

3418

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Book "A"

Duplicate

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BOOK 3418

# FIELD NOTES

OF ~~THE SURVEY~~ THE

RESURVEY OF

3rd STANDARD PARALLEL NORTH

through

Ranges 11, 12 and 13 East

Within the Papago Indian Reservation

Of the Gila & Salt River Base and Meridian,

In the State of Arizona

EXECUTED BY

Charles M. Leedy

In the capacity of U. S. Surveyor, under instructions dated Oct. 6, 1914,

Commissioner of the General Land Office to A.F. Dunnington,  
issued by the ~~United States Surveyor General to govern surveys included in~~  
Topographer in Charge of Indian Surveys

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

~~Office,~~                     , 1914, pursuant to authority contained in the Act of

~~Congress dated~~                     , 1914

Survey commenced January 5, 1915

Survey completed June 28, 1915

3418

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BOOK 3418

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Resurvey of  
3rd Standard Parallel N. through R. 13 E.

Chains

Survey commenced January 5, 1915, by Charles M. Leedy, U. S. Surveyor, and executed with a Young and Sons' light mountain transit No. 8501, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

For Polaris observation see book "E", Page 1.

The iron posts used in this survey are the regular General Land Office iron posts, 36 inches long, set 26 inches in the ground. The posts at section and township corners are 3 inches in diameter and those at 1/4, 1/16, 1/64, 1/256 and meander corners are 1 inch in diameter.

The SW. cor. of T. 15 S., R. 13 E. is in  
Latitude 32° 5' N.  
Longitude, 111° 4' W.

January 5, 1915. At 8h a.m., l.m.t., I set off 32° 5' on lat. arc; and 22° 38 1/2' S. on decl. arc; and determine a meridian with the solar at the S. C. of tps. 15 and 16 S., Rs. 12 and 13 E., which is a malpais stone 16 x 16 x 12 ins. in a mound of stone, marked plainly with 6 notches N. E. & W. (none visible on the S.)

N. and alongside set an iron post 3 ins. dia., 10 ins. in ground, stamped on cap.

S C T 15 S in N.  
R 12 E S 36 in NW.  
R 13 E S 31 in NE.  
S 6 in SE.  
S 1 in SW.  
T 16 S 1915 in S.

Build a mound of stone around post.

Thence E. on a random line on S. bdy. of sec. 31.

40.00 Set temp. 1/4 sec. cor. After diligent search no trace of old cor. is found.

80.00 Set temp. S. C. of secs. 31 and 32. After diligent search no trace of old cor. is found.

Continue E. on a random line along the S. bdy. of sec. 32.

40.00 Set temp. Standard 1/4 sec. cor. of sec. 32. After diligent search no trace of old cor. is found.

78.62 Set temp. C. C. bet. secs. 4 and 5. After diligent search no trace of old cor. is found.

81.28 Fall 3.51 chs. S. of old S. C. of secs. 32 and 33, which is a post 4 ins. square, 18 ins. above ground, plainly mkd.

S C T XV S R XIII E on N.  
S XXXIII on E.  
S XXXII on W.

Resurvey of  
3rd Standard Parallel N. through R. 13 E.

## Chains

N. and alongside set an iron post 3 ins. dia. stamped in cap

S C in N.  
T 15 S S 32 in NW.  
R 13 E S 33 in NE.  
1915 in S.

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

Returning to S. C. of tps. <sup>15</sup> and <sup>16</sup> S., Rs. 12 and 13 E.

Thence I run

N.  $88^{\circ} 45'$  E. on a true line descending SE. slope of Black Mountain, through giant cacti and palo verde.

19.50 Foot of descent; drain, course N.  $60^{\circ}$  E.

Begin ascent along NW. slope; leave cacti, brs. N.  $60^{\circ}$  E. and S.  $60^{\circ}$  W.

40.33 Set an iron post 1 ins. dia. for the Standard  $\frac{1}{4}$  sec. cor. of sec. 31, stamped on cap

S C  $\frac{1}{4}$  S 31 in N.  
1915 in S.

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

Thence along N. slope descending.

79.46 Fall 1.84 chs. N. of old C. C. secs. 5 and 6 (will find description and establishment of same in notes of subd. T. 16 S., R. 13 E.).

80.66 (Proportional Dist.) In saddle; foot of gradual descent. Asc.

Set an iron post 3 ins. dia. for the S. C. of secs. 31 and 32, stamped on cap

S C in N.  
T 15 S S 31 in NW.  
R 13 E S 32 in NE.  
1915 in S.

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

Land, mountainous.

Soil, rocky 4th rate.

Timber, palo verde; giant cacti 19.50 chs.

January 5, 1915. At this cor. I set off  $22^{\circ} 39\frac{1}{2}'$  S. on decl. arc; and at apparent noon, observe the sun on the meridian, the resulting lat. is  $32^{\circ} 5'$  which is the proper lat.

Resurvey of  
3rd Standard Parallel N. through R. 13 E.

Chains	
	Continue N. 88° 45' E. on a true line along S. bdy. of sec. 32.
	Ascent gradual through palo verde and cacti.
15.00	Top of ascent, brs. N. & S.; desc. gradual.
20.00	Foot of descent, brs. N. & S. Ascend gradual NW. slope.
25.00	Top of ascent, brs. NE. & SW. Begin descent.
33.00	Foot of descent, brs. NE. & SW. Thence level.
35.00	Wash, 2 chs. wide, course NE. Enter mesquite timber, brs. N. & S.
40.33	(Proportional dist.) Set an iron post 1 in. dia. for the Standard $\frac{1}{4}$ sec. cor. of sec. 32, stamped on cap  S C $\frac{1}{4}$ S 32 in N. 1915 in S.
	Dig pits 18 x 18 x 12 ins. E. & W. of cor. 3 ft. dist.; and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
41.60	Road, Tucson to Nogales, brs. NE. & SW.
79.27	(Proportional dist.) Set an iron post 2 ins. dia. for the C. C. of secs. 4 and 5, stamped on cap  T 15 S R 13 E. S 32 in N. S 5 T 16 S in SW. S 4 R 13 E in SE. C C 1915 in S.
	Dig pits 24 x 18 x 12 ins. crosswise on each line, E. & 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.
80.66	Intersect S. C. of secs. 32 and 33, previously described.  Land, level 57.66 chs.; rolling 33.00 chs. Soil, 2nd and 3rd rate. Timber, Palo verde and mesquite.
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	Thence E. on R. line along S. bdy. of sec. 33.
40.00	Set temp. Standard $\frac{1}{4}$ sec. cor. of sec. 33. After diligent search no trace of old cor. is found.
78.21	Set temp. C. C. of secs. 3 and 4. After diligent search no trace of old cor. is found.
80.18	Fall 28 lks. S. of point for cor. as established from stump of old NW. B. T.; old SE. tree missing.  Set an iron post 3 ins. dia. for the S. C. of secs. 33 and 34, stamped on cap  S C in N. T 15 S S 33 in NW. R 13 E S 34 in NE. 1915 in S.

Resurvey of  
3rd Standard Parallel N. through R. 13 E.

Chains

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

From which stump of old B. T. which is a Mesquite 12 ins. dia. brs. N. 4° 15' W., 167 lks. dist., mkd. S. 33 B T.

(S. 59½° E. 191 lks. dist., is a depression from which the old B. T. was probably removed, practically agreeing in bearing and only 12 lks. different in measurement.)

Returning to S. C. of secs. 32 and 33.

Thence I run

N. 89° 48' E. on a true line, along S. bdy. of sec. 33, descend gradually over nearly level land, through scattering mesquite trees and mesquite brush.

23.00 Wash, 30 lks. wide, course NE.

40.09 (Proportional dist.) Set an iron post 1 in. dia. for the Standard ¼ sec. cor. of sec. 33, stamped on cap

S C ¼ S 33 in N.  
1915 in S.

Dig pits 18 x 18 x 12 ins. E. & W. of cor. 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high, N. of cor.

72.60 Road, brs. NW. & SE.

78.39 (Proportional Dist.) Set an iron post 2 ins. dia. for the C. C. of secs. 3 and 4, stamped on cap

T 15 S R 13 E S 33 in N.  
S 4 T 16 S in SW.  
S 3 R 13 E. in SE.  
C C 1915 in S.

