

2695

Book "B." BOOK 2695
Exteriors

0119

FIELD NOTES

OF THE SURVEY OF THE

West boundary of Township 5 South, Range 16 West,

North, East and West bdrs. of Township 4 South, Range 16 West,

North and East boundaries Township 4 South, Range 15 West,

North and East boundaries of Township 4 South, Range 14 West,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona,

EXECUTED BY

W. H. Thorn,

In the capacity of U. S. Surveyor, under instructions dated Feby. 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
Congress dated Aug. 23, 1912, and June 23, 1913, 191...

Survey commenced June 14, 1913.

Survey completed Sept. 2, 1913.

INDEX DIAGRAM.

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T.5S.R.12W.

T.5S.R.13W.

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T.5S.R.16W.

T.4S.R.13W.

T.4S.R.14W.

T.4S.R.15W.

T.4S.R.16W.

Chains.

Survey commenced June 14, 1913, and executed with a Young and Sons' light mountain transit, No. 8592, with Smith solar attachment. For description of instrument, and certificate of approval, see page 1, Book "C,"

For field test, see page 1, Book "E."

At 8h. Om. a.m., l. m.t., I set off $32^{\circ}56\frac{1}{2}'$ N. on lat. arc, and $23^{\circ}16\frac{1}{2}'$ N. on the decl. arc, and determine a meridian with the solar at the standard cor. of T. 5 S., Rs. 16 and 17 West, on the First Standard Parallel South, which I reestablished yesterday, as described in Book "C," page 11.

Thence I run,

North, on a true line, along west bdy. of the Tp., setting temp. $\frac{1}{4}$ sec. and sec. cors. at intervals of 40.00 chs.

At 6 miles, 4.87 chs. I fall 67 lks. west of the temp. Tp. cor. set by W.K. Kierulff, U.S. Transitman, June 11, 1913, as described in Book "A."

At the mutual intersection of the N. and S., E. and W. lines I set an iron post, 3 ft. long, 3 ins. in diam., 18 ins. in the ground (struck solid rock) for cor. of Ts. 4 and 5 S., Rs. 16 and 17 W., with brass cap marked,

- T 4 S in N.,
- R 16 W in E.,
- T 5 S in S., and
- R 17 W in W. half;
- S 36 in NW.,
- S 31 in NE.,
- S 6 in SE.,
- S 1 in SW. quadrants;

1913 on S. edge of cap; raised a mound of stone, 3 ft. base, $1\frac{1}{2}$ ft. high around post; could not dig pits; raise a mound of stone 4 ft. base, $2\frac{1}{2}$ ft. high S. of corner. No bearing trees within limits.

June 14, 18 and 19, 1913,

July 29, 1913.

From the reestablished standard cor. of T. 5 S., Rs. 16 and 17 W., described in Book "C," I run,

North, on a true line, bet. secs. 31 and 36, over steep rocky east slope, volcanic rock and boulders.

12.93 Change to steep south slope.

25.44 Top of ridge, brs. E and W.

Descend steep NE. slope, over large boulders.

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

- $\frac{1}{4}$ S 36 on W. half,
- S 31 on E. half, and
- 1913 on S. half;

Pits impracticable; no bearing trees within limits. Raise a mound of stone 3 ft. base, 2 ft. high, west of cor.

53.20 Change to steep north slope.

63.62 Wash, 60 lks. wide, 5 ft. deep, course SW. to N. 10° E.; foot of 500 ft. descent.

74.22 Wash, 100 lks. wide, 10 ft. deep, course SE. Ascend SW. slope.

84.87 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 S 25 in NW.,
- R 16 W S 30 in NE.,
- S 31 in SE., and
- R 17 W S 36 in SW. quadrants;
- 1913 on S. Half of cap near edge.

Raise a mound of stone 4 ft. base, 2 ft. high, W. of cor.; pits impracticable; no bearing trees within limits.

Land, mountainous.

Malpais rock, difficult to survey over.

Greasewood brush and scattering paloverde along washes.

2/ West hdy. of Township 5 South, Range 16 W., G. & S. R. R. & M.
Chains.

North, on a true line, bet. secs. 25 and 30, over SW. slope through scattering greasewood brush and palo verde.

5.00 Change to NW. slope.

9.85 Draw, course NE.

14.33 Wash 20 lks. wide, course NE.

20.00 Ascend steep rocky slope of mountain.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ S 25 on W. half;
 S 30 on E. half; and
 1913 on S. half; Pits impracticable. No bearing trees within limits.

Raise a mound of stone 2 ft. base, 1 ft. high around post.

Raise a mound of stone 3 ft. base, 2 ft. high, west of cor.

43.38 Top of peak, 651 ft. ascent from last wash.

Descend steep north slope, over rock and boulders.

66.00 Foot of descent, brs. E. and W. 600 ft.

66.50 Wash, 250 lks. wide, 4 ft. deep, course east.

74.50 Wash, 30 lks. wide, course south 20° E.

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 S 24 in NW.,
 R 16 W S 19 in NE.,
 S 30 in SE., and
 R 17 W S 25 in SW. quadrant;
 1913 on S. edge of cap;
 dig pits 18x18x12 ins., in each sec., 5½ ft. dist., and raise a mound of earth and stone, 4 ft. base, 2 ft. high, W of cor.

No bearing trees within limits.

Land, mountainous, 66.00 chs.

Rolling, 14.00 chs., stony surface.

Palo verde; ironwood along washes.

Scattering greasewood brush on rolling land.

Malpais soil.

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

Over rolling land, through scattering greasewood brush.

20.85 Wash, 95 lks. wide, 5 ft. banks, course S. 40° E.

27.00 Wash, 80 lks. wide, 3 ft. banks, 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., with brass cap, marked
 $\frac{1}{4}$ S 24 on W. half;
 S 19 on E. half; and
 1913 on S. half;

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

No bearing trees within limits.

44.80 Road brs. N. 40° W. and S. 40° E.

66.00 Wash, 30 lks. wide, 4 ft. banks, course east.

66.80 Wash, 15 lks. wide, 3 ft. deep, course east.

68.00 Wash, 30 lks. wide, course S. 80° E.

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 S 13 in NW.,
 R 16 W S 18 in NE.,
 S 19 in SE., and
 R 17 W S 24 in SW. quadrants.
 1913 on S. half;

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

No bearing trees within limits.

Land, rolling, stony surface.

Chains.

Malpais rock; scattering greasewood brush and palo verde.

North, on a true line, bet. secs. 13 and 18.
Over rolling land, through scattering greasewood brush.

3.40
9.05
20.70
30.00
36.00
40.00

Wash, 40 lks. wide 6 ft. banks, course S. 80° E.
Wash, 30 lks. wide, 4 ft. banks, course S. 80° E.
Wash, 30 lks. wide, 4 ft. banks, course S. 80° E.
Wash, 10 lks. wide, 2 ft. deep, course east.
Wash, 4 chs. wide, 4 ft. banks, course N. 70° E.
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 13 in W. half,
S 18 on E. half, and
1913 on S. half;

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

No bearing trees within limits.

52.50
55.80
65.00
70.00
80.00

Wash, 40 lks. wide, 5 ft. banks, course N. 50° E.
Wagon road brs. N. 50° E. and S. 50° W.
Wash, 30 lks. wide, 6 ft. banks, course N. 25° E.
Wash, 35 lks. wide, 6 ft. banks, course NE.
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 S 12 in NW.,
R 16 W S 7 in NE.,
S 18 in SE., and
R 17 W S 13 in SW. quadrants;
1913 on S. half of cap,

dig pits 18x18x12 ins., in each sec. 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth and stone 4 ft. base, 2 ft. high, west of corner.

No bearing trees within limits.

Land, rolling malpais rock and adobe soil, scattering greasewood brush.

North, on a true line, bet. secs. 7 and 12; ascend SE. slope over stony surface.

3.00
13.40
18.00
23.00
30.00
40.00

Descend NE. slope.
Wash, 30 lks. wide, 5 ft. banks, course N. 20° E.
Wash, 4 chs. wide, 5 ft. banks, course N. 60° E.
Wash, 110 lks. wide, 6 ft. banks, course east.
Ascend SW. slope.

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 12 on W. half;
S 7 on E. half; and
1913 on S. half.

Pits impracticable. No bearing trees within limits.

Raise a mound of stone 4 ft. base, 2 ft. high, W. of corner.

50.00
60.00
67.00
80.00

Change to steep SE. slope.
Change to steep SW slope.
Top of rocky ridge, brs. NW. and SE. Descend steep NE. slope.
Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in mound of stone, 4 ft. base, 2 ft. high, for cor. of secs. 1, 6, 7 and 12, with brass cap, marked

T 5 S S 1 in NW.,
R 16 W S 6 in NE.,
S 7 in SE., and
R 17 W S 12 in SW. quadrants,
1913 on S. half of cap;

West boundary of Township 5 South, Range 16 West.

Chains.

Pits impracticable. No bearing trees within limits.
Raise a mound of stone, 4 ft. base, 2 ft. high, W. of cor.
Land mountainous.
No soil; malpais rock.

- 22.00 North, on a true line, bet. secs. 1 and 6.
Over mountainous land volcanic rock boulders NE. slope.
Wash, 40 lks. wide, 3 ft. banks, course NE. 300 ft. descent;
thence over rolling land.
- 25.00 Wash, 40 lks. wide, 3 ft. banks, course east.
- 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 on W. half;
S 6 on E. half; and
1913 on S. half;
pits impracticable. No bearing trees within limits.
Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
- 42.00 Top of low ridge, brs. E. and W.; descend.
- 51.88 Wash, 30 lks. wide, 4 ft. banks, course S. 80° E.
- 61.90 Wash, 60 lks. wide, 3 ft. banks, course east.
- 80.00 Cor. of Ts. 4 and 5 S., Rs. 16 and 17 W., hereinbefore de-
scribed.

Land, mountainous, 22.00 chs., covered with large boulders.
No soil.

Rolling, stony soil, malpais rock; poor soil, 58.00 chs.
Palo verde and palo Fierra timber along washes.

July 29, 1913.

The west boundary of T. 5 S., R. 16 W. runs over rough and
broken mountains, covered with volcanic boulders.
The land is worthless. There is a few palo verde and
palo fierra trees along the washes.

Chains.

