

2894

273

Book "D."  
4-679

BOOK 2894

Jan 5-1917

(Subdivisions)

# FIELD NOTES

OF THE SURVEY OF THE

PARTIAL SUBDIVISION

OF

TOWNSHIP 10 SOUTH, RANGE 3 EAST,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

W. H. Thorn, U.S. Surveyor,

and

W. K. Kierulff, U.S. Transitman.

~~In the capacity of U.S. Surveyor~~, under instructions dated July 29,, 1914,

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

Group No. 38, which were approved by the Commissioner of the General Land

Office, September 5,, 1914.

Survey commenced December 14,, 1914.

Survey completed December 31,, 1914.

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Revised under assignment  
Issued under dated Sept. 30, 1914.

2894

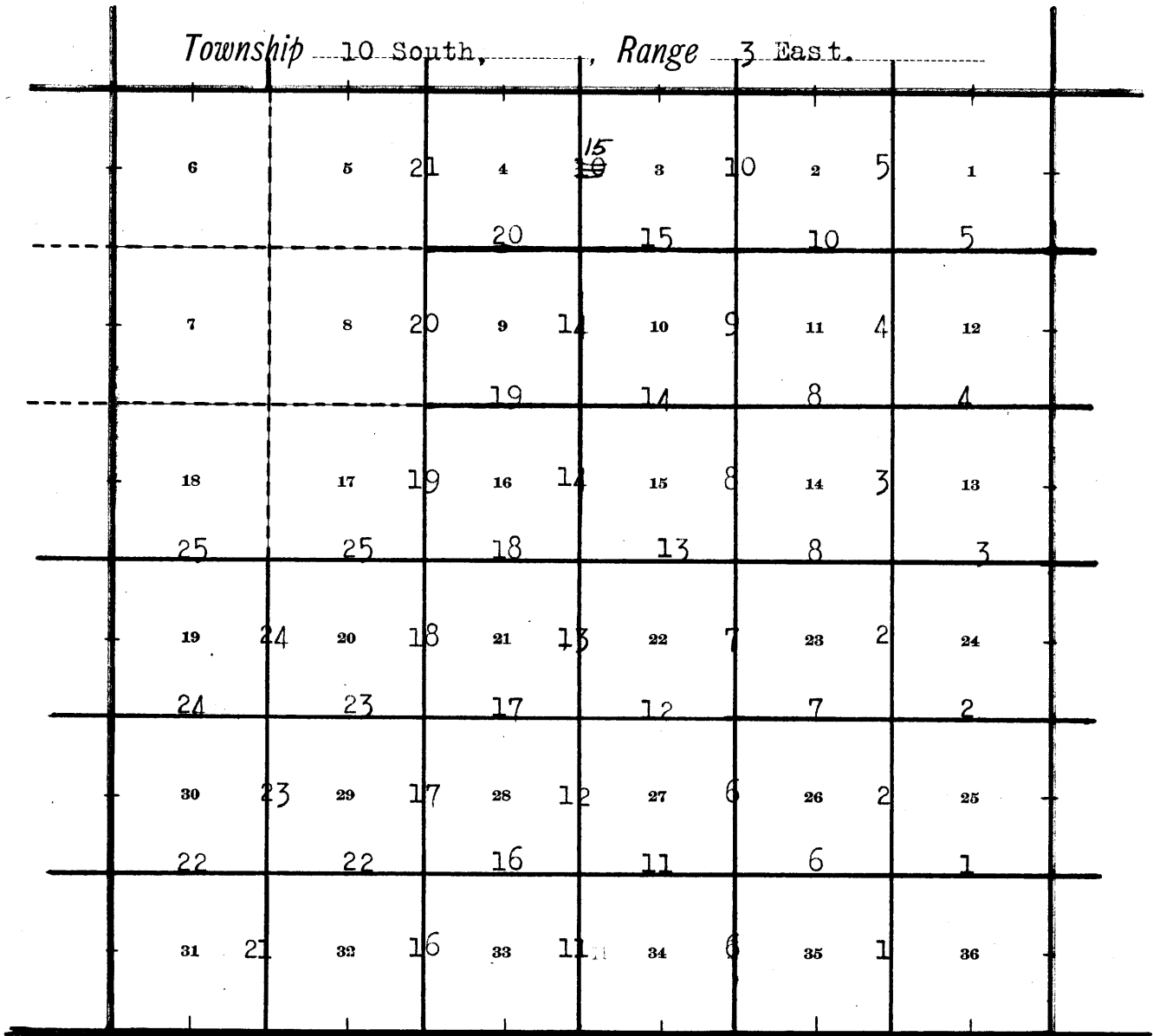
2894

1A

Book "D."  
 (Subdivision)  
 Group 38, Arizona.

ECCN 2894

INDEX DIAGRAM.



2ND. STANDARD PARALLEL SOUTH  
 RESURVEYED.

- Subdivision lines surveyed under this group.
- Standard lines - Notes in Book "A."
- Township bdrs. - Notes in Book "B."
- - - - -** Unsurveyed.

Partial subdivision of T.10 S., R.3 E.

Chains

In the following field notes the initials W.H.T and W.K.K. at the beginning and end of portions of the notes signify surveys executed by W.H.Thorn, U.S.Surveyor, and W.H.T.W.K.Kierulff, U.S.Transitman, respectively.

Survey commenced Dec. 28, 1914, and executed with a Young and Sons light mountain transit No. 8592 described in book "A".

Dec. 25, 1914, I examine the adjustments of the transit and correct the level and collimation errors. P.m. observations on a Polaris line, established by W.K.Kierulff, U.S.Transitman, at a point near camp, and an observation taken at 7h. 30m.a.m., 1 m.t., Dec. 26 on the test mer. indicate that the adjustments of the solar are correct; therefore I conclude that the adjustments of the transit and solar apparatus are satisfactory.

Dec. 28, 1914.

At 9h., a.m., 1.m.t., I set off 32° 30½' N. on the lat. arc; 23° 17' S. on the decl. arc. and determine a mer. with the solar at the Std.cor.of secs. 35 and 36 on S.bdy.of Tp.(2nd.Std.Parallel S.)reestablished by me, and described in Book "A." Thence I run,  
N. 0° 1' W. bet. secs. 35 and 36.

Over level land, through scattering timber and undergrowth.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec. cor. with brass cap mkd.  
¼ S 35 on W. and  
S 36 on E. half,  
1914 on S. rim.

Dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.

60.00 Road, brs. W. and S. 80° E.

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 25, 26, 35 and 36, with brass cap mkd.  
T.10 S R 3 E on N. half,  
S 25 in NE.  
S 36 in SE.  
S 35 in SW. and  
S 26 in NW. quadrants,  
1914 on S. rim.

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, 1st rate.  
Timber, very scattering mesquite,  
Undergrowth, greasewood brush.

40.00 East on a random line bet. secs. 25 and 36.

80.01 Set temp. ¼ sec. cor.  
Intersect E. bdy. of tps at cor. of secs. 25, 30, 31 and 36, reestablished by W.K.Kierulff, U.S.Transitman, and described in book "B."

Thence I run  
West on a true line bet. secs. 25 and 36.

40.00½ Over level land, through scattering undergrowth.  
Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec. cor. with brass cap mkd.  
¼ S 25 on N. and  
S 36 on S. half,  
1914 on S. rim.

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

80.01 Cor. of secs. 25, 26, 35 and 36.  
Land, level.  
Soil, sandy loam, 1st rate.  
Timber, very scattering mesquite.  
Undergrowth, greasewood brush, 4 to 6 ft. high.

2.

## Partial subdivision of T.10 S., R.3 E.

Chains

40.00	<p>N. 0° 1' W. bet. secs. 25 and 26. Over level land, through scattering greasewood brush. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for <math>\frac{1}{4}</math> sec. cor. with brass cap mkd. <math>\frac{1}{4}</math> S 26 on W. and S 25 on E. half, 1914 on S. rim.</p> <p>Dig pits 18 X 18 X 12 ins. N. and S. 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 W. of cor.</p>
80.00	<p>Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 23, 24, 25, and 26, with brass cap mkd. T-10 S R 3 E on N. half, S 24 in NE. S 25 in SE. S 26 in SW. and S 23 in NW. quadrants, 1914 on S. rim.</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. Soil, sandy loam, 1st rate. Timber, very scattering mesquite. Undergrowth, greasewood brush. At this cor. I set off 23° 17' S. on the decl. arc; and at apparent noon observe the sun on the mer. the resulting lat. is 32° 32' N.</p>
40.00	<p>East on a random line bet. secs. 24 and 25. Set temp. <math>\frac{1}{4}</math> sec. cor.</p>
80.08	<p>Intersect E. bdy. of tp. 1 lk. N. of cor. of secs. 19, 24, 25 and 30, as established by W.K. Kierulff, U.S. Transit-man, and described in book "B." Thence I run</p>
15.48	<p>West on a true line bet. secs. 24 and 25. Over level land, through greasewood brush. Old road, brs. S. 10° E. and N. 10° W.</p>
40.04	<p>Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for <math>\frac{1}{4}</math> sec. cor. with brass cap mkd. <math>\frac{1}{4}</math> S 24 on N. and S 25 on S. half, 1914 on S. rim.</p> <p>Dig pits 18 X 18 X 12 ins. E. and 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>
80.08	<p>Cor. of secs. 23, 24, 25 and 26. Land, level. Soil, sandy loam, 1st rate. Timber, scattering mesquite. Undergrowth, greasewood brush.</p>
40.00	<p>N. 0° 1' W. bet. secs. 23 and 24. Over level land, through greasewood brush. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for <math>\frac{1}{4}</math> sec. cor. with brass cap mkd. <math>\frac{1}{4}</math> S 23 on W. and S 24 on E. half, 1914 on S. rim.</p> <p>Dig pits 18 X 18 X 12 ins. N. and S. 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 W. of cor.</p>
80.00	<p>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, with brass cap mkd.</p>

Partial subdivision of T.10 S.R.3 E

Chains

T.10 S.R.3 E. on N. half;  
S.13 in NE.  
S.24 in SE.  
S.23 in SW. and  
S.14 in NW. quadrants, and  
1914 on S. rim.

