

2694

4-679

BOOK 2694

Book "A."
Exteriors.

247

orig (1)

FIELD NOTES

OF THE SURVEY OF THE

West boundary of Township 5 South, Range 13 West,

North boundary of Township 5 South, Range 13 West,

West boundary of Township 5 South, Range 14 West,

North boundary of Township 5 South, Range 14 West,

West boundary of Township 5 South, Range 15 West,

North boundary of Township 5 South, Range 15 West,

North boundary of Township 5 South, Range 16 West,

East boundary of Township 4 South, Range 13 West,

North boundary of Township 4 South, Range 13 West,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

W. K. Kierulff,

In the capacity of U. S. Transitman, under instructions dated February 26., 1913, issued by the United States Surveyor General to govern surveys included in Group No. 28, which were approved by the Commissioner of the General Land Office, March 12., 1913, pursuant to authority contained in the Act of August 23, 1912, and Congress dated June 23., 1913.

Survey commenced June 2., 1913.

Survey completed September 27., 1913.

INDEX DIAGRAM.

Township _____, Range _____

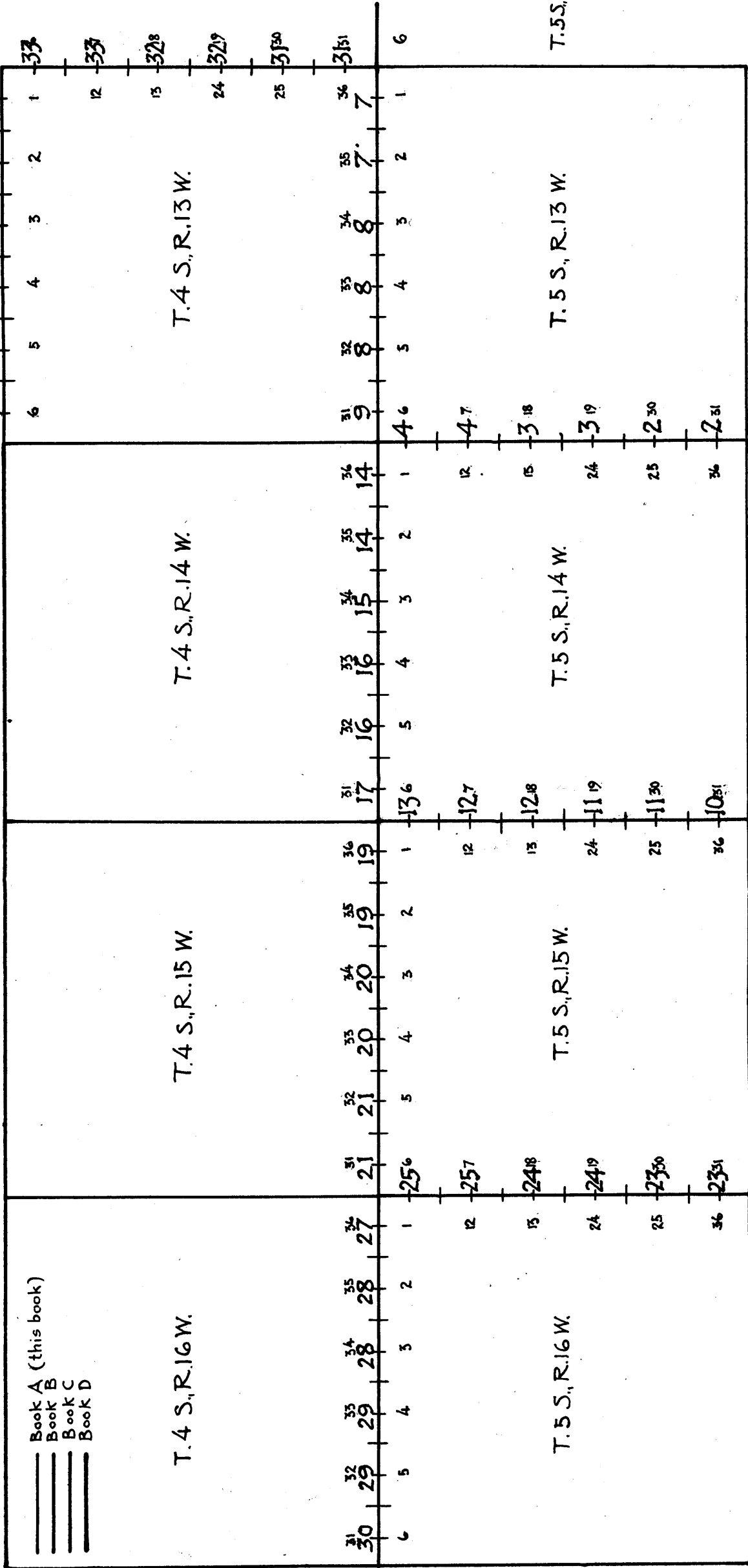
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BOOK 2694

BOOK 2694

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1A



Book A (this book)
Book B
Book C
Book D

First Standard Parallel South

Random West bdy. of Township 5 South, Range 13 West. 1.

Chains.

Survey commenced June 2, 1913.
At the old standard cor. of Ts. 5 S., Rs. 13 and 14 W., on the First Standard Parallel South, which is a wood post, 4 ins. sq., marked and witnessed as described by the Surveyor General.

Note: At noon, at the above cor., I set off 22°12'N. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 32° 57' N.

Thence I run,
North, on a random line, bet. secs. 31 and 36, W. bdy. T. 5 S., R. 13 W.

40.00
80.00

Set temp. $\frac{1}{4}$ sec. cor. of secs. 31 and 36.
Set temp. cor. of secs. 25, 30, 31 and 36.

North, on a random line, bet. secs. 25 and 30.
Set temp. $\frac{1}{4}$ sec. cor. of secs. 25 and 30.

40.00

Note: At this point, at 3h. Om. p.m., l.m.t., I set off 32°58 $\frac{1}{2}$ 'N. on the lat. arc; 22°13'N. on the decl. arc; and determine a meridian with the solar.

80.00

Set temp. cor. of secs. 19, 24, 25 and 30.

June 2, 1913.

June 3, 1913: At 8h. Om. a.m., l.m.t., at the temp. cor. of secs. 19, 24, 25 and 30, I set off 32° 59'N. on the lat. arc; 22°18'N. on the decl. arc, and determine a meridian with the solar.

Thence I run,
North, on a random line, bet. secs. 19 and 24.

40.00
80.00

Set temp. $\frac{1}{4}$ sec. cor. of secs. 19 and 24.
Set temp. cor. of secs. 13, 18, 19 and 24.

Note: At noon, I set off 22° 19'N. on the decl. arc, at the temp. cor. of secs. 13, 18, 19 and 24, and observe the sun on the meridian; the resulting lat. is 33° 59 $\frac{1}{2}$ 'N.

Thence I run,
North, on a random line, bet. secs. 13 and 18.

40.00
80.00

Set temp. $\frac{1}{4}$ sec. cor. of secs. 13 and 18.
Set temp. cor. of secs. 7, 12, 13 and 18.

June 3, 1913.

June 4, 1913: At 8h. Om. a.m., l.m.t., I set off 22°26'N. on the decl. arc, and 33°0'N. on the lat. arc, at the temp. cor. of secs. 7, 12, 13 and 18, and determine a meridian with the solar.

Thence I run,
North, on a random line, bet. secs. 7 and 12.

40.00
80.00

Set temp. $\frac{1}{4}$ sec. cor. of secs. 7 and 12.
Set temp. cor. of secs. 1, 6, 7 and 12.

Note: At noon, I set off 22°26'N. on the decl. arc, at the temp. cor. of secs. 1, 6, 7 and 12, and observe the sun on the meridian; the resulting lat. is 33°01'N.

Thence I run,
North, on a random line, bet. secs. 1 and 6.

40.00
80.00

Set temp. $\frac{1}{4}$ sec. cor. of secs. 1 and 12.
Set temp. cor. of Ts. 4 and 5 S., Rs. 13 and 14 W.

June 4, 1913.

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2 West bdy. of Township 5 South, Range 13 West.

Chains.

- August 26, 1913.
At the old standard cor. of Ts. 5 S., Rs. 13 and 14 W., on 1st Standard Parallel South, a wood post marked and witnessed as described by the Surveyor General. This cor. I later reestablished with an iron post, as described in Book "D," page 12.
Thence I run,
North, on a true line, bet. secs. 31 and 36.
Over level land.
- 41.50 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 36 on W.,
S 31 on E., and
1913 on S. half;
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. No bearing trees within limits.
- 81.50 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, with brass cap, marked,
T 5 S in N half;
R 14 W S 25 on NW.,
R 13 W S 30 on NE.,
S 31 on SE., and
S 36 on SW. quadrants, and
1913 on S. half;
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, west of cor.; from which,
A palo verde, 8 ins. in diam., brs. S. 15° E., 134 lks. dist., marked T 5 S R 13 W S 31 B T.
No other bearing trees within limits.
Land, level.
Soil, sandy with gravel, 3rd rate.
Timber, scattering palo verde and ironwood.
Undergrowth, greasewood.
-
- North, on a true line, bet. secs. 25 and 30.
Over nearly level land.
- 13.20 Yuma-Phoenix road, brs. NW. and SE.
- 23.50 Dry wash, 50 lks. wide, course 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. of secs. 25 and 30, with brass cap, marked,
 $\frac{1}{4}$ S 25 on W.,
S 30 on E., and
1913 on S. half;
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, west of cor.
No bearing trees within limits.
- 45.00 Begin steep ascent of south slope of rocky hill.
- 53.15 Top of ridge, brs. E. and W.
- 64.13 Descend steep rocky slope.
Bottom of descent, brs. E. and W.
- 69.13 Dry wash, 25 lks. wide, course SE.
- 73.43 Ascend steep south slope of mountain.
Top of ridge, brs. E. and W.
- 78.39 Descend north slope of mountain.
Dry wash, 20 lks. wide, course west.
- 80.00 Ascend gradual south slope to
Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 19, 24, 25 and 30, with brass cap, marked,
T 5 S on N.,
R 14 W S 24 in NW.,
R 13 W S 19 in NE.,
S 30 in SE.,
S 25 in SW. quadrants;
1913 in S. half;

West boundary of Township 5 South, Range 13 West.

3.

Chains.

build a mound of stone 4 ft. base, 3 ft. high, W. of cor.
 Pits impracticable. No bearing trees within limits.
 Land, 1st $\frac{1}{2}$ mile sandy with gravel, 3rd rate; last half
 mile, barren, rocky, rough and mountainous, 4th rate,
 Timber, scattering palo verde and ironwood in south half
 mile.
 Undergrowth, greasewood in south half mile.

North, on a true line, bet. secs. 19 and 24.
 Land, rough and broken.
 Ascend small steep rocky hill.
 3.50 Top of hill, brs. E and W.
 Thence along on top for 2 chs.
 Ascend spur ridge.
 11.20 Top of spur ridge, brs. NW. and SE.
 Descend north slope on spur.
 20.00 Bottom of descent.
 Small dry wash, course west.
 30.00 Ascend steep south slope.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 a mound of stone, 3 ft. base, 2 $\frac{1}{2}$ ft. high for $\frac{1}{4}$ sec.
 cor. of secs. 19 and 24, with a brass cap, marked,
 $\frac{1}{4}$ S 24 on W.,
 S 19 in E. half; and
 1913 on S. half;
 build a mound of stone 3 ft. base, 3 ft. high, W. of cor.
 Pits impracticable. No bearing trees within limits.
 47.50 Top of spur ridge, brs. SE. and NW.
 Descend N. slope to
 52.00 Bottom of ravine, 180 ft. deep, 3 chains wide, course NW.
 Ascend steep south slope of mountain.
 70.00 Top of ridge, brs. SE. and NW.
 Ridge, ends about 10.00 chs. west of line.
 Descend 252 ft. to
 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in
 a mound of stone, 3 ft. base, 2 $\frac{1}{2}$ ft. high, for cor. of
 secs. 13, 18, 19 and 24, with brass cap, marked,
 T 5 S in N.,
 R 14 W S 13 in NW.,
 R 13 W S 18 in NE.,
 S 19 in SE., and
 S 24 in SW. quadrants;
 1913 in S. half;
 build a mound of stone 3 ft. base, 3 ft. high, W. of cor.
 Pits impracticable. No bearing trees within limits.
 Land, mountainous and rough.
 Soil, disintegrated granite, rock and boulders.
 No soil.

August 26, 1913.

August 27, 1913:
 North, on a true line, bet. secs. 13 and 18.
 Over mountainous land.
 Descend north slope.
 5.00 Bottom of hill.
 Small valley, brs. NW. and SE.
 Thence over level land.
 28.00 Dry wash, 100 lks. wide, 5 ft. deep, course SW.
 35.00 Ascend steep rocky south slope of mountain.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in a
 mound of stone, 4 ft. base, 2 $\frac{1}{2}$ ft. high, for $\frac{1}{4}$ sec. cor.
 secs. 13 and 18, with brass cap, marked,
 $\frac{1}{4}$ S 13 in W.,
 S 18 in E. half; and
 1913 in S. half;
 build a mound of stone, 4 ft. base, 3 ft. high, W. of cor.