June 20, 1913. At 9h. 0m. a.m., l.m.t., I set off $33^{\circ} 01\frac{1}{2}'$ N. on the lat. arc; and $23^{\circ} 27'$ N. on the decl. arc, and determine a meridian with the solar at the cor. of Ts. 4 and 5 S., Rs. 16 and 17 W., hereinbefore described. Thence I run, North, on a true line, bet. secs. 31 and 36.
 .80 Wash, 20 lks. wide, 6 ft. deep, course east.
 9.00 Pass over east end of spur of mountain, brs. NW. and SE.
 28.00 Wash, 60 lks. wide, 10 ft. deep, course east.
 Ascend steep south slope of mountain, over large boulders.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., $1\frac{1}{2}$ ft. in the ground (solid rock; could not set deeper,) for $\frac{1}{4}$ sec. cor., with brass cap, marked,
 $\frac{1}{4}$ S 36 in W. half;
 S 31 in E. half; and
 1913 on S. half;
 raise a mound of stone 3 ft. base, $1\frac{1}{2}$ ft. high around post. Raise a mound of stone 4 ft. base, 3 ft. high, W. of cor. Pits impracticable. No bearing trees within limits.
 55.86 Top of ridge, brs. E. and W., 650 ft. ascent; descend steep N. slope, over large boulders.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 18 ins. in the ground (could not set deeper; struck solid rock) for cor. of secs. 25, 30, 31 and 36. with brass cap, marked
 on brass cap T 4 S S 25 on NW.,
 R 16 W S 30 in NE.,
 S 31 in SE.,
 R 17 W S 36 in SW. quadrants; 1913 on S. edge.
 Pits impracticable.
 55.00 Raise a mound of stone 2 ft. base, 1 ft. high around post.
 50.00 Raise a mound of stone 4 ft. base, 3 ft. high, W. of cor.
 Land, mountainous. No soil, 52.00 (chs. SE. slope 28.00 chs. Malpais soil. Scattering trees along wash.
 Note: A palo verde 4 ins. in diam., brs. N. $76^{\circ} 30'$ W., 115 lks. dist., marked T 4 S, R. 17 W. S 25 B T.
 No other bearing trees within limits.

North, on a true line, bet. secs. 25 and 30, over gradual N. slope of mountain.
 6.20 Wash, 5.00 chs. wide, 10 ft. banks, course N. 80° E. Thence over gradual east slope.
 32.00 Wash, 20 lks. wide, 4 ft. deep, course N. 75° E.
 34.40 Wash, 30 lks. wide, 4 ft. deep, course east.
 39.50 Wash, 40 lks. wide, 3 ft. deep, course east.
 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 on W. half;
 S 30 on E. half, and
 1913 on S. half; from which,
 A palo verde, 10 ins. in diam., brs. N. $45^{\circ} 30'$ E. 99 lks. dist., marked $\frac{1}{4}$ S 30 B T.
 A palo verde, 4 ins. in diam., brs. S. 47° W., 63 lks. dist., marked $\frac{1}{4}$ S 25 B T.
 41.00 Wash, 40 lks. wide, 3 ft. banks, course SE.
 47.00 Wash, 15 lks. wide, 2 ft. deep, course S. 40° E.
 54.00 Enter malpais rock, brs. N. 15° W. and S. 45° E. (leave volcanic boulders.)
 60.00 Wash, 80 lks. wide, low banks, course S. 50° E.
 73.00 Old wagon road, brs. N. 45° W. and S. 70° E.
 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 4 S S 24 in NW.,
 R 16 W S 19 in NE.,
 S 30 in SE., and
 R 17 W S 25 in SW. quadrants;
 1913 on S. half;

6. West boundary of Township 4 South, Range 16 West.

Chains.

Pits impracticable. No bearing trees within limits.
 Raise a mound of stone 4 ft. base, 3 ft. high, W. of cor.
 Land, gradual east slope, stony surface.
 Malpais soil.
 Palo verde and pale fierra timber along washes.
 June 20, 1913.

June 21, 1913: At 8h. 0m. a.m., l.m.t., I set off $33^{\circ} 03\frac{1}{2}'$ N. on lat. arc; and $23^{\circ} 27\frac{1}{2}'$ N. on decl. arc, and determine a meridian with the solar at the cor. of secs. 19, 24, 25 and 30, above described.

Thence I run,
 North, on a true line, bet. secs. 19 and 24.
 Over level land, stony surface; scattering greasewood brush.

- 2.00 Wash, 20 lks. wide, 4 ft. deep, course east.
 - 7.00 Wash, 20 lks. wide, 4 ft. deep, course S. 50° E.
 - 11.90 Wash, 100 lks. wide, 4 ft. banks, course S. 70° E.
 - 18.10 Wash, 50 lks. wide, 4 ft. banks, course east.
 - 29.30 Wash, 60 lks. wide, 4 ft. banks, course S. 80° 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 24 in W. half;
 S 19 on E. half; and
 1913 on S. half;
 dig pits 18x18x12 ins. N. and S. of cor., 3 ft. dist., raise a mound of earth and stone $3\frac{1}{2}$ ft. base, 12 ft. high, W. of cor. No bearing trees within limits.
 - 44.15 Wash, 25 lks. wide, 4 ft. deep, course east.
 - 52.00 Enter sandy soil.
 - 57.00 Wash, 5.00 chs. wide, shallow, course east.
 - 68.00 Old road brs. N. 50° E. and S. 50° W.
 - 69.00 Wash, 40 lks. wide, 4 ft. banks, course east.
 - 72.00 Leave sandy soil; enter malpais soil.
 - 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 S 13 in NW.,
 R 16 W S 18 in NE.,
 S 19 in SE., and
 R 17 W, S 24 in SW. quadrants;
 1913 on S. half; from which,
 A palo verde, 8 ins. in diam., brs. N. $26^{\circ} 30'$ E., 198 lks. dist., marked T 4 S R 16 W S 18 B T.
 A palo verde, 8 ins. in diam., brs. S. $7^{\circ} 30'$ E., 337 lks. dist., marked T 4 S R 16 W S 19 B T.
 A palo verde 6 ins. in diam., brs. S. $4^{\circ} 30'$ W., 293 lks. dist., marked T 4 S R 17 W S 24 B T.
 A palo verde, 5 ins. in diam., brs. N. 44° W., 279 lks. dist., marked T 4 S R 17 W S 13 B T.
- Land, level, sandy soil and malpais soil, scattering greasewood brush. Palo verde and pale fierra along washes.
- 20.00 chs., sandy soil; 60.00 chs. malpais soil, covered with small stones.

North, on a true line, bet. secs. 13 and 18.
 Over level land, through greasewood brush.

- 2.80 Wash, 25 lks. wide, course S. 60° E.
- 14.80 Wash, 100 lks. wide, 4 ft. banks course S. 50° E.
- 33.70 Wash, 40 lks. wide, 4 ft. banks, course east.
- 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

West boundar of Township 4 South, Range 16 West. 7.

Chains.

$\frac{1}{4}$ S 13 on W. half;
 S 18 on E. half; and
 1913 on S. half;
 dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist., and
 raise a mound of earth and stone, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft.
 high, W. of corner.
 No bearing trees within limits.
 43.00 Wash, 4.00 chs. wide, shallow, course east.
 51.00 Wash, 20 lks. wide, 2 ft. deep, course S. 50° E.
 72.50 A shallow wash, 3.00 wide, 3 ft. banks, course S. 60° E.
 76.00 Wood road, brs. N. 40° E. and west.
 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 S 12 in NW.,
 R 16 W S 7 in NE.,
 S 18 in SE., and
 R 17 W S 13 in SW. quadrants;
 1913 on S. edge of cap, on top, from which,
 A palo verde, 8 ins. in diam., bears N. $7^{\circ}30'$ E.
 154 lks. dist., marked T 4 S R 16 W S 7 B T.
 A palo verde, 6 ins. in diam., brs. S. $60^{\circ}30'$ E.,
 135 lks. dist. marked T 4 S R 16 W S 18 B T.
 An ironwood, 4 ins. in diam., brs. S. 18° W., 92
 lks. dist., marked T 4 S R 17 W S 13 B T.
 A palo verde, 8 ins. in diam., brs. N. $26^{\circ}30'$ W.,
 139 lks. dist., marked T 4 S R 17 W S 12 B T.
 From this corner Squaw Peak bears N. $14^{\circ}10'$ W.
 North face of Castle Dome bears S. $89^{\circ}10'$ W.
 West face of square high rock about 20 miles dist. north,
 bears N. 7° E.
 Land, level, malpais soil, covered with small stone and
 gravel; greasewood brush, scattering palo verde and
 ironwood.

June 21, 1913.

June 23, 1913. At 8h.0m. a.m., l.m.t., I set off $33^{\circ}05'$
 N. on lat. arc, and $23^{\circ}27'$ N. on decl. arc, and determine
 a meridian with the solar at the cor. of secs. 7, 12, 13
 and 18, above described.

Thence I run,
 North, on a true line, bet. secs. 7 and 12, over level
 land, through greasewood brush.

2.00 Wash, 15 lks. wide, 3 ft. banks, course S. 70° E.
 6.00 Wash, 20 lks. wide, 4 ft. deep, course S. 70° E.
 25.00 Wash, 100 lks. wide, 4 ft. banks, course S. 60° 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 12 on W. half;
 S 7 on E. half; and
 1913 on S. half; of cap, from which,
 An ironwood, 8 ins. in diam., brs. N. $10^{\circ}30'$ W., 14
 lks. dist., marked $\frac{1}{4}$ S S 12 B T.
 An ironwood, 5 ins. in diam., bears S. $52^{\circ}30'$ E.
 132 lks. dist., marked $\frac{1}{4}$ S 7 B T.
 40.60 Wash, 20 lks. wide, 3 ft. banks, course S. 70° E.
 41.40 Wash, 80 lks. wide, 4 ft. banks, course S. 70° E.
 63.00 Wash, 2.00 chs. wide, 4 ft. banks, course S. 70° 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 4 S S 1 in NW.,
 R 16 W S 6 in NE.,
 S 7 in SE., and
 R 17 W S 12 in SW. quadrants;
 1913 on S. half; of cap,

8. West boundary of Township 4 South, Range 16 West.

Chains.

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

No bearing trees within limits.

Land, level.

Soil, thin adobe and malpais.

Scattering timber and greasewood brush.

North, on a true line, bet. secs. 1 and 6, over level land, through greasewood brush, 4 to 6 ft. high.