Dig pits 24 x 18 x 12 ins. crosswise on each line, E. & 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.

80.18 The S. C. of secs. 33 and 34, previously described.

Land, nearly level.  
Soil, sandy and 2nd rate.  
Timber, scattering mesquite, mesquite brush and cacti.

January 5, 1915.

January 6, 1915. At 8h a.m., l.m.t., I set off 32° 5' on lat. arc, and 22° 32' S. on decl. arc, and determine a meridian with the solar at the S. C. of secs. 33 and 34.

Thence E. on a random line.

## Resurvey of

## 3rd Standard Parallel N. through R. 13 E.

Chains	
40.00	Set temp. Standard $\frac{1}{4}$ sec. cor. of sec. 34. After diligent search no trace of old cor. is found. Thence setting temp. $\frac{1}{16}$ , $\frac{1}{64}$ and $\frac{1}{256}$ cors.
78.13	Set temp. C. C. of secs. 2 and 3. After diligent search no trace of old cor. is found.
80.00	Set temp. S. C. of secs. 34 and 35. After diligent search no trace of old cor. is found.
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40.36	Continue E. on a random line setting temp. $\frac{1}{16}$ , $\frac{1}{64}$ and $\frac{1}{256}$ cors. Falls 17 lks. S. of the old Standard $\frac{1}{4}$ sec. cor. of sec. 35, which is a mesquite tree 20 ins. dia., mkd. $\frac{1}{4}$ . N. and alongside set an iron post 1 in. dia., for the Standard $\frac{1}{4}$ sec. cor. of sec. 35, stamped on cap S C $\frac{1}{4}$ S 35 in N. 1915 in S. From which the old B. T.s mkd. as reported are - Mesquite 12 ins. dia. brs. N. 82° E., 50 lks. dist. Mesquite 14 ins. dia. brs. N. 40° W., 12 lks. dist. Returning to the S. C. of secs. 33 and 34. Thence I run N. 89° 55' E. on a true line along the S. bdy. of sec. 34, over level land, through scattering mesquite timber and mesquite brush.
36.80	Road, Tucson to Nogales - brs. N. 30° W. and S. 30° E.
37.00	Fence, brs. N. 30° W. and S. 30° E.
40.12	(Proportional dist.) Set an iron post 1 in. dia. for the Standard $\frac{1}{4}$ sec. cor. of sec. 34, stamped on cap S C $\frac{1}{4}$ S 34 in N. 1915 in S.
45.14	Dig pits 18 x 18 x 12 ins. E. & W. of cor. 3 ft. dist.; and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Set an iron post 1 in. dia. for the <sup>standard</sup> $\frac{1}{256}$ sec. cor. of sec. 34, stamped on cap S C $\frac{1}{256}$ S 34 in N. 1915 in S. Dig pits 18 x 18 x 12 ins. E. & W. of cor. 3 ft. dist.; and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.



Resurvey of  
3rd Standard Parallel N. through R. 13 E.

Chains	
50.15	<p style="text-align: right;">Standard</p> <p>Set an iron post 1 in. dia. for the <math>\frac{1}{64}</math> sec. cor. of sec. 34, stamped on cap</p> <p style="text-align: center;">S C <math>\frac{1}{64}</math> S 34 in N. 1915 in S.</p> <p>Dig pits 18 x 18 x 12 ins. E. &amp; W. of cor. 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>
55.17	<p style="text-align: right;">Standard</p> <p>Set an iron post 1 in. dia. for the <math>\frac{1}{256}</math> sec. cor. of sec. 34, stamped on cap.</p> <p style="text-align: center;">S C <math>\frac{1}{256}</math> S 34 in N. 1915 in S.</p> <p>Dig pits 18 x 18 x 12 ins. E. &amp; W. of cor. 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>
60.18	<p style="text-align: right;">Standard</p> <p>Set an iron post 1 in. dia. for the <math>\frac{1}{16}</math> sec. cor. of sec. 34, stamped on cap</p> <p style="text-align: center;">S C <math>\frac{1}{16}</math> S 34 in N. 1915 in S.</p> <p>Dig pits 18 x 18 x 12 ins. E. &amp; W. of cor. 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>
62.40	Road, brs. N. & S.
65.20	<p style="text-align: right;">Standard</p> <p>Set an iron post 1 in. dia. for the <math>\frac{1}{256}</math> sec. cor. of sec. 34, stamped on cap</p> <p style="text-align: center;">S C <math>\frac{1}{256}</math> S 34 in N. 1915 in S.</p> <p>Dig pits 18 x 18 x 12 ins. E. &amp; W. of cor. 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>
70.21	<p style="text-align: right;">Standard</p> <p>Set an iron post 1 in. dia. for the <math>\frac{1}{64}</math> sec. cor. of sec. 34, stamped on cap</p> <p style="text-align: center;">S C <math>\frac{1}{64}</math> S 34 in N. 1915 in S.</p> <p>Dig pits 18 x 18 x 12 ins. E. &amp; W. of cor. 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>
71.70	Road, brs. NW. & SE.
75.23	<p style="text-align: right;">Standard</p> <p>Set an iron post 1 in. dia. for the <math>\frac{1}{256}</math> sec. cor. of sec. 34, stamped on cap</p> <p style="text-align: center;">S C <math>\frac{1}{256}</math> S 34 in N. 1915 in S.</p>
76.30	<p>Enter wash, course N. 85° E. ←</p> <p style="text-align: right;">Standard</p> <p>Dig pits 18x18x12 ins. E. &amp; W. of cor. 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>
78.37	True point for C. C. of secs. 2 and 3 falls in wash (set temp. cor.)
80.24	(Proportional dist.) True point for S. C. of secs. 34 and 35, falls in wash and is impracticable to set.

## Resurvey of

3rd Standard Parallel N. through R. 13 E.

## Chains

Therefore, 70 lks. dist., N.  $89^{\circ} 55'$  E., I set an iron post 3 ins. dia. for the W. C. to S. C. of secs. 34 and 35, stamped on cap

S C in N  
W C T 15 S S 34 in NW  
R 13 E S 35 in NE  
1915 in S

From which a

Mesquite 36 ins. dia., brs. N.  $15\frac{1}{2}^{\circ}$  E., 132 lks. dist.  
mkd. T 15 S R 13 E S 35 W C S C B T  
Mesquite 5 ins. dia., brs. N.  $31\frac{1}{2}^{\circ}$  W., 21 lks. dist.  
mkd. T 15 S R 13 E S 34 W C S C B T

Land, level.

Soil, 2nd rate, sandy.

Timber, scattering mesquite and mesquite brush.

-----  
Thence from true point for S. C. 34 and 35 in wash,  
I continue N.  $89^{\circ} 55'$  E. on a true line along S.  
bdy. of sec. 35.

Over level land through scattering mesquite timber  
and mesquite brush.

.50 Leave wash, course SE.

.70 The W. C. to the S. C. of secs. 34 and 35.

5.02 Set an iron post 1 in. dia. for the Stand. 1/256 sec.  
cor. of sec. 35, stamped on cap

S C 1/256 S 35 in N  
1915 in S

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

From which a

Mesquite 30 ins. brs. E. 1 lk. dist.

(No other B. Ts. available)

8.20 W. bank of old channel of Rio Santa Cruz, course N.

9.60 E. bank of old channel of Rio Santa Cruz, course N.

Enter dense mesquite bearing N. and S.

10.03 Set an iron post 1 in. dia. for the Standard 1/64  
sec. cor. of sec. 35, stamped on cap

S C 1/64 S 35 in N  
1915 in S

From which a

Resurvey of

3rd Standard Parallel N. through R. 13 E.

