in. diam., 13 ins. in the ground to bedrock, deposit a stone marked with a cross (X) at base of post, and raise a mound of stone around post, for E. 1/4 sec. cor. of sec. 4, marked on brass cap

1/4  
S 4  
1930

- No bearing trees available.
- Desc. 40 ft. over S. slope to
- 43.06 Set an iron post, 3 ft. long, 1 in. diam., over a cross (X) marked on surface rock, and raise a mound of stone, 5 ft. base, 3 ft. high, around post, for W. 1/4 sec. cor. of sec. 3, marked on brass cap

1/4  
S 3  
1930

- No bearing trees available.
- Desc. 25 ft. over S. slope.
- 43.76 Draw, course S. 80° W. Asc. 60 ft. over N. slope.
- 45.35 Spur, slopes W. Desc. 40 ft. over S. slope.
- 48.25 Draw, course W. Asc. 90 ft. over N. slope.
- 53.56 Spur, slopes S. 70° W. Desc. 100 ft. over S. slope.
- 60.85 Drain, course SW. Asc. 10 ft. over NW. slope.
- 63.15 Desc. 110 ft. over SW. slope to
- 78.00 Drain, 10 lks. wide, course SE. Desc. 50 ft. over SE. slope
- 83.06 Intersect the original cor. of secs. 3, 4, 9 and 10,

Survey of  
Part (completion) of Subdivision Lines-Township 15 S., Range 16 E.

Chains

reconstructed as hereinbefore described.

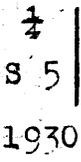
Land, mountainous.  
Soil, rocky, 4th rate.  
Timber, paloverde and mountain mahogany.  
Undergrowth, greasewood, catclaw and cacti.

42.25 From original cor. of secs. 4, 5, 8 and 9,  
N. 2° 8' E., on random line, bet. secs. 4 and 5.  
82.35 Set temp.  $\frac{1}{4}$  sec. cor. of sec. 4.  
Fall 12 lks. E. of the original cor. of secs. 4, 5, 32 and 33; on the N. bdy. of the Tp., reconstructed as hereinbefore described.

Thence  
S. 2° 3' W., on true line, bet. secs. 4 and 5.  
Over broken and mountainous land, thru scattering timber and undergrowth.  
10.00 Desc. 40' ft. over SW. slope.  
24.00 Wash, 25 lks. wide, course W. Asc. 82 ft. over NE. slope.  
31.00 Spur, slopes NW. Desc. 20 ft. over SW. slope.  
35.00 Gulch, course NW. Asc. 67 ft. over NE. slope.  
36.55 Spur, slopes NW. Desc. 13 ft. over SW. slope.  
40.02 Asc. 100 ft. over NW. slope to  
(40 chs. S. lat.) Set an iron post, 3 ft. long, 1 in. diam., over a cross (X) marked on surface rock, and raise a mound of stone, 7 ft. base, 3 ft. high, around post, for W.  $\frac{1}{4}$  sec. cor. of sec. 4, marked on brass cap



No bearing trees available.  
Asc. 15 ft. over NW. slope to  
41.07 (Proportional dist. based upon the record length of the line bet. secs. 5 and 6 by original survey.)  
Set an iron post, 3 ft. long, 1 in. diam., over a cross (X) marked on surface rock, and raise a mound of stone 5 ft. base, 3 ft. high, around post, for E.  $\frac{1}{4}$  sec. cor. of sec. 5, marked on brass cap



No bearing trees available.  
Asc. 20 ft. over NW. slope.  
42.50 Sour ridge, slopes S. 70° W. Desc. 460 ft. over broken S. slope.  
71.00 Wire fence, bears N. 20° W. and S. 20° E.  
74.00 Drain, course SW. Asc. 20 ft. over NW. slope.  
79.00 Desc. 30 ft. over SE. slope, across head of drain, course SE.  
82.35 Intersect the original cor. of secs. 4, 5, 8 and 9, reconstructed as hereinbefore described.

Land, mountainous.  
Soil, rocky, 3rd rate.  
Timber, paloverde.  
Undergrowth, greasewood, catclaw and cacti.

The continued satisfactory adjustment of the instrument used throughout the surveys described in the foregoing field notes is indicated by the results of the preliminary field tests of same described in Book "D".

Boundaries of Part of Township 15 South, Range 16 E.  
(Sections 1, 2, 3, 4 and 5.)