1.00 Wash, 20 lks. wide, 3 ft. deep, course S.70°E.
 9.00 Wash, 20 lks. wide, 4 ft. banks, course S.70°E.
 24.00 Wash, 15 lks. wide, 4 ft. deep, course S.70°E.
 36.00 Wash, 30 lks. wide, 4 ft. banks, course east.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked $\frac{1}{4}$ S 1 on W. half; S 6 on E. half, and 1913 on S. half near edge; from which, A palo verde, 6 ins. in diam., bears N.51°E., 143 links dist., marked $\frac{1}{4}$ S 6 B T. An ironwood 8 ins. in diam., bears N.61°40'W., 154 lks. dist. marked $\frac{1}{4}$ S 1 B T. Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high around post. Pits impracticable.

41.20 Wash, 40 lks. wide, 6 ft. banks, course east.
 44.50 Wash, 30 lks. wide, 5 ft. banks, course S.70°E.
 53.30 Wash, 150 lks. wide, 4 ft. banks, course east.
 63.20 Wash, 20 lks. wide, 4 ft. banks, course east.
 67.80 Wash, 20 lks. wide, 4 ft. banks, course east.
 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. 16 and 17 W., with brass cap, marked T 3 S S 36 in NW., R 16 W S 31 in NE., T 4 S S 6 in SE., and R 17 W S 1 in SW. quadrant; 1913 on S. edge of cap, from which, An ironwood, 6 ins. in diam., bears N.71°E., 167 lks. dist., marked T 3 S R 16 W S 31 B T. A palo verde, 12 ins. in diam., bears S.22°45'E., 81 lks. dist., marked T 4 S R 16 W S 6 B T. A palo verde, 6 ins. in diam., brs. S.39°W., 164 lks. dist., marked T 4 S R 17 W S 1 B T. No other trees in limits; pits impracticable. Raise a mound of stone, 3 ft. base, 2 ft. high, S. of corner. North face of Castle Dome rock bears S.78°40'W. Squaw Peak bears N.15°50'W. West face of a square rock, bears N.8°15'E. End of mountain ridge, bears N.27°20'W. Land, level. Malpais soil; surface covered with malpais gravel; greasewood brush, 4 to 6 ft. high. Palo verde and ironwood timber along washes. The largest ironwood tree has been cut down and hauled away. The soil is poor and thin along this line.

June 23, 1913.

East boundary of Township 4 South, Range 16 West. 9.

Chains

June 24, 1913: At 8h. 0m. a.m., l.m.t., I set off 33° $01\frac{1}{2}'$ N. on the lat. arc; and $23^{\circ}26\frac{1}{2}'$ N. on the decl. arc; and determine a meridian with the solar at the cor. of Ts. 4 and 5 S., Rs. 15 and 16 W. established by W.E. Kierulff, U. S. Transitman, as described in Book "A," page 25

Thence I run,
 North, on a true line, bet. secs. 31 and 36, over level land, through greasewood brush.

26.50 Wash 20 lks. wide, 4 ft. banks, course $S.30^{\circ}E.$

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked $\frac{1}{4}$ S 36 on W. half; S 31 on E. half, and 1913 on S. half; from which,
 A palo verde 8 ins. in diam., bears $N.64^{\circ}E.$, 191 lks. dist., marked $\frac{1}{4}$ S 31 B. T.

No other trees in limits. Dig pits $18 \times 18 \times 12$ ins. N. and S. of cor., 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, west of cor.

65.00 Enter dense brush and timber, bears $N.20^{\circ}W.$ and $S.20^{\circ}E.$

77.00 Leave brush and timber, brs. $N.20^{\circ}W.$ and $S.20^{\circ}E.$

80.00 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 S 25 in NW.,
 R 15 W S 30 in NE.,
 S 31 in SE., and
 R 16 W S 36 in SW. quadrants;
 1913 on S. side of cap near edge; from which,
 A palo verde, 8 ins. in diam., brs. $S.12^{\circ}E.$, 258 lks. dist., marked T 4 S R 15 W S 31 B. T.
 A mesquite, 12 ins. in diam., bears $S.49^{\circ}35'W.$, 259 lks. dist., marked T 4 S R 16 W S 36 B. T.

No other trees in limits. Dig pits $18 \times 18 \times 12$ 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.
 White adobe soil; greasewood brush, 4 to 6 ft. high.
 Scattering palo verde.
 Ironwood and mesquite; large trees have been cut.

North, on a true line, bet. secs. 25 and 30.
 Over level land, through greasewood brush and scattering timber.

1.15 Yuma and Phoenix auto road, brs. NW. and SE.

23.00 Wash, 15 lks. wide, 2 ft. banks, course SE.

30.00 Enter brush, 6 to 8 ft. high.

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 on W. half; S 30 on E. half; and 1913 on S. half; from which,
 A palo verde, 4 ins. in diam., bears $N.80^{\circ}E.$, 184 lks. dist., marked $\frac{1}{4}$ S 30 B. T.
 A palo verde, 12 ins. in diam., brs. $S.66^{\circ}W.$, 126 lks. dist., marked $\frac{1}{4}$ S 25 B. T.

50.00 Wash, 10 lks. wide, course $S.20^{\circ}E.$

53.80 Wash, 15 lks. wide, 3 ft. banks, course $S.20^{\circ}E.$

63.80 Wood road brs. $N.70^{\circ}W.$ and $S.70^{\circ}E.$

70.00 Wash, 15 lks. wide, 3 ft. banks, course $S.40^{\circ}E.$

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 4 S S 24 in NW.,
 R 15 W S 19 in NE.,
 S 30 in SE., and
 R 16 W S 25 in SW. quadrant;
 1913 on S. edge of cap,

Chains.

from which,

A palo verde, 8 ins. in diam., brs. N. 69° 40' E.,
79 lks. dist., marked T 4 S R 15 W S 19 B T.

A palo verde 6 ins. in diam., bears S. 62° E., 197
lks. dist., marked T 4 S R 15 W S 30 B T.

A palo verde, 12 ins. in diam., bears N. 44° W., 120
lks. dist., marked T 4 S R 16 W S 24 B T.

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

Land, level adobe soil; greasewood brush 6 to 8 ft. high;
scattering timber.

Palo verde, ironwood and mesquite.

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

Over level land, through greasewood brush, 4 to 8 ft. high;
scattering timber.

27.00 Wash, 20 lks. wide, 3 ft. deep, course S. 40° E.

39.00 Wash, 15 lks. wide, 3 ft. deep, course S. 10° E.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
the ground, for ¼ sec. cor., with brass cap, marked
¼ S 24 on W. half;
S 19 on E. half, and
1913 on S. half; from which,

from which,

A palo verde, 12 ins. in diam., brs. N. 50° W., 177
lks. dist., marked ¼ S 24 B T.

An ironwood, 5 ins. in diam., brs. S. 61° E., 118
lks. dist., marked ¼ S 19 B T.

49.40 Wood road brs. E. and W.

50.50 Wash, 20 lks. wide, 3 ft. banks, course S. 10° E.

58.00 Wash, 15 lks. wide, 3 ft. banks, course S. 10° E.

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 S 13 in NW.,
R 15 W S 18 in NE.,
S 19 in SE., and
R 16 W S 24 in SW. quadrants;
1913 on S. edge of cap,

from which,

An ironwood, 8 ins. in diam., brs. N. 60° E., 127
lks. dist., marked T 4 S R 15 W S 18 B T.

No other trees in limits.

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

Land, level.

Adobe soil; greasewood brush, 6 to 8 ft. high.

Scattering palo verde and ironwood timber.

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

Over level land, through greasewood brush, scattering palo
verde and ironwood timber,

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 on W. half;
S 18 on E. half; and
1913 on S. edge of cap;

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

56.40 Wash, 80 lks. wide, 3 ft. banks, course S. 30° E. Dense
timber along banks.

East boundary of Township 4 South, Range 16 West. 11.

Chains.

72.20 Wash, 20 lks. wide, 2 ft. deep, course S.10° W.
 Leave heavy timber.
 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 S 12 in NW.,
 R 15 W S 7 in NE.,
 S 18 in SE., and
 R 16 W S 13 in SW. quadrants;
 1913 on 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.
 No bearing trees within limits.
 Land, level.
 Adobe soil; greasewood brush. Heavy palo verde and iron
 wood timber along washes.
 June 24, 1913.

June 25, 1913.
 At 9h. 0m. a.m., l.m.t., I set off 33°05' N. on the lat. arc;
 and 23°25' N. on the decl. arc, and determine a meridian
 with the solar at the cor. of secs. 7, 12, 13 and 18, above
 described.

Thence I run,
 North, on a true line, bet. secs. 7 and 12.
 Over level land, through greasewood brush and scattering
 timber.

23.00 A wood road brs. S.80°W. and N.80°E.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for ¼ sec. cor., with brass cap, marked
 ¼ S 12 on W. half;
 S 7 on E. half; and
 1913 on 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,
 W. of cor.

No bearing trees within limits.

45.00 Wash, 6 lks. wide, course S.20°W.
 68.75 Wash, 10 lks. wide, 2 ft. banks, course S.25°W.
 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 S 1 in NW.,
 R 15 W S 6 in NE.,
 S 7 in SE., and
 R 16 W S 12 in SW. quadrants;
 1913 on S. half;

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

No bearing trees within limits.

Land, level adobe soil.

Greasewood brush; scattering palo verde and ironwood
 timber.

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

Over level land, through greasewood brush.

17.00 Wash, 10 lks. wide, 2 ft. deep, course S.20° W.

23.00 Wash, 10 lks. wide, 2 ft. deep, course S.5° E.

34.00 Wash, 10 lks. wide, course S.5°W.

38.00 Wash, 10 lks. wide, course SE.

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 1 on W. half;

S 6 on E. half; and

1913 on S. half; from which,

12. East boundary of Township 4 South, Range 16 West.

Chains.

A palo verde, 10 ins. in diam., brs.S.41°E., 131
 lks.dist., marked $\frac{1}{2}$ S 6 B T.
 An ironwood, 10 ins. in diam., brs.N.44°W., 253
 lks.dist., marked $\frac{1}{2}$ S 1 B T.

