

3187

Book "A"

4-679

BOOK 3187

# FIELD NOTES

OF THE SURVEY OF THE

South boundary of

TOWNSHIP 14 SOUTH, RANGE 12 EAST,

the RESURVEY of the

Santa Cruz Guide Meridian, thru part of Township 15 South, and

Part of the West bdy. of TOWNSHIP 15 SOUTH, RANGE 12 EAST, and

the RETRACEMENT of part of

West bdy. and Subdivision lines, and

the SURVEY of

Part of the Subdivision lines,

of

TOWNSHIP 15 SOUTH, RANGE 12 EAST,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

John F. Hesse,

In the capacity of U. S. Surveyor, under instructions dated October 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.

Survey, Resurvey & Retracement commenced October 30, 1915

Survey, Resurvey & Retracement completed November 14, 1915

Executed under Assignment  
Instructions dated Oct. 18, 1915.

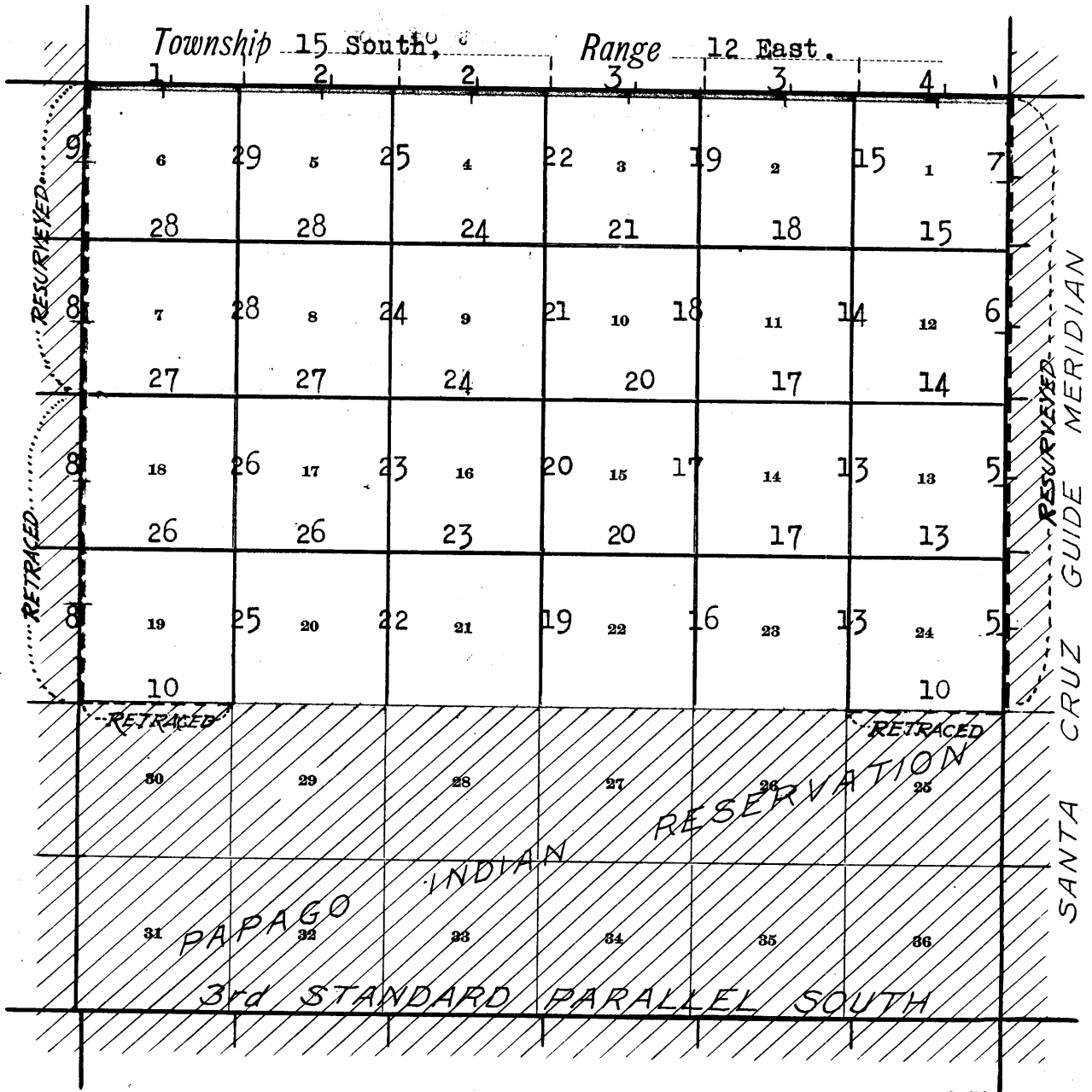
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Book "A"

Group 57 - - - Arizona.

BOOK 3187

# INDEX DIAGRAM.



- Subdivision lines surveyed under this group.
- Township lines surveyed under this group.
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## Survey of the South boundary of T. 14 S. R. 12 E.

Chains. Surveys, resurveys & retracements executed by John F. Hesse, U.S. Surveyor, on dates shown on diagram on page 30 hereof using an A. Lietz light mountain transit No. 6166, with solar attachment. The horizontal line is provided with two double verniers, placed opposite to each other, reading to single minutes of arc, which is also the least and count of the verniers of the lat. and decl. arcs.

The instrument was approved by the Assistant Supervisor of Surveys for Arizona and California, October 18, 1915 conditional upon satisfactory field tests.

October 29, 1915.

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. 15 S. R. 12 E.; latitude  $32^{\circ} 07' 49''$  N., longitude  $111^{\circ} 07' 12''$  W.; at 5h. 02m. a.m. by my watch, which has correct l.m.t., I observe Polaris at western elongation in accordance with 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.

At 7h. 00m. a.m., l.m.t., I lay off the azimuth of Polaris,  $1^{\circ} 21'$  to the east, and mark the meridian thus determined, by cutting a small groove in a stone firmly set in the ground, 5 chs. N. of my station.

At 8h. 00m. a.m. l.m.t., I set off  $32^{\circ} 08'$  N. on the lat. arc;  $13^{\circ} 12'$  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.

I set off  $13^{\circ} 16\frac{1}{2}'$  S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is  $32^{\circ} 08'$  N.

At 4h. 00m. p.m., l.m.t., I set off  $32^{\circ} 08'$  N. on the lat. arc;  $13^{\circ} 18\frac{1}{2}'$  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. west of the meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations, defines positions for meridians, respectively about  $0' 05''$  east and west of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 4h. 15m. p.m., is N.  $13^{\circ} 35'$  W.; the angle thus determined gives the mag. decl.  $13^{\circ} 35'$  E.

During the execution of the survey of T. 15 S. R. 12 E. the adjustments of the solar attachment were repeatedly tested and verified on this meridian.

The cor. of Tps. 14 and 15 S. Rgs. 12 and 13 E. is a granite stone, 10 x 4 x 3 ins. above ground, firmly set, marked with 6 notches on each edge; with a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, S. of cor.

Thence

West on a random line along S. bdy. of T. 14 S. R. 12 E. setting temp. cors. at intervals of 40.00 chs. and, at 6m. 6.15 chs., intersect the E. bdy. of T. 14 S. R. 11 E. 264 lks. N. of the cor. of Ts. 14 and 15 S. Rs. 11 and 12 E., which is a malpais stone 12 x 8 x 6 ins. above ground, firmly set, marked with 6 notches on each edge; with pits 24 x 24 x 12 ins. N., E., and W. of stone, 4 ft., and S. of stone, 8 ft. dist.; and a mound of earth 5 ft. base,  $2\frac{1}{2}$  ft. high, S. of cor. This falling answers to a correction of 19' per mile.

Chains.

