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BOOK 2870

Book "C."

(Subdivisions)

# FIELD NOTES

OF THE SURVEY OF THE

Completion of the

SUBDIVISION LINES OF

TOWNSHIP 14 NORTH, RANGE 7 WEST.

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

John F. Hesse,

U. S. Surveyor,

In the capacity of U. S. Surveyor, under instructions dated Sept. 26, 1914, issued by the United States Surveyor General to govern surveys included in Group No. 37, which were approved by the Commissioner of the General Land Office, Oct. 3, 1914.

Survey commenced April 11, 1915.

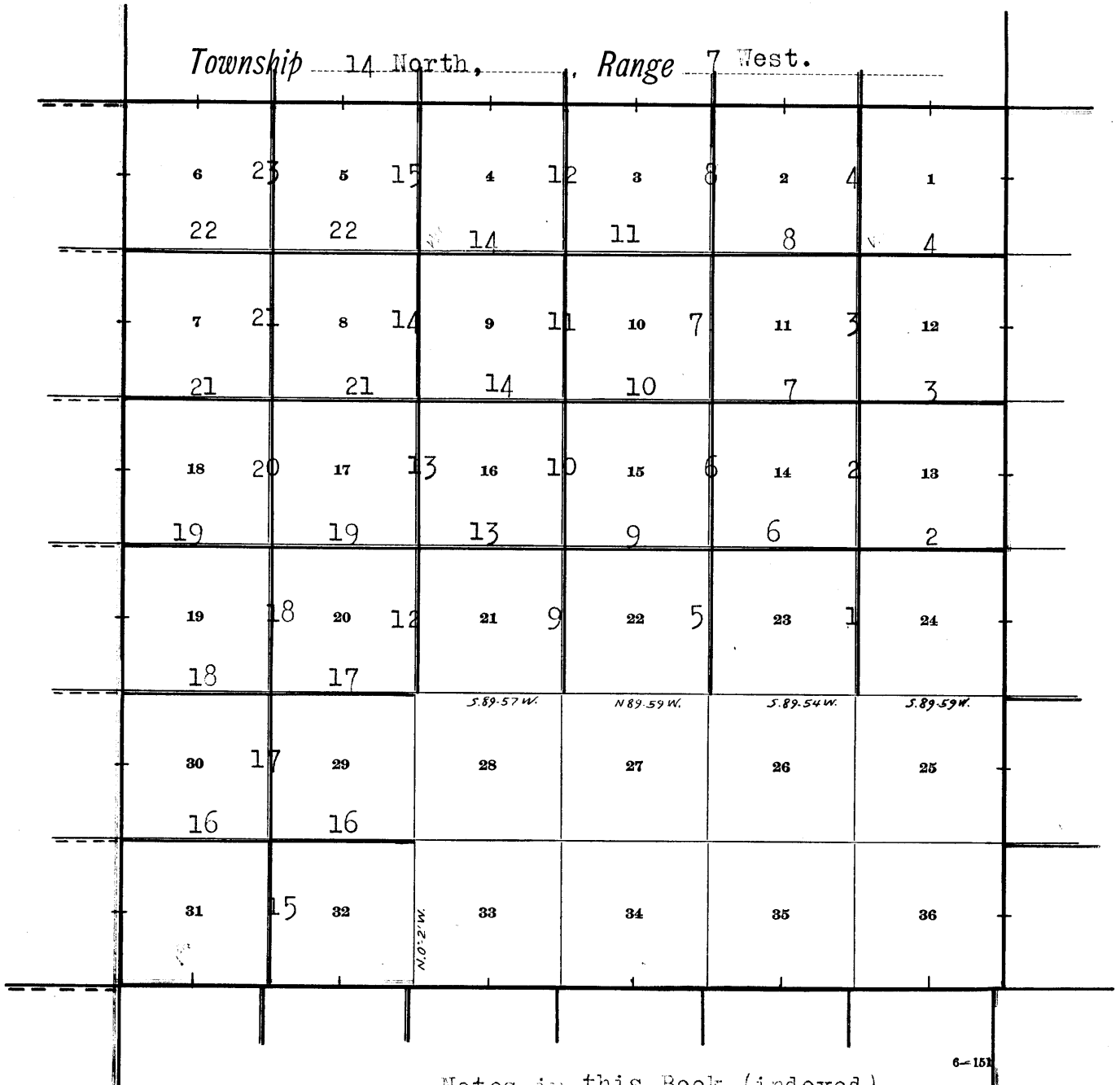
Survey completed May 25, 1915.

BOOK 2870

Book "G"

# INDEX DIAGRAM.

Township 14 North, Range 7 West.



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- Notes in this Book (indexed)
- Notes in Book "A."
- Notes in Book "E"
- Notes in Book "F"
- Notes in Book "I"
- Accepted Surveys.
- Unsurveyed lines.

## 2 Completion of Subdivision of Twp. 14 N. Rg. 7 W.

Chains.	1915 on S. rim; $\frac{1}{4}$ S23 in W. and S24 in E. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
76.10	Ridge bears N. E. and S. W. 618 ft. above wash. Descend.
80.00	Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 13, 14, 23 and 24, marked on brass cap 1915 on S. rim; T14NR7W in N. half; S14 in N. W. S13 in N. E. S24 in S. E. and S23 in S. W. quadrant; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. 50 ft. below ridge. Land, mountainous. Soil, rocky; 4th. rate. No timber. Undergrowth, paloverde and catclaw. Poor grass. April 16; At this cor. I set off $9^{\circ} 57\frac{1}{2}'$ N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $34^{\circ} 32\frac{1}{2}'$ N.
40.00	N. $89^{\circ} 59'$ E. on a random line bet. secs. 13 and 24. Set temp. $\frac{1}{4}$ sec. cor.
79.94	Intersect E. bdy. of Tp. 7 lks. N. of the cor. of secs. 13, 18, 19 and 24, on the E. bdy. of the Tp. which is by stone firmly set in the ground, marked and witnessed as described by the Surveyor General. Thence I run, N. $89^{\circ} 58'$ W. on a true line bet. secs. 13 and 24. Ascend, through scattering brush.
23.63	Spur, brs. SW. 171 ft. above cor. Descend.
39.97	Set an iron post 3 ft. long, 1 in. diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap 1915 on S. rim; $\frac{1}{4}$ S13 in N. and S24 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
54.41	Wash 8 lks. wide course S. W. 294 ft. below spur. Ascend.
63.76	Ridge bears N. E. and S. W. 113 ft. above wash, and along N. W. slope.
79.94	The cor. of secs. 13, 14, 23 and 34. 5 ft. above ridge. Land, mountainous. Soil, rocky; 4th. rate. No timber. Undergrowth, paloverde and catclaw. Poor grass.
	April 16, 1915.
	April 23, 1915; At 7h. oom. a.m., l.m.t., I set off $34^{\circ}$ $32\frac{1}{2}'$ N. on the lat. arc; $12^{\circ} 19\frac{1}{2}'$ N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 13, 14, 23 and 24. Thence I run N. $0^{\circ} 01'$ W. bet. secs. 13 and 14. Descend through scattering brush.
28.26	Wash 15 lks. wide course N. W. 453 ft. below cor. Ascend.
39.88	Ridge bears N. W. and S. E. 148 ft. above wash. Descend.
40.00	Set an iron post 3 ft. long, 1 in. diam., 12 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap 1915 on S. rim;

## Chains.

Survey commenced April 11, 1915, and executed with an A. Lietz light mountain transit, No. 6166, with solar attachmant. 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. The instrument was approved by the Assistant Supervisor of Surveys for Arizona and California, conditional upon satisfactory field tests, September 28, 1914.

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

At my camp, which is located at the cor. of secs. 31 and 32 on the S. bdy. of the Township; latitude  $34^{\circ} 30' 03''$  N.; longitude  $113^{\circ} 01' 31''$  W.; I set off  $34^{\circ} 30'$  N. on the lat. arc;  $8^{\circ} 14\frac{1}{2}'$  N. on the decl. arc; and at 5h. 00 m. p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of my station.

At 6h. 09m. p.m. by my watch which has correct l.m.t., I observe Polaris at western elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground 5 chs. N. of my station.

April 11, 1915.

April 12, 1915: At 6h. 45m. a.m., l.m.t., I lay off the azimuth of Polaris,  $1^{\circ} 23'$  to the east, and mark the meridian thus determined, by cutting a small groove in the stone set April 11, on which the meridian falls 0.2 ins. east of the mark determined by the solar.

At 7h. 00m. a.m., l.m.t., I set off  $34^{\circ} 30'$  N. on the lat. arc;  $8^{\circ} 27\frac{1}{2}'$  N. on the decl. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark falls 0.2 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about  $0' 11''$  west and east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h. 10m. a.m. is N.  $15^{\circ} 30'$  W.; the angle thus determined gives the mag. decl.  $15^{\circ} 30'$  E.