No trees within limits.  
Dig pits 18 X 18 X 12 ins. in each sec. 5 1/2 ft. dist. and  
raise a mound of earth 4 ft. base 2 ft. high W. of cor.  
Land, level.  
Soil, sandy loam.  
Timber, scattering mesquite.  
Undergrowth; greasewood, 4 to 8 ft. high.

East, on a random line bet. secs. 13 and 24,

- 40.00 Set temp. 1/4 sec. cor.
- 80.05 Intersect E. bdy. of the tp. 4 lks. N. of the cor. of secs. 13, 18, 19 and 24 established by W.K.Kierulff, U.S. Transitman and described in book "B".  
Thence I run,  
N.89° 58' W. on a true line bet. secs.13 and 24,
- 20.00 Road brs. N. and S.
- 40.02 1/2 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor. with brass cap mkd.  
1/4 S.13 on N., and  
S.24 on S. half and  
1914 on S. rim.

No trees within limits.  
Dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ff. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.

- 80.05 Cor. of secs.13, 14, 23 and 24.  
Land level.  
Soil, sandy loam, 1st rate.  
Timber, scattering mesquite.  
Undergrowth, greasewood brush.

Dec. 28, 1914.

Dec. 30, 1914.

N.0° 11' W. bet. secs. 13 and 14.

- 28.85 Road brs. N.45° E. and S.45° W.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor. with brass cap mkd.  
1/4 S.14 on W., and  
S.13 on E. half, and  
1914 on S. rim.

No trees within limits.  
Dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.

- 41.30 Old irrigation ditch 30 lks. wide 2 ft. deep, course NE.
- 46.50 Road brs. N.80° E. and S.80° W.
- 58.25 Wash 90 lks. wide, 4 ft. deep with dense growth of mesquite on the banks; course, N.60° E.
- 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. with brass cap mkd.

T.10 S.R.3 E. on N. half;  
S.12 in NE.  
S.13 in SE.  
S.14 in SW. and  
S.11 in NW. quadrants, and  
1914 on S. rim.

No trees within limits.  
Dig pits 18 X 18 X 12 ins. in each sec. 5 1/2 ft. dist and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

4.

## Partial subdivision of T.10 S.R.3 E.

Chains

Land, level.  
Soil, sandy loam, 1st rate.  
Timber, scattering mesquite.  
Undergrowth, greasewood 4 to 8 ft. high.  
At this cor. at 9h. 55m. l.m.t., I set off  $32^{\circ} 34'$  N. on the lat. arc:  $23^{\circ} 11'$  S. on the decl. arc and determine a mer. with the solar.

- East on random line bet. secs. 12 and 13.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.09 Intersect E. bdy. of the tp. 4 lks. S. of the cor. of secs. 7, 12, 13 and 18 established by W. K. Kierulff, U.S. Transitman, and described in book "B".  
Thence I run  
S.  $89^{\circ} 58'$  W. on a true line bet. secs. 12 and 13.  
Over level land through greasewood brush.
- 17.40 Road brs. S.  $70^{\circ}$  W. and N.  $70^{\circ}$  E.
- 30.90 Road brs. N. and S. and S.  $30^{\circ}$  W.
- 40.04  $\frac{1}{2}$  Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd.  
 $\frac{1}{4}$  S. 12 on N. and  
S. 13 on S. half,  
1914 on S. rim.
- No trees within limits.  
Dig pits 18 X 18 X 12 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.
- 40.64 Old irrigation ditch, 20 lks. wide, 2 ft. deep, course N.  $70^{\circ}$  E.
- 51.94 Wash 90 lks. wide, 4 ft. deep, course N.  $60^{\circ}$  E.  
Dense growth of timber along wash.
- 58.59 Old irrigation ditch, 15 lks. wide 2 ft. deep, course N.  $20^{\circ}$  E.
- 62.59 Old irrigation ditch, 10 lks. wide, 2 ft. deep, course N.  $5^{\circ}$  E.
- 80.09 Cor of secs. 11, 12, 13 and 14.  
Land, level.  
Soil, sandy loam 1st rate.  
Timber, palo verde, mesquite and ironwood along the washes.  
Undergrowth, Greasewood.
- N.  $0^{\circ} 1'$  W. bet. secs. 11 and 12.
- 40.00 Over level land, through greasewood brush.  
Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap mkd.  
 $\frac{1}{4}$  S. 11 on W., and  
S. 12 on E. half,  
1914 on S. rim.
- No trees within limits.  
Dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high W. of cor.
- 44.10 Road to Casa Grande brs. N.  $60^{\circ}$  E. and S.  $60^{\circ}$  W.
- 54.50 Wash 40 lks. wide 3 ft. deep, course, N.  $50^{\circ}$  E.
- 57.20 Road brs. N.  $45^{\circ}$  E. and S.  $45^{\circ}$  W.
- 72.00 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. 1, 2, 11 and 12 with brass cap mkd.  
T.10 S.R.3 E. on N. half;  
S. 1 in NE.  
S. 12 in SE.  
S. 11 in SW., and  
S. 2 in NW. quadrants, and  
1914 on S. rim.
- No trees within limit.  
Dig pite 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.

## Partial subdivision of T.10 S.R.3 E.

5.

Chains

Land level.  
Soil, sandy loam, 1st rate.  
Timber, scattering palo verde, mesquite and ironwood.  
Undergrowth, greasewood.  
At this cor. I set off  $23^{\circ} 10' S$  on the decl.  $210^{\circ}$ ; and at  
apparent noon I observe the sun on the mer. The re-  
sulting lat. is  $32^{\circ} 35' N$ .

East, on a random line bet. secs. 1 and 12.

- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
80.04 Intersect E. bdy. of the tp. 2 lks. S. of the cor. of  
secs. 1, 6, 7 and 12 established by W.K. Kierulff,  
U.S. Transitman, and described in book "B".  
Thence I run  
S.  $89^{\circ} 59'$  W. on a true line bet. secs. 1 and 12.  
Over old field.  
1.20 Leave field; wire fence brs. N.  $40^{\circ}$  E. and S.  $40^{\circ}$  W.  
12.00 Road brs. N.  $60^{\circ}$  E. and S.  $60^{\circ}$  W.  
20.00 Indian village of about 30 houses, all S. of line except  
three.  
31.30 Road brs. N.  $50^{\circ}$  W. and S.  $50^{\circ}$  E.  
37.20 Wash 40 lks. wide 2 ft. deep, course N.  $60^{\circ}$  E.  
40.02 Set an iron post 3 ft. long 1 in. in diam. 24 ins. in the  
ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd.  
 $\frac{1}{4}$  S. 1 on N. and  
S. 12 on S. half, and  
1914 on S. rim.  
No trees within limits.  
Dig pits 18 X 18 X 12 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.  
47.60 Road brs. N.  $20^{\circ}$  E. and S.  $20^{\circ}$  W.  
80.04 Cor. of secs. 1, 2, 11 and 12.  
Land, level.  
Soil, sandy loam, 1st rate.  
Timber, scattering palo verde and iron wood.  
Undergrowth, greasewood.

N.  $0^{\circ} 1' W$ . on random line bet. secs. 1 and 2.

- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
79.98 Intersect N. bdy. of Tp. 5 lks. W. of the cor. of secs.  
1, 2, 35 and 36, established by W.K. Kierulff, U.S.  
Transitman, and described in book "B".  
Thence I run,  
S.  $0^{\circ} 1'$  W. on a true line bet. secs. 1 and 2.  
Over level land.  
.90 Wash, 40 lks. wide 3 ft. deep, course, N.  $85^{\circ}$  E.  
26.70 Wash 15 lks. wide, 2 ft. deep, course, S.  $85^{\circ}$  E.  
39.98 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
the ground, for  $\frac{1}{4}$  sec. cor. with brass cap mkd.  
 $\frac{1}{4}$  S. 2 on W. and  
S. 1 on E. half, and  
1914 on S. rim.  
No trees within limits.  
Dig pits 18 X 18 X 12 ins N. and S. of Cor. 3 ft. dist.  
and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high  
W. of cor.  
48.52 Road brs. N.  $50^{\circ}$  W. and S.  $50^{\circ}$  E.  
79.98 Cor. of secs. 1, 2, 11 and 12.  
Land level.  
Soil, sandy loam, 1st rate.  
Timber, scattering palo verde and iron wood.  
Undergrowth, greasewood brush, 4 to 6 ft. high.  
Dec. 30, 1914.

6.

