

2701

orig

(1)

Book "H."
Subdivisions

BOOK 2701

FIELD NOTES

OF THE SURVEY OF THE

Subdivision lines of

Township 4 South, Range 15 West,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

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

and

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

~~In the capacity of U. S. Surveyor~~, under instructions dated 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
Congress dated June 23, 1913.

Survey commenced August 6, 1913.

Survey completed August 21, 1913.

(1A)

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INDEX DIAGRAM.

Township 4 South, Range 15 West.

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———— Book "A"
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 - - - - - Unsurveyed.

1. B

Subdivision of Township 4 South, Range 15 West.

Chains.

Survey commenced August 6, 1913, and executed with a Young and Son's light mountain transit No. 8592, with Smith solar attachment. The horizontal limb is provided with two double verniers, placed opposite to each other, reading to single minutes of an arc, which is also the least count of the latitude and declination arcs. I examine the adjustments of the transit, and correct the level and collimation errors, I also test the solar in accordance with special instructions to U.S. Surveyors and transitmen, page 2 of Circular.

At 8h.0m. a.m., l.m.t., I set off $33^{\circ}01\frac{1}{2}'$ N. on lat. arc; and $16^{\circ}47'$ N. on decl. arc, and determine a meridian with the solar at the cor. of secs. 1, 2, 35 and 36 on the south bdy. of the Tp. established by W.K. Kierulff, U.S. Transitman, as described in Book "A."

Thence I run, $N.0^{\circ}01'W.$, on a true line, bet. secs. 35 and 36. Over level land, through greasewood brush.

28.10
35.80
40.00

Wash, 12 lks. wide, course SW.
Wash, 20 lks. wide, 3 ft. deep, course $S.40^{\circ}W.$
Set an iron post $\frac{3}{4}$ 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 on W. half; and $\frac{1}{4}$ S 36 on E. half;

1913 on S. edge of cap; from which,
An ironwood, 14 ins. in diam., brs. $S.65^{\circ}E.$, 117 lks. dist., marked $\frac{1}{4}$ S 36 B T.
A palo verde, 5 ins. in diam., bears $N.1^{\circ}W.$, 247 lks. dist., marked $\frac{1}{4}$ S 35 B T.

75.00
80.00

Wash, 10 lks. wide, 3 ft. deep, course $S.30^{\circ}W.$
Set an iron post $\frac{3}{4}$ ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 25, 26, 35 and 36, with brass cap, marked,

T 4 S S 26 in NW.,
R 15 W S 25 in NE.,
S 36 in SE., and
S 35 in SW. quadrants;
1913 on S. half; from which,

A palo verde, 12 ins. in diam., brs. $N.6^{\circ}30'E.$, 105 lks. dist., marked T 4 S R 15 W S 25 B T.
A palo verde, 12 ins. in diam., bears $S.6^{\circ}E.$, 74 lks. dist., marked T 4 S R 15 W S 36 B T.
A palo verde, 16 ins. in diam., brs. $S.23^{\circ}W.$, 18 lks. dist., marked T 4 S R 15 W S 35 B T.
An ironwood, 14 ins. in diam., brs. $N.2^{\circ}30'W.$, 83 lks. dist., marked T 4 S R 15 W S 26 B T.

Land, level.
Adobe soil, covered with malpais gravel.
Greasewood brush.
Palo verde and ironwood along washes.
Scattering giant cactus.

40.00
79.96

East, on a random line, bet. secs. 25 and 36.
Set temp. $\frac{1}{4}$ sec. cor.
Intersect east bdy. of the Tp., 14 lks. south of the cor. of secs. 25, 30, 31 and 36, established by me, as described in Book "B."

Thence I run, $S.89^{\circ}54'W.$, on a true line, bet. secs. 25 and 36. Over level land, through scattering greasewood.

32.30
391.98

Wash, 40 lks. wide, 5 ft. deep, course SE.
Set an iron post $\frac{3}{4}$ 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 N. half; and $\frac{1}{4}$ S 36, 1913 on S. half; from which,
An ironwood, 14 ins. in diam., brs. $N.58^{\circ}W.$, 165 lks. dist., marked $\frac{1}{4}$ S 25 B T.

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2. Subdivision of Township 4 South, Range 15 West.

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An ironwood, 8 ins. in diam., brs. S. $47^{\circ}45'W.$,
24 $\frac{2}{3}$ lks. dist., marked $\frac{1}{4}$ S 36 B T.
44.70 Mohawk and Harquahala wagon road brs. south, and N. $15^{\circ}E.$
79.96 Cor. of secs. 25, 26, 35 and 36.
Land, level adobe soil, covered with malpais gravel.
Greasewood brush.
Palo verde and ironwood timber along washes.
August 6, 1913.

August 9, 1913:
N. $0^{\circ}01'W.$, on a true line, bet. secs. 25 and 26.
Over level land, through greasewood brush, 4 ft. high.
33.40 Wash, 20 lks. wide, 3 ft. deep, course S. $40^{\circ}W.$
39.20 Wash, 25 lks. wide, 2 ft. deep, course S. $40^{\circ}W.$
40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked,
 $\frac{1}{4}$ S 26 on W. half;
S 25 on E. half; and
1913 on S. half; from which,
An ironwood, 28 ins. in diam., bears S. $42^{\circ}30'W.$,
24 lks. dist., marked $\frac{1}{4}$ S 26 B T.
An ironwood 24 ins. in diam., bears S. $67^{\circ}E.$, 40
lks. dist., marked $\frac{1}{4}$ S 25 B T.
52.60 Wash, 30 lks. wide, 3 ft. deep, course SW.
80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in
the ground, for cor. of secs. 23, 24, 25 and 26, with
brass cap, marked,
T 4 S S 23 in NW.,
R 15 W S 24 in NE.,
S 25 in SE., and
S 26 in SW. quadrants;
1913 on S. half; from which,
An ironwood, 12 ins. in diam., brs. S. $38^{\circ}W.$, 217
lks. dist., marked T 4 S R 15 W S 26 B T.
An ironwood, 8 ins. in diam., brs. N. $42^{\circ}W.$, 231
lks. dist., marked T 4 S R 15 W S 23 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, west of cor.
Land, level adobe soil, covered with malpais gravel.
Greasewood brush; palo verde and ironwood along washes.

40.00 East, on a random line, bet. secs. 24 and 25.
Set temp. $\frac{1}{4}$ sec. cor.
80.02 Intersect east bdy. of Tp., 5 lks. south of the cor. of secs.
19, 24, 25 and 30, established by me, as described in
Book "B."
Thence I run,
S. $89^{\circ}58'W.$, on a true line, bet. secs. 24 and 25.
Over level land, through brush.
9.70 Wash, 15 lks. wide, 2 ft. deep, course SW.
21.00 Mohawk and Harquahala wagon road, brs. N. $30^{\circ}E.$ and S. $30^{\circ}W.$
24.12 Wash, 15 lks. wide, 6 ft. deep, course SW $15^{\circ}W.$
31.82 Wagon road brs. NW. and SE.
33.20 Wash, 15 lks. wide, 8 ft. deep, course south.
40.01 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 N. half;
S 25, 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.

Subdivision of Township 4 South, Range 15 West, 3.

Chains.

57.60 Wash, 60 links wide, 2 ft. deep, course S.15°W.
 68.60 Wash, 20 lks.wide, 2 ft. deep, course south,
 73.70 Wash, 12 lks.wide, 2 ft. deep, course S.20°W.
 80.02 Corner of secs.23,24,25 and 26.
 Land,level adobe soil, covered with malpais gravel.
 Greasewood brush. Pale verde and ironwood timber along
 washes.
 August 9, 1913.

August 11, 1913:
 N.0°01' W., on a true line, bet. secs.23 and 24.
 Over level land, through brush.
 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 23 on W.half;
 S 24 in E.half; and
 1913 on S.half; from which,
 A palo verde, 6 ins. in diam., brs.N.20°E.,160
 lks.dist., marked $\frac{1}{4}$ S 24 B T.
 No other trees in limit. 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.

44.00 Wash, 12 lks.wide, course S.10°E.
 56.00 Wash, 20 lks.wide, course S.20°E.
 65.00 Wash, 10 lks.wide, course S.20°E.
 70.76 A road, brs.NW. and SE.
 80.00 Set an iron post 3 ft.long, 2 ins. in diam., 24 ins. in
 the ground, for cor.of secs. 13,14,23 and 24, with
 brass cap, marked,
 T 4 S S 14 in NW.,
 R 15 W S 13 in NE.,
 S 24 in SE., and
 S 23 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 and stone 4 ft.base, 2 ft.high,
 west of corner.
 Land, level. Adobe soil, covered with malpais gravel.
 Greasewood brush.
 Pale verde and ironwood along washes.

40.00 East, on a random line, bet. secs.13 and 24.
 Set temp. $\frac{1}{4}$ sec.cor.
 80.17 Intersect east bdy.of Tp., 9 lks.south of the cor.of secs.
 13,18,19 and 24, established by me, as described in
 Book "B."
 Thence I run,
 S.89°56' W., on a true line, bet. secs.13 and 24.
 Over level land, scattering greasewood brush.
 28.67 Wash, 30 lks.wide, 4 ft. deep, course S.5° E.
 34.47 Wash, 10 lks.wide, 5 ft.deep, course south.
 40.085 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 on N.half; and
 S 24, 1913 on S.half;
 dig pits 18x18x12 ins., E.and W.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, north of cor.
 51.87 Wash, 20 lks.wide, 6 ft. deep, course south.
 60.57 Wash, 12 lks.wide, 2 ft. deep, course south.
 77.77 Wash, 15 lks.wide, 2 ft. deep, course S.30°E.
 80.17 Cor.of secs.13,14,23 and 24.
 Land,level adobe soil, covered with malpais rock.
 August 11, 1913.

BOOK 2701

4. Subdivision of Township 4 South, Range 15 West.

Chains.