April 12, 1915.

April 16, 1915; At 7h. 00m. a.m., l.m.t., I set off  $34^{\circ} 32'$  N. on the lat. arc;  $9^{\circ} 53'$  N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 23, 24, 25 and 26, which is a stone firmly set in the ground, marked and witnessed as described by the survey or general.

Thence I run.

N.  $0^{\circ} 01'$  W. bet. secs. 23 and 24.

Ascend gradially through scattering brush.

6.00 Descend. 46 ft. above cor.

14.33 Wash in bottom of canyon, 40 lks. wide course S. W.  $11\frac{1}{2}$  ft. below 6.00 chn. point. Ascend.

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

Completion of Subdivision of Township 14 North, Range 7 West. 3.

Chains	<p><math>\frac{1}{2}</math> S 14 in W., and  <math>\frac{1}{2}</math> S 13 in E. half; and raise a mound of  stone 2 ft. base, <math>1\frac{1}{2}</math> ft. high, W. of cor. Pits impracti-  cable.</p> <p>69.09 Sycamore Creek 20 lks. wide, course SW., 449 ft. below ridge;  clear running water 13 ins. deep. Road bears NE. and SW.  in creek; ascend.</p> <p>80.00 Set an iron post 3 ft. long, 2 ins. in diam., 10 ins. in the  ground in a mound of stone for cor. of secs. 11, 12, 13  and 14, marked on brass cap,  1915 in S. rim;  T 14 N R 7 W in N. half;  S 11 in NW.,  S 12 in NE.,  S 13 in SE., and  S 14 in SW. quadrant; and raise a mound of  stone 2 ft. base, <math>1\frac{1}{2}</math> ft. high, W. of cor. Pits impractica-  ble.</p> <p>Land, mountainous.  Soil, rocky, 4th rate. No timber.  Undergrowth, palo verde and catclaw.  Poor grass.  216 ft. above creek.  April 23: At this cor. I set off <math>12^{\circ}22\frac{1}{2}'</math> N. on the decl. arc;  and observe the sun on the meridian at noon; the re-  sulting lat. is <math>34^{\circ}33\frac{1}{2}'</math> N.</p> <hr/> <p>40.00 S. <math>89^{\circ}58'</math> E. on a random line, bet. secs. 12 and 13.  Set temp. <math>\frac{1}{4}</math> sec. cor.</p> <p>80.02 Intersect E. bdy. of Tp., 2 lks. S. of the cor. of secs. 7, 12,  13 and 18, established by me as described in Book "A."  Thence I run,  N. <math>89^{\circ}59'</math> W. on a true line, bet. secs. 12 and 13.  Descend through scattering brush.</p> <p>5.70 Wash, 20 lks. wide, course N. 75 ft. below cor. Ascend.</p> <p>22.52 Spur, brs. N. 110 ft. above wash; descend.</p> <p>40.01 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in  the ground for <math>\frac{1}{4}</math> sec. cor., marked on brass cap,  1915 in S. rim;  <math>\frac{1}{2}</math> S 12 in N., and  S 13 in S. half; and raise a mound of stone  2 ft. base, <math>1\frac{1}{2}</math> ft. high, N. of cor. Pits impracticable.  104 ft. below spur; ascend.</p> <p>51.72 Spur, brs. NW. 117 ft. above <math>\frac{1}{4}</math> sec. cor. Descend.</p> <p>65.95 Sycamore Creek, 50 lks. wide, course S. 365 ft. below  spur. Clear running water 6 ins. deep.</p> <p>66.95 Road brs. N. and S. Ascend.</p> <p>80.02 The cor. of secs. 11, 12, 13 and 14.  201 ft. above creek.  Land mountainous.  Soil, rocky, 4th rate.  No timber.  Undergrowth, palo verde and catclaw.  Poor grass. April 23, 1915</p> <hr/> <p>May 14, 1915: At 7h.00m. a.m., l.m.t., I set off <math>34^{\circ}</math>  <math>33\frac{1}{2}'</math> N. on the lat. arc; <math>18^{\circ}28\frac{1}{2}'</math> N. on the decl. arc, and  determine a meridian with the solar at the cor. of  secs. 11, 12, 13 and 14. Thence I run,  N. <math>0^{\circ}01'</math> W. bet. secs. 11 and 12.  Ascend through scattering brush.</p> <p>15.05 Spur, brs. E. 378 ft. above cor.; descend.</p> <p>33.35 Road brs. NW. and SE.</p> <p>40.00 True point for cor. falls on land subject to overflow.  Unsafe position to set iron post.</p> <p>42.60 Sycamore Creek 70 lks. wide, course SE., 568 ft. below  spur. Clear running water, 6 ins. deep.</p>
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## 4. Completion of Subdivision of Township 14 North, Range 7 West.

Chains.

- 42.60 Sycamore Creek, 79 lks. wide, course SE. 568 ft. below spur; clear running water 6 ins. deep.
- 45.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for witness cor. to  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 1915 in S. rim;  
 W C  $\frac{1}{4}$  S of center;  
 S 11 in NW., and  
 S 12 in NE. quadrant; from which,  
 A sycamore, 10 ins. in diam., brs. N.  $64^{\circ}$  E., 209 lks. dist., marked W C  $\frac{1}{4}$  S 12 B T.  
 A sycamore, 14 ins. in diam., brs. S.  $32^{\circ}$  W., 90 lks. dist., marked W C  $\frac{1}{4}$  S 11 B T.
- 59.60 Road bears NE. and SW.
- 60.80 Sycamore Creek 70 lks. wide, course SW. Clear running water 6 ins. deep; ascend.
- 70.38 Spur, brs. E. 364 ft. above creek; descend.
- 79.14 Sycamore Creek 50 lks. wide, course SE. 325 ft. below spur. Clear running water 6 ins. deep.
- 80.00 True point for cor. of secs. 1, 2, 11 and 12 falls on land subject to overflow during high water. Witness cor. set 1.22 chs. N. as described in notes of line bet. secs. 1 and 2.  
 Land, very rough and mountainous.  
 Soil, rocky, 4th rate.  
 No timber.  
 Undergrowth, palo verde and catclaw.  
 May 14, 1915.
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- May 15, 1915: At 7h.00m. a.m., l.m.t., I set off  $34^{\circ}34\frac{1}{2}'$  N. on the lat. arc;  $18^{\circ}43\frac{1}{2}'$  N. on the decl. arc; and determine a meridian with the solar at the true point for cor. of secs. 1, 2, 11 and 12.  
 Thence I run,  
 S.  $89^{\circ}59'$  E. on a random line, bet. secs. 1 and 12.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 79.98 Intersect E. bdy. of Tp. at the cor. of secs. 1, 6, 7 and 12, established by me as described in Book "A."  
 Thence I run,  
 N.  $89^{\circ}59'$  W. on a true line, bet. secs. 1 and 12.  
 Over rough broken land, descending through scattering brush.
- 15.53 136 ft. below cor.; ascend.
- 39.99 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 1915 in S. rim;  
 $\frac{1}{4}$  S 1 in N., and  
 S 12 in S. half; and raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.
- 41.27 Ridge, brs. NE. and SW. 34 ft. above 15.53 chain point. Descend.
- 79.73 Road brs. NW. and SE.
- 79.98 The true point for cor. of secs. 1, 2, 11 and 12.  
 Land, mountainous.  
 Soil, rocky, 4th rate.  
 No timber.  
 Undergrowth, palo verde and catclaw.  
 359 ft. below ridge.  
 May 15: At this cor. I set off  $18^{\circ}45\frac{1}{2}'$  N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is  $34^{\circ}34\frac{1}{2}'$  N.
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- N.  $0^{\circ}01'$  W. on a random line, bet. secs. 1 and 2 from true point for cor. of secs. 1, 2, 11 and 12.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.08 Intersect N. bdy. of Tp. 2 lks. W. of the cor. of secs. 1, 2, 35 and 36, established by me as described in Book "A".  
 Thence I run,

## Completion of Subdivision of Tp. 14 N. Rg. 7 W.

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- Chains. South bet. secs. 1 and 2 on a true line.  
Along E. slope, gradually ascending, through scattering brush.
- 20.04 Wash 30 lks. wide course E. 32 ft. above cor. Ascend.  
35.31 Spur, brs. E. 253 ft. above wash. Descend.  
40.08 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap  
1915 on S. rim;  
 $\frac{1}{4}$ S2 in W. and  
S1 in E. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.
- 62.68 Sycamore Creek 50 lks. wide course S. W. 277 ft. below spur. Clear running water 6 ins. deep. Road in creek. Ascend.
- 70.25 Spur, brs. W. 188 ft. above creek. Descend.  
78.76 Road bears N. W. and S. E.  
78.86 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for W.C. to cor. of secs. 1, 2, 11 and 12, marked on brass cap  
1915 on S. rim;  
WC S. of center;  
T14NR7W in N. half;  
S2 in N. W.  
S1 in N. E.  
S12 in S. E. and  
S11 in S. W. quadrant; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable. From which  
A sycamore 12 ins. diam., bears S.  $64\frac{1}{2}^{\circ}$  W. 139 lks. dist., marked WCT14NR7WS11BT.  
No other bearings available.
- 80.08 The true point for cor. of secs. 1, 2, 11 and 12. 198 ft. below spur.  
Land, mountainous.  
Soil, rocky; 4th. rate.  
No timber.  
Undergrowth, oak, laurel and catclaw.

