

2699

orig. 111

Book "F." BOOK 2699
Subdivisions

FIELD NOTES

OF THE SURVEY OF THE

Subdivision lines

of

Township 5 South, Range 16 West,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

W. K. Kierulff,

In the capacity of U. S. ~~Transitman~~ ^{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 July 2, 1913.

Survey completed July 28, 1913.

(1A)

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INDEX DIAGRAM.

Township 5 South, Range 16 West.

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First Standard Parallel South

6-151

- Book "A"
- Book "B"
- Book "C"
- Unsurveyed.

Chains.

Survey commenced July 2, 1913, and executed with a Young and Sons' light mountain transit No. 8485, with solar attachment. The horizontal limb is provided with two double verniers, placed opposite to each other, and reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

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

At a point near camp, in sec. 22, T. 4 S., R. 16 W., at 4h. 30m., p.m., l.m.t., I set off $33^{\circ}04'$ N. on the lat. arc; and $23^{\circ}03'$ N. on the decl. arc, and determine a meridian with the solar. I mark the meridian thus determined by a tack driven in a wooden peg set in the ground, 5 chs. N. of my station.

July 2, 1913.

July 3, 1913: At 12h. 54m. a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined, by a tack in a wooden peg set 5 chs. to the north of my station.

At 7h. 0m. a.m., l.m.t., I lay off the azimuth of Polaris to the west: $1^{\circ}22'$ and mark the meridian thus determined by a tack in a wooden peg already set 5 chs. N. of my station.

At 8h. 0m. a.m., l.m.t., I set off $33^{\circ}04'$ N. on the lat. arc; $23^{\circ}00'$ N. on the decl. arc, and determine a meridian with the solar. The meridian thus determined by the solar apparatus fall respectively about $20''$ E. and W. of the meridian determined by observation on Polaris; therefore, I conclude that the adjustments of the transit are satisfactory.

At the cor. of secs. 1, 2, 35 and 36 on the N. bdy. of T. 5 S., R. 16 W., established by me, as described in Book "A,"
At 9h. 0m. a.m., l.m.t., I set off $33^{\circ}01\frac{1}{2}'$ N. on the lat. arc, and $23^{\circ}00'$ N. on the decl. arc, and determine a meridian with the solar.

Thence I run,

S. $0^{\circ}01'$ E., on a true line, bet. secs. 1 and 2.

39.50

Dry wash, 30 lks. wide, 5 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 2 on W. half;

S 1 on E. half; and

1913 on S. half; from which,

A palo verde, 6 ins. in diam., brs. S. $24\frac{1}{4}^{\circ}$ E., 197 lks. dist., marked $\frac{1}{4}$ S 1 B T.

A palo verde, 12 ins. in diam., brs. N. 57° W., 184 lks. dist., marked $\frac{1}{4}$ S 2 B T.

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 5 SS¹¹ 2 in NW.,

R 16 W S 1 in NE.,

S 12 in SE., and

S 11 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.

Soil, volcanic ash, with sand and gravel, 2nd rate.

Timber, scattering palo verde and ironwood. Greasewood brush.

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2. Subdivision of Township 5 South, Range 16 West.

Chains.

- East, on a random line, bet. secs.1 and 12.
 40.00 Set temp. $\frac{1}{4}$ sec.cor.
 80.08 Intersect east bdy.of Tp., 3 lks.south of the cor.of secs.
 1,6,7 and 12, established by me, as described in Book
 "A."
 Thence I run,
 S.89°59'W., on a true line, bet. secs.1 and 12.
 35.28 Dry wash, 30 lks.wide, 5 ft. banks, course SE.
 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 1 on N.half; and
 S 12, 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.
 45.00 Dry wash, 30 lks.wide, course SE.
 80.08 Cor.of secs.1,2,11 and 12.
 Land,level.
 Soil, volcanic ash, 2nd rate.
 Timber, scattering palo verde.
 Undergrowth, greasewood brush.

- July 3, 1913: At the corner of secs.1,2,11 and 12, I set
 off 22°59'N. on the decl.arc, and at 12h.4m. p.m., l.m.t.,
 I observe the sun on the meridian; the resulting lati-
 tude is 33°01' N.
 Thence I run,
 S.0°01'E., on a true line, bet. secs.11 and 12.
 21.00 Dry wash, 50 lks.wide, 5 ft. banks, course S.10° E.
 40.00 Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec.cor., with brass cap, marked
 $\frac{1}{4}$ S 11 on W.half;
 S 12 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.
 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 5 S S 11 in NW.,
 R 16 W S 12 in NE.,
 S 13 in SE., and
 S 14 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.
 Soil, volcanic ash, 2nd rate.
 Timber, scattering palo verde.
 Undergrowth, greasewood brush.

- East, on a random line, bet. secs.12 and 13.
 40.00 Set temp. $\frac{1}{4}$ sec.cor.
 79.99 Intersect east bdy.of Tp., 7 lks.north of cor.of secs.7,
 12,13 and 18, established by me, as described in
 Book "A."
 Thence I run,
 N.89° 57' W., on a true line, bet. secs.12 and 13.
 4.49 Dry wash, 50 lks.wide, 5 ft.banks, course S.30°E.

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39.995 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; 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 corner.

53.14 Wash, 50 lks. wide, 5 ft. banks, course S. 30° E.

79.99 Cor. of secs. 11, 12, 13 and 14.
Land, level.
Soil, volcanic ash; 2nd rate.
Timber, scattering palo verde.
Undergrowth, greasewood brush.

July 3, 1913.

July 7, 1913.
At the cor. of secs. 11, 12, 13 and 14, I set off $22^{\circ}36\frac{1}{2}'$ N. on decl. arc, and at noon, observe the sun on the meridian; the resulting lat. is $33^{\circ}00'$ N.
Thence I run,
S. $0^{\circ}01'$ E., on a true line, bet. secs. 13 and 14.

25.00 Dry wash, 30 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 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. $50\frac{1}{2}^{\circ}$ E., 168 links dist., marked $\frac{1}{4}$ S 13 B T.
An ironwood, 8 ins. in diam., brs. S. $55\frac{3}{4}^{\circ}$ W., 207 lks. dist., marked $\frac{1}{4}$ S 14 B T.

50.00 Dry wash, 50 lks. wide, 3 ft. banks, course S. 70° E.

62.00 Dry wash, 25 lks. wide, 4 ft. banks, course east.

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 5 S S 14 in NW.,
R 16 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, 4 ft. base, 2 ft. high, W. of cor.
Land, level.
Soil, volcanic ash, 2nd rate.
Timber, palo verde and ironwood.
Undergrowth, greasewood brush.

40.00 East, on a random line, bet. secs. 13 and 24.
Set temp. $\frac{1}{4}$ sec. cor.

80.01 Intersect east bdy. of Tp., 9 lks. N. of cor. of secs. 13, 18, 19 and 24, established by me, as described in Book "A."
Thence I run,
N. $89^{\circ}56'$ W., on a true line, bet. secs. 13 and 24.

8.01 Dry wash, 50 lks. wide, 4 ft. banks, course SE.

32.01 Dry wash, 25 lks. wide, 5 ft. banks, course SE.

37.01 Wash, (dry) 50 lks. wide, 3 ft. banks, course SE.

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 13 on N. half; and S 24, 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,

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80.01 N. of cor.
Cor. of secs. 13, 14, 23 and 24.
Land, level.
Soil, volcanic ash, 2nd rate.
Timber, palo verde and ironwood.
Undergrowth, greasewood brush.

July 7, 1913.

July 13, 1913.

At 9h.0m. a.m., l.m.t., I set off $21^{\circ} 52\frac{1}{2}'$ N. on the decl. arc; and $32^{\circ} 59'$ N. on lat. arc, and determine a meridian with the solar, at the cor. of secs. 13, 14, 23 and 24.

Thence I run,

38.50 S $0^{\circ} 01'$ E., on a true line, bet. secs. 23 and 24.
40.00 Dry wash, 75 lks. wide, 2 ft. banks, course SE.

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 on E. half; and

1913 on S. half; from which,

A palo verde, 8 ins. in diam., bears S 36° E., 37 lks. dist., marked $\frac{1}{4}$ S 24 B T.

A palo verde, 12 ins. in diam., bears N 64° W., 45 lks. dist., marked $\frac{1}{4}$ S 23 B T.

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 5 S S 23 in NW.,

R 16 W S 24 in NE.,

S 25 in SE., and

S 26 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.

Soil, volcanic ash, 2nd rate.

Timber, palo verde and ironwood.

Undergrowth, greasewood brush.

July 13, 1913:

At the cor. of secs. 23, 24, 25 and 26, I set off $21^{\circ} 51'$ N. on the decl. arc, and at 12h.5m. l.m.t., observe the sun on the meridian; the resulting latitude is $32^{\circ} 58'$ N.

Thence I run,

40.00 East, on a random line, bet. secs. 24 and 25.

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

Intersect east bdy. of Tp., 5 lks. S of cor. of secs. 19, 24, 25 and 30, established by me, as described in Book "A."

Thence I run,

35.09 S $89^{\circ} 58'$ W., on a true line, bet. secs. 24 and 25.

40.045 Dry wash, 75 lks. wide, 3 ft. banks, course SE.

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; and

S 25, 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, 2 ft. high, N. of cor.

80.09 Cor. of secs. 23, 24, 25 and 26.

Land, level.

Soil, volcanic ash, 2nd rate.

Timber, palo verde and ironwood.

Subdivision of Township 5 South, Range 16 West.

5.

Chains.

Undergrowth, greasewood brush. July 13, 1913.

July 14, 1913. At 8h.0m. a.m., l.m.t., I set off 32°58'N. on the lat.arc; 21°44'N. on the decl.arc, and determine a meridian with the solar, at the cor.of secs.23,24, 25 and 26.