	Thence N. 89° 41' E. on S. bdy. of sec. 31, marking and blazing true line. Over level land, through dense brush.
46.15	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap S31 $\frac{1}{4}$
	1915 dig pits, 18 x 18 x 12 ins. E. and W. of post, 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
86.15	Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 31 and 32, marked on brass cap T14S R12E S31 S32 S6 S5 T15S 1915 dig pits, 24 x 24 x 12 ins., NE. and NW., 6 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor. Land, level. Soil, sandy loam, dry, medium texture; 1st. rate. No timber. Undergrowth, greasewood, black brush, and mesquite.
35.40	N. 89° 41' E. on S. bdy. of sec. 32. Over level land, through dense brush.
40.00	Wash, 7 lks. wide, course SW. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap S32 $\frac{1}{4}$
	1915 dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
49.50	Wash, 5 lks. wide, course SW.
66.40	Wash, 6 lks. wide, course SW.
80.00	Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 32 and 33, marked on brass cap T14S R12E S32 S33 S5 S4 T15S 1915 dig pits, 24 x 24 x 12 ins., NE. and NW. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor. Land, level. Soil, sandy loam, dry, medium texture; 1st. rate. No timber. Undergrowth, greasewood, black brush and mesquite.
40.00	N. 89° 41' E. on S. bdy. of sec. 33 Over rolling land, through dense brush. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

South boundary of T. 14 S. R. 12 E.

3

Chains.	<div>S33 <math>\frac{1}{4}</math></div> <div>1915 dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, <math>3\frac{1}{2}</math> ft. base, <math>1\frac{1}{2}</math> ft. high, N. of cor. Road, bears NW. and SE. 46.80 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 33 and 34, marked on brass cap</div> <div><div><div>R12E</div><div><div>T14S S33 S34 S4 S3 T15S 1915</div></div></div><div>dig pits, 24 x 24 x 12 ins., NE. and NW., <math>5\frac{1}{2}</math> ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor. Land, level. Soil, sandy loam, dry, medium texture; 1st. rate. No timber. Undergrowth, greasewood, blackbrush and mesquite.</div></div>
<div>38.80 40.00</div>	<div>N. 89° 41' E. on S. bdy. of sec. 34 Over level land, through dense brush. Wash, 8 lks. wide, course SW. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for <math>\frac{1}{4}</math> sec. cor., marked on brass cap</div> <div>S34 <math>\frac{1}{4}</math></div> <div>1915 dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, <math>3\frac{1}{2}</math> ft. base, <math>1\frac{1}{2}</math> ft. high, N. of cor. Wash, 10 lks. wide, course SW. 75.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 34 and 35, marked on brass cap</div> <div><div><div>R12E</div><div><div>T14S S34 S35 S3 S2 T15S 1915</div></div></div><div>dig pits, 24 x 24 x 12 ins., NE. and NW., <math>5\frac{1}{2}</math> ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor. Land, level. Soil, sandy loam, dry, medium texture; 1st. rate. No timber. Undergrowth, greasewood, blackbrush and mesquite.</div></div>
<div>12.00 28.10 40.00</div>	<div>N. 89° 41' E. on S. bdy. of sec. 35 Over level land, through dense brush. Road, bears NE. and SW. Wash, 18 lks. wide, course SW. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for <math>\frac{1}{4}</math> sec. cor., marked on brass cap</div> <div>S35 <math>\frac{1}{4}</math></div> <div>1915 dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, <math>3\frac{1}{2}</math> ft. base, <math>1\frac{1}{2}</math> ft.</div>

Chains.	
80.00	<p>high, N. of cor. Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 35 and 36, marked on brass cap</p> <p style="text-align: center;">T14S S35 S36 R12E S2 S1 T15S 1915</p> <p>dig pits, 24 x 24 x 12 ins., NE. and NW., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor. Land, level. Soil, sandy loam, dry, medium texture; 1st. rate. No timber. Undergrowth, greasewood, blackbrush and mesquite.</p>
21.20	N. 89° 41' E. on S. bdy. of sec. 36 Over level land, through dense brush.
37.00	Wash, 10 lks. wide, course SW.
40.00	Wash, 6 lks. wide, course NW.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap
	S36 ¼ 1915
80.00	<p>dig pits, 18 x 18 x 12 ins.; E. and W. of post., 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor. The cor. of Tps. 14 and 15 S., Rgs. 12 and 13 E., hereinbefore described. Land, level. Soil, sandy loam, dry, medium texture, 1st rate. No timber. Undergrowth, greasewood, blackbrush and mesquite.</p>

Resurvey of Santa Cruz Guide Meridian, thru. part of Tp. 15 South, 5

Chains.

I commence at the cor. of secs. 19, 24, 25 and 30, on the E. bdy. of T. 15 S., R. 12 E. (Santa Cruz Guide Meridian) on the N. bdy. of the Papago Indian Reservation, which is an iron post, 3 ins. diam., 4 ins. above ground, marked on brass cap,

T15S  
R12E:R13E  
S24|S19  
S25|S30  
PIR  
1915

with pits 18x18x12 ins., in each sec. 5 $\frac{1}{2}$  ft. dist., and a mound of earth 4 ft. base, 2 ft. high, W. of cor.

Thence,

N. 0° 28' E., on E. bdy. of sec. 24.

Over level land, thru. dense brush.

32.60 Road brs. NE. and SW.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished  $\frac{1}{4}$  sec. cor. of sec. 24, marked on brass cap,

S24|  
1915

dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

40.42 Intersect the old  $\frac{1}{4}$  sec. cor. of secs. 19 and 24, a limestone 8x4x3 ins. above ground, firmly set, marked  $\frac{1}{4}$  on W. face, with pits 18x18x12 ins., N. and S. of stone, 3 ft. dist., and a mound of earth 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor. Now refers to sec. 19 only.

69.09 Road brs. NW. and SE.

72.20 Road brs. NW. and SE.

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

T15S  
S18  
S13  
S24|S19  
R12E R13E  
1915

dig pits, 24x24x12 ins., NW. and SW.  $\frac{1}{4}$  sec. 6 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, sandy loam, dry, medium texture, 1st rate.

No timber.

Undergrowth, greasewood and mesquite.

N. 0° 28' E., on E. bdy. of sec. 13.

Over level land; thru. dense brush.

0.81 Intersect the old cor. of secs. 13, 18, 19 and 24, a malpais stone 5x4x2 ins. above ground, firmly set, marked with 3 notches on N. and S. edges, with traces of pits and a mound of earth. Change to cor. of secs. 18 and 19 only by digging pits 24x24x12 ins. NE. and SE. of post, 6 ft. dist., and by raising a mound of earth 4 ft. base, 2 ft. high, E. of cor.

Thence continuing measurement,

N. 0° 29' E.

28.10 Road brs. NE. and SW.

34.00 Road brs. NE. and SW.

34.20 Road brs. NE. and SW.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished  $\frac{1}{4}$  sec. cor. of sec. 13, marked on brass cap,

S13|  
1915

dig pits 18x18x12 ins., N. & S. of post, 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

6 Resurvey of Santa Cruz Guide Meridian thru part of Tn. 15 South

Chains,	
41.17	Intersect the old $\frac{1}{2}$ sec. cor. of secs. 13 and 18, a malpais stone, 4x4x3 ins. above ground, firmly set, marked $\frac{1}{4}$ on W. face, with pits 18x18x12 ins., N. and S. of stone, 3 ft. dist., and <del>18x18x12 ins.</del> a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Now refers to sec. 18 only. Thence continuing measurement, N. $0^{\circ}23'E$ .
56.50	Road brs. E. and W.
60.00	Begin gradual ascent, over rolling land.
80.00	Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 12 and 13, marked on brass cap, <div style="text-align: center;">T158 S7 S12 S13 S18 R12E R13E 1915</div>
	and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Land, level and rolling. Soil, 0 to 60.00 chs., sandy loam, dry, medium texture; 1st rate; 60.00 to 80.00 chs., rocky, 4th rate. No timber. Undergrowth, greasewood, mesquite and palo verde.
	N. $0^{\circ}23'E$ , on E bdy. of sec. 12. Over rolling land, gradually ascending, thru dense brush.
1.52	Intersect the old cor. of secs. 7, 12, 13 and 18, a granite stone, 6x6x6 ins. above ground, firmly set, marked with 4 notches on S., and 2 notches on N. edges, with a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Change to cor. of secs. 7 and 18 only by moving mound of stone from W. to E. of cor. Thence, continuing measurement, N. $0^{\circ}33'E$ .
20.35	Wash, 15 lks. wide, course SW. Ascend.
29.30	Ridge, brs. E and W. 77 ft. above wash; descend.
36.00	Wash, 15 lks. wide, course NW. 30 ft. below ridge, and over rolling land.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., of sec. 12, marked on brass cap, <div style="text-align: center;">S12 1915</div>
	and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
41.70	Intersect the old $\frac{1}{4}$ sec. cor. of secs. 7 and 12, a malpais stone, loosely set in a mound of stone, 16x10x4 ins., marked $\frac{1}{4}$ on W. face. I set stone, 11 ins. in the ground, and build a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Now refers to sec. 7 only. Thence, continuing measurement. N. $1^{\circ}00'E$ .
50.55	Wash, 10 lks. wide, course NW.
55.12	Wash, 10 lks. wide, course NW.
65.05	Dim road brs. NE and SW.
65.84	Dim road brs. E and W.
67.80	Wash, 10 lks. wide, course W.
69.80	Wash, 15 lks. wide, course SW.
70.54	Trench from which pipe line has been removed, 3 lks. wide, 12 ins. deep, brs. E. and W.
71.90	Wash, 17 lks. wide, course W. Ascend.
80.00	Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 1 and 12, marked on brass cap, <div style="text-align: center;">T158 S6 S1 S12 S7 R12E R13E 1915</div>



## Resurvey of Santa Cruz Guide Mer., thru part of Tp. 15 South. 7.

Chains.