- August 12, 1913: At 9h.0m. a.m., l.m.t., I set off $33^{\circ}04\frac{1}{2}'$ N. on lat. arc, and $15^{\circ}02'$ N. on decl. arc; and determine a meridian with the solar, at the cor. of secs. 13, 14, 23 and 24.
- Thence I run,
N. $0^{\circ}01'$ W., on a true line, bet. secs. 13 and 14.
Over level land, scattering brush.
- 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 14 on W. half;
S 13 on E. half; and
1913 on S. half; from which,
A palo verde, 6 ins. in diam., brs. S. 40° E., 203 lks. dist., marked $\frac{1}{4}$ S 13 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 and stone $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, west of corner.
- 55.00 A ravine, 15 lks. wide, 6 ft. deep, course S. 15° W.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 11, 12, 13 and 14, with brass cap, marked,
T 4 S S 11 in NW.,
R 15 W S 12 in NE.,
S 13 in SE., and
S 14 in SW. quadrants;
1913 on S. half; from which,
An ironwood, 4 ins. in diam., bears N. $1^{\circ}30'$ E., 31 lks. dist., marked T 4 S R 15 W S 12 B T.
An ironwood, 5 ins. in diam., brs. S. 55° E., 27 lks. dist., marked T 4 S R 15 W S 13 B T.
- No other trees 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, W. of cor.
- Land, level. Adobe soil stony, scattering greasewood brush.
Scattering palo verde and ironwood timber; giant cactus.
-
- 40.00 East, on a random line, bet. secs. 12 and 13.
- 80.18 Set a temp. $\frac{1}{4}$ sec. cor.
Intersect east bdy. of Tp., 9 lks. south of the cor. of secs. 7, 12, 13 and 18, established by me, as described in Book "B."
- Thence I run,
S. $89^{\circ}56'$ W., on a true line, bet. secs. 12 and 13.
- 12.00 Wash, 15 lks. wide, course SW.
- 15.00 Wash, 20 lks. wide, course south.
- 34.28 Wash, 10 lks. wide, course south.
- 40.09 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 N. half; and
S 13, 1913 on S. half;
pits impracticable. Raise a mound of stone, 3 ft. base, 2 ft. high, north of cor.
- 47.48 Wash, 20 lks. wide, 5 ft. deep, course south.
- 68.18 Ravine, 12 lks. wide, 6 ft. deep, course south.
- 79.88 Ravine, 15 lks. wide, 6 ft. deep, course S. 30° E.
- 80.18 Cor. of secs. 11, 12, 13 and 14.
Land, level adobe soil, stony surface.
Scattering greasewood brush; palo verde and ironwood along washes.
Scattering giant cactus.
-
- N. $0^{\circ}01'$ W., on a true line, bet. secs. 11 and 12.
Over rough and broken surface, bare rock.
- 34.83 Wash, 15 lks. wide, 6 ft. deep, course SE.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in

Chains.

the ground for $\frac{1}{4}$ sec.cor., with brass cap, marked,
 $\frac{1}{4}$ S 11 on W-half;
 S 12 on E-half; and
 1913 on S-half; pits impracticable.
 Raise a mound of stone 3 ft. base, 2 ft.high, west of
 cor.
 80.00 Set an iron post 3 ft.long, 2 ins. in diam., 24 ins, in
 the ground for cor.of secs. 1,2,11 and 12, with brass
 cap, marked,
 T 4 S S 2 in NW.,
 R 15 W S 1 in NE.,
 S 12 in SE., and
 S 11 in SW. quadrants;
 1913 on S-half;
 pits impracticable.
 Raise a mound of stone 4 ft.base, 2 ft.high, west of cor.
 Land, rough and broken bare rock. No soil.
 Scattering palo verde and giant cactus.

40.00 East, on a random line, bet. secs.1 and 12.
 Set temp. $\frac{1}{4}$ sec.cor.
 80.12 Intersect east bdy.of Tp., 5 lks.north of cor.of secs.
 1,6,7 and 12, established by me, as described in
 Book "B."
 Thence I run,
 N.89°58'W., on a true line, bet. secs. 1 and 12.
 Over nearly level land, stony surface.
 21.72 Wash, 20 lks.wide, 5 ft.deep, course S.20°W.
 29.22 Wash, 15 lks.wide, 4 ft. deep, course S.10° W.
 35.12 Wash, 10 lks.wide, 2 ft. deep, course S.10° E.
 40.06 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 N-half; and
 S 12, 1913 on S-half; pits impracticable.
 Raise a mound of stone, $3\frac{1}{2}$ ft. base, 2 ft.high,N.of cor.
 66.22 Wash, 15 lks.wide. 4 ft.deep, course S.40° E.
 80.12 Cor.of secs.1,2,11 and 12.
 Land, nearly level, stony surface. Very little soil.
 Scattering palo verde and ironwood. Scattering giant
 cactus.
 Aug.12, 1913.

August 18,1913:
 At 11h.0m. a.m.,1.m.t., I set off 33°06'N.on lat.arc;and
 13°08'N. on decl.arc; and determine a meridian with
 the solar at the cor.of secs.1,2,11 and 12.
 A flag at the cor.of secs. 1,2,35 and 36 on the north bdy.
 of the Tp., in plain sight.
 Therefore, I run,
 N.0°08'E., on a true line, bet. secs.1 and 2.
 Over nearly level land; stony surface.
 15.30 Old wagonroad brs.W° and 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 2 on W-half;
 S 1 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.
 44.00 Wash, 10 lks.wide, 2 ft. deep, course S.70° E.
 54.70 Wash, 20 lks.wide, 3 ft. deep, course SE.
 Thence along rocky, west slope.
 80.00 Cor. of secs. 1,2,35 and 36 on north bdy.of Tp.,established
 by me, as described in Book "B."

Chains.

Land, nearly level, 54.70 chs.
Stony west slope, 25.30 chs.
Very little soil, malpais gravel.
Scattering palo verde and a few giant cactus.
August 18, 1913.

August 9, 1913.
At 8h.0m. a.m., l.m.t., I set off $33^{\circ} 01\frac{1}{2}'$ N. on lat. arc;
and $15^{\circ} 56'$ N. on decl. arc; and determine a meridian with
a solar at the cor. of secs. 2, 3, 34 and 35, on south
bdy. of Tp. established by W.K. Kierulff, U.S. Transit-
man, as described in Book "A."

Thence I run,
N. $0^{\circ} 01'$ W., on a true line, bet. secs. 34 and 35.
Over level land.

- 10.60 Wash, 15 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 34 on W. half;
S 35 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 cor.
 - 47.10 Wash, 20 lks. wide, 2 ft. deep, course S. 20° W.
 - 50.00 Wash, 15 lks. wide, 2 ft. deep, course S. 20° W.
 - 67.30 Wash, 20 lks. wide, 2 ft. deep, course S. 15° W.
 - 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in
the ground, for cor. of secs. 26, 27, 34 and 35, with
brass cap, marked,
T 4 S S 27 in NW.,
R 15 W S 26 in NE.,
S 35 in SE., and
S 34 in SW. quadrant;
1913 on S. half; from which,
A palo verde, 6 ins. in diam., brs. S. $50^{\circ} 10'$ E.,
153 lks. dist., marked T 4 S R 15 W S 35 B T.
A palo verde, 6 ins. in diam., brs. S. $51^{\circ} 45'$ W., 148
lks. dist., marked T 4 S R 15 W S 34 B T.
A palo verde, 12 ins. in diam., bears N. $60^{\circ} 30'$
W., 67 lks. dist., marked T 4 S R 15 W S 27 B T.
- No other trees 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.
Land, level; adobe soil, covered with malpais gravel.
Scattering palo verde and ironwood timber.
Greasewood brush, 4 to 6 ft. high.

- 40.00 East, on a random line, bet. secs. 26 and 35.
Set temp. $\frac{1}{4}$ sec. cor.
- 80.01 Intersect N. and S. line, 2 links north of cor. of secs.
25, 26, 35 and 36.
Thence I run,
N. $89^{\circ} 59'$ W., on a true line, bet. secs. 26 and 35.
Over level land, through brush 4 to 5 ft. high.
- 18.41 Wash, 10 lks. wide, 2 ft. deep, course south.
- 36.21 Wash, 15 lks. wide, 2 ft. deep, course S. 30° W.
- 40.005 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 26 on N. half; and
S 35, 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.

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65.50 Wash, 10 lks.wide, course S.70°W.
 70.00 Wash, 20 lks.wide, 2 ft. deep, course S.40°W.
 80.01 Corner of secs.26,27,34 and 35.
 Land,level adobe soil, covered with malpais gravel.
 Scattering pale verde and ironwood along wash.
 Greasewood brush.
 August 9, 1913.

August 11, 1913: At 8h.0m., a.m.,l.m.t.,I set off 33°
 02½'N.on lat.arc; and 15°21'N. on decl.arc; and deter-
 mine a meridian with the solar at the cor.of secs.26,
 27, 34 and 35.

Thence I run,
 N.0°01' W., on a true line, bet. secs.26 and 27.
 Over rough and broken land; almost bare rock.
 14.50 Wash, 15 lks.wide, 3 ft. deep, course S.80° W.
 37.60 Wash, 10 lks.wide, 2 ft. deep, course east.
 40.00 Set an iron post 3 ft.long, 1 in. in diam., 18 ins. in
 the ground, (could not set deeper, solid rock) for ¼
 sec.cor., with brass cap, marked,
 ¼ S 27 on W.half;
 S 26 on E.half; and
 1913 on S.half; pits impracticable.
 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
 corner.

54.30 A drain 15 lks.wide, 2 ft. deep, course S.70°E.
 76.90 A drain,10 lks.wide, 2 ft. deep, course S.80° E.
 80.00 Set an iron post 3 ft.long, 2 ins. in diam., 18 ins. in
 the ground, for cor.of secs. 22,23,26 and 27, with
 brass cap, marked,
 T 4 S S 22 in NW.,
 R 15 W S 23 in NE.,
 S 26 in SE., and
 S 27 in SW. quadrants;
 1913 on S.half;
 raise a mound of stone 2 ft.base, 1 ft. high,around
 post, from which,
 A pale verde, 5 ins. in diam., brs.S.83°45'E.
 112 lks.dist., marked T 4 S R 15 W S 26 B T.
 No other trees in limits; pits impracticable.
 Raise a mound of stone 4 ft.base, 2½ ft. high, west of
 cor.
 Land,broken stony surface; almost bare rock; scattering
 pale verde timber and giant cactus.

40.00 East, on a random line, bet. secs.23 and 26.
 Set temp.¼ sec.cor.
 79.90 Intersect cor.of secs.23,24,25 and 26.
 Thence I run,
 West, on a true line, bet. secs.23 and 26.
 Over broken surface, stony.
 33.12 Wash, 15 lks.wide, 5 ft. deep, course S.15° W.
 39.95 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 23 on N.half; and
 S 26, 1913 on S.half; pits impracticable.
 Raise a mound of stone 2 ft.base, 1½ ft. high around post.
 Raise a mound of stone 3 ft.base, 2 ft.high, N.of cor.
 43.15 Ravine, 15 lks.wide, 5 ft. deep, course S.20°E.
 48.15 Ravine, 20 lks.wide, 5 ft.deep, course S.20°E.
 71.40 Ravine, 20 links wide 5 ft.deep, course S.25°E.
 75.00 Ravine, 20 lks.wide, 5 ft.deep, course S.20°E.
 79.90 Cor.of secs. 22,23,26 and 27.
 Land, rough and broken; almost bare rock, covered with

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8. Subdivision of Township 4 South, Range 15 West.