Chains	
	Mesquite 14 ins. dia., brs. N. 20 $\frac{1}{4}$ ° E., 53 lks. dist. mkd. S C 1/64 S 35 B T.
	Mesquite 24 ins. dia., brs. N. 37° W., 87 lks. dist.; mkd. S C 1/64 S 35 B T.
12.10	Irrigation ditch, 10 lks. wide, course N.
15.05	Set an iron post 1 in. dia., for the Standard 1/256 sec. cor. of sec. 35, stamped on cap  S C 1/256 S 35 in N. 1915 in S.  From which a  Mesquite 8 ins. dia., brs. N. 12° E., 130 lks. dist., mkd. S C 1/256 S 35 B T.  Mesquite 30 ins. dia., brs. N. 27 $\frac{1}{2}$ ° W., 43 lks. dist., mkd. S C 1/256 S 35 B T.
17.00	Wood road, brs. NE. & SW.
20.06	Set an iron post 1 in. dia. for the Standard W. 1/16 sec. cor. of sec. 35, stamped on cap  S C W 1/16 S 35 in N. 1915 in S.  From which a  Mesquite 6 ins. dia., brs. N. 35° E., 39 lks. dist., mkd. S C W 1/16 S 35 B T.  Mesquite 6 ins. dia., brs. N. 1 $\frac{3}{4}$ ° W., 133 lks. dist., mkd. S C W 1/16 S 35 B T.
25.08	Set an iron post 1 ins. dia. for the Standard 1/256 sec. cor. of sec. 35, stamped on cap  S C 1/256 S 35 in N. 1915 in S.  From which a  Mesquite 30 ins. dia., <sup>brs.</sup> N. 36 $\frac{1}{4}$ ° E., 13 lks. dist., mkd. S C 1/256 S 35 B T.  Mesquite 6 ins. dia., brs. N. 46 $\frac{1}{2}$ ° W. 85 lks. dist., mkd. S C 1/256 S 35 B T.
30.09	Set an iron post 1 in. dia. for the Standard 1/64 sec. cor. of sec. 35, stamped on cap  S C 1/64 S 35 in N. 1915 in S.  From which a  Mesquite 5 ins. dia., brs. N. 5 $\frac{1}{2}$ ° E., 51 lks. dist., mkd. S C 1/64 S 35 B T.  Mesquite 5 ins. dia., brs. N. 53 $\frac{3}{4}$ ° W., 28 lks. dist., mkd. S C 1/64 S 35 B T.
35.11	Set an iron post 1 in. dia., for the Standard 1/256 sec. cor. of sec. 35, stamped on cap

## Resurvey of

## 3rd Standard Parallel N. through R. 13 E.

Chains	
	<p style="text-align: center;">S C 1/256 S 35 in N. 1915 in S.</p>
	<p>From which a</p>
	<p>Mesquite 8 ins. dia., brs. N. 30½° E., 84 lks. dist., mkd. S C 1/256 S 35 B T.</p>
	<p>Mesquite 6 ins. dia., brs. N. 44° W., 44 lks. dist., mkd. S C 1/256 S 35 B T.</p>
40.12	<p>Intersect Standard ¼ sec. cor. of sec. 35, previously described.</p> <p>Land, level bottom land. Soil, 1st rate. Timber, Mesquite, with mesquite brush and cat claw.</p> <p>January 6, 1915. At this cor. I set off 22° 32½' S. on decl. arc, and at apparent noon observe the sun on the meridian. The resulting lat. is 32° 5' which is the proper lat.</p>
40.00	<p>Thence E. on a random line along S. bdy. of sec. 35, setting temp. 1/16, 1/64 and 1/256 sec. cors.</p> <p>Set temp. S. C. of secs. 35 and 36. After diligent search no trace of old cor. is found.</p>
40.00	<p>Continue E. on a random line along S. bdy. of sec. 36, setting temp. 1/16, 1/64 and 1/256 sec. cors.</p> <p>Set temp. Standard ¼ sec. cor. of sec. 36. After diligent search no trace of old cor. is found.</p>
80.00	<p>(Discontinue the 1/16, 1/64 and 1/256 temp. cors.)</p> <p>Set temp. S. C. tps. 15 S., Rs. 13 and 14 E.</p> <p style="text-align: right;">January 6, 1915.</p>
40.00	<p>January 7, 1915. At 8h a.m., l.m.t., I set off 32° 5' on lat. arc, and 22° 24½' S. on decl. arc, and determine a meridian with the solar at temp. S. C. tps. 15 S., Rs. 13 and 14 E.</p> <p>Thence E. on a random line along the S. bdy. of sec. 31.</p> <p>Set temp. ¼ sec. cor. No trace of old cor. found.</p>
80.00	<p>Set temp. cor. No trace of old cor. found.</p>
40.00	<p>Thence E. on a random line along S. bdy. of Sec. 32,</p>
80.00	<p>Set temp. ¼ sec. cor. No trace of old cor. found. Set temp. cor. No trace of old cor. found.</p>

Resurvey of

3rd Standard Parallel N. through R. 13 E.

Chains

Continue E. on a random line along the S. bdy. of sec. 33.

40.00 Set temp. cor. No trace of old cor. is found.

January 7, 1915. At this cor. I set off 22° 25' S. on decl. arc, and at apparent noon observe the sun on the meridian, the resulting lat. is 32° 5' which is the proper lat.

80.00 Set temp. cor. No trace of old cor. is found.

Continue E. on a random line along S. bdy. of sec. 34.

40.00 Set temp. 1/4 sec. cor. No trace of old cor. is found.

80.00 Set temp. cor. No trace of old cor. is found.

Continue E. on a random line along S. bdy. of sec. 35.

40.00 Set temp. 1/4 sec. cor. No trace of old cor. is found.

82.47 Fall 15 lks. N. of point for the S. C. of secs. 35 and 36.

I find the two NE. trees properly blazed (but no marks visible) agreeing in bearing and distance. From these two trees I locate point which falls on top of small mound, which I dig into and find traces of decayed wood. From this point, S. 69° E. 63 lks. dist., (the reported bearing and dist. of old SE. tree) locate a depression in which are the roots of an old tree, therefore, I conclude that I have the correct point for S. C. of secs. 35 and 36.

From which an old

Palo Verde 5 ins. dia., brs. N. 29 1/2° E., 52 lks. dist., (properly blazed).

Palo Verde 6 ins. dia., brs. N. 82 1/2° E., 54 lks. dist., (properly blazed).

Roots in depression bear S. 69° E. 63 lks. dist.

(Therefore, bearing from the Standard 1/4 sec. cor. of sec. 35, Tp. 15 S. R. 13 E. to the S. C. of secs. 35 and 36, T. 15 S., R. 14 E., will be S. 89° 59' E., and length of miles will be 80.38 chs.)

January 7, 1915.

January 8, 1915. At 8h a.m., l.m.t., I set off 32° 5' on lat. arc, and 22° 17' S. on decl. arc, and determine a meridian with the solar at the Standard 1/4 sec. cor. of sec. 35.

Thence I run

## 3rd Standard Parallel N. through R. 13 E.

## Chains

S. 89° 59' E. on a true line along the S. bdy. of  
sec. 35. E.  $\frac{1}{2}$ .

Over level bottom land, through dense mesquite timber,  
mesquite brush and cat claw.

5.02 Set an iron post 1 in. dia. for the Standard 1/256  
sec. cor. of sec. 35, stamped on cap

S C 1/256 S 35 in N.  
1915 in S.

From which a

Mesquite 5 ins. dia., brs. N. 36 $\frac{1}{2}$ ° E., 70 lks. dist.,  
mkd. S C 1/256 S 35 B T.

Mesquite 5 ins. dia., brs. N. 45 $\frac{1}{4}$ ° W., 13 lks. dist.,  
mkd. S C 1/256 S 35 B T.

10.05 Set an iron post 1 in. dia. for the Standard 1/64  
sec. cor. of sec. 35, stamped on cap

S C 1/64 S 35 in N.  
1915 in S.

From which a

Mesquite 4 ins. dia., brs. N. 58 $\frac{1}{2}$ ° E. 34 lks. dist.,  
mkd. S C 1/64 S 35 B T.

Mesquite 5 ins. dia., brs. N. 57° W., 5 lks. dist.,  
mkd. S C 1/64 S 35 B T.

15.07 Set an iron post 1 in. dia., for the Standard 1/256  
sec. cor. of sec. 35, stamped on cap

S C 1/256 S 35 in N.  
1915 in S.

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

No B. T.s available.

20.09 Set an iron post 1 in. dia., for the Standard E. 1/16  
sec. cor. of sec. 35, stamped on cap

S C E 1/16 S 35 in N.  
1915 in S.

From which a

Mesquite 12 ins. dia., brs. N. 3 $\frac{1}{2}$ ° E., 61 lks. dist.,  
mkd. S C E 1/16 S 35 B T.

Mesquite 8 ins. dia., brs. N. 58 $\frac{1}{4}$ ° W., 39 lks. dist.,  
mkd. S C E 1/16 S 35 B T.