Thence I run, S.0°01'E., on a true line, bet. secs.25 and 26. Over level land.

25.00 Dry wash, 75 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 26 on W.half; S 25 on E.half, and 1913 on S.half; from which,

An ironwood, 6 ins. in diam., bears S.68 1/2°E., 168 lks.dist., marked 1/4 S 25 B T.

A palo verde, 8 ins. in diam., bears N.45 1/2°W., 111 links dist., marked 1/4 S 26 B T.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor.of secs.25,26, 35 and 36, with brass cap, marked

T 5 S S 26 in NW., R 16 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., bears N.67 1/2°E., 73 lks.dist., marked T 5 S R 16 W S 25 B T.

A palo verde, 20 ins. in diam., brs.S.52 3/4°E., 203 lks.dist., marked T 5 S R 16 W S 36 B T.

A palo verde 8 ins. in diam., brs.S.27 3/4°W., 111 lks.dist., marked T 5 S R 16 W S 35 B T.

An ironwood, 16 ins. in diam., brs.N.32 1/4°W., 264 lks.dist., marked T 5 S R 16 W S 26 B T.

Land, level. Soil, volcanic ash, 2nd rate. Timber, palo verde and ironwood. Undergrowth, greasewood brush.

40.00 East, on a random line, bet. secs.25 and 36. Set temp. 1/4 sec.cor.

July 14; At this point, I set off 21°42'N.on the decl. arc, and at 12h.6m.l.m.t., observe the sun on the meridian; the resulting lat.is 32° 57 1/2'N.

79.99 Intersect east bdy.of Tp., 2 links N.of cor.of secs.25,30, 31 and 36, established by me, as described in Book "A".

Thence I run, N.89° 59' W., on a true line, bet. secs.25 and 36.

39.995 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 25 on N.half; and S 36, 1913 on S.half; from which,

A palo verde, 8 ins. in diam., brs.S.79 3/4°W., 124 lks.dist., marked 1/4 S 36 B T.

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

53.99 Dry wash, 75 lks.wide, 3 ft. banks, course SE. 79.99 Cor.of secs.25,26, 35 and 36.

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

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6. Subdivision of Township 5 South, Range 16 West.

Chains.

40.00 S⁰0°01'E., on a random line, bet. secs.35 and 36.
 Set temp. $\frac{1}{4}$ sec.cor.
 83.87 Intersect south bdy. of township (1st Standard Parallel South) 7 links N.89° 54' E.of the standard cor.of secs. 35 and 36, recently reestablished by W.H.Thorn, U.S. Surveyor, as described in Book "C."
 Thence I run,
 43.87 N.0°02'E., on a true line, bet. secs.35 and 36.
 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., with brass cap, marked $\frac{1}{4}$ S 35 on W.half; S 36 on E.half; and 1913 on S.half; from which,
 A palo verde, 8 ins.in diam., brs. N.11 $\frac{1}{2}$ °W., 153 lks. dist., marked $\frac{1}{4}$ S 35 B T.
 An ironwood, 8 ins. in diam., bears N.8 $\frac{1}{2}$ °E., 105 lks.dist., marked $\frac{1}{4}$ S 36 B T.
 83.87 Cor.of secs.25,26, 35 and 36.
 Land,level.
 Soil, volcanic ash, 2nd rate.
 Timber, scattering palo verde and ironwood.
 Undergrowth, scattering greasewood brush.
 July 14, 1913.

July 5, 1913:

At 9h.0m. a.m.,l.m.t., at the cor.of secs. 2,3,34 and 35, on the north bdy.of the Tp., established by me, as described in Book "A." I set off 33°01 $\frac{1}{2}$ 'N.on the lat. arc; 22°49 $\frac{1}{2}$ 'N. on the decl. arc, and determine a meridian with the solar.

Thence I run,
 18.00 S⁰0°01'E., on a true line, bet. secs.2 and 3.
 Wash, 30 lkswide, 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 3 on W.half; S 2 on E.half; and 1913 on S.half; from which,
 A palo verde, 6 ins. in diam., brs.S.39 $\frac{1}{2}$ °W.,74 lks.dist., marked $\frac{1}{4}$ S 3 B T.
 A palo verde, 6 ins. in diam., brs.S.21 $\frac{1}{2}$ °E.,346 lks.dist., marked $\frac{1}{4}$ S 2 B T.
 80.00 Set an iron post, 3 ft.long, 2 ins. in diam., 24ins. in the ground, for cor.of secs. 2,3,10 and 11, with brass cap, marked
 T 5 S S 3 in NW.,
 R 16 W S 2 in NE.,
 S 11 in SE., and
 S 10 in SW. quadrants;
 1913 on S.half; from which,
 A palo verde, 6 ins. in diam., brs.N.81 $\frac{1}{2}$ °E.,50 lks.dist., marked T 5 SR16 W S 2 B T.
 A palo verde, 8 ins. in diam., bears S.14 $\frac{1}{2}$ °E., 151 lks.dist., marked T 5 S R 16 W S 11 BT.
 A palo verde, 8 ins. in diam., bears S.42 $\frac{1}{2}$ °W., 309 lks.dist., marked T 5 S R 16 W S 10 B T.
 A palo verde,6 ins. in diam., brs.N.6 $\frac{1}{2}$ °W.,40 lks.dist., marked T 5 S R 16 W S 3 B T.
 Land,level, cut up by a net work of small surface washes.
 Soil, volcanic ash, sand and gravel.
 Timber, scattering palo verde and ironwood.
 Undergrowth, scattering greasewood brush.

Subdivision of Township 5 South, Range 16 West. 7.

Chains.

40.00 East, on a random line, bet. secs.2 and 11.
Set temp. 1/4 sec.cor.
79.99 Intersect N.and S. line, 3 links N.of cor.of secs.1,2,11 and 12.

Thence I run,
N.89°59'W., on a true line, bet. secs.2 and 11.
14.99 Dry wash, 50 lks.wide, 5 ft. banks, course SE.
39.995 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 2 on N.half; and S 11, 1913 on S.half; from which,
An ironwood, 5 ins. in diam., bears S.72 3/4° W., 115 lks.dist., marked 1/4 S 11 B T.
A palo verde, 5 ins. in diam., bears NW., 360 lks.dist., marked 1/4 S 2 B T.

60.99 Old road, brs.N. and S.
79.99 Cor.of secs.2,3,10 and 11.
Land,level.
Soil, volcanic ash, 2nd rate.
Timber, scattering palo verde and ironwood.
Undergrowth, scattering greasewood brush.
July 5, 1913.

July 7, 1913.
At 8h. 0m. a.m., l.m.t., I set off 33°01'N.on lat.arc; 22° 38'N. on the decl.arc, and determine a meridian with the solar at the cor.of secs.2,3,10 and 11.

Thence I run,
S.0°01'E., on a true line, bet. secs.10 and 11.
21.00 Wood road, brs.NE. and SW.
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 10 on W.half; S 11 on E.half; and 1913 on S.half; from which,
An ironwood, 8 ins. in diam., brs. N.3 1/4°W., 26 lks.dist., marked 1/4 S 10 B T.
An ironwood, 11 ins. in diam., brs.S.72°E., 132 lks.dist., marked 1/4 S 11 B T.

71.00 Wash, 25 lks.wide, 3 ft. banks, course east.
75.00 Wash, 50 lks.wide, 3 ft. banks, course east.
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 5 S S 10 in NW.,
R 16 W S 11 in NE.,
S 14 in SE., and
S 15 in SW. quadrants;
1913 on S.half; from which,
An ironwood, 10 ins. indiam., brs.N.8°35'E., 212 lks.dist., marked T 5 S R 16 W S 11 B T.
A palo verde, 6 ins. in diam., brs.S.11°25'E., 132 lks.dist., marked T 5 S R 16 W S 14 B T.
An ironwood, 8 ins. indiam., brs.S.41°W., 118 lks. dist., marked T 5 S R 16 W S 15 B T.
A palo verde, 8 ins. in diam., brs.N.46 1/2°W., 470 lks.dist., marked T 5 S R 16 W S 10 B T.

Land,level, cut up by numerous small washes, course east.
Soil, volcanic ash, covered with gravel, 2nd rate,
Timber, scattering palo verde and ironwood.
Undergrowth, scattering greasewood brush.

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8 Subdivision of Township 5 South, Range 16 West.

Chains.

- East, on a random line, bet. secs. 11 and 14.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.04 Intersect N. and S. line, 5 lks. S. of cor. of secs. 11, 12, 13, and 14.
 Thence I run,
 40.02 S $89^{\circ}58'W.$, on a true line, bet. secs. 11 and 14.
 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, 12 ins. in diam., brs. N. $58^{\circ}E.$, 197 lks. dist., marked $\frac{1}{4}$ S 11 B T.
 An ironwood, 10 ins. in diam., brs. S. $66^{\circ}W.$, 195 lks. dist., marked $\frac{1}{4}$ S 14 B T.
 48.04 Old wood road brs. N. and S.
 70.04 Dry wash, 50 lks. wide, 3 ft. banks, course SE.
 80.04 Cor. of secs. 10, 11, 14 and 15.
 Land, level.
 Soil, volcanic ash, 2nd rate.
 Timber, palo verde and ironwood.
 Undergrowth, greasewood brush.

July 7, 1913.