May 15, 1915.

- April 17, 1915; At 7h. 00m. a.m., l.m.t., I set off  $34^{\circ}$   $32'$  N. on the lat. arc;  $10^{\circ} 15\frac{1}{2}'$  N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 22, 23, 26 and 27, which is a stone firmly set in the ground, marked and witnessed as described by the surveyor general.
- Thence I run  
N.  $0^{\circ} 01'$  W. bet. secs. 22 and 23.  
Over rolling land, through scattering brush.
- 12.65 Wash 10 lks. wide course S. W.  
22.00 Ascend.  
40.00 True point for  $\frac{1}{4}$  sec. cor. falls on E. edge of wash 10 lks. wide course S. W. Therefore at  
40.30 Set an iron post 3 ft. long, 1 in. diam., in a mound of stone for witness cor. to  $\frac{1}{4}$  sec. cor., marked on brass cap  
1915 on S. rim;  
WC  $\frac{1}{4}$  S. of center;  
S22 in N. W. and  
S23 in N. E. quadrant; and raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.
- 57.61 Ridge bears N. E. and S. W. 557 ft. above 22.00 chn. point. Descend.  
80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 14, 15, 22 and 23, marked on brass cap  
1915 on S. rim;  
T14NR7W in N. half;  
S15 in N. W.  
S14 in N. E.

## 6 Completion of Subdivision of Sec. 14 N. Rg. 7 W.

Chains.

S23 in S. E. and  
 S22 in S. W. quadrant; and raise a mound of stone  
 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 693 ft. below ridge.  
 Land, mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Undergrowth, paloverde and catclaw.  
 Poor grass.  
 April 17; At this cor. I set off  $10^{\circ} 18\frac{1}{2}'$  N. on the decl.  
 arc; and observe the sun on the meridian at noon; the  
 resulting lat. is  $34^{\circ} 32\frac{1}{2}'$  N.

N.  $89^{\circ} 54'$  E. on a random line bet. secs. 14 and 23.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.12 Intersect N. and S. line 5 lks. N. of the cor. of secs.  
 13, 14, 23 and 24.  
 Thence I run S.  $89^{\circ} 56'$  W. on a true line bet. secs. 14  
 and 23.  
 Ascend N. E. slope through scattering brush.  
 15.50 237 ft. above cor. and along N. slope.  
 30.50 Descend.  
 40.06 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
 ground for  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1915 on S. rim;  
 $\frac{1}{4}$ S14 in N. and  
 S23 in S. half; and raise a mound of stone 2 ft.  
 base  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.  
 80.12 The cor. of secs. 14, 15, 22 and 23.  
 1011 ft. below 30.50 chn. point.  
 Land, mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Undergrowth, paloverde and catclaw.  
 Fair grass.

April 17, 1915.

April 24, 1915; At 7h. 00m. a.m., l.m.t., I set off  $34^{\circ}$   
 $32\frac{1}{2}'$  N. on the lat. arc;  $12^{\circ} 38\frac{1}{2}'$  N. on the decl. arc;  
 and determine a meridian with the solar at the cor. of  
 secs. 14, 15, 22 and 23  
 Thence I run  
 N.  $0^{\circ} 01'$  W. bet. secs. 14 and 15.  
 Descend along N. W. slope, scattering brush.  
 16.94 Sycamore Creek, 50 lks. wide course S. W. 52 ft. below cor.  
 Clear running water 6. ins. deep. Ascend.  
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
 ground for  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1915 on S. rim;  
 $\frac{1}{4}$ S15 in W. and  
 S14 in E. half; and raise a mound of stone 2 ft.  
 base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 63.00 Rim of mesa 826 ft. above creek, and over rolling top of  
 mesa.  
 80.00 Set an iron post 3 ft. long, 2 ins. diam., 18 ins. in the  
 ground, in a mound of stone, for cor. of secs. 10, 11,  
 14 and 15, marked on brass cap  
 1915 on S. rim;  
 T14NR7W in N. half;  
 S10 in N. W.  
 S11 in N. E.  
 S14 in S. E. and  
 S15 in S. W. quadrant; and raise a mound of stone  
 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 Land, mountainous.



## Completion of Subdivision of Tp. 14 N. Rg. 7 W.

7

Chains.

Soil, rocky; 4th. rate.

No timber.

Undergrowth, paloverde, catclaw and mesquite.

Poor grass.

April 24; At this cor. I set off  $12^{\circ} 42\frac{1}{2}'$  N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is  $34^{\circ} 33\frac{1}{2}'$  N.

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- N.  $89^{\circ} 56'$  E. on a random line bet. secs. 11 and 14.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.22 Intersect N. and S. line 12 lks. N. of the cor. of secs. 11, 12, 13 and 14.  
 Thence I run  
 N.  $89^{\circ} 59'$  W. on a true line bet. secs. 11 and 14.  
 Ascend through scattering brush.  
 1.50 Spur, brs. S. 20 ft. above cor. descend.  
 22.82 Wash 20 lks. wide course S. E. 204 ft. below spur. Ascend.  
 40.11 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap  
     1915 on S. rim;  
      $\frac{1}{4}$ S11 in N. and  
     S14 in S. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.  
 65.00 Rim of mesa 856 ft. above wash, and over rolling top of mesa.  
 80.22 The cor. of secs. 10, 11, 14 and 15.  
 Land, mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Undergrowth, paloverde and catclaw.

April 24, 1915.

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- May 17, 1915; At 7h. 00m. a.m., l.m.t., I set off  $34^{\circ} 33\frac{1}{2}'$  N. on the lat. arc;  $19^{\circ} 11\frac{1}{2}'$  N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 10, 11, 14 and 15.  
 Thence I run  
 N.  $0^{\circ} 01'$  W. bet. secs. 10 and 11.  
 Over rolling top of mesa. Scattering brush.  
 33.98 Rim of mesa 142 ft. above cor. Descend.  
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap  
     1915 on S. rim;  
      $\frac{1}{4}$ S10 in W. and  
     S11 in E. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 66.63 Wash 15 lks. wide course N. W. 508 ft. below mesa.  
 Ascend.  
 74.21 Spur, brs. W. 176 ft. above wash. Descend.  
 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 2, 3, 10 and 11, marked on brass cap  
     1915 on S. rim;  
     T14NR7W in N. half;  
     S3 in N. W.  
     S2 in N. E.  
     S11 in S. E. and  
     S10 in S. W. quadrant; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 165 ft. below spur.  
 Land, mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Undergrowth, paloverde and catclaw.  
 Fair grass.

## 8 Completion of Subdivision of [redacted] Tp. 14 N. Rg. 7 W.

Chains. May 17; At this cor. I set off  $19^{\circ} 13\frac{1}{2}'$  N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is  $34^{\circ} 34\frac{1}{2}'$  N.

40.00 S.  $89^{\circ} 59'$  E. on a random line bet. secs. 2 and 11.  
Set temp.  $\frac{1}{4}$  sec. cor.  
63.07 From this point line descends slope too precipitous to chain. I set flag on line S.  $89^{\circ} 59'$  E. and then go to flag and lay off a base N.  $0^{\circ} 01'$  E. 5.00 chs., from which point flag left on spur bears S.  $72^{\circ} 41'$  W., then  $5.00 \times \tan. 72^{\circ} 40' (3.20406) = 16.02$  chs. + 63.07 chs. =  
79.09 Point on line.  
80.20 Intersect N. and S. line 2 lks. S. of the true point for cor. of secs. 1, 2, 11 and 12.  
Thence I run  
West on a true line bet. secs. 2 and 11.  
6.40 Sycamore creek 50 lks. wide course S. clear running water 4 ins. deep. From here line ascends slope too steep to chain.  
17.13 Triangulation point on top of spur. 350 ft. above creek. Thence along rough broken N. slope.  
40.10 Set an iron post 3 ft. long, 1 in. diam., in a mound of stone for  $\frac{1}{4}$  sec. cor., marked on brass cap  
1915 on S. rim;  
 $\frac{1}{4}$ S2 in N. and  
S11 in S. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.  
80.20 The cor. of secs. 2, 3, 10 and 11.  
69 ft. below spur.  
Land, mountainous.  
Soil, rocky; 4th. rate.  
No timber.  
Undergrowth, paloverde and catclaw.  
Poor grass.