22.80 Wood road, brs. NW. & SE.

25.12 Set an iron post 1 in. dia., for the Standard 1/256  
sec. cor. of sec. 35, stamped on cap

S C 1/256 S 35 in N.  
1915 in S.

Resurvey of

BOOK 3418

3rd Standard Parallel N. through R. 13 E.

Chains

from which a

Mesquite 5 ins. dia., brs. N.  $24\frac{1}{2}^{\circ}$  E., 34 lks. dist.,  
mkd. S C  $1/256$  S 35 B T.

Mesquite 6 ins. dia., brs. N.  $7\frac{1}{4}^{\circ}$  W., 33 lks. dist.,  
mkd. S C  $1/256$  S 35 B T.

30.14 Set an iron post 1 in. dia., for the Standard  $1/64$   
sec. cor. of sec. 35, stamped in cap

S C  $1/64$  S 35 in N.  
1915 in S.

From which a

Mesquite 5 ins. dia., brs. N.  $80\frac{1}{2}^{\circ}$  W., 6 lks. dist.,  
mkd. S C  $1/64$  S 35 B T.

Mesquite 4 ins. dia., brs. N.  $0^{\circ} 30'$  W., 33 lks. dist.,  
mkd. S C  $1/64$  S 35 B T.

35.17 Set an iron post 1 in. dia., for the Standard  $1/256$   
sec. cor. of sec. 35, stamped in cap

S C  $1/256$  S 35 in N.  
1915 in S.

From which a

Mesquite 10 ins. dia., brs. N.  $73\frac{1}{4}^{\circ}$  E., 56 lks. dist.,  
mkd. S C  $1/256$  S 35 B T.

Mesquite 8 ins. dia., brs. N.  $13\frac{1}{2}^{\circ}$  W., 110 lks. dist.,  
mkd. S C  $1/256$  S 35 B T.

38.23 (Proportional dist.) For C. C. of secs. 1 and 2.

Set an iron post 2 ins dia., for the C. C. of secs.  
1 and 2, stamped in cap

T 15 S R 13 E S 35 in N.  
S 2 T 16 S in SW.  
S 1 R 13 E in SE.  
C C 1915 in S.

From which a

Mesquite 6 ins. dia., brs. S.  $37\frac{1}{4}^{\circ}$  E. 20 lks. dist.,  
mkd. T 16 S R 13 E S 1 C C B T.

Mesquite 6 ins. dia., brs.  $61\frac{1}{2}^{\circ}$  W. 121 lks. dist.,  
mkd. T 16 S R 13 E S 2 C C B T.

40.19 (Proportional dist.) for S. C. of secs. 35 and 36.

Set an iron post 3 ins. dia., for the S. C. of secs.  
35 and 36, stamped in cap

S C in N.  
T 15 S S 35 in NW.  
R 13 E S 36 in NE.  
1915 in S.

From which a

Mesquite 8 ins. dia., brs. N.  $4\frac{3}{4}^{\circ}$  E., 75 lks. dist.,  
mkd. T 15 S R 13 E S 36 S C B T.

Resurvey of

BOOK 3418

3rd Standard Parallel N. through R. 13 N.

Chains	<p>Mesquite 8 ins. dia., brs. N. 35° W., 13 lks. dist., mkd. T 15 S R 13 E S 36 S C B T.</p> <p>Land, level, bottom. Soil, 1st rate. Timber, Mesquite with mesquite brush and cat claw.</p>
5.02	<p>Thence</p> <p>S. 89° 59' E. on a true line along the S. bdy. of sec. 36.</p> <p>Over level bottom land, through dense mesquite timber, mesquite brush and cat claw.</p> <p>Set an iron post 1 in. dia., for the Standard 1/256 sec. cor. of sec. 36, stamped in cap</p> <p style="padding-left: 40px;">S C 1/256 S 36 in N. 1915 in S.</p> <p>From which a</p> <p>Mesquite 6 ins. dia., brs. S. 49° W., 43 lks. dist., mkd. S C 1/256 S 36 B T.</p> <p>(No other B. T.s available)</p> <p>Dig pits 18 x 18 x 12 ins. E. &amp; W. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N. of cor.</p>
5.80	<p>To left bank of E. channel of Rio Santa Cruz, cut bank 15 ft. high, course NW.</p> <p>Set an iron post 1 in. dia. for the <sup>Standard</sup> M. C. of sec. 36, stamped on cap</p> <p style="padding-left: 40px;">T 15 S R 13 E S 36 in NW. M C in E. 1915 in S.</p> <p>Dig pits 36 x 36 x 12 ins. 8 ft. W. of cor.; and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.</p> <p>(No B. T.s available.)</p>
8.92	<p>To right bank of E. channel of Rio Santa Cruz, cut bank 12 ft. high, course NW.</p> <p>Set an iron post 1 in. dia. for the Standard M. C. of sec. 36, stamped on cap</p> <p style="padding-left: 40px;">T 15 S R 13 E S 36 in NE. M C in W. 1915 in S.</p> <p>Dig pits 36 x 36 x 12 ins. 8 ft. E. of cor.; and raise a mound of earth 4 ft. base, 2 ft. high, E. of cor.</p> <p>(No B. T.s available.)</p>
10.05	<p>Set an iron post 1 in. dia. for the Standard 1/64 sec. cor. of sec. 36, stamped on cap</p>



Resurvey of  
3rd Standard Parallel N. through R. 13 E.

## Chains

S C 1/64 S 36 in N.  
1915 in S.

From which a

Mesquite 18 ins. dia., brs. N. 28° E., 103 lks. dist.,  
mkd. S C 1/64 S 36 B T.

Mesquite 8 ins. dia., brs. N. 75° W., 110 lks. dist.,  
mkd. S C 1/64 S 36 B T.

15.07 Set an iron post 1 in. dia. for the Standard 1/256  
sec. cor. of sec. 36, stamped on cap

S C 1/256 S 36 in N.  
1915 in S.

From which a

Mesquite 6 ins. dia., brs. N. 7° E., 80 lks. dist.,  
mkd. S C 1/256 S 36 B T.

Mesquite 18 ins. dia., brs. S. 5 lks. dist.,  
mkd. S C 1/256 S 1 B T.

Seeing that the point for the W. 1/16 sec. cor. of  
sec. 36, will fall in arroyo and impracticable to set,  
therefore, at

18.89 Set an iron post 1 in. dia. for the W. C. to the  
Standard W. 1/16 sec. cor. of sec. 36, stamped  
on cap

W C S C W 1/16 S 36 in N.  
1915 in S.

From which a

Mesquite 8 ins. dia., brs. N. 70½° E., 20 lks. dist.,  
mkd. W C S C W 1/16 S 36 B T.

Mesquite 15 ins. dia., brs. N. 67° W., 95 lks. dist.,  
mkd. W C S C W 1/16 S 36 B T.

20.09 True point for the Standard W. 1/16 sec. cor. of sec.  
36, falls in arroyo, 100 chs. wide, brs. N. 60° W.

24.70 Dim wood road, brs. NW. & SE.

24.62 Mesquite 24 ins. dia. on line marked for B. T.

25.12 Set an iron post 1 in. dia., for the Standard 1/256  
sec. cor. of sec. 36, stamped in cap

S C 1/256 S 36 in N.  
1915 in S.

From which a

Mesquite 24 ins. dia., brs. N. 83½° E., 45 lks. dist.,  
mkd. S C 1/256 S 36 B T.

Mesquite 24 ins. dia., brs. W. 50 lks. dist.,  
mkd. S C 1/256 S 36 B T.

Resurvey of

3rd Standard Parallel N. through R. 13 E.