July 8, 1913:

- At the cor. of secs. 10, 11, 14 and 15, I set off $22^{\circ}30'N.$ on the decl. arc, and at noon, observe the sun on the meridian; the resulting lat. is $33^{\circ}00'N.$
 Thence I run,
 S $0^{\circ}01'E.$, on a true line, bet. secs. 14 and 15.
 2.00 Dry wash, 30 lks. wide, 3 ft. banks, course SE.
 10.00 Dry wash, 30 lks. wide, 3 ft. banks, course SE.
 15.00 Dry wash, 30 lks. wide, 3 ft. banks, course SE.
 36.00 Dry wash, 30 lks. wide, 3 ft. banks, course S. $70^{\circ}E.$
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked $\frac{1}{4}$ S 15 on W. half; S 14 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.
 45.00 Wash, 50 lks. wide, 3 ft. banks, course S. $80^{\circ}E.$
 55.00 Wash, 50 lks. wide, 2 ft. banks, course east.
 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 5 S S 15 in NW.,
 R 16 W S 14 in NE.,
 S 23 in SE., and
 S 22 in SW. quadrants;
 1913 on S. half; from which,
 A palo verde, 10 ins. in diam., brs. S. $63^{\circ}E.$, 179 lks. dist., marked T 5 S R 16 W S 23 B T.
 An ironwood, 8 ins. in diam., brs. S. $62^{\circ}W.$, 84 lks. dist., marked T 5 S R 16 W S 22 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 cor.
 Land, level.
 Soil, volcanic ash, 2nd rate.
 Timber, palo verde and ironwood; greasewood brush.

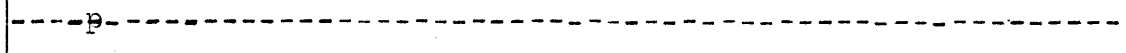
- 40.00 East, on a random line, bet. secs. 14 and 23.
 Set temp. $\frac{1}{4}$ sec. cor.
 80.05 Intersect the cor. of secs. 13, 14, 23 and 24.

Subdivision of Township 5 South, Range 16 West, 9.

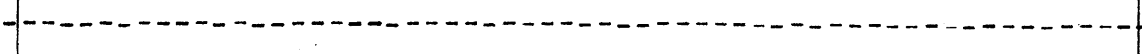
Chains.

Thence I run,
 West, on a true line, bet. secs.14 and 23.
 15.05 Dry wash, 30 lks.wide, 3 ft. banks, course SE.
 38.00 Old road, brs.N.and S.
 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 14 on N.half; and
 $\frac{1}{4}$ S 23, 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.
 60.05 Dry wash, 30 lks.wide, 3 ft.banks, course SE.
 73.05 Enter dry wash, course S.60°E., 25 lks.wide, 3 ft. banks.
 79.55 Leave dry wash, course from N.75°E.
 80.05 Cor.of secs.14,15,22 and 23.
 Land,level.
 Soil, volcanic ash, 2nd rate.
 Timber, palo verde and ironwood.
 Undergrowth, greasewood brush.

July 8, 1913.



July 15, 1913:
 At 10h. 0m. a.m.,l.m.t., I set off 32°59'N.on the lat.arc;
 and 21°34'N. on decl arc; and determine a meridian with
 the solar, at the cor.of secs.14,15,22 and 23.
 Thence I run,
 S.0°01'E., on a true line, bet. secs.22 and 23.
 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 22 on W.half;
 S 23 on E.half; and
 1913 on S.half;from which,
 An ironwood, 12 ins. in diam., brs.S'11 $\frac{1}{2}$ °E.,280
 lks.dist., marked $\frac{1}{4}$ S 23 B T.
 An ironwood, 15 ins. in diam., bears S.53 $\frac{1}{2}$ °W.,
 150 lks.dist., marked $\frac{1}{4}$ S 22 B T.
 62.00 Dry wash, 75 lks.wide, 3 ft. banks, course S.80°E.
 80.00 Set an iron post 3 ft.long, 2 ins. in diam., 24 ins. in
 the ground, for cor.of secs.22,23,26 and 27, with
 brass cap, marked
 T 5 S S 22 in NW.,
 R 16 W S 23 in NE.,
 S 26 in SE., and
 S 27 in SW. quadrant;
 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.
 Soil,volcanic ash, 2nd rate.
 Timber, scattering palo verde and ironwood.
 Undergrowth, greasewood brush.



East, on a random line, bet. secs.23 and 26.
 40.00 Set temp, $\frac{1}{4}$ sec.cor.
 79.94 Intersect cor.of secs.23,24,25 and 26.
 Thence I run,
 West, on a true line, bet. secs.23 and 26.
 28.74 Road brs.N.and S.
 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 23 on N.half; and
 S 26, 1913 on S.half; from which,
 An ironwood, 10 ins. in diam., brs.S.27 $\frac{1}{4}$ °W.,22
 lks.dist., marked $\frac{1}{4}$ S 26 B T.

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10. Subdivision of Township 5 South, Range 16 West.

Chains.

- An ironwood, 10 ins. in diam., bears $N.67\frac{3}{4}^{\circ}E.$,
92 lks. dist., marked $\frac{1}{4}$ S 23 B T.
- 45.50 Dry wash, 75 lks. wide, course SE.
79.94 Cor. of secs. 22, 23, 26 and 27.
Land, level.
Soil, volcanic ash, 2nd rate.
Timber, scattering palo verde and ironwood.
Undergrowth, scattering greasewood brush.
-
- S. $0^{\circ}01'$ E., on a true line, bet. secs. 26 and 27.
3.00 Dry wash, 75 lks. wide, 3 ft. banks, course S. $75^{\circ}E.$
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 27 on W. half;
S 26 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.
July, 15, 1913: At this cor. I set off $21^{\circ}33'$ N. on decl. arc
and at 12h. 6m., l.m.t., observe the sun on the meri-
dian; the resulting latitude is $32^{\circ}58'$ N.
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 5 S S 27 in NW.,
R 16 W S 26 in NE.,
S 35 in SE., and
S 34 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 corner; from which, the only tree in limits,
A palo verde, 6 ins. in diam., bears S. $20\frac{1}{4}^{\circ}W.$,
158 lks. dist., marked T 5 S R 16 W S 34 B T.
Land, level.
Soil, volcanic ash, 2nd rate.
Timber, palo verde and ironwood.
Greasewood brush undergrowth.
-
- East, on a random line, bet. secs. 26 and 35.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.00 Intersect N. and S. line, 2 lks. N. 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.
19.90 Road brs. N. and S.
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 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.
80.00 Corner of secs. 26, 27, 34 and 35.
Land, level.
Soil, volcanic ash, 2nd rate. Palo verde and ironwood.
Greasewood brush.
-
- S. $0^{\circ}01'$ E., on a random line, bet. secs. 34 and 35.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
83.93 Intersect south bdy. of Tp. (1st. Standard Parallel South)

Subdivision of Township 5 South, Range 16 West. 11.

Chains.

8 lks. N. $89^{\circ} 54'$ E. of the standard cor. of secs. 34 and 35, recently reestablished by W. H. Thorn, U. S. Surveyor, as described in Book "C."

Thence I run,

N. $0^{\circ} 02'$ E., on a true line, bet. secs. 34 and 35.

20.33

Dry wash, 75 lks. wide, 10 links deep, course SE.

43.93

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; from which,

A palo verde, 8 ins. in diam., bears S. $2\frac{1}{2}^{\circ}$ W., 195 lks. dist., marked $\frac{1}{4}$ S 34 B T.

A palo verde, 8 ins. in diam., brs. N. $33^{\circ} 20'$ E., 136 lks. dist., marked $\frac{1}{4}$ S 35 B T.

53.93

Dry wash, 50 lks. wide, 4 ft. banks, course southeast.

83.93

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

Land, level.

Soil, volcanic ash, 2nd rate.

Timber, palo verde and ironwood.

Undergrowth, greasewood brush.

July 15, 1913.

July 5, 1913.

At the cor. of secs. 3, 4, 33 and 34 on N. bdy. of Tp., established by me, as described in Book "A," I set off $22^{\circ} 48\frac{1}{2}'$ N. on decl. arc, and at noon, I observe the sun on the meridian; the resulting latitude is $33^{\circ} 01\frac{1}{2}'$ N.

Thence I run,

S. $0^{\circ} 02'$ E., on a true line, bet. secs. 3 and 4.

8.00

Dry wash, 100 lks. wide, 3 ft. banks, course S. 75° E.

28.55

Dry wash, 50 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 4 on W. half;

S 3 on E. half; and

1913 on S. half; from which,

A palo verde, 10 ins. in diam., bears S. $23^{\circ} 5'$ W., 232 lks. dist., marked $\frac{1}{4}$ S 4 B T.

A palo verde, 18 ins. in diam., bears S. $4^{\circ} 25'$ E., 228 lks. dist., marked $\frac{1}{4}$ S 3 B T.

70.00

Dry wash, 50 lks. wide, 3 ft. banks, course east.

74.00

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. 3, 4, 9 and 10, with brass cap, marked

T 5 S S 4 in NW.,

R 16 W S 3 in NE.,

S 10 in SE., and

S 9 in SW. quadrants;

1913 on S. half; from which,

An ironwood, 6 ins. in diam., brs. N. $76\frac{1}{2}^{\circ}$ E., 192 lks. dist., marked T 5 S R 16 W S 3 B T.

A palo verde, 6 ins. in diam., bears N. $25\frac{1}{2}^{\circ}$ W., 96 lks. dist., marked T 5 S R 16 W S 4 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.

Soil, volcanic ash, 2nd rate.

Timber, scattering palo verde and ironwood undergrowth.

Scattering greasewood brush.

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

40.00

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

BOOK 2699

12. Subdivision of Township 5 South, Range 16 West.

Chains.

79.98 Intersect N. and S. line, 2 lks. N. of the cor. of secs. 2, 3, 10 and 11.

Thence I run,
N. $89^{\circ}59'$ W., on a true line, bet. secs. 3 and 10.
Over level land.39.99 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ S 3 on N. half; and
 $\frac{1}{4}$ S 10, 1913 on S. half;
dig pits, 18x8x12 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 The cor. of secs. 3, 4, 9 and 10.