Chains.

loose volcanic rock.

August 11, 1913.

- August 14, 1913:
N. $0^{\circ}01'W.$, on a true line, bet. secs. 22 and 23.
Over broken land.
- 2.90 Wash, 15 lks. wide, 4 ft. deep, course S. $15^{\circ}E.$
10.00 Ascend SW. slope, over boulders.
31.00 Descend NE. slope, over boulders.
36.14 Wash, 100 lks. wide, 3 ft. deep, course SE. Foot of 200 ft. descent.
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 around post, for $\frac{1}{4}$ sec. cor., with brass cap, marked,
 $\frac{1}{4}$ S 22 in W. half;
S 23 in E. half, and
1913 on S. half; pits impracticable.
Raise a mound of stone 3 ft. base, 2 ft. high, W. of cor.
43.71 Ascend steep SW. slope, over boulders.
51.97 Descend steep NW. slope, over boulders.
62.29 Ravine, 10 lks. wide, 5 ft. deep, course west. Foot of 300 ft. descent.
80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, with brass cap, marked,
T 4 S S 15 on NW.,
R 15 W S 14 in NE.,
S 23 in SE., and
S 22 in SW. quadrants;
1913 on S. half;
pits impracticable.
Raise a mound of stone 4 ft. base, 2 ft. high, west of corner.
Land, mountainous and broken.
No soil. Surface covered with loose boulders.
Scattering giant cactus. Scattering cholla cactus.
Aug. 14: At the above cor., I set off $14^{\circ}23'N.$ on the decl. arc; and at 12h. 4m. l.m.t., observed the sun on the meridian; the resulting latitude is $33^{\circ}04\frac{1}{2}'N.$
-
- 40.00 East, on a random line, bet. secs. 14 and 23.
Set temp. $\frac{1}{4}$ sec. cor.
79.87 Intersect N. and S. line, 4 links north of corner of secs. 13, 14, 23 and 24.
Thence I run,
N. $89^{\circ}58'W.$, on a true line, bet. secs. 14 and 23.
Over level land.
- 7.40 Wagon road brs. NW. and SE.
10.00 Wash, 12 lks. wide, course south.
18.22 Wash, 20 links wide, 2 ft. deep, course SE.
22.97 Wash, 10 lks. wide, 2 ft. deep, course S. $60^{\circ}E.$
30.00 Wash, 15 lks. wide, 2 ft. deep, course S. $80^{\circ}E.$
39.935 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 14 on N. half; and
S 23, 1913 on S. half; from which,
A palo verde, 4 ins. in diam., bears N. $71^{\circ}45'W.$,
69 lks. dist., marked $\frac{1}{4}$ S 14 B T.
A palo verde, 6 ins. in diam., brs. S. $67^{\circ}45'W.$,
159 lks. dist., marked $\frac{1}{4}$ S 23 B T.
- 41.80 Ascend east slope, over boulders.
46.50 Descend west slope.
54.26 Ascend SE. slope.
59.00 Descend SW. slope.

Chains.

63.92 Ravine, 10 lks.wide, 5 ft. deep, course SE.
 70.00 Ascend east slope.
 75.00 Descend west slope.
 79.87 Corner of secs.14,15,22 and 23.
 Rough and broken, over boulders, 38.00 chs.
 Land, nearly level, 41.87 chs. Greasewood brush on level.
 Palo verde and ironwood along washes.
 Scattering giant cactus.

August 14, 1913.

August 16, 1913:

N 0°01'W., on a true line, bet. secs.14 and 15.
 Over rough and broken surface.
 5.00 Ascend SW. slope.
 15.00 Change to west slope.
 30.50 Change to NW. slope, 300 ft. ascent.
 33.50 Foot of hill, brs.N.20°E. and S.20°W., 300 ft. descent.
 36.80 A miner's cabin brs.west about 4.00 chs.
 38.00 Wash, 15 lks.wide, 5 ft. deep, course N.70°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 15 on W.half;
 S 14 on E.half; and
 1913 on S.half; from which,
 An ironwood, 16 ins. in diam., brs.S.89°W., 262
 lks.dist., marked $\frac{1}{4}$ S 15 B T.
 A palo verde, 8 ins. in diam., brs.S.30°30'E.,
 244 lks.dist., marked $\frac{1}{4}$ S 14 B T.
 67.90 Wagon road brs.NW. and SE.
 80.00 Set an iron post 3 ft.long, 2 ins. in diam., 24 ins. in
 the ground, for cor.of secs. 10,11,14 and 15, with
 brass cap, marked,
 T 4 S S 10 in NW.,
 R 15 W S 11 in NE.,
 S 14 in SE., and
 S 15 in SW. quadrants;
 1913 on S.half; from which,
 An ironwood, 6 ins. in diam., brs.N.25°30'E., 88
 lks.dist., marked T 4 S R 15 W S 11 BT.
 An ironwood, 6 ins. in diam., brs.S.89°30'E., 61
 lks.dist., marked T 4 S R 15 W S 14 B T.
 An ironwood, 14 ins. in diam., brs. S.5°30'W.,
 15 lks.dist., marked T 4 S R 15 W S 15 B T.
 No other trees in limit. Pits impracticable.
 Raise arround of stone 4 ft.base, 2 ft.high, west of cor-
 ner.
 Land, mountainous and stony, 38.00 chs.
 Level and stony, 42.00 chs.
 Greasewood brush, scattering palo verde and ironwood.

40.00 East, on a random line, bet. secs.11 and 14.
 Set temp. $\frac{1}{4}$ sec.cor.
 79.94 Intersect N.and S. line, 4 lks.north of the cor. of secs.
 11,12,13 and 14.
 Thence I run,
 N°89°58'W., on a true line, bet. secs.11 and 14.
 Over rolling land, scattering brush.
 6.00 Wash, 15 lks.wide, 5 ft.deep, course south.
 39.97 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec.cor., with brass cap, marked,
 $\frac{1}{4}$ S 11 on N.half; and
 S 14, 1913 on S.half; from which,
 An ironwood, 6 ins. in diam., brs.S.17°15'W.,
 59 lks.dist., marked $\frac{1}{4}$ S 14 B T.
 An ironwood, 16 ins. in diam., brs.N.9°W., 150

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10. Subdivision of Township 4 South, Range 15 West.

Chains.

47.80 lks.dist., marked $\frac{1}{4}$ S 11 B T.
 Wash, 15 lks.wide, course south.
 Thence over broken surface, and nearly bare rock and large boulders.

79.94 Cor.of secs.10,11,14 and 15.
 Rolling land, 47.80 chs.
 Rough and broken land, 32.20 chs.
 Ironwood along washes; giant cactus.
 August 16, 1913.

August 19, 1913:
 N.0°01'W., on a true line, bet. secs.10 and 11.
 Over level land, through greasewood brush, 4 to 6 ft. high.

11.00 Wash,10 lks.wide, 2 ft.deep, course S.20°W.
 25.60 Wash, 10 lks.wide, 2 ft. deep, course S.30°W.
 37.40 Wash, 25 lks.wide, 2 ft. deep, 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 10 on W-half;
 S 11 on E-half; and
 1913 on S-half; from which,
 A palo verde, 12 ins. in diam., brs.S.4°30'W.,
 213 lks.dist., marked $\frac{1}{4}$ S 10 B T.
 An ironwood, 14 ins. in diam., brs.S°59'E.,195
 lks.dist., marked $\frac{1}{4}$ S 11 BT.

74.40 Wash, 10 lks.wide, 3 ft. deep, course S.40°E.
 80.00 Set an iron post 3 ft.long, 2 ins. in diam., 24 ins. in the ground, for cor.of secs. 2,3,10 and 11, with brass cap, marked
 T 4 S S 3 in NW.,
 R 15 W S 2 in NE.,
 S 11 in SE., and
 S 10 in SW. quadrants;
 1913 on S-half; from which,
 An ironwood, 10 ins. in diam., brs.N.54°10'W.,
 254 lks.dist., marked T 4 S R 15 W S 3 B T.
 No other tree 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, west of corner.
 Land, nearly level.
 Adobe soil.. Malpais gravel. Ironwood and palo verde along washes.

40.00 East, on a random line, bet. secs. 2 and 11.
 Set temp. $\frac{1}{2}$ sec.cor.
 79.90 Intersect the cor.of secs.1,2,11 and 12.
 Thence I run,
 West, on a true line, bet. secs.2 and 11.
 Over gradual SW. slope, through scattering brush.

24.80 Wash, 15 lks.wide, 4 ft. deep, course N.30°W.
 27.50 Wash, 20 lks.wide, 5 ft. deep, course N.30°W.
 29.70 Wash, 25 lks.wide, 5 ft. deep, course N.30°W.
 39.95 Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., with brass cap, marked,
 $\frac{1}{4}$ S 2 on N-half;
 S 11, 1913 on S-half;
 dig pits 18x18x12 ins. E and W of cor., 3 ft. dist., and raise a mound of earth and stone, 3 ft. base, 1 $\frac{1}{2}$ ft.high, north of cor.

79.90 Corner of secs.2,3, 10 and 11.
 Land, gently rolling and level adobe soil, covered with loose malpais stone. Greasewood brush.
 Scattering palo verde and ironwood. Scattering giant cactus. Chollas.

Chains.

A flag at the cor. of secs. 2, 3, 34 and 35, on the north bdy. of the Tp., is in plain sight, from cor. of secs. 2, 3, 10 and 11.

Thence I run,
 N. 0° 01' E., on a true line, bet. secs. 2 and 3.
 Over gently rolling land.

6.80 Wash, 20 lks. wide, 3 ft. deep, course S. 20° W.
 30.83 Wash, 15 lks. wide, 2 ft. deep, course S. 70° W.
 32.00 Wash, 20 lks. wide, 3 ft. deep, course S. 70° W.
 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 3 on W. half;
 S 2 on E. half; and
 1913 on S. half; pits impracticable.

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

50.00 Wash, 10 lks. wide, 4 ft. deep, course S. 70° W.
 Enter volcanic boulders.

60.00 Leave level land, thence along west slope of low ridge, over large boulders.

79.99 Cor. of secs. 2, 3, 34 and 35, on the north bdy. of the Tp., established by me as described in Book "B."
 Land, level adobe soil, covered with loose stone, 60.00 chs.
 Volcanic boulders, 19.99 chs.
 Scattering greasewood brush, palo verde, ironwood timber and giant cactus.

August 19, 1913.