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

94 ft. above wash.

Land, rolling and mountainous.

Soil, rocky, 4th rate.

No timber.

Undergrowth, greasewood, palo verde, blackbrush and mesquite.

N.  $1^{\circ}00'$  E., on E. bdy. of sec. 1.

Ascend steep S. slope, thru scattering brush.

- 1.71 Intersect the old cor. of secs. 1, 6, 7 and 12, a granite stone firmly set in a mound of stone, marked with 5 notches on S. and 1 notch on N. edges, with a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Change to cor. of secs. 6 and 7 only by moving mound of stone from W. to E. of cor.

Thence, continuing measurement,

N.  $0^{\circ}10'$  W.

- 3.93 Ridge, brs. E. and W., 110 ft. above cor. of secs. 1 and 12, Peak about 10.00 chs. W. 150 ft. higher than ridge.

Descend.

- 9.00 Wash, 5 lks. wide, course NE. 120 ft. below ridge. Ascend.

- 15.50 Spur, NE. 85 ft. above wash. Descend.

- 16.50 Top of bluff, 30 ft. high.

- 24.45 Wash, 6 lks. wide, course NW. 120 ft. below spur, and over rolling land, thru dense brush.

- 29.00 Knoll about 50 ft. high, brs. W. about 5 chs. dist.

- 32.40 Wash, 20 lks. wide, course NW.

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

$\frac{1}{4}$  S1  
1915

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

- 41.40 Intersect the old  $\frac{1}{4}$  sec. cor. of secs. 1 and 6, a granite stone  $12 \times 8 \times 6$  ins. above ground, firmly set, marked  $\frac{1}{4}$  on W. face, with a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Now refers to sec. 6 only.

Thence, continuing measurement,

N.  $0^{\circ}26'$  W.

- 48.75 Wash, 6 lks. wide, course NW.

- 74.20 Wash, 5 lks. wide, course SW.

- 75.25 Road brs. NE. and SW.

- 81.52 Intersect the old cor. of Ts. 14 and 15 S., Rs. 12 and 13 E., hereinbefore described.

Land, mountainous and rolling.

Soil, rocky, 4th rate.

No timber.

Undergrowth, greasewood, palo verde and mesquite.

8. Retracement & resurvey of part of W bdy. of T.15 S. R.12 E.  
Chains.RETRACEMENT.

I commence at the cor. of secs. 19, 24, 25 and 30 on the W bdy. of the Tp., and on the N. bdy. of the Papago Indian Reservation, which cor. has evidently been reestablished by the U. S. Indian Service, and is an iron post 3 ins. diam., 6 ins. above ground, marked on brass cap,

T15S R12E  
S24 S19  
S25 S30  
PIR  
1915

Thence,

N. 0° 27' W., on a true line, bet. secs. 19 and 24 (south half).  
Over level land, thru dense brush.

- 40.01 Intersect the old  $\frac{1}{4}$  sec. cor., a malpais stone, 8x5x4 ins. above ground, firmly set, marked  $\frac{1}{4}$  on W. face, with traces of pits and mound of earth. I dig pits 18x18x12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Thence,

- 39.99 N. 0° 40' W., on a true line, bet. secs. 19 and 24 (north half).  
Intersect the cor. of secs. 13, 18, 19 and 24, a malpais stone, 8x8x8 ins. above ground, firmly set, marked with 3 notches on N. and S. edges, with pits 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and a mound of earth 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, sandy loam, dry, medium texture, 1st rate.

No timber.

Undergrowth, mesquite and cholla.

N. 0° 26' W., on a true line, bet. secs. 13 and 18.

Over level land, thru dense brush.

- 40.04 Intersect the old  $\frac{1}{4}$  sec. cor., a malpais stone, 10x6x4 ins. above ground, firmly set, marked  $\frac{1}{4}$  on W. face; pits and mound of earth obliterated; dig pits 18x18x12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Continue line and measurement.

- 74.20 Wash, 10 lks. wide, course NW.

- 80.06 Intersect the old cor. of secs. 7, 12, 13 and 18, a malpais stone, 8x6x4 ins. above ground, firmly set; marked with 4 notches on S. and 2 notches on N. edges; pits and mound of earth obliterated; dig pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, sandy loam, dry, medium texture, 1st rate.

No timber.

Undergrowth, mesquite, blackbrush and cholla.

RESURVEY.

From old cor. of secs. 7, 12, 13 and 18,

N. 0° 31' W., on a true line, bet. secs. 7 and 12.

Over level land, thru dense brush.

- 10.28 Road brs. NE. and SW.

- 40.01 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,

S12 S7  
1915

dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist. and raise mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Made careful search but was unable to find any trace of old  $\frac{1}{4}$  sec. cor.

Continue line and measurement.

- 80.02 Intersect the old cor. of secs. 1, 6, 7 and 12, a malpais stone 10x6x5 ins. above ground, firmly set, marked with 5 notches on S. & 1 notch on N. edges; pits and mound of earth nearly obliterated; dig pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist.

2001 917

Resurvey of part of West bdy of Township 15 South, Range 12 East. 9

Chains.

and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.  
Land, level.  
Soil, sandy loam, dry, medium texture, 1st rate.  
No timber.  
Undergrowth, mesquite and cholla.

- 16.70 N. 0° 28' W., on a true line, bet. secs. 1 and 6.  
Over level land, thru. dense brush.  
Wash, 25 lks. wide, course W.  
20.41 Road brs. E. and W.  
39.99 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in  
the ground, for reestablished  $\frac{1}{2}$  sec. cor., marked on  
brass cap, 4sl | s6  
1915  
dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.,  
and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high,  
W. of cor.  
Make careful search, but am unable to find any trace of  
old  $\frac{1}{2}$  sec. cor.  
Continue line and measurement.  
45.69 Road brs. NW. and SE.  
65.25 Wash, 25 lks. wide, course NW.  
79.98 The cor. of Ts. 14 and 15 S., Rs. 11 and 12 E. hereinbefore  
described.  
Land, level.  
Soil, sandy loam, dry, medium texture, 1st rate.  
No timber.  
Undergrowth, mesquite and black brush.

10. Retracement of part of Subdivision lines of T.15 S., R.12 E.

Chains

From the cor. of secs. 23, 24, 25 and 26, which cor. has evidently been reestablished by the U.S. Indian Service, and is an iron post 3 ins. diam., 12 ins. above ground, marked on brass cap,

T15S, R12E

S23 S24

S26 S25

PIR

1915

with pits 18x18x52 ins. in each sec. 5 $\frac{1}{2}$  ft. dist., and a mound of earth, 4 ft. base, 1 ft. high, W. of cor.

N. 89° 50' E. on a true line, bet. secs. 24 and 25 (N. bdy. of Papago Indian Reservation).

Over level land, thru dense brush.

- 20.07 Intersect the west 1/16 sec. cor. of sec. 25, evidently established by the U.S. Indian Service, an iron post 1 in. in diam., 18 ins. above ground, marked on brass cap,

W  $\frac{1}{16}$  S24

S25

PIR

1915

Continue line and measurement.

- 20.10 Wash, 15 lks. wide, course S.