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4. West boundary of Township 5 South, Range 13 West.

Chains.

70.00 Pits impracticable. No bearing trees within limits.
Top of ascent, 700 ft. above the surrounding valley.
Ridge, brs. W. and SE.
Descend steep precipitous descent, over disintegrating granite boulders.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in a mound of stone, 4 ft. base, 2 $\frac{1}{2}$ ft. high, for cor. of secs. 7, 12, 13 and 18, marked on brass cap,
T 5 S in N. half;
R 14 W S 12 in NW.,
R 13 W S 7 in NE.,
S 18 in SE., and
S 13 in SW. quadrant; and
1913 in S. half;
build a mound of stone, 3 ft. base, 3 ft. high, W. of cor.
Pits impracticable. No bearings available.
Land, 23 chs. level; remainder of mile mountainous and rocky.
Soil, 4th rate.

18.00 North, on a true line, bet. secs. 7 and 12.
Descend steep rocky slope.

24.70 Foot of steep descent; enter broken land.
Dry wash, course NW.
Over broken land, covered with granite boulders.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in a mound of stone, 3 ft. base, 2 $\frac{1}{2}$ ft. high for $\frac{1}{4}$ sec. cor. secs. 7 and 12, with brass cap, marked,
 $\frac{1}{4}$ S 12 in W., and
S 7 in E. half;
1913 in S. half;
build a mound of stone 4 ft. base, 3 ft. high, west of cor.

45.00 Pits impracticable. No bearing trees within limits.
Dry wash, 50 lks. wide, course NW.

50.50 Ascend south slope.

66.00 Top of ridge, brs. E. and W. Descend.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in a mound of stone, 3 ft. base, 2 $\frac{1}{2}$ ft. high for cor. of secs. 1, 6, 7 and 12, with brass cap, marked,
T 5 S in N. half;
R 14 W S 1 in NW.,
R 13 W S 6 in NE.,
S 7 in SE., and
S 12 in SW. quadrant,
1913 in S. half;
build a mound of stone 4 ft. base, 3 ft. high, W. of cor. Pits impracticable.
No bearing trees within limits.
Land, mountainous.
Soil, none.

1.00 North, on a true line, bet. secs. 1 and 6.
Dry wash, 50 lks. wide, course NE.

10.10 Dry wash, 50 lks. wide, course NE.

13.50 Ascend steep rocky hill.

18.00 Top of hill, brs. NE. and SW.
Descend gradual N. slope, over broken land to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in a mound of stone, 3 ft. base, 2 $\frac{1}{2}$ ft. high, for $\frac{1}{4}$ sec. cor. secs. 1 and 6, with brass cap, marked,
 $\frac{1}{4}$ S 1 in W.,
S 6 in E. half;
1913 in S. half;
build a mound of stone, 4 ft. base, 3 ft. high, W. of cor.
Pits impracticable. No bearing trees within limits.
Ascend steep SE. slope.

West boundary of Township 5 South, Range 13 West.

Chains.

53.50 Top of ridge, brs. NE. and SW;
 Thence along west slope of ridge to
 72.00 Descend north slope of mountain to
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
 a mound of stone, 4 ft. base, 2 $\frac{1}{2}$ ft. high, for cor. of
 Ts. 4 and 5 S., Rs. 13 and 14 W., with a brass cap, mark-
 ed,

T 4 N in N. half;
 R 14 W S 36 in NW.,
 R 13 W S 31 in NE.,
 S 6 in SE.,
 S 1 in SW. quadrant;
 T 5 S 1913 in S. half;

build a mound of stone 4 ft. base, 3 ft. high, south of
 cor.

Pits impracticable. No bearing trees within limits.
 Land, mountainous.
 Soil, none.
 Timber, none.
 Undergrowth, none.

August 27, 1913.

BOOK 2694

6. Random North boundary of Township 5 South Range 13 West.

Chains

	<p>June 23, 1913: At the cor. of Ts. 4 and 5 S., Rs. 12 and 13 W., reestablished by me, June 5, 1913, as described in Book "D," page 3 At 10h. 0m. a.m., l.m.t., I set off $33^{\circ} 01\frac{1}{2}'$ N. on the lat. arc; $23^{\circ} 27'$ N. on the decl. arc, and determine a meridian with the solar. Thence I run, West, on a random line, along the north bdy. of sec. 1, T. 5 S., R. 13 W. 40.00 Set temp. $\frac{1}{4}$ sec. cor. of secs. 1 and 36. 80.00 Set temp. cor. of secs. 1, 2, 35 and 36. Note: At this point, I set off $23^{\circ} 27'$ N. on the decl. arc; and at noon, I observe the sun on the meridian; the resulting lat. is $33^{\circ} 01\frac{1}{2}'$ N.</p>
40.00 80.00	<p>West, on a random line, bet. secs. 2 and 35. Set temp. $\frac{1}{4}$ sec. cor. of secs. 2 and 35. Set temp. cor. of secs. 2, 3, 34 and 35. June 23, 1913.</p>
40.00 80.00	<p>June 24, 1913. At 9h. 0m. a.m., l.m.t., I set off $33^{\circ} 01\frac{1}{2}'$ N. on the lat. arc; $23^{\circ} 26'$ N. on the decl. arc, and determine a meridian with the solar, at the temp. cor. of secs. 2, 3, 34 and 35. Thence I run, West, on a random line, bet. secs. 3 and 34. Set temp. $\frac{1}{4}$ sec. cor. of secs. 3 and 34. Set temp. cor. of secs. 3, 4, 33 and 34.</p>
40.00 80.00	<p>West, on a random line, bet. secs. 4 and 33. Set temp. $\frac{1}{4}$ sec. cor. of secs. 4 and 33. Note: At this point, I set off $23^{\circ} 25'$ N. on the decl. arc; and at noon, I observe the sun on the meridian; the resulting lat. is $33^{\circ} 01\frac{1}{2}'$ N. Set temp. cor. of secs. 4, 5, 32 and 33.</p>
40.00 80.00	<p>West, on a random line, bet. secs. 5 and 32. Set temp. $\frac{1}{4}$ sec. cor. Set temp. cor. of secs. 5, 6, 31 and 32. June 24, 1913.</p>
40.00 80.00	<p>June 25, 1913: At 9h. 0m. a.m., l.m.t., I set off $23^{\circ} 25'$ N. on the decl. arc; $33^{\circ} 01\frac{1}{2}'$ N. on the lat. arc, and determine a meridian with the solar, at the temp. cor. of secs. 5, 6, 31 and 32. Thence I run, West, on a random line, bet. secs. 6 and 31. Set temp. $\frac{1}{4}$ sec. cor. of secs. 6 and 31. Intersect N. and S. line, 150 lks. north of the temp. Tp. cor. set by me June 4, 1913. Note: At this point I set off $23^{\circ} 25'$ N. on the decl. arc; and at noon, I observe the sun on the meridian; the resulting lat. is $33^{\circ} 01\frac{1}{2}'$ N. June 25, 1913.</p>

North boundary of Township 5 South, Range 13 West, 7.

Chains.

Sept. 23, 1913.

From the cor. of T⁴ S⁴ and 5 S., R^s. 12 and 13 W., reestablished by me June 5, 1913, as described in Book "D," page 3 I run,

West, on a true line, bet. secs. 1 and 36.

Over rough and broken land.

15.00 Descend rocky west slope.

35.00 Foot of descent.

Dry wash, 75 lks. wide, course north.

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 36 in N., and

S 1, 1913 on S. half;

and build a mound of stone 3 ft. base, 3 ft. high, N. of cor. Pits impracticable.

No bearing trees within limits.

Over rough stony land.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in a mound of stone 3 ft. base, 2 $\frac{1}{2}$ ft. high, for cor. of secs. 1, 2, 35 and 36, with brass cap, marked,

T 4 S S 35 in NW.,

R 13 W S 36 in NE.,

S 1 in SE., and

S 2 in SW. quadrants;

T 5 S, 1913 in S. half;

build a mound of stone 3 ft. base, 3 ft. high, west of cor.

Pits impracticable. No bearing trees within limits.

Land, mountainous.

Soil, none. Timber none.

West, on a true line, bet. secs. 2 and 35.

Over mountainous land.

5.00 Ascend steep rocky NE. slope.

12.00 Top of small rocky spur ridge, brs. NW. and SE.

12.50 Descend west slope.

17.00 Bottom of draw.

Dry wash, course north,

Ascend.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in a mound of stone 3 ft. base, 2 $\frac{1}{2}$ ft. high, for $\frac{1}{4}$ sec. cor., with brass cap, marked, $\frac{1}{4}$ S 35 in N., and

S 2, 1913 in S. half;

build a mound of stone 3 ft. base, 3 ft. high, north of cor.

Pits impracticable. No bearing trees within limits.

58.50 Top of spur ridge, brs. N. and S.

Descend 300 ft. of steep rocky west slope.

64.00 Bottom of descent.

Dry wash, course north.

Ascend steep rocky east slope.

78.00 Top of spur ridge, brs. N. and S.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in a mound of stone 3 ft. base, 2 $\frac{1}{2}$ ft. high, for cor. of secs. 2, 3, 34 and 35, with brass cap, marked,

T 4 S S 34 in NW.,

R 13 W S 35 in NE.,

S 2 in SE., and

S 3 in SW. quadrants;

T 5 S, 1913 in S. half;

raise a mound of stone 4 ft. base, 2 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. No bearing trees within limits.

Land, mountainous.

Soil, none.

Timber, none.

Sept. 23, 1913.

8. North bdy. of Township 5 South, Range 13 West.

Chains.

Sept. 24, 1913:
 West, on a true line, bet. secs. 3 and 34.
 Over mountainous land.
 Descend rocky SW. slope.
 22.00 Foot of descent.
 Thence over rough rocky land to
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 mound of stone 3 ft. base, 2½ ft. high, for ¼ sec. cor.,
 with brass cap, marked,
 ¼ S 34 in N., and
 S 3, 1913 in S. half;
 build a mound of stone, 3 ft. base, 3 ft. high. N. of cor.
 Pits impracticable. No bearing trees within limits.
 Thence over rolling land, covered with malpais boulders.
 64.00 Dry wash, 25 lks. wide, course NE.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
 a mound of stone 3 ft. base, 2½ ft. high, for cor. of
 secs. 3, 4, 33 and 34, with brass cap, marked,
 T 4 S S 33 in NW.,
 R 13 W S 34 in NE.,
 S 3 in SE., and
 S 4 in SW. quadrants;
 T 5 S, 1913 in S. half;
 build a mound of stone, 4 ft. base, 3 ft. high, west of
 cor.
 Pits impracticable. No bearing trees within limits.
 Land, 40.00 chs. mountainous, remainder rolling, covered
 with malpais boulders.
 Soil, volcanic ash, clay and rock under a surface of
 malpais boulders.
 Timber, none.

West, on a true line, bet. secs. 4 and 33.
 Over rolling land, covered with malpais rock.
 27.00 Dry wash, 100 lks. wide, course north.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in a
 mound of stone 3 ft. base, 2½ ft. high, for ¼ sec. cor.,
 with brass cap, marked,
 ¼ S 33 in N., and
 S 4, 1913 in S. half;
 build a mound of stone 4 ft. base, 3 ft. high, north of
 cor. Pits impracticable.
 A palo verde, 12 ins. in diam., brs. S. 59½° W., 70
 lks. dist., marked ¼ S 4 B T.
 No other bearing trees within limits.
 68.00 Wash, 75 lks. wide, course NE.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
 a mound of stone 3 ft. base, 2½ ft. high, for cor. of
 secs. 4, 5, 32 and 33, with brass cap, marked,
 T 4 S S 32 in NW.,
 R 13 W S 33 in NE.,
 S 4 in SE., and
 S 5 in SW. quadrant;
 T 5 S 1913 in S. half;
 build a mound of stone 4 ft. base, 3 ft. high, west of
 cor.
 Pits not practicable. No bearing trees within limits.
 Land, rolling and rough, covered with malpais boulders.
 Soil, volcanic ash and clay under malpais covering, 4th
 rate.
 Timber, scattering palo verde along washes.

West, on a true line, bet. secs. 5 and 32.
 Over rolling, rocky land.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 a mound of stone 3 ft. base, 2½ ft. high, for ¼ sec. cor.,

North boundary of Township 5 South, Range 13 West. 9.

Chains.