Chains	
30.14	<p>Set an iron post 1 in. dia. for the Standard 1/64 sec. cor. of sec. 36, stamped on cap</p> <p style="text-align: center;">S C 1/64 S 36 in N. 1915 in S.</p> <p>Dig pits 18 x 18 x 12 ins. E. &amp; W. of cor. 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high, N. of cor.</p> <p>(No suitable B. T.s available.)</p>
35.17	<p>Set an iron post 1 in. dia. for the Standard 1/256 sec. cor. of sec. 36, stamped on cap.</p> <p style="text-align: center;">S C 1/256 S 36 in N. 1915 in S.</p> <p>From which a</p> <p>Mesquite 5 ins. dia., brs. N. 32° E., 79 lks. dist., mkd. S C 1/256 S 36 B T.</p> <p>Mesquite 5 ins. dia., brs. N. 59½° W., 70 lks. dist., mkd. S C 1/256 S 36 B T.</p>
40.19	<p>Set an iron post 1 in. dia., for the Standard ¼ sec. cor. of sec. 36, stamped on cap</p> <p style="text-align: center;">S C ¼ S 36 in N. 1915 in S.</p> <p>From which a</p> <p>Mesquite 30 ins. dia., brs. N. 65¼° W., 111 lks. dist., mkd. S C ¼ S 36 B T.</p> <p>Mesquite 15 ins. dia., brs. <sup>N.</sup> 41¼° W., 114 lks. dist., mkd. S C ¼ S 36 B T.</p>
54.20	<p>Wood road, brs. NW. &amp; SE.</p>
60.40	<p>Brush fence, brs. N. &amp; S.</p>
77.76	<p>Falls 78 lks. S. of point for old C. C. of secs. 1 and 6, as established from B. T.s. For description and establishment of same see notes of "E. bdy. of T. 16 S., R. 13 E."</p>
78.20	<p>Fence, brs. N. &amp; S. Leave dense mesquite and brush.</p> <p>Enter cultivated land.</p>
80.38	<p>(Proportional dist.) for the S. C. of T. 15 S., Rs. 13 and 14 E.</p> <p>Set an iron post 3 ins. dia., stamped on cap</p> <p style="text-align: center;">S C T 15 S in N. R 13 E S 36 in NW. R 14 E S 31 in NE. 1915 in S.</p> <p>From which a</p> <p>Mesquite 6 ins. dia., brs. N. 21¼° E., 282 lks. dist., mkd. S C T 15 S R 14 E S 31 B T.</p> <p>Mesquite 8 ins. dia., brs. N. 41° W., 271 lks. dist.; mkd. S C T 15 S R 13 E S 36 B T.</p> <p style="text-align: right;">January 8, 1915.</p>

## Chains

May 24, 1915. At 8h a.m., l.m.t., I set off  $32^{\circ} 5'$  on lat. arc, and  $20^{\circ} 8'$  N. on decl. arc, and determine a meridian with the solar at the S. C. of tps. 15 and 16 S., Rs. 12 and 13 E., previously described.

Thence W. on a random line.

40.76 Falls 52 lks. S. of old Standard  $\frac{1}{4}$  sec. cor. of sec. 36.

Returning to the standard tp. cor.  
Thence I run

N.  $89^{\circ} 16'$  W. on a true line along the S. bdy. of of sec. 36, ascending steep SE. slope, through scattering Palo Verde and giant cacti.

10.90 Top of ascent, brs. NE. & SW. Desc.

20.94 Falls 27 lks. N. of Chillson's old  $1/16$  sec. cor., which is a malpais 10 x 12 x 14 ins. in a mound of stone mkd., S C  $1/16$  on N.

26.00 Foot of steep descent; drain, course NW.

Thence gradual ascent.

32.70 Top of gradual ascent, brs. N. & S.

Thence gradual descent.

40.76 Intersect the old Standard  $\frac{1}{4}$  sec. cor. of sec. 36, which is a malpais 12 x 14 x 16 ins., set in a mound of stone, mkd. S C  $\frac{1}{4}$  on N. face.

N. and alongside set an iron post 1 in. dia. for the Standard  $\frac{1}{4}$  sec. cor. of sec. 36, stamped on cap

S C  $\frac{1}{4}$  S 36 in N.  
1915 in S.

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

Thence W. on a random line

39.78 Set temp. C. C. of secs. 1 and 2. No trace of old cor. is found.

40.01 Falls 2 lks. S. of the point for the S. C. of secs. 35 and 36, as established from old B. T.

Returning to Standard  $\frac{1}{4}$  sec. cor. of sec. 36

Thence N.  $89^{\circ} 58'$  W. on a true line along the S. bdy. of sec. 36, gradually descending through giant cacti, scattering mesquite, palo verde and greasewood.

10.00 Foot of gradual descent, brs. N. & S.

Thence over level land.

20.06 Falls 47 lks. N. of Chillson's old  $1/16$  sec. cor., which is a malpais 12 x 14 x 16 ins. in a mound of stone, mkd. S C  $1/16$  on N. face.

Resurvey of

3rd Standard Parallel S. through R. 12 E.

Chains	
25.00	Wash, 20 lks. wide, course N.
34.00	Old road, brs. N. & S.
39.79	(Proportional dist.) for the C. C. of secs. 1 and 2.
	Set an iron post 2 ins. dia., stamped on cap
	<p style="text-align: center;">T 15 S R 12 E S 36 in N.  S 2 T 16 S in SW.  S 1 R 12 E in SE.  C C 1915 in S.</p>
	From which a
	Mesquite 5 ins. dia., brs. S. 48 $\frac{1}{2}$ ° E., 108 lks. dist., mkd. C C S 1 T 16 S R 12 E B T.
	Mesquite 6 ins. dia., brs. S. 30° W., 2.64 chs. dist., mkd., C C S 2 T 16 S R 12 E B T.
40.01	Intersect point for the S. C. of secs. 35 and 36.
	Set 3 in. iron post, stamped on cap
	<p style="text-align: center;">S C in N.  T 15 S S 35 in NW.  R 12 E S 36 in NE.  1915 in S.</p>
	From which the old bearing tree marked as described is a
	Mesquite 8 ins. dia., brs. S. 38° 45' W. 130 lks. dist.
	(No other B. T.s available)
	Dig pits 24 x 18 x 12 ins., crosswise on each line, E. & W., 3 ft. and N. of post 7 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high, N. of cor.
	Land, mountainous, 50.76 chs.; rolling and broken 30.01 chs.
	Soil, rocky and 4th rate, 50.76 chs.; 3rd rate 30.01 chs. Timber, scattering mesquite, palo verde, 40.01 chs. and giant cacti and greasewood 80.77 chs.
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	Thence W. on a random line along the S. bdy. of sec. 35.
40.00	Set temp. $\frac{1}{4}$ sec. cor. No trace of old cor. is found.
79.66	Set temp. C. C. No trace of old cor. is found.
80.00	Set temp. S. C. No trace of old cor. is found.
-----	
	Thence W. on a random line along the S. bdy of sec. 34
40.00	Set temp. $\frac{1}{4}$ sec. cor. No trace of old cor. is found.
79.69	Set temp. C. C. No trace of old cor. is found.

Resurvey of

3rd Standard Parallel S. through R. 12 E.

Chains	<p>80.00 Set temp. S. C. No trace of old cor. is found.</p> <p>May 24, 1915. At this cor. I set off 20° 41' N. on decl. arc, and at apparent noon, observe the sun on the meridian. The resulting lat. is 32° 5' which is the proper lat.</p>
40.00	<p>Thence W. on a random line along the S. bdy. of sec. 33.</p> <p>Set temp. <math>\frac{1}{4}</math> sec. cor. No trace of old cor. is found.</p>
79.58	<p>Set temp. C. C., the old C. C., a post 4 ins. square, mkd. as described, was found on top of ground in this vicinity.</p>
80.00	<p>Set temp. S. C. No trace of old cor. is found.</p>
40.00	<p>Thence W. on a random line along the S. bdy. of sec. 32.</p> <p>Set temp. <math>\frac{1}{4}</math> sec. cor. No trace of old cor. is found.</p>
79.58	<p>Set temp. C. C. The old cor., a post 4 ins. square, mkd. as described was found on top of ground in this vicinity.</p>
80.00	<p>Set temp. S. C. No trace of old cor. is found.</p>
40.00	<p>Thence W. on a random line along the S. bdy of sec. 31.</p> <p>Set temp. <math>\frac{1}{4}</math> sec. cor. No trace of old cor. is found.</p>
79.20	<p>Falls 1.39 chs. N. of the old S. C. tp. 15 S., Rs. 11 and 12 E.</p> <p>(Therefore, bearing from S. C. 35 and 36 to Standard tp. cor., will be S. 89° 48' W., and length of miles = 79.84 chs.)</p>
	<p>May 24, 1915.</p>
7.40	<p>May 25, 1915. At 8h a.m., l.m.t., I set off 32° 5' on lat. arc, and 20° 50' N. on decl. arc, and determine a meridian with the solar at the S. C. of secs. 35 and 36, previously described.</p> <p>Thence I run</p> <p>S. 89° 48' W. on a true line along the S. bdy. of sec. 35.</p> <p>Over level land, sloping gently towards the N.; through scattering mesquite and palo verde, greasewood and cacti.</p>
39.92	<p>Road, brs. N. &amp; S.</p>

## Resurvey of

## 3rd Standard Parallel S. through R. 12 E.

## Chains

39.92

(Proportional dist.) for the Standard  $\frac{1}{4}$  sec. cor. of sec. 35.