August 13, 1913: At 8h. 0m. a.m., l.m.t., I set off 33° 01 $\frac{1}{2}$ ' N. on lat. arc; and 14° 45' N. on decl. arc, and determine a meridian with the solar at the cor. of secs. 3, 4, 33 and 34 on the south bdy. of the Tp., established by W. K. Kierulff, U.S. Transitman, as described in Book "A."

Thence I run,
 N. 0° 02' W., on a true line, bet. secs. 33 and 34.
 Over level land, through scattering greasewood brush.

14.00 Wash, 10 lks. wide, 2 ft. deep, course S. 20° E.
 20.00 Wash, 15 lks. wide, 3 ft. deep, course S. 15° E.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in the ground, (could not set deeper, solid rock), for $\frac{1}{4}$ sec. cor., with brass cap, marked,
 $\frac{1}{4}$ S 33 on W. half;
 S 34 on E. half; and
 1913 on S. half;
 raise a mound of stone 3 ft. base, 1 $\frac{1}{2}$ ft. high around post; from which,
 A palo verde, 5 ins. in diam., brs. S. 28° 35' E.,
 143 lks. dist., marked $\frac{1}{4}$ S 34 B T.
 A palo verde, 5 ins. in diam., brs. N. 84° 30' W.,
 86 lks. dist., marked $\frac{1}{4}$ S 33 B T.

Base of mountain bears east about 12.00 chs. from the $\frac{1}{4}$ sec. cor.

65.00 Point of mountain brs. S. 15° E. and N. 40° E.
 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 18 ins. in the ground, for cor. of secs. 27, 28, 33 and 34, with brass cap, marked,
 T 4 S S 28 in NW.,
 R 15 W S 27 in NE.,
 S 34 in SE., and
 S 33 in SW. quadrants;
 1913 on S. half; from which,
 A palo verde, 6 ins. in diam., brs. N. 55° E., 154 lks. dist., marked T 4 S R 15 W S 27 B T.
 A palo verde, 12 ins. in diam., brs. S. 56° W., 24 lks. dist., marked T 4 S R 15 W S 33 B T.
 A palo verde, 5 ins. in diam., brs. N. 56° W., 124

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12. Subdivision of Township 4 South, Range 15 West.

Chains.

	<p>lks. dist., marked T 4 S R 15 W S 28 BT. No other tree in limits; pits impracticable. 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 corner. Land, nearly level adobe soil, covered with loose stone. Palo verde and ironwood along washes. Greasewood brush.</p>
40.00	East, on a random line, bet. secs. 27 and 34. Set temp. ¼ sec. cor.
79.97	Intersect the cor. of secs. 26, 27, 34 and 35. Thence I run, West, on a true line, bet. secs. 27 and 34. Over rough and broken surface.
5.00	Ascend steep east slope over boulders.
10.00	Top of low ridge, brs. N. and S.; descend.
17.97	Foot of low ridge, brs. N. and S.
18.97	Wash, 15 lks. wide, 2 ft. deep, course south.
27.97	Wash, 10 lks. wide, 2 ft. deep, course south.
35.00	Wash, 10 lks. wide, 2 ft. deep, course S-10°E.
39.985	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 27 on N. half; and ¼ S 34, 1913 on S. half. Pits impracticable.
42.00	Raise a mound of stone, 3 ft. base, 2 ft. high, north of cor.
42.00	Ascend steep east slope over boulders.
54.97	Top of ridge brs. N. and S., 500 ft. ascent; descend steep SW. slope.
75.00	Foot of mountain, brs. N. and S.
79.97	Cor. of secs. 27, 28, 33 and 34. Land, mountainous, 33.00 chs. Rough and broken stony surface, 46.97 chs. Scattering timber along washes. Giant cactus.
	<p>N. 0° 02' W., on a true line, bet. secs. 27 and 28. Over level land, through greasewood brush.</p>
.50	Wash, 15 lks. wide, 4 ft. deep, course N. 85° W.
17.30	Wash, 15 lks. wide, 5 ft. deep, course S. 40° W.
28.90	Wash, 15 lks. wide, 5 ft. deep, course S. 50° W.
37.00	Ascend SW. slope, of mountain, over volcanic boulders.
40.00	Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in the ground (could not set deeper, solid rock), for ¼ sec. cor., with brass cap, marked, ¼ S 28 on W. half; ¼ S 27 on E. half; and 1913 on S. half; pits impracticable.
	Raise a mound of stone 2 ft. base, 1½ ft. high, around post.
	Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
54.30	Top of ridge, brs. E. and W. Descend NW. slope.
62.65	Ascend SW. slope.
67.65	Descend NW. slope.
76.30	Wash, 20 lks. wide, 5 ft. deep, course SW. Foot 300 ft., descent.
80.00	Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 21, 22, 27 and 28, with brass cap, marked, T 4 S S 21 in NW., R 15 W S 22 in NE., S 27 in SE., and S 28 in SW. quadrants; 1913 on S. half; from which, An ironwood, 6 ins. in diam., brs. N. 80° E., 117 lks. dist., marked T 4 S R 15 W S 22 B T.

Subdivision of Township 4 South, Range 15 West. 13.

Chains.

An ironwood, 14 ins. in diam., brs. S. 56°30'E., 90
lks. dist., marked T 4 S R 15 W S 27 B T.
An ironwood, 12 ins. in diam., brs. S. 44°15'W., 98
lks. dist., marked T 4 S R 15 W S 28 B T.
A palo verde, 6 ins. in diam., brs. N. 75°W., 90
lks. dist., marked T 4 S R 15 W S 21 B T.
Land, level adobe soil, covered with loose stone, 40.70
chains.
Mountainous, over volcanic boulders, 39.30 chs.
Greasewood brush on level.
Palo verde and ironwood along washes. Scattering giant
cactus.

August 13, 1913.

August 14, 1913: At 9h.0m. a.m., l.mt., I set off 33°
03½'N. on lat. arc; and 14°26'N. on decl. arc; and deter-
mine a meridian with the solar at the cor. of secs. 21,
22, 27 and 28.

40.00
79.86

Thence I run,
East, on a random line, bet. secs. 22 and 27.
Set temp. ¼ sec. cor.
Intersect N. and S. line, 3 lks. north of the cor. of secs.
22, 23, 26 and 27.

10.00
15.00
39.93

Thence I run,
N. 89°59'W., on a true line, bet. secs. 22 and 27.
Over nearly bare rock; ascend east slope.
Top of ridge, brs. N. and S.
Foot of descent; brs. N. and S.
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 22 on N. half; and
¼ S 27, 1913 on S. half;
dig pits, 18x18x12 ins., E. and W. of cor. 3 ft. dist., and
raise a mound of earth and stone 3½ ft. base, 1½ ft. high,
north of cor.

45.00
54.61
61.00
71.36
75.76
79.86

Wash, 15 lks. wide, 5 ft. deep, course N. 70°W. Ascend
east slope.
Top of ridge, brs. N. and S. Descend about 8.00 chs. north
and 12.00 chs. south of line.
Foot of descent, brs. N. and S.
Wash, 25 lks. wide, 5 ft. deep, course S. 80°W.
Wash, 20 lks. wide, 5 ft. deep, course SW.
Cor. of secs. 21, 22, 27 and 28.
Land, mountainous, 60.86 chs.
Nearly level, 19.00 chs.
No soil on mountains. Black volcanic rock. On level
adobe soil, covered with loose stone.

August 14, 1913.

August 15, 1913:
N. 0°02' W., on a true line, bet. secs. 21 and 22.
Over level land, through brush.

24.10
40.00

Wash, 10 lks. wide, 2 ft. deep, 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 21 on W. half;
¼ S 22 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 stone and earth 3½ ft. base, 1½ ft.
high, west of cor.

45.00
45.10

A hill brs. west about 12.00 chs. Hill is about 20.00
chs. long, bears N. 80° E. and S. 80° W.
Wash, 10 lks. wide, 2 ft. deep, course S. 20°W.

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14. Subdivision of Township 4 South, Range 15 West.

Chains.

- 55.00 A wash, 12 lks.wide, 2 ft. deep, course S.20°W.
 67.60 Wash, 15 lks.wide, 3 ft. deep, course S.20°W.
 78.00 Road, brs. N.60°E. and S.70°W.
 80.00 Set an iron post 3 ft.long, 2 ins. in diam., 24 ins. in the ground, for cor.of secs. 15,16,21 and 22, with brass cap, marked,
 T 4 S S 16 in NW.,
 R 15 W S 15 in NE.,
 S 22 in SE., and
 S 21 in SW. quadrants;
 1913 on S.half; pits impracticable.
 Raise a mound of stone 3 ft.base, 2½ ft. high, W.of cor. Land,nearly level adobe soil, covered with loose stone. Greasewood brush.
 Palo verde and ironwood along washes. Giant cactus.
 August 15, 1913.
-
- August 16, 1913: At 8h. 0m. a.m., 1.m.t., I set off 33° 04½' N. on lat.arc; and 13°50' N. on decl.arc, and determine a meridian with the solar at the cor.of secs. 15,16, 21 and 22.
 Thence I run,
 East, on a random line, bet. secs.15 and 22.
 40.00 Set temp.¼ sec.cor.
 79.88 Intersect cor.of secs. 14,15,22 and 23.
 Thence I run,
 West, on a true line, bet. secs.15 and 22, over rough and broken surface.
 33.00 A ravine, 50 lks.wide, 20 ft. deep, course N.and S.70°W.
 39.94 Set an iron post 3 ft.long, 1 in. in diam., 1 ft.in the ground (solid rock, could not set deeper) for ¼ sec. cor., with brass cap, marked,
 ½ S 15 on N.half, and
 S 22, 1913 on S.half; pits impracticable.
 Raise a mound of stone, 3 ft. base, 1½ ft. high around post; raise a mound of stone 3 ft.base, 2 ft. high, north of cor.
 70.00 Change to level land, bears SW. and SE.
 76.98 Wagon road, brs.NE. and SW.
 79.88 Cor.of secs.15,16,21 and 22.
 Land, rough and broken surface, over large boulders and no soil; 70.00 chs.
 Nearly level adobe soil, covered with loose stone, 9.88 chs. Scattering greasewood brush on level.
 August 16, 1913.
-
- August 19, 1913.
 N.0°02'W., on a true line, bet. secs.15 and 16.
 Over nearly level land, through greasewood brush.
 5.80 Wash, 12 lks.wide, 2 ft. deep, course S.30°W.
 31.60 Road brs. E.and W.
 34.00 Wash, 12 lks.wide, 3 ft. deep, course S.60°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 16 on W.half;
 S 15 on E.half; and
 1913 on S.half; from which,
 An ironwood, 5 ins. in diam., brs.N.39°E., 86 lks.dist., marked ¼ S 15 B T.
 An ironwood, 4 ins. in diam., brs.S.5°30'W., 69 lks.dist., marked ¼ S 16 B T.
 49.80 Wash, 12 lks.wide, 2 ft. deep, course S.40°W.
 50.00 A miner's cabin brs.east about 18.00 chs.
 69.20 Wash, 15 lks.wide, 3 ft. deep, course S.40°W.
 76.20 Wash, 12 lks.wide, 3 ft. deep, course S.40°W.