- with brass cap, marked,
 $\frac{1}{4}$ S 32 in N., and
 S 5, 1913 in S. half; from which,
 A palo verde, 10 ins. in diam., brs. N $18\frac{1}{2}^{\circ}$ W.,
 223 lks. dist., marked $\frac{1}{4}$ S 32 B T.
 No other bearing trees within limits.
 Build a mound of stone 3 ft. base, 3 ft. high, N. of cor. Pits
 impracticable.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in a md.
 of stone 3 ft. base, $2\frac{1}{2}$ ft. high, for cor. of secs. 5, 6,
 31 and 32, with brass cap, marked,
 T 4 S S 31 in NW.,
 R 13 W S 32 in NE.,
 S 5 in SE., and
 S 6 in SW. quadrants,
 T 5 S, 1913 in S. half;
 build a mound of stone 4 ft. base, 3 ft. high, west of
 cor.
 Pits not practicable. No bearing trees within limits.
 Land, rolling and rocky.
 Soil, volcanic ash, with rock, under a covering of mal-
 pais boulders, 4 th. rate.
 Timber, a few scattering palo verde along the washes.
-
- West, on a true line, bet. secs. 6 and 31.
- 10.50 Dry wash, 50 lks. wide, course NE.
 25.00 Ascend steep rocky SE. slope.
 38.50 Top of rocky spur ridge, brs. NE. and SW.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in a
 mound of stone 4 ft. base, $2\frac{1}{2}$ ft. high, for $\frac{1}{4}$ sec. cor.,
 with brass cap, marked,
 $\frac{1}{4}$ S 31 in N., and
 S 6, 1913 in S. half;
 build a mound of stone, 3 ft. base, 3 ft. high, west
 of cor. Pits impracticable. No bearing trees
 within limits.
- 50.00 Ravine, 5 chs. wide, 100 ft. deep, course NE.
 Ascend east slope.
 65.00 Top of spur ridge, brs. N. and S.
 Descend west slope.
 70.00 Ravine, 7 chs. wide, 270 ft. deep.
 Ascend rocky precipitous slope of mountain.
 80.00 Intersect cor. of Ts. 4 and 5 S., Rs. 13 and 14 W., estab-
 lished by me August 27, 1913, as hereinbefore de-
 scribed.
 Land, mountainous and rough.
 Soil, none.
 Timber, none.

Sept. 24, 1913.

BOOK 2694

10. Random West bdy. of Township 5 South, Range 14 West.

Chains.

June 9, 1913:

At 8h.0m.a.m., l.m.t., at the standard cor. of Ts. 5 S., Rs. 14 and 15 W. reestablished by W.H. Thorn, as described in Book "C," I set off $32^{\circ}56\frac{1}{2}'$ N. on lat. arc; $22^{\circ}56'$ N. on decl. arc, and determine a meridian with the solar.

Thence I run,

North, on a random line, bet. secs. 31 and 36, west bdy. of Tp.

40.00 Set temp. $\frac{1}{4}$ sec. cor. of secs. 31 and 36.

80.00 Set a temp. cor. of secs. 25, 30, 31 and 36.

North, on a random line, bet. secs. 25 and 30.

40.00 Set temp. $\frac{1}{4}$ sec. cor. of secs. 25 and 30.

80.00 Set temp. cor. of secs. 19, 24, 25 and 30.

North, on a random line, bet. secs. 19 and 24.

40.00 Set temp. $\frac{1}{4}$ sec. cor. of secs. 19 and 24.

80.00 Set temp. cor. of secs. 13, 18, 19 and 24.

Note: At the temp. cor. of secs. 13, 18, 19 and 24, I set off $22^{\circ}57'$ N. on the decl. arc, and at noon, I observe the sun on the meridian; the resulting lat. is $32^{\circ}59'$ N.

Thence I run,

North, on a random line, bet. secs. 13 and 18.

40.00 Set temp. $\frac{1}{4}$ sec. cor. of secs. 13 and 18.

80.00 Set temp. cor. of secs. 7, 12, 13 and 18.

North, on a random line, bet. secs. 7 and 12.

40.00 Set temp. $\frac{1}{4}$ sec. cor. of secs. 7 and 12.

80.00 Set temp. cor. of secs. 1, 6, 7 and 12.

North, on a random line, bet. secs. 1 and 6.

40.00 Set temp. $\frac{1}{4}$ sec. cor. of secs. 1 and 6.

80.00 Set temp. cor. of Ts. 4 and 5 S., Rs. 14 and 15 W.

June 9, 1913.

July 31, 1913.

From the standard cor. of Ts. 5 S., Rs. 14 and 15 W., reestablished by W.H. Thorn, as described in Book "C," I run, North, on a true line, bet. secs. 31 and 36.

Over level land.

42.47 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 36 in W.,

S 31 in E, and

1913 in S-half; from which,

An ironwood, 12 ins. in diam., brs. N. $37\frac{1}{2}^{\circ}$ W., 118 lks. dist., marked $\frac{1}{4}$ S 36 B T.

No other tree within limit. 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.

82.47 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, with brass cap, marked,

West boundary of Township 5 South, Range 14 West. 11.

Chains.

T 5 S in N. half;
 R 15 W S 25 in NW,
 R 14 W S 30 in NE,
 S 31 in SE., and
 S 36 in SW. quadrants;
 1913 in S. half;

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, west of
 cor.

Land, level.

Soil, volcanic ash and clay, covered with small gravel,
 3rd rate.

Timber, scattering palo verde and ironwood.

Undergrowth, greasewood.

North, on a true line, bet. secs. 25 and 30.

Over level land.

14.50

Old road brs. NW. and SE.

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 25 in W.,
 S 30 in E., and
 1913 in S. half;

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,
 west of corner.

80.00

Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
 the ground for cor. of secs. 19, 24, 25 and 30, with
 brass cap, marked,

T 5 S in N. half;
 R 15 W S 24 in NW,
 R 14 W S 19 in NE,
 S 30 in SE., and
 S 25 in SW. quadrants;
 1913 in S. half; from which,

A palo verde, 15 ins. indiam., brs. S. $89^{\circ}59'E$,
 12 lks. dist., marked T 5 S R 14 W S 30 B T.

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, west of
 cor. No other trees within limits.

Land, level.

Soil, sandy, with volcanic ash and gravel, 3rd rate.

Timber, scattering pale verde and ironwood.

Undergrowth, greasewood.

North, on a true line, bet. secs. 19 and 24.

Over level land.

1.50

Dry wash, 50 lks. wide, course 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. of secs. 19 and 24, with
 brass cap, marked,

$\frac{1}{4}$ S 24 in W.,
 S 19 in E., and
 1913 in S. half;

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, 3 ins. in diam., 24 ins. in
 the ground for cor. of secs. 13, 18, 19 and 24, with brass
 cap, marked,

T 5 S in N. half;
 R 15 W S 13 in NW.,
 R 14 W S 18 in NE.,
 S 19 in SE., and

12. West bdy. of Township 5 South, Range 14 West.

Chains.

S 24 in SW. quadrants;
1913 in S. half;
dig pits 18x18x12 ins., in each sec. 5½ ft. dist.,
and raise a mound of earth, 4 ft. base, 2 ft. high, west
of cor.

Land, level.

Soil, volcanic ash, with clay and gravel, 3rd rate.

Timber, scattering palo verde and ironwood along the
washes.

Undergrowth, greasewood.

North, on a true line, bet. secs. 13 and 18.

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, marked,
¼ S 13 in W.,
S 18 in E., and
1913 in S. half;

dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist.,
and raise a mound of earth 3½ ft. base, 1½ ft. high,
west of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
the ground, for cor. of secs. 7, 12, 13 and 18, with brass
cap, marked,

T 5 S in N. half;
R 15 W S 12 in NW.,
R 14 W S 7 in NE.,
S 18 in SE., and
S 13 in SW. quadrant;
1913 in S. half;

dig pits 18x18x12 ins. in each sec. 5½ ft. dist., and raise
a mound of earth 4 ft. base, 2 ft. high, west of cor.

Land, level.

Soil, volcanic ash, with gravel and clay, 3rd rate.

Timber, scattering palo verde along the washes.

Undergrowth, greasewood.

North, on a true line, bet. secs. 7 and 12.

Over level land.

37.50 Dry wash, 100 lks. wide, course S. 10° W.

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, marked,
¼ S 12 in W.,
S 7 in E., and

1913 in S. half; from which,
A palo verde, 12 ins. in diam., brs. S. 16½° W.,
180 lks. dist., marked ¼ S 12 B T.

A palo verde, 12 ins. in diam., brs. N. 65° E.,
206 lks. dist., marked ¼ S 7 B T.

55.00 Same dry wash, course S. 5° E.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in
the ground for cor. of secs. 1, 6, 7 and 12, with brass
cap, marked,

T 5 S in N. half;
R 15 W S 12 in NW.,
R 14 W S 6 in NE.,
S 7 in SE., and
S 12 in SW. quadrant;
1913 in S. half;

dig pits 18x18x12 ins., in each sec. 5½ ft. dist., and
raise a mound of earth 4 ft. base, 2 ft. high, west of
corner.

Land, level.

Soil, sandy with volcanic ash and gravel; 3rd rate.

Timber, scattering palo verde and ironwood along the

West boundary of Township 5 South, Range 14 West, 13.

Chains.

washes.
Undergrowth, greasewood.

North, on a true line, bet. secs. 1 and 6.
Over level land.

12.50 Yuma-Phoenix road brs. NW. and SE.
15.00 Enter wash, 50 lks.wide, course SW.
39.00 Leave wash, 50 lks.wide, course from NE.
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 1 in W., S 6 in E., and 1913 in S.half; from which,
A palo verde, 8 ins. in diam., brs.N.38°W., 79 lks.dist., marked $\frac{1}{4}$ S 1 B T.
An ironwood, 8 ins. in diam., brs.S.22° E°,130 lks.dist., marked $\frac{1}{4}$ S 6 B T.

80.00 Intersect second temp.Tp. cor. set by me June 28, 1913, in survey of north bdy. of T.5 S., R.14 W. Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for cor.of Ts.4.and 5 S., Rs.14 and 15 W., with brass cap, marked,
T 4 S in N.half;
R 15 W S 36 in NW.,
R 14 W S 31 in NE.,
S 6 in SE., and
S 1 in SW. quadrants;
T 5 S, 1913 in S.half; from which,
An ironwood, 5 ins. in diam., brs.N.84 $\frac{1}{2}$ °E., 360 lks.dist., marked T 4 S R 14 W S 31 B T.
An ironwood, 8 ins. in diam., brs.S.54 $\frac{1}{2}$ °E.,534 lks.dist., marked T 5 S R 14 W S 6 B T.
A palo verde, 6 ins. in diam., brs.S.35°W., 337 lks.dist., marked T 5 S R 15 W S 1 B T.
A palo verde, 8 ins. in diam., brs.N.20°W.,135 lks.dist., marked T 4 S R 15 W S 36 B T.

Land,level.
Soil, sandy with volcanic ash and gravel, 3rd rate.
Timber, scattering palo verde and ironwood.
Undergrowth, greasewood.

July 31, 1913.

BOOK 2694

14. North boundary of Township 5 South, Range 14 West.

Chains.

Survey commenced June 25, 1913:

At the corner of Ts.4 and 5 S., Rs.13 and 14 W., hereinbefore described.

Note: For solar and noon observations for latitude on this line see notes for random line bet. secs.6 and 31, north bdy. of Tp.5 S., R.13 W., on page 6 of this Book.Note: On account of the irregularity of the 1st. Standard Parallel South, for both alinement and dist., I run this line west on a true line, throwing the excess or shortage on the west bdy. of the Tp.

Thence I run,

West, on a true line, bet. secs.1 and 36, N.bdy. of Tp.5 S., R.14 W.

Over rough, mountainous land, difficult to survey.

1.00 Top of rocky ridge, 500 ft. above surrounding plain, brs. N. and S.

Descend steep rocky west slope of ridge.

12.50 Dry wash, course N. Bottom of descent.

Ascend steep rocky east slope of mountain.

28.00 Top of rocky spur, covered with large malpais boulders, brs. N. and S., 350 ft. above the wash. Desc. steep, rocky slope

39.80 Dry wash, 20 lks. wide, course north.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in a mound of stone 3 ft. base, 2½ ft. high for ¼ sec. cor., with brass cap, marked, (to

¼ S 36 in N., and

S 1, 1913 in S. half;

raise a mound of stone 3 ft. base, 3 ft. high, north of cor. Pits not practicable.

Ascend NW. slope of mountain.

45.00 Change to north slope.

50.00 Dry wash, 50 lks. wide, course NE.; thence over mountainous land.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in a mound of stone 5 ft. base, 2½ ft. high, for cor. of secs. 1, 2, 35 and 36, with brass cap, marked,

T 4 S S 35 in NW.,

R 14 W S 36 in NE.,

S 1 in SE., and

S 2 in SW. quadrants,

T 5 S, 1913 in S. half;

build a mound of stone 4 ft. base, 3 ft. high, west of cor. Pits impracticable.