Land, level.

Soil, volcanic ash, 2nd rate.

Timber, scattering palo verde and ironwood.

Undergrowth, scattering greasewood brush.

July 5, 1913.

July 8, 1913:

At 8h. 0m. a.m., l.m.t., I set off $33^{\circ}01'$ N. on the lat. arc, $22^{\circ}31\frac{1}{2}'$ N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 3, 4, 9 and 10.

Thence I run,

S. $0^{\circ}02'$ E., on a true line, bet. secs. 9 and 10.

12.00 Dry wash, 30 lks. wide, 3 ft. banks, course SE.

27.00 Dry wash, 30 lks. wide, 3 ft. banks, course SE.

39.25 Dry wash, 20 lks. wide, 3 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 9 on W. half;

S 10 on E. half; and

1913 on S. half; from which,

A palo verde, 12 ins. in diam., bears S. $45\frac{1}{2}^{\circ}$ E., 96 lks. dist., marked $\frac{1}{4}$ S 10 B T.A palo verde 8 ins. in diam., brs. S. $73\frac{2}{3}^{\circ}$ W., 138 lks. dist., marked $\frac{1}{4}$ S 9 B T.

78.00 Dry wash, 30 lks. wide, 3 ft. banks, course SE.

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 5 S S 9 in NW.,

R 16 W S 10 in NE.,

S 15 in SE., and

S 16 in SW. quadrants;

1913 on S. half; from which,

An ironwood, 10 ins. in diam., brs. N. $65\frac{3}{4}^{\circ}$ E., 210 lks. dist., marked T 5 S R 16 W S 10 B T.A palo verde, 8 ins. in diam., bears S. $49\frac{3}{4}^{\circ}$ E., 221 lks. dist., marked T 5 S R 16 W S 15 B T.A palo verde, 8 ins. in diam., bears S. $21\frac{1}{2}^{\circ}$ W., 288 lks. dist., marked T 5 S R 16 W S 16 B T.An ironwood, 10 ins. in diam., brs. N. $71^{\circ}20'$ W., 182 lks. dist., marked T 5 S R 16 W S 9 B T.

Land, level.

Soil, volcanic ash, 2nd rate.

Timber, scattering palo verde and ironwood.

Undergrowth, scattering greasewood brush.

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

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

79.95 Intersect N. and S. line, 5 links south of the cor. of secs. 10, 11, 14 and 15.

Thence I run,

S. $89^{\circ}58'$ W., on a true line, bet. secs. 10 and 15.

Subdivision of Township 5 South, Range 16 West. 13.

Chains

2.45 Dry wash, 30 lks.wide, 3 ft. banks, course SE.
 9.95 Dry wash, 30 lks.wide, 3 ft. banks, course SE.
 19.95 Dry wash, 30 lks.wide, 3 ft. banks, course SE.
 26.95 Dry wash, 30 lks.wide, 3 ft. banks, course S.70°E.
 39.975 Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor.,of secs.10 and 15,with brass cap, marked $\frac{1}{4}$ S 10 on N.half; and S 15. 1913 on S.half; from which,
 An ironwood, 6 ins. in diam., brs.N.39 $\frac{1}{2}$ °E.,109 lks.dist., marked $\frac{1}{4}$ S 10 B T.
 An ironwood, 8 ins. in diam., brs.S.21°40'W.,347 lks.dist., marked $\frac{1}{4}$ S 15 B T.
 78.00 Dry wash, 30 lks.wide, 3 ft. banks, course SE.
 79.95 Cor.of secs.9,10,15 and 16.
 Land, level.
 Soil, volcanic ash, 2nd rate.
 Timber, scattering palo verde and ironwood.
 Undergrowth, scattering greasewood brush.
 July 28, 1913.

July 10, 1913.

S.0°02' E., on a true line, bet. secs.15 and 16.
 4.00 Dry wash, 25 lks.wide, 3 ft. banks, course east.
 11.00 Dry wash, 25 lks.wide, 3 ft. banks, course east.
 22.00 Dry wash, 75 lks.wide, 3 ft. banks, course S.70°E.
 30.00 Dry wash, 75 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.,of secs.15 and 16, with brass cap, marked,
 $\frac{1}{4}$ S 16 on W.half;
 S 15 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.
 56.00 Dry wash, 50 lks.wide, 3 ft. banks, course east.
 64.00 Dry wash, 25 lks.wide, 3 ft. banks, course east.
 78.00 Dry wash, 50 lks.wide, 5 ft. banks, course east.
 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 5-S S 16 in NW.,
 R 16 W S 15 in NE',
 S 22 in SE., and
 S 21 in SW. quadrants;
 1913 on S.half; from which,
 A palo verde, 8 ins. in diam., brs.N.21 $\frac{1}{2}$ °E.,105 lks.dist., marked T 5 S R 16 W S 15 B T.
 An ironwood, 10 ins. in diam., brs.N.21 $\frac{3}{4}$ °W.,209 lks.dist., marked T 5 S R 16 W S 16 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.
 Soil, volcanic ash, 2nd rate, gravelly surface.
 Timber, scattering palo verde and ironwood.
 Undergrowth, scattering greasewood brush.

40.00 East, on a random line, bet. secs.15 and 22.
 Set temp. $\frac{1}{4}$ sec.cor.
 79.98 Intersect N and S line, 14 lks.N.of cor.of secs.14,15, 22 and 23.
 Thence I run,
 N.89° 54'W.,on a true line, bet. secs.15 and 22.

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14. Subdivision of Township 5 South, Range 16 West.

Chains.

1.98 Dry wash, 30 lks.wide, 3 ft. banks, course SE.
 39.99 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., of secs.15 and 22, with brass cap, marked
 $\frac{1}{4}$ S 15 on N.half; and
 S 22, 1913 on S.half; from which,
 An ironwood, 8 ins. in diam., bears N.0°20'W., 167 lks.dist., marked $\frac{1}{4}$ S 15 B T.
 An ironwood, 6 ins. in diam., brs.S.34 $\frac{3}{4}$ °E., 353 lks.dist., marked $\frac{1}{4}$ S 22 B T.

49.48 Enter wash, course N.85°E. Follow to
 66.98 Leave wash, 50 lks.wide, 5 ft. banks.
 74.48 Same wash, course S.75°E.
 79.98 Cor.of secs.15,16,21 and 22.
 Land, level.
 Soil, volcanic ash, 2nd rate, gravel surface.
 Timber, scattering palo verde and ironwood.
 Undergrowth, greasewood brush.

July 10, 1913.

July 16, 1913.

At 9h.0m. a.m., 1.m.t., I set off 32°59' N. on the lat. arc; 21°24 $\frac{1}{2}$ ' N. on the decl.arc; and determine a meridian with the solar at the cor.of secs. 15,16,21 and 22.

Thence I run,
 S.0°02' E., on a true line, bet. secs.21 and 22.

40.00 Set an iron post, 3 ft.long, 1 in. in diam., 26 ins, in the ground, for $\frac{1}{4}$ sec.cor., of secs.21 and 22, with brass cap, marked
 $\frac{1}{4}$ S 21 on W.half;
 S 22 on E.half; and
 1913 on S.half; from which,
 An ironwood, 24 ins. in diam., brs.S.69 $\frac{1}{2}$ °E., 114 lks.dist., marked $\frac{1}{4}$ S 22 B T.
 An ironwood, 14 ins. in diam., brs.S.51 $\frac{1}{2}$ °W., 36 lks.dist., marked $\frac{1}{4}$ S 21 B T.

65.00 Dry wash, 75 lks.wide, 10 ft. banks, course S.80°E.
 80.00 Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins. in the ground, for cor.of secs. 21,22, 27 and 28, with brass cap, marked,
 T 5 S S 21 in NW.,
 R 16 W S 22 in NE.,
 S 27 in SE., and
 S 28 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.
 Soil, volcanic ash, 3rd rate.
 Timber, pale verde.
 Undergrowth, greasewood brush.

July 16. At this corner, I set off 21°23 $\frac{1}{2}$ ' N. on decl.arc; and at 12h.6m.1.m.t., I observe the sun on the meridian; the resulting latitude is 32° 58' N.

40.00 East, on a random line, bet. secs.22 and 27.
 Set temp. $\frac{1}{4}$ sec.cor.
 79.97 Intersect N.and S. line, 7 lks.N.of cor.of secs.22,23,26 and 27.
 Thence I run,
 N.89° 57' W., on a true line, bet. secs.22 and 27.
 34.97 Dry wash, 75 lks.wide, 5 ft. banks, course S.75°E.

Subdivision of Township 5 South, Range 16 West. 15.

Chains.

39.985 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 22 on N. half, and S 27 1913, on S. half; from which, An ironwood, 7 ins. in diam., bears S. $21\frac{1}{2}^{\circ}$ W., 91 lks. dist., marked $\frac{1}{4}$ S 27 B T. A palo verde, 6 ins. in diam., brs. N. $54^{\circ}10'E.$, 141 lks. dist., marked $\frac{1}{4}$ S 22 B T.

79.97 Cor. of secs. 21, 22, 27 and 28.
Land, level.
Soil, volcanic ash, 3rd rate.
Timber, palo verde and ironwood.
Undergrowth, greasewood brush.

July 16, 1913.

July 21, 1913.

At 8h. 0m. a.m., l.m.t., I set off $32^{\circ}58'$ N. on lat. arc; $20^{\circ}32'$ N. on decl. arc, and determine a meridian with the solar, at the cor. of secs. 21, 22, 27 and 28.

Thence I run, S. $0^{\circ}02'E.$, on a true line, bet. secs. 27 and 28.