May 17, 1915.

May 19, 1915; At 7h. 00m. a.m., l.m.t., I set off  $34^{\circ} 34\frac{1}{2}'$  N. on the lat. arc;  $19^{\circ} 38'$  N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 2, 3, 10 and 11.

Thence I run  
N.  $0^{\circ} 01'$  W. on a random line bet. secs. 2 and 3. 19 lks.  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
80.02 Intersect N. bdy. of Tp. 12 lks. W. of the true point for cor. of secs. 2, 3, 34 and 35, which is 10 lks. S.  $89^{\circ} 59'$  E. of the W. C. to said cor. estab. by me as described in Book "A" from true point. I run  
S.  $0^{\circ} 04'$  W. on a true line bet. secs. 2 and 3.  
5.09 Spur bears W. Descend through scattering brush.  
24.54 Wash 20 lks. wide course N. E. 173 ft. below spur. Ascend.  
40.02 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap  
1915 on S. rim;  
 $\frac{1}{4}$ S3 in W. and  
S2 in E. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
42.93 Ridge bears E, and W. Descend.  
69.18 Wash 20 lks. wide course E. 101 ft. below ridge. Ascend.  
80.02 The cor. of secs. 2, 3, 10 and 11:  
239 ft. above wash.  
Land, mountainous.  
Soil, rocky; 4th. rate.  
No timber.  
Undergrowth, paloverde, catclaw and mesquite;  
Fair grass.

May 19, 1915.

Completion of Subdivision of Twp. 14 N. Rg. 7 W.

Chains. April 19, 1915; At 7h. 00m. a.m., l.m.t., I set off  $34^{\circ} 32'$  N. on the lat. arc;  $10^{\circ} 57\frac{1}{2}'$  N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 21, 22, 27 and 28, which is a stone, firmly set in the ground, marked and witnessed as described by the surveyor general.

Thence I run  
 N.  $0^{\circ} 02'$  W. bet. secs. 21 and 22.  
 Over level land, through dense brush.

4.00 Road bears N. W. and S. E.

38.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for witness cor. to  $\frac{1}{4}$  sec. cor. marked on brass cap 1915 on S. rim;  
 WC  $\frac{1}{4}$  N. of center;  
 S22 in S. E. and  
 S21 in S. W. quadrant; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

40.00 Point for  $\frac{1}{4}$  sec. cor. falls on edge of Sycamore Creek.

40.85 Sycamore Creek 50 lks. wide course S. W. clear running water 6 ins. deep.

45.00 Wash 15 lks. wide course S. E. Ascend through scattering brush.

72.40 Spur, brs. SW 295 ft. above creek. descend.

76.71 Wash 10 lks. wide course S. W. 87 ft. below spur. Ascend.

80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 15, 16, 21 and 22, marked on brass cap  
 1915 on S. rim;  
 T14NR7W in N. half;  
 S16 in N. W.  
 S15 in N. E.  
 S22 in S. E. and  
 S21 in S. W. quadrant; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 20 ft. above wash.  
 Land, level and mountainous.  
 Soil, S.  $\frac{1}{2}$  mile, rich sandy loam, dry, medium texture; 1st. rate; N.  $\frac{1}{2}$  mile, rocky; 4th. rate.  
 No timber.  
 Undergrowth, mesquite, catclaw and paloverde.  
 Fair grass.

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April 19; At this cor. I set off  $11^{\circ} 00\frac{1}{2}'$  N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is  $34^{\circ} 32\frac{1}{2}'$  N.

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S.  $89^{\circ} 59'$  E. on a random line bet. secs. 15 and 22.

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

80.08 Intersect N. and S. line 2 lks. S. of the cor. of secs. 14, 15, 22 and 23.

Thence I run  
 West on a true line bet. secs. 15 and 22.  
 Descend, scattering brush.

2.79 Sycamore Creek, course S. 26 ft. below cor. clear running water 6 ins. deep, 50 lks. wide; ascend. Road in creek.

40.04 Spur, brs. S. 707 ft. above creek.  
 Set an iron post 3 ft. long, 1 in. diam., in a mound of stone, for  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1915 on S. rim;  
 $\frac{1}{4}$  S15 in N. and  
 S22 in S. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.  
 Descend along S. W. slope.

75.00 Spur, brs. SW. 258 ft. below  $\frac{1}{4}$  sec. cor.

78.74 Wash 10 lks. wide course S. W. 110 ft. below spur. Ascend.

80.08 The cor. of secs. 15, 16, 21 and 22.  
 20 ft. above wash.  
 Land, mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.

## 100 Completion of Subdivision of Twp. 14 N. Rg. 7 W.

Chains.

Undergrowth, paloverde and catclaw.  
Poor grass.

April, 19, 1915.

April 27, 1915; At 3h. 00m. p.m., l.m.t., I set off  $34^{\circ}$   
 $32\frac{1}{2}'$  N. on the lat. arc;  $13^{\circ} 43\frac{1}{2}'$  N. on the decl. arc;  
and determine a meridian with the solar at the cor. of  
secs. 15, 16, 21 and 22.

Thence I run

N.  $0^{\circ} 02'$  W. bet. secs. 15 and 16.

Ascend through scattering brush.

12.85 Spur, brs. W. 444 ft. above cor. Descend.

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the

ground for  $\frac{1}{4}$  sec. cor., marked on brass cap

1915 on S. rim;

 $\frac{1}{4}$ S16 in W. and

S15 in E. half; and raise a mound of stone 2 ft.

base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

41.28 Wash 10 lks. wide course S. W. 245 ft. below spur. Ascend.

60.70 Rim of mesa 408 ft. above wash. and over rolling top of  
mesa.80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the  
ground for cor. of secs. 9, 10, 15 and 16, marked on  
brass cap

1915 on S. rim;

T14NR7W in N. half;

S9 in N. W.

S10 in N. E.

S15 in S. E. and

S16 in S. W. quadrant; and raise a mound of stone

2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

Land, mountainous.

Soil, rocky; 4th. rate.

No timber.

Undergrowth, paloverde and catclaw.

Poor grass.

April 27, 1915.

April 28, 1915.

East on a random line bet. secs. 10 and 15.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.80.08 Intersect N. and S. line 7 lks. S. of the cor. of secs.  
10, 11, 14 and 15.

Thence I run.

S.  $89^{\circ} 57'$  W. on a true line bet. secs. 10 and 15.

Over rolling top of mesa, scattering brush.

3.80 Descend.

8.66 Wash 15 lks. wide course S. W. 70 ft. below cor.

18.05 Spur, brs. S. 114 ft. above wash. Descend.

36.98 Wash 10 lks. wide course S. W. 290 ft. below spur.

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

1915 on S. rim;

 $\frac{1}{4}$ S10 in N. and

S15 in S. half; and raise a mound of stone 2 ft.

base  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.

44.41 Wash 10 lks. wide course S. W. Ascend.

59.40 Ridge bears N. and S. 304 ft. above wash. Descend.

67.44 Wash 20 lks. wide course S. W. 165 ft. below ridge.

70.53 Spur, brs. S. 69 ft. above wash.

73.17 Wash 10 lks. wide course S. E. 42 ft. below spur. Ascend.

80.08 The cor. of secs. 9, 10, 15 and 16.

141 ft. above wash.

Land, mountainous.

Soil, rocky; 4th. rate.

Chains.

No timber.  
 Undergrowth, paloverde and catclaw.  
 Fair grass.  
 Note: Clouds and rain prevented observations of the sun  
 for meridian and latitude.

April 28, 1915.

May 18, 1915: At 7h. 00m. a.m., l.m.t., I set off  $34^{\circ} 33\frac{1}{2}'$   
 N. on the lat. arc;  $19^{\circ} 25'$  N. on the decl. arc; and  
 determine a meridian with the solar at the cor. of secs.  
 9, 10, 15 and 16.

Thence I run

N.  $0^{\circ} 02'$  W. bet. secs. 9 and 10.

Over rolling top of mesa, scattering brush.

4.69 Wash 15 lks. wide course S. E.

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

1915 on S. rim;

 $\frac{1}{4}$ S9 in W. and

S10 in E. half; and raise a mound of stone 2 ft.

base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

52.63 Ridge bears N. W. and S. E. 120 ft. high. Descend.

67.72 Wash 5 lks. wide course S. E. 143 ft. below ridge. Ascend.

78.77 Spur, brs. E. 182 ft. above wash. Descend.

80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the  
 ground, for cor. of secs. 3, 4, 9 and 10, marked on  
 brass cap

1915 on S. rim;

T14NR7W in N. half;

S4 in N. W.

S3 in N. E.

S10 in S. E. and

S9 in S. W. quadrant; and raise a mound of stone

2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

84 ft. below spur.

Land, mountainous.