Land, mountainous and rough, covered with malpais boulders.

Soil, none.

Timber, none.

June 25, 1913.

June 27, 1913:

At 8h. Om. a.m., 1.m.t., I set off 33° 01½' N. on the lat. arc; 23° 22' N. on decl. arc, and determine a meridian with the solar, at the cor. of secs. 1, 2, 35 and 36, N. bdy. T. 5 S., R. 14 W., above described.

Thence I run,

West, on a true line, bet. secs. 2 and 35, over mountainous land.

13.50 Dry wash, 50 lks. wide, course NE.

Ascend NE. slope.

33.50 Top of rocky ridge, brs. N. and S.

Descend NW. slope.

39.00 Bottom of descent.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in a mound of stone 3 ft. base, 2½ ft. high, for ¼ sec. cor., with brass cap, marked,

¼ S 35 in N., and

S 2, 1913 in S. half;

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

North boundary of Township 5 South, Range 14 West, 15.

Chains.

- Pits not practicable.
 41.00 Ravine, 25 lks.wide, 10 ft. deep, course NE.
 Ascend east slope.
 60.00 Top of ridge, brs.NE and SW.
 Descend west slope of mountain.
 70.00 Change to NW. slope.
 75.00 Bottom of descent.
 Ascend steep east slope.
 80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in
 a mound of stone, 4 ft.base, 2½ ft. high, for cor.of
 secs.2,3,34 and 35, with brass cap, marked,
 T 4 S S 34 in NW,
 R 14 W S 35 in NE,
 S 2 in SE., and
 S 3 in SW. quadrant,
 T 5 S, 1913 in S.half;
 build a mound of stone 5 ft.base, 3½ ft. high, west of
 cor. Pits impracticable.
 Land, mountainous, covered with malpais boulders.
 Soil, none.
 Timber, none.
 Note: At this corner, I set off 23°21'N. on the decl.
 arc; and at noon, I observe the sun on the meridian;
 the resulting latitude is 33° 01½' N.

- West, on a true line, bet. secs.3 and 34.
 Land, mountainous and rough, difficult to survey.
 Ascend steep rocky east slope.
 3.50 Top of ridge, brs.N.and S.
 Descend steep E. slope.
 16.00 Foot of descent.
 Dry wash, 10 lks.wide, course north.
 Ascend steep east slope.
 31.00 Top of ridge brs.N.and S.
 Descend steep west slope.
 40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
 a mound of stone 3 ft.base, 2½ ft. high for ¼ sec.cor.,
 with brass cap, marked,
 ¼ S 34 in N., and
 S 3, 1913 in S.half;
 raise a mound of stone 4 ft.base, 2 ft.high, N.of cor.
 Pits impracticable.
 Ascend steep east slope of mountain.
 43.00 Top of small spur ridge, brs. N.and S.
 Descend to
 48.50 Bottom of descent, drains course N.
 Ascend steep east slope of mountain.
 68.00 Top of mountain brs. N.and S.
 Descend steep west slope of mountain, covered with large
 boulders.
 80.00 Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins.
 in a mound of stone 4 ft.base, 2½ ft. high, for cor.
 of secs. 3,4,33 and 34, with brass cap, marked,
 T 4 S S 33 in NW,
 R 14 W S 34 in NE,
 S 3 in SE., and
 S 4 in SW. quadrants;
 T 5 S, 1913 in S.half;
 build a mound of stone, 5 ft,base, 3 ft.high, west of
 cor. Pits not practicable.
 Land, mountainous and rough, covered with malpais.
 Soil, none. Timber, none.

June 27, 1913.

BOOK 2694

16. North boundary of Township 5 South, Range 14 West.

Chains.

- June 28, 1913:
 At 9h.0m.a.m., l.m.t., at the cor. of secs. 3, 4, 33 and 34,
 above described, I set off $33^{\circ} 01\frac{1}{2}'$ N. on the lat. arc;
 $23^{\circ} 19'$ N. on the decl. arc, and determine a meridian with
 the solar.
 Thence I run,
 West, on a true line, bet. secs. 4 and 33.
 Over mountainous land.
 Descend steep west slope of mountain.
- 26.00 Bottom of steep descent, 618 ft. below top of mountain.
 Thence gradual slope to the W., over malpais boulders.
- 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 33 in N., and
 $\frac{1}{4}$ S 4, 1913 in S. half; pits impracticable.
 Build a mound of stone 3 ft. base, $2\frac{1}{2}$ ft. high, N. of cor.
 64.00 Dry wash 50 lks. wide, course SW.
 78.00 Dry wash, 100 lks. wide, course SW.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
 the ground, for cor. of secs. 4, 5, 32 and 33, with brass
 cap, marked,
 T 4 S S 32 in NW.,
 R 14 W S 33 in NE.,
 S 4 in SE., and
 S 5 in SW. quadrants,
 T 5 S, 1913 in S. half; from which,
 A palo verde, 6 ins. in diam., brs. N. $63\frac{1}{2}^{\circ}$ E.,
 222 lks. dist., marked T 4 S R 14 W S 33 B T.
 A palo verde, 15 ins. in diam., brs. S. $1\frac{1}{2}^{\circ}$ W.,
 189 lks. dist., marked T 5 S R 14 W S 5 B T.
- No other trees within the prescribed 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, west of cor.
 Land, first 60.00 chs., mountainous; remainder gradual
 west slope, covered with malpais boulders and gravel.
 Soil, last 20.00 chs., sand with malpais gravel and
 volcanic ash, 3rd and 4th rate.
 Timber, scattering palo verde along the washes.
 Note: At this corner, I set off $23^{\circ} 18'$ N. on the decl.
 arc; and at noon, I observe the sun on the meridian;
 the resulting lat. is $33^{\circ} 01\frac{1}{2}'$ N.
-
- West, on a true line, bet. secs. 5 and 32.
 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, marked,
 $\frac{1}{4}$ S 32 in N., and
 S 5, 1913 in S. half; from which,
 A palo verde, 10 ins. in diam., brs. S. 72° W.,
 123 lks. dist., marked $\frac{1}{4}$ S 32 B T.
 A palo verde, 15 ins. in diam., brs. N. $18\frac{1}{2}^{\circ}$ W.,
 349 lks. dist., marked $\frac{1}{4}$ S 32 B T.
- 39.00 Dry wash, 50 lks. wide, course SE.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
 the ground, for cor. of secs. 5, 6, 31 and 32, with
 brass cap, marked,
 T 4 S S 31 in NW.,
 R 14 W S 32 in NE.,
 S 5 in SE., and
 S 6 in SW. quadrants;
 T 5 S, 1913 in S. half; from which,
 An ironwood, 8 ins. in diam., brs. N. 36° E., 60
 lks. dist., marked T 4 S R 14 W S 32 B T.
 A palo verde, 15 ins. in diam., brs. S. 21° E.,
 57 lks. dist., marked T 5 S R 14 W S 5 B T.
 An ironwood 8 ins. in diam., brs. S. 6° W., 101 lks.
 dist., marked T 5 S R 14 W S 6 B T.

North bdy. of Township 5 South, Range 14 West.

17.

Chains.

A palo verde, 8 ins. in diam., brs. N. 69° W., 108 lks. dist., marked T 4 S R 14 W S 31 B T.

Land, almost level.

Soil, sandy, with gravel and volcanic ash, covered with scattering malpais boulders, 3rd rate.

Timber, scattering palo verde and ironwood along the washes.

Undergrowth, greasewood.

West, on a true line, bet. secs. 6 and 31.

Over level land.

3.60

Old road, brs. NW. and SE.

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 in N., and

S 6, 1913 in S. half;

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.

66.00

Dry wash, 100 lks. wide, course south.

81.48

Intersect N. and S. line, 2.47 chs. N. of temp. cor. of Ts. 4 and 5 S., Rs. 14 and 15 W., set by me June 9, when running random west bdy. of T. 5 S., R. 14 W.

Set new temp. cor. of Ts. 4 and 5 S., Rs. 14 and 15 W. at this point.

June 28, 1913.

BOOK 2694

18. Random West bdy. of Township 5 South, Range 15 West.

Chains.

June 13, 1913:

At 8h. 0m. a.m., l.m.t., at the standard cor. of Ts. 5 S., Rs. 15 and 16 W., I set off $32^{\circ} 56\frac{1}{2}'$ N. on the lat. arc; $23^{\circ} 13'$ N. on the decl. arc, and determine a meridian with the solar.

Thence I run,

North, on a random line, bet. secs. 31 and 36.

40.00

Set temp. $\frac{1}{4}$ sec. cor. of secs. 31 and 36.

80.00

Set temp. cor. of secs. 25, 30, 31 and 36.

40.00

North, on a random line, bet. secs. 25 and 30.

80.00

Set temp. $\frac{1}{4}$ sec. cor. of secs. 25 and 30.

Set temp. cor. of secs. 19, 24, 25 and 30.

Note: At this temp. cor., I set off $23^{\circ} 14'$ N. on the decl. arc; and at noon, I observe the sun on the meridian; the resulting lat. is $32^{\circ} 59'$ N.

40.00

North, on a random line, bet. secs. 19 and 24.

80.00

Set temp. $\frac{1}{4}$ sec. cor. of secs. 19 and 24.

Set temp. cor. of secs. 13, 18, 19 and 24.

40.00

North, on a random line, bet. secs. 13 and 18.

80.00

Set temp. $\frac{1}{4}$ sec. cor. of secs. 13 and 18.

Set temp. cor. of secs. 7, 12, 13 and 18.

June 13, 1913.

40.00

June 14, 1913: At 9h. 0m. a.m., l.m.t., I set off $33^{\circ} 0'$ N. on the lat. arc; $23^{\circ} 16'$ N. on the decl. arc, and determine a solar with the meridian at the temp. cor. of secs. 7, 12, 13 and 18.

Thence I run,

North, on a random line, bet. secs. 7 and 12.

80.00

Set temp. $\frac{1}{4}$ sec. cor. of secs. 7 and 12.

Set temp. cor. of secs. 1, 6, 7 and 12.

40.00

Note: At temp. cor. of secs. 1, 6, 7 and 12, I set off $23^{\circ} 17'$ N. on the decl. arc, and at noon, I observe the sun on the meridian; the resulting latitude is $33^{\circ} 01'$ N.

Thence I run,

North, on a random line, bet. secs. 1 and 6.

80.00

Set temp. $\frac{1}{4}$ sec. cor. of secs. 1 and 6.

Set temp. cor. of Ts. 4. and 5 S., Rs. 15 and 16 W.

June 14, 1913.

North bdy. of Township 5 South, Range 15 West. 19.

Chains.

July 29, 1913.
 From second temp. cor. of Ts. 4 and 5 S., Rs. 14 and 15 W.,
 set by me when surveying north bdy. of T. 5 S., R. 14 W.,
 I run,
 West, on a true line, bet. secs. 1 and 36, north bdy. of T.
 5 S., R. 15 W.

6.00 Dry wash, 50 lks. wide, course S. 10° W.
 10.50 Dry wash, 50 lks. wide, course S. 10° E.
 20.00 Dry wash, 75 lks. wide, course S. 5° E.
 30.00 Dry wash, 75 lks. wide, course S. 10° E.
 33.40 Dry wash, 75 lks. wide, course S. 10° E.
 37.60 Dry wash, 100 lks. wide, course S. 10° 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 36 in N., and
 S 1, 1913 in S. half; from which,
 A palo verde, 8 ins. in diam., brs. N. 13 $\frac{1}{2}$ ° E., 52
 lks. dist., marked $\frac{1}{4}$ S 36 B T.
 An ironwood, 12 ins. in diam., brs. S. 32 $\frac{1}{2}$ ° E.,
 158 lks. dist., marked $\frac{1}{4}$ S 1 B T.

55.00 Dry wash, 50 lks. wide, course S.
 60.53 Dim road brs. N. and S.
 64.00 Dry wash, 75 lks. wide, course SW.
 68.00 Dry wash, 25 lks. wide, course S.
 72.00 Ravine, 3 chs. wide, 25 ft. deep, course S.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
 the ground, for cor. of secs. 1, 2, 35 and 36, with
 brass cap, marked,
 T 4 S S 35 in NW.,
 R 15 W S 36 in NE.,
 S 1 in SE., and
 S 2 in SW. quadrants;
 T 5 S, 1913 in S. half; from which,
 A palo verde, 12 ins. in diam., brs. N. 8 $\frac{1}{2}$ ° E.,
 105 lks. dist., marked, T 4 S R 15 W S 36 B T.
 A palo verde, 12 ins. in diam., brs. S. 6° E., 74
 lks. dist., marked T 5 S R 15 W S 1 B T.
 An ironwood, 16 ins. in diam., brs. S. 23° W., 18
 lks. dist., marked T 5 S R 15 W S 2 B T.
 An ironwood, 14 ins. in diam., brs. N. 2 $\frac{1}{2}$ ° W., 83
 lks. dist., marked T 4 S R 15 W S 35 B T.

