

2703

Book "J."
Subdivisions

BOOK 2703

FIELD NOTES

OF THE SURVEY OF THE

Subdivision lines of

Township 4 South, Range 14 West,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

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

and

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

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

Survey commenced September 9, 1913.

Survey completed September 20, 1913.

BOOK 2703

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Township 4 South, Range 14 West.

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- Book "A"
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Subdivision of Township 4 South, Range 14 West.

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Chains.

- Survey commenced Sept. 9, 1913, and executed with a Young and Sons' 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 arc, which is also the least count of the latitude and declination arcs; both transit and solar apparatus in good adjustment.
- At 9h.0m. a.m., l.m.t., I set off $33^{\circ} 01\frac{1}{2}'$ N. on lat. arc; and $5^{\circ} 24'$ 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 township, 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.
 Ascend over steep south slope, over large boulders.
- 14.00 Change to NE. slope.
 30.00 Change to S. slope.
 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 35 on W. half;
 S 36 on E. half; and
 1913 on S. half; pits impracticable.
 Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high around post. Raise a mound of stone 4 ft. base, $2\frac{1}{2}$ ft. high, W. of cor.
- 48.00 Top of ridge, brs. N. 10° E. and S. 10° W.
 Thence over NW. slope, and large boulders.
- 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 4 S S 26 in NW.,
 R 14 W S 25 in NE.,
 S 36 in SE., and
 S 35 in SW. quadrants;
 1913 on S. half;
 pits impracticable. Raise a mound of stone 4 ft. base, $2\frac{1}{2}$ ft. high, W. of cor.
 Land, mountainous 80.00 chs.
 No soil, volcanic rock.
-
- East, on a random line, bet. secs. 25 and 36.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.00 Intersect east bdy of the township, 5 lks. N. of cor. of secs. 25, 30, 31 and 36, established by me, as described in Book "B."
- Thence I run,
 N. $89^{\circ} 58'$ W., on a true line, bet. secs. 25 and 36.
 Over large volcanic rocks.
- 12.50 Wash, 100 lks. wide, 5 ft. banks, course north.
 15.00 Wash, 150 lks. wide, 5 ft. banks, course north.
 18.00 Wash, 60 lks. wide, 4 ft. banks, course N. 10° E.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground; could not set deeper for solid rock, for $\frac{1}{4}$ sec. cor., with brass cap, marked,
 $\frac{1}{4}$ S 25 on N. half; and
 S 36, 1913 on S. half;
 pits impracticable. Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high around post. Raise a mound of stone 3 ft. base, 2 ft. high, N. of cor.
- 62.30 Wash, 40 lks. wide, 2 ft. deep, course N. 15° E.
 63.68 Top of low ridge, brs. N. 30° E. and S. 30° W.
 74.50 Wash, 10 lks. wide, course N. 30° E.
 75.10 Top of low ridge, brs. N. and S. Descend to cor.
 80.00 Cor. of secs. 25, 26, 35 and 36.
 Land, rough and broken; surface covered with volcanic boulders. No soil.