Subdivision of Township 4 South, Range 15 West. 15.

Chains.

- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 9, 10, 15 and 16, with brass cap, marked,
 T 4 S S 9 in NW.,
 R 15 W S 10 in NE.,
 S 15 in SE., and
 S 16 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 and stone 4 ft. base 2 ft. high, W. of cor.
 Land, nearly level adobe soil, covered with malpais and gravel.
 Ironwood and palo verde timber, along washes.
 Scattering giant cactus.
-
- Aug. 19; At the cor. of secs. 9, 10, 15 and 16, I set off $12^{\circ}48'$ N. on decl. arc; and at 12h. 3m. l.m.t., I observe the sun on the meridian; the resulting lat. is $33^{\circ}05'$ N. -
 Thence I run,
 East, on a random line, bet. secs. 10 and 15.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.08 Intersect N. and S. line, 2 lks. north of cor. of secs. 10, 11, 14 and 15.
 Thence I run,
 N. $89^{\circ}59'$ W., on a true line, bet. secs. 10 and 15.
 Over nearly level land, through brush.
 6.48 Wash, 20 lks. wide, course S. 30° W.
 7.00 Road brs. N. and S.
 17.58 Wash, 20 lks. wide, course S. 30° W.
 40.04 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 10 on N. half; and
 $\frac{1}{4}$ S 15, 1913 on S. half; from which,
 A palo verde, 6 ins. in diam., bears N. $62^{\circ}30'$ E., 98 lks. dist., marked $\frac{1}{4}$ S 10 B T.
 A catsclaw, 6 ins. in diam., brs. S. $30^{\circ}30'$ E., 203 lks. dist., marked $\frac{1}{4}$ S 15 B T?
 44.61 Wash, 10 lks. wide, course S. 40° W.
 64.33 Wash, 15 links wide, course S. 40° W.
 77.28 Wash, 10 lks. wide, course S. 40° W.
 80.08 Cor. of secs. 9, 10, 15 and 16.
 Land, nearly level adobe soil, covered with malpais gravel. Greasewood brush; palo verde and ironwood timber along washes. Giant cactus.

August 19, 1913.

-
- August 20, 1913.
 N. $0^{\circ}02'$ W., on a true line, bet. secs. 9 and 10.
 Over level land, through greasewood brush, 3 to 4 ft. high.
 6.20 Wash, 20 lks. wide, course SW.
 28.30 Wash, 10 lks. wide, course SW.
 34.10 Wash, 10 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 9 on W. half;
 S 10 on E. half; and
 1913 on S. half;
 dig pits 18x18x12 ins., N. and S. of post, 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.
 46.50 Wash, 15 lks. wide, course S. 20° W.
 48.90 Wash, 20 lks. wide, course S. 20° W.

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16. Subdivision of Township 4 South, Range 15 West.

Chains.

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 3, 4, 9 and 10, with brass cap, marked,
 T 4 S S 4 in NW.,
 R 15 W S 3 in NE.,
 S 10 in SE., and
 S 9 in SW. quadrants;
 1913 on S. half; from which,
 A pale verde, 8 ins. in diam., brs. N. 15° E., 98 lks. dist., marked T 4 S R 15 W S 3 B T.
 An ironwood, 6 ins. in diam., bears S. 15° 30' E., 59 lks. dist., marked T 4 S R 15 W S 10 B T.
 An ironwood, 5 ins. in diam., bears S. 18° W., 95 lks. dist., marked T 4 S R 15 W S 9 B T.
 No other trees in limit. Pits impracticable.
 Raise a mound of stone, 3 ft. base, 2½ ft. high, W. of cor.
 Land, level adobe soil; covered with gravel. Greasewood brush. Ironwood and pale verde along washes.
 Aug. 20: At the above sec. cor., I set off 12° 30' N. on decl. arc, and at 12h. 3m. l.m.t., I observe the sun on the meridian; the resulting lat. is 33° 06' N.

40.00 East, on a random line, bet. secs. 3 and 10.
 Set temp. ¼ sec. cor.
 80.08 Intersect N. and S. line, 3 lks. north of cor. of secs. 2, 3, 10 and 11.
 Thence I run,
 N. 89° 59' W., on a true line, bet. secs. 3 and 10.
 Over nearly level land, through greasewood brush.
 3.00 Shallow wash, 15 lks. wide, course S. 50° W.
 33.68 Wash, 15 lks. wide, 2 ft. deep, course S. 50° W.
 40.04 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 3 on N. half; and
 S 10, 1913 on S. half;
 dig pits, 18x18x12 ins., E. and W. of cor., 3 ft. dist., and raise a mound of earth and stone, 3½ ft. base, 1½ ft. high, N. of corner.
 45.20 Wash, 15 lks. wide, course S. 50° W.
 55.70 Wash, 15 lks. wide, course SW.
 60.00 Wash, 15 lks. wide, course SW.
 61.10 Wagon road brs. NW. and SE.
 65.80 Wash, 15 lks. wide, course SW.
 80.08 Cor. of secs. 3, 4, 9 and 10.
 Land, level adobe soil; malpais gravel; greasewood brush. Scattering pale verde and ironwood.

40.00 N. 0° 02' W. on a random line, bet. secs. 3 and 4.
 Set a temp. ¼ sec. cor.
 80.07 Intersect N. bdy. of Tp., 10 links east of cor. of secs. 3, 4, 33 and 34, established by me, as described in Book "B"
 Thence I run,
 S. 0° 06' E., on a true line, bet. secs. 3 and 4.
 Over level land, through greasewood brush.
 5.88 Wash, 10 lks. wide, course S. 70° W.
 25.00 Wash, 15 lks. wide, course S. 60° W.
 30.70 Wash, 20 lks. wide, course S. 70° W.
 40.07 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 4 on W. half;
 S 3 on E. half; and
 1913 on S. half; from which,
 A pale verde, 12 ins. in diam., bears S. 22° 30' E., 144 lks. dist., marked ¼ S 3 B T.
 An ironwood, 6 ins. in diam., bears S. 55° 20' W.,

Subdivision of Township 4 South, Range 15 West. 17.

Chains.

157 lks. dist., marked $\frac{1}{4}$ S 4 B. T.
 Raise a mound of stone 3 ft. base, 1 $\frac{1}{2}$ ft. high around post.
 (Could not set post deeper for solid rock).
 47.00 Wash, 20 lks. wide, course S. 70° W.
 54.67 Road brs. NW. and SE.
 60.88 Wash, 15 lks. wide, 3 ft. deep, course S. 60° W.
 80.07 Cor. of secs. 3, 4, 9 and 10.
 Land, nearly level. Adobe soil; malpais gravel. Greasewood brush.
 Heavy timber, ironwood and palo verde along washes.
 August 20, 1913.

 August 15, 1913:
 At 8h. 0m. a.m., l.m.t., I set off 33° 01 $\frac{1}{2}$ ' N. on lat. arc; and
 14° 08' N. on decl. arc, and determine a meridian with
 the solar at the cor. of secs. 4, 5, 32 and 33 on the S.
 bdy. of the Tp., established by W. K. Kierulff, U.S.
 Transitman, as described in Book "A."
 Thence I run,
 N. 0° 02' W., on a true line, bet. secs. 32 and 33.
 Over level land, through greasewood brush, 3 to 4 ft. high.
 20.00 Phoenix and Yuma auto road, brs. N. 50° W. and S. 50° 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 32 on W. half;
 S 33 on E. half; and
 1913 on S. half; from which,
 A palo verde, 14 ins. in diam., brs. N. 27° 10' E.,
 41 lks. dist., marked $\frac{1}{4}$ S 33 B. T.
 No other trees in limits. 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 cor.
 41.10 Road brs. NW and SE.
 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in
 the ground for cor. of secs. 28, 29, 32 and 33, with brass
 cap, marked;
 T 4 S S 29 in NW.,
 R 15 W S 28 in NE.,
 S 33 in SE., and
 S 32 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 and stone, 4 ft. base, 2 ft.
 high, west of cor.
 Land, level. Adobe soil.
 Scattering palo verde and ironwood.
 Greasewood brush.

 East, on a random line, bet. secs. 28 and 33.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.10 Intersect the cor. of secs. 27, 28, 33 and 34.
 Thence I run,
 West, on a true line, bet. secs. 28 and 33.
 Over level land, through greasewood brush.
 1.00 Wash, 15 lks. wide, course S. 80° W.
 24.46 Wagon road brs. N. and S.
 31.80 Wash, 10 lks. wide, course SW.
 40.05 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked,
 $\frac{1}{4}$ S 28 on N. half; and
 S 33, 1913 on S. half; pits impracticable.
 Raise a mound of stone, 3 ft. base, 2 ft. high, north of
 cor.
 51.20 Wash, 12 lks. wide, course SW.
 80.10 Corner of secs. 28, 29, 32 and 33.
 Land, level, adobe soil. Malpais gravel. Greasewood

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18. Subdivision of Township 4 South, Range 15 West.

Chains.

brush. Palo verde and ironwood timber. Giant cactus.

16.40 N. $0^{\circ} 02' W.$, on a true line, bet. secs. 28 and 29.
 40.00 Over level land, through greasewood brush, 3 ft. high.
 Wash, 10 lks. wide, course S. $40^{\circ} W.$
 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked,
 $\frac{1}{4}$ S 29 on W. half;
 S 28 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 $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W.
 of cor.
 76.00 Wash, 12 lks. wide, course S. $40^{\circ} W.$
 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in
 the ground, for cor. of secs. 20, 21, 28 and 29, with
 brass cap, marked,
 T 4 S S 20 in NW.,
 R 15 W S 21 in NE.,
 S 28 in SE., and
 S 29 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.
 Land, level, adobe soil. Greasewood brush; scattering
 palo verde and giant cactus.
 Aug. 15: At above cor., I set off $14^{\circ} 05' N.$ on decl. arc;
 and at 12h. 3m. l.m.t., I observe the sun on the meri-
 dian. The resulting latitude is $33^{\circ} 04' N.$

40.00 East, on a random line, bet. secs. 21 and 28.
 80.05 Set temp. $\frac{1}{4}$ sec. cor.
 Intersect the cor. of secs. 21, 22, 27 and 28.
 Thence I run,
 West, on a true line, bet. secs. 21 and 28, over nearly
 level land, through greasewood brush.
 .85 Wash, 10 lks. wide, course south.
 23.45 Wash, 10 lks. wide, course S. $10^{\circ} W.$
 32.40 Wash, 15 lks. wide, course S. $15^{\circ} W.$
 39.25 Wash, 15 lks. wide, course south.
 40.025 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 21 on N. half; and
 S 28, 1913 on S. half; from which,
 An ironwood, 8 ins. in diam., bears N. $35^{\circ} 15' E.$,
 115 lks. dist., marked $\frac{1}{4}$ S 21 B T.
 An ironwood, 12 ins. in diam., bears S. $86^{\circ} 10' E.$,
 35 lks. dist., marked $\frac{1}{4}$ S 28 B T.
 49.00 Road brs. N. $10^{\circ} E.$ and south.
 51.50 Wash, 15 lks. wide, course S. $10^{\circ} W.$
 55.00 Wash, 10 lks. wide, course S. $10^{\circ} W.$
 75.50 Wash, 12 lks. wide, course S. $40^{\circ} W.$
 80.05 Cor. of secs. 20, 21, 28 and 29.
 Land, level adobe soil, greasewood brush.
 Palo verde and ironwood along washes; giant cactus.
 August 15, 1913.