Land, level.
 Soil, sandy, with volcanic ash, 3rd rate.
 Timber, ironwood and palo verde along washes and scatter-
 ing elsewhere.
 Undergrowth, greasewood.

West, on a true line, bet. secs. 2 and 35.

10.00 Dry wash, 100 lks. wide, banks 10 ft. deep, course SW.
 37.50 Dry wash, 50 lks. wide, course 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, marked,
 $\frac{1}{4}$ S 35 in N., and
 S 2, 1913 in S. half; from which,
 A palo verde, 8 ins. in diam., brs. N. 13° W., 199
 lks. dist., marked $\frac{1}{4}$ S 35 B T.
 An ironwood, 8 ins. in diam., brs. S. 24° E., 198
 lks. dist., marked $\frac{1}{4}$ S 2 B T.

54.80 Dry wash, 25 lks. wide, course SW.
 74.50 Dry wash, 100 lks. wide, course S.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
 the ground, for cor. of secs. 2, 3, 34 and 35, with brass
 cap, marked,
 T 4 S S 34 in NW.,
 R 15 W S 35 in NE.,
 S 2 in SE., and
 S 3 in SW. quadrant;
 T 5 S, 1913 in S. half;

BOOK 2694

20. North bdy. of Township 5 South, Range 15 West.

Chains.

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, west of cor.

Land, level.

Soil, sand, with volcanic ash, covered with gravel, 3rd rate.

Timber, palo verde and ironwood along the washes and scattering elsewhere.

Undergrowth, greasewood.

West, on a true line, bet. secs. 3 and 34.

Over level land.

6.50 Dry wash, 50 lks. wide, course SW.

9.00 Dry wash, 50 lks. wide, course SW.

15.25 Dry wash, 50 lks. wide, course SW.

20.00 Begin ascent of rocky east slope of mountain point.

31.00 Top of ridge, brs. N. and S., and point extends south, into sec. 3, about 10 chs.

Thence across small draw, opening to the SW. to

36.00 Top of small spur ridge, brs. SW. and NE.

Descend west slope.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in a mound of stone 3 ft. base, 2 $\frac{1}{2}$ ft. high, for $\frac{1}{4}$ sec. cor. of secs. 3 and 34, with brass cap, marked,

$\frac{1}{4}$ S 34 in N., and

S 3, 1913 in S. half; pits impracticable.

Build mound of stone 3 ft. base, 2 $\frac{1}{2}$ ft. high, north of cor.

45.00 Foot of slope, brs. N. and S.

75.00 Dry wash, 20 lks. wide, course SW.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 3, 4, 33 and 34, with brass cap, marked,

T 4 S S 33 in NW.,

R 15 W S 34 in NE., S 3 in SE., S 4 in SW.

quad., T 5 S, 1913 in S. half; from which,

An ironwood, 8 ins. in diam., brs. S. 57° 50' W., 181 lks. dist., marked T 5 S R 15 W S 4 B T.

An ironwood, 12 ins. in diam., brs. N. 81° 55' E., 447 lks. dist., marked T 4 S R 15 W S 34 B T.

An ironwood, 12 ins. in diam., brs. S. 80° E., 505 lks. dist., marked T 5 S R 15 W S 3 B T.

A palo verde, 8 ins. in diam., brs. N. 30° 45' W., 254 lks. dist., marked T 5 S R 15 W S 33 B T.

Land, level, except 20.00 chs., over rocky ridge.

Soil, volcanic ash and sand with gravel, 3rd rate, except ridge, which is 4th rate.

Timber palo verde and ironwood along washes and scattering elsewhere.

Undergrowth, greasewood.

West, on a true line, bet. secs. 4 and 33.

Over level land.

13.30 Yuma-Phoenix road, brs. N. 75° W. and S. 75° E.

24.20 Dry wash, 75 lks. wide, course S.

32.20 Dry wash, 50 lks. wide, course south.

36.00 Dry wash, 25 lks. wide, course SE.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 4 and 33, with brass cap, marked,

$\frac{1}{4}$ S 33 in N., and

S 4, 1913 in S. half; from which,

A palo verde, 7 ins. in diam., brs. S. 49 $\frac{1}{2}$ ° W., 266 lks. dist., marked $\frac{1}{4}$ S 4 B T.

No other trees near.

Dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist., and

Chains.

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

60.00 Dry wash, 50 lks. wide, course south.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 4, 5, 32 and 33, with brass cap, marked,
 T 4 S S 32 in NW.,
 R 15 W S 33 in NE.,
 S 4 in SE., and
 S 5 in SW. quadrant;
 T 5 S. 1913 in S. half; from which,
 An ironwood, 8 ins. in diam., brs. N. $31\frac{1}{2}^{\circ}$ E.,
 215 lks. dist., marked T 4 S R 15 W S 33 B T.
 An ironwood, 6 ins. in diam., brs. S. $87\frac{1}{4}^{\circ}$ E., 198
 lks. dist., marked T 5 S R 15 W S 4 B T.
 No other trees near. 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, west of cor.
 Land, level.
 Soil, volcanic ash and sand, 3rd rate.
 Timber, palo verde and ironwood along the washes and scattering elsewhere.

West, on a true line, bet. secs. 5 and 32.
 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., of secs. 5 and 32. with brass cap, marked,
 $\frac{1}{4}$ S 32 in N., and
 S 5, 1913 in S. half; from which,
 A palo verde, 6 ins. in diam., brs. S. $62^{\circ}50'$ W.,
 162 lks. dist., marked $\frac{1}{4}$ S 5 B T.
 No other trees near. 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, north of cor.

48.70 Enter palo verde thicket along wash, brs. N. and S. Course of wash south.

62.00 Leave wash and thicket.

68.00 Old road brs. N. and S.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 5, 6, 31 and 32, with brass cap, marked,
 T 4 S S 31 in NW.,
 R 15 W S 32 in NE.,
 S 5 in SE., and
 S 6 in SW. quadrant,
 T 5 S, 1913 on S. half; from which,
 A palo verde, 8 ins. in diam., brs. N. $0^{\circ}20'$ W.,
 285 lks. dist., marked T 5 S R 15 W S 6 B T.
 No other trees near. 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, west of cor.
 Land, level.
 Soil, sandy with volcanic ash and gravel, 3rd rate.
 Timber, palo verde and ironwood along the washes and scattering elsewhere.
 Undergrowth, greasewood.

West, on a true line, bet. secs. 6 and 31.
 Over level land.

1.00 Road brs. SE. and NW.

229.00 Dry wash, 100 lks. wide, course south.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 6 and 31, with brass cap, marked,

BOOK 2694

22. North boundary of Township 5 South, Range 15 West.

Chains.

$\frac{1}{4}$ S 31 in N., and
 S 6, 1913 in S. half; from which,
 An ironwood, 14 ins. in diam., brs. N. $89^{\circ} 57'$ E.,
 199 lks. dist., marked $\frac{1}{4}$ S 31 B T.
 A palo verde, 8 ins. in diam., brs. S. $42\frac{1}{2}^{\circ}$ W.,
 252 lks. dist., marked $\frac{1}{4}$ S 6 B T.

43.00 Enter palo verde and ironwood thicket along wash, course S.
 48.00 Leave thicket and wash.
 64.00 Wash, 100 lks. wide, course S.
 80.84 Intersect cor. of Ts. 4 and 5 S., Rs. 15 and 16 W., establish-
 ed by me July 3, as described on page 26 of this Book.
 July 29, 1913.

West bdy. of Township 5 South, Range 15 West, 23.

Chains.

- July 3, 1913:
North, on a true line, bet. secs. 31 and 36. from the standard cor. of T. 5 S., R. 15 and 16 W., reestablished by W.H. Thorn, as described in Book "C."
- Over level land.
- 9.30 Dry wash, 75 lks. wide, course SE.
25.00 Dry wash, 100 lks. wide, course SE.
36.00 Dry wash, 100 lks. wide, course SE.
43.90 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 31 and 36, with brass cap, marked,
 $\frac{1}{4}$ S 36 in W.,
 S 31 in E., and
 1913 in S. half;
 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.
- 83.90 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, with brass cap, marked,
 T 5 S in N. half;
 R 16 W S 25 in NW.,
 R 15 W S 30 in NE.,
 S 31 in SE., and
 S 36 in SW. quadrant;
 1913 in S. half;
 dig pits, 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
- Land, level.
Soil, sandy, with volcanic ash, 3rd rate.
Timber, palo verde and ironwood along the washes.
Undergrowth, greasewood.
-
- North, on a true line, bet. secs. 25 and 30.
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., of secs. 25 and 30, with brass cap, marked,
 $\frac{1}{4}$ S 25 in W.,
 S 30 in E. half; and
 1913 in S. half; from which,
 An ironwood 8 ins. in diam., brs. S. 5° W., 59 lks. dist., marked $\frac{1}{4}$ S 25 B T.
 A palo verde 8 ins. in diam., brs. N. 82° E., 377 lks. dist., marked $\frac{1}{4}$ S 30 B T.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 19, 24, 25 and 30, with brass cap, marked,
 T 5 S in N. half;
 R 16 W S 24 in NW.,
 R 15 W S 19 in NE.,
 S 30 in SE., and
 S 25 in SW. quadrant,
 1913 in S. half; from which,
 A palo verde, 10 ins. in diam., brs. N. $1\frac{1}{2}^{\circ}$ E., 96 lks. dist., marked T 5 S R 15 W S 19 B T.
 A palo verde, 10 ins. in diam., brs. S. $70\frac{1}{2}^{\circ}$ E., 195 lks. dist., marked T 5 S R 15 W S 30 B T.
 A palo verde 8 ins. in diam., brs. N. 20° W., 220 lks. dist., marked T 5 S R 16 W S 24 B T.
- No other tree near. 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, volcanic ash and sand, 3rd rate.

BOOK 2694

24. West bdy. of Township 5 South, Range 15 West.

Chains.

Timber, scattering pale verde and ironwood.
Undergrowth, greasewood.

- North, on a true line, bet. secs. 19 and 24.
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., of secs. 19 and 24, with brass cap, marked,
 $\frac{1}{4}$ S 24 in W.,
 S 19 in E., and
 1913 on S. half;
 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.
- 55.00 Dry wash, 30 lks. wide, course SE.
- 66.00 Dry wash, 30 lks. wide, course SE.
- 69.00 Dry wash, 30 lks. wide, course SE.
- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 13, 18, 19 and 24, with brass cap, marked,
 T 5 S in N. half;
 R 16 W S 13 in NW.,
 R 15 W S 18 in NE.,
 S 19 in SE., and
 S 24 in SW. quadrant;
 1913 in S. half; from which,
 A pale verde, 8 ins. in diam., brs. S. $8\frac{1}{2}^{\circ}$ W., 121 lks. dist., marked T 5 S R 16 W S 24 B T.
- No other trees near. 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, west of cor.
- Land, level.
Soil, sandy with volcanic ash, 3rd rate.
Timber, scattering pale verde along the washes.
Undergrowth, greasewood.

- North, on a true line, bet. secs. 13 and 18.
Over level land.
- 8.50 Dry wash, 50 lks. wide, course SE.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., of secs. 13 and 18, with brass cap, marked,
 $\frac{1}{4}$ S 13 in W.,
 S 18 in E., and
 1913 in S. half;
 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.
- 69.00 Pale verde and ironwood thicket along wash, 75 lks. wide, course S. 15° E.
- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 7, 12, 13 and 18, with brass cap, marked,
 T 5 S in N. half;
 R 16 W S 12 in NW.,
 R 15 W S 7 in NE.,
 S 18 in SE., and
 S 13 in SW. quadrant;
 1913 in S. half;
 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, west of cor.
- Land, level.
Soil, sandy, with volcanic ash, 3rd rate.

West bdy. of Township 5 South, Range 15 West. 25.

Chains,

Timber, scattering palo verde and ironwood.
Undergrowth, greasewood.

-
- North, on a true line, bet. secs. 7 and 12.
Over level land.
- 35.00 Dry wash, 50 lks. wide, course SE.
39.00 Dry wash, 40 lks. wide, course SE.
40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., of secs. 7 and 12, with brass cap, marked,
 $\frac{1}{4}$ S 12 in W.,
 S 7 in E., and
 1913 in S. half; from which,
 A palo verde, 8 ins. in diam., brs. S. 0° 15' W.,
 75 lks. dist., marked, $\frac{1}{4}$ S 12 B T.
 A palo verde, 8 ins. in diam., brs. N. 41° 45' E.,
 80 lks. dist., marked $\frac{1}{4}$ S 7 B T.
- 80.00 Thence across numerous small surface washes to
 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 1, 6, 7 and 12, with brass cap, marked,
 T 5 S in N. half;
 R 16 W S 1 in NW.,
 R 15 W S 6 in NE.,
 S 7 in SE., and
 S 12 in SW. quadrants;
 1913 in S half;
 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, west of corner.
- Land, level, cut up by a network of small surface washes.
Soil, sandy with volcanic ash, 3rd rate.
Timber, scattering palo verde.
Undergrowth, greasewood.