7.00 Dry wash, 75 lks. wide, 3 ft. banks; course SE.

9.00 Dry wash, 75 lks. wide, 3 ft. banks, course east.

39.00 Dry wash, 75 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. secs. 27 and 28, with brass cap, marked,

$\frac{1}{4}$ S 28 on W. half;

S 27 on E. half; and

1913 on S. half; from which,

A palo verde, 14 ins. in diam., bears N. $80^{\circ}10'E.$, 218 lks. dist., marked $\frac{1}{4}$ S 27 B T.

A palo verde, 10 ins. in diam., bears N. $35^{\circ}40'W.$, 113 lks. dist., marked $\frac{1}{4}$ S 28 B T.

53.00 Dry wash, 100 lks. wide, 3 ft. banks, course S. $70^{\circ}E.$

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 27, 28, 33 and 34, with brass cap, marked,

T 5 S S 28 in NW.,

R 16 W S 27 in NE.,

S 34 in SE., and

S 33 in SW. quadrants;

1913 on S. half;

dig pits, 18x18x2 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, volcanic ash, 3rd rate, gravel, surface.

Timber, palo verde and ironwood.

Undergrowth, greasewood brush.

July 21, 1913.

July 22, 1913.

East, on a random line, bet. secs. 27 and 34.

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

80.00 Intersect N. and S. line, 7 lks. north of the cor. of secs. 26, 27, 34 and 35.

July 22: At this corner, I set off $20^{\circ}18'$ N. on the decl. arc; and at 12h. 6m. l.m.t., observe the sun on the meridian; the resulting latitude is $32^{\circ}57\frac{1}{2}'N.$

Thence I run,

N. $89^{\circ}57'W.$, on a true line, bet. secs. 27 and 34.

18.00 Dry wash, 75 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., of secs. 27 and 34, with

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Chains.

brass cap, marked,
 $\frac{1}{4}$ S 27 on N. half; and
 $\frac{1}{4}$ S 34, 1913 on S. half;
 dig pits 18x8x12 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.

53.00 Dry wash, 75 lks. wide, 5 ft. banks, course S. 70° E.
 80.00 Cor. of secs. 27, 28, 33 and 34.
 Land, level.
 Soil, volcanic ash, 3rd rate.
 Timber, palo verde and ironwood.
 Undergrowth, greasewood brush.

At 2h. 0m. p.m., l.m.t., I set off 32° 57 $\frac{1}{2}$ ' N. on the lat. arc;
 20° 17' N. on the decl. arc, and determine a meridian with
 the solar at the cor. of secs. 27, 28, 33 and 34.

Thence I run,
 S. 0° 02' E., on a random line, bet. secs. 33 and 34.

40.00 Set temp. $\frac{1}{4}$ sec. cor.
 84.13 Intersect south bdy. of Tp. (1st. Standard Parallel South) 8
 lks. N. 89° 54' E. of the standard cor. of secs. 33 and 34,
 recently reestablished by W. H. Thorn, U. S. Surveyor, as
 described in Book "C,"

Thence I run,
 N. 0° 01' E., on a true line, bet. secs. 33 and 34.

32.13 Dry wash, 75 lks. wide, 8 ft. banks, course S. 80° E.
 44.13 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec. cor. of secs. 33 and 34, with
 brass cap, marked
 $\frac{1}{4}$ S 33 on W. half;
 $\frac{1}{4}$ S 34 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.

69.13 Dry wash, 150 lks. wide, 2 ft. banks, course S. 70° E.
 84.13 Cor. of secs. 27, 28, 33 and 34.
 Land, level.
 Soil, volcanic ash, 2nd rate.
 Timber, palo verde and ironwood.
 Undergrowth, greasewood brush.

July 22, 1913.

July 9, 1913.
 From the cor. of secs. 4, 5, 32 and 33, on the north bdy. of
 the Tp., established by me, as described in Book "A,"
 I run,
 S. 0° 02' E., on a true line, bet. secs. 4 and 5.

10.00 Dry wash, 25 lks. wide, 2 ft. banks, course SE.
 31.50 Dry wash, 25 lks. wide, 2 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 5 on W. half;
 $\frac{1}{4}$ 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, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor.

49.00 Dry wash, 30 lks. wide, 2 ft. banks, course SE.
 78.00 Dry wash, 50 lks. wide, 5 ft. banks, course S. 75° E.
 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 5 S S 5 in NW.,
 R 16 W S 4 in NE.,

Chains.

S 9 in SE., and
 S 8 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.
 July 9; At this cor. I set off 22°23' N. on decl. arc;
 and at 12h. 6m. 1.m.t., I observe the sun on the meridian;
 the resulting latitude is 33°01' N.
 Land, level, cut up by wide shallow washes, course SE.
 Soil, volcanic ash, 3rd rate.
 Timber, palo verde, and ironwood.
 Undergrowth, greasewood brush.

40.00 East, on a random line, bet. secs. 4 and 9.
 Set temp. $\frac{1}{4}$ sec. cor.
 At this cor. at 2h. 0m. p.m., 1.m.t., I set off 33°01' N.
 on the lat. arc; 22°22' N. on decl. arc, and determine
 a meridian with the solar.
 79.98 Continue random line east.
 Intersect cor. of secs. 3, 4, 9 and 10.
 Thence I run,
 West, on a true line, bet. secs. 4 and 9.
 Over level land.
 7.48 Road, brs. NE and SW.
 24.98 Dry wash, 25 lks. wide, 2 ft. banks, course SE.
 39.99 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec. cor. of secs. 4 and 9, with brass
 cap, marked,
 $\frac{1}{4}$ S 4 on N. half; and
 S 9, 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.
 47.98 Dry wash, 30 lks. wide, 3 ft. banks, course SW.
 54.23 Old road, brs. N. and S.
 68.98 Dry wash, 50 lks. wide, 5 ft. banks, course S. 75° E.
 79.98 Cor. of secs. 4, 5, 8 and 9.
 Land, level.
 Soil, volcanic ash, 2nd rate.
 Timber, palo verde.
 Undergrowth, greasewood brush.

July 9, 1913.

July 10, 1913.
 At 8h. 0m. a.m., 1.m.t., I set off 33°01' N. on lat. arc, and
 22°17' N. on decl. arc, and determine a meridian with
 the solar at the cor. of secs. 4, 5, 8 and 9.
 Thence I run,
 S. 0° 02' E., on a true line, bet. secs. 8 and 9.
 10.00 Dry wash, 30 lks. wide, 2 ft. banks, course S. 70° E.
 28.50 Dry wash, 50 lks. wide, 3 ft. banks, course E.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ S 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, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high,
 W. of cor.
 55.50 Dry wash, 50 lks. wide, 5 ft. banks, course east.
 68.90 Dry wash, 30 lks. wide, 8 ft. banks, course E.
 78.00 Dry wash, 50 lks. wide, 5 ft. banks, course east.
 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

West

Chains.

cap, marked

T 5 S S 8 in NW.,
R 16 W S 9 in NE.,
S 16 in SE., and
S 17 in SW. quadrants;
1913 on S. half;

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.

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

Timber, palo verde.

Undergrowth, greasewood brush.

East, on a random line, bet. secs. 9 and 16.

40.00 Set temp. 1/4 sec. cor.

80.00 Intersect N. and S. line, 6 links a S. of cor. of secs. 9, 10,
15 and 16.

July 10: At this corner, I set off 22° 15 1/2' N. on the
decl. arc, and at 12h. 5m. l.m.t., I observe the sun on
the meridian; the resulting latitude is 33° 00' N.

Thence I run,

25.00 S 89° 57' W., on a true line, bet. secs. 9 and 16.

32.00 Dry wash, 30 lks. wide, 3 ft. banks, course N. 85° E.

40.00 Old road, brs. NE. and SW.

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 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 1/2 ft. base, 1 1/2 ft. high,
N. of cor.

60.00 Dry wash, 50 lks. wide, 5 ft. banks, course S. 75° E.

68.00 Old road, brs. N. 50° E. and S. 50° W.

80.00 Cor. of secs. 8, 9, 16 and 17.

Land, level.

Soil, volcanic ash, 2nd rate.

Timber, palo verde and ironwood.

Undergrowth, greasewood brush.

July 10, 1913.

July 17, 1913:

At 9h. 0m., a.m., l.m.t., I set off 33° 00' N. on lat. arc;
21° 15' N. on decl. arc, and determine a meridian with
the solar at the cor. of secs. 8, 9, 16 and 17.

Thence I run,

33.70 S. 0° 02' E., on a true line, bet. secs. 16 and 17.

40.00 Dry wash, 100 lks. wide, 5 ft. banks, course S. 70° E.

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
the ground, for 1/4 sec. cor. of secs. 16 and 17, with
brass cap, marked

1/4 S 17 on W. half;
S 16 on E. half; and
1913 on S. half; from which,

An ironwood, 14 ins. in diam., bears N. 39 1/2° E.,
67 lks. dist., marked 1/4 S 16 B T.

A palo verde, 6 ins. in diam., brs. N. 45° W., 103
lks. dist., marked 1/4 S 17 B T.

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 5 S S 17 in NW.,
R 16 W S 16 in NE.,
S 21 in SE., and
S 20 in SW. quadrants;
1913 on S. half;

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Chains.

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.

Soil, 1st half mile, 3rd rate. Last half mile, 4th rate, rocky and rough.

Timber, scattering palo verde and ironwood.

Undergrowth, scattering greasewood brush.

July 17: At this corner, I set off 21° 13 1/2' N. on the decl. arc, and at 12h. 6m. l.m.t. I observe the sun on the meridian; the resulting lat. is 32° 59' N.

East, on a random line, bet. secs. 16 and 21.