Soil, rocky; 4th. rate.

No timber.

Undergrowth, scattering catclaw.

Fair grass.

May 18; At this cor. I set off  $19^{\circ} 27'$  N. on the decl.  
 arc; and observe the sun on the meridian at noon; the  
 resulting lat. is  $34^{\circ} 34\frac{1}{2}'$  N.

N.  $89^{\circ} 57'$  E. on a random line, bet. secs. 3 and 10.40.00 Set temp.  $\frac{1}{4}$  sec. cor.80.16 Intersect N. and S. line at the cor. of secs. 2, 3, 10 and  
 11.

Thence I run

S.  $89^{\circ} 57'$  W. on a true line bet. secs. 3 and 10.

Descend along N. W. slope through scattering brush.

10.68 Wash 15 lks. wide course N. 230 ft. below cor. Ascend  
 along N. slope.

21.35 Wash 20 lks. wide course N. E.

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

1915 on S. rim;

 $\frac{1}{4}$ S3 in N. and

S10 in S. half; and raise a mound of stone 2 ft.

base  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.

80.16 The cor. of secs. 3, 4, 9 and 10.

473 ft. above wash.

Land, mountainous.

Soil, rocky; 4th. rate.

## 12 Completion of Subdivision of Tract. Tp. 14 N. Rg. 7 W.

Chains.

No timber.  
Undergrowth, Oak, catclaw and paloverde.  
Fair grass.

May 21, 1915: At 7h. 00m. a.m., l.m.t., I set off  $34^{\circ}$   
 $34'$  N. on the lat. arc;  $20^{\circ} 03\frac{1}{2}'$  N. on the decl. arc;  
and determine a meridian with the solar at the cor. of  
secs. 3, 4, 9 and 10.  
Thence I run  
N.  $0^{\circ} 02'$  W. on a random line bet. secs. 3 and 4.  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
79.98 Intersect N. bdy. of Tp. 21 lks. W. of the cor. of secs.  
3, 4, 33 and 34, estab. by me as described in Book "A"  
Thence I run.  
S.  $0^{\circ} 07'$  W. on a true line bet. secs. 3 and 4.  
Ascend through dense brush.  
1.90 Top of peak, 68 ft. above cor. Descend.  
32.45 Wash 20 lks. wide course S. E. 445 ft. below peak. Ascend.  
39.98 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
ground for  $\frac{1}{4}$  sec. cor., marked on brass cap  
1915 on S. rim;  
 $\frac{1}{4}$ S4 in W. and  
S3 in E. half; and raise a mound of stone 2 ft.  
base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
63.38 Spur, br. E. 345 ft. above wash. Descend.  
73.17 Wash 25 lks. wide course E. 256 ft. below spur. Ascend.  
79.98 The cor. of secs. 3, 4, 9 and 10.  
293 ft. below cor.  
Land, mountainous.  
Soil, rocky; 4th. rate.  
No timber.  
Undergrowth, oak, paloverde and catclaw.  
Fair grass.

May 21, 1915.

April 20, 1915; At 7h. 00m. a.m., l.m.t., I set off  $34^{\circ}$   
 $32'$  N. on the decl. arc;  $11^{\circ} 18\frac{1}{2}'$  N. on the decl. arc;  
and determine a meridian with the solar at the cor. of  
secs. 20, 21, 28 and 29, which is a rock in place,  
marked and witnessed as described by the surveyor  
general.  
Thence I run  
N.  $0^{\circ} 02'$  W. bet. secs. 20 and 21.  
Descend, through scattering brush.  
15.25 Santa Maria River 50 lks. wide course S. W. 194 ft. below  
cor. Clear running water 6 ins. deep.  
Ascend.  
32.79 Ridge bears S. W. and N. E. 107 ft. above river, and over  
rolling mountainous. land.  
40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
ground for  $\frac{1}{4}$  sec. cor., marked on brass cap  
1915 on S. rim;  
 $\frac{1}{4}$ S20 in W. and  
S21 in E. half; and raise a mound of stone 2 ft.  
base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
43.80 Road bears E. and W.  
69.30 Wash 20 lks. wide course S. W. 36 ft. below ridge. Ascend.  
80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the  
ground for cor. of secs. 16, 17, 20 and 21, marked on  
brass cap  
1915 on S. rim;  
T14NR7W in N. half;  
S17 in N. W.  
S16 in N. E.  
S21 in S. E. and  
S20 in S. W. quadrant; and raise a mound of stone

Chains.

2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 140 ft. above wash.  
 Land, mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Undergrowth, greasewood, paloverde and catclaw.  
 Poor grass.  
 April 20: At this cor. I set off  $11^{\circ} 21\frac{1}{2}'$  N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is  $34^{\circ} 32\frac{1}{2}'$  N.

N.  $89^{\circ} 57'$  E. on a random line bet. secs. 16 and 21.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.14 Intersect N. and S. line 2 lks. S. of the cor. of secs. 15, 16, 21 and 22.  
 Thence I run  
 S.  $89^{\circ} 56'$  W. on a true line bet. secs. 16 and 21.  
 Along rough general S. slope, through scattering brush.  
 13.49 Wash 20 lks. wide course S. 69 ft. below cor.  
 24.04 Wash 25 lks. wide course S. 69 ft. below cor.  
 33.44 Spur, S. 109 ft. above wash.  
 40.07 Set an iron post 3 ft. long, 1 in. diam., in a mound of stone for  $\frac{1}{4}$  sec. cor., marked on brass cap  
     1915 on S. rim;  
      $\frac{1}{4}$ S16 in N. and  
     S21 in S. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 71.65 Wash 25 lks. wide course S. 83 ft. below spur. Ascend.  
 80.14 The cor. of secs. 16, 17, 20 and 21.  
 142 ft. above wash.  
 Land, mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Undergrowth, paloverde and catclaw.  
 Fair grass.

April 20, 1915.

May 3, 1915; At 7h. 00m. a.m., l.m.t., I set off  $34^{\circ} 32\frac{1}{2}'$  N. on the lat. arc;  $15^{\circ} 29\frac{1}{2}'$  N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 16, 17, 20 and 21,

Thence I run  
 N.  $0^{\circ} 02'$  W. bet. secs. 16 and 17.  
 5.58 Wash 20 lks. wide course S. E. 72 ft. below cor. Ascend, through scattering brush.  
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap  
     1915 on S. rim;  
      $\frac{1}{4}$ S17 in W. and  
     S16 in E. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 48.82 Rim of mesa 798 ft. above wash. and over rolling top of mesa.  
 80.00 Set an iron post 3 ft. long, 2 ins. diam., 18 ins. in the ground in a mound of stone, for cor. of secs. 8, 9, 16, and 17, marked on brass cap  
     1915 on S. rim;  
     T14NR7W in N. half;  
     S8 in N. W.  
     S9 in N. E.  
     S16 in S. E. and  
     S17 in S. W. quadrant; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 Land, mountainous.  
 Soil, rocky; 4th. rate.

## 14 Completion of Subdivision of 1st 1/2. Tp. 14 N. Rg. 7 W.

Chains

No timber.  
Undergrowth, paloverde and catclaw.  
Poor grass.  
May 3: At this cor. I set off  $15^{\circ} 32'$  N. on the decl. arc;  
and observe the sun on the meridian at noon; the result-  
ing lat. is  $34^{\circ} 33\frac{1}{2}'$  N.

N.  $89^{\circ} 56'$  E. on a random line bet. secs. 9 and 16.  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
80.16 Intersect N. and S. line 2 lks. N. of the cor. of secs.  
9, 10, 15 and 16.  
Thence I run  
S.  $89^{\circ} 57'$  W. on a true line bet. secs. 9 and 16.  
Over rolling top of mesa, through scattering brush.  
40.08 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
ground for  $\frac{1}{4}$  sec. cor., marked on brass cap  
1915 on S. rim;  
 $\frac{1}{4}$ S9 in N. and  
S16 in S. half; and raise a mound of stone 2 ft.  
base  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.  
80.16 The cor. of secs. 8, 9, 16 and 17.  
Land, mountainous.  
Soil, rocky; 4th. rate.  
No timber.  
Fair grass.

May 3, 1915.