Set an iron post 1 in. dia., stamped on cap

S C  $\frac{1}{4}$  S 35 in N.  
1915 in S.

From which I take the new trees

Mesquite 8 ins. dia., brs. N.  $41\frac{1}{2}^{\circ}$  E., 3.15 chs. dist.,  
mkd. S C  $\frac{1}{4}$  S 35 B T.

Palo Verde 6 ins. dia., brs. N.  $77\frac{3}{4}^{\circ}$  W., 1.00 chs. dist.,  
mkd. S C  $\frac{1}{4}$  S 35 B T.

79.50

Proportional dist. for the C. C. of secs. 2 and 3.

Set an iron post 2 ins. dia., stamped in cap

T 15 S R 12 E S 35 in N.  
S 3 T 16 S in SW.  
S 2 R 12 E in SE.  
C C 1915 in S.

From which I take the new trees

Mesquite 12 ins. dia., brs. S.  $56^{\circ}$  W., 80 lks. dist.,  
mkd. C C S 3 T 16 S R 12 E B T.

Mesquite 10 ins. dia., brs. S.  $68\frac{1}{2}^{\circ}$  W., 2.38 chs. dist.,  
mkd. C C S 3 T 16 S R 12 E B T.

79.84

Proportional dist. for the S. C. of secs. 34 and 35.

Set an iron post 3 ins. dia., stamped in cap

S C in N.  
T 15 S S 34 in NW.  
R 12 E S 35 in NE.  
1915 in S.

From which I take the new trees

Mesquite 5 ins. dia., brs. N.  $10^{\circ}$  E., 1.10 chs. dist.,  
mkd. T 15 S R 12 E S 35 S C B T.

Mesquite 7 ins. dia., brs. N.  $51\frac{1}{4}^{\circ}$  W., 1.94 chs. dist.,  
mkd. T 15 S R 12 E S 34 S C B T.

Land, level.

Soil, 2nd rate and sandy.

Timber, scattering mesquite and palo verde, 79.84 chs.,  
and greasewood and cacti 79.84.

Continue S.  $89^{\circ}$  48' W. on a true line along the S. bdy.  
of sec. 34.

Over level land, sloping gently toward the N.

Through scattering mesquite, palo verde, greasewood  
and cacti.

Resurvey of

3 rd Standard Parallel S. through R. 12 E.

Chains

15.20 Wash, 20 lks. wide, course NE.

39.92 Proportional dist. for the Standard  $\frac{1}{4}$  sec. cor. of sec. 34.  
 Set an iron post 1 in. dia., stamped in cap  
 S C  $\frac{1}{4}$  S 34 in N.  
 1915 in S.  
 From which I take the new trees  
 Palo verde 6 ins. dia., brs. N.  $29\frac{1}{2}^{\circ}$  E., 102 lks. dist.,  
 mkd. S C  $\frac{1}{4}$  S 34 B T.  
 Palo verde 6 ins. dia., brs. N.  $44\frac{1}{2}^{\circ}$  W., 87 lks. dist.,  
 mkd. S. C.  $\frac{1}{4}$  S 34 B T.

68.20 Wash, 20 lks. wide, course N.  $15^{\circ}$  E.

74.70 Wash, 20 lks. wide, course N.  $20^{\circ}$  E.

79.53 Proportional dist. for the C. C. of secs. 3 and 4.  
 Set an iron post 2 ins. dia., stamped in cap  
 T 15 S R 12 E S 34 in N.  
 S 4 T 16 S in SW.  
 S 3 R 12 E in SE.  
 C C 1915 in S.  
 From which I take the new trees  
 Palo verde 10 ins. dia., brs. S.  $8\frac{1}{2}^{\circ}$  E., 208 lks. dist.,  
 mkd. T 16 S R 12 E S 3 C C B T.  
 Palo verde 8 ins. dia., brs. S.  $4\frac{1}{2}^{\circ}$  W., 89 lks. dist.,  
 mkd. T 16 S R 12 E S 4 C C B T.

79.84 Proportional dist. for the S. C. of secs. 33 and 34.  
 Set an iron post 3 ins. dia., stamped in cap  
 S C in N.  
 T 15 S S 33 in NW.  
 R 12 E S 34 in NE.  
 1915 in S.  
 From which I take the new trees  
 Mesquite 12 ins. dia., brs. N.  $42^{\circ}$  E. 1,77 chs. dist.,  
 mkd. T 15 S R 12 E S 34 S C B T.  
 Mesquite 8 ins. dia., brs. N.  $26\frac{3}{4}^{\circ}$  W., 1.03 chs. dist.,  
 mkd. T 15 S R 12 E S 33 S C B T.  
 Land, level.  
 Soil, 2nd rate and sandy.  
 Timber, mesquite and palo verde, 79.84 chs., and  
 greasewood and cacti, 79.84 chs.

Continue S.  $89^{\circ} 48'$  W. on a true line along S. bdy.  
 of sec. 33.

Over level land, sloping gently towards N.

Resurvey of

3rd Standard Parallel S. through R. 12 E.

Chains

Through mesquite and palo verde, greasewood and cacti.

3.30 Wash, 10 lks. wide, course N.

13.90 Wash, 30 lks. wide, course N.

35.00 Wash, 40 lks. wide, course N.

39.92 Proportional dist. for the Standard  $\frac{1}{4}$  sec. cor. of sec. 33.

Set an iron post 1 in. dia., stamped on cap

S C  $\frac{1}{4}$  S 33 in N.  
1915 in S.

From which I take the new trees -

Mesquite 6 ins. dia., brs. N.  $5\frac{1}{2}^{\circ}$  E., 22 lks. dist.;  
mkd. S C  $\frac{1}{4}$  S 33 B T.

Mesquite 6 ins. dia., brs. N.  $66^{\circ}$  W., 32 lks. dist.,  
mkd. S C  $\frac{1}{4}$  S 33 B T.

50.00 Wash, 20 lks. wide, course N.

60.00 Wash, 20 lks. wide, course N.

68.10 Wash, 10 lks. wide, course N.

72.70 Road, brs. N. & S.

79.49 Proportional dist. for the C. C. of secs. 4 and 5.

Set an iron post 2 ins. dia., stamped on cap

T 15 S R 12 E S 33 in N.  
S 5 T 16 S in SW.  
S 4 R 12 E in SE.  
C C 1915 in S.

From which I take the new trees -

Mesquite 7 ins. dia., <sup>brs.</sup> S.  $75^{\circ}$  E., 1.73 chs. dist.,  
mkd. T 16 S R 12 E S 4 C C B T.

Mesquite 8 ins. dia., brs. S.  $36\frac{1}{4}^{\circ}$  W., 1.25 chs. dist.,  
mkd. T 16 S R 12 E S 5 C C B T.

79.84 Proportional dist. for the S. C. of secs. 32 and 33.

Set an iron post 3 ins. dia., stamped on cap

S C in N.  
T 15 S S 32 in NW.  
R 12 E S 33 in NE.  
1915 in S.

From which I take the new trees

Palo verde 8 ins. dia., brs. N.  $68\frac{1}{4}^{\circ}$  E., 1.10 chs. dist.,  
mkd. T 15 S R 12 E S 33 S C B T.

Palo verde 12 ins. dia., brs. N.  $29^{\circ}$  W., .92 chs. dist.,  
mkd. T 15 S R 12 E S 32 S C B T.

Land, level,  
Soil, 2nd rate and sandy.  
Timber, mesquite and palo verde 79.84 chs.; grease-  
wood and cacti 79.84 chs.



Resurvey of

3rd Standard Parallel S. through R. 12 E.