BOOK 2703

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

Chains,	
	<p>Note: At the cor. of secs. 25, 26, 35 and 36, I set off 5° 20' N. on decl. arc, and at noon, observe the sun on the meridian; the resulting lat. is 33° 02½' N.</p> <p>Thence I run, N. 0° 01' W., on a true line, bet. secs. 25 and 26.</p>
18.80	Over gradual NW. slope, over large volcanic boulders. Wash, 120 lks. wide, 2 ft. deep, course N. 30° E.
40.00	Thence along gradual NE. slope. Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground, for ¼ sec. cor., with brass cap, marked ¼ S 26 on W. half; S 25 on E. half; and 1913 on S. half; pits impracticable. Solid rock, so could not set post to proper depth. Raise a mound of stone 2 ft. base, 1 ft. high around post. Raise a mound of stone 4 ft. base, 2 ft. high, W. of cor.
62.74	Wash, 100 lks. wide, 6 ft. banks, course N. 30° E.
75.10	Wash, 200 lks. wide, 6 ft. banks, course east. Heavy timber along banks.
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in the ground, (could not set deeper for solid rock) for cor. of secs. 23, 24, 25 and 26, with brass cap, marked T 4 S S 23 in NW. R 14 W S 24 in NE., S 25 in SE., and S 26 in SW. quadrants; 1913 on S. half; from which A mesquite, 8 ins. in diam., brs. N. 30° E., 96 lks. dist., marked T 4 S R 14 W S 24 B T. A palo verde, 10 ins. in diam., brs. S. 84° E., 176 lks. dist., marked T 4 S R 14 W S 25 B T. A mesquite, 8 ins. in diam., brs. S. 48° 30' W., 268 links dist., marked T 4 S R 14 W S 26 B T. A palo verde, 10 ins. in diam., brs. N. 28° 30' W., 65 links dist., marked T 4 S R 14 W S 23 B T. Raise a mound of stone 2 ft. base, 1 ft. high around post. Land, rough and broken, volcanic boulders. Palo verde, ironwood and mesquite timber along washes. Scattering greasewood brush and giant cactus. Very little soil.
40.00	S. 89° 58' E. on a random line, bet. secs. 24 and 25. Set temp. ¼ sec. cor.
79.95	Intersect the east bdy of the Tp. at the cor. of secs. 19, 24, 25 and 30, established by me, as described in Book "B."
16.50	Thence I run, N. 89° 58' W., on a true line, bet. secs. 24 and 25. Over volcanic rock boulders; scattering greasewood.
33.00	Enter wash, from west to N. 80° E., 200 lks. wide, 6 ft. banks.
39.975	Leave wash, from S. 80° W. to east, Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in the ground (solid rock could not set deeper) for ¼ sec. cor., with brass cap, marked, ¼ S 24 on N. half; and S 25, 1913 on S. half; from which, A palo verde, 8 ins. in diam., brs. S. 12° E., 144 lks. dist., marked ¼ S 25 B T. A palo verde, 4 ins. in diam., brs. N. 49° W., 58 lks. dist., marked ¼ S 24 B T.
55.00	Enter same wash from west to S. 80° E.
72.60	Leave same wash from S. 80° W. to east.
79.95	Cor. of secs. 23, 24, 25 and 26. Land, nearly level. Adobe soil, covered with boulders. Heavy timber; palo verde ironwood; mesquite along big wash.

Subdivision of Township 4 Souty, Range 14 West. 3.

Chains.

N.0° 01' W., on a true line, bet. secs.23 and 24.
 4.00 Wash, 120 lks.wide, 3 ft.banks, course S.80°E.
 10.00 Wash, 15 lks.wide, course SE.
 13.00 Leave bottom land, thence over boulders, 6 to 12 ins. in diam.,
 36.30 Wagon road brs.N.60°W. and S.60°E.
 40.00 Set an iron post 3 ft.long, 1 in. in diam., 18 ins. in the ground (could not set deeper for solid rock) 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; pits impracticable.
 Raise a mound of stone 2 ft.base, 1 ft. high around post.
 Raise a mound of stone 4 ft.base, 2 ft.high, west of corner.
 45.00 Wash, 200 lkswide, 3 ft.banks, course S.40°E.
 59.00 Shallow wash, 150 lks.wide, 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.13,14,23 and 24, with brass cap, marked
 T 4 S S 14 in NW.,
 R 14 W S 13 in NE.,
 S 24 in SE., and
 S 23 in SW. quadrants;
 1913 on S.half; from which,
 A palo verde, 6 ins. in diam., brs.S.5°30'E.,117 lks.dist., marked T 4 S R 14 W S 24 B T.
 An ironwood, 12 ins. in diam., brs.S.59°30'W., 106 lks.dist., marked T 4 S R 14 W S 23 B T.
 No other trees in limits. Pits impracticable.
 Raise a mound of stone 4 ft.base, 2 ft.high, W.of cor.
 Land, level adobe; soil, 13.00 chs. Rolling, covered with boulders, 67.00 chs.
 Ironwood and palo verde along washes.
 Sept. 9, 1913.