- 40.15 Fall 1 lk. S. of  $\frac{1}{4}$  sec. cor., which cor. was evidently reestablished by the U.S. Indian Service, an iron post, 1 in. in diam., 14 ins. above ground, marked on brass cap,

$\frac{1}{4}$  S24

S25

PIR

1915

Continue line and measurement.

- 47.85 Road brs. NW. and SE.

- 48.85 Wash, 10 lks. wide, course SW.

- 49.75 Road brs. NE. and SW.

- 54.75 Road brs. NE. and SW.

- 60.21 Intersect the east 1/16 sec. cor. of sec. 25, evidently established by the U.S. Indian Service, an iron post, 1 in. in diam., 12 ins. above ground, marked on brass cap,

E  $\frac{1}{16}$  S24

S25

PIR

1915

Continue line and measurement.

- 80.27 Intersect the cor. of secs. 19, 24, 25 and 30 on E. bdy. of Tp., (Santa Cruz Guide Meridian), hereinbefore described, which cor. has evidently been reestablished by the U.S. Indian Service.

Land, level.

Soil, sandy loam, dry, medium texture, 1st rate.

No timber.

Undergrowth, greasewood and mesquite.

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

N. 89° 47' E., on a true line, bet. secs. 19 and 30 (N. bdy. of Papago Indian Reservation).

Over level land, thru dense brush.

- 20.70 Fall 3 lks. N. of the west 1/16 sec. cor. of sec. 30, evidently established by the U.S. Indian Service, an iron post, 1 in. in diam., 10 ins. above ground, marked on brass cap,

W  $\frac{1}{16}$  S19

S30

PIR

1915

Continue line and measurement.

- 21.50 Wash, 15 lks. wide, course N.

- 40.72 Fall 2 lks. N. of  $\frac{1}{4}$  sec. cor., which cor. was evidently reestablished by the U.S. Indian Service, an iron post, 1 in. in diam., 10 ins. above ground, marked on brass cap,



Survey of part of Subdivision of Township 15 S., R. 12 E. 13

Chains.	From the reestablished cor. of secs. 23, 24, 25 and 26, on the N. bdy. of the Papago Indian Reservation, hereinbefore described, North, bet. secs. 23 and 24. Over level land, thru. dense brush.
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, <div style="text-align: center;">S23   S24 1915</div> dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
42.18	Road brs. NE. and SW.
80.00	Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 13, 14, 23 and 24, marked on brass cap, <div style="text-align: center;">T15S   R12E S14   S13 S23   S24 1915</div> dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, level. Soil, sandy loam, dry, medium texture, 1st rate. No timber. Undergrowth, greasewood and mesquite.
<hr/>	
40.00	East, on a random line, bet. secs. 13 and 24. Set temp. $\frac{1}{4}$ sec. cor.
80.90	Intersect E. bdy. of Tp. (Santa Cruz Guide Meridian) 28 lks. S. of the reestablished cor. of secs. 13 and 24, hereinbefore described. Thence, S. $89^{\circ}48'$ W., on a true line, bet. secs. 13 and 24. Over level land, thru. dense brush.
15.40	Road brs. NW. and SE.
29.20	Wash, 20 lks. wide, course NE.
31.30	Road brs. NW. and SE.
40.90	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, <div style="text-align: center;">S13 <math>\frac{1}{4}</math> S24 1915</div> dig pits 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
69.80	Wash, 10 lks. wide, course NW.
80.90	The cor. of secs. 13, 14, 23 and 24. Land, level. Soil, sandy loam, dry, medium texture, 1st rate. No timber. Undergrowth, greasewood and mesquite.
<hr/>	
25.06	North, bet. secs. 13 and 14. Over level land, thru. dense brush. Road brs. E. and W.
33.20	Road brs. E. and W.
33.60	Wire fence brs. NW. and SE.
35.18	Wash, 15 lks. wide, course W.
39.40	Wire fence brs. N. $20^{\circ}$ E. and S. $20^{\circ}$ W.

## 14 Survey of part of Subdivision of Township 15 S., R.12 E.

Chains.

- 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,  
 $\frac{1}{4}$  S14 S13  
 1915  
 dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- 41.70 Wash, 20 lks. wide, course W.  
 51.30 Road brs. E. and W.  
 53.60 Road brs. E. and W.  
 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 11, 12, 13 and 14, marked on brass cap,  
 T15S R12E  
 S11 S12  
 S14 S13  
 1915  
 dig pits, 18x18x12 ins. in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.  
 Land, level.  
 Soil, sandy loam, dry, medium texture, 1st rate.  
 No timber.  
 Undergrowth, greasewood and mesquite.

- N.  $89^{\circ} 48' E.$ , on a random line, bet. secs. 12 and 13.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 81.39 Intersect E. bdy. of Tp., (Santa Cruz Guide Meridian), 1 lk. N. of the reestablished cor. of secs. 12 and 13, hereinbefore described.  
 Thence,  
 S.  $89^{\circ} 48' W.$ , on a true line, bet. secs. 12 and 13.  
 Over rolling land, gradually descending thru. dense brush.
- 41.39 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,  
 S12  
 $\frac{1}{4}$   
 S13  
 1915  
 from which,  
 A palo verde, 4 ins. in diam., brs. N.  $24\frac{1}{2}^{\circ} E.$ , 70 lks. dist., marked  $\frac{1}{4}$  S 12 B T.  
 A palo verde, 8 ins. diam., brs. S.  $73\frac{1}{2}^{\circ} E.$ , 94 lks. dist., marked  $\frac{1}{4}$  S 13 B T.  
 House, empty, brs. S.  $28\frac{1}{2}^{\circ} W.$
- 55.00 Over level land.  
 56.70 House, empty, brs. S.  $7^{\circ} 45' W.$   
 81.39 The cor. of secs. 11, 12, 13 and 14.  
 Land, level and rolling.  
 Soil, rocky; outcropping rock ledges, 4th rate.  
 No timber.  
 Undergrowth, greasewood, mesquite, cholla and palo verde.

- North, bet. secs. 11 and 12.  
 Over level land, thru. dense brush.
- 3.50 Wash, 40 lks. wide, course W.  
 17.80 Wash, 7 lks. wide, course W.  
 20.00 Ascend SW. slope.  
 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,  
 $\frac{1}{4}$  S11 S12  
 1915

Survey of part of the Subdivision of T. 15 S. R. 12 E.

11 15

Chains.	and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
42.00	Descend gradual NW. slope.
45.07	Wash, 12 lks. wide, course SW. Ascend gradual S. slope.
50.00	Road, bears NE. and SW.
63.30	Old boiler in smelter ruins, bears W. 83 lks. dist.
67.00	Ridge, bears E. and W. 45 ft. above wash. Descend.
71.10	Wash, 6 lks. wide, course NE. 30 ft. below ridge. Ascend.
75.00	Spur NE. 20 ft. above wash, Descend.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground, in a mound of stone, for cor. of secs. 1, 2, 11 and 12, marked on brass cap
	T15S R12E
	S2   S1
	S11   S12
	1915
	and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	15 ft. below spur.
	Land, rolling hills.
	Soil, rocky; 4th. rate.
	No timber.
	Undergrowth, greasewood, blackbrush, cholla and paloverde.
	N. 89° 48' E. on a random line, bet. secs. 1 and 12.
40.00	Set temp. ¼ sec. cor.
82.37	Intersect E. bdy. of Tp. (Santa Cruz Guide Mer.) 5 lks. N. of the reestablished cor. of secs. 1 & 12, hereinbefore described.
	Thence
	S. 89° 50' W. on a true line bet. secs. 1 and 12.
	Ascend along SE. slope through dense brush.
8.05	Spur S. 127 ft. above cor. Descend SW. slope.
17.00	Over rolling land. 205 ft. below spur.
38.07	Wash, 15 lks. wide, course NW.
42.37	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap
	S1
	¼
	S12
	1915
	and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
52.57	Cross roads at their intersection, one bears NE. and SW. and the other NW. and SE.
67.30	Wash, 5 lks. wide, course NW.
70.00	Wash, 5 lks. wide, course NW.
77.90	Wash, 5 lks. wide, course N. and ascend gradual NE. slope.
82.37	The cor. of secs. 1, 2, 11 and 12.
	Land, rolling and mountainous.
	Soil, rocky; 4th. rate., except from 17.00 to 77.90 chs. which is sandy loam, dry, medium texture; 1st. rate.
	No timber.
	Undergrowth, greasewood, paloverde, cholla and mesquite.
	North, on a true line, bet. secs. 1 and 2.
	Descend gradual N. slope, through dense brush.
5.20	Road, bears E. and W.
8.60	Wash, 7 lks. wide, course NW. and over rolling land.
9.50	Wash, 8 lks. wide, course W.
12.80	Wash, 8 lks. wide, course W.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap
	¼ S2   S1
	1915