## Partial subdivision of T.10 S.R.3 E.

Chains

Dec. 29, 1914 at sec. 34 and 35.  
 At 8 h. 30 M. in a.m. limit, I set off  $32^{\circ} 30\frac{1}{2}'$  N. on the lat. arc;  $23^{\circ} 13'$  S. on the decl. arc and determine a mer. with the solar, at Std. cor. of secs. 34 & 35 on S. bdy. of Tp. (and Standard Parallel) as established by me, and described in Book "A."

Thence I run

N.  $0^{\circ} 1'$  W. bet. secs. 34 and 35,

Over level land.

39.80 Drain 15 lks. wide 2 ft. deep, course E.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd. $\frac{1}{4}$  S. 34 on W., and

S. 35 on E. half, and

1914 on S. rim.

No trees within limits.

Dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor.72.40 Road brs. N.  $80^{\circ}$  W. and S.  $80^{\circ}$  E.

80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of secs. 26, 27, 34 and 35, with brass cap mkd.

T.10 S.R.3.E. on N. half;

S. 26 in NE.

S. 35 in SE.

S. 34 in SW. and

S. 27 in NW. quadrants, and

1914 on S. rim.

No trees within limits.

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, 1st rate.

Timber, very scattering mesquite.

Undergrowth, greasewood brush, 4 to 8 ft. high.

East, on a random line bet. secs. 26 and 35.

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

79.98 Intersect N. and S. line 2 lks. S. of the cor. of secs. 25, 26, 35 and 36.

Thence I run,

S.  $89^{\circ} 59'$  W. on a true line bet. secs. 26 and 35,

Over level land.

39.99 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd. $\frac{1}{4}$  S. 26 on N. and

S. 35 on S. half, 1914 on S. rim.

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

79.98 Cor. of secs. 26, 27, 34 and 35.

Land, level, Soil, sandy loam, 1st rate.

Timber, very scattering mesquite.

Undergrowth, grease wood, brush, 4 to 8 ft. high.

N.  $0^{\circ} 1'$  W. bet. secs. 26 and 27.

Over level land.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd. $\frac{1}{4}$  S. 27 on W. and

S. 26 on E. half and

1914 on S. rim.

No trees within limits.

Dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high W. of cor.



Partial subdivision of T.10 S.R.3 E.

Chains

80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of secs. 22, 23, 26 and 27, with brass cap mkd.

T.10 S.R.3 E. on N. half;  
 S.23 on NE.  
 S.26 in SE.  
 S.27 in SW. and  
 S.22 in NW. quadrants, and  
 1914 on S. rim.

No trees within limits.  
 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, 1st, rate.  
 Timber, scattering mesquite.  
 Undergrowth, greasewood 4 to 6 ft. high.  
 At this cor. I set off 23° 14' S. on the decl. arc and at apparent noon I observe the sun on the mer. The resulting lat. is 32° 32' N.

East on a random line bet. secs. 23 and 26.

40.00 Set temp. ¼ Sec. cor.  
 79.92 Intersect N. and S. line 2 lks. S. of the cor. of secs. 23, 24, 25 and 26.  
 Thence I run,  
 S. 89° 59' W. on a true line bet. secs. 23 and 26. Over level land.  
 39.96 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground, for ¼ sec. cor. with brass cap mkd.  
 ¼ S.23 on N. and S.26 on S. half;  
 1914 on S. rim; dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist. & raise m. of earth, ½ ft. base, ½ ft. high, N. of cor.  
 79.92 Cor of secs. 22, 23, 26 and 27.  
 Land, level.  
 Soil, sandy loam, 2nd rate.  
 Timber, scattering mesquite.  
 Undergrowth, greasewood brush.

N.0°14' W. bet. secs. 22 and 23.

Over level land.  
 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground, for ¼ sec. cor. with brass cap mkd.  
 ¼ S.22 on W. and  
 S.23 On E. half, and  
 1914 on S. rim.

No trees within limits.  
 Dig pits, 18 X 18 X 12 in s. N. and S. of cor. 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.  
 76.20 Road brs. N. 50° E. and S. 50° W.  
 80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, with brass cap mkd.

T.10 S.R.3 E. on N. half;  
 S.14 in NE.  
 S.23 in SE.  
 S.22 in SW. and  
 S.15 in NW. quadrants, and  
 1914 on S. rim.

from which,  
 A palo verde 10 ins. in diam. brs. N. 76° E. 51 lks. dist. mkd. T.10 S.R.3 E. S.14 B.T.  
 An iron wood 4 ins. in diam. brs. S. 32° E. 151 lks. dist. mkd. T.10 S.R.3 E. S.23 B.T.  
 A palo verde 8 ins. in diam. brs. S. 0° 30' W. 12 lks. dist., mkd. T.10 S.R.3 E. S.22 B.T.  
 A palo verde 12 ins. in diam. brs. N. 80½° W. 110 lks. dist. mkd. T.10 S.R.3 E. S.15 B.T.

Land, level.  
 Soil, sandy loam, 1st rate.

## 8. Partial subdivision of T.10 S.R.3 E.

Chains

Timber, scattering mesquite.  
Undergrowth, greasewood.

East, on a random line bet. secs. 14 and 23.

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

79.94 Intersect N. and S. line 4 lks. N. of the cor. of secs. 13, 14, 23 and 24.

Thence I run

N.  $89^{\circ} 58'$  W. on a true line bet. secs. 14 and 23.

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

$\frac{1}{4}$  S.14 on N. and  
S. 23 on S. half, and  
1914 on S. rim.

No trees within limits.

Dig pits 18 X 18 X 12 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.

75.20 Road brs. N.  $50^{\circ}$  E. and S.  $50^{\circ}$  W.

79.94 Cor. of secs. 14, 15, 22 and 23.

Land, level.

Timber, scattering mesquite and iron wood.

Undergrowth, greasewood brush.

N.  $0^{\circ} 11'$  W. bet. secs. 14 and 15.

Over level land, through greasewood.

.50 Wash 70 lks. wide, 4 ft. deep, course N.  $50^{\circ}$  E.

Through dense growth of timber along wash.

4.80 Wash, 20 lks. wide, 2 ft. deep, course, N.  $70^{\circ}$  E.

12.75 Wash, 30 lks. wide, 4 ft. deep, course, N.  $70^{\circ}$  E.

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

$\frac{1}{4}$  S.15 on W. and  
S.14 on E. half and  
1914 on S. rim.

No trees within limits.

Dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high W. of cor.

56.50 Road to Casa Grande brs. N.  $45^{\circ}$  E. and S.  $45^{\circ}$  W.

59.35 Road brs. N.  $45^{\circ}$  E. and S.  $45^{\circ}$  W.

80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground, for cor. of secs. 10, 11, 14 and 15, with brass cap mkd.

T.10 S.R.3 E. on N. half;

S.11 on NE.

S.14 on SE.

S.15 on SW. and

S.10 in NW. quadrants, 1914 on S. rim; dig

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

Soil, sandy loam, 1st rate.

Timber, scattering mesquite, palo verde and iron wood.

Undergrowth, greasewood brush.

Dec. 29, 1914.

Dec. 30, 1914.

East, on a random line bet. secs. 11 and 14.

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

79.94 Intersect N. and S. line 1 lk. S. of the cor. of secs. 11, 12, 13 and 14.

## Partial subdivision of T.10 S.R.3 E.

9.

Chains

Thence I run  
West, on a true line bet. secs. 11 and 14.  
Over level land through greasewood brush.

39.97 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the  
ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd.  
 $\frac{1}{4}$  S.11 on N. and  
S.14 on S. half  
1914 on S. rim.

No trees within limits.  
Dig pits 18 X 18 X 12 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.

65.00 Road to Casa Grande brs. N.45° E. and S.50° W.  
79.94 Cor. of secs. 10, 11, 14 and 15.  
Land, level.  
Soil, sandy loam, 1st rate.  
Timber, scattering palo verde, mesquite and iron wood.  
Undergrowth, greasewood.  
Dec. 30, 1914.

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Dec. 31, 1914.  
At 8h. 30m. a.m.l.m.t., I set off 32° 34' N. on the lat.  
arc; 23° 6' S. on the decl. arc and determine a mer.  
with the solar at the cor. of secs. 10, 11, 14 and 15.

Thence I run  
N.0° 1' W. bet. secs. 10 and 11.  
Over level land through greasewood brush.

13.40 Wash 15 lks. wide 1 ft. deep, course E.  
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd.  
 $\frac{1}{4}$  S.10 on W., and  
S.11 on E. half;  
1914 on S. rim.

No trees within limits.  
Dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist.  
and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high  
W. of cor.

48.70 Road brs. E. and W.  
59.50 Wash 20 lks. wide 2 ft. deep, course E.  
66.66 Wash 15 lks. wide, 2 ft. deep, course E.  
69,80 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. 2, 3, 10 and 11 with  
brass cap mkd.  
T.10 S.R.3 E. on N.half;  
S.2 in NE.  
S.11 in SE.  
S10 in SW., and  
S.3 in NW. quadrants,  
1914 on S. rim.

from which,  
An iron wood 6 ins. in diam. brs. S.71° W. 43 lks.  
dist. mkd. T.10 S.R.3 E.S.10 B.T.

No other trees within limits.  
Dig pits 18 X 18 X 12 ins. in each sec  $5\frac{1}{2}$  ft. dist. and  
raise a mound of earth 4ft. base 2 ft. high W. of cor.

Land, level.  
Soil, sandy loam, 1st rate.  
Timber, scattering palo verde, mesquite and iron wood.  
Undergrowth, greasewood.