40.00

Set temp. 1/4 sec. cor.

79.98

Intersect N. and S. line, 7 lks. N. of cor. of secs. 15, 16, 21 and 22.

Thence I run,

N. 89° 57' W., on a true line, bet. secs. 16 and 21.

Over level land.

39.99

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor. of secs. 16 and 21, with brass cap, marked,

1/4 S 16 on N. half; and

S 21, 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.

49.98

Leave level, enter rocky land.

79.98

Cor. of secs. 16, 17, 20 and 21.

Land, first 49.98 chs., level. Last 30.00 chs., rough and rocky.

Soil, volcanic ash, 3rd rate, on level.

Scattering palo verde and ironwood; scattering greasewood brush.

July 17, 1913.

July 18, 1913.

At 10h. 0m. a.m., l.m.t., I set off 32° 59' N. on the lat. arc; 21° 04' N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 16, 17, 20 and 21.

Thence I run,

S. 0° 02' E., on a true line, bet. secs. 20 and 21.

6.00

Dry wash, 75 links wide, 5 ft. banks, course S. 70° E.

23.00

Dry wash, 75 lks. wide, 5 ft. banks, course east.

40.00

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor. of secs. 20 and 21, with brass cap, marked

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, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

43.50

Dry wash, 100 lks. wide, 3 ft. banks, course S. 75° E.

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 5 S S 20 in NW.,

R 16 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 1/2 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, rolling.

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20. Subdivision of Township 5 South, Range 16 West.

Chains.

Soil, volcanic ash, 3rd rate.
Timber, scattering palo verde and ironwood.
Scattering greasewood brush.
July 18: At this corner, I set off 21°03' N on the decl. arc, and at 12h.6m. l.m.t., I observe the sun on the meridian; the resulting latitude is 32° 58½' N.

40.00 East, on a random line, bet. secs.21 and 28.
Set temp. ¼ sec.cor.
80.09 Intersect N. and S. line, 7 lks.north of the corner of secs. 21,22,27 and 28.
Thence I run,
13.59 N.89°57' W., on a true line, bet. secs.21 and 28.
20.09 Dry wash, 50 lks.wide, 5 ft. banks, course SE.
20.09 Dry wash, 75 lks.wide, 5 ft. banks, course SE.
40.045 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 N.half; and
S 28, 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.

80.09 Cor.of secs.20,21,28 and 29.
Land, rolling.
Soil, volcanic ash, 3rd rate.
Timber, scattering palo verde and ironwood.
Undergrowth, scattering greasewood brush.
July 18, 1913.

July 23, 1913:
At 8h. 0m. a.m., l.m.t., I set off 32° 58½' N.on the lat. arc; 20°08½' N.on the decl.arc, and determine a meridian with the solar at the cor.of secs.20,21,28 and 29.
Thence I run,
6.50 S°0°02' E., on a true line, bet. secs.28 and 29.
40.00 Dry wash, 75 lks.wide, 5 ft. banks, course east.
Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec.cor.,of secs. 28 and 29, with brass cap, marked,
¼ 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, 3½ ft. base, 1½ ft. high, W'of cor.
55.00 Dry wash, 100 lks.wide, 5 ft. banks, course S.80°E.
80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor.of secs. 28,29,32 and 33, with brass cap, marked,
T 5 S S 29 in NW.,
R 16 W S 28 in NE.,
S 33 in SE., and
S 32 in SW. quadrants,
1913 on S.half; from which,
A palo verde, 8 ins. in diam., brs.S.11°07'W.,
213 lks.dist., marked T 5 S R 16 W S 32 B T.
An ironwood, 10 ins. in diam., brs.S.38½°E.,
246 lks.dist., marked T 5 S R 16 W S 33 B T.
No other trees within 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, rolling.
Soil, volcanic ash, 3rd rate, gravel surface.
Timber, palo verde and ironwood.
Undergrowth, greasewood brush.

Subdivision of Township 5 South, Range 16 West. 21.

Chains.	
40.00	East, on a random line, bet. secs. 28 and 33. Set temp. $\frac{1}{4}$ sec. cor. July 23: At this point, I set off $20^{\circ}06'N.$ on the decl. arc, and at 12h. 6m. l.m.t., I observe the sun on the meridian; the resulting latitude is $32^{\circ}57\frac{1}{2}'N.$ Continue random line, east.
80.01	Intersect N. and S. line, 12 lks. N. of cor. of secs. 27, 28, 33 and 34. Thence I run,
40.005	N. $89^{\circ}55'W.$, on a true line, bet. secs. 28 and 33. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 28 and 33, with brass cap, marked, $\frac{1}{4}$ S 28 on N. half; and S 33, 1913 on S. half; from which, An ironwood, 10 ins. in diam., bears N. $6^{\circ}10'E.$, 88 lks. dist., marked $\frac{1}{4}$ S 28 B T. A palo verde, 8 ins. in diam., brs. S. $55\frac{3}{4}^{\circ}W.$, 121 lks. dist., marked $\frac{1}{4}$ S 33 B T.
42.01	Dry wash, 100 lks. wide, 5 ft. banks, course S. $70^{\circ}E.$
80.01	Cor. of secs. 28, 29, 32 and 33. Land, rolling. Soil, volcanic ash, 2nd rate, gravel surface. Timber palo verde and ironwood. Undergrowth, greasewood brush.

40.00	S. $0^{\circ}02'E.$, on a random line, bet. secs. 32 and 33. Set temp. $\frac{1}{4}$ sec. cor.
84.42	Intersect south bdy. of Tp. (1st. Standard Parallel South) 6 lks. N. $89^{\circ}54'E.$ of the standard cor. of secs. 32 and 33, recently reestablished by W.H. Thorn, as described in Book "C." Thence I run,
14.42	N. $0^{\circ}1'E.$, on a true line, bet. secs. 32 and 33.
25.42	Ravine, 100 lks. wide, 10 ft. deep, course SE.
31.42	Road brs. NW. and SE.
44.42	Ravine, 75 lks. wide, 8 ft. deep, course SE. Set an iron post, 3 ft. long, 11 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 32 and 33, with brass cap, marked $\frac{1}{4}$ S 32 on W. half; S 33 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.
71.42	Road brs. NW. and SE.
84.42	Cor. of secs. 28, 29, 32 and 33. Land, level, cut up by ravines, course SE. Soil, volcanic ash, 3rd rate, gravel surface. Timber, palo verde and ironwood. Greasewood brush.

	July 23, 1913.
	July 11, 1913: At 10h. 0m. a.m. l.m.t., I set off $33^{\circ}01\frac{1}{2}'N.$ on the lat. arc; $22^{\circ}08\frac{1}{2}'N.$ on decl. arc, and determine a meridian with the solar at the cor. of secs. 5, 6, 31 and 32, on the north bdy. of the Tp., established by me, as described in Book "A." Thence I run, S. $0^{\circ}03'E.$, on a true line, bet. secs. 5 and 6.
.10	Dry wash, 25 lks. wide, 3 ft. banks, course east.
11.00	Dry wash, 50 lks. wide, 3 ft. banks, course east.
32.00	Dry wash, 50 lks. wide, 3 ft. banks, course N. $80^{\circ}E.$
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in

22. Subdivision of Township 5 South, Range 16 West.

Chains.

the ground, for $\frac{1}{4}$ sec.cor.of secs. 5 and 6, with brass cap, marked,
 $\frac{1}{4}$ S 6 on W.half;
 S 5 on E.half;
 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.
 52.50 Dry wash, 30 lks.wide, 3 ft. banks, course S.70°E.
 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 5 S S 6 in NW.,
 R 16 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,W.of cor.
 Land,level.
 Soil, volcanic ash, 3rd rate, gravel surface.
 Timber, palo verde and ironwood.
 Greasewood brush.

40.00 East, on a random line, bet. secs.5 and 8.
 Set temp. $\frac{1}{4}$ sec.cor.
 79.92 Intersect N.and S. line, 4 links N.of cor.of secs.4,5, 8 and 9.
 Thence I run,
 N.89°58'W., on a true line, bet. secs.5 and 8.
 17.92 Dry wash, 75 lks.wide, 8 ft.banks, course SE.
 39.96 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor.of secs. 5 and 8,, with brass cap,marked
 $\frac{1}{4}$ S 5 on N.half; and
 S 8, 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.
 49.92 Dry wash, 75 lks.wide, 5 ft. banks, course SE.
 72.92 Dry wash,75 links wide, 8 ft. banks, course SE.
 79.92 Cor.of secs.5,6,7 and 8/
 Land,level.
 Soil, volcanic ash, 3rd rate, gravel surface.
 Palo verde and ironwood timber.
 Greasewood brush.
 July 11: At this cor., I set off 22°07 $\frac{1}{2}$ 'N.on decl. arc; and 12h.5m.l.m.t., I observe the sun on the meridian; the resulting lat.is 33° 01' N.

40.00 West, on a random line, bet. secs.6 and 7.
 Set temp. $\frac{1}{4}$ sec.cor.
 80.74 Intersect cor.of secs.1,6,7 and 12, on west bdy.of Tp., established by W.H.Thorn, U.S.Surveyor, as described in Book "B."
 Thence I run,
 East, on a true line, bet. secs.6 and 7.
 Ascend steep rocky west slope.
 15.74 Top of ridge, brs.NW. and SE.
 Descend SE. slope.
 37.74 Bottom of descent.
 40.74 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor.of secs.6 and 7, with brass cap, marked

Subdivision of Township 5 South, Range 16 West. 23.

Chains.