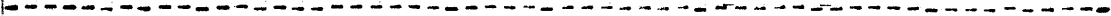
-
- North, on a true line, bet. secs. 1 and 6.
Over level land, through dense growth of high greasewood.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 1 and 6, with brass cap, marked,
 $\frac{1}{4}$ S 1 in W.,
 S 6 in E., and
 1913 in S. half;
 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, west of cor.
- 47.00 Old road brs. NW. and SE.
61.25 Road to Mohawk, brs. S. 25° E. and N. 25° W.
74.25 Telephone line brs. S. 25° E. and N. 25° W.
80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of Tps. 4 and 5 S., Rs. 15 and 16 W., with brass cap, marked,
 T 4 S in N. half;
 R 16 W S 36 in NW.,
 R 15 W S 31 in NE.,
 S 6 in SE., and
 S 1 in SW. quadrant,
 T 5 S, 1913 in S. half;
 dig pits 24x24x12 ins., on each line, N., E. and W. of cor, 4 ft., and S. of cor. 8 ft. dist., and raise a mound of earth 5 ft. base, $2\frac{1}{2}$ ft. high, south of cor.
- Land, level.
Soil, sandy, 3rd rate.
Timber, scattering palo verde.

26. West bdy. of Township 5 South, Range 15 West.

Chains.

Undergrowth, greasewood.

July 3, 1913.



Random North boundary of Township 5 South, Range 16 West, 27.

Chains,
 June 11, 1913.
 From the temp.cor.of Ts. 4 and 5 S., Rs.15 and 16 West,
 I run,
 West, on a random line, bet. secs.1 and 36.
 40.00 Set temp. $\frac{1}{4}$ sec.cor. of secs.1 and 36.
 80.00 Set temp.cor.of secs. 1,2,35 and 36.

West, on a random line, bet. secs.2 and 35.
 40.00 Set temp. $\frac{1}{4}$ sec.cor.of secs.2 and 35.
 80.00 Set temp.cor.of secs. 2,3,34 and 35.

West, on a random line, bet. secs.3 and 34.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.of secs. 3 and 34.
 80.00 Set temp.cor,of secs.3,4,33 and 34.

West, on a random line, bet. secs.4 and 33.
 40.00 Set temp. $\frac{1}{4}$ sec.cor.of secs. 4 and 33.
 80.00 Set temp, cor.of secs. 4,5,32 and 33.

West, on a random line, bet. secs.5 and 32.
 40.00 Set temp. $\frac{1}{4}$ sec.cor. of secs. 5 and 32.
 80.00 Set temp.cor.of secs. 5,6,31 and 32.

West, on a random line, bet. secs.6 and 31.
 40.00 Set temp. $\frac{1}{4}$ sec.cor. of secs. 6 and 31.
 80.00 Set temp. cor.of Ts. 4 and 5 S., Rs.16 and 17 W.
 June 11, 1913.

July 2, 1913.
 At the cor.of Ts.4 and 5 S., Rs.15 and 16 W., at 9h.0m.,
 a.m.,l.m.t., I set off $33^{\circ} 01\frac{1}{2}'$ N. on the lat.arc; 23°
 $04'$ N. on the decl.arc, and determine a meridian with
 the solar.
 Thence I run,
 West, on a true line, bet. secs.1 and 36.
 Over level land.
 4.25 Telephone line from Mohawk to Star mine, brs.NW and SE.
 8.50 Mohawk road brs.NW and SE.
 21.00 Dry wash, 50 lks.wide, course SE.
 40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
 the ground for $\frac{1}{4}$ sec.cor.of secs.1 and 36, with brass
 cap, marked
 $\frac{1}{4}$ S 36 in N., and
 S 1, 1913 in S-half;
 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,
 W.of cor.
 56.75 Dry wash, 25 lks.wide, course SE.
 80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in
 the ground, for cor.of secs. 1,2, 35 and 36, with
 brass cap, marked,
 T 4 S S 35 in NW.,
 R 16 W S 36 in NE',
 S 1, in SE., and
 S 2 in SW.quadrant;
 T 5 S, 1913 in S-half;
 dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist.,and

BOOK 2694

28. North bdy. of Township 5 South, Range 16 West.

Chains.

raise a mound of earth 4 ft. base, 2 ft. high, west of cor.

Land, level.

Soil, sandy, with volcanic ash, 3rd rate.

Timber, palo verde and ironwood thickets along washes, and scattering elsewhere.

Undergrowth, high thick greasewood.

West, on a true line, bet. secs. 2 and 35.

Over level land.

20.25

Wash, 75 lks. wide, course S. 25° 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., of secs. 2 and 35, with brass cap, marked,

$\frac{1}{4}$ S 35 in N., and

S 2, 1913 in S-half;

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.

46.00

Dry wash, 25 lks. wide, course S. 25° E.

77.75

Old road brs. SE. and NW.

80.00

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

T 4 S S 34 in NW.,

R 16 W S 35 in NE.,

S 2 in SE., and

S 3 in SW. quadrant;

T 5 S, 1913 in S-half;

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, west of cor.

Land, level.

Soil, sandy with volcanic ash and gravel, 3rd rate.

Timber, scattering palo verde and ironwood.

Undergrowth, greasewood.

West, on a true line, bet. secs. 3 and 34.

Over level land.

.25

Old road brs. NE. and SW.

16.50

Old road brs. NE. and SW.

28.75

Dry wash, 50 lks. wide, course SE.

40.00

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 3 and 34, with brass cap, marked,

$\frac{1}{4}$ S 34 in N., and

S 3, 1913 in S-half; from which,

An ironwood 8 ins. in diam., brs. N. $56\frac{1}{2}$ ° E., 141 lks. dist., marked $\frac{1}{4}$ S 34 B T.

A palo verde, 6 ins. in diam., brs. S. $83\frac{1}{2}$ ° E., 266 lks. dist., marked $\frac{1}{4}$ S 3 B T.

47.00

Dry wash, 25 lks. wide, course SE.

55.00

Traveled road brs. N. 75° W. and S. 75° E.

80.00

Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 3, 4, 33 and 34, with brass cap, marked,

T 4 S S 33 in NW.,

R 16 W S 34 in NE.,

S 3 in SE., and

S 4 in SW. quadrant;

T 5 S 1913 in S-half; from which,

An ironwood, 6 ins. in diam., brs. S. $71^{\circ}45'$ E., 220 lks. dist., marked T 5 S R 16 W S 3 B T.

No other trees near. Dig pits 18x18x12 ins., in each

Chains.

sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.
 Land, level.
 Soil, volcanic ash and sand covered with gravel, 3rd rate.
 Timber, scattering palo verde and ironwood.
 Undergrowth, greasewood.

27.50
 40.00
 45.50
 48.00
 78.00
 80.00

West, on a true line, bet. secs. 4 and 33.
 Dry wash, 50 lks. wide, course SE.
 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., of secs. 4 and 33, with brass cap, marked,
 $\frac{1}{4}$ S 33 in N., and
 S 4, 1913 in S. half; from which,
 A palo verde, 6 ins. in diam., brs. N. $47\frac{1}{2}^{\circ}$ W., 95 lks. dist., marked $\frac{1}{4}$ S 33 B T.
 A palo verde, 12 ins. in diam., brs. S. $20\frac{1}{2}^{\circ}$ E., 237 lks. dist., marked $\frac{1}{4}$ S 4 B T.
 Dry wash, 30 lks. wide, course S. 70° E.
 Enter wash, 50 lks. wide, course from E. to SE.
 Thence along wash, through dense thicket of palo verde, ironwood and mesquite.
 Leave wash, course from NW. to E.
 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 4, 5, 32 and 33, with brass cap, marked,
 T 4 S S 32 in NW.,
 R 16 W S 33 in NE.,
 S 4 in SE., and
 S 5 in SW. quadrant;
 T 5 S, 1913 in S. half; from which,
 A palo verde, 10 ins. in diam., brs. N. 39° E., 110 lks. dist., marked T 4 S R 16 W S 33 B T.
 A palo verde, 10 ins. in diam., brs. S. $59\frac{1}{2}^{\circ}$ E., 71 lks. dist., marked T 5 S R 16 W S 4 B T.
 A palo verde, 10 ins. in diam., brs. S. $62\frac{1}{2}^{\circ}$ E., 170 lks. dist., marked T 5 S R 16 W S 5 B T.
 A palo verde, 10 ins. in diam., brs. N. 78° W., 83 lks. dist., marked T 4 S R 16 W S 32 B T.

Land, nearly level, cut up with numerous small surface washes.
 Soil, sandy with volcanic ash and gravel, 3rd rate.
 Timber, dense thickets of palo verde, ironwood and mesquite along the washes and scattering elsewhere.
 Undergrowth, mesquite and greasewood.
 Note: At this point, I set off 23°3' N. on the decl. arc; and at noon I observe the sun on the meridian; the resulting lat. is 33° 01 $\frac{1}{2}$ ' N.

33.70
 40.00
 80.00

West, on a true line, bet. secs. 5 and 32.
 Over nearly level land.
 Old road brs. N 10° E. and S. 10° W.
 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 5 and 32, with brass cap, marked,
 $\frac{1}{4}$ S 32 in N., and
 S 5, 1913 in S. half; from which,
 A palo verde, 12 ins. in diam., brs. N. $49^{\circ}45'$ E., 251 lks. dist., marked $\frac{1}{4}$ S 32 B T.
 A palo verde, 12 ins. in diam., brs. S. $26^{\circ}20'$ E., 253 lks. dist., marked $\frac{1}{4}$ S 5 B T.
 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 5, 6, 31 and 32, with brass cap, marked,

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30. North boundary of Township 5 South, Range 16 West.

Chains.

T 4 S S 31 in NW,
R 16 W S 32 in NE,
S 5 in SE, and
S 6 in SW. quadrant;

T 5 S, 1913 in S. half; from which.

An ironwood 8 ins. in diam., brs. N. 62° E., 309
lks. dist., marked T 4 S R 16 W S 32 B T.

An ironwood, 8 ins. in diam., brs. S. 29½° E., 569
lks. dist., marked T 5 S R 16 W S 5 B T.

An ironwood, 10 ins. in diam., brs. S. 9½° W., 11
lks. dist., marked T 5 S R 16 W S 6 B T.

A palo verde, 8 ins. in diam., brs. N. 13° 45' W.,
310 lks. dist., marked T 4 S R 16 W S 31 B T.

Land, nearly level, gradual E. slope.

Soil, volcanic ash and gravel, 3rd rate.

Timber, palo verde, ironwood and mesquite.

Undergrowth, greasewood and mesquite.

West, on a true line, bet. secs. 6 and 31.

Over nearly level land.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
the ground, for ¼ sec. cor. of secs. 6 and 31, with
brass cap, marked

¼ S 31 in N., and

S 6, 1913 in S. half; from which,

An ironwood, 8 ins. in diam., brs. N. 2° W., 69
lks. dist., marked ¼ S 31 B T.

An ironwood, 6 ins. in diam., brs. S. 54½° W., 56
lks. dist., marked ¼ S 6 B T.

57.75 Dry wash, 100 lks. wide, course S. 5° W.

80.67 Intersect cor. of Ts. 4 and 5 S., Rs. 16 and 17 W., set
by W.H. Thorn, U.S. Surveyor, on June 19, 1913, and
described by him in his notes of the survey of the
west bdy. of T. 5 S., R. 16 W., in Book "B."

July 2, 1913.

East boundary of Township 4 South, Range 13 West. 31.

Chains.

Sept. 23, 1913:

At the cor. of Ts. 4 and 5 S., Rs. 12 and 13 West, I set off 0°03' S. on the decl. arc, and at 11h.52m. a.m., l.m.t., I observe the sun on the meridian; the resulting lat. is 33° 01½' N.

Thence I run, North, on a true line, bet. secs. 31 and 36. Over broken rocky ground.