## 10. Partial subdivision of T.10 S.R.3 E.

Chains		
	East, on a random line bet. secs. 2 and 11.	
40.00	Set temp. $\frac{1}{4}$ sec. cor.	
80.03	Intersect N. and S. line at the cor. of secs. 1, 2, 11 and 12.	
	Thence I run	
	West, on a true line bet. secs. 2 and 11.	
	Over level land, through greasewood brush.	
22.80	Wash, 15 lks. wide 2 ft. deep, course N. 75° E.	
40.01 $\frac{1}{2}$	Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. with brass cap, marked $\frac{1}{4}$ S. 2 on N., and S. 11 on S. half and 1914 on S. rim.	
	No trees within limits.	
	Dig pits 18 X 18 X 12 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.	
57.10	Wash 15 lks. wide 2 ft. deep, course S. 60° E.	
80.03	Cor of secs. 2, 3, 10 and 11.	
	Land, level.	
	Soil, sandy loam, 1st rate.	
	Timber, scattering palo verde, mesquite and iron wood.	
	Undergrowth, greasewood.	
	<hr/>	
	N. 0° 1' W. on random line bet. secs. 2 and 3.	
40.00	Set temp. $\frac{1}{4}$ sec. cor.	
79.96	Intersect N. bdy. of the tp. 5 lks. W. of the cor. of secs. 2, 3, 34, and 35 established by W.K. Kierulff U.S. Transitman, and described in book "B".	
	Thence I run,	
	S. 0° 1' W. on a true line bet. secs. 2 and 3.	
	Over level land.	
4.06	Wash 20 lks. wide, 2 ft. deep, course S. 80° E.	
39.26	Wash 15 lks. wide, 2 ft. deep, course E.	
39.96	Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. with brass cap mkd. $\frac{1}{4}$ S. 3 on W. and S. 2 on E. half, and 1914 on S. rim.	
	No trees within limits.	
	Dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high W. of cor.	
57.41	Wash 20 lks. wide 2 ft. deep course E.	
72.46	Wash 20 lks. wide 2 ft. deep, course E.	
73.96	Wash 15 lks. wide 1 ft. deep, course S. 80° E.	
79.96	Cor of secs. 2, 3, 10 and 11.	
	Land, level.	
	Soil, sandy loam, 1st rate.	
	Timber, palo verde, mesquite and iron wood.	
	Undergrowth, greasewood.	
	Dec. 31, 1914. W.H.T.	

Partial subdivision of T.10 S.R.3 E.

Chains	W.K.K.
	Survey commenced Dec. 14, 1914 and executed with a Young and Son's light mountain transit No. 8492, described in book "A".
	Dec. 5, 1914, at a point near camp, in sec. 22, T.10 S. R.3 E., at 8h. 30m. p.m.l.m.t., I observe Polaris at upper culmination in accordance with instructions in the Manual of Surveying.
	Dec. 6, 1914, at 7h. 30M. a.m.l.m.t. I set a rod on line 10 chs. N. of my station. At 9h. a.m.l.m.t. I set off 32° 32' N. on the lat. arc; 22° 25' S. on the decl. arc and determine a mer. with the solar. The mer. thus determined coincides with the mer. established by observations on Polaris on Dec. 5, 1914. At 3h.p.m.l.m.t., I set off 32° 32' N. on the lat. arc; 22° 27' S. on the decl. arc and determine a mer. with the solar. The mer. thus determined coincides with the mer. established by observations on Polaris on Dec. 5, 1914. Therefore I conclude that the adjustments of the transit and solar apparatus are satisfactory.
	The initials "W.H.T." and "W.K.K." are inserted at the beginning of each of the portions of notes of measurements, Resurveys and Surveys made by W.H.Thorn, U.S. Surveyor, and W.K.Kierulff, U.S. Surveyor, respectively.
	Dec. 30, 1914. At 9h.a.m.l.m.t., I set off 32° 30½' N. on the lat. arc; 23° 10' S. on the decl. arc and determine a mer. with the solar at the std. cor. of secs. 33 and 34 on S. bdy. of the tp. (2nd. Std. Parallel S.) reestablished by W.H.T., as described in Book "A." Thence I run, N.0° 2' W. bet. secs. 33 and 34. Over level land.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ¼ sec. cor. with brass cap mkd. ¼ S.33 on W. and ¼ S.34 on E. half, and 1914 on S. rim.
	No trees within limits. Dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
80.00	Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of secs. 27, 28, 33 and 34 with brass cap mkd. T, 10 S.R.3 E. on N. half; S.27 in NE. S.34 in SE. S.33 in SW. and S.28 in NW. quadrants, and 1914 on S. rim.
	No trees within limits. 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 adobe, 1st rate. Timber, scattering mesquite. Undergrowth, dense greasewood brush.
	East, on a random line bet. secs. 27 and 34.
40.00	Set temp. ¼ sec. cor.
79.98	Intersect N. and S. line 2 lks. S. of the cor. of secs. 26, 27, 34 and 35. Thence I run, S. 89° 59' W. on a true line bet. secs. 27 and 34. Over level land.
10.20	Road brs. N30° E. and S. 30° W.
39.00	Road brs. N. 30° E. and S. 30° W.

## 12. Partial subdivision of T.10 S.R.3 E.

Chains 39.99	Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. with brass cap mkd. $\frac{1}{4}$ S.27 on N., and S.34 on S. half, and 1914 on S. rim. No trees within limits. Dig pits 18 X 18 X 12 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.
55.00 79.98	Road brs. S. $75^{\circ}$ E. and N. $75^{\circ}$ W. Cor of secs. 27, 28, 33 and 34. Land, level. Soil, sandy adobe, 1st rate. Timber, scattering mesquite. Undergrowth, dense greasewood.
	N. $0^{\circ}21'W.$ bet. secs. 27 and 28. Over level land.
3.30	Road brs. S. $75^{\circ}$ E. and N. $75^{\circ}$ W.
40.00	Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. with brass cap mkd. $\frac{1}{4}$ S.28 on W., and S.27 on E. half, and 1914 on S. rim. Dig pits 18 X 18 X 12 ins. N. and S. of cor. 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. in diam. 24 ins. in the ground for cor. of secs. 21, 22, 27 and 28 with brass cap mkd. T.10 S.R.3 E. on N. half; S.22 on NE. S.27 in SE. S.28 in SW. and S.21 in NW. quadrants, and 1914 on S. rim. 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, adobe, 1st rate. Undergrowth, dense greasewood. At this cor. I set off $23^{\circ}10'$ S. on the decl. arc and at apparent noon I observe the sun on the mer. The resulting lat. is $32^{\circ}32'$ N.
	East, on a random line bet. secs. 22 and 27.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line at the cor. of secs. 22, 23, 26 and 27. Thence I run, West, on a true line bet. secs. 22 and 27. Over level land.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. with brass cap mkd. $\frac{1}{4}$ S.22 on N., and S. 27 on S. half, and 1914 on S. rim. Dig pits 18 X 18 X 12 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.
80.00	Cor. of secs. 21, 22, 27 and 28. Land, level. Soil, sandy adobe, 1st rate. Undergrowth, greasewood brush.

## Partial subdivision of T.10 S.R.3 E.

13.

Chains

N. 08° 2' W. bet. secs. 21 and 22.  
Over level land.

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

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd.  
 $\frac{1}{4}$  S. 21 on W. and  
S. 22 on E. half,  
1914 on S. rim.

from which,  
A palo verde 8 ins. in diam. brs. N. 12 $\frac{1}{4}$ ° E.  
79 lks. dist. mkd.  $\frac{1}{4}$  S. 22 B.T.  
A palo verde 8 ins. in diam. brs. N. 10° 55' W.  
72 lks. dist. mkd.  $\frac{1}{4}$  S. 21 B.T.

41.50 Santa Rosa wash, 90 lks. wide, 4 ft. deep, course NE.  
Dense palo verde along wash.

60.00 Wash 60 lks. wide, 1 ft. deep, course N. 50° E.

61.50 Road brs. N. 50° W. and S. 50° W.

80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of secs. 15, 16, 21 and 22 with brass cap mkd.  
T.10 S.R.3 E. on N. half;  
S.15 in NE.  
S.22 in SE.  
S.21 in SW. and  
S.16 in NW. quadrants,  
1914 on S. rim.

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 and 2 ft. high  
W. of cor.

Land, level.  
Soil, adobe, 1st rate.  
Undergrowth, greasewood, brush.

East on a random line bet. secs. 15 and 22.

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

79.94 Intersect N and S. line at the cor. of secs. 14, 15, 22 and 23.  
Thence I run,  
West, on a true line bet. secs. 15 and 22.  
Over level land.

1.10 S. channel of the Santa Rosa wash, 90 lks. wide, 4 ft. deep, course N. 60° E.

6.30 Center channel Santa Rosa wash, 40 lks. wide, 3 ft. deep, course N. 45° E.

22.30 N. channel of Santa Rosa wash, 1.20 chs. wide, 3 ft. deep, course N. 70° E.

39.97 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd.  
 $\frac{1}{4}$  S. 15 on N. and  
S. 22 on S. half,  
1914 on S. rim.

No trees within limits.  
Dig pits 18 X 18 X 12 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.

56.60 Road brs. N. 60° E. and S. 60° W.

79.94 Cor. of secs. 15, 16, 21 and 22.  
Land, level.  
Soil, adobe, 1st. rate.  
Timber, dense palo verde along the washes.  
Undergrowth, greasewood. brush.