August 19, 1913:
 At 9h. 0m. a. m., l.m.t. I set off $33^{\circ} 03\frac{1}{2}' N.$ on lat.
 arc; and at $12^{\circ} 51' N.$ on decl. arc, and determine a
 meridian with the solar at the cor. of secs. 20, 21,
 28 and 29.

Subdivision of Township 4 South, Range 15 West. 19.

Chains.

Thence I run,
 N.0°02'W., on a true line, bet. secs.20 and 21.
 Over level land, through brush.

16.40 Wash, 10 lks.wide, course S.30°W.
 22.20 Wash, 12 lks.wide, course S.30°W.
 33.80 Wash, 10 lks.wide, course S.30°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 20 on W.half;
 S 21 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 cor.

56.70 Wash, 12 lks.wide, course S.30°W.
 80.00 Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins. in
 the ground, for cor.of secs.16,17,20 and 21, with
 brass cap, marked,
 T 4 S S 17 in NW.
 R 15 W S 16 in NE.,
 S 21 in SE., and
 S 20 in SW. quadrants;
 1931 on S.half; from which,
 An ironwood, 5 ins. in diam., brs. N.8°15'E.,
 15 lks.dist., marked T 4 S R 15 W S 16 B T.
 An ironwood, 8 ins. in diam., brs. N.27°45'W.,
 134 lks.dist., marked T 4 S R 15 W S 17 B T.
 No other trees 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 cor.
 Land, level, adobe soil, covered with malpais gravel.
 Greasewood brush; ironwood and palo verde along washes.
 Scattering giant cactus.

40.00 East, on a random line, bet. secs.16 and 21.
 Set temp. $\frac{1}{4}$ sec.cor.
 80.07 Intersect N. and S. line, 2 lks.north of the cor.of secs.
 15,16,21 and 22.
 Thence I run,
 N.89°59'W., on a true line, bet. secs.16 and 21.
 Over level land.

14.42 Wash, 12 lks.wide, 2 ft. deep, course S.30° W.
 38.27 Wash, 15 lks.wide, 2 ft.deep, course S.30°W.
 40.035 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 16 on N.half; and
 S 21, 1913 on S.half;
 raise a mound of stone 3 ft.base, $1\frac{1}{2}$ ft. high around
 post; from which,
 A palo verde, 14 ins. in diam., brs.S.56°E., 51
 lks.dist., marked $\frac{1}{4}$ S 21 B T.
 An ironwood, 9 ins. in diam., bears N.88°E., 123
 lks.dist., marked $\frac{1}{4}$ S 16 B T.

46.97 Wash, 15 lks.wide, course S.30°W.
 66.57 Wash, 15 lks.wide, course S.30°W.
 80.07 Cor.of secs.16,17,20 and 21.
 Land, level, adobe soil, covered with gravel and loose
 stone. Greasewood brush. Palo verde and ironwood.
 August 19, 1913.

August 20, 1913:
 At 9h. Om. a.m., l.m.t., I set off $33^{\circ}04\frac{1}{2}'$ N. on lat.
 arc; and $12^{\circ}33'$ N on decl. arc, and determine a meri-
 dian with the solar at the cor.of secs. 16,17,20 and
 21.

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20. Subdivision of Township 4 South, Range 15 West.
Chains.

Thence I run,
N.0°02' W., on a true line, bet. secs.16 and 17.
Over level land, through greasewood brush, 3 ft. high.
1.90 Road brs.N.80°E. and S.80°W.
28.40 Wash, 12 lks.wide, course S.30°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 17 on W.half;
S 16 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 $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft. high,
W.of cor.
40.20 Wash, 10 lks.wide, course S.40° W.
80.00 Set an iron post 3 ft.long, 2 ins. in diam., 24 ins. in
the ground, for cor.of secs. 8,9,16 and 17, with
brass cap, marked,
T 4 S S 8 in NW.,
R 15 W S 9 in NE.,
S 16 in SE., and
S 17 in SW. quadrants;
1913 on S.half; from which,
An ironwood, 6 ins. in diam., brs.S.76° W', 176
lks.dist., marked T 4 S R 15 W S 17 B T.
An ironwood, 5 ins. in diam., brs.N.41° 30' W.,
194 lks.dist., marked T 4 S R 15 W S 8 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 and stone
4 ft.base, 2 ft.high, west of cor.
Land, level. Adobe soil; gravel on top.
Ironwood and palo verde and greasewood brush.

East, on a random line, bet. secs.9 and 16.
40.00 Set temp. $\frac{1}{4}$ sec.cor.
80.00 Intersect N.and S. line, 3 lks.north of cor.of secs.9,
10,15 and 16.
Thence I run,
N.89°59' W., on a true line, bet. secs.9 and 16.
Over level land, through brush 4 ft.high.
5.50 Wash, 20 lks.wide; course SW.
26.24 Wash, 15 lks.wide, course S.40°W.
35.20 Wash, 10 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 9 on N.half; and
S 16, 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,
north of cor.
46.09 Wash, 8 lks.wide, course S. 50°W.
68.10 Wash, 10 lks.wide, course S.40°W.
73.10 Wash, 8 lks.wide, course S.40°W.
80.00 Cor.of secs.8,9,16 and 17.
Land, level adobe soil, covered with malpais gravel.
Greasewood brush.

August 20, 1913.

August 21, 1913: At 8h. 0m. a.m., l.m.t., I set off 33°
05' N. on lat.arc. and 12°12' N. on decl.arc, and deter-
mine a meridian with the solar at the cor.of secs.
8,9,16 and 17.
Thence I run,
N.0°02' W., on a true line, bet. secs.8 and 9.
Over level land, through heavy brush; scattering palo
verde timber.

Chains

13.50 Wash, 20 lks.wide, course S.70°W.
 24.10 Wash, 10 lks.wide, course S.70°W.
 30.14 Wash, 12 lks.wide, course S.70°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 8 on W.half; S 9 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 cor.
 47.40 Wash, 10 lks.wide, course S.50°W.
 57.70 Wash, 10 lks.wide, course S.50°W.
 80.00 Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins. in the ground, for cor.of secs.4,5,8 and 9, with brass cap, marked,
 T 4 S S 5 in NW.,
 R 15 W S 4 in NE.,
 S 9 in SE., and
 S 8 in SW. quadrants;
 .. 1913 on S.half; from which,
 An ironwood. 6 ins. in diam., brs.N.18°30'E.,
 " 112 lks.dist., marked T 4 S R 15 W S 4 B T.
 No other trees in limits. Pits impracticable.
 Raise a mound of stone, $3\frac{1}{2}$ ft.base, $2\frac{1}{2}$ ft.high,W.of cor.
 Land,level adobe soil, covered with loose stone 4 to 6 ins. in diam.,
 Greasewood brush. Palo verde and ironwood along washes.
 Giant cactus.

40.00 East, on a random line, bet. secs. 4 and 9.
 79.96 Set temp. $\frac{1}{4}$ sec.cor.
 Intersect N and S. line, 5 lks.N.of cor.of secs.3,4,9 & 10.
 Thence I run,N.89°58'W.on a true line,bet.secs.4 & 9.
 Over level land, through greasewood brush.
 26.66 Road brs.N.and S.
 27.06 Wash, 12 lks.wide, course S.60°W.
 35.00 Wash, 20 lks.wide, course S.60°W.
 39.98 Set an iron post 3 ft.long, 1 in. indiam., 26 ins. in the ground for $\frac{1}{4}$ sec.cor., with brass cap, marked, $\frac{1}{4}$ S 4 on N.half,and S 9. 1913 on S.half; dig pits 18x18x12 ins.E.& W.of cor.3 ft.dist.& raise md.of earth $3\frac{1}{2}$ ft.base $1\frac{1}{2}$ ft.high,N.of cor.
 42.30 Wash, 12 lks.wide, course S.60° W.
 56.06 Wash, 15 lks.wide. course S.60°W.
 65.86 Wash, 10 lks.wide, course S.60°W.
 79.96 Cor.of secs.4,5,8 and 9.
 Land, nearly level.
 Adobe soil, covered with loose stone.
 Greasewood brush 3 to 4 ft.high.
 Palo verde and ironwood along washes. Scattering giant cactus.

40.00 N.0°02'W., on a random line, bet. secs.4 and 5.
 80.04 Set temp. $\frac{1}{4}$ sec.cor.
 Intersect N.bdy.of Tp.6 lks.W.of the cor.of secs.4,5, 32 and 33, established by me, as described in Book "B."
 Thence I run,
 S.0°01' W.on a true line, bet. secs.4 and 5.
 Over level land, through greasewood brush 4 to 5 ft.high.
 5.34 Wagon road brs.NW. and SE.
 15.00 Wash, 15 lks.wide, course SW.
 18.50 Wash, 20 lks.wide, course SW.
 22.70 Wash, 12 lks.wide, course S.70°W.
 40.04 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,

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22. Subdivision of Township 4 South, Range 15 West.

Chains.

$\frac{1}{2}$ S 5 on W half;
 S 4 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 cor.
 42.60 Wash, 15 lks. wide, course S. 60° W.
 66.70 Wash, 10 lks. wide, course SW.
 70.00 Wash, 15 lks. wide, course S. 75° W.
 76.60 A wood road brs. N. 80° E. and S. 80° W.
 80.04 Cor. of secs. 4, 5, 8 and 9.
 Land, level adobe; soil covered with loose stone 4 to 6
 ins. in diam., Greasewood brush 4 to 6 ft. high.
 Palo verde and ironwood timber along washes. Giant cactus.
 August 21, 1913.

GENERAL DESCRIPTION.