$\frac{1}{2}$ S 6 on N. half; and
 S 7 1913 on S. half; Pits impracticable.
 Raise a mound of stone, 4 ft. base, 3 ft. high, N. of cor.
 Ascend west slope.
 44.24 Top of ascent.
 Descend NE. slope.
 53.74 Foot of descent.
 Thence over level land.
 62.74 Dry wash, 30 lks. wide, 3 ft. banks, course SE.
 75.74 Dry wash, 25 lks. wide, 2 ft. banks, course SE.
 80.74 Cor. of secs. 5, 6, 7 and 8.
 Land, first 53.74 chs. rough and broken.
 Last, 27.00 chs., nearly level; 3rd class soil, volcanic ash.
 Scattering palo verde; ironwood timber and greasewood brush in the last 27.00 chains.
 July 11, 1913.

July 12, 1913.
 At 10h. 0m. a.m., l.m.t., I set off $33^{\circ}01'$ N. on the lat. arc; $22^{\circ}00\frac{1}{2}'$ N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 5, 6, 7 and 8.
 Thence I run,
 S. $0^{\circ}03'E.$, on a true line, bet. secs. 7 and 8.
 Over rolling land.
 12.00 Dry wash, 50 lks. wide, 5 ft. banks, course SE.
 15.00 Old 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., of secs. 7 and 8, with brass cap, marked,
 $\frac{1}{2}$ S 7 on W. half;
 S 8 on E. half; and
 1913 on S. half; from which,
 An ironwood, 5 ins. in diam., brs. S. $19\frac{1}{2}^{\circ}W.$, 83 lks. dist., marked $\frac{1}{2}$ S 7 B T.
 A palo verde, 5 ins. in diam., bears S. $60\frac{3}{4}^{\circ}E.$, 169 lks. dist., marked $\frac{1}{2}$ S 8 B T.
 79.00 Dry wash, 50 links wide, 5 ft. banks, course SE.
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in ground, with a mound of stone, 4 ft. base, $1\frac{1}{2}$ ft. high, around post, for cor. of secs. 7, 8, 17 and 18, with brass cap, marked
 T 5 S S 7 in NW.,
 R 16 W S 8 in NE.,
 S 17 in SE., and
 S 18 in SW. quadrants;
 1913 on S. half; pits impracticable.
 Raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.; from which,
 An ironwood, 12 ins. in diam., bears N. $56^{\circ}E.$, 103 lks. dist., marked T 5 S R 16 W S 8 B T.
 A palo verde, 8 ins. in diam., bears N. $8\frac{1}{2}^{\circ}W.$, 28 lks. dist., marked T 5 S R 16 W S 7 B T.
 No other trees within limits.
 July 12: At this corner, I set off $21^{\circ}59\frac{1}{2}'$ N. on the decl. arc. and at 12h. 5m. l.m.t., I observe the sun on the meridian; the resulting lat. is $33^{\circ}00'$ N.
 Land, rolling.
 Soil, volcanic ash, 3rd rate, badly cut up by numerous small washes.
 Timber, palo verde and ironwood.
 Greasewood brush undergrowth.

40.00 East, on a random line, bet. secs. 8 and 17.
 Set temp. $\frac{1}{4}$ sec. cor.

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Chains

- 79.96 Intersect N. and S. line, 7 lks. N. of cor. of secs. 8, 9, 16 and 17.
Thence I run,
N. $89^{\circ}57'$ W., on a true line, bet. secs. 8 and 17.
- 39.98 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., of secs. 8 and 17, with brass cap, marked
 $\frac{1}{4}$ 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, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, north of cor.
- 64.96 Dry wash, 75 lks. wide, 5 ft. banks, course SE.
73.96 Dry wash, 50 lks. wide, 5 ft. banks, course SE.
79.96 Cor. of secs. 7, 8, 17 and 18.
Land, rolling.
Soil, volcanic ash, 3rd rate, gravel surface, cut by numerous small washes.
Timber, palo verde and ironwood.
Greasewood brush; undergrowth.
July 12, 1913.
-
- July 24, 1913:
At 9h. 0m. a.m., l.m.t., I set off $33^{\circ}00'$ N. on lat. arc; $19^{\circ}55\frac{1}{2}'$ N. on decl. arc, and determine a meridian with the solar, at the cor. of secs. 7, 8, 17 and 18.
Thence I run,
West, on a random line, bet. secs. 7 and 18.
- 40.00 Set temp. $\frac{1}{4}$ sec. corner.
80.75 Intersect west bdy. of Tp., 6 links south 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,
S $89^{\circ}57'$ E., on a true line, bet. secs. 7 and 18.
- 19.75 Dry wash, 75 lks. wide, 10 ft. banks, course NE.
40.75 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., of secs. 7 and 18, 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.
- 80.75 Cor. of secs. 7, 8, 17 and 18.
Land, level and rolling.
Soil, volcanic ash, covered with malpais boulders, 4th rate.
Timber, few palo verde and ironwood.
Undergrowth, scattering greasewood brush.
-
- S $0^{\circ}03'$ E., on a true line, bet. secs. 17 and 18.
Entire mile is rolling and badly cut up with ravines running east; ravines are small.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., of secs. 17 and 18, with brass cap, marked
 $\frac{1}{4}$ S 18 on W. half;
S 17 on E. half; and
1913 on S. half; from which,
An ironwood, 8 ins. in diam., brs. N. $24\frac{1}{2}^{\circ}$ E., 121 lks. dist., marked $\frac{1}{4}$ S 18 B T.
An ironwood, 20 ins. in diam., bears N. 31° E., 172 lks. dist., marked $\frac{1}{4}$ S 17 B T.
- 65.00 Ravine, 150 lks. wide, 25 ft. deep, course SE.

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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 5 S S 18 in NW.,
 R 16 W S 17 in NE.,
 S 20 in SE., and
 S 19 in SW. quadrants;
 1913 on S. half; from which,
 A palo verde, 6 ins. in diam., brs. N. 10 $\frac{1}{2}$ ° E.,
 217 links dist., marked T 5 S R 16 W S 17 B T.
 A palo verde, 7 ins. in diam., brs. S. 25 $\frac{1}{2}$ ° E., 221
 lks. dist., marked T 5 S R 16 W S 20 B T.
 A palo verde, 6 ins. in diam., brs. S. 33 $\frac{1}{2}$ ° W., 100
 lks. dist., marked T 5 S R 16 W S 19 B T.
 An ironwood, 8 ins. in diam., brs. N. 38 $\frac{1}{2}$ ° W., 208
 lks. dist., marked T 5 S R 16 W S 18 B T.

Land, rolling and cut up by ravines (small) course SE.
 Soil, volcanic ash, 3rd rate, gravel surface.
 Timber, scattering palo verde and ironwood.
 Undergrowth, scattering greasewood brush.
 July 24: At this corner I set off 19° 53 $\frac{1}{2}$ ' N. on decl.
 arc; and at 12h. 6m. l.m.t., I observe the sun on the
 meridian; the resulting latitude is 32° 59' N.

40.00 East, on a random line, between secs. 17 and 20.
 Set temp. $\frac{1}{4}$ sec. cor.

80.01 Intersect cor. of secs. 16, 17, 20 and 21.
 Thence I run,
 West, on a true line, bet. secs. 17 and 20.

18.01 Old road brs. NW. and SE.

40.005 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 17 and 20, with brass cap, marked,
 $\frac{1}{4}$ S 17 on N. half; and
 S 20, 1913 on S. half; from which,
 A palo verde, 12 ins. in diam., bears S. 20°
 5' W., 136 lks. dist., marked $\frac{1}{4}$ S 20 B T.
 An ironwood, 5 ins. in diam., brs. N. 77 $\frac{3}{4}$ ° W., 220
 lks. dist., marked $\frac{1}{4}$ S 17 B T.

70.01 A ravine, 150 lks. wide, 25 ft. deep, course SE.

80.01 Cor. of secs. 17, 18, 19 and 20.
 Land, rolling, cut up by numerous ravines, course SE.
 Soil, volcanic ash, 3rd rate, gravel surface.
 Timber, scattering palo verde and ironwood.
 Undergrowth, scattering greasewood brush.
 July 24, 1913.

July 25, 1913:
 At 9h. 0m. a.m. l.m.t., I set off 32° 59 $\frac{1}{2}$ ' N. on the lat.
 arc; 19° 42 $\frac{1}{2}$ ' N. on the decl. arc, and determine a meri-
 dian 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.

80.73 Intersect the cor. of secs. 13, 18, 19 and 24, on west bdy.
 of the township, established by W. H. Thorn, U.S. Sur-
 veyor, as described in Book "B."
 Thence I run,
 East, on a true line, bet. secs. 18 and 19.
 Over rough and broken rocky hills.

37.73 Ravine, 200 lks. wide, 25 ft. deep, course SE.

40.73 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec. cor. of secs. 18 and 19, with

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Chains.