Dec. 30, 1914. W.K.K.

W.H.T.

Dec. 31, 1914.

At 8h. am. l.m.t., I set off 32° 33' N. on the lat. arc;  
23° 5' S. on the decl. arc and determine a mer.

with the solar at the cor. of secs. 15, 16, 21 and 22.

Thence I run,

14.

## Partial subdivision of T.10 S.R.3 E.

Chains

- N. 0° 2' W. bet secs. 15 and 16.  
Over level land.
- 7.30 Wash 20 lks. wide, 1 ft. deep, course E.  
24.14 Wash 20 lks. wide, 1½ ft. deep, course E.  
36.00 Road brs. E. and W.  
39.40 Wash 30 lks. wide, 2 ft. deep, course E.  
40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for ¼ sec. cor. with brass cap mkd.  
¼ S.16 on W. and  
S.15 on E. half;  
1914 on S. rim.
- No trees within limits.  
Dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
- 47.50 Wash 15 lks. wide, 1 ft. deep, course E.  
71.15 Old road brs. NE. and SW.  
73.70 Wash 15 lks. wide, 1 ft. deep, course E.  
80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of secs. 9, 10, 15 and 16, with brass cap mkd.  
T.10 S.R.3 E. on N. half;  
S.10 in NE.  
S.15 in SE.  
S.16 in SW. and  
S.9 in NW. quadrants,  
1914 on S. rim.
- No trees within limits.  
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, 1st rate.  
Timber, scattering palo verde, mesquite and iron wood.  
Undergrowth, greasewood brush.
- 
- East, on a random line bet. secs. 10 and 15.  
40.00 Set temp. ¼ sec. cor.  
80.00 Intersect N. and S. line 1 lk. N. of the cor. of secs. 10, 11, 14 and 15.  
Thence I run,  
West, on a true line bet. secs. 10 and 15.  
40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for ¼ sec. cor. with brass cap mkd.  
¼ S.10 on N. and  
S.15 on S. half; and  
1914 on S. rim.
- No trees within limits.  
Dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
- 55.40 Wash 20 lks. wide, 2 ft. deep, course S. 10° E.  
71.80 Road brs. N. 40° E. and S. 40° W.  
80.00 Cor. of secs. 9, 10, 15 and 16.  
Land, level.  
Soil, sandy loam, 1st rate.  
Timber, scattering palo verde and mesquite.  
Undergrowth, greasewood brush.
- 
- N. 0° 2' W. bet. secs. 9 and 10.  
Over level land.  
25.00 Wash 15 lks. wide 1 ft. deep, course S. 70° E.  
40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground, for ¼ sec. cor. with brass cap mkd.  
¼ S.9 on W. and  
S.10 on E. half;  
1914 on S. rim.
- No trees within limits.  
Dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist.



Partial subdivision of T.10 S.R.3 E.

Chains

and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high W. of cor.

47.10 Wash 20 lks. wide, 1 ft. deep, course E.  
 52.00 Old road brs. E. and W.  
 56.80 Wash 30 lks. wide, 4 ft. deep, course E.  
 62.50 Wash 50 lks. wide, 6 ft. deep, course S.80° E.  
 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 9 and 10 with brass cap mkd.

T.10 S.R.3 E. on N. half;  
 S.3 in NE.  
 S.10 in SE.  
 S.9 in SW. and  
 S.4 in NW. quadrants, and  
 1914 on S. rim.

from which,  
 An iron wood tree 8 ins. in diam. brs. N. 28° W. 153 lks. dist. mkd. T.10 S.R.3 E.S.4 B.T.  
 No other trees within limits.  
 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, sand and gravel, 2nd rate.  
 Timber, scattering paloverde, iron wood and mesquite.  
 Undergrowth, greasewood brush.  
 At this cor. I set off 23° 6' S. on the decl. arc and at apparent noon observe the sun on the mer. The resulting lat. is 32° 35' N.

East on a random line bet. secs. 3 and 10.

40.00 Set temp.  $\frac{1}{4}$  secs cor.  
 79.96 Intersect N. and S. line 5 lks. N. of the cor. of secs. 2, 3, 10 and 11.  
 Thence I run  
 N. 89° 58' W. on a true line bet. secs. 3 and 10.  
 Over very gradual SE. slope.

13.60 Wash 15 lks. wide, 3 ft. deep, course S.60° E.  
 20.36 Wash 20 lks. wide, 4 ft. deep, course S.60° E.  
 33.66 Wash 20 lks. wide, 4 ft. deep, course S.60° E.  
 37.76 Road brs. S.60° E. and N.60° W.  
 39.98 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd.

$\frac{1}{4}$  S.3 on N., and  
 S. 10 on S. half,  
 1914 on S. rim.

No trees within limits.  
 Dig pits 18 X 18 X 12 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.

56.00 Ravine, 30 lks. wide, 5 ft. deep, course S.70° E.  
 59.76 Old road brs. N. and S.20° W.  
 79.96 Cor. of secs. 3, 4, 9 and 10.  
 Land, very gradual E. and SE. slope.  
 Soil, gravel and rock, 2nd rate.  
 Timber, scattering palo verde, iron wood and mesquite.  
 Undergrowth, greasewood brush.

N. 0° 2' W. on random line bet. secs. 3 and 4.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 79.96 Intersect N. bdy. of tp. 9 lks. W. of the cor. of secs. 3, 4, 33 and 34, established by W.K.Kierulff, U.S. Transitman, and described in book "B"  
 Thence I run  
 S. 0° 2' W. on a true line bet, secs. 3 and 4.  
 Descend gradual SE. slope to  
 15.00 Over slightly rolling land.

## 16. Partial subdivision of T. 10 S.R.3 E.

## Chains

22.00 Road brs. N. 40° W. and S. 40° E.  
 23.56 Wash 60 lks. wide, 2 ft. deep, course S. 60° E.  
 39.96 Set an iron post 3 ft. long 1 in. in diam. 1½ ft. in ground  
 ( could not set deeper on account of solid rock) in  
 mound of stone 2 ft. base 6 ins. high for ¼ sec. cor.  
 with brass cap mkd.  
     ¼ S. 4 on W. and  
     S. 3 on E. half,  
     1914 on S. rim.  
 No trees within limits.  
 Dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist.  
 and raise a mound of earth 3½ ft. base 1½ ft. high  
 W. of cor.  
 42.66 Wash 20 lks. wide, 3 ft. deep, course E.  
 55.00 Ravine 40 lks. wide, 5 ft. deep course E.  
 79.96 Corof secs. 3, 4, 9 and 10.  
 Land, rolling.  
 Soil, gravel and rock, 3rd rate.  
 Timber, palo verde, iron wood and mesquite.  
 Dec. 31, 1914. W.H.T.

## W.K.K.

Dec. 15, 1914.

At 9 h.a.m. I set off 32° 30½' N. on the lat.  
 arc; 23° 14' S. on the decl. arc and determine a mer.  
 with the solar at the std cor. of secs. 32 and 33 on  
 S. bdy. of Tp. (2nd. Std. Par. S.) reestab. by W.H.T. as desc

inscribed in Book "A." Thence I run,

N. 0° 2' W. bet. secs. 32 and 33.

Over level land.

8.40 Wash 12 lks. wide, 1 ft. deep, course S. 80° E.  
 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in  
 the ground for ¼ sec. cor. with brass cap mkd.  
     ¼ S. 32 on W.  
     S. 33 on E. half,  
     1914 on S. rim.

No trees within limits.

Dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist.  
 and raise a mound of earth 3½ ft. base 1½ ft. high  
 W. of cor.

59.80 Road brs. NW. and SE.

80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in  
 the ground for cor. of secs. 28, 29, 32 and 33,  
 with brass cap mkd.

T. 10 S.R. 3 E. on N. half;

S. 28 in NE.

S. 33 in SE.

S. 32 in SW. and

S. 29 in NW. quadrants,

1914 on S. rim.

No trees within limits.

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 adobe, 1st rate.

Timber, dense palo verde and iron wood along washes.

Undergrowth, greasewood.

Dec. 15, 1914.

Dec. 30, 1914. From cor. of secs. 27, 28, 32 & 34, I run,  
 West, on a random line bet. secs. 28 and 33.

40.00 Set temp. ¼ sec. cor.

79.96 Intersect N. and S. line 2 lks. N. of the cor. of secs.  
 28, 29, 32 and 33.

Thence I run,

N. 89° 59' E. on a true line bet. secs. 28 and 33.

Over level land.

Partial subdivision of T.10 S.R.3 E.

Chains

39.98 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor. with brass cap mkd.  
 $\frac{1}{4}$  S. 28 on N. and  
 S. 33 on S. half,  
 1914 on S. rim.  
 Dig pits 18 X 18 X 12 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 W. on cor.

79.96 Cor. of secs. 27, 28, 33 and 34.  
 Land, level.  
 Soil, adobe; 1st rate.  
 Undergrowth, greasewood brush.  
 Dec. 30, 1914.

N. 0° 2' Dec. 15, 1914. From cor. of secs. 28, 29, 32 and 33, I run, W. bet. secs. 28 and 29.  
 Over level land.

7.50 Road brs. E. and W.  
 38.70 Road brs. E. and W.  
 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd.  
 $\frac{1}{4}$  S. 29 on W., and  
 S. 28 on E. half,  
 1914 on S. rim.  
 Dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high W. of cor.