Sept.9, 1913: At 8h. 19m. p.m.,l.m.t., in camp,in SE. $\frac{1}{4}$ of sec. 24, T.4 S., R.14 W., I observe Polaris at eastern elongation, and mark the line thus determined on a peg driven in the ground, 5 chains north of my station.

Sept.10, 1913: At 7h.30m. a.m.,l.m.t., I lay off the azimuth of Polaris, 1°22'5" to the west, and mark the line thus determined by a tack in a wooden plug 5 chs.N.of my station.

At 8h.0m. a.m.,l.m.t., I set off 33°04' N.on the lat.arc, and 5°02'N. on decl.arc, and determine a meridian with the solar. The meridian thus obtained falls .05 of an inch west of the point established by Polaris equal to 26" of an arc.

I conclude that the adjustment of the instrument is satisfactory.

At 9h.0m. a.m.,l.m.t., I set off 33° 04 $\frac{1}{2}$ ' N.on the lat. arc, and 5°01'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.13,14,23 and 24.

Thence I run, S.89°58'E., on a random line, bet. secs.13 and 24.

40.00

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

79.98

Fall 4 lks.south of the cor.of secs.13,18,19 and 24, on the east bdyof the Tp., established by me, as described in Book "B"

Thence I run,

West, on a true line, bet. secs.13 and 24.

Over stony surface, and scattering greasewood brush.

7.50

Wash, 20 lks.wide, course S.40°E.

27.60

Wash, 30 links wide, 5 ft. deep, course south.

30.80

Wash, 25 lks.wide, course S.30° E.

39.99

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

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

Chains.

60.90 the ground for $\frac{1}{4}$ sec.cor.,with brass cap,marked
 79.98 $\frac{1}{4}$ S 13 on N.half; and
 S 24, 1913 on S.half; pits impracticable.
 Raise a mound of stone, 3 ft.base, 2 ft.high, N.of cor.
 Wash, 160 lks.wide, course S.40°E., 6 ft. banks.
 Cor.of secs.13,14,23 and 24.
 Land, stony surface, volcanic rock. Palo verde and iron-
 wood along washes.

11.20 N.0°01' W., on a true line, bet. secs.13 and 14,
 Over nearly level land, stony surface.
 40.00 Wash, 160 lks.wide, 6 ft.banks, course S.35°E.
 Set an iron post 3 ft long, 1 in. in diam., 12 ins. in
 the ground (could not set deeper for solid rock) 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; pits impracticable.
 Raise a mound of stone 2 ft.base, 1 ft. high around
 post.
 40.40 Raise a mound of stone 4 ft.base, 3 ft.high, W.of cor.
 50.90 Wash, 25 lks.wide, 2 f. deep, course S.40°E.
 80.00 Wash, 20 lks.wide, 2 ft. deep, course S.30°E.
 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 14 W S 12 in NE.,
 S 13 in SE., and
 S 14 in SW. quadrants;
 1913 on S.half; from which,
 A palo verde, 12 ins. in diam., brs. S.89°45'
 E., 149 lks.dist., marked T 4 S R 14 W S 13
 B T.
 No other tree in limit. Pits impracticable.
 Raise a mound of stone 4 ft.base, 3 ft.high, W.of cor.
 Land, nearly level. Stony surface of volcanic rock.
 Palo verde timber along washes. Giant cactus.

Note: At the cor.of secs.11,12,13 and 14, I set off 4°
 58' N. on decl.arc, and at noon, observe the sun on
 the meridian; the resulting latitude is 33° 05' N.
 Thence I run,
 40.00 East, on a random line, bet. secs.12 and 13.
 79.98 Set temp. $\frac{1}{4}$ sec.cor.
 Intersect east bdy.of the Tp., 12 lks.S' of the cor.of secs.
 7,12,13 and 18, established by me, as described in
 Book "B."
 Thence I run,
 S.89°55' W., on a true line, bet. secs.12 and 13.
 Over stony surface.
 11.00 Wash, 120 lks.wide, 5 ft.banks, course S.40° E.
 17.60 Wash, 60 lks.wide, 4 ft. banks, course S.40° E.
 39.99 Set an iron post 3 ft.long, 1 in. in diam., 12 ins. in
 the ground (could not set deeper for solid rock) 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;
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, around
 post; from which,
 A palo verde, 8 ins. in diam., bears S.74°W., 42
 lks.dist., marked $\frac{1}{4}$ S 13 B T.
 No other tree in limits. Pits impracticable.
 Raise a mound of stone, 3 $\frac{1}{2}$ ft. base, 2 ft.high, N.of cor.