Chains

May 25, 1915. At this cor. I set off 20° 52' N. on decl. arc, and at apparent noon observe the sun on the meridian. The resulting lat. is 32° 5' which is the proper lat.

Continue S. 89° 48' W. on a true line along the S. bdy. of sec. 32.

Over level land, sloping gently towards N. Through mesquite and palo verde, greasewood and cactus.

7.60 Road, brs. N. 60° E. and S. 60° W.

27.40 Wash, 50 lks. wide, course N.

39.92 Proportional dist. for the Standard 1/4 sec. cor. of sec. 32.

Set an iron post 1 in. dia., stamped on cap

S C 1/4 S 32 in N.  
1915 in S.

From which I take the new tree

Palo verde 6 ins. dia., N. 45° W., .03 chs. dist., mkd. S C 1/4 S 32 B T.

(No other suitable B. T.s available.)

Dig pits 18 x 18 x 12 ins. E. & W. of cor. 3 ft. dist.; and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

46.40 Wash, 40 lks. wide, course N. 15° W.

79.42 Proportional dist. for the C. C. of secs. 5 and 6.

Set an iron post 2" dia., stamped on cap

T 15 S R 12 E S 32 in N.  
S 6 T 16 S in SW.  
S 5 R 12 E in SE.  
C C 1915 in S.

From which I take the new trees

Palo verde 4 ins. dia., brs. S. 15° E., 52 lks. dist., mkd. T 16 S R 12 E S 5 C C B T.

Mesquite 8 ins. dia., brs. S. 38° W., 253 lks. dist.; mkd. T 16 S R 12 E S 6 C C B T.

79.84 Proportional dist. for the S. C. of secs. 31 and 32.

Set an iron post 3 ins. dia., stamped on cap

S C in N.  
T 15 S S 31 in NW.  
R 12 E S 32 in NE.  
1915 in S.

Resurvey of

3rd Standard Parallel S. through R. 12 E.

Chains

(No bearing trees available.)

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

Land, level.

Soil, 2nd rate and sandy.

Timber, mesquite and palo verde 79.84 chs.; greasewood and cactus 79.84 chs.

Continue S. 89° 48' W. on a true line along the S. bdy. of sec. 31.

Over level land, sloping gently towards N.

Through mesquite and palo verde, greasewood and cactus.

39.92 Proportional dist. for the Standard 1/4 sec. cor. of sec. 31.

Set an iron post 1" dia. stamped on cap

S C 1/4 S 31 in N.  
1915 in S.

From which I take the new trees

Mesquite 5 ins. dia., brs. N. 57 1/4° E., 93 lks. dist., mkd. S C 1/4 S 31 B T.

palo verde 6 ins. dia., brs. N. 89 1/2° W., 93 lks. dist., mkd. S C 1/4 S 31 B T.

53.60 Wash, 20 lks. wide, course NW.

79.13 Proportional dist. for the C. C. T. 16 S., Rs. 11 and 12 E.

Set an iron post 3 ins. dia., stamped on cap

T 15 S R 12 E S 31 in N.  
S 1 R 11 E in SW.  
S 6 R 12 E in SE.  
T 16 S C C 1915 in S.

From which I take the new trees -

Palo verde 8 ins. dia., brs. S. 18 1/4° E., 130 lks. dist., mkd. T 16 S R 12 E S 6 C C B T.

Palo verde 6 ins. dia., brs. S. 6 1/4° W., 111 lks. dist., mkd. T 16 S R 12 E S 1 C C B T.

79.84 Intersect the old S. C. T. 15 S., Rs. 11 and 12 E., which is a mesquite post 4 ins. square, well set and mkd.

S C T XV S on N.  
R XII E S XXXI on E.  
R XI E S XXXVI on W.

Resurvey of

3rd Standard Parallel S. through R 12 E.

Chains

N. and alongside of which I set an iron post 3 ins. dia., stamped on cap

S C T 15 S in N.  
R 11 E S 36 in NW.  
R 12 E S 31 in NE.  
1915 in S.

From which I take the new trees

Palo verde 6 ins. dia., brs. N. 12° E., 47 lks. dist., mkd. T 15 S R 12 E S 31 S C B T.

Palo verde 6 ins. dia., brs. N. 36¼° W., 197 lks. dist., mkd. T 15 S R 11 E S 36 S C B T.

Land, level.  
Soil, 2nd rate and sandy.  
Timber, mesquite and palo verde 79.84 chs.; greasewood and cactus 79.84 chs.

May 25, 1915.

Resurvey of

3rd Standard Parallel S. through R. 11 E.

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June 28, 1915. At 8h a.m., l.m.t., I set off 32° 5' on lat. arc, and 23° 20' N. on decl. arc, and determine a meridian with the solar at S. C. T. 15 S., Rs. 11 and 12 E., previously described.

Thence W. on a random line.

40.00 Set temp. ¼ sec. cor. No trace of old cor is found.

79.36 Set temp. C. C. of secs. 1 and 2. No trace of old cor. is found.

80.30 Falls 23 lks. S. of point for S. C. of secs. 35 and 36, as established from old B. T.s

Returning to the S. C. of T. 15 S., Rs. 11 and 12 E.

Thence I run

N. 89° 50' W. on a true line along the S. bdy. of sec. 36.

Over level land, gently sloping towards N.

Through mesquite and palo verde, greasewood and cactus.

40.15 Proportional dist. for the Standard ¼ sec. cor. of sec. 36.

Set an iron post 1 in. dia., stamped on cap

S C ¼ S 36 in N.  
1915 in S.

Resurvey of

BOOK 3418

3rd Standard Parallel S. through R. 11 E.

Chains

From which I take new trees

Palo verde 6 ins. dia., brs. <sup>N.</sup> 56½° E., 88 lks. dist.,  
mkd. S C ¼ S 36 B T.

Mesquite 5 ins. dia., brs. N. 53½° W., 173 lks. dist.,  
mkd. S C ¼ S 36 B T.

79.66

Proportional dist. for the C. C. of secs. 1 and 2.

Set an iron post 2 ins. dia., stamped on cap

T 15 N R 11 E S 36 in N.  
S 2 T 16 S in SW.  
S 1 R 11 E in SE.  
C C 1915 in S.

From which I take new trees

Palo verde 6 ins. dia., brs. S. 38½° E., 96 lks. dist.,  
mkd. T 16 S R 11 E S 1 C C B T.

Mesquite 8 ins. dia., brs. S. 50½° W., 39 lks. dist.,  
mkd. T 16 S R 11 E S 2 C C B T.

80.30

Intersect point for the S. C. of secs. 35 and 36,  
where I

Set an iron post 3 ins. dia. stamped on cap

S C in N.  
T 15 S S 35 in NW.  
R 11 E S 36 in NE.  
1915 in S.

From which the old B. T. a

Mesquite 10 ins. dia., brs. N. 50° E., 60 lks. dist.,  
mkd. "XXXVI"

To further perpetuate this cor. I take a new tree

Palo verde 6 ins. dia., brs. N. 28½° W., 159 lks. dist.,  
mkd. T 15 S R 11 E S 35 S C B T.

Land, level.

Soil, 2nd rate and sandy.

Timber, mesquite and palo verde 80.30 chs., cactus,  
mesquite and palo verde brush, 80.30 chs.

40.09

Thence W. on a random line along the S. bdy. of sec. 35.

Falls 12 lks. S. of the old Standard ¼ sec. cor. of  
sec. 35.

Returning to the S. C. of secs. 35 and 36

Thence I run

N. 89° 50' W. on a true line along the S. bdy. of  
sec. 35.

Over level land, sloping gently towards N.

Resurvey of

BOOK 3418

3rd Standard Parallel S. through R. 11 E.

Chairs

Through mesquite and palo verde, cactus, mesquite and palo verde brush.

31.80

Wash, 30 lks. wide, course N. 15° W.

40.09

Intersect the old Standard 1/4 sec. cor. of sec. 35, which is a mesquite post 3 ins. square, well set and plainly mkd. "S C 1/4".

N. and alongside set an iron post 1 in. dia., stamped on cap

S C 1/4 S 35 in N.  
1915 in S.

From which I take the new trees

Mesquite 4 ins. dia., brs. N. 18 1/4° E., 179 lks. dist., mkd. S C 1/4 S 35 B T.