43.70 Wash 3 chs. wide, 4 ft. deep, course E.

66.90 Road brs. E. and W.

73.10 Wash 25 lks. wide, 3 ft. deep, course, E.

74.50 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. 20, 21, 28 and 29 with brass cap mkd.

T.10 S.R.3 E. on N. half;  
 S. 21 in NE.  
 S. 28 in SE.  
 S. 29 in SW. and  
 S. 20 in NW. quadrants,  
 1914 on S. rim.

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, adobe, 1st rate.

Undergrowth, greasewood brush.

Dec. 15, 1914.

Dec. 30, 1914. From cor. of secs. 21, 22, 27 and 28, I run West, on a random line bet. secs. 21 and 28.

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

80.00 Intersect N. and S. line 2 lks. N. of the cor. of secs. 20, 21, 28 and 29.

Thence I run,

N. 89° 59' E. on a true line bet. secs. 21 and 28.

6.30 Road brs. N. 70° E. and S. 70° W.

12.20 Wash 15 lks. wide 2 ft. deep, course S. 80° E.

15.00 Wash 15 lks. wide, 2 ft. deep, course N. 85° E.

25.70 N. channel of Santa Rosa wash, 100 lks. wide, 3 ft. deep course NE.

Dense timber along this wash.

32.00 S. channel of same wash, 100 lks. wide 4 ft. deep, course NE.

36.40 Road brs. NE. and SW.

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

$\frac{1}{4}$  S. 21 on N. and  
 S. 28 on S. half,  
 1914 on S. rim.

18.

## Partial subdivision of T.10 S.R.3 E.

Chains

	<p>No trees within limits.            Dig pits 18 X 18 X 12 ins. E. and 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. with brass cap mkd.</p>
80.00	<p>Cor. of secs. 21, 22, 27 and 28.            Land, level.            Soil, sandy adobe, 1st rate.            Timber, dense palo verde cat claw and iron wood along            the washes.            Undergrowth, greasewood brush.            Dec. 30, 1914.</p>
	<p>Dec. 26, 1914.            At 9 h. a.m. l.m.t., I set off <math>32^{\circ}32'</math> N. on the lat. arc;  <math>23^{\circ}21'</math> S. on the decl. arc and determine a mer. with            the solar at the cor. of secs. 20, 21, 28 and 29.            Thence I run,  <math>N.0^{\circ}2'</math> W. bet. secs. 20 and 21.            Over level land.</p>
4.20	Wash 10 lks. wide, 1 ft. deep, course S. $80^{\circ}$ E.
5.50	Road, brs. NW. and SE.
12.80	Wash 12 lks. wide, 1 ft. deep, course S. $80^{\circ}$ E.
22.40	Road brs. E. and W.
25.30	Wash 15 lks. wide 1 ft. deep, course NE.
40.00	<p>Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the            ground for <math>\frac{1}{4}</math> sec. cor. with brass cap mkd.  <math>\frac{1}{4}</math> S. 20 on W., and            S. 21 on E. half,            1914 on S. rim.</p>
	<p>No trees within limits.            Dig pits 18 X 18 X 12 ins. N. and S. 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            W. of cor.</p>
56.00	Wash 30 lks. wide, 1 ft. deep, course, S. $75^{\circ}$ E.
70.20	Wash 20 lks. wide, 1 ft. deep course S. $60^{\circ}$ E.
80.00	<p>Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the            ground for cor. of secs. 16, 17, 20 and 21, with            brass cap mkd.            T.10 S.R.3 E. on N. half;            S.16 in NE.            S.21 in SE.            S.20 in SW. and            S.17 in NW. quadrants,            1914 on S. rim.</p>
	<p>No trees within limits.            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 with gravel surface, 2nd rate.            Timber, palo verde and iron wood along washes.            Undergrowth, greasewood brush and small cactus.            Dec. 26, 1914.</p>
	<p>Dec. 30, 1914. From cor. of secs. 15, 16, 21 and 22, I run,            West, on a random line bet. secs. 16 and 21.</p>
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect N. and S. line at the cor. of secs. 16, 17, 20 and 21.
	<p>Thence I run,            East, on a true line bet. secs. 16 and 21.            Over level land.</p>
29.90	Road brs. N. and S.
40.01	<p>Set an iron post 3 ft. long 1 in. in diam. 26 ins. in            the ground for <math>\frac{1}{4}</math> sec. cor. with brass cap mkd.  <math>\frac{1}{4}</math> S. 16 on N. and            S. 21 on S. half,            1914 on S. rim.</p>

## Partial subdivision of T.10 S.R.3 E.

19.

## Chains

- No trees within limits.  
Dig pits 18 X 18 X 12 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.
- 57.40 Wash 10 lks. wide, 2 ft. deep, course NE.  
80.02 Cor. of secs. 15, 16, 21 and 22.  
Land, level.  
Soil, adobe, 1st rate.  
Timber, scattering paloverde, and iron wood.  
Undergrowth, greasewood brush.  
Dec. 30, 1914.
- 
- Dec. 31, 1914. From cor. of secs. 16, 17, 20 and 21, I run,  
N.  $0^{\circ} 2'$  W. bet. secs. 16 and 17.  
Over slightly rolling land.  
Road brs. NE. and SW.
- 12.30 Wash 10 lks. wide 1 ft. deep, course SE.  
20.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
40.00 the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd.  
 $\frac{1}{4}$ S.17 on W. and  
S.16 on E. half; and  
1914 on S. rim.
- No trees within limits.  
Dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist.  
and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high  
W. of cor.  
At 8h. amt. I set off  $32^{\circ} 33\frac{1}{2}'$  N. on the lat. arc;  $23^{\circ}$   
 $5'$  S. on the decl. arc and determine a mer. with the  
solar, at this  $\frac{1}{4}$  sec. cor.
- 46.00 Wash 12 lks. wide, 1 ft. deep, course S.  $70^{\circ}$  E.  
50.00 Small hill about 50 ft. high brs. W. about 5 chs.  
53.80 Road brs. NE. and SW.  
64.50 Wash 10 lks. wide, 1 ft. deep, course S.  $20^{\circ}$  E.  
67.00 Ravine 50 lks. wide, 5 ft. deep, course SE.  
80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in  
the ground for cor. of secs. 8, 9, 16 and 17 with  
brass cap mkd.  
T.10 S.R.3 E. on N. half;  
S.9 in NE.  
S.16 in SE.  
S.17 in SW. and  
S.8 in NW. quadrants, and  
1914 on S. rim.
- No trees within limits.  
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 slightly rolling.  
Soil, sandy, 2nd rate.  
Timber, scattering paloverde.  
Undergrowth, greasewood brush and cactus.
- 
- East, on a random line bet. secs. 9 and 16.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
79.85 Intersect N. and S. line 5 lks. S. of the cor. of secs.  
9, 10, 15 and 16.  
Thence I run,  
S.  $89^{\circ} 58'$  W. on a true line bet. secs. 9 and 16.
- 14.15 Road brs. NE. and SW.  
35.05 Road brs. N. and S.  
39.92 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the  
ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd.  
 $\frac{1}{4}$  S.9 on N. and  
S.16 on S. half; and  
1914 on S. rim.
- No trees within limits.  
Dig pits 18 X 18 X 12 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.

20.

Partial subdivision of T.10 S.R.3 E.

Chains

64.35	Road brs. S. 15° W. and N. 15° E.
79.85	Cor. of secs. 8, 9, 16 and 17. Land, slightly rolling. Soil, W. 40 chs., sandy rocky 3rd rate, E. 40 chs. sandy 2nd rate. Timber, scattering palo verde and iron wood. Undergrowth, greasewood and cactus.
1.80	N. 0° 2' W. bet. secs. 8 and 9. Over mountainous land. Wash 20 lks. wide, 2 ft. deep, course N. 80° E.
3.00	Ascend SE. slope, 280 ft. to
16.30	Top of small spur slopes E. from main ridge. Descend 193 ft. on N. slope to
23.50	Foot of slope. Ravine 80 lks. wide, 10 ft. deep, course E. Ascend SE. slope 252 ft. to
40.00	Set an iron post 3 ft. long 1 in. in diam., 6 ins. in the ground (could not set deeper on account of solid rock) in a mound of stone 2 ft. base, 1½ ft. high, for ¼ sec. cor. with brass cap mkd. ¼ S. 8 on W. and S. 9 on E. half; and 1914 on S. rim. No trees within limits. Pits impracticable. Build a mound of stone 2 ft. base 2 ft. high W. of cor. Ascend SE. slope 60 ft. to
42.50	Top of spur brs E. and W. and ends 10 chs. to E. Descend N. slope 328 ft. to
51.00	Foot of descent. Thence over rolling land along E. foot of mountain.
62.80	Ravine 70 lks. wide, 6 ft. deep, course E.
72.30	Ravine 50 lks. wide, 6 ft. deep, course SE.
80.00	Set an iron post 3 ft. long 2 ins. in diam., 6 ins. in the ground (could not set deeper on account of solid rock) in mound of stone 12 ft. base 1½ ft. high, for cor. of secs. 4, 5, 8 and 9 with brass cap mkd. T. 10 S. R. 3 E. on N. half; S. 4 in NE. S. 9 in SE. S. 8 in SW. and S. 5 in NW. quadrants, and 1914 on S. rim. No trees within limits. Pits impracticable. Build a mound of stone 2 ft. base 2 ft. high W. of cor. Land, mountainous. Soil, rocky 4th rate. Timber, scattering scrub palo verde. Undergrowth, greasewood brush and cactus.
East on a random line bet. secs. 4 and 9.	
40.00	Set temp. ¼ sec. cor.
79.95	Intersect N. and S. line 4 lks. S. of the cor. of secs. 3, 4, 9 and 10. Thence I run, S. 89° 58' W. on a true line bet. secs. 4 and 9. Over level land.
6.75	Road brs. N. and S.
17.75	Ravine 30 lks. wide 3 ft. deep course S.
19.95	Road brs. N. and S.
29.00	Wash 10 lks. wide 1 ft. deep, course SE.
30.00	Road brs. N. 15° W. and S. 15° E.
32.85	Ravine 50 lks. wide, 5 ft. deep, course SE.
39.97	Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for ¼ sec. cor. with brass cap mkd. ¼ S. 4 on N. and S. 9 on S. half; and 1914 on S. rim.