3.00
17.00
35.00
40.00

60.00
68.00
74.00
78.20
80.00

Ascend gradual SW. slope.
Top of ascent of mesa, brs. NW. and SE.
Descend NE. slope.
Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in a mound of stone 3 ft. base, 2½ ft. high, for ¼ sec. cor., of secs. 31 and 36, with brass cap, marked,
 ¼ S 36 in. W.,
 S 31 in E., and
 1913 in S. half;
build a mound of stone 4 ft. base, 3 ft. high, west of cor. Pits not practicable.
Bottom of descent, brs. E. and W.
Thence over level land to
Dry wash, 100 lks. wide, 8 ft. deep, course SE.
Dry wash, 200 lks. wide, banks 5 ft. high, course SE.
Road brs. NW. and SE.
Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, with brass cap, marked,
 T 4 S in N. half;
 R 13 W S 25 in NW.,
 R 12 W S 30 in NE.,
 S 31 in SE., and
 S 36 in SW. quadrant,
 T 5 S, 1913 in S. half; from which,
An ironwood, 12 ins. in diam., brs. N. 41½° E., 176 lks. dist., marked T 4 S R 12 W S 30 B T.
An ironwood, 8 ins. in diam., brs. S. 57½° E., 221 lks. dist., marked T 4 S R 12 W S 31 B T.
A palo verde, 10 ins. in diam., brs. S. 40½° W., 237 lks. dist., marked T 4 S R 13 W S 36 B T.
A palo verde, 18 ins. in diam., brs. N. 78° 45' W., 439 lks. dist., marked T 4 S R 13 W S 25 B T.
Land, 60.00 chs. mountainous; remainder in valley.
Soil, sandy with volcanic ash and gravel on last 20.00 chs., 3rd rate; remainder rocky and worthless.
Timber, palo verde and ironwood along the washes.
Note: At this corner, at 2h. 0m. p.m., l.m.t., I set off 33° 02½' N. on the lat. arc; 0°05' S. on the decl. arc, and determine a meridian with the solar.

North, on a true line, bet. secs. 25 and 30. Over level land.

30.00
39.75
40.00

55.00
80.00

Dry wash, 50 lks. wide, course S. 5° E.
Old road brs. N. 15° W. and S. 15° E.
Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., of secs. 25 and 30, with brass cap, marked,
 ¼ S 25 in W.,
 S 30 in E., and
 1913 in S half; from which,
An ironwood, 10 ins. in diam., brs. N. 77° E., 159 lks. dist., marked ¼ S 30 B T.
No other trees near. Dig pits 18x18x12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, west of cor.,
Old road brs. N. 10° W. and S. 10° E.
Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 19, 24, 25 and 30, with brass cap, marked,

32. East boundary of Township 4 South, Range 13 West.

Chains.

T 4 S in N. half;
 R 13 W S 24 in NW.,
 R 12 W S 19 in NE.,
 S 30 in SE., and
 S 25 in SW. quadrant;
 1913 in S. half; from which,
 A palo verde 6 ins. in diam., brs. S. 89° 59' E.,
 239 lks. dist., marked T 4 S R 12 W S 30 B T.
 No other trees near. Dig pits 18x18x12 ins., in each
 sec. 5½ ft. dist., and raise a mound of earth 4 ft. base,
 2 ft. high, west of cor.

Land, level.

Soil, volcanic ash and sand, 3rd rate.

Timber, scattering palo verde and ironwood.

Undergrowth, greasewood.

40.00

North, on a true line, bet. secs. 19 and 24.
 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground for ¼ sec. cor. of secs. 19 and 24, with
 brass cap, marked,

¼ S 24 in W., and

S 19 in E., and

1913 in S. half; from which,

A palo verde, 8 ins. in diam., brs. N. 59½° E.,

147 lks. dist., marked ¼ S 19 B T.

No other trees near. Dig pits 18x18x12 ins., N. and S.
 of cor. 3 ft. dist., and raise a mound of earth 3½ ft.
 base, 1½ ft. high, west of cor.

62.00

Dry wash, 50 lks. wide, banks 5 ft. high, course SE.

80.00

Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
 the ground for cor. of secs. 13, 18, 19 and 24, with
 brass cap, marked,

T 4 S in N. half;

R 13 W S 13 in NW.,

R 12 W S 18 in NE.,

S 19 in SE., and

S 24 in SW. quadrant;

1913 in S. half; from which,

An ironwood, 10 ins. in diam., brs. N. 74° W., 258

lks. dist., marked T 4 S R 13 W S 13 B T.

No other trees near. Dig pits 18x18x12 ins., in each sec.
 5½ ft. dist., and raise a mound of earth 4 ft. base, 2 ft.
 high, west of cor,

Land, level.

Soil, sandy, with volcanic ash and gravel, 3rd rate.

Timber, palo verde and ironwood.

Undergrowth, greasewood.

Sept. 23, 1913.

Sept. 23, 1913:

At 8h. 0m. a.m., l.m.t., I set off 33° 04½' N. on the lat. arc;
 0° 45' S. on the decl. arc, and determine a meridian with
 the solar, at the cor. of secs. 13, 18, 19 and 24.

Thence I run,

North, on a true line, bet. secs. 13 and 18.

Over rolling ground.

9.00

Ravine, 100 lks. wide, 10 ft. deep, course SE.

40.00

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for ¼ sec. cor., of secs. 13 and 18, with
 brass cap, marked,

¼ S 13 on W.,

S 18 in E., and

1913 in S. half; from which,

A palo verde, 15 ins. in diam., brs. S. 28½° E.,

92 lks. dist., marked ¼ S 18 B T.

East boundary of Township 4 South, Range 13 West. 33.

Chains.

A palo verde, 8 ins. in diam., brs.S.57 $\frac{1}{2}$ °W.,253 lks.dist., marked $\frac{1}{4}$ S 13 B T.

47.00 Old road brs.NW. and SE.

80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for cor.of secs.7,12,13 and 18, with brass cap, marked,

T 4 S in N.half;
R 13 W S 12 in NW.,
R 12 W S 7 in NE.,
S 18 in SE., and
S 13 in SW. quadrant;
1913 in S.half; from which,

A palo verde,12ins. in diam., brs.N.76°W.,142 lks.dist., marked T 4 S R 13 W S 12 B T.

No other trees near. 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, west of cor.

Land, rolling.
Soil, volcanic ash and sand with gravel surface, 3rd rate.
Timber, scattering palo verde and ironwood.
Undergrowth, greasewood.

North, on a true line, bet. secs.7 and 12.
Over rolling 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. of secs. 7 and 12, with brass cap, marked,

$\frac{1}{4}$ S 12 in W.,
S 7 in E., and
1913 in S.half;

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, west of cor.

45.00 Ascend small rocky hill, brs.N.and S.
Top of hill, brs.N.and S.
Descend west slope.

52.50 Thence over level land.

80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for cor.of secs. 1,6,7 and 12, with brass cap, marked,

T 4 S in N.half;
R 13 W S 1 in NW.,
R 12 W S 6 in NE.,
S 7 in SE., and
S 12 in SW. quadrants;
1913 in S.half;

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, rolling.
Soil, sandy with volcanic ash, and covered with gravel, 3rd rate. Across rocky hill, 5.00 chs., worthless.
Timber, scattering palo verde and ironwood.
Undergrowth, greasewood and mesquite.

Note: At this corner I set off 0°49'S. on the decl. arc; and at 11h. 52m. a.m.,1.m.t., I observe the sun on the meridian; the resulting lat.is 33° 06'N.

North, on a true line, bet. secs.1 and 6.
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. of secs.1 and 6, with brass cap, marked,

$\frac{1}{4}$ S 1 in W.,
S 6 in E., and
1913 in S.half;

dig pits 18x18x12 ins., N.and S.of cor. 3 ft. dist.,

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34. East boundary of Township 4 South, Range 13 West.

Chains.

and raise a mound of earth,
 $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, west of cor.
 62.00 Dry wash, 50 lks.wide, course SE.
 71.00 Enter dry wash, 4 chs.wide, course $S.5^{\circ}E.$
 78.00 Leave wash, course $S.5^{\circ}E.$
 80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in
 the ground, for cor. of Ts.3.and 4 S., Rs.12 and 13 W.,
 with brass cap, marked,
 T 3 S in N.half;
 R 13 W S 36 in NW.,
 R 12 W S 31 in NE.,
 S 6 in SE.,and
 S 1 in SW. quadrant;
 T 4 S, 1913 in S.half; from which,
 An ironwood, 15 ins. in diam., brs.N. $32^{\circ}E.$, 110
 lks.dist., marked T 3 S R 12 W S 31 B T.
 A palo verde, 8 ins. in diam., brs.S. $2^{\circ}E.$, 99
 lks.dist., marked T 4 S R 12 W S 6 B T.
 A palo verde, 12 ins. in diam., brs.S. $58^{\circ}W.$,
 233 lks.dist., marked T 4 S R 13 W S 1 B T.
 A palo verde, 8 ins. in diam., brs.N. $40^{\circ}W.$, 248
 lks.dist., marked T 3 S R 13 W S 36 B T.

Land, level.

Soil, sandy, with volcanic ash and gravel.

Timber, scattering palo verde and ironwood.

Undergrowth, greasewood and mesquite.

Sept. 25, 1913.

Chains.

Sept. 26, 1913.

At 8h. 0m. a.m., l.m.t., I set off 33° 07' N. on the lat. arc; 1° 08' S. on the decl. arc, and determine a meridian with the solar at the cor. of Ts. 3 and 4 S., Rs. 12 and 13 W. hereinbefore described.

Thence I run, West, on a random line, along the north bdy. of Tp. 4 S., R 13 W., setting temp. 1/4 sec. and sec. cors. at intervals of 40.00 chs.; and at 479.69 chs., I fall 14 lks. N. of the cor. of Ts. 3 and 4 S., Rs. 13 and 14 W. heretofore described. This falling answers to a correction of 0° 01', or 2 1/3 lks. S. per mile, counting from the NE. corner of the Tp.

Sept. 26, 1913.

Sept. 27, 1913:

At 9h. 0m. a.m., l.m.t., I set off 33° 07' N. on the lat. arc; 1° 33' N. on the decl. arc, and determine a meridian with the solar at the cor. of Ts. 3 and 4 S., Rs. 12 and 13 W. hereinbefore described.

Thence I run, S. 89° 59' W., on a true line, bet. secs. 1 and 36.

1.00
6.00
35.00
40.00

Enter dry wash, course S. 5° E.
Leave wash, course S. 5° E.
Ravine, 200 lks. wide, 20 ft. deep, course south.
Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor., of secs. 1 and 36, with brass cap, marked,

1/4 S 36 in N., and
S 1, 1913 in S. half; from which,
A palo verde, 12 ins. in diam., brs. N. 38° E., 198 lks. dist., marked 1/4 S 36 B T.
A palo verde, 12 ins. in diam., brs. S. 52° W., 280 lks. dist., marked 1/4 S 1 B T.

47.00
60.00
80.00

Old road brs. N. 5° W. and S. 5° E.
Ravine, 200 lks. wide, 15 ft. deep, course S.
Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 1, 2, 35 and 36, with brass cap, marked,

T 3 S S 35 in NW.,
R 13 W S 36 in NE.,
S 1 in SE., and
S 2 in SW. quadrant;
T 4 S, 1913 in S. half; from which
A palo verde, 8 ins. in diam., brs. N. 14° E., 127 lks. dist., marked T 3 S R 13 W S 36 B T.
A palo verde, 6 ins. in diam., brs. S. 16° E., 142 lks. dist., marked T 4 S R 13 W S 1 B T.
A palo verde, 8 ins. in diam., brs. S. 53° W., 137 lks. dist., marked T 4 S R 13 W S 2 B T.
A palo verde, 6 ins. in diam., brs. N. 83° W., 51 lks. dist., marked T 3 S R 13 W S 35 B T.

Land, rolling, with deep washes.
Soil, volcanic ash and sand covered, with gravel and scattering rocks, 3rd and 4th rate.
Timber, scattering palo verde and ironwood.
Undergrowth, greasewood and mesquite.

S. 89° 59' W., on a true line, bet. secs. 2 and 35.
Over rolling, broken land.

15.00
31.00
40.00

Dry wash, 50 lks. wide, banks 5 ft. high, course S.
Ravine, 200 lks. wide, 20 ft. deep, course S.
Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor. of secs. 2 and 35, with brass cap, marked,

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36. North boundary of Township 4 South, Range 13 West.

Chains:

$\frac{1}{2}$ S 35 in N., and
 S 2, 1913 in S. half; from which,
 A palo verde, 8 ins. in diam., brs. N. 30° E., 19
 lks. dist., marked $\frac{1}{2}$ S 35 B T.
 No other trees near. 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, north of cor.
 43.00 Ravine, 200 lks. wide, 20 ft. deep, course south.
 67.00 Descend into bottom, brs. NW. and SE.
 77.00 Dry wash, 100 lks. wide, banks 5 ft. deep, course S. 60° W.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
 the ground, for cor. of secs. 2, 3, 34 and 35, marked on
 brass cap; T 3 S S 34 in NW.,
 R 13 W S 35 in NE.,
 S 2 in SE., and
 S 3 in SW. quadrant;
 T 4 S, 1913 in S. half; from which,
 An ironwood, 12 ins. in diam., brs. N. $72^{\circ}15'$ E.,
 172 lks. dist., marked T 3 S R 13 W S 35 B T.
 A palo verde 20 ins. in diam., brs. S. 38° W., 114
 lks. dist., marked T 4 S R 13 W S 3 B T.
 An ironwood, 36 ins. in diam., brs. N. $32\frac{1}{2}^{\circ}$ W., 115
 lks. dist., marked T 3 S R 13 W S 34 B T.
 No other trees near.
 Build a mound of stone, 4 ft. base, $2\frac{1}{2}$ ft. high, west of
 corner.
 Land, rolling, broken with washes and ravines.
 Soil, sandy with volcanic ash, covered with gravel and
 scattering stones, 4th rate.