## 16 Survey of part of the Subdivision of T. 15 S. R. 12 E.

Chains.

dig pits, 18 x 18 x 12 ins. N. and S. of post, 3 ft. dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
 76.90 Wash, 10 lks. wide, course W.  
 81.23 Intersect N. bdy. of Tp. 209 lks. S.  $89^{\circ} 41'$  W. of the cor. of secs. 35 and 36, T. 14 S. R. 12 E. hereinbefore described. At point of intersection, Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for closing cor. of secs. 1 and 2, marked on brass cap

T14S  
 R12E  $\frac{S35}{CIC}$   $\frac{S36}{S1}$   
 T15S  
 1915

dig pits, 24 x 18 x 12 ins., crosswise on each line, E. and W., 3 ft., and S. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, S. of cor.

Land, level and rolling.

Soil, sandy loam, dry, medium texture; 1st. rate; except S. 5.00 chs. which is rocky; 4th. rate.

No timber.

Undergrowth, greasewood, mesquite and blackbrush.

From the cor. of secs. 22, 23, 26 & 27, on the N. bdy. of the Papago Indian Reservation, which cor. has evidently been re-established by the U.S. Indian Service, an iron post 3 ins. diam., 12 ins. above ground, marked on brass cap,

T15S R12E  
 $\frac{S22}{S27}$   $\frac{S23}{S26}$   
 PIR  
 1915

Witnessed by 4 bearing trees.

N.  $0^{\circ} 01'$  W. bet. secs. 22 and 23.

Over level land, through dense brush.

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

$\frac{1}{4}S22$   $\frac{S23}{1915}$

dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

40.60 Wash, 10 lks. wide, course NE.

64.63 Wire fence, bears E. and W. brush becomes very scattering.

74.00 Across pond.

75.24 Embankment 4 ft. high, bears E. and W. S. bank of pond.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, marked on brass cap

T15S R12E  
 $\frac{S15}{S22}$   $\frac{S14}{S23}$   
 1915

dig pits, 18 x 18 x 12 ins., in each sec,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

From this cor. Domingo Valencia house bears S.  $37^{\circ} 39'$  E. 9.70 chs. dist.

Land, level.

Soil, sandy loam, dry, medium texture; 1st. rate.

No timber.

Undergrowth, greasewood, mesquite and cholla.

Survey of part of the Subdivision of T. 15 S. R. 12 E.

Chains.	East on a random line, bet. secs. 14 and 23. Set temp. $\frac{1}{4}$ sec. cor. Intersect N. and S. line, 16 lks. S. of the cor. of secs. 13, 14, 23 and 24. Thence S. $89^{\circ} 53'$ W. on a true line, bet. secs. 14 and 23. Over level land, through dense brush. Wash, 10 lks. wide, course NE. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap S14 $\frac{1}{4}$ S23 1915 dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Brush becomes scattering. Wire fence, bears N. and S. Road, bears NW. and SW. Fence, bears N. and S. Ditch, 4 lks. wide, course N. The cor. of secs. 14, 15, 22 and 23. Land, level. Soil, sandy loam, dry, medium texture; 1st. rate. No timber. Undergrowth, greasewood and mesquite.
4.80 5.25 24.80 30.00 40.00 58.50 60.48 66.00 75.06 75.97 77.00 80.00	N. $0^{\circ} 01'$ W. bet. secs. 14 and 15. Over level land, S. edge of pond. Embankment 4 ft. high, bears E. and W. N. edge of pond. Wire fence, bears E. and W. Road, bears NE. and SW. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S15 S14 1915 dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Road, bears E. and W. Wash, 25 lks. wide, course W. Enter dense brush, bears E. and W. Wash, 20 lks. wide, course W. Wash, 25 lks. wide, course W. Road, bears E. and W. Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 10, 11, 14 and 15, marked on brass cap T15S R12E S10 S11 S15 S14 1915 dig pits, 18 x 18 x 12 ins., in each sec., $5\frac{1}{2}$ ft. dist; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, level. Soil, sandy loam, dry, medium texture; 1st. rate. No timber. Undergrowth, greasewood and mesquite.
40.00	N. $89^{\circ} 53'$ E. on a random line, bet. secs. 11 and 14. Set temp. $\frac{1}{4}$ sec. cor.

## 18 Survey of part of the Subdivision of T. 15 S. R. 12 E.

Chains.	
80.17	Intersect N. and S. line, 3 lks. S. of the cor. of secs. 11, 12, 13 and 14. Thence S. 89° 52' W. on a true line, bet. secs. 11 and 14. Over level land, through dense brush.
14.78	Wash, 15 lks. wide, course SW.
17.00	Road, bears NE. and SW.
40.08½	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap S11 ¼ S14 1915 dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
80.17	The cor. of secs. 10, 11, 14 and 15. Land, level. Soil, sandy loam, dry, medium texture; 1st. rate. No timber. Undergrowth, greasewood and mesquite.
7.60	N. 0° 01' W. bet. secs. 10 and 11. Over level land, through dense brush.
40.00	Wash, 15 lks. wide, course NW. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼S10   S11 1915 dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
54.60	Road, bears NW. and SE.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 2, 3, 10 and 11, marked on brass cap T15S R12E S3   S2 S10   S11 1915 dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, level. Soil, sandy loam, dry, medium texture; 1st. rate. No timber. Undergrowth, greasewood and mesquite.
40.00	N. 89° 52' E. on a random line, bet. secs. 2 and 11 Set temp. ¼ sec. cor.
80.18	Intersect N. and S. line, 2 lks. N. of the cor. of secs. 1, 2, 11 and 12. Thence S. 89° 53' W. on a true line, bet. secs. 2 and 11. Descend along gradual NW. slope, through dense brush.
14.30	Road, bears NE. and SW. and over level land.
40.09	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap S2 ¼ S11 1915 dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft.

Survey of part of the Subdivision of T. 15 S. R. 12 E.

Chains.	high, N. of cor. The cor. of secs. 2, 3, 10 and 11. Land, level and hilly. Soil, 0 to 14.30 chs., rocky; 4th. rate, 14.30 to 80.18 chs., sandy loam, dry, medium texture; 1st. rate. No timber. Undergrowth, greasewood, mesquite and blackbrush.
80.18	
40.00	N. 0° 01' W. on a true line, bet. secs. 2 and 3. Over level land, through dense brush. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap <div>T14S S34 S35 C C S3 S2 T15S 1915</div>
77.00	dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Road, bears E. and W.
80.83	Intersect N. bdy. of Tp. 228 lks. S. 89° 41' W. of the cor. of secs. 34 and 35, T. 14 S. R. 12 E., hereinbefore described. At point of intersection, Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for closing cor. of secs. 2 and 3, marked on brass cap <div>T14S S34 S35 C C S3 S2 T15S 1915</div>
	dig pits, 24 x 18 x 12 ins. crosswise on each line, E. and W. 3 ft., and S. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, S. of cor. Land, level. Soil, sandy loam, dry, medium texture; 1st. rate. No timber. Undergrowth, greasewood, mesquite and blackbrush.
	From the cor. of secs. 21, 22, 27 and 28, on N. bdy. of the Papago Indian Reservation, which cor. has evidently been re-established by the U.S. Indian Service, an iron post, 3 ins. in diam., 13 ins. above ground, marked on brass cap, <div>T15S R12E S21 S22 S28 S27 PIR 1915</div>
	witnessed by 4 bearing trees.
	N. 0° 01' W. bet. secs. 21 and 22. Over level land, through dense brush.
1.39	Dim road, bears NE. and SW.
23.49	Road, bears NE. and SW.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap <div>T15S R12E S21 S22 S28 S27 PIR 1915</div>
	dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
50.00	Brush becomes scattering.
80.00	Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 15, 16, 21 and 22, marked on barss cap <div>T15S R12E S16 S15 S21 S22 1915</div>