This township has a broken rocky ridge extending through
 secs. 34, 27, 22, 23, 15, 14; also in 1, 2, 12.
 There are several miners' prospect holes in the rough
 parts. The remaining portion of the township is nearly
 level, covered with greasewood brush, scattering palo
 verde, ironwood, giant cactus. The soil on the level
 is adobe, and the greater part of it is covered with
 malpais rock; and no grass. The surface is cut
 with numerous shallow washes.
 There are a few miners' cabins, but none occupied. No
 settlers.

W. H. Shorn
 U.S. Surveyor.

Chains.

Survey commenced August 18, 1913, and executed with a Young and Son's light mountain transit No. 8485, with Smith solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to ~~single mins. of~~ arc, which is also the least count of the latitude and declination arcs.

Note: For adjustment of the solar see notes of T.5 S., R.15 W., in Book "G."

At 9h. 0m. a.m., l.m.t., I set off $33^{\circ} 01\frac{1}{2}'$ N. on lat. arc; and $13^{\circ} 09\frac{1}{2}'$ N. on decl. arc; and determine a meridian with the solar at the cor. of secs. 5, 6, 31 and 32, on the south bdy. of the Tp., established by me, as described in Book "A."

Thence I run, on a true line, $N. 0^{\circ} 03' W.$, bet. secs. 31 and 32.

31.50 Old road brs. $N. 25^{\circ} W.$

40.00 Set an iron post 3 ft. long 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked, $\frac{1}{4}$ S 31 on W. half; S 32 on E. half; and 1913 on S. half; from which,

A palo verde, 6 ins. in diam., bears $S. 57^{\circ} E.$, 168 links dist., marked $\frac{1}{4}$ S 32 B T.

A palo verde, 6 ins. in diam., bears $N. 12^{\circ} 25' W.$, 252 lks. dist., marked $\frac{1}{4}$ S 31 B T.

45.50 Phoenix and Yuma auto road brs. $N. 60^{\circ} W.$ and $S. 60^{\circ} E.$

46.00 Wash, 300 lks. wide, course $SE.$

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 29, 30, 31 and 32, with brass cap, marked,

T 4 S S 30 in NW.,

R 15 W S 29 in NE.,

S 32 in SE., and

S 31 in SW. quadrants;

1913 on S. half; from which the only tree

in limits:

A palo verde, 8 ins. in diam., bears $S. 72^{\circ} E.$, 168 lks. dist., marked T 4 S R 15 W S 32 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.

Land, level.

Soil, volcanic ash, gravelly surface, 2nd rate.

Timber, scattering palo verde and ironwood.

Undergrowth, greasewood brush.

40.00 East, on a random line, bet. secs. 29 and 32.

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

Intersect cor. of secs. 28, 29, 32 and 33.

Thence I run,

West, on a true line, bet. secs. 29 and 32.

Over level land, through scattering greasewood brush.

6.02 Wash, 150 lks. wide, course south.

40.01 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap, marked, $\frac{1}{4}$ S 29 on N. half; and S 32, 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.

Aug. 18: At this cor. I set off $13^{\circ} 07\frac{1}{2}'$ N. on the decl. arc; and at 12h 3m. l.m.t., I observe the sun on the meridian; the resulting lat. is $33^{\circ} 02\frac{1}{2}'$ N.

65.27 Old road brs. NW. and SE.

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

Land, level.

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24. Subdivision of Township 4 South, Range 15 West.

Chains.

Soil, volcanic ash, gravelly surface, 2nd rate.
 Timber, scattering palo verde and ironwood.
 Undergrowth, scattering greasewood brush.

40.00

West, on a random line, bet. secs. 30 and 31.

80.78

Set temp. $\frac{1}{4}$ sec. cor.Intersect west bdy. of Tp., $\frac{1}{4}$ lks. north of the cor. of secs. 25, 30, 31 and 36, established by W.H. Thorn, U.S. Surveyor, as described in Book "B."

Thence I run,

N. $89^{\circ}58'E.$, on a true line, bet. secs. 30 and 31.

Over level land, through scattering greasewood brush.

1.78

Phoenix and Yuma auto road brs. N. $60^{\circ}W.$ and S. $60^{\circ}E.$

40.78

Set an iron post $\frac{3}{4}$ 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 30 on N. half; and

S 31, 1913 on S. half;

dig pits, 18x18x12 ins., E and W of cor., $\frac{3}{4}$ ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

60.78

Wash, 200 lks. wide, course SE.

64.28

Old road brs. N. $10^{\circ}W.$ and S. $10^{\circ}E.$

71.78

Wash, 200 lks. wide, course S. $20^{\circ}E.$

80.78

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

Land, level.

Soil, volcanic, covered with gravel, 2nd rate.

Timber, scattering palo verde and ironwood.

Undergrowth, scattering greasewood brush.

August 18, 1913.

August 19, 1913:

At 8h. 0m. a.m., l.m.t., I set off $33^{\circ}02\frac{1}{2}'N.$ on lat. arc; and $12^{\circ}52'N.$ on decl. arc; and determine a meridian with the solar, at the cor. of secs. 29, 30, 31 and 32.

Thence I run,

N. $0^{\circ}03'W.$, on a true line, bet. secs. 29 and 30.

Over level land, through scattering greasewood brush.

10.00

Old road brs. N. $60^{\circ}W.$ and S. $60^{\circ}E.$

40.00

Set an iron post $\frac{3}{4}$ 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 30 on W. half; S 29 on E. half; and

S 31, 1913 on S. half;

dig pits, 18x18x12 ins., N. and S. of cor., $\frac{3}{4}$ 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 $\frac{3}{4}$ ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 19, 28, 29 and 30, with brass cap, marked, brs. N. $60^{\circ}W.$ and S. $60^{\circ}E.$ Cor. of secs. 29, 30, 31 and 32, course S. $19^{\circ}E.$

Land, level. R 15 W S 20 in NE.,

S. $29^{\circ}E.$ in SE.; and level, and level.

Timber, scattering palo verde and ironwood.

Undergrowth, scattering greasewood brush. 1913 on S. half; and 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,An ironwood 8 ins. in diam., brs. S. $64\frac{1}{2}^{\circ}W.$, 46 lks. dist., marked T 4 S R 15 W S 30 B T.

No other trees within limits.

Land, level.

Soil, volcanic ash, surface covered with gravel, 2nd rate.

Timber, scattering palo verde and ironwood.

Undergrowth, scattering greasewood brush.

Subdivision of Township 4 South, Range 15 West. 25.

Chains.

40.00 East, on a random line, bet. secs. 20 and 29.
 Set temp. $\frac{1}{4}$ sec. cor.
 79.98 Intersect cor. of secs. 20, 21, 28 and 29.
 Thence I run,
 West, on a true line, bet. secs. 20 and 29.
 Over level land.
 15.98 Wash, 100 lks. wide, course south.
 39.99 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked,
 $\frac{1}{4}$ S 20 on N. half; and
 $\frac{1}{4}$ S 29, 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.
 79.98 Cor. of secs. 19, 20, 29 and 30.
 Land, level.
 Soil, volcanic ash, covered with gravel, 2nd rate.
 Timber, palo verde and ironwood.
 Undergrowth, scattering greasewood.
 Aug. 19: At this corner I set off $12^{\circ}48'$ N. on decl. arc;
 and at 12h. 3m. l.m.t., I observe the sun on the meri-
 dian; the resulting lat. is $33^{\circ}03\frac{1}{2}'$ N.

40.00 West, on a random line, bet. secs. 19 and 30.
 Set temp. $\frac{1}{4}$ sec. cor.
 80.75 Intersect west bdy. of Tp., 3 lks. north of cor. of secs. 19,
 24, 25 and 30, established by W.H. Thorn, U.S. Surveyor,
 as described in Book "B."
 Thence I run,
 N. $89^{\circ}59'$ E., on a true line, bet. secs. 19 and 30.
 Over level land, through greasewood brush.
 10.75 Wash, 100 lks. wide, 2 ft. deep, course S. 5° E.
 24.75 Wash, 100 lks. wide, 2 ft. deep, course south.
 40.75 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 19 on N. half; and
 $\frac{1}{4}$ S 30, 1913 on S. half; from which,
 A palo verde, 8 ins. in diam., brs. S. $51\frac{1}{2}^{\circ}$ E., 1
 123 lks. dist., marked $\frac{1}{4}$ S 30 B T.
 A palo verde, 10 ins. in diam., brs. N. $79\frac{1}{2}^{\circ}$ E.,
 82 lks. dist., marked $\frac{1}{4}$ S 19 B T.
 55.75 Wash, 75 lks. wide, 1 ft. deep, course S. 20° W.
 80.75 Cor. of secs. 19, 20, 29 and 30.
 Land, level.
 Soil, 2nd rate, volcanic ash, covered with gravel.
 Timber, palo verde and ironwood, scattering.
 Undergrowth, scattering greasewood brush.

40.00 N. $0^{\circ}03'$ W., on a true line, bet. secs. 19 and 20.
 Over level land.
 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 19 on W. half;
 $\frac{1}{4}$ S 20 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 $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,
 West of cor.
 51.00 Old road brs. NE. and SW.
 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in
 the ground, for cor. of secs. 17, 18, 19 and 20, with
 brass cap, marked,
 T 4 S S 18 in NW.,
 R 15 W S 17 in NE.,

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Chains.

S 20 in SE., and
S 19 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
corner; from which, the only bearing tree within limits:

An ironwood, 12 ins. in diam., brs. N. $81\frac{1}{2}^{\circ}$ W.,
238 lks. dist., marked T 4 S R 15 W S 18 B T.

Land, level.

Soil, 2nd rate, volcanic ash; gravelly surface.

Timber, scattering palo verde and ironwood.

Undergrowth, scattering greasewood.

August 19, 1913.

August 20, 1913:

East, on a random line, bet. secs. 17 and 20.

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

79.91 Intersect N and S. line, 11 lks. south of cor. of secs. 16,
17, 20 and 21.

Thence I run,

S. $89^{\circ}55'$ W., on a true line, bet. secs. 17 and 20.

Over level land.

3.91 Old road brs. NE and SW.

35.91 Wash, 50 lks. wide, 2 ft. banks, course south.

39.955 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 17 on N. half; and

S 20, 1913 on S. half; from which,

A palo verde, 36 ins. in diam., brs. N. $3\frac{1}{2}^{\circ}$ E., 238
lks. dist., marked $\frac{1}{4}$ S 17 B T.

An ironwood, 12 ins. in diam., brs. S. $18\frac{1}{2}^{\circ}$ W., 200
lks. dist., marked $\frac{1}{4}$ S 20 B T.