Note: At the cor. of secs. 2, 3, 34 and 35, I set off 1°
 36' S. on the decl. arc, and at 11h. 51 $\frac{1}{2}$ m. a.m., l.m.t.,
 I observe the sun on the meridian; the resulting
 latitude is $33^{\circ}07'$ N.

Thence I run,
 S. $89^{\circ}59'$ W., on a true line, bet. secs. 3 and 34.
 In bottom land.
 15.00 Leave bottom, brs. NW. and SE.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 6 ins. in
 the ground, and build a mound of stone around cor. 3 ft.
 base, 2 ft. high, for $\frac{1}{4}$ sec. cor. of secs. 3 and 34, with
 brass cap, marked,
 $\frac{1}{2}$ S 34 in N., and
 S 3, 1913 in S. half;
 pits impracticable. Build a mound of stone 3 ft.
 base, $2\frac{1}{2}$ ft. high, north of cor.
 41.00 Bottom of ravine, 300 lks. wide, 25 ft. deep, course SE.
 60.00 Ravine, 400 lks. wide, 40 ft. deep, course SE.
 74.00 Ravine, 200 lks. wide, 20 ft. deep, course SE.
 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 4 ins.
 in the ground, and build a mound of stone, 4 ft. base,
 $2\frac{1}{2}$ ft. high around post for cor. of secs. 3, 4, 33 and 34,
 with brass cap, marked,
 T 3 S S 33 in NW.,
 R 13 W S 34 in NE.,
 S 3 in SE., and
 S 4 in SW. quadrant;
 T 4 S, 1913 in S. half; from which,
 A palo verde, 18 in. in diam., brs. N. $76\frac{1}{2}^{\circ}$ E.,
 197 lks. dist., marked T 3 S R 13 W S 34 B T.
 A palo verde, 12 ins. in diam., brs. S. $24\frac{1}{2}^{\circ}$ E.,
 84 lks. dist., marked T 4 S R 13 W S 3 B T.
 No other trees near. Pits impracticable.
 Build a mound of stone 4 ft. base, $2\frac{1}{2}$ ft. high, west of
 cor.
 Land, rolling, broken with washes and ravines.
 Soil, sandy, with gravel and rock, 4th rate.

North boundary of Township 4 South, Range 13 West. 37.

Chains.

S.89° 59' W., on a true line, bet. secs.4 and 33.
Over rocky hill.

36.50 Top of spur ridge, brs.NW. and SE.
Descend west slope.

40.00 Set an iron post 3 ft.long, 1 in. indiam., 26 ins. in
a mound of stone 3 ft.base, 2½ ft. high, for ¼ sec.
cor. of secs.4 and 33, with brass cap, marked,
¼ S 33 in N., and
S 4, 1913 in S.half;
pits impracticable. Build a mound of stone 3 ft.
base, 2½ ft. high, N.of cor.
Descend west slope into small valley, brs.N.and S.

54.00 Dry wash, 50 lks.wide, course S.

74.00 Old road brs.N.60°W.

76.00 Old road brs.NW.

80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in
a mound of stone 3 ft.base, 2½ ft. high, for cor.of
of secs.4,5,32 and 33, with brass cap, marked,
T 3 S S 32 in NW.,
R 13 W S 33 in NE.,
S 4 in SE., and
S 5 in SW. quadrant;
T 4 S, 1913 in S.half;
pits impracticable. Build a mound of stone 4 ft.
base, 2½ ft. high, west of cor.
Land, 50.00 chs. rough; 30.00 chs.level.
Soil, 50.00 chs. worthless; 30.00 chs. sandy and stony,
4th rate.
Timber, scattering palo verde and ironwood.
Undergrowth, greasewood and mesquite.

S.89° 59' W., on a true line, bet. secs.5 and 32.

3.00 Dry wash, 100 lks.wide, course SE.

8.00 Leave valley brs.SE. and NW.
Ascend NE. slope, of mountain.

24.00 Old wagon road to a prospect brs.N.and S.

40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
a mound of stone 5 ft.base, 2½ ft. high for ¼ sec.cor.
of secs.5 and 32, with brass cap, marked,
¼ S 32 in N., and
S 5, 1913 in S.half;
pits impracticable. Build a mound of stone 4 ft.
base, 2½ ft. high N.of cor.

46.50 Top of spur, brs.N.and S.
Descend NW. slope.

55.00 Bottom of descent,
Ascend steep east slope.

74.00 Top of ascent spur ridge brs.NW. and SE.
Descend over steep rocky SW. slope.

76.00 Change to south slope.

80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in
a mound of stone 3 ft. base, 2½ ft. high, for cor.of
secs. 5,6,31 and 32, with brass cap, marked,
T 3 S S 31 in NW.,
R 13 W S 32 in NE.,
S 5 in SE., and
S 6 in SW. quadrants;
T 4 S 1913 in S.half;
pits impracticable. Raise a mound of stone 4 ft.
base, 2 ft.high, west of cor. Land mts. Soil, 4th rate.
Timber, scattering palo verde & ironwood. Undergrowth, grease-
wood and mesquite.

S.89°59'W., on a true line, bet. secs.6 and 31.

2.50 Ascend steep east slope.
Top of spur, brs.NW. and SE.

26.00 Bottom of descent.
Dry wash, 20 lks.wide. course N.

BOOK 2694

BOOK 2694

38. North boundary of Township 4 South, Range 13 West.

Chains.

- 40.00 Ascend east slope.
Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in a mound of stone 3 ft. base, $2\frac{1}{2}$ ft. high for $\frac{1}{4}$ sec. cor. of secs. 6 and 31, with brass cap, marked,
 $\frac{1}{4}$ S 31 in N., and
S 6 1913, in S-half;
raise a mound of stone 4 ft. base, 43 ft. high, north of cor.
- 79.69 Thence over gradual west slope to
Intersect cor. of Ts. 3 and 4 S., Rs. 13 and 14 W., established as described by W.H. Thorn, U.S. Surveyor in his notes of the survey of the east bdy. of T. 4 S., R. 14 W. in Book "B."
Land, mountainous and very rough.
Soil, none.

Sept. 27, 1913.

Boundaries of Township 5 South, Range 13 West. 39.

Latitudes, departures and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
E. bdy.	South,	80.14		80.14		
	South,	40.07		40.07		
	S. 0° 28' E.	40.10		40.10	.32	.05
	S. 0° 05' W.	40.14		40.14		.05
	S. 0° 06' E.	40.09		40.09	.07	
	S. 0° 13' E.	40.17		40.17	.15	
	S. 0° 05' E.	40.12		40.12	.06	
	S. 0° 16' E.	80.23		80.23	.38	
	S. 0° 14' E.	80.19		80.19	.33	
South bdy. (1st. Stand. Par. S.)	S. 89° 53' W.	40.17		.09		40.17
	S. 89° 57' W.	39.77		.03		39.77
	S. 89° 40' W.	40.50		.23		40.50
	S. 89° 54' W.	40.00		.07		40.00
	S. 89° 45' W.	40.15		.18		40.15
	S. 89° 57' W.	40.09		.03		40.09
	S. 89° 54' W.	40.18		.07		40.18
	S. 89° 49' W.	40.10		.13		40.10
	S. 89° 45' W.	40.07		.17		40.07
	S. 89° 53' W.	40.14		.08		40.14
	S. 89° 51' W.	40.13		.10		40.13
	S. 89° 48' W.	40.19		.14		40.19
West bdy.	North,	481.50	481.50			
North bdy.	East,	480.00			480.00	
Convergency,					.47	
Totals,			481.50	482.57	481.78	481.54
				481.50	481.54	
Error in lat.,				1.07	.24	
Error in dep.,						

Boundaries of Township 5 South, Range 14 West.
Latitudes, departures and closing errors.

South bdy. (1st. Stand. Par. S.)	S. 89° 57' W.	40.18		.03		40.18
	S. 89° 49' W.	40.18		.13		40.18
	S. 89° 49' W.	40.15		.03		40.15
	S. 89° 43' W.	40.16		.20		40.16
	S. 89° 58' W.	40.16		.02		40.16
	S. 89° 57' W.	40.08		.03		40.08
	S. 89° 52' W.	40.24		.09		40.24
	N. 89° 57' W.	40.11	.04			40.11
	N. 89° 58' W.	40.10	.02			40.10
	S. 89° 56' W.	40.16		.05		40.16
	S. 89° 45' W.	40.11		.18		40.11
	N. 89° 56' W.	40.21	.05		40.21	
West bdy.	North.	482.47	482.47			
North bdy.	East,	481.48			481.48	
East bdy.	South,	481.50		481.50		
Convergency,					.47	
Totals,			482.58	482.26	481.95	481.84
			482.26		481.84	
Error in latitude,			.32			
Error in departure,					.11	

40. Boundaries of Township 5 South, Range 15 West.

Latitudes, departures and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South bdy. (1st.Std.P. South)	S.89°41'W.	40.11		.22		40.11
	N.89°59'W.	40.18	.01			40.18
	S.89°47'W.	40.13		.15		40.13
	S.89°51'W.	40.07		.11		40.07
	S.89°39'W.	40.19		.25		40.19
	S.89°39'W.	40.04		.24		40.04
	S.89°58'W.	40.16		.02		40.16
	S.89°56'W.	40.12		.05		40.12
	N.89°55'W.	40.06	.06			40.06
	S.89°51'W.	40.03		.11		40.03
	S.89°51'W.	40.05		.11		40.05
S.89°56'W.	40.11		.05		40.11	
West bdy.	North,	483.90	483.90			
North bdy.	East,	480.84			480.84	
East bdy.	South,	482.47		482.47		
Convergency,					.47	
Totals,			483.97	483.78	481.31	481.25
			483.78		481.25	
Error in lat.,			.19			
Error in dep.,					.06	

Boundaries of Township 4 South, Range 13 West.
Latitudes, departures and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South bdy.,	West,	480.00				480.00
West bdy.,	North,	480.00	480.00			
North bdy.,	N.89°59'E.	479.69	.14		479.69	
East bdy.,	South,	480.00		480.00		
Convergency,					.47	
Totals,			480.14	480.00	480.16	480.00
			480.00		480.00	
Error in lat.,			.14			
Error in dep.,					.16	

H. S. Dismuff
U. S. Transitman.

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, W. K. Kierulff, U. S. ~~Surveyor~~ Transitman, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of

West & North boundaries of Township 5 S. Range 13 W.

West & North boundaries of Township 5 S. Range 14 W.

West & North boundaries of Township 5 S. Range 15 W.

North boundary of township 5 South Range 16 West.

East & North boundaries of Township 4 S. Range 13 W.

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

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	
<i>W. J. Tavernier</i>	June, 2, 1913	Sept. 27, 1913	1st. Chainman.
<i>O. W. Furson</i>	June, 2, 1913	Sept. 27, 1913	2nd. Chainman.
<i>Roy Hansen</i>	June, 28, 1913	Sept. 27, 1913	Flagman.
<i>Julius Drion</i>	June, 2, 1913	Sept. 27, 1913	Moundman.

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

W. K. Kierulff
U. S. ~~Surveyor~~
Transitman.

FINAL OATH OF UNITED STATES SURVEYOR. TRANSITMAN

I, W. K. Kierulff, ^{Transitman,} U. S. ~~Surveyor~~ do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Arizona, for Group 28 bearing date of the 26 th day of February, 1913, 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

West & North boundaries of Township 5 South Range 13 West.
West & North boundaries of Township 5 South Range 14 West.
West & North boundaries of Township 5 South Range 15 West.
North boundary of Township 5 South Range 16 West.
East & North boundaries of T. 4 South Range 13W of the Gila & Salt River Base and Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for Arizona, for Group 28 and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

W. K. Kierulff
 U. S. ~~Surveyor~~
 TRANSITMAN.

Subscribed by said W. K. Kierulff, and sworn to before me }
 this 7 th day of March, 1914

Frank S. Ingalls
 SURVEYOR GENERAL OF ARIZONA



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona DECEMBER 1 1914

The foregoing field notes of the survey of the West and North boundaries of Townships 5 South, Ranges 13, 14 and 15 West, the North boundary of Township 5 South, Range 16 West, and the East and North boundaries of Township 4 South, Range 13 West of the Gila and Salt River Base and Meridian in the State of Arizona

executed by W. K. Kierulff, U. S. Transitman under ~~his~~ special instructions dated for Group 28 dated February 26, 1913, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S. Ingalls
 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.~~