May 20, 1915; At 7h. 00m. a.m., l.m.t., I set off  $34^{\circ}$   
 $33\frac{1}{2}'$  N. on the lat. arc;  $19^{\circ} 51'$  N. on the decl. arc;  
and determine a meridian with the solar at the cor. of  
secs. 8, 9, 16 and 17.  
Thence I run  
N.  $0^{\circ} 02'$  W. bet. secs. 8 and 9.  
Over rolling mesa, gradually descending, through scatter-  
ing brush.  
24.12 Descent becomes steep. 129 ft. below cor.  
35.88 Wash 20 lks. wide course S. W. 232 ft. below 24.12 chn.  
point. Ascend.  
40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
ground for  $\frac{1}{4}$  sec. cor., marked on brass cap  
1915 on S. rim;  
 $\frac{1}{4}$ S8 in W. and  
S9 in E. half; and raise a mound of stone 2 ft.  
base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
53.73 Rim of mesa and over rolling mesa. 300 ft. above wash.  
71.83 Descend.  
80.00 True point for cor. <sup>of secs 4, 5, 8 & 9</sup> falls in wash 20 lks. wide course  
S. E. 121 ft. below 71.83 chn. point. W. C. to this cor. set  
15 lks. N.  $0^{\circ} 10'$  E. as described in notes of line bet. secs. 4 & 5.  
Land, mountainous. Soil, rocky, 4th rate.  
No timber.  
Undergrowth, oak and catclaw.  
Fair grass.  
May 20; At this cor. I set off  $19^{\circ} 53'$  N. on the decl.  
arc; and observe the sun on the meridian at noon; the  
resulting lat. is  $34^{\circ} 34\frac{1}{2}'$  N.

N.  $89^{\circ} 57'$  E. on a random line bet. secs. 4 and 9.  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
80.14 Intersect N. and S. line 16 lks. N. of the cor. of secs.  
3, 4, 9 and 10.  
Thence I run



Completion of Subdivision of frac1. Tp. 14 N. Rg. 7 W.

Chains. N. 89° 56' W. on a true line bet. secs. 4 and 9.  
 Along N. slope, ascending, through scattering brush.  
 29.19 Rim of mesa 146 ft. above cor. and over rolling mesa.  
 40.07 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
 ground for  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1915 on S. rim;  
 $\frac{1}{4}$ S4 in N. and  
 S9 in S. half; and raise a mound of stone 2 ft.  
 base  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.  
 66.87 Descend.  
 80.14 The true point for cor. of secs. 4, 5, 8 and 9.  
 124 ft. below 66.87 chn. point.  
 Land, mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Undergrowth, oak and catclaw.  
 Fair grass.

May 20, 1915.

May 21, 1915.  
 N. 0° 02' W. on a random line bet. secs. 4 and 5, from  
 true point for cor.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 79.96 Intersect N. bdy. of Tp. 28 lks. W. of the cor. of secs.  
 4, 5, 32 and 33, estab. by me as described in Book "A."  
 Thence I run  
 S. 0° 10' W. on a true line bet. secs. 4 and 5.  
 Over rolling mesa, through scattering brush.  
 39.96 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
 ground for  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1915 on S. rim;  
 $\frac{1}{4}$ S5 in W. and  
 S4 in E. half; and raise a mound of stone 2 ft.  
 base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 62.00 Descend.  
 79.81 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the  
 ground for W.C. to cor. of secs, 4, 5, 8 and 9, marked  
 on brass cap  
 1915 on S. rim;  
 WC S. of center;  
 T14NR7W in N. half;  
 S5 in N. W.  
 S4 in N. E.  
 S9 in S. E. and  
 S8 in S. W. quadrant; and raise a mound of stone  
 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 79.96 The true point for cor. of secs. 4, 5, 8 and 9.  
 211 ft. below 62.00 chn. point.  
 Land, mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Undergrowth, oak and catclaw.  
 Fair grass.

May 21, 1915.

April 12, 1915. From cor. of secs. 31 and 32, on S. bdy. of Tp.  
 as estab. by me, as described in Book "A" I run,  
 N. 0° 03' W. bet. secs. 31 and 32.  
 Descend through scattering brush.  
 5.01 Wash 15 lks. wide course S. W. ascend. 37 ft. below cor.  
 16.80 Ridge bears E. and W. 209 ft. above wash. descend.  
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
 ground for  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1915 on S. rim;  
 $\frac{1}{4}$ S31 in W. and

## 16 Completion of Subdivision of Twp. 14 N. Rg. 7 W.

Chains. S32 in E. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

43.20 Wash 20 lks. wide course N. W. 529 ft. below ridge. Ascend.

55.07 Ridge bears N. W. and S. E. 208 ft. above wash. Descend.

80.00 Set an iron post 3 ft. long, 2 ins. diam., in a mound of stone for cor. of secs. 29, 30, 31 and 32, marked on brass cap  
 1915 on S. rim;  
 T14NR7W in N. half;  
 S30 in N. W.  
 S29 in N. E.  
 S32 in S. E. and  
 S31 in S. W. quadrant; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

Land, mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Undergrowth, paloverde, catclaw.  
 Poor grass.  
 313 ft. below ridge.

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40.00 East on a random line bet. secs. 29 and 32. Set temp.  $\frac{1}{4}$  sec. cor.

79.90 Intersect N. and S. line 12 lks. N. of the cor. of secs. 28, 29, 32 and 33, which is a stone, firmly set in the ground, marked and witnessed as described by the survey or general.  
 Thence I run  
 N.  $89^{\circ}55'$  W. on a true line bet. secs. 29 and 32.  
 Descend, through scattering brush.

32.86 Wash 15 lks. wide course N. W. 361 ft. below cor. Ascend.

36.74 Spur 28 ft. above wash, brs. NW, descend.

39.95 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1915 on S. rim;  
 $\frac{1}{4}$ S29 in N. and  
 S32 in S. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

41.25 Wash 15 lks. wide course S. W. 31 ft. below spur. Ascend.

59.69 Ridge bears N. E. and S. W. 177 ft. above wash. Descend.

79.90 The cor. of secs. 29, 30, 31 and 32.  
 318 ft. below ridge.  
 Land, mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Undergrowth, paloverde and catclaw.  
 Poor grass.

April 12, 1915.

April 13, 1915: At 7h. 00m. a.m., l.m.t., I set off  $34^{\circ}31'$  N. on the lat. arc;  $8^{\circ}49\frac{1}{2}'$  N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 29, 30, 31 and 32.

Thence I run  
 West on a random line bet. secs. 30 and 31.

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

77.43 Intersect W. bdy. of Tp. at the cor. of secs. 25, 30, 31 and 36, estab. by sp. as described in Book "A"  
 Thence I run  
 East on a true line bet. secs. 30 and 31.  
 Ascend, through scattering brush.

26.76 Ridge bears N. E. and S. W. 86 ft. above cor. Descend.

37.43 Set an iron post 3 ft. long, 1 in. diam., 14 ins. in the ground, in a mound of stone, for  $\frac{1}{4}$  sec. cor., marked on

Chains.	brass cap 1915 on S. rim; $\frac{1}{4}$ S30 in N. and S31 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. Ascend. 150 ft. below ridge.
64.72	Ridge bears N. E. and S. W. 228 ft. above $\frac{1}{4}$ sec. cor. Descend.
76.02	Santa Maria River 40 lks. wide course S. 356 ft. below ridge. Clear running water, 8 ins. deep. Ascend.
77.43	The cor. of secs. 29, 30, 31 and 32. 15 ft. above river. Land, mountainous. Soil rocky; 4th. rate. No timber. Undergrowth, paloverde and catclaw. Poor grass. April 13: At this cor. I set off $8^{\circ} 52\frac{1}{2}'$ N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $34^{\circ} 31'$ N.
<hr/>	
	N. $0^{\circ} 03'$ W. bet. secs. 29 and 30. Descend along N. W. slope.
4.00	Santa Maria River 50 lks. wide course S. W. 15 ft. below cor. Clear running water 6 ins. deep. Ascend along rough S. E. slope through scattering brush.
16.04	Spur, $\frac{1}{2}$ E. 188 ft. above river. Descend.
27.53	33 ft. below spur. Ascend.
34.68	Spur, $\frac{1}{2}$ E. 119 ft. above 27.53 chn. point. Descend.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap 1915 on S. rim; $\frac{1}{4}$ S30 in W. and S29 in E. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
50.02	Santa Maria River 50 lks. wide course S. W. 316 ft. below spur. Clear running water 6 ins. deep. Ascend.
55.25	Spur, $\frac{1}{2}$ W. 108 ft. above river. Descend.
63.02	27 ft. below spur. Ascend.
74.83	Ridge bears E. and W. 122 ft. above 63.02 chn. point. Descend.
80.00	Set an iron post 3 ft. long, 2 ins. 24 lbs. in the ground for cor. of secs. 19, 20, 29 and 30, marked on brass cap 1915 on S. rim; T14NR7W in N. half; S19 in N. W. S20 in N. E. S29 in S. E. and S30 in S. W. quadrant; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky; 4th. rate. No timber. Undergrowth, paloverde, mesquite and catclaw. Fair grass.
April 13, 1915.	
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	April 14, 1915: At 7h. 00m. a.m., l.m.t., I set off $34^{\circ}$ $32'$ N. on the lat. arc; $9^{\circ} 11'$ N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 19, 20, 29 and 30. Thence I run S. $89^{\circ} 55'$ E. on a random line bet. secs. 20 and 29.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect N. and S. line, 7 lks. S. of the cor. of secs.