Mesquite 12 ins. dia., brs. S. 23 1/2° W., 17 lks. dist., mkd. S C 1/4 S 2 B T.

June 28, 1915. At this cor. I set off 23° 19' N. on decl. arc, and at apparent noon, observe the sun on the meridian. The resulting lat. is 32° 5' which is the proper lat.

Thence W. on a random line

39.28

Set temp. C. C. of secs. 2 and 3. No trace of old cor. is found.

40.00

Set temp. S. C. of secs. 34 and 35. No trace of old cor. is found.

Continue W. on a random line

40.00

Set temp. Standard 1/4 sec. cor. of sec. 34.

80.11

Falls 2.62 chs. N. of the old C. C. of secs. 3 and 4.

80.45

Falls 2.62 chs. N. of the old S. C. of secs. 33 and 34.

(Therefore, bearing from the Standard 1/4 sec. cor. of sec. 35, to the S. C. of secs. 33 and 34 will be S. 88° 45' W. and lengths of mile = 80.32 chs.)

Returning to the Standard 1/4 sec. cor. of sec. 35,

Thence I run

S. 88° 45' W. on a true line along the S. bdy. of sec. 35.

Over level land, sloping gently towards N.

Through mesquite and palo verde, cactus, mesquite and palo verde brush.

Resurvey of

3rd Standard Parallel S., through R. 11 E.

Chains

18.20 Wash, 50 lks. wide, course N.

39.44 Proportional dist. for the C. C. of secs. 2 and 3.  
 Set an iron post 2 ins. dia., stamped on cap  
 T 15 S R 11 E S 35 in N.  
 S 3 T 16 S in SW.  
 S 2 R 11 E in SE.  
 C C 1915 in S.

From which I take the new trees

Mesquite 6 ins. dia., brs. S.  $31\frac{1}{4}^{\circ}$  E., 125 lks. dist.,  
 mkd. T 16 S R 11 E S 2 C C B T.

Palo verde 5 ins. dia., brs. S.  $22\frac{1}{4}^{\circ}$  W., 45 lks. dist.,  
 mkd. T 16 S R 11 E S 3 C C B T.

40.16 Proportional dist. for the S. C. of secs. 34 and 35.  
 Set an iron post 3 ins. dia., stamped on cap  
 S C in N.  
 T 15 S S 34 in NW.  
 R 11 E S 35 in NE.  
 1915 in S.

(No suitable bearing trees available.)

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

Land, level.  
 Soil, 2nd rate and sandy.  
 Timber, mesquite and palo verde; cactus, palo verde  
 and mesquite brush.

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Continue S.  $88^{\circ} 45'$  W. on a true line along the S.  
 bdy of sec. 34.

Over level land, gently sloping towards N.

Through mesquite and palo verde, cactus, mesquite  
 and palo verde brush.

6.50 Wash, 20 lks. wide, course N.

13.20 Wash, 30 lks. wide, course N.

40.16 Proportional dist. for the Standard  $\frac{1}{4}$  sec. cor. of  
 sec. 34.  
 Set an iron post 1 in. dia., stamped on cap  
 S C  $\frac{1}{4}$  S 34 in N.  
 1915 in S.

From which I take the new trees

Mesquite 12 ins. dia., brs. S.  $63\frac{1}{4}^{\circ}$  E., 54 lks. dist.,  
 mkd. S C  $\frac{1}{4}$  S 3 B T.

Mesquite 5 ins. dia., brs. N.  $8\frac{1}{2}^{\circ}$  W., 209 lks. dist.,  
 mkd. S C  $\frac{1}{4}$  S 34 B T.

Resurvey of

3rd Standard Parallel S., through R. 11 E.

Chains

79.98

Intersect the old C. C. of secs. 3 and 4, which is a mesquite post 4 ins. long, well set and plainly mkd.,

C C T XVI S R XI E on S.  
S III on E.  
S IV on W.

N. and alongside of which I set an iron post 3 ins. dia., stamped on cap

T 15 S R 11 E S 34 in N.  
S 4 T 16 S in SW.  
S 3 R 11 E P I R in SE.  
C C 1915 in S.

No B. T.s available.

Dig pits 24 x 18 x 12 ins., crosswise on each line, E. & 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.

80.32

Intersect the S. C. of secs. 33 and 34, which is a post 4 ins. square, well set and plainly mkd.

S C T XV S R XI on N.  
S XXXIV on E.  
S XXXIII on W.

N. and alongside set an iron post 3 ins. dia., stamped on cap

S C in N.  
T 15 S S 33 in NW.  
R 11 E P I R S 34 in NE.  
1915 in S.

(No bearing trees available.)

Dig pits 24 x 18 x 12 ins., crosswise on each line, E. & W. 3 ft. and N. of post 7 ft. dist.; and raise amount of earth 4 ft. base, 2 ft. high, N. of cor.

Land, level.

Soil, 2nd rate and sandy.

Timber, mesquite and palo verde 80.32 chs.; cactus, mesquite and palo verde brush 80.32 chs.

June 28, 1915.

C. M. Leedy,

U. S. Surveyor.

Denver, Colo., *June 27-1916*

I hereby certify that the resurvey of the 3rd Standard Parallel N., through Rgs. 11, 12 and 13 E., Arizona, was made under my supervision and direction, and to the best of my knowledge and belief the field work was executed in strict accordance with instructions given me dated Oct. 6, 1914, and the Manual of Surveying Instructions, and that these field notes are a correct representation thereof.

*A. F. Dunnington*

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Topographer in Charge of  
Indian Surveys.



## CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,  
**Charles M. Leedy**, U. S. Surveyor, during the periods and in the capacities  
 stated opposite our several signatures, in <sup>re</sup> surveying all those parts or portions of

Papago Indian Reservation, within T. 15 S., R. 11 E.,

T. 15 S., R. 12 E., T. 15 S., R. 13 E., T. 16 S., R. 11 E.,

T. 16 S., R. 12 E., T. 16 S., R. 13 E.,

of the **Gila & Salt River** Meridian, in the State of **Arizona**

which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	
Edward Anderson	Dec. 30, 1914	July 20, 1915	Chainman
Chas. N. Bowman	Jan. 1, 1915	July 20, 1915	Chainman
Ira Spears	Dec. 30, 1914	March 26, 1915	Axeman
E. M. Fenton	Dec. 30, 1914	June 3, 1915	Moundman
Myron Leedy	Jan. 1, 1915	July 20, 1915	Flagman
Lewis R. Marsh	Dec. 19, 1915	June 20, 1915	Teamster
E. K. Blair	March 27, 1915	July 20, 1915	Axeman & Moundman
L. Minser	July 7, 1915	July 20, 1915	Moundman

Subscribed and certified to before me on the dates of the final service as shown above.

**Charles M. Leedy**

U. S. Surveyor.

FINAL OATH OF UNITED STATES SURVEYOR.

I, Charles M. Leedy, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the Commissioner of the General Land Office by A.F. Dunnington, Topographer in Charge of Indian Surveys bearing date of the 6th day of October, 1914, 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 Resurvey of Papago Indian Reservation, within T. 15 S., R. 11 E., T. 15 S., R. 12 E., T. 15 S., R. 13 E., T. 16 S., R. 11 E., T. 16 S., R. 12 E., T. 16 S., R. 13 E., of the Gila and Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the Commissioner of the General Land Office and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Charles M. Leedy

~~U. S. Surveyor.~~  
U. S. Surveyor.

Subscribed by said Charles M. Leedy, and sworn to before me }  
this 9th day of March, 1916

A. E. Stone

Circuit Clerk

Clinton County, Missouri



*7-9-16*

APPROVAL.

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

Washington, D.C., May 5, 1921

The foregoing field notes of the <sup>re</sup>survey of 3rd Standard Parallel N., through Rgs. 11, 12 and 13 E., within the Papago Indian Reservation, Arizona,

executed by C.M. Leedy, U.S. Surveyor, under direction of A.F. Dunnington, Topographer in Charge of Indian Surveys, under his special instructions dated Oct. 6, 1914, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

(Signed) William Spry

~~U. S. Surveyor General.~~  
Commissioner of the General Land Office

I certify that the foregoing transcript of the field notes of the above-described surveys in Papago Indian Res'n, Ariz., has been correctly copied from the original notes on file in this office.

*William Spry*  
~~U. S. Surveyor General.~~

Commissioner of the General Land Office