Partial Subdivision of Township 10 South, Range 3 East. 21.

Chains

No trees within limits.  
Dig pits 18x18x12 ins., E. and 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.

- 43.00 Ravine, 75 lks. wide, 7 ft. deep, course SE.
- 60.00 Wash, 10 lks. wide, 1 ft. deep, course SE.
- 66.00 Enter rolling land, general E. slope.
- 73.25 Top of small hill.
- 77.75 Descend W. slope, 100 ft. to
- 77.90 Ravine, 20 lks. wide, 3 ft. deep, course N.  
Thence along gradual NE. slope.
- 79.95 Cor. of secs. 4, 5, 8 and 9.  
Land, 60 chs. level; 20 chs. rolling and rough.  
Soil, rocky, 4th rate.  
Timber, scattering scrub palo verde.  
Undergrowth, greasewood brush and cholla cactus.

- 40.00 N. 0° 2' W. on a random line, between secs. 4 and 5.  
Set temp. 1/4 sec. cor.
- 80.16 Intersect N. bdy. of Tp., 14 lks. W. of cor. of secs. 4, 5, 32 and 33, established by me, and described in Book "B."  
Thence I run,

- S. 0° 4' W., on a true line, bet. secs. 4 and 5.  
Ascend NE. slope, 100 ft. to
- 13.00 Top of small ridge, brs. NW. and SE.  
Descend SE. slope, 100 ft.

- 15.00 A tunnel brs. E. about 1 chain.
- 23.00 Wash, 30 lks. wide, 4 ft. deep, course SE.  
Foot of slope.

- 25.00 Thence over rolling land.  
Road brs. NE. and SW.
- 27.50 Wash, 20 lks. wide, 2 ft. deep, course E.
- 37.40 Enter wash, 10 ft. banks, course NE.

- 40.16 Point for 1/4 sec. cor.
- 42.40 Leave wash, 10 ft. banks, course NE.  
As true point for 1/4 sec. cor. falls in this wash, at
- 42.76 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for witness cor. to 1/4 sec. cor., with brass cap, marked

W C on N.,  
1/4 S 5 on W. and  
S 4 on E half;  
1914 on S. rim; from which

An ironwood brs. N. 33° 30' W., 41 lks. dist., marked  
1/4 S 5 W C B T.

No other trees within limits. Dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

- 65.00 Over rolling land.  
Ravine, 100 lks. wide, 10 ft. deep, course S. 80° E.
- 66.90 Ravine, 100 lks. wide, 10 ft. deep, course E.
- 73.00 Along NE. slope.
- 80.16 Cor. of secs. 4, 5, 8 and 9.

Land, hilly and rough.  
Soil, rocky, 4th rate.  
Timber, scattering scrub palo verde and ironwood.  
Undergrowth, greasewood and cactus.

December 31, 1914.

Dec. 14, 1914.  
At 9h. a.m., 1.m.t., I set off 32° 30 1/2' N. on the lat. arc; 23° 10' S. on the decl. arc; and determine a meridian with the solar, at the standard cor. of secs. 31 and 32 on S. bdy. of Tp. (2nd. Standard Parallel South) reestablished by W.H.T., and described in Book "A."  
Thence I run,  
N. 0° 3' W., bet. secs. 31 and 32.

## 22. Partial Subdivision of Township 10 South Range 3 East.

Chains.

- Over level land.  
 17.50 Wash, 10 lks. wide, 1 ft. deep, course E.  
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap, marked  
 $\frac{1}{4}$  S 31 on W., and  
 S 32 on E. half;  
 1914 on S. rim:  
 No trees within limits.  
 Dig pits 18x18x12 ins., N. and S. of cor., 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. in diam., 24 ins. in the ground for cor. of secs. 29, 30, 31 and 32, with brass cap, marked  
 T 10 S R 3 E on N. half;  
 S 29 in NE.,  
 S 32 in SE.,  
 S 31 in SW., and  
 S 30 in NW. quadrants;  
 1914 on S. rim.  
 No trees within limits. 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, gravelly, 2nd rate.  
 Timber, dense palo verde and ironwood along the washes.  
 Undergrowth, greasewood and cactus.  
 Dec. 14, 1914.
- 
- Dec. 15, 1914: From cor. of secs. 28, 29, 32 and 33, I run, West, on a random line, bet. secs. 29 and 32.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.09 Intersect N. and S. line at the cor. of secs. 29, 30, 31 and 32.  
 Thence I run,  
 East, on a true line, bet. secs. 29 and 32.  
 Over level land.  
 32.90 Road brs. NW. and SE.  
 40.04 $\frac{1}{2}$  Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap, marked  
 $\frac{1}{4}$  S 29 on N., and  
 S 32 on S. half;  
 1914 on S. rim.  
 No trees within limits.  
 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.  
 47.80 Road brs. SE. and NW.  
 80.09 Cor. of secs. 28, 29, 32 and 33.  
 Land, level.  
 Soil, sandy adobe, 1st rate.  
 Timber, scattering scrub palo verde.  
 Undergrowth, greasewood brush.  
 Dec. 15, 1914.
- 
- Dec. 14, 1914. From cor. of secs. 29, 30, 31 and 32, I run West on a random line, bet. secs. 30 and 31.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 79.92 Intersect west bdy. of Tp. at cor. of secs. 25, 30, 31 and 36, established by me and described in Book "B."  
 Thence I run,  
 East, on a true line, bet. secs. 30 and 31.  
 Over level land.  
 22.40 Wash 75 lks. wide, 3 ft. deep, course NE.



Partial Subdivision of T.10 S.R.3 E.

Chains

39.92 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor. with brass cap mkd.  
 $\frac{1}{4}$  S.30 on N., and  
 S.31 on S. half, and  
 1914 on S. rim.

No trees within limits.  
 Dig pits 18 X 18 X 12 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.

60.17 Wash 20 lks. wide 3 ft. deep, course NE.

79.92 Cor. of secs. 29, 30, 31 and 32.

Land, level.

Soil, gravelley 2nd rate.

Timber, dense palo verde and iron wood along washes.

Undergrowth, greasewood brush and cactus. At this cor., at apparent noon, I set off  $23^{\circ}11'$  S. on the decl. arc and observe the sun on the mer. The resulting lat. is  $32^{\circ}31'N$ .

N.09 3! W bet. secs. 29. and 30.

Over level land.

7.90 Brush fence brs. E. and W.

Enter small clearing of about 10 acres.

Indian adobe house brs. W. about 10 chs.

14.00 Road brs. N  $80^{\circ}$  W. and S.  $80^{\circ}$  E.

22.60 Wash 3 chs. wide, 3 ft. deep, course E.

37.40 Road brs. E, and W.

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

$\frac{1}{4}$  S.30 on W., and  
 S.29 on E. half, and  
 1914 on S. rim.

from which,

A palo verde 8 ins. in diam. brs. N.  $29\frac{1}{2}^{\circ}$  W.  
 55 lks. dist. mkd. S.30 B.T.

A palo verde 10 ins. in diam. brs. S.  $58^{\circ}$  E.  
 39 lks. dist. mkd.  $\frac{1}{4}$  S. 29 B.T.

75.00 Wash 50 lks. wide, 1 ft. deep, course S.  $40^{\circ}$  E.

80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in the ground for cor. of secs. 19, 20, 29 and 30, with brass cap mkd.

T.10 S.R.3 E. on N. half;  
 S.20 in NE.  
 S.29 in SE.  
 S.30 in SW. and  
 S19 in NW. quadrants, and  
 1914 on S. rim.

No trees within limits. Pits impracticable.

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

Land, level.

Soil, 40 chs. gravelley 2nd rate, 40 chs. gravelley 3rd rate

Timber, dense iron wood and palo verde along washes.

Undergrowth, dense greasewood brush and cactus.

Dec. 14, 1914.

Dec. 15, 1914. From cor. of secs. 20, 21, 28 and 29, I run, West, a random line bet. secs. 20 and 29.

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

80.10 Intersect N, and S. line at cor. of secs. 19, 20, 29 and 30.

Thence I run,

East, on true line bet. secs. 20 and 29.

Over level land.

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

$\frac{1}{4}$  S. 20 on N., and  
 S.29 on S. half;  
 1914 on S. rim.

No trees within limits.

Dig pits 18 X 18 X 12 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

24.