## 18 Completion of Subdivision of Ince. Tp. 14 N. Rg. 7 W.

Chains.	20, 21, 28 and 29, <del>hereinbefore</del> described.
	Thence I run
	N. $89^{\circ} 58'$ W. on a true line bet. secs. 20 and 29.
	Ascend, through scattering brush.
24.84	Spur, brs NE. 392 ft. above cor. Descend.
34.06	54 ft. below spur. Ascend.
40.01	Set an iron post 3 ft. long, 1 in. diam., in a mound of stone for $\frac{1}{4}$ sec. cor., marked on brass cap
	1915 on S. rim;
	$\frac{1}{4}$ S20 in N. and
	S29 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
40.81	Spur, brs N. 187 ft. above 34.06 chn. point. Descend.
80.02	The cor. of secs. 19, 20, 29 and 30.
	403 ft. below spur.
	Land, mountainous.
	Soil, rocky; 4th. rate.
	No timber.
	Undergrowth, paloverde, catclaw and mesquite.
	Fair grass.
	April 14: At this cor. I set off $9^{\circ} 14\frac{1}{2}'$ N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $34^{\circ} 32'$ N.
	West on a random line bet. secs. 19 and 30.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
77.40	Intersect W. bdy. of Tp. 2 lks. S. of the cor. of secs. 19, 24, 25 and 30, <del>estab. by me as described in Book "A"</del>
	Thence I run
	S. $89^{\circ} 59'$ E. on a true line bet. secs. 19 and 30.
	Descending gradually over rolling mountainous land, through scattering brush.
37.40	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap
	1915 on S. rim;
	$\frac{1}{4}$ S19 in N. and
	S30 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
59.40	Descend bluff 60 ft. high.
63.10	Santa Maria River 50 lks. wide course S. 135 ft. below W. bdy. Clear running water 6 ins. deep. and over level
74.40	land, through dense brush.
77.40	Wash 40 lks. wide course SW. The cor. of secs. 19, 20, 29 and 30.
	Land, mountainous.
	Soil, rocky; 4th. rate.
	No timber.
	Undergrowth, paloverde, catclaw, mesquite and greasewood.
	Fair grass.
	April 14, 1915.
	April 21, 1915: At 7h. 00m. a.m., l.m.t., I set off $34^{\circ} 32'$ N. on the lat. arc; $11^{\circ} 38\frac{1}{2}'$ N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 19, 20, 29 and 30.
	Thence I run
	N. $0^{\circ} 03'$ W. bet. secs. 19 and 20.
	Over level land, through dense brush.
1.45	Wash 40 lks. wide course S. W.
15.35	Road bears E. and W.
23.58	Santa Maria River 60 lks. wide course W. 19 ft. below cor. Ascend bluff 20 ft. high. 25.60
25.60	Top of bluff and over nearly level land, gradually ascending.
27.30	Road bears E. and W.

Chains.

40.00 Set an iron post 3 ft. long, 1 in. diam., 12 ins. in the ground, in a mound of stone, for  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1915 on S. rim;  
 $\frac{1}{4}$ S19 in W. and  
 S20 in E. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

46.30 Ascend along W. slope of ridge.

52.00 Spur, ~~by~~ W. 40 ft. above river. Descend.

55.14 Wash 25 lks. wide course S. W. 40 ft. below spur. Ascend.

65.25 Rim of mesa 140 ft. above wash. And over rolling top of mesa.

80.00 Set an iron post 3 ft. long, 2 ins. diam., in a mound of stone for cor. of secs. 17, 18, 19 and 20, marked on brass cap  
 1915 on S. rim;  
 T14NR7W in N. half;  
 S18 in N. W.  
 S17 in N. E.  
 S20 in S. E. and  
 S19 in S. W. quadrant; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

Land, mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Undergrowth, Mesquite, paloverde and catclaw.  
 Poor grass.

S.  $89^{\circ} 58'$  E. on a random line bet. secs. 17 and 20.

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

80.04 Intersect N. and S. line 21 lks. S. of the cor. of secs. 16, 17, 20 and 21.  
 Thence I run  
 S.  $89^{\circ} 53'$  W. on a true line bet. secs. 17 and 20.  
 Ascend through scattering brush.

17.54 136 ft. above cor. and over rolling top of mesa.

40.02 Set an iron post 3 ft. long, 1 in. diam., in a mound of stone for  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1915 on S. rim;  
 $\frac{1}{4}$ S17 in N. and  
 S20 in S. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.

Descend.

65.71 Wash 20 lks. wide course S. 234 ft. below  $\frac{1}{4}$  sec. cor.  
 Ascend.

71.45 Ridge bears N. and S. 97 ft. above wash. Descend.

74.83 Wash 30 lks. wide course S. 135 ft. below ridge. Ascend.

80.04 The cor. of secs. 17, 18, 19 and 20.  
 153 ft. above wash.  
 Land, mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Undergrowth, paloverde and catclaw.

April 21: At thsi cor. I set off  $11^{\circ} 42'$  N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is  $34^{\circ} 32\frac{1}{2}'$  N.

N.  $89^{\circ} 59'$  W. on a random line bet. secs. 18 and 19.

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

77.38 Intersect W. bdy. of Tp. 7 lks. S. of the cor. of secs. 13, 18, 19 and 24, ~~estab. by the as described in Book "A."~~  
 Thence I run  
 S.  $89^{\circ} 56'$  E. on a true line bet. secs. 18 and 19.  
 Ascend, through scattering brush.

17.39 171 ft. above cor. and over rolling mesa.

20 Completion of Subdivision of Tract. Tp. 14 N. Rg. 7 W.

Chains.

37.38 Set an iron post 3 ft. long, 1 in. diam., in a mound of stone for  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1915 on S. rim;  
 $\frac{1}{4}$ S18 in N. and  
 $\frac{1}{4}$ S19 in S. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.

39.29 Descend.

56.05 Wash 15 lks. wide course S. 91 ft. below mesa. Ascend.

69.39 91 ft. above wash and over nearly level land.

77.38 The cor. of secs. 17, 18, 19 and 20.  
 Land, mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Undergrowth, paloverde and catclaw.

April 21, 1915.

May 4, 1915; At 7h. 00m. a.m., l.m.t., I set off  $34^{\circ} 32\frac{1}{2}'$  N. on the lat. arc;  $15^{\circ} 47'$  N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 17, 18, 19 and 20.

Thence I run N.  $0^{\circ} 03'$  W. bet. secs. 17 and 18. Over rolling mesa through scattering brush.

9.20 Descend into canon.

12.56 Wash 30 lks. wide course S. E. 136 ft. below 9.20 chn. point. Ascend.

22.40 140 ft. above wash. Over level land.

24.28 S. edge of canon 200 ft. deep precipitous sides, impossible to chain across. I set flag on line on N. side of canon and lay off a base N.  $89^{\circ} 57'$  E. 2.00 chs. from which point, angle to flag is  $72^{\circ} 54'$  then  $2.00 \times \tan. 72^{\circ} 54'$  ( $3.25055$ ) =  $6.50 + 24.28 =$

30.78 Flag on N. side of canon.

31.00 Set an iron post 3 ft. long, 1 in. diam., in a mound of stone for witness cor. to  $\frac{1}{4}$  sec. cor., marked on brass cap

1915 on S. rim;  
 WC  $\frac{1}{4}$  in N. half;  
 S17 in S. E. and  
 S 18 in S. W. quadrant; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

Line north runs up canon too rough to chain, therefore I set flag on line N.  $0^{\circ} 03'$  W. and lay off a base S.  $89^{\circ} 57'$  W. 11.00 chs. from which point angle to flag is  $70^{\circ} 15'$  then,  $11.00 \times \tan. 70^{\circ} 15'$  ( $2.7852$ ) = 30.64

40.00 Point for  $\frac{1}{4}$  sec. cor. falls in canon. Impossible to reach point.

$30.64 + 31.00 = 61.64$

61.64 Flag on N. side of canon, and over mesa.

75.54 Descend.

78.29 Wash 10 lks. wide course N. W. 44 ft. below 75.54 chn. point. Ascend.

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

1915 on S. rim;  
 T14NR7W in N. half;  
 S7 in N. W.  
 S8 in N. E.  
 S17 in S. E. and  
 S18 in S. W. quadrant; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

Land, rough and mountainous.

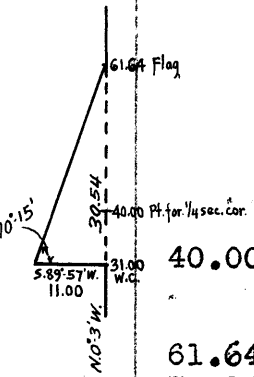
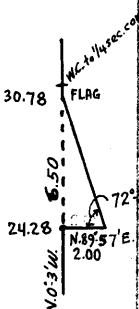
Soil, rocky; 4th. rate.