- brass cap, marked,
 $\frac{1}{4}$ S 18 on N. half;
 S 19, 1913 on S. half; Pits impracticable.
 Raise a mound of stone, 4 ft. base, 3 ft. high, N. of cor.
 45.73 Bottom of hill; ascend SW. slope.
 66.13 Top of hill brs. E. and S. and W.
 66.23 Descend NE. slope.
 75.73 Foot of descent.
 80.73 Cor. of secs. 17, 18, 19 and 20.
 Land, mountainous, covered with malpais boulders.
 Soil, 4th rate.
 A very little palo verde and ironwood timber, and grease-
 wood brush.
-
- 20.00 S. $0^{\circ} 03'$ E., on a true line, bet. secs. 19 and 20.
 Dry wash, 500 lks. wide, shallow, course S. 70° 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 19 on W. half; and
 S 20 on E. half; and
 1913 on S. half;
 dig pits, 18x18x18x12 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.
 July 25: At this corner, I set off $19^{\circ} 41'$ N. on decl. arc;
 and at 12h. 6m. l.m.t., I observe the sun on the meri-
 dian; the resulting lat. is $32^{\circ} 58\frac{1}{2}'$ N.
 57.00 Ascend rocky slope, NE.
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in
 a mound of stone, 4 ft. base, $2\frac{1}{2}$ ft. high, for cor. of
 secs. 19, 20, 29 and 30, with brass cap, marked
 T 5 S S 19 in NW.,
 R 16 W S 20 in NE.,
 S 29 in SE., and
 S 30 in SW. quadrants,
 1913 on S. half; pits impracticable.
 raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.
 Land, first half mile, volcanic ash, 3rd rate. Last half
 mile, hills, covered with malpais boulders.
 Timber, scattering palo verde and ironwood.
 Scattering greasewood brush.
-
- 40.00 East, on a random line, bet. secs. 20 and 29.
 Set temp. $\frac{1}{4}$ sec. cor.
 79.96 Intersect N. and S. line, 2 lks. S. of cor. of secs. 20, 21, 28
 and 29.
 Thence I run,
 S. $89^{\circ} 59'$ W., on a true line, bet. secs. 20 and 29.
 17.96 A ravine, 150 lks. wide, 20 ft. deep, course SE.
 28.96 Wagon road, brs. N. and S.
 39.98 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec. cor. of secs. 20 and 29, with
 brass cap, marked
 $\frac{1}{4}$ S 20 on N. half; and
 S 29, 1913 on S. half;
 dig pits 18x18x2 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.
 43.96 Foot of ascent.
 Ascend rocky NE. slope.
 49.96 Top of ascent.
 51.96 Descend rocky west slope.
 59.96 Foot of rocky west slope.
 69.96 Ascend rocky east slope to cor.

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79.96 Cor. of secs. 19, 20, 29 and 30. First half mile, rolling. Last half, rocky hills, 4th rate, soil. Very few palo verde and ironwood timber; greasewood brush. July 25, 1913.

July 26, 1913: At 10h. 0m. a.m., 1.m.t., I set off 32°58' N. on lat. arc; 19°29' N. on decl. arc, and determine a meridian with the solar at the cor. of secs. 19, 20, 29 and 30.

40.00 Thence I run, West, on a random line, bet. secs. 19 and 30. Set temp. 1/4 sec. cor. 80.74 Intersect west bdy. of Tp., 16 lks. S. of cor. of secs. 19, 24, 25 and 30, established by W.H. Thorn, U.S. Surveyor, as described in Book "B."

26.74 Thence I run, S. 89°53' E., on a true line, bet. secs. 19 and 30. Dry wash, 100 lks. wide, 10 ft. banks, course S. 70° E. 29.74 Road brs. NW. and SE. 40.74 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor., of secs. 19 and 30, with brass cap, marked

1/4 S 19 on N. half; and S 30, 1913 on S. half; from which, An ironwood, 8 ins. in diam., bears N. 41 3/4° E., 65 lks. dist., marked 1/4 S 19 B T. No other trees within limits. Dig pits 18x18x12 ins., E. and W. of cor., 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

71.74 Leave level; ascend SW. slope. 77.99 Top of ascent; descend east slope to corner. 80.74 Cor. of secs. 19, 20, 29 and 30. Land, hilly. Soil, volcanic ash, 4th rate. A little palo verde and ironwood timber, scattering greasewood brush.

1.50 S. 0°03' E., on a true line, bet. secs. 29 and 30. Top of hill. 2.00 Descend rocky south slope. 5.00 Foot of descent; draw, course SE. 14.00 Wash, 100 lks. wide, 3 ft. banks, course east. 18.00 Road brs. NW. and SE. 20.00 Ascend slope to NE. 25.00 Top of ascent; thence along east slope. 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in a mound of stone 4 ft. base, 2 1/2 ft. high, for 1/4 sec. cor. of secs. 29 and 30, with brass cap, marked

1/4 S 30 on W. half; S 29 on E. half, and 1913 on S. half; pits impracticable. Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

41.00 Descend SE. slope. 50.00 Foot of descent; thence over rolling land. 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 5 S S 30 in NW., R 16 W S 29 in NE., S 32 in SE., and S 31 in SW. quadrants; 1913 on S. half; from which, A palo verde, 10 ins. in diam. brs. S. 50° W., 234 lks. dist., marked T 5 S R 16 W S 31 B T.

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Chains.

A palo verde, 12 ins. in diam., bears N. $81\frac{1}{2}^{\circ}$ W., 187 lks. dist., marked T 5 S R 16 W S 30 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, first 50.00 chs., hilly. Last 30.00 chs. rolling; whole mile covered with malpais boulders; 4th rate soil. Timber, scattering palo verde. and ironwood. Scattering greasewood brush. July 26: At this corner I set off $19^{\circ}28'$ N. on decl. arc; and at 12h. 6m. l.m.t., I observe the sun on the meridian; the resulting latitude is $32^{\circ}57\frac{1}{2}'$ N.

40.00 East, on a random line, bet. secs. 29 and 32.
79.92 Set temp. $\frac{1}{4}$ sec. cor.
Intersect N and S. line, 5 lks. south of the corner of secs. 28, 29, 32 and 33. Thence I run, S. $89^{\circ}58'$ W., on a true line, bet. secs. 29 and 32. 16.92 Old road brs. NW and SE.
19.92 Dry wash, 75 lks. wide. 5 ft. banks, course SE.
36.92 Old road brs. N. and S.
39.96 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs 29 and 32, 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. 79.92 Cor. of secs. 29, 30, 31 and 32. Land, rolling. Soil, volcanic ash, 3rd rate, gravel surface. Scattering palo verde and ironwood. Scattering greasewood brush. July 26, 1913.

July 28, 1913:
At 10h. 0m. a.m., l.m.t., I set off $32^{\circ}57\frac{1}{2}'$ N. on lat. arc; $19^{\circ}02'$ N. on decl. arc, and determine a meridian with the solar, at the cor. of secw. 29, 30, 31 and 32. Thence I run, West, on a random line, bet. secs. 30 and 31. 40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.84 Intersect west bdy. of Tp., 2 lks. south of cor. of secs. 25, 30, 31 and 36, established by W. H. Thorn, U.S. Surveyor, as described in Book "B." Thence I run, S. $89^{\circ}59'$ E., on a true line, bet. secs. 30 and 31. Ascend rocky, broken NW. slope. 8.00 Change to steep NE. slope, on north end of mountain.
36.00 Descend gradually.
40.84 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., of secs. 30 and 31, with brass cap, marked $\frac{1}{4}$ S 30 on N. half; and S 31 1913. on S. half; from which, A palo verde, 5 ins. in diam., brs. N. $46\frac{1}{2}^{\circ}$ E., 160 lks. dist., marked $\frac{1}{4}$ S 30 B T. A palo verde, 8 ins. in diam., brs. S. $40\frac{1}{2}^{\circ}$ W., 236 lks. dist., marked $\frac{1}{4}$ S 31 B T. 45.00 Foot of descent in draw, course SE. Ascend rocky rough SW. slope.
53.00 Top of ascent.

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70.00 Descend over rough rocky east slope.
 Foot of descent.
 77.00 Dry wash, 100 lks. wide, 8 ft. banks, course south.
 80.84 Cor. of secs. 29, 30, 31 and 32.
 Land, rough and broken, covered with malpais boulders.
 Soil, 4th rate.
 A few palo verde and ironwood; scattering greasewood brush.
 July 28. At 12h. 6m. 1.m.t., I set off 19° 01' N. on decl.
 arc; at the cor. of secs. 29, 30, 31 and 32, and observe
 the sun on the meridian; the resulting latitude is 32°
 57½' N.

40.00 S. 0° 03' E., on a random line, bet. secs. 31 and 32.
 Set temp. ¼ sec. cor.
 84.65 Intersect south bdy. of Tp. (1st. Standard Parallel S.) 10
 lks. N. 89° 54' E. of the standard cor. of secs. 31 and 32,
 reestablished by W.H. Thorn, as described in Book "C."
 Thence I run,
 44.65 N. 0° 01' E., on a true line, bet. secs. 31 and 32.
 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 31 in W. half;
 S 32 on E. half; and
 1913 on S. half; pits impracticable.
 Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
 58.00 Ascend hill, over south slope.
 63.00 Top of hill.
 Descend over north slope.
 67.00 Foot of descent.
 74.00 Wash, 100 lks. wide, 8 ft. banks, course east.
 84.65 Cor. of secs. 29, 30, 31 and 32.
 Land, first half mile, over level land; a few palo verde
 and ironwood trees and greasewood brush.
 Last half mile over east slope of mountains, malpais
 boulders.

July 28, 1913.

GENERAL DESCRIPTION.

This township is rough in the western half, being mountainous along the west tier of sections; cut up by washes. This part of the township is worthless, as far as agriculture is concerned. The eastern half is more level; the washes are not as deep, and the soil is better rate. A good deal of the ironwood timber has been cut off, but palo verde and some mesquite grow along the washes. There is very little native grass growing in this township. There are no houses or building of any kind in this township, and no settlers or homesteaders. There is not any water to be had anywhere. Many of the washes come together and branch again, making a network of washes throughout the township.

Note: At every set up a meridian was determined with the solar.

H. A. Dismuff.
 U. S. Transitman.

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BOOK 2699

For FINAL OATH OF UNITED STATES ~~CONVEYOR AND~~
TRANSITMAN

see book "L" (subdivision of T.5S. 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 Arizona DECEMBER 1, 1914

The foregoing field notes of the survey of _____
the subdivision lines of
TOWNSHIP N° 5 SOUTH, RANGE N° 16 WEST
of the Gila and Salt River Meridian, in the State of Arizona.

executed by *W.K. KIERULFF, U.S. Transitman*
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.~~