41.91 Wash, 50 lks. wide, 2 ft. banks, course south.

79.91 Cor. of secs. 17, 18, 19 and 20.

Land, level.

Soil, 2nd rate; volcanic ash. Gravelly surface.

Timber, palo verde and ironwood, scattering.

Undergrowth, scattering greasewood brush.

At 10h. 0m. a.m., l.m.t., I set off $33^{\circ}04\frac{1}{2}'$ N. on lat. arc;
and $12^{\circ}30'$ N. on decl. arc; and determine a meridian
with the solar at the cor. of secs. 17, 18, 19 and 20.

Thence I run,

West, on a random line, bet. secs. 18 and 19.

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

80.63 Intersect west bdy. of Tp., 12 lks. north of cor. of secs.
13, 18, 19 and 24, estab. by W. H. Thorn, U.S. Surveyor, as de-

scribed in Book "B." Thence I run,
N. $89^{\circ}55'$ E., on a true line, bet. secs. 18 and 19.

Over level land.

17.63 Wash, 100 lks. wide, 3 ft. banks, course S. 5° E.

40.63 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 18 on N. half; and

S 19, 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,
north of cor.

78.13 Wash, 50 lks. wide, 2 ft. deep, course south.

80.63 Cor. of secs. 17, 18, 19 and 20.

Land, level.

Soil, 2nd rate. Volcanic ash; gravelly surface.

Timber, scattering palo verde and ironwood; greasewood
brush.

August 20: At this cor., I set off $12^{\circ}28\frac{1}{2}'$ N. on decl. arc;

Subdivision of Township 4 South, Range 15 West, 27.

Chains.

and at 12h.3m. l.m.t., I observe the sun on the meridian; the resulting latitude is 33° 04½'N.

N.0°03'W., on a true line, bet. secs.17 and 18.
Over level land.

5.00 Wash, 50 lks.wide, 2 ft. deep, course SW.
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 17 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.

46.00 Wash, 50 lks.wide, 2 ft. banks, course SW.
71.00 Wash, 50 lks.wide, 2 ft. banks, course S.30° W.
80.00 Set an iron post 3 ft.long, 2 ins. in diam., 24 ins. in the ground, for cor.of secs. 7,8,17 and 18, with brass cap, marked, T 4 S S 7 in NW., R 15 W S 8 in NE., S 17 in SE., and S 18 in SW. quadrants; 1913 on S.half; from which, An ironwood, 8 ins. in diam., brs.N.81¼°E., 430 lks.dist., marked T 4 S R 15 W S 8 B T. A palo verde, 10 ins. in diam., brs.S.12°E., 280 lks.dist., marked T 4 S R 15 W S 17 B T. An ironwood, 10 ins. in diam., brs.S.76°W., 214 lks.dist., marked T 4 S R 15 W S 18 B T. A palo verde, 18 ins. in diam., brs.N.20¾°W., 230 lks.dist., marked T 4 S R 15 W S 7 B T.

Land,level.
Soil, 2nd rate. Volcanic ash, covered with gravel.
Timber, scattering palo verde and ironwood.
Undergrowth, scattering greasewood brush.

40.00 East, on a random line, bet. secs.8 and 17.
79.94 Set temp.¼ sec.cor. Intersect N and S. line, 7 lks.south of cor.of secs.8,9, 16 and 17. Thence I run, S.89°57'W., on a true line, bet. secs.8 and 17. Over level land.

7.94 Wash, 50 lks.wide, 3 ft. banks, course S.20° W.
39.97 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for ¼ sec.cor., with brass cap, marked, ¼ S 8 on N.half; and S 17, 1913 on S.half; dig pits, 18x18x12 ins., E.and W. of cor., 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N.of cor.

66.94 Wash, 50 lks.wide, 2 ft.banks, course SE.
71.94 Wash, 50 lks.wide, 2 ft. banks, course SE.
79.94 Cor.of secs.7,8,17 and 18. Land,level. Soil, 2nd rate, volcanic ash; gravelly surface. Timber, scattering palo verde and ironwood. Undergrowth, scattering greasewood brush.

August 20, 1913.

40.00 Aug. 21, 1913: West, on a random line, bet. secs.7 and 18. Set temp. ¼ sec.cor.

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28. Subdivision of Township 4 South, Range 15 West

Chains

- 80.61 Intersect west bdy. of Tp., 5 lks. north of cor. of secs. 7, 12, 13 and 18, established by W.H. Thorn, U.S. Surveyor, as described in Book "B."
Thence I run,
N. 89° 58' E., on a true line, bet. secs. 7 and 18.
Over level land, through scattering greasewood brush.
- 5.61 Wash, 150 lks. wide, 2 ft. banks, course south.
- 26.61 Wash, 50 lks. wide, 2 ft. banks, course S. 10° W.
- 40.61 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 7 on N. half; and S 18, 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. From which, the only tree within limits.
A palo verde, 10 ins. in diam., brs. S. 64° W., 146 lks. dist., marked $\frac{1}{4}$ S 18 B T.
- 80.61 Cor. of secs. 7, 8, 17 and 18.
Land, level.
Soil, 2nd rate, volcanic ash; gravelly surface.
Timber, scattering palo verde and ironwood.
Undergrowth, scattering greasewood brush.
-
- At 10.0m. a.m., l.m.t., I set off 33° 05' N. on lat. arc; and 12h. 10 $\frac{1}{2}$ ' N. on decl. arc, and determine a meridian with the solar at the cor. of secs. 7, 8, 17 and 18.
Thence I run,
N. 0° 03' W., on a true line, bet. secs. 7 and 8.
Over level land.
- 25.00 Wash, 50 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 7 on W. half; S 8 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 $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor. From which, the only tree within limits:
An ironwood, 6 ins. in diam., brs. S. 64 $\frac{1}{2}$ ° E., 50 lks. dist., marked $\frac{1}{4}$ S 8 B T.
- 65.00 Wash, 50 lks. wide, 2 ft. banks, course S. 20° W.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 5, 6, 7 and 8, with brass cap, marked,
T 4 S S 6 in NW,
R 15 W S 5 in NE,
S 8 in SE., and
S 7 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. From which, the only tree within limits:
A palo verde, 8 ins. in diam., brs. S. 43 $\frac{1}{2}$ ° E., 175 lks. dist., marked T 4 S R 15 W S 8 B T.
- Land, level.
Soil, 2nd rate, volcanic ash; gravelly surface.
Timber, scattering palo verde and ironwood.
Underbrush, scattering greasewood brush.
Aug. 21: At this cor. I set off 12° 09' N. on decl. arc; and at 12h. 3m. l.m.t., I observe the sun on the meridian; the resulting lat. is 33° 06' N.
-
- 40.00 East, on a random line, bet. secs. 5 and 8.
- 80.00 Set temp. $\frac{1}{4}$ sec. cor.
Intersect N. and S. line, 12 lks. south of cor. of secs. 4, 5,

Chains.

8 and 9.
Thence I run,
S-89°55'W., on a true line, bet. secs.5 and 8.
Over level land.
10.00 Old road brs.SE. and NW.
20.00 Wash, 75 lks.wide, 2 ft. deep, 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 5 on N.half; and
S 8, 1913 on S.half; from which,
A palo verde, 12 ins. indiam., brs.N.36 $\frac{1}{2}$ °W., 69
lks.dist., marked $\frac{1}{4}$ S 5 B T.
A palo verde, 12 ins. in diam., brs.S.24 $\frac{1}{4}$ °W.,
410 lks. dist., marked $\frac{1}{4}$ S 8 B T.
50.00 Wash, 200 lks.wide, course SW.
69.00 Wash, 50 lks.wide, 2 ft.banks, course SW.
80.00 Cor.of secs.5,6,7 and 8.
Land,level.
Soil, 2nd rate, volcanic ash, gravelly surface.
Timber, scattering palo verde and ironwood.
Undergrowth, scattering greasewood brush.

West, on a random line, bet. secs.6 and 7.
40.00 Set temp. $\frac{1}{4}$ sec.cor.
80.51 Intersect west bdy.of Tp., 5 lks.south of cor.of secs.1,
6,7 and 12, established by W.H.Thorn, U.S.Surveyor,
as described in Book "B."
Thence I run,
S-89°58'E., on a true line, bet. secs.6 and 7.
Over level land.
38.51 Wash, 50 lks.wide, course south.
40.51 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 6 on N.half; and
S 7, 1913 on S.half; from which,
A palo verde, 10 ins. in diam., brs.S.37 $\frac{1}{4}$ °E., 167
lks.dist., marked $\frac{1}{4}$ S 7 B T.
A palo verde, 8 ins. in diam., brs.N.9°W., 66
lks.dist., marked $\frac{1}{4}$ S 6 B T.
80.51 Cor.of secs.5,6, 7 and 8.
Land,level.
Soil, 2nd rate, volcanic ash; gravelly surface.
Timber, scattering palo verde and ironwood.
Undergrowth, scattering greasewood brush.

N.0°03' W., on a random line, bet. secs.5 and 6.
40.00 Set temp. $\frac{1}{4}$ sec.cor.
80.17 Intersect N.bdyof Tp. at the cor.of secs.5,6,31 and 32,
established by W.H.Thorn, U.S.Surveyor, as described
in Book "B."
Thence I run,
S.0°03' E., on a true line, bet. secs. 5 and 6.
Over level land.
40.17 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 6 on W.half;
S 5 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 3 $\frac{1}{2}$ ft.base, 1 $\frac{1}{2}$ ft. high,W.
of cor.
58.17 Old road brs.S.60°E. and N.60°W.
80.17 Cor.of secs.5,6,7 and 18.

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30. Subdivision of Township 4 South, Range 15 West.
Chains.

Land, level.

Soil, 2nd rate, volcanic ash; gravelly surface.

Timber, scattering palo verde and ironwood.

Undergrowth, scattering greasewood brush.

August 21, 1913.

For the general description of this township see the
notes of W.H.Thorn, U.S.Surveyor, in this book.

N. D. Simulff.
U.S. Transitman.

FOR FINAL OATHS OF UNITED STATES SURVEYOR. AND TRANSITMAN.

See Book "L" (Subdivision of T.5 S., R.13 W.)

I, _____, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for _____ bearing date of the _____ day of _____, 191 _____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

_____ of the _____ Meridian, in the State of _____, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

U. S. Surveyor.

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



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix Ariz. DECEMBER 1, 1914

The foregoing field notes of the survey of _____ the Subdivision lines of _____ Township No.4 South, Range No.15 West, of the Gila and Salt River Base and Meridian, in the State of Arizona.

executed by W.H.Thorn, U.S.Surveyor and WK Kierulff, U.S.Transitman under ~~the~~ special instructions dated February 26, 1913 for Group 28, 191 _____, 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.~~