## 20 Survey of part of the Subdivision of T. 15 S. R. 12 E.

Chains.	<p>dig pits, 18 x 18 x 12 ins., in each sec., <math>5\frac{1}{2}</math> ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.  Land, level.  Soil, sandy loam, dry, medium texture; 1st. rate.  No timber.  Undergrowth, mesquite, cholla and paloverde.</p>
40.00	East on a random line, bet. secs. 15 and 22. Set temp. $\frac{1}{4}$ sec. cor.
80.20	Intersect N. and S. line, 26 lks. S. of the cor. of secs. 14, 15, 22 and 23. Thence S. $89^{\circ} 49'$ W. on a true line, bet. secs. 15 and 22. Over level land, through very scattering brush.
3.77	Ditch, 8 lks. wide, course N.
4.86	Wire fence, bears N. and S.
18.40	Road, bears NE. and SW.
40.10	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap <div style="text-align: center;">S15 <math>\frac{1}{4}</math> S22 1915</div> <p>dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, <math>3\frac{1}{2}</math> ft. base, <math>1\frac{1}{2}</math> ft. high, N. of cor.</p>
80.20	The cor. of secs. 15, 16, 21 and 22. Land, level. Soil, sandy loam, dry, medium texture; 1st. rate. No timber. Undergrowth, mesquite and cholla.
11.40	N. $0^{\circ} 01'$ W. bet. secs. 15 and 16. Over level land, through scattering brush.
38.00	Wash, 15 lks. wide, course NW.
40.00	Leave brush. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap <div style="text-align: center;"><math>\frac{1}{4}</math>S16   S15 1915</div> <p>dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, <math>3\frac{1}{2}</math> ft. base, <math>1\frac{1}{2}</math> ft. high, W. of cor.</p>
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 9, 10, 15, and 16, marked on brass cap <div style="text-align: center;">T15S R12E S9   S10 S16   S15 1915</div> <p>dig pits, 18 x 18 x 12 ins., in each sec., <math>5\frac{1}{2}</math> ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.  Land, level.  Soil, sandy loam, dry, medium texture; 1st. rate.  No timber.  Undergrowth, mesquite and cholla.</p>
40.00	N. $89^{\circ} 49'$ E. on a random line, bet. secs. 10 and 15. Set temp. $\frac{1}{4}$ sec. cor.
80.10	Intersect N. and S. line, 2 lks. N. of the cor. of secs.

## Survey of part of the Subdivision of T. 15 S. R. 12 E.

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Chains.	10, 11, 14 and 15.
	Thence
	S. 89° 50' W. on a true line, bet. secs. 10 and 15.
	Over level land, through dense brush.
8.10	Road, bears NW. and SE.
11.90	Wash, 30 lks. wide, course NW.
40.05	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
	S10
	$\frac{1}{4}$
	S15
	1915
	dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Brush becomes scattering.
68.90	Wash, 25 lks. wide, course NW. Leave brush.
73.80	Road, bears NW. and SE.
80.10	The cor. of secs. 9, 10, 15 and 16.
	Land, level.
	Soil, sandy loam, dry, medium texture; 1st. rate.
	No timber.
	Undergrowth, greasewood and mesquite.
	N. 0° 01' W. bet. secs. 9 and 10.
	Over level land.
1.10	Road, bears E. and W.
3.10	Wash, 30 lks. wide, course W.
26.40	Enter dense brush.
27.20	Wash, 20 lks. wide, course W.
28.60	Road, bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
	$\frac{1}{4}$ S9   S10
	1915
	dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
68.30	Wash, 10 lks. wide, course NW.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 3, 4, 9 and 10, marked on brass cap
	T15S R12E
	S4   S3
	S9   S10
	1915
	dig pits, 18 x 18 x 12 ins., in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, level.
	Soil, sandy loam, dry, medium texture; 1st. rate.
	No timber.
	Undergrowth, mesquite, blackbrush and cholla.
	N. 89° 50' E. on a random line, bet. secs. 3 and 10.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.08	Intersect N. and S. line, at the cor. of secs. 2, 3, 10, and 11.
	Thence
	S. 89° 50' W. on a true line, bet. secs. 3 and 10.
	Over level land, through dense brush.
40.04	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
	S3
	$\frac{1}{4}$
	S10
	1915

22 Survey of part of the Subdivision of T. 15 S. R. 12 E.

Chains.	dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
80.08	The cor. of secs. 3, 4, 9 and 10. Land, level. Soil, sandy loam, dry, medium texture; 1st. rate. No timber. Undergrowth, mesquite, blackbrush and cholla.
	N. $0^{\circ} 01' W.$ , on a true line, bet. secs. 3 and 4. Over level land, through dense brush.
34.90	Road, bears NE. and SW.
39.00	Road, bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap S4 S3 1915
	dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
44.00	Ascend along SW. slope of rocky hill.
56.00	Spur W. 80 ft. above 44.00 chn. point. Descend.
64.00	Over level land, 70 ft. below spur.
67.90	SW. cor. of brush shed.
69.00	SW. cor. of Francisco Canes House bears E. 74 lks. dist.
69.30	Lime kiln bears E. 5 lks. dist.
70.18	Wire fence, bears NW. and SE.
73.60	Wash, 8 lks. wide, course SW.
79.40	Wire fence, bears E. and W.
80.70	Intersect N. bdy. of Tp. 245 lks. S. $89^{\circ} 41' W.$ of the cor. of secs. 33 and 34, T. 14 S. R. 12 E. hereinbefore described, At point of intersection, Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for closing cor. of secs. 3 and 4, marked on brass cap T14S S33 S34 R12E C C S4 S3 T15S 1915
	dig pits, 24 x 18 x 12 ins., crosswise on each line, E. and W., 3 ft., and S. of post., 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, S. of cor. Land, level and hilly. Soil, sandy loam, dry, medium texture; 1st. rate; except over hill, which is rocky; 4th. rate. No timber. Undergrowth, mesquite, greasewood and blackbrush.
	From the cor. of secs. 20, 21, 28 & 29, on the N. bdy. of the Papago Indian Reservation which cor. has evidently been reestablished by the U.S. Indian Service, an iron post 3 ins. in diam., 12 ins. above ground, marked on brass cap, marked on brass cap T15S R12E S20 S21 S29 S28 PIR 1915
	with pits, 18 x 18 x 12 ins., in each sec. $5\frac{1}{2}$ ft. dist.; and a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	N. $0^{\circ} 02' W.$ bet. secs. 20 and 21. Over level land, through dense brush.
13.81	Road, bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the

## Survey of part of subdivision of T. 15 S. R. 12 E.

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Chains.	<p>ground, for <math>\frac{1}{4}</math> sec. cor., marked on brass cap</p> <p style="text-align: center;"><math>\frac{1}{4}</math>S20   S21 1915</p> <p>dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, <math>3\frac{1}{2}</math> ft. base, <math>1\frac{1}{2}</math> ft. high, W. of cor.</p> <p>80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 16, 17, 20 and 21, marked on brass cap</p> <p style="text-align: center;">T15S R12E S17   S16 S20   S21 1915</p> <p>dig pits, 18 x 18 x 12 ins., in each sec., <math>5\frac{1}{2}</math> ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.</p> <p>Land, level.</p> <p>Soil, sandy loam, dry, medium texture; 1st. rate.</p> <p>No timber.</p> <p>Undergrowth, mesquite and cholla.</p>
40.00	East on a random line, bet. secs. 16 and 21.
80.16	Set temp. $\frac{1}{4}$ sec. cor.
	Intersect N. and S. line, 21 lks. S. of the cor. of secs. 15, 16, 21 and 22.
	Thence
	S. $89^{\circ} 51'$ W. on a true line, bet. secs. 16 and 21.
	Over level land, through dense brush.
40.08	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
	S16 $\frac{1}{4}$ S21 1915
	dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
80.16	The cor. of secs. 16, 17, 20 and 21.
	Land, level.
	Soil, sandy loam, dry, medium texture; 1st. rate.
	No timber.
	Undergrowth, mesquite and cholla.
	N. $0^{\circ} 02'$ W. bet. secs. 16 and 17.
	Over level land, through dense brush.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
	$\frac{1}{4}$ S17   S16 1915
	dig pits, 18 x 18 x 12 ins., N. and S. of post., 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 8, 9, 16 and 17, marked on barss cap
	T15S R12E S8   S9 S17   S16 1915
	dig pits, 18 x 18 x 12 ins., in each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, level.
	Soil, sandy loam, dry, medium texture; 1st. rate.
	No timber.