Chains.

- 43.20 Wash, 40 lks.wide, 2 ft. deep, course S.50°E.
 67.60 Wash, 40 lks.wide, 2 ft. deep, course S.60°E.
 79.98 Corner of secs. 11,12,13 and 14.
 Land, nearly level, stony surface, rocks 6 to 12 ins.in
 diam.
 Palo verde and ironwood along washes.
 Sept. 10, 1913.
-
- Sept. 14, 1913. At 10h. 0m. a.m., l.m.t., I set off 33°
 05' N. on lat.arc; and 3°29' N. on declarc, and determine
 a merisian with the solar at the cor.of secs. 11,12,
 13 and 14.
 Thence I run,
 N.0° 01' W.on a true line, bet. secs.11 and 12.
 Over gradual SE. slope, through scattering brush.
 20.10 Wash, 120 lks.wide, 6 ft. banks, course S.50°E.
 39.40 Wash, 40 lks.wide, 2 ft.banks, course S.50°E.
 40.00 Set an iron post 3 ft.long, 1 in. in diam., 18 ins. in
 the ground (could not set deeper for solid rock), 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 2 ft.base, 1 ft. high around post.
 Raise a mound of stone $3\frac{1}{2}$ 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.1,2,11 and 12, with brass
 cap, marked,
 T 4 S S 2 in NW.,
 R 14 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, 3 ft. high, W.of cor.
 Land, gradual SE. slope, stony surface. Rocks 6 to 12
 ins.in diam.
-
- N.89°55'E., on a random line, bet. secs.1 and 12.
 40.00 Set temp. $\frac{1}{4}$ sec.cor.
 79.96 Intersect east bdy.of the Tp., 14 lks.N.of cor.of secs.
 1,6,7 and 12, established by me, as described in Book
 "B."
 Thence I run,
 N.89° 59' W., on a true line, bet. secs.1 and 12.
 Over hilly ground, covered with volcanic rock boulders.
 11.45 Wash, 50 lks.wide, 6 ft.deep, course S.35° E. Rock bot-
 tom. Water in hole about 100 lks.south of the line;
 hole filled by recent showers, not prevalent. Ascend
 east slope.
 21.21 Top of low ridge, brs.N.and S. Raise mound of stone 2
 ft.base, $1\frac{1}{2}$ ft.high on line. Descend gradual west
 slope.
 35.00 Foot of ridge, brs.N.and S.
 Thence over nearly level land, over boulders.
 39.98 Set an iron post 3 ft.long, 1 in.in diam., 26 ins.in the
 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, 4 ft. base, 2 ft. high, N.of cor.
 42.70 Wash, 60 lks.wide, 6 ft. banks, course S.20°E.
 53.00 Wash, 300 lks.wide, 6 ft. banks, course S.20°E.
 73.60 Wash, 80 lks.wide, shallow, course SE.
 79.96 Cor.of secs.1,2,11 and 12.
 Land, hilly, 35 chs.
 Land,nearly level, 45.00 chs. Stony surface. Palo verde

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

Chains.

timber. Ironwood along washes.

- Note: At the cor. of secs. 1, 2, 11 and 12, I set off $3^{\circ}26'N$. on decl. arc, and at noon, observe the sun on the meridian; the resulting lat. is $33^{\circ}06'N$.
Thence I run,
N. $0^{\circ}01'W$. on a random line, bet. secs. 1 and 2.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.03 Intersect north bdy. of the township at cor. of secs. 1, 2, 35 and 36, established by me, as described in Book "B."
Thence I run,
S. $0^{\circ}01'E$. on a true line, bet. secs. 1 and 2; over gradual NE. slope and boulders.