## Partial subdivision of T.10 S.R.3 E.

Chains

N. of cor.  
 80.10 Cor. of secs. 20, 21, 28 and 29.  
 Land, level.  
 Soil, sandy with gravel, 2nd rate., last 40 chs 3rd rate.  
 Timber, palo verde and ironwood.  
 Undergrowth, greasewood brush.  
 At this cor. I set off  $23^{\circ} 15'$  S. on the decl. arc and at  
 apparent noon observe the sun on the mer. The resulting  
 Lat. is  $32^{\circ} 32'$  N.  
 Dec. 15, 1914.

Dec. 14, 1914. From cor. of secs. 19, 20, 29 and 30, I run,  
 West, on random line bet. secs. 19 and 30.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 79.84 Intersect W. bdy of tp. 4 lks. S. of cor. of secs.  
 19, 24, 25 and 30, as established by me and described  
 in book "B."  
 Thence I run,  
 S.  $89^{\circ} 58'$  E. on a true line bet. secs. 19 and 30.  
 Slightly rolling land.  
 2.84 Wash 20 lks. wide, 2 ft. deep, course S.  
 23.74 Wash 50 lks. wide, 1 ft. deep, course S.  
 33.84 Wash 20 lks. wide, 1 ft. deep, course S.  $10^{\circ}$  E.  
 39.84 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the  
 ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd.  
 $\frac{1}{4}$  S.19 on N., and  
 S.30 on S. half,  
 1914 on S. rim.  
 from which,  
 A palo verde 8 ins. in diam. brs. N.  $60^{\circ}$  W.  
 39 lks. dist. mkd.  $\frac{1}{4}$  S. 19 B.T.  
 A palo verde 10 ins. in diam. brs. S.  $89^{\circ} 30'$  E.  
 36 lks. dist. mkd.  $\frac{1}{4}$  S.30 B.T.  
 41.44 Wash 25 lks. wide, 1 ft. deep, course, S.  
 74.84 Wash 50 lks. wide 1 ft. deep, course SE.  
 79.84 Cor. of secs. 19, 20, 29 and 30.  
 Land, level.  
 Soil, gravelly, 3rd rate.  
 Timber, dense palo verde and iron wood along washes.  
 Undergrowth, greasewood and cactus.  
 Dec. 14, 1914.

Dec. 15, 1914.  
 N.  $0^{\circ} 3'$  W. bet. secs. 19 and 20.  
 Overageably rolling land.  
 28.60 Road brs. E. and W.  
 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in  
 the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd.  
 $\frac{1}{4}$  S.19 on W. and  
 S.20 on E. half,  
 1914 on S. rim.  
 No trees within limits.  
 Dig pits 18 X 18 X 12 ins. N and S. of cor. 3 ft. dist.  
 and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft, high  
 W. of cor.  
 45.00 Wash 10 lks. wide,  $1\frac{1}{2}$  ft. deep, course E.  
 49.80 Road brs. N.  $60^{\circ}$  E. and S.  $60^{\circ}$  W.  
 55.00 Ascend gradual SE. slope.  
 80.00 Set an iron post 3 ft. long 2 ins. in diam. 1 ft. in the  
 ground (could not set deeper on account of solid rock)  
 in mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, for cor.  
 of secs. 17, 18, 19 and 20, with brass cap mkd.  
 T.10 S.R.3 E. on N. half;  
 S.17 in NE.  
 S.20 in SE.  
 S19 in SW. and  
 S.18 in NW. quadrants,  
 1914 on S. rim.  
 No trees within limits, pits impracticable.

Partial subdivision of T.10 S.R.3 E.

Chains

Build a mound of stone 3 ft. base 2 ft. high W. of cor.  
Land, level and rolling.  
Soil, south 60 chs. gravelly 3rd rate, north, 20 chs. stony  
4th rate.  
Timber, scattering palo verde and iron wood.  
Undergrowth, greasewood and cactus.  
Dec. 15, 1914.

Dec. 26, 1914.  
From cor. of secs. 16, 17, 20 and 21 I run  
west on a random line bet. secs. 17 and 20.

- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.10 Intersect N. and S. line at cor. of secs. 17, 18, 19 and 20.  
Thence I run  
East, on a true line bet. secs. 17 and 20.  
On E. slope of mountain.  
Descend 300 ft. over E. slope to
- 17.00 Foot of slope.
- 10.00 Wash 30 lks. wide, 3 ft. deep, course S.
- 16.00 Wash 30 lks. wide 2 ft. deep, course S. 10° E
- 20.50 Ravine 30 lks. wide, 6 ft. deep, course SE.
- 35.00 S. point of mountain grs. S. 1 ch. On ridge 50 ft. high  
brs N. and S.
- 40.05 Set an iron post 3 ff. long 1 in. in diam. 26 ins. in the  
ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd.  
 $\frac{1}{4}$  S. 17 on N. and  
S. 20 on S. half, and  
1914 on S. rim.  
No trees within limits.  
Dig pits 18 X 18 X 12 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.  
Small rocky hills brs. S. about 10 chs. dist.  
Thence over rolling and level land.
- 40.30 Road brs. NE. and SW.
- 61.60 Road brs. NE. and SW.
- 80.10 Cor. of secs. 16, 17, 20 and 21.  
Land, level and hilly.  
Soil, west  $\frac{1}{2}$  ch. rocky 4th rate, East  $\frac{1}{2}$  ch. sandy with gravel  
surface, 3rd rate.  
Timber, scattering palo verde and iron wood.  
Undergrowth, greasewood and cactus.

At the cor. of secs. 17, 18, 19 and 20,  
I set off 23° 22' S. on the decl. arc and at apparent  
noon, observe the sun on the mer. The resulting  
lat. is 32° 33' N.

- Thence I run  
West, on a random line bet. secs. 18, and 19.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 79.76 Intersect W. bdy. of tp. 4 lks. S. of the cor. of secs.  
13, 18, 19 and 24 as established by me and described  
in book "B."  
Thence I run  
S. 89° 58' E. on a true line bet. secs. 18 and 19.  
Ascend slope to SW. 50 ft. to
- 2.76 Top of ascent; descend NE. slope 50 ft. to
- 6.46 Road brs. NW. and SE.
- 10.76 Wash 75 lks. wide, 3 ft. deep course S. 5° E.
- 20.75 Wash 20 lks. wide, 2 ft. deep, course S.
- 21.75 Ascend NW. slope 255 ft, to
- 35.76 Top of ridge brs N. 15 chs dist. and S. 20 chs.  
Descend E. slope 250 ft.
- 39.76 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in  
the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd.  
 $\frac{1}{4}$  S. 18 on N. and  
S. 19 on S. half, and  
1914 on S. rim.  
No trees within limits.  
Dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist.

26.

Partial subdivision of T.10 S.R.3 E.

Chains

and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high  
 N. of cor.  
 44.76 Bottom of descent.  
 Thence over rolling land.  
 51.76 Ravine 150 lks. wide 5 ft. deep, course S.  
 57.26 Ravine 50 lks. wide, 10 ft. deep, course SW.  
 59.76 Ascend steep W. slope, 235 ft. to  
 73.76 Top of ridge, brs. N. and S.  
 Descend steep E. slope, 125 ft. to  
 79.76 Cor. of secs. 17, 18, 19 and 20.  
 Land mountainous.  
 Soil, stony, 4th rate.  
 Timber, scattering palo verde and iron wood.  
 Undergrowth, greasewood brush and cactus.  
 W.K.K. Dec. 26, 1914.

## GENERAL DESCRIPTION.

Sections 5, 6, 7, 8, 17 and 18, have been omitted from the subdivision in this township on account of high rough surface of the Bitter Well Mts. The sections surrounding those omitted are rough rolling and almost worthless, cut with deep washes and ravines. The drainage of this township is toward section 12, in which there is an Indian village of the Papago Indians. These Indians have thrown up a few rough irrigating ditches and utilize the flood water from the washes to irrigate their small fields, which they cultivate to grain with some success. Abandoned copper prospects are to be found in the mountains in sections 4 and 5. The level portion of the township is of sandy loam and adobe soil and capable of yielding good crops with irrigation. Mesquite timber grows plentifully along the washes and iron wood and palo verde in the vicinity of the hills. The undergrowth, is scrub palo verde, greasewood brush, ocotillos and cacti. There are no homesteads.

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For Certificate OF UNITED STATES SURVEYOR, and UNITED STATES TRANSITMAN.

See Book "C" of this Group.

I, \_\_\_\_\_, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for \_\_\_\_\_ bearing date of the \_\_\_\_\_ day of \_\_\_\_\_, 191 \_\_\_\_\_, 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 \_\_\_\_\_ of the \_\_\_\_\_ Meridian, in the State of \_\_\_\_\_, 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 U. S. Surveyor General for \_\_\_\_\_ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

U. S. Surveyor.

Subscribed by said \_\_\_\_\_, and sworn to before me } this \_\_\_\_\_ day of \_\_\_\_\_, 191 \_\_\_\_\_



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, MAR 19 \_\_\_\_\_, 1917.

The foregoing field notes of the survey of the Partial Subdivision of \_\_\_\_\_

TOWNSHIP 10 SOUTH, RANGE 3 EAST,

executed by W.H. Thorn, U.S. Surveyor, and W.K. Kierulff, U.S. Transitman, under special instructions dated July 29, 1914, for Group 38, Ariz., having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

*Franz O. Froth*

U. S. Surveyor General. of Arizona.

~~I certify that the foregoing transcript of the field notes of the above described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.~~

~~U. S. Surveyor General. for Arizona.~~