## 24 Survey of part of the Subdivision of T. 15 S. R. 12 E.

Chains.	Undergrowth, mesquite and cholla.
40.00	N. 89° 51' E. on a random line, bet. secs. 9 and 16. Set temp. $\frac{1}{4}$ sec. cor.
80.16	Intersect N. and S. line, 2 lks. S. of the cor. of secs. 9, 10, 15 and 16. Thence S. 89° 50' W. on a true line, bet. secs. 9 and 16. Over level land.
23.76	Wash, 15 lks. wide, course NW. and enter dense brush.
40.08	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap S9 $\frac{1}{4}$ S16 1915 dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
58.36	Wash, 10 lks. wide, course NW.
80.16	The cor. of secs. 8, 9, 16 and 17. Land, level. Soil, sandy loam, dry, medium texture; 1st. rate. No timber. Undergrowth, mesquite and cholla.
13.00	N. 0° 02' W. bet. secs. 8 and 9. Over level land, through dense brush.
13.70	Road, bears E. and W.
31.40	Wash, 8 lks. wide, course W.
40.00	Wash, 12 lks. wide, course W. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S8 S9 1915 dig pits, 18 x 18 x 12 ins., N. and S. of post., 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
51.60	Road, bears E. and W.
52.20	Wash, 15 lks. wide, course W.
65.51	Wash, 15 lks. wide, course W.
71.10	Road, bears NE. and SW.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 4, 5, 8 and 9, marked on brass cap T15S R12E S5 S4 S8 S9 1915 dig pits, 18 x 18 x 12 ins., in each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, level. Soil, sandy loam, dry, medium texture; 1st. rate. No timber. Undergrowth, mesquite and blackbrush.
40.00	N. 89° 50' E. on a random line, bet. secs. 4 and 9. Set temp. $\frac{1}{4}$ sec. cor.
80.12	Intersect N. and S. line, 6 lks. N. of the cor. of secs. 3, 4, 9 and 10. Thence

Survey of part of 1. Subdivision of T. 15 S. R. 12 E.

Chians.	S. 89° 53' W. on a true line, bet. secs. 4 and 9. Over level land, through dense brush.
40.06	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap $\begin{array}{r} S4 \\ \frac{1}{4} \\ \hline S9 \end{array}$ 1915 dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
44.40	Road, bears NE. and SW.
80.12	The cor. of secs. 4, 5, 8 and 9. Land, level. Soil, sandy loam, dry. medium texture; 1st. rate. No timber. Undergrowth, mesquite and blackbrush.
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	N. 0° 02' W. on a true line, bet. secs. 4 and 5. Over level land, through dense brush.
3.60	Wash, 20 lks. wide, course SW.
33.50	Wash, 10 lks. wide, course W.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap $\begin{array}{r} \frac{1}{4} S5   S4 \\ \hline 1915 \end{array}$ dig pits, 18, x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
54.20	Wash, 10 lks. wide, course W.
79.20	Wash, 8 lks. wide, course W.
80.32	Intersect N. bdy. of Tp. 259 lks. S. 89° 41' W. of the cor. of secs. 32 and 33, T. 14 S. R. 12 E. hereinbefore described. At point of intersection, Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for closing cor. of secs. 4 and 5, marked on brass cap $\begin{array}{r} T14S \\ S32   S33 \\ \hline R12E \quad C   C \\ S5   S4 \\ T15S \\ \hline 1915 \end{array}$ dig pits, 24 x 18 x 12 ins., crosswise on each line, E. and W. 3 ft., and S. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, S. of cor. Land, level. Soil, sandy loam, dry, medium texture; 1st. rate. No timber. Undergrowth, mesquite and blackbrush.
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	From the reestablished corner of secs. 19, 20, 29, and 30, hereinbefore described, Thence
	N. 0° 02' W. bet. secs. 19 and 20. Over level land, through dense brush.
14.32	Road, bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap $\begin{array}{r} \frac{1}{4} S19   S20 \\ \hline 1915 \end{array}$ dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
43.00	Road, bears E. and W.

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Chains.	
80.00	<p>Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 17, 18, 19 and 20, marked on brass cap</p> <p style="text-align: center;">T15S R12E S18 S17 S19 S20 1915</p> <p>dig pits, 18 x 18 x 12 ins. in each sec., <math>5\frac{1}{2}</math> ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, level. Soil, sandy loam, dry, medium texture; 1st. rate. No timber. Undergrowth, mesquite, blackbrush and cholla.</p>
40.00	East on a random line, bet. secs. 17 and 20.
80.22	<p>Set temp. <math>\frac{1}{4}</math> sec. cor. Intersect N. and S. line, 22 lks, S. of the cor. of secs. 16, 17, 20 and 21, Thence S. <math>89^{\circ} 51'</math> W. on a true line, bet. secs. 17 and 20. Over level land, through dense brush.</p>
40.11	<p>Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for <math>\frac{1}{4}</math> sec. cor., marked on brass cap</p> <p style="text-align: center;">S17 <math>\frac{1}{4}</math> S20</p> <p>dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, <math>3\frac{1}{2}</math> ft. base, <math>1\frac{1}{2}</math> ft. high, N. of cor.</p>
80.22	<p>The cor. of secs. 17, 18, 19 and 20. Land, level. Soil, sandy loam, dry, medium texture; 1st. rate. No timber. Undergrowth, mesquite and cholla.</p>
40.00	West on a random line, bet. secs. 18 and 19.
81.56	<p>Set temp. <math>\frac{1}{4}</math> sec. cor. Intersect W. bdy. of Tp. 26 lks. N. of old cor. of secs. 13, 18, 19 and 24, hereinbefore described. Thence N. <math>89^{\circ} 49'</math> E. on a true line, bet. secs. 18 and 19. Over level land, through dense brush.</p>
41.56	<p>Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for <math>\frac{1}{4}</math> sec. cor., marked on brass cap</p> <p style="text-align: center;">S18 <math>\frac{1}{4}</math> S19 1915</p> <p>dig pits, 18 x 18 x 12 ins., E. and W. of post., 3 ft. dist.; and raise a mound of earth, <math>3\frac{1}{2}</math> ft. base, <math>1\frac{1}{2}</math> ft. high, N. of cor.</p>
81.56	<p>The cor. of secs. 17, 18, 19 and 20. Land, level. Soil, sandy loam, dry, medium texture; 1st. rate. No timber. Undergrowth, mesquite, blackbrush and cholla.</p>
40.00	<p>N. <math>0^{\circ} 02'</math> W. bet. secs. 17 and 18. Over level land, through dense brush. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the</p>

## Survey of part of Subdivision of T. 15 S. R. 12 E.

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Chains.	<p>ground, for <math>\frac{1}{4}</math> sec. cor., marked on brass cap</p> <div style="text-align: center;"> <math>\frac{1}{4}</math>S18 S17  1915 </div> <p>dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, <math>3\frac{1}{2}</math> ft. base, <math>1\frac{1}{2}</math> ft. high, W. of cor.</p> <p>80.00 Set an iron post, 3 ft. long, 2 in. diam., 24 ins. in the ground, for cor. of secs. 7, 8, 17 and 18, marked on brass cap</p> <div style="text-align: center;"> T15S R12E  S7   S8  S18 S17  1915 </div> <p>dig pits, 18 x 18 x 12 ins., in each sec., <math>5\frac{1}{2}</math> ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.</p> <p>Land, level.  Soil, sandy loam, dry, medium texture; 1st. rate.  No timber.  Undergrowth, mesquite, blackbrush and cholla.</p>
40.00	N. $89^{\circ} 51'$ E. on a random line, bet. secs. 8 and 17.
80.18	Set temp. $\frac{1}{4}$ sec. cor.
	Intersect N. and S. line, 3 lks. N. of the cor. of secs. 8, 9, 16 and 17.
	Thence
	S. $89^{\circ} 52'$ W. on a true line, bet. secs. 8 and 17.
	Over level land, through dense brush.
40.09	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
	<div style="text-align: center;"> S8  <math>\frac{1}{4}</math>  <u>S17</u>  1915 </div>
	dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
80.18	The cor. of secs. 7, 8, 17 and 18.
	Land, level. Soil, sandy loam, dry, medium texture; 1st. rate. No timber. Undergrowth, mesquite, blackbrush and cholla.
40.00	S. $89^{\circ} 49'$ W. on a random line, bet. secs. 7 and 18.
82.00	Set temp. $\frac{1}{4}$ sec. cor.
	Intersect W. bdy. of Tp. 2 lks. S. of old cor. of secs. 7, 12, 13 and 18, hereinbefore described.
	Thence
	N. $89^{\circ} 50'$ E. on a true line, bet. secs. 7 and 18.
	Over level land, through dense brush.
42.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
	<div style="text-align: center;"> <math>\frac{3}{4}</math>7  <math>\frac{1}{4}</math>  <u>S18</u>  1915 </div>
	dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
82.00	The cor. of secs. 7, 8, 17 and 18.
	Land, level. Soil, sandy loam, dry, medium texture; 1st. rate. No timber. Undergrowth, mesquite, blackbrush and cholla.