45.00 Wash, 10 lks.wide, 2 ft. deep, course SW.
 56.00 Wash, 10 lks.wide, 2 ft. deep, course SE.
 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. 15 and 16
 W., with brass cap, marked
 T 3 S S 36 in NW.,
 R 15 W S 31 in NE.,
 T 4 S S 6 in SE., and
 R 16 W S 1 in SW. q uadrants;
 1913 on S.half;
 dig pits, 24x12 ins., on each line, E.and W. and N.4
 ft. and S.of cor., 8 ft. dist. and raise a mound of
 earth 4 ft.base, 2 ft.high, S.of cor.

No bearing trees.
 Land, level adobe soil.
 Greasewood brush; scattering palo verde and ironwood
 timber.

June 25, 1913.



North boundary of Township 4 South, Range 16 West. 13.

Chains.

June 25, 1913.
At the cor. of Ts. 3 and 4 S., Rs. 15 and 16 W., hereinbefore described, at 10h.0m. a.m., l.m.t., I set off 33° 07' N. on the lat. arc, and 23° 24 1/2' N. on the decl. arc, and determine a meridian with the solar.

Thence I run,
West, on a random line, setting temp. 1/2 sec. and sec. cors. at intervals of 40.00 chains along north bdy. of T. 4 S., R. 16 W.

At 6 miles, 21 links, intersect west bdy. of T. 4 S., R. 16 W., 36 lks. south of the cor. of Ts. 3 and 4 S., Rs. 16 and 17 W. hereinbefore described. This falling answers to a correction of 6 links north per mile or 3'.

Note: At temp. cor. of secs. 1, 2, 35 and 36, I set off 23° 24 1/2' N. on decl. arc, and at noon June 25, 1913, observe the sun on the meridian; the resulting latitude is 33° 07' N.

Random line run June 25 and 26, 1913.

June 27, 1913.
From the cor. of Ts. 3 and 4 S., Rs. 15 and 16 W., hereinbefore described, I run,
N. 89° 57' W., on a true line, bet. secs. 1 and 36.
Over level land.

7.50 Wash, 10 lks. wide, course south.
17.00 Wash, 20 lks. wide, course south.

32.00 Wash, 8 lks. wide, course south.
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor., with brass cap, marked

S 1, 1913 on S. half; and
1/4 S 36 on N. half; from which,
A palo verde, 12 ins. in diam., brs. N. 54° W., 142 links dist., marked 1/4 S 36 B T.
A palo verde, 8 ins. in diam., bears S. 32° 30' W., 271 lks. dist., marked 1/4 S 1 B T.

51.00 Wash, 10 lks. wide, 2 ft. deep, course S. 10° E.
70.00 Wash, 15 lks. wide, 2 ft. deep, course S. 15° W.

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 3 S S 35 in NW.,
R 16 W S 36 in NE.,
T 4 S S 1 in SE., and
S 2 in SW. quadrants;
1913 on S. side of cap on top, from which,
An ironwood, 5 ins. in diam., brs. N. 41° W., 240 lks. dist., marked T 3 S R 16 W S 35 B T.
An ironwood, 6 ins. in diam., brs. S. 78° E., 158 lks. dist., marked T 4 S R 16 W S 1 B T.

No other trees within limits; dig pits 18x18x12 ins., in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.

Land, level.
Adobe soil; scattering timber; ironwood and palo verde.

N. 89° 57' W. on a true line, bet. secs. 2 and 35.
Over level land, through greasewood brush and scattering timber.

7.00 Wash, 12 lks. wide, course south.
30.50 Wash, 15 lks. wide, 2 ft. deep, course S. 10° E.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor., with brass cap, marked

1/4 S 35 on N. half; and
S 2, 1913 on S. half; from which,
A palo verde, 12 ins. in diam., brs. S. 85° E., 77 lks. dist., marked 1/4 S 2 B T.
A palo verde, 4 ins. in diam., brs. N. 2° 35' E., 123 lks. dist., marked 1/4 S 35 B T.

52.40 Wash, 10 lks. wide, course S. 10° E.
70.30 Wash, 15 lks. wide, 2 ft. deep, course S. 10° E.

14. North boundary of Township 4 South, Range 16 West.

Chains.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 2, 3, 35 and 36, with brass cap, marked
 T 3 S S 34 in NW.,
 R 16 W S 35 in NE.,
 T 4 S S 2 in SE., and
 S 3 in SW. quadrant;
 1913 on S. edge of cap, from which,
 A palo verde, 12 ins. in diam., brs. N. 68° 15' E.,
 54 lks. dist., marked T 3 S R 16 W S 35 B T.
 A palo verde, 6 ins. in diam., brs. N. 2° 45' W., 31
 lks. dist., marked T 3 S R 16 W S 34 B T.
 No other trees in limits; dig pits 18x18x12 ins., in each
 sec. 5½ ft. dist., and raise a mound of earth 4 ft.
 base, 2 ft. high, W. of cor.
 Land, level.
 Adobe soil.
 Greasewood brush.
 Palo verde and ironwood timber along washes.

N. 89° 57' W., on a true line, bet. secs. 3 and 34.
 Over level land, through greasewood brush and palo verde
 and ironwood timber.

3.75 Wash, 15 lks. wide, 4 ft. deep, course S. 20° E.
 7.00 Wash, 35 lks. wide, 4 ft. deep, course S. 20° E.
 9.50 Wash, 20 lks. wide, 3 ft. deep, course S. 20° E.
 12.00 Wash, 25 lks. wide, 3 ft. deep, course S. 20° E.
 13.00 Leave heavy timber, bearing N. and S.
 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 34 in N. half; and
 S 3, 1913 on S. half; from which,
 A palo verde, 10 ins. in diam., brs. S. 15° W., 165
 links dist., marked ¼ S 3 B T.
 A palo verde, 16 ins. in diam., brs. N. 14° 30' E.,
 229 links dist., marked ¼ S 34 B T.
 43.30 Wash, 15 lks. wide, 4 ft. deep, course S. 30° E.
 63.00 Wash, 30 links wide, 3 ft. deep, course S. 30° E.
 77.00 Wash, 30 lks. wide, 4 ft. deep, course S. 30° E.
 79.40 Wash, 15 lks. wide, 3 ft. deep, course S. 20° 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 3 S S 33 in NW.,
 R 16 W S 34 in NE.,
 T 4 S S 3 in SE., and
 S 4 in SW. quadrants;

1913 on S. half of cap, from which,
 A palo verde, 14 ins. in diam., brs. N. 75° E., 146
 lks. dist., marked T 3 S R 16 W S 34 B T.

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

Land, level.
 Adobe soil, greasewood brush, 40.00 chs.
 Scattering palo verde and ironwood timber, 40.00 chs.

N. 89° 57' W., on a true line, bet. secs. 4 and 33, over level
 land, through greasewood brush, 3 to 5 ft. high.

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 33 on N. half; and
 S 4 1913 on S. half;

North boundary of Township 4 South, Range 16 West, 15.

Chains,

dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor. No bearings available.

40.70 Telephone line from King Mines to Mohawk, bears N.40°W. and S.40°E.

42.20 Phoenix and Yuma automobile road, brs. N.40°W. and S.40°E.

71.50 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. 4, 5, 32 and 33, with brass cap, marked

T 3 S S 32 in NW.,
R 16 W S 33 in NE.,
T 4 S S 4 in SE., and
S 5 in SW. quadrants;
1913 on S. edge of cap,

dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor. No bearing trees within limits.

Land, level.
Adobe soil.
Scattering greasewood brush and palo verde and ironwood timber.

N. 89° 57' W., on a true line, bet. secs. 5 and 32.

Over level land, through greasewood brush, 3 to 5 ft. high.

19.20 Wood road brs. N. and S.

23.00 Wash, 40 lks. wide, 4 ft. banks, course SE.

29.75 Wood road brs. NW. and SE.

31.20 Wash, 40 lks. wide, 3 ft. banks, course SE.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor., with brass cap, marked

1/4 S 32 on N. half; and
S 5, 1913, on S. half;

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

49.50 Wash, 10 lks. wide, 2 ft. deep, course S. 50° E.

67.20 Wash, 15 lks. wide, 3 ft. deep, 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 3 S S 31 in NW.,
R 16 W S 32 in NE.,
T 4 S S 5 in SE., and
S 6 in SW. quadrants;
1913 on S. edge of cap, from which,
A palo verde, 16 ins. in diam., brs. S. 65° 15' W.,
238 links dist., marked T 4 S R 16 W S 6 B T.

No other trees in limits.

Dig pits 18x18x12 ins., in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.

Land, level.
Adobe soil, and malpais; greasewood brush; scattering palo verde and ironwood timber.

N. 89° 57' W., on a true line, bet. secs. 6 and 31, over level land, through greasewood brush.

3.60 Wash, 10 lks. wide, 2 ft. deep, course SE.

9.40 Wash, 15 lks. wide, 4 ft. deep, course S. 50° E.

31.50 Wash, 10 lks. wide, 2 ft. deep, course S. 60° E.

38.00 Wash, 10 lks. wide, 2 ft. deep, course S. 50° E.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor., with brass cap, marked

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16. North boundary of Township 4 South, Range 16 West.

Chains.

$\frac{1}{4}$ S 31 on N. half; and
 S 6 1913 on S. half;
 dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist.,
 raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of
 corner.
 No bearing trees within limits.
 55.20 Wash, 10 lks. wide, course S. 65° E.
 80.21 Cor. of Ts. 3 and 4 S., Rs. 16 and 17 W., hereinbefore de-
 scribed.
 Land, level.
 Adobe and malpais soil.
 Greasewood brush, palo verde and ironwood timber along
 washes.
 True line run June 27, 28, 1913.