Latitudes, Departures and Closing Errors.

Lines Designated	True Courses	Dists.	Latitudes		Departures	
			N.	S.	E.	W.
Subdivisional Boundary	N. 89° 00' W.	40.14	.70			40.13
	N. 89° 17' W.	41.71	.52			41.71
	S. 89° 54' W.	39.05		.07		39.05
	S. 89° 53' W.	40.67		.08		40.67
	S. 89° 57' W.	80.28		.07		80.28
	N. 89° 2' W.	41.69	.70			41.68
	N. 89° 48' W.	39.43	.14			39.43
	N. 87° 57' W.	78.62	2.81			78.57
	N. 2° 50' E.	40.37	40.32			2.00
N. 0° 26' E.	39.34	39.34			.30	
North Bdy. of Township	N. 89° 55' E.	39.98	.06		39.98	
	S. 89° 51' E.	39.26		.10	39.26	
	EAST	320.02			320.02	
East Bdy. of Township	SOUTH	84.06		84.06		
Convergency					.07	
<b>Totals</b>			84.59	84.38	401.60	401.52
			84.38		401.52	
<b>Error in latitude</b>			0.21			
<b>Error in departure</b>					0.08	

GENERAL DESCRIPTION.

Sections 2, 3, 4, East half of 5, and West half and Northeast quarter of 1, constitute the area added to T.15 S., R.16 E. by the surveys hereinbefore described. The surface of this portion of the Tp. is mainly mountainous, the ridges and spurs being part of the Rincon Mountains. The mean elevation is about 4000 ft. above sea level. The drainage is southerly into the Rincon Wash, course westerly thru the central part of the Tp. There are no watercourses in this part of the Tp. which carry a permanent flow of water, but at the time of this survey there were pools of water in some of the washes and gulches. There are no springs. The soil is rocky, 3rd and 4th rate. Timber, paloverde, mesquite and mountain mahogany is very scattering. Over most of the land is a scattering undergrowth of greasewood, catclaw and cacti. There are no settlers or improvements. A small copper deposit, previously prospected, was observed in the northeast quarter of sec. 4, but there are no officially surveyed claims in the Tp. The land has a fair grazing value, but no other. Secs. 1 to 4 incl. are within the Coronado National Forest. The Southern Pacific Railroad crosses the SW. cor. of the Tp. The nearest postoffice is the town of Vail about seven miles S. Tucson is about sixteen miles NW.



CERTIFICATE OF UNITED STATES SURVEYOR

I, Dupree R. Averill, U. S. Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the District Cadastral Engineer, for Group 163 Arizona bearing date of the 17th day of June, 1930, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, resurveyed all those parts or portions of the East Boundary, North Boundary and Subdivision Lines of

Township 15 South, Range 16 East

and surveyed all those parts or portions of

the East Boundary, North Boundary and Subdivision Lines of

Township 15 South, Range 16 East of the Gila and Salt

River Base and Meridian, in the State of Arizona, which are represented in

and by diagram on page 2 hereof the foregoing field notes as having been executed by me, and under my direction; and that all the corners of

said resurvey

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

tions, and the special written instructions of the District Cadastral Engineer, for Group 163-Arizona,

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

such resurvey and survey.

Place: Phoenix, Arizona

Date: January 30, 1931.

[Signature of Dupree R. Averill]

Dupree R. Averill U. S. Surveyor.

APPROVAL

OFFICE OF U. S. SUPERVISOR OF SURVEYS,

Denver, Colo., December 14, 1931.

The foregoing field notes of the resurvey of Parts of the East and North bdrs. and Part of the Subdivision Lines of Township 15 South, Range 16 East and of the survey of

Part (Completion) of the East Boundary, Part (Completion) of the North Boundary, and Part (Completion) of the Subdivision Lines of Township 15 South, Range 16 East

of the Gila and Salt River Base and Meridian, in the State of Arizona

executed by Dupree R. Averill, U.S. Surveyor

under his special instructions dated June 17, 1930 for Group 163 Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the resurveys and surveys they describe, are hereby approved.

[Signature of U.S. Supervisor of Surveys]

U. S. Supervisor of Surveys.

I certify that the foregoing transcript of the field notes of the above described surveys in

has been correctly copied from the original notes on file in this office.

U. S. Supervisor of Surveys.