## Survey of part of Subdivision of T. 15 S. R. 12 E.

Chains.	N. 0° 02' W. bet. secs. 7 and 8. Over level land, through dense brush. Leave brush. 5.00 15.20 Road, bears E. and W. 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S7 S8 1915 dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor. 40.58 Road, bears NE. and SW. 42.00 Road, bears NE. and SW. 67.40 Wash, 25 lks. wide, course W. 72.30 Road, bears E. and W. 73.30 Wash, 12 lks. wide, course W. 79.40 Wash, 25 lks. wide, course NW. and through dense brush. 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 5, 6, 7 and 8, marked on brass cap T15S R12E S6 S5 S7 S8 1915 from which A mesquite, 4 ins. diam., bears S. $12\frac{1}{2}$ ° E. 100 lks. dist., marked T15SR12ES8BT A mesquite, 6 ins. diam., bears S. $59\frac{3}{4}$ ° W. 102 lks. dist., marked T15SR12ES7BT No other bearings available. Dig pits, 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, level. Soil, sandy loam, dry, medium texture; 1st. rate. No timber. Undergrowth, mesquite.
40.00	N. 89° 52' E. on a random line, bet. secs. 5 and 8. Set temp. $\frac{1}{4}$ sec. cor.
80.20	Intersect the corner of secs. 4, 5, 8 and 9. 4, 5, 8, Thence S. 89° 52' W. on a true line, bet. secs. 5 and 8. Over level land, through dense brush. 21.52 Wash, 15 lks. wide, course NW. 40.10 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap S5 $\frac{1}{4}$ S8 1915 dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor. 59.83 Road, bears NW. and SE. 80.20 The cor. of secs. 5, 6, 7 and 8. Land, level. Soil, sandy loam, dry, medium texture; 1st. rate. No timber. Undergrowth, mesquite and blackbrush.
40.00	S. 89° 50' W. on a random line, bet. secs. 6 and 7. Set temp. $\frac{1}{4}$ sec. cor.
82.54	Intersect W. bdy. of Tp. 7 lks. S. of the reestablished

Chains. 1000 of secs. 1, 6, 7 and 12, hereinafore described.  
Thence  
N. 89° 53' E. on a true line, bet. secs. 6 and 7.  
Over level land, through dense brush.  
42.54 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the  
ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap  
 $\frac{1}{4}$  S6  
 $\frac{1}{4}$  S7  
1915  
dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft.  
dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft.  
high, N. of cor.  
52.90 Wash, 15 lks. wide, course NW.  
59.80 Road, bears NW. and SE.  
80.65 Wash, 25 lks. wide, course NW.  
82.54 The cor. of secs. 5, 6, 7 and 8.  
Land, level.  
Soil, sandy loam, dry, medium texture; 1st. rate.  
No timber.  
Undergrowth, mesquite.

N. 0° 02' W. on a true line, bet. secs. 5 and 6.  
Over level land, through dense brush.  
0.76 Wash, 15 lks. wide, course W.  
8.70 Road, bears NW. and SE.  
25.66 Wash, 15 lks. wide, course W.  
40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the  
ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap

$\frac{1}{4}$  S6 | S5  
1915  
dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft.  
dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft.  
high, W. of cor.  
80.15 Intersect N. bdy. of Tp. 290 lks. S. 89° 41' W. of the  
cor. of secs. 31 and 32, T. 14 S. R. 12 E. hereinafore  
described. At point of intersection,  
Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in  
the ground, for closing cor. of secs. 5 and 6, marked on  
brass cap

T14S  
R12E S31 | S32  
C | C  
S6 | S5  
T15S  
1915

dig pits, 18 x 18 x 12 ins., crosswise on each line, E.  
and W., 3 ft., and S. of post, 7 ft. dist.; and raise a  
mound of earth, 4 ft. base, 2 ft. high, S. of cor.  
Land, level.  
Soil, sandy loam, dry, medium texture; 1st. rate.  
No timber.  
Undergrowth, mesquite and blackbrush.

#### GENERAL DESCRIPTION.

The extreme NE. cor. of this township is hilly and the  
soil rocky, the rest of the township is level, and the  
soil a sandy loam, which, with water, would be very  
fertile. Extensive copper mining has been carried on  
in secs. 11 and 12, but the claims are now idle. Lime  
stone is quarried in sec 3. and burned for lime on the  
ground. There is no water or timber in the township,  
which is covered by a dense growth of greasewood and mes-  
quite undergrowth. There is one settler each in secs. 3,  
13 and 14.

Book "A"  
GROUP 57 - - - Arizona,  
Township 15 South, Range 12 East,  
DATE DIAGRAM.

	11-7-15	11-7-15	11-7-15	11-7-15	11-7-15	11-7-15
RESURVEYED	6	5	4	3	2	1
	11-14-15	11-14-15	11-12-15	11-11-15	11-9-15	11-9-15
	7	8	9	10	11	12
	11-13-15	11-13-15	11-12-15	11-11-15	11-9-15	11-8-15
RETRACED	18	17	16	15	14	13
	11-4-15	11-4-15	11-4-15	11-2-15	11-2-15	10-30-15
	19	20	21	22	23	24
	11-4-15	11-4-15	11-4-15	11-2-15	10-30-15	10-30-15

RETRACED	30	29	28	27	26	RETRACED
PAPAGO INDIAN RESERVATION						
31	32	33	34	35	36	

3rd Std. Parallel South

Surveys executed on dates as shown on above diagram,  
by John F. Hesse, U. S. Surveyor.

Bdy. of Papago Indian Reservation.

Santa Cruz Guide Meridian  
RESURVEYED





# CERTIFICATE OF UNITED STATES SURVEYOR.

BOOK 3187

I, John F. Hesse, \_\_\_\_\_, 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 Instructions, and the laws of the United States, surveyed all those parts or portions of the South boundary of Township 14 South, Range 12 East, and the Subdivision lines of Township 15 South, Range 12 East; retraced all those parts or portions of the West bdy and Subdivision lines of Township 15 South, Range 12 East, and Resurveyed all those parts or portions of the East and West boundaries of Township 15 South, Range 12 East, \_\_\_\_\_ of the Gila and Salt River Base and Meridian, in the State of Arizona, \_\_\_\_\_, which are represented by the diagram on page 30 hereof and in the foregoing field notes as having been executed by me, and under my direction; and that all the corners of said surveys <sup>retracements and resurveys</sup> have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, 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 surveys, retracements and resurveys.

*John F. Hesse*  
U. S. Surveyor.

## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, October 14, 1915.

The foregoing field notes of the survey of the South bdy. of Township 14 South, Range 12 East, the Resurvey of parts of the East and West bdrs., the Retracement of part of the West bdy and Subdivision lines, and completion of the survey of the Subdivision lines of Township 15 South, Range 12 East, \_\_\_\_\_ of the Gila and Salt River Base and Meridian, in the State of Arizona, \_\_\_\_\_

executed by John F. Hesse, U. S. Surveyor, \_\_\_\_\_ under his special instructions dated October 1, 1915, for Group 57, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys <sup>retracements and resurveys</sup> they describe, are hereby approved.

*Frank D. Frost*  
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.~~