Chains

August 1, 1913.
 At 2h.0m. p.m., l.m.t., I set off $33^{\circ} 01\frac{1}{2}' N.$ on the lat. arc, and $18^{\circ} 01\frac{1}{2}' N.$ on the decl. arc, and determine a meridian with the solar at the cor. of Ts. 4 and 5 S., Rs. 14 and 15 W., established by W.K. Kierulff, U.S. Transitman, as described in Book "A," page 13
 Thence I run,
 North, on a true line, bet. secs. 31 and 36.
 Over level land, through greasewood brush, 4 to 6 ft. high.
 Wash, 10 lks. wide, 2 ft. deep, course $S. 35^{\circ} E.$
 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. half;
 S 31 on E. half; and
 1913 on S. half;
 from which,
 A palo verde, 6 ins. in diam., brs. $S. 57^{\circ} 30' E.$, 160 lks. dist., marked $\frac{1}{4}$ S 31 B T.
 An ironwood, 18 ins. in diam., brs. $S. 56^{\circ} 15' W.$, 354 lks. dist., marked $\frac{1}{4}$ S 36 B T.
 Wash, 30 lks. wide, 3 ft. deep, course $S. 20^{\circ} W.$
 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 S 25 in NW.,
 R 14 W S 30 in NE.,
 S 31 in SE., and
 R 15 W S 36 in SW. quadrants;
 1913 on S. half;
 from which,
 A palo verde, 14 ins. in diam., brs. $N. 38^{\circ} 15' E.$, 6 lks. dist., marked T 4 S R 14 W S 30 B T.
 A palo verde, 12 ins. in diam., brs. $S. 30^{\circ} 15' E.$, 122 lks. dist., marked T 4 S R 14 W S 31 B T.
 A palo verde, 4 ins. in diam., brs. $N. 7^{\circ} 05' W.$, 64 lks. dist., marked T 4 S R 15 W S 25 B T.
 No other trees in limits. Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of corner.
 Land, level.
 Adobe soil; malpais rock, greasewood brush.
 Palo verde and ironwood along washes.

29.70
40.00

66.05
80.00

40.00

43.10
58.00
77.60
80.00

North, on a true line, bet. secs. 25 and 30, over level land, through brush.
 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ S 25 in W. half;
 S 30 on E. half; and
 1913 on S. half; from which,
 A palo verde, 4 ins. in diam., brs. $S. 37^{\circ} 15' E.$, 173 lks. dist., marked $\frac{1}{4}$ S 30 B T.
 A palo verde 10 ins. in diam., brs. $S. 14^{\circ} 15' W.$, 327 lks. dist., marked $\frac{1}{4}$ S 25 B T.
 Road brs. $N. 40^{\circ} W.$ and $S. 40^{\circ} E.$
 Wash, 12 lks. wide, 2 ft. deep, course $S. 20^{\circ} W.$
 Wash, 12 lks. wide, 2 ft. deep, course $S. 20^{\circ} W.$
 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 4 S S 24 in NW.,
 R 14 W S 19 in NE.,
 S 30 in SE., and
 R 15 W S 25 in SW. quadrant;
 1913 on S. half of cap, from which,
 A palo verde, 6 ins. in diam., brs. $S. 2^{\circ} 30' E.$, 283 lks. dist., marked T 4 S R 14 W S 30 B T.

18. East boundary of Township 4 South, Range 15 West.

Chains

An ironwood 10 ins. in diam., brs.S.16°15'W., 321 lks.dist., marked T 4 S R 15 W S 25 B T.
 No other trees in limits. Dig pits 18x18x12 ins., in each sec.5½ ft. dist., and raise a mound of earth 4 ft.base, 2 ft.high, W.of cor.
 Land,level. Adobe soil. Surface of soil covered with malpais gravel; greasewood brush, scattering palo verde and ironwood.

August 1, 1913.

August 4, 1913:

At 9h. 0m. a.m., l.m.t., I set off 33° 03½'N. on the lat. arc, and 17°18½'N. on the decl.arc, and determine a meridian with the solar at the cor.of secs.19,24,25 and 30, above described.

Thence I run,

North, on a true line, bet. secs.19 and 24.
 Over level land, through brush, 3 to 4 ft.high.

9.15
 11.40
 37.50
 40.00

Wash, 25 lks.wide, 4 ft.deep, course SW.

Wash, 30 lks.wide 4 ft.deep, course S.40°W.

Wash, 15 lks.wide, course SW.

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 24 on W.half,
 S 19 on E.half; and

1913 on S.half; from which,

A palo verde, 6 ins. in diam., brs.S.17°30'E.,
 297 lks.dist., marked ¼ S 19 B T.

A palo verde, 10 ins. in diam., brs.S.27°W., 270
 lks.dist., marked ¼ S 24 B T.

49.30
 61.80
 80.00

Wash, 12 lks.wide, course S.30°W.

Mohawk and Harquhala wagon road, brs.N.30°E. and S.30°W.

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 S 13 in NW.,
 R 14 W S 18 in NE.,
 S 19 in SE., and

R 15 W S 24 in SW. quadrants;

1913 on S.half; from which,

An ironwood, 8 ins. in diam., bears N.32°30'W., 74
 lks.dist., marked T 4 S R 15 W S 13 B T.

An ironwood, 8 ins. in diam., bears S.71°W., 90
 lks. dist., marked T 4 S R 15 W S 24 B T.

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

Land,level, adobe soil; malpais gravel. Scattering palo verde and ironwood timber.

Scattering greasewood brush.

North, on a true line, bet. secs.13 and 18, over level land through brush.

8.00
 33.55
 40.00

Wash, 10 lks.wide, course S.30°W.

Wash, 10 lks.wide, 4 ft.banks, course S.40°W.

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 on W.half;

S 18 on E.half; and

1913 on 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, W.of cor. No bearing trees within limits.

50.00
 61.00

Wash, 20 lks.wide, 5 ft.deep, course S.40°W.

Wash, 10 lks.wide, 3 ft. deep, course S.35°W.

East boundary of Township 4 South, Range 15 West. 19.

Chains.

70.00 Wash, 10 lks.wide, 4 ft. deep, course S.40°W.
 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 S12 in NW.,
 R 14 W S 7 in NE.,
 S 18 in SE., and
 R 15 W S 13 in SW. quadrants;
 1913 on S.half; from which,
 An ironwood, 4 ins. in diam., bears N.81°E., 238 lks.dist., marked T 4 S R 14 W S 7 B T.
 An ironwood, 6 ins. in diam., brs.S.63°E., 113 lks.dist., marked T 4 S R 14 W S 18 B T.
 A palo verde, 6 ins. in diam., brs.S.55°W., 208 lks.dist., marked T 4 S R 15 W S 13 B T.
 A palo verde, 5 ins. in diam., bears N.22°W., 228 lks.dist., marked T 4 S R 15 W S 12 B T.

Land,level.
 Adobe soil, covered with malpais rock, greasewood brush; palo verde and ironwood timber scattering.

1.50 North, on a true line, bet. secs.7 and 12,
 20.00 Over level land, through scattering brush.
 27.00 Wash, 15 lks.wide, 4 ft.deep, course S.40°W.
 31.00 Ascend steep south slope of mountain,bare rock.
 35.00 Change to steep east slope.
 40.00 Change to steep north slope.
 44.00 Change to steep south slope.
 50.00 Top of ridge, bears NW. and SE.
 60.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in a mound of stone 4 ft.base, 2½ ft.high, for ¼ sec.cor., with brass cap, marked,
 ¼ S 12 on W.half;
 S 7 on E.half, and
 1913 on S.half; pits impracticable. No bearing trees within limits.
 80.00 Raise a mound of stone 3 ft.base, 1½ ft. high,west of cor.
 Descend NE. slope from corner.
 44.00 Draw, course SE.; ascend.
 50.00 Top of ridge, brs.NW. and SE.
 60.00 Descend NE. slope.
 80.00 Change to gradual west slope.
 80.00 Set an iron post 3 ft.long, 3 ins. in diam., 18 ins. in the ground (struck solid rock) for cor.of secs.1,6, 7 and 12, with brass cap, marked,
 T 4 S S 1 in NW.,
 R 14 W S 6 in NE.,
 S 7 in SE., and
 R 15 W S 12 in SW. quadrants,
 1913 on S.half;
 pits impracticable. No bearing trees within limits.
 Raise a mound of stone 4 ft.base, 3 ft.high, west of corner.
 Raise a mound of stone 3 ft.base, 1 ft. high, around post.
 Land,level, adobe soil, 20.00 chs.
 Mountainous and rocky, 60.00 chs.
 Scattering greasewood on level land; mountainous land, worthless.

At the cor.of secs.1,6,7 and 12, above described, I set off 17°16'N. on the decl.arc, and at noon, observe the sun on the meridian; the resulting latitude is 33°06'N.
 Thence I run,
 North, on a true line, bet. secs.1 and 6.
 Over west slope.

20. East boundary of Township 4 South, Range 15 West.

Chains.

4.64 Ascend steep south slope.
 12.00 Top of spur, bearing N.10°W. and S.10°E.
 14.00 Descend NW. slope.
 19.00 Change to gradual SW. slope.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ S 1 on W. half;
 S 6 on E. half; and
 1913 on S. half;
 dig pits, 18x18x2 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.
 47.50 Wash, 30 lks. wide, 5 ft. deep, course S.30°E.
 57.50 Ascend south slope.
 68.27 Change to steep NE. slope.
 75.00 Change to steep N. slope.
 78.00 Change to gradual north slope.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 12 ins. in
 the ground, (struck solid rock) for cor. of Ts. 3 and 4
 S., Ranges 14 and 15 W. Raise a mound of stone 3 ft.
 base, $1\frac{1}{2}$ ft. high, around post, with brass cap marked,
 T 3 S S 36 in NW.,
 R 14 W S 31 in NE.,
 T 4 S S 6 in SE., and
 R 15 W S 1 in SW. quadrant;
 1913 on S. half;
 raise a mound of stone, 3 ft. base, 2 ft. high, south of
 corner; from which,
 A palo verde, 4 ins. in diam., bears N.36°30'E.,
 221 lks. dist., marked T 3 S R 14 W S 31 B T.
 A palo verde, 5 ins. in diam., bears S.28°W., 149
 lks. dist., marked T 4 S R 15 W S 1 B T.
 No other trees within limits.
 Land, mountainous, 36.00 chs.; no soil.
 Rolling, 44.00 chs., adobe soil.
 Few scattering palo verde.

August 4, 1913.

North boundary of Township 4 South, Range 15 West. 21.

Chains.

August 5, 1913.

At 8h.0m. a.m., l.m.t., I set off 33°07' N. on the lat. arc; and 17°03' N. on the decl. arc, and determine a meridian with the solar at the cor. of Ts. 3 and 4 S., Rs. 14 and 15 W., hereinbefore described.

Thence I run, West, on a random line, along north bdy. of T. 4 S., R. 15 W., setting temp. 1/4 sec. and sec. cors. at intervals of 40.00 chs., and at 480.39 chs. intersect west bdy. of T. 4 S., R. 15 W., 2 lks. south of the cor. of Ts. 3 and 4 S., Rs. 15 and 16 W., hereinbefore described.

Aug. 5, 1913.

Aug. 8, 1913.

From the cor. of Ts. 3 and 4 S., Rs. 14 and 15 W., hereinbefore described, I run,

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

Ascend bare rock.

5.00 Top of spur, brs. N. and S.
16.42 Top of ridge, brs. N. 60° W. and S. 60° E. Descend steep SW. slope.

20.00 Ascend steep broken SE. slope of mountain.

36.00 Top of mountain, 600 ft. ascent; descend over steep SW. 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 1/2 ft. high for 1/4 sec. cor., with brass cap, marked

1/4 S 36 on N. half; and
S 1, 1913 on S. half; pits impracticable.

No bearing trees within limits.

Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor. This cor. is at bottom of cliff, 150 ft. high. Continue over SW. steep slope; large boulders.

54.00 Change to SE. slope.

71.00 Top of low rocky ridge, brs. N. and S. Descend west slope, over large boulders.

75.00 Change to gradual west slope.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 18 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 15 W S 36 in NE.,
T 4 S S 1 in SE., and
S 2 in SW. quadrants;
1913 on S. edge of cap,

raise a mound of stone, 3 ft. base, 1 ft. high around post. Raise a mound of stone 4 ft. base, 2 1/2 ft. high, W. of corner.

Pits impracticable. No bearing trees within limits.

Land, mountainous, volcanic.

No soil.

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

2.00 Foot of hill, brs. N. and S.

Thence over nearly level land, through greasewood brush.

4.00 Wash, 10 lks. wide, course S.

14.80 Wash, 40 lks. wide, 2 ft. banks, course S. 5° W.

21.80 Wash, 40 lks. wide, shallow, course S. 10° W.

38.50 Wash, 30 lks. wide, shallow, course S. 10° W.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor., with brass cap, marked

1/4 S 35 on N. half; and
S 2, 1913 on S. half; from which,

A palo verde, 14 ins. in diam., bears S. 41° 45' W., 75 lks. dist., marked 1/4 S 2 B T.

A palo verde, 6 ins. in diam., bears N. 45° E., 96 lks. dist., marked 1/4 S 35 B T.

42.00 A knoll brs. S. about 20.00 chains.

BOOK 2695

22. North boundary of Township 4 South, Range 15 West.

Chains,

51.90 Wash, 15 lks.wide, course south.
 72.00 Ascend SE. slope.
 78.00 Top of ridge, brs.N.and S. (extends about 8 chs.south of this point.)
 Descend gradual west slope.
 80.00 Set an iron post 3 ft.long, 3 ins. in diam., 16 ins. in the ground, for cor.of secs. 2,3,34 and 35, with brass cap, marked,
 T 3 S S 34 in NW.,
 R 15 W S 35 in NE.,
 T 4 S S 2 in SE., and
 S 3 in SW. quadrant;
 1913 on S.half;
 raise a mound of stone, 4 ft.base, 1 ft. high, around post; raise a mound of stone, 4 ft.base, 2 ft.high, west of corner.
 Pits impracticable. No bearing trees within limits.
 Land, level.
 Adobe soil, 70.00 chs. Rocky 10.00 chs.
 Greasewood brush on level.
 Palo verde and ironwood timber along washes.

West, on a true line, bet. secs.3 and 34.
 Descend west slope, over bare rock.
 5.00 Foot of hill, brs.N.and S. Thence over level land, through brush.
 28.90 Wash, 20 lks.wide, 2 ft.banks, 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 34 on N.half; and
 S 3, 1913 on S.half; from which,
 An ironwood, 8 ins. in diam., bears N.59°W., 109 lks.dist., marked $\frac{1}{4}$ S 34 B T.
 A palo verde, 12 ins. in diam., bears S.41°25'W., 134 lks.dist., marked $\frac{1}{4}$ S 3 B T.
 41.30 Wash, 15 lks.wide, course south.
 53.90 Wash, 10 lks.wide, course S.20°W.
 65.92 Wash, 15 lks.wide, 1 $\frac{1}{2}$ ft. deep, course S.40°W.
 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 3 S S 33 in NW.,
 R 15 W S 34 in NE.,
 T 4 S S 3 in SE., and
 S 4 in SW. quadrants;
 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.
 Land, level, 75.00 chs.
 Adobe soil covered with malpais gravel, 5.00 chs.; rocks.
 Scattering greasewood brush; palo verde and ironwood along washes.

West, on a true line, bet. secs.4 and 33; over level land, through brush.
 2.50 Wash, 20 lks.wide, 2 ft.deep, course SW.
 15.80 Wash, 10 lks.wide, course S.60°W.
 25.35 Road brs.NE.and SW.
 40.00 Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., with brass cap, marked
 $\frac{1}{4}$ S 33 on N.half; and
 S 4 1913 on S.half;
 dig pits 18x18x12 ins., E.and W.of cor. 3 ft. dist.,

North boundary of Township 4 South, Range 15 West, 23.

Chains.

and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor. No bearings available.

44.90 Dim road brs. NW. and SE.
 48.30 Wash, 20 lks. wide, course SW.
 66.20 Road brs. NE. and SW.
 68.40 Wash, 10 lks. wide, course S. 40° W.
 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 3 S S 32 in NW.,
 R 15 W S 33 in NE.,
 T 4 S S 4 in SE., and
 S 5 in SW. quadrant;
 1913 on S. half; from which,

A palo verde, 6 ins. in diam., bears S. 83° E.,
 142 lks. dist., marked T 4 S R 15 W S 4 B T.
 A palo verde, 16 ins. in diam., brs. S. 10° W., 130
 lks. dist., marked T 4 S R 15 W S 5 B T.

No other trees within limits.
 Dig pits, 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
 Land, level.
 Adobe soil. covered with malpais gravel.
 Greasewood brush.
 Palo verde and ironwood timber along washes.

West, on a true line, bet. secs. 5 and 32, over level land, through greasewood brush, 4 to 6 ft. high.

7.80 Road brs. NE. and SW.
 8.30 Wash, 10 lks. wide, course south.
 31.90 Wash, 10 lks. wide, course S. 20° W.
 35.53 Wash, 10 lks. wide, course S. 20° W.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked

$\frac{1}{4}$ S 32 on N. half; and
 S 5 1913 on 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 corner.

No bearing trees within limits.

41.70 Wash, 15 lks. wide, course S. 10° W.
 47.80 Road brs. N. 10° E. and S. 20° W.
 53.10 Wash, 10 lks. wide, course south.
 64.30 Wash, 15 lks. wide, course S. 10° W.
 78.10 Wagon road, brs. N. 10° W. and S. 10° E.
 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 3 S S 31 in NW.,
 R 15 W S 32 in NE.,
 T 4 S S 5 in SE., and
 S 6 in SW. quadrants;
 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, W. of cor.

No bearing trees in limits.
 Land, level.
 Adobe soil, covered with malpais gravel.
 Greasewood brush. Palo verde and ironwood along washes.

West, on a true line, bet. secs. 6 and 31.
 Over level land through greasewood brush, 4 to 6 ft. high.

4.90 Wash, 10 lks. wide, course SW.

BOOK 2695

24. East boundary of Township 4 South, Range 14 West.

Chains.

7.00 Wagon road, brs. N.10°W. and S.10°E.
 21.10 Wash, 10 lks. wide, course south.
 27.40 Wagon road, brs. N.20°W. and S.20°E.
 30.00 Wash, 15 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., with brass cap, marked
 $\frac{1}{4}$ S 31 in N. half; and
 S 6 1913 on 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.

80.39 Cor. of Ts. 3 and 4 S., Rs. 15 and 16 W., hereinbefore de-
 scribed.

Note: At this cor., I set off 16°10'N. on decl. arc, and at noon,
 observe the sun on the meridian; the resulting lati-
 tude, is 33°07'N.

Land, level, adobe soil, covered with malpais gravel.
 Greasewood brush.

Palo verde and ironwood timber along washes.

August 8, 1913.

East boundary of Township 4 South, Range 14 West, 25.

Chains.

August 30, 1913.

At 1h.0m. p.m., l.m.t., I set off 33° 01½' N. on the lat. arc, and 9° 01' N. on the decl. arc, and determine a meridian with the solar at the cor. of Ts. 4 and 5 S., Rs. 13 and 14 W., established by W. K. Kierulff, U.S. Transitman, as described in Book "A," page

Thence I run, North, on a true line, bet, secs. 31 and 36.

Along steep rocky slope (NE) of mountain, over large boulders.

6.00 Change to steep north slope.

17.00 Change to NW. slope.

33.00 Foot of descent, bears E. and W., 500 ft. descent; thence over gradual N. slope, over volcanic rock boulders, and through scattering giant cactus and palo verde timber.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 1 ft. in the ground, for ¼ sec. cor., with brass cap, marked

¼ S 36 on W. half,
¼ S 31 on E. half; and
1913 on S. half;

raise a mound of stone 3 ft. base, 1½ ft. high around post. Raise a mound of stone 4 ft. base, 2 ft. high, W. of corner.

80.00 Pits impracticable. No bearing trees within limits.

Set an iron post 3 ft. long, 3 ins. in diam., 1 ft. in the ground, for cor. of secs. 25, 30, 31 and 36, with brass cap, marked,

T 4 S S 25 in NW.,
R 13 W S 30 in NE.,
S 31 in SE., and
R 14 W S 36 in SW. quadrants;
1913 on S. half;

raise a mound of stone, 3 ft. base, 1½ ft. high around post; raise a mound of stone 3 ft. base, 2 ft. high, W. of corner. Pits impracticable.

No bearing trees within limits.

Land, mountainous, 33.00 chains.

Gradual N. slope, 47.00 chains.

Surface covered with volcanic boulders; very little soil, scattering giant cactus and palo verde.

North, on a true line, bet. secs. 25 and 30, over gradual north slope, over boulders, scattering giant cactus.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in the ground, for ¼ sec. cor., with brass cap, marked

¼ S 25 on W. half;
¼ S 30 on E. half; and 1913 on S. half;

raise a mound of stone 3½ ft. base, 1½ ft. high around post. raise a mound of stone, 3 ft. base, 1½ ft. high, west of cor. Pits impracticable. No bearing trees within limits.

76.20 Wash, 160 lks. wide, 10 ft. banks, course N. 80° E.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 18 ins. in the ground, (struck solid rock) for cor. of secs. 19, 24, 25 and 30, with brass cap, marked.

T 4 S S 24 in NW.,
R 13 W S 19 in NE.,
S 30 in SE., and
R 14 W S 25 in SW. quadrants;
1913 on S. half;

raise a mound of stone, 2 ft. base, 1 ft. high, around post. Raise a mound of stone 4 ft. base, 2 ft. high, W. of cor. Pits impracticable. No bearing trees within limits.

Land nearly level.

Surface, covered with loose stone; very little soil, heavy timber.

BOOK 2695

26. East bdy. of Township 4 South, Range 14 West.

Chains.

Palo verde, ironwood and mesquite along big wash.
Scattered giant cactus.

August 30, 1913.

August 31, 1913.

At 8h. 0m. a.m., 1.m.t., I set off $33^{\circ}03\frac{1}{2}'N.$ on the lat. arc, and $8^{\circ}44\frac{1}{2}'N.$ on the decl. arc, and determine a meridian with the solar at the cor. of secs. 19, 24, 25 and 30, above described.

Thence I run,

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

Over nearly level land, stony surface.

7.00 Wash, 100 lks. wide, 2 ft. banks, course $N.80^{\circ}E.$
10.50 Wagon road, brs. E. and W.
14.60 Wash, 80 lks. wide, 8 ft. banks, course east.
27.40 Wash, 4 chs. wide, 5 ft. banks, course $S.80^{\circ}E.$
Heavy timber along banks.

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 24 on W. half;
S 19 on E. half; and
1913 on S. half; pits impracticable. No

bearings within limits; raise a mound of stone, 3 ft. base, 2 ft. high, west of corner.

80.00 Thence over gradual south slope, through greasewood brush.
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 S 13 in NW.,

R 13 W S 18 in NE.,

S 19 in SE., and

R 14 W S 24 in SW. quadrants; 1913 on S. half;

Pits impracticable. No bearing trees within limits.

Raise a mound of stone, 4 ft. base, 2 ft. high, W. of cor.

Land, nearly level, stony surface, adobe soil, scattering greasewood brush.

Heavy timber. Palo verde and ironwood along washes.

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

Over nearly level land; stony surface.

26.00 Trail brs. $N.80^{\circ}W.$ and $S.80^{\circ}E.$

28.60 Wash, 360 lks. wide, 8 ft. banks course east.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 1 ft. in the ground (solid rock, could not set deeper) for $\frac{1}{4}$ sec. cor., with brass cap, marked

 $\frac{1}{4}$ S 13 on W. half;

S 18 on E. half; and

1913 on S. half;

raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high around post; from which,

A palo verde, 8 ins. in diam., brs. $N.13^{\circ}E.$, 12 links dist., marked $\frac{1}{4}$ S 18 B T.

A palo verde, 14 ins. in diam., brs. $N.83^{\circ}W.$, 132 links dist., marked $\frac{1}{4}$ S 13 B T.

49.40 Wash, 120 lks. wide, 3 ft. banks, course $S.50^{\circ}E.$

59.60 Wash, 160 lks. wide, 8 ft. banks, course east.

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 S 12 in NW.,

R 13 W S 7 in NE.,

S 18 in SE., and

R 14 W S 13 in SW. quadrant;

1913 on S. half; pits impracticable. No bearing trees within limits.

East boundary of Township 4 South, Range 14 West. 27.

Chains.

Raise a mound of stone 4 ft. base, $2\frac{1}{2}$ ft. high, west of cor. Land, nearly level. Adobe soil, stony surface, volcanic rock, 6 to 12 ins. in diam.,
Timber, palo verde and ironwood along washes.
Scattering greasewood brush and giant cactus.

Note: At the above described cor. of secs. 7, 12, 13 and 18, I set off $8^{\circ}40\frac{1}{2}'$ N. on decl. arc, and at noon, observe the the sun on the meridian; the resulting lat. is $33^{\circ}05'$ N. Thence I run, north on a true line, bet. secs. 7 and 12. Over nearly level land, stony surface, scattering greasewood brush.

16.10

Wash, 25 links wide, course $S.40^{\circ}E.$

40.00

Set an iron post 3 ft. long, 1 in. in diam., 6 ins. in the ground (solid rock could not set deeper) for $\frac{1}{4}$ sec. cor., with brass cap, marked,
 $\frac{1}{4}$ S 12 on W. half;
S 7 on E. half, and
1913 on S. half;

pits impracticable. No bearing trees within limits.

Raise a mound of stone 3 ft. base, 2 ft. high, around post.

Raise a mound of stone 3 ft. base, 2 ft. high, west of cor.

54.00

Wash, 25 lks. wide, course SE.

71.60

Wash, 80 lks. wide, 5 ft. banks, course $S.40^{\circ}E.$

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 4 S S 1 in NW.,

R 13 W S 6 in NE.,

S 7 in SE., and

R 14 W S 12 in SW. quadrants;

1913 on S. edge of cap;

pits impracticable. No bearing trees within limits.

Raise a mound of stone, 4 ft. base, $2\frac{1}{2}$ ft. high, west of corner.

Land, nearly level; adobe soil; surface covered with loose stone 6 to 12 ins. in diam.

Palo verde and ironwood along washes.

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

Over nearly level land; scattering greasewood brush.

17.20

Wash, 250 links wide, 6 ft. deep, course $S.40^{\circ}E.$

40.00

Set an iron post 3 ft. long, 1 in. in diam., 1 ft. in the ground (solid rock, could not set deeper) for $\frac{1}{4}$ sec. cor., with brass cap, marked,

$\frac{1}{4}$ S 1 in W. half;

S 6 in E. half; and

1913 on S. half; pits impracticable. No

bearing trees within limits.

Raise a mound of stone 3 ft. base, $1\frac{1}{2}$ ft. high, around post.

Raise a mound of stone, 3 ft. base, 2 ft. high, west of cor.

42.50

Wash, 20 lks. wide, course $S.30^{\circ}E.$

51.30

Wash, 20 lks. wide, 5 ft. banks, course $S.30^{\circ}E.$

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. 13 and 14 W., with brass cap, marked,

T 3 S S 36 in NW.,

R 13 W S 31 in NE.,

T 4 S S 6 in SE., and

R 14 W S 1 in SW. quadrant.

1913 on S. edge of cap; pits impracticable.

No bearing trees available. Raise a mound of stone 4 ft. base, 2 ft. high, S. of cor.

Land, nearly level; adobe soil, 2 to 6 ft. deep; loose volcanic stone; scattering greasewood brush.

Palo verde and ironwood timber along washes.

Scattering giant cactus, chollas, and other varieties of cactus.

The entire 6 miles is over almost worthless land; covered with loose volcanic boulders.

August 31, 1913.

BOOK 2695

28. North boundary of Township 4 South, Range 14 West.

Chains.	
	<p>Aug. 27, 1913. At 9h. 0m. a.m., l.m.t., I set off $33^{\circ}07'N.$ on the lat. arc, and $10^{\circ}08\frac{1}{2}'N.$ on decl. arc, and determine a meridian with the solar at the cor. of Ts. 3 and 4 S., Rs. 14 and 15 W., hereinbefore described.</p> <p>Thence I run, East, on a random line, along north bdy. of Tp. 4 S., R. 14 W., setting temp. $\frac{1}{4}$ sec. and sec. cors. at intervals of 40.00 chs., and at 480.88 chs. fall 11 links north of the cor. of Ts. 3 and 4 S., Rs. 13 and 14 W., hereinbefore described.</p> <p style="text-align: right;">Aug. 27, 28, 29 and 30, 1913.</p> <p>Sept. 1, 1913: From the cor. of Ts. 3 and 4 S., Rs. 14 and 15 W., hereinbefore described, I run, $S. 89^{\circ} 59' E.$, on a true line, bet. secs. 6 and 31. Over mountainous land, bare rock.</p>
2.00	A ravine, 10 lks. wide, 5 ft. deep, course SE. Ascend SW. slope.
12.20	Top of spur, brs. N. and S.; descend east slope.
22.00	Ascend SW. slope.
24.00	Descend NE slope.
30.15	Wash, 60 lks. wide, 5 ft. banks, course $S. 60^{\circ} E.$ Thence over nearly level land.
40.88	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked, $\frac{1}{4} S$ 31 on N. half; and S 6, 1913 on 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. No bearing trees within limits.
43.00	Wash, 10 lks. wide, course south.
44.00	Wagon road brs. N. and S. From this point, Fox Tanks are located about 2 miles north and 1 mile east, which are holes in the rocks, and will hold about 2000 gals. Cannot be depended upon at all times.
58.50	Wash, 45 lks. wide, 4 ft. deep, course $S. 10^{\circ} W.$
78.00	Wash, 15 lks. wide, course south.
80.88	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 3 S S 31 in NW., R 14 W S 32 in NE., T 4 S S 5 in SE., and S 6 in SW. quadrants; 1913 on S. half; near edge; from which, An ironwood, 8 ins. in diam., brs. $S. 47^{\circ} E.$, 102 lks. dist., marked T 4 S R 14 W S 5 B T. A palo verde, 6 ins. in diam., brs. $S. 34^{\circ} 30' W.$, 51 lks. dist., marked T 4 S R 14 W S 6 B T. An ironwood 18 ins. in diam., brs. $N. 89^{\circ} W.$ 121 lks. dist., marked T 3 S R 14 W S 31 B T. No other tree in limit. Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth and stone 4 ft. base, 2 ft. high, west of corner. No bearing trees within limits.
	Land, mountainous, 30.15 chs. Level adobe soil, 50.73 chs. Palo verde and ironwood along washes; also scattering greasewood brush.

	$S. 89^{\circ} 59' E.$, on a true line, bet. secs. 5 and 32. Over level land, through greasewood and scattering palo verde.
12.70	Wash, 40 lks. wide, 5 ft. banks, course south.
19.00	Ascend west slope of low ridge.
23.00	Top of low ridge, brs. N. and S. Descend gradual east slope.
35.65	Drain course SW.

Chains.

- 39.00 Ascend gradual NW. slope.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground (struck solid rock, could not set deeper), for $\frac{1}{4}$ sec. cor., with brass cap, marked,
 $\frac{1}{4}$ S 32 in N. half; and
 S 5, 1913 on S. half; pits impracticable.
 No bearing trees in limits.
 Raise a mound of stone 3 ft. base, 2 ft. high, around corner.
 Raise a mound of stone 3 ft. base, 2 ft. high, N. of corner. Thence over gradual SW. slope.
 67.80 Wash, 20 lks. wide, course S. 40° W.
 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. 4, 5, 32 and 33, with brass cap, marked,
 T 3 S S 32 in NW.,
 R 14 W S 33 in NE.,
 T 4 S S 4 in SE., and
 S 5 in SW. quadrants;
 1913 in S. half; pits impracticable. No bearing trees within limits.
 Raise a mound of stone, 4 ft. base, 2 ft. high, west of cor.
 Land, level; adobe soil, 19.00 chs.
 Bare worthless rock, 61.00 chs.
 Palo verde and ironwood along washes; cholla and giant cactus on hills.
-
- S: 89° 59' E., on a true line, bet. secs. 4 and 33.
 Over bare rocks.
 13.50 Ravine, 20 lks. wide, 5 ft. deep, S. 60° W.
 26.70 Ravine, 25 lks. wide, course S. 60° W., 5-ft. deep.
 35.00 Ascend SW. slope.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 1 ft. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked,
 $\frac{1}{4}$ S 33 on N. half; and
 S 4, 1913 on S. half;
 raise a mound of stone, 3 ft. base, 1½ ft. high, around post.
 Raise a mound of stone 4 ft. base, 2½ ft. high, north of corner.
 No bearing trees within limits; pits impracticable.
 51.00 Descend into canyon.
 69.77 Bottom of canon, a wash, 150 lks. wide, 5 ft. banks, course south, 300 ft. descent.
 Ascend gradual NW. slope.
 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 3 S S 33 in NW.,
 R 14 W S 34 in NE.,
 T 4 S S 3 in SE., and
 S 4 in SW. quadrants;
 1913 on S. half; pits impracticable. No bearing trees within limits.
 Raise a mound of stone 4 ft. base, 2½ ft. high, west of corner.
 Land, rough and broken.
 Very little soil. Cholla and giant cactus.
 Ironwood and palo verde along big wash at bottom of canyon.
-
- S. 89° 59' E., on a true line, bet. secs. 3 and 34.
 19.00 Ascend over steep NW. slope of bare rock.
 Top of ridge, brs. N. and S., 350 ft. above sec. cor.
 Descend over steep SE. slope, over large boulders.

BOOK 2695

30. North boundary of Township 4 South, Range 14 West.

Chains.

26.60	Head of ravine, course SE. Ascend SW. slope.
31.00	Descend.
36.00	Ascend.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in a mound of stone, 4 ft. base, 2½ ft. high, for ¼ sec. cor., with brass cap, marked, ¼ S 34 on N. half; and S 3, 1913 on S. half; pits impracticable; no bearing trees in limits.
41.10	Raise a mound of stone 4 ft. base, 2 ft. high, north of cor. Top of ridge, brs. NW. and SE.; descend.
46.80	Ravine, 20 lks. wide, 10 ft. deep, course S. 10° E. Ascend.
57.00	Top of ridge, brs. N. and S.; descend.
64.00	Ascend.
73.00	Descend steep NE. slope, over large boulders.
78.00	Change to gradual east slope.
80.00	Set an iron post 3 ft. long, 3 ins. in diam., 12 ins. in the ground (solid rock, could not set deeper), for cor. of secs. 2, 3, 34 and 35, with brass cap, marked, T 3 S S 34 in NW., R 14 W S 35 in NE., T 4 S S 2 in SE., and S 3 in SW. quadrants; 1913 on S. half; pits impracticable. No bearing trees in limits.
	Raise a mound of stone 3 ft. base, 1½ ft. high, around post.
	Raise a mound of stone 4 ft. base, 2 ft. high, west of cor.
	Land, mountainous. No soil, a mass of boulders.

	S. 89° 59' E., on a true line, bet. secs. 2 and 35. Over boulders.
1.30	Foot of descent, a ravine, 10 lks. wide, 5 ft. deep, course south.
	Ascend steep west slope.
8.02	Top of ridge, brs. N. and S.
12.80	Descend SE. slope.
17.80	Ravine, 10 lks. wide, 4 ft. deep, course S. 10° W. Ascend.
21.80	Top of ridge, brs. NW. and S. 60° E. Descend.
26.80	Ravine, 20 lks. wide, 10 ft. deep, course SE.
36.00	Top of ridge, brs. N. and S.
37.00	Ravine, 15 lks. wide, 5 ft. deep, course S. Ascend.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground, for ¼ sec. cor., with brass cap, marked, ¼ S 35 on N. half; and S 2, 1913 on S. half; pits impracticable. No bearing trees within limits.
	Raise a mound of stone, 4 ft. base, 1½ ft. high, around post.
	Raise a mound of stone 3 ft. base, 2 ft. high, north of cor.
	Thence over broken SW. slope.
77.00	Top of ridge, 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. 1, 2, 35 and 36, with brass cap, marked, T 3 S S 35 in NW., R 14 W S 36 in NE., T 4 S S 1 in SE., and S 2 in SW. quadrants; 1913 on S. half; pits impracticable. No bearing trees in limits.
	Raise a mound of stone 4 ft. base, 2 ft. high, west of cor.

Chains.

Land, mountainous and broken.
Volcanic rock boulders.
No soil. Cholla cactus.

-
- S.89° 59' E., on a true line, bet. secs.1 and 36.
Over NE. slope of boulders.
- 10.00 Ravine, 20 lks.wide, 10 ft. deep, course S.50°E.
- 23.00 Ravine, 15 lks.wide, course S.40°E.
- 30.18 Ravine, 35 lks.wide, 10 ft. deep, course S.40° E.
- 40.00 Set an iron post 3 ft.long, 1 in. in diam., 12 ins. in
the ground, for $\frac{1}{4}$ sec.cor., with brass cap, marked,
 $\frac{1}{4}$ S 36 on N.half; and
S 1,1913 on S.half;
raise a mound of stone, 3 ft.base, 1 $\frac{1}{2}$ ft. high, around
post.
- Raise a mound of stone, 3 ft.base, 2 $\frac{1}{2}$ ft. high, N.of cor.
Pits impracticable. No bearing trees in limits.
- 42.00 Top of low ridge, brs.N.and S.
- 47.00 Descend gradual east slope.
- 62.00 Ravine, 20 lks.wide, 5 ft. deep, course S.40°E.
- 80.00 Cor.of Ts.3 and 4 S., Rs.13 and 14 W., hereinbefore de-
scribed.
- Land. rough and broken, covered with boulders, 40.00 chs.
Loose stone, 40.00 chs.
No soil; land worthless. Cholla cactus.
Five miles of the line extends over mountains and broken
volcanic boulders and rocks.

Sept.1,2,1913.

Wm. J. ...
Surveyor.

Boundaries of Townships 4 S., Rs. 14, 15, & 16 W. & T. 5 S., R. 16 W. 31, 32

Boundaries of Township 5 South, Range 16 West.
Latitudes, departures and closing errors.

Line designated.	True bearing.	Dist.	Latitude.		Departure.	
			N.	S.	E.	W.
South bdy. (1st. St. Par. S.)	S. 89° 54' W.	481.01		.84		481.01
West bdy.	North,	484.87	484.87			
North bdy.	East,	480.67			480.67	
East bdy.,	South,	483.90		483.90		
Convergency,					.47	
Totals,			484.87	484.74	481.14	481.01
			<u>484.74</u>		<u>484.01</u>	
Error in latitude,			.13			
Error in departure,			.13			

Boundaries of Township 4 South, Range 16 West.
Latitudes, departures and closing errors.

South bdy.	West,	480.67				480.67
West bdy.	North,	480.00	480.00			
North bdy.,	S. 89° 57' E.	480.21		.36	480.21	
East bdy.	South,	480.00		480.00		
Convergency,					.47	
Totals,			480.00	480.36	480.68	480.67
			<u>480.00</u>		<u>480.67</u>	
Error in latitude,			.36			
Error in departure,			.01			

Boundaries of Township 4 South, Range 15 West.
Latitudes, departures and closing errors.

South bdy.	West,	480.84				480.84
West bdy.,	North,	480.00	480.00			
North bdy.,	East,	480.39			480.39	
East bdy.,	South,	480.00		480.00		
Convergency,					.47	
Totals,			480.00	480.00	480.86	480.84
			<u>480.00</u>		<u>480.84</u>	
Error in latitude,			0.00			
Error in departure,			.02			

Boundaries of Township 4 South, Range 14 West.
Latitudes, departures and closing errors.

South bdy.,	West,	481.48				481.48
West bdy.,	North,	480.00	480.00			
North bdy.,	S. 89° 59' E.	480.88		.11	480.88	
East bdy.,	South,	480.00		480.00		
Convergency,					.47	
Totals,			480.00	480.11	481.35	481.48
			<u>480.00</u>		<u>481.35</u>	
Error in latitude,			.11			
Error in departure,			.13			

W. H. Shorn
U. S. Surveyor.

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,
W. H. Thorn, U. S. Surveyor, during the periods and in the capacities
stated opposite our several signatures, in surveying all those parts or portions of
West boundary of Township 5 South, Range 16 West.
North, East & West boundaries of Township 4 South, Range 16 West.
North and East boundaries Township 4 South, Range 15 West.
North and East boundaries of Township 4 South, Range 14 West.

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 direc-
tion; and that said survey has been, in all respects, to the best of our knowledge and belief, well and
faithfully executed.

Table with 4 columns: NAME, PERIOD OF SERVICE (BEGUN, ENDED), CAPACITY. Rows include: Will D. Wilson (Chainman), Roy E. Owen (Chainman), Sam. Gregg (Chainman), Edwin M. Hall (Flagman), Chris. Ludy (Moundman).

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

W. H. Thorn

U. S. Surveyor.

FINAL OATH OF UNITED STATES SURVEYOR.

I, W. H. Thorn, 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 boundary of Township 5 South, Range 16 West.
North, East and West boundaries of Township 4 South, R. 16 West.
North and East boundaries of Township 4 South, Range 15 West.
North and East boundaries of Township 4 South, Range 14 West.

of the Gila and Salt River Base & 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. H. Thorn
 U. S. Surveyor.

Subscribed by said W. H. Thorn, and sworn to before me }
 this 7th 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 boundary of Township No. 5 South, Range No. 16 West, the North, East and West boundaries of Township No. 4 South, Range No. 16 West, the North and East boundaries of Township No. 4 South, Range No. 15 West, and the North and East boundaries of Township No. 4 South, Range No. 14 West of the Gila and Salt River Base and Meridian, in the State of Arizona

executed by W. H. Thorn, U.S. Surveyor under his special instructions dated February 26, 1913 For Group 28, ~~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.