No timber.

Undergrowth, paloverde and catclaw.

Poor grass.

May 4: At this cor. I set off  $15^{\circ} 49\frac{1}{2}'$  N. on the decl.



Chains. arc; and observe the sun on the meridian at noon; the resulting lat. is  $34^{\circ} 33\frac{1}{2}'$  N.

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N.  $89^{\circ} 53'$  E. on a random line bet. secs. 8 and 17.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 79.80 Intersect N. and S. line 12 lks. N. of the cor. of secs. 8, 9, 16 and 17.  
 Thence I run  
 S.  $89^{\circ} 58'$  W. on a true line bet. secs. 8 and 17.  
 Over rolling top of mesa, through scattering brush.  
 16.70 Descend.  
 34.79 Wash 20 lks. wide course S. W. 669 ft. below 16.70 chn. point. Ascend.  
 39.90 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1915 on S. rim;  
 $\frac{1}{4}$ S8 in N. and  
 S17 in S. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.  
 47.57 Spur, brs SW. 262 ft. above wash. Descend.  
 79.80 The cor. of secs. 7, 8, 17 and 18.  
 343 ft. below spur.  
 Land, mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Undergrowth, paloverde, catclaw and oak.  
 Poor grass.

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N.  $89^{\circ} 56'$  W. on a random line bet. secs. 7 and 18.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 77.30 Intersect W. bdy. of Tp. 5 lks. N. of the cor. of secs. 7, 12, 13 and 18, estab. by me as described in Book "A."  
 Thence I run  
 S.  $89^{\circ} 58'$  E. on a true line bet. secs. 7 and 18.  
 Descend gradually through scattering brush.  
 29.55 Wash 20 lks. wide course S. 100 ft. below cor. Ascend.  
 34.83 Spur, brs SW. 99 ft. above wash. Descend.  
 37.30 Set an iron post 3 ft. long, 1 in. diam., in a mound of stone for  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1915 on S. rim;  
 $\frac{1}{4}$ S7 in N. and  
 S18 in S. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.  
 63.26 Wash 30 lks. wide course S. 236 ft. below spur. Ascend.  
 73.85 Wash 10 lks. wide course N. W. 72 ft. above last wash.  
 77.30 The cor. of secs. 7, 8, 17 and 18.  
 107 ft. above last wash.  
 Land, mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Undergrowth, paloverde and catclaw.  
 Poor grass.

May 4, 1915.

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May 22, 1915; At 7h. 00m. a.m., l.m.t., I set off  $34^{\circ} 33\frac{1}{2}'$  N. on the lat. arc;  $20^{\circ} 16'$  N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 7, 8, 17 and 18.  
 Thence I run  
 N.  $0^{\circ} 03'$  W. bet. secs. 7 and 8.  
 Ascend, through scattering brush.  
 36.59 Spur, brs W. 427 ft. above cor.

## 22 Completion of Subdivision of Tract. Tp. 14 N. Rg. 7 W.

Chains.	Descend.
40.00	Set an iron post 3 ft. long, 1 in. diam., 10 ins. in the ground in a mound of stone for $\frac{1}{4}$ sec. cor., marked on brass cap 1915 on S. rim; $\frac{1}{4}$ S7 in W. and S8 in E. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
53.60	Cross wash 20 lks. wide course S. W. 143 ft. below spur. Ascend.
80.00	Set an iron post 3 ft. long, 2 in. diam., 24 ins. in the ground for cor. of secs. 5, 6, 7 and 8, marked on brass cap 1915 on S. rim; T14NR7W in N. half; S6 in N. W. S5 in N. E. S8 in S. E. and S7 in S. W. quadrant; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. 736 ft. above wash. Land, mountainous. Soil, rocky; 4th. rate. No timber. Undergrowth, oak, paloverde and catclaw. Fair grass. May 22: At this cor. I set off $20^{\circ} 17\frac{1}{2}'$ N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $34^{\circ} 34\frac{1}{2}'$ N.
	N. $89^{\circ} 58'$ E. on a random line bet. secs. 5 and 8.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.88	Intersect N. and S. line 2 lks. S. of the true pt. for cor. of secs. 4, 5, 8 and 9, the true point for cor. Thence I run, from true point for cor. S. $89^{\circ} 57'$ W. on a true line bet. secs. 5 and 8. Ascend through scattering brush.
12.86	208 ft. above cor. Over rolling mesa.
31.86	Descend.
39.94	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap 1915 on S. rim; $\frac{1}{4}$ S5 in N. and S8 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
65.08	Wash 20 lks. wide course S. 235 ft. below 31.86 chn. point. Ascend.
78.70	Ridge bears N. and S. 243 ft. above wash. Descend.
79.88	The cor. of secs. 5, 6, 7 and 8. 34 ft. below ridge. Land, mountainous. Soil, rocky; 4th. rate. No timber. Undergrowth, oak and catclaw. Fair grass.
	May 22, 1915.
	May 24, 1915; At 7h. 00m. a.m., l.m.t., I set off $34^{\circ} 34\frac{1}{2}'$ N. on the lat. arc; $20^{\circ} 39\frac{1}{2}'$ N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 5, 6, 7 and 8. Thence I run N. $89^{\circ} 58'$ W. on a random line bet. secs. 6 and 7.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
77.26	Intersect W. bdy. of Tp. 7 lks. N. of the cor. of secs.



Chains. 1, 6, 7 and 12, estab. by me as described in Book "A."  
 Thence I run  
 N. 89° 59' E. on a true line bet. secs. 6 and 7.  
 1.30 Ridge bears N. and S. Descend.  
 6.30 96 ft. below ridge. Ascend.  
 14.89 Ridge bears N. and S. 114 ft. above 6.30 chn. point.  
 Descend.  
 37.26 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
 ground for  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1915 on S. rim;  
 $\frac{1}{4}$ S6 in N. and  
 S7 in S. half; and raise a mound of stone 2 ft.  
 base  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.  
 47.52 Wash 30 lks. wide course S. 571 ft. below ridge. Clear  
 running water 4 ins. deep. Dry in summer. Ascend.  
 77.26 The cor. of secs. 5, 6, 7 and 8.  
 705 ft. above wash.  
 Land, mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Undergrowth, oak.  
 Poor grass.

May 24, 1915.

May 25, 1915; At 7h. 00m. a.m., 1.m.t., I set off 34°  
 $34\frac{1}{2}$ ' N. on the lat. arc; 20° 50 $\frac{1}{2}$ ' N. on the decl. arc;  
 and determine a meridian with the solar at the cor. of  
 secs. 5, 6, 7 and 8.  
 Thence I run  
 N. 0° 03' W. on a random line bet. secs. 5 and 6.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.12 Intersect N. bdy. of Tp. 19 lks. W. of the cor. of secs.  
 5, 6, 31 and 32, estab. by me as described in Book "A."  
 Thence I run  
 S. 0° 05' W. on a true line bet. secs. 5 and 6.  
 Descend, through scattering brush.  
 19.76 Wash 20 lks. wide course W. 199 ft. below cor. Ascend.  
 40.12 Set an iron post 3 ft. long, 1 in. diam., 12 ins. in the  
 ground, in a mound of stone, for  $\frac{1}{4}$  sec. cor., marked on  
 brass cap.  
 1915 on S. rim;  
 $\frac{1}{4}$ S6 in W. and  
 S5 in E. half; and raise a mound of stone 2 ft.  
 base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 72.64 Spur, br. W. 313 ft. above wash. Descend.  
 80.12 The cor. of secs. 5, 6, 7 and 8. 136 ft. below spur.  
 Land, mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Undergrowth, oak, catclaw and mtn. mahogany.  
 Fair grass.

May 25, 1915.

GENERAL DESCRIPTION.

This township is rough and mountainous, and the soil is  
 rocky and worthless, excepting about 100 acres in the S.  
 E.  $\frac{1}{4}$  of sec. 22 which is very fertile.  
 There is no timber in the township and no settlers in the  
 portion surveyed under this assignment.  
 The township is well watered. Fair grass is found on the  
 mesas. The formation is volcanic except in the extreme  
 N. W. and S. W. parts of the township, which are of  
 granite formation

*John D. Kesse*  
 U. S. Surveyor.

BOOK 2870

For FINAL OATH OF UNITED STATES SURVEYOR.  
(See Book "B" 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, FEB 18 \_\_\_\_\_, 1916.

The foregoing field notes of the survey of the Completion of the \_\_\_\_\_

Subdivision Lines of \_\_\_\_\_

Township 14 North, Range 7 West,

of the Gila and Salt River Base and Meridian, in the State of Arizona, executed by John F. Hesse, U. S. Surveyor, under his special instructions dated September 26, 1914, for Group 37-191\_\_\_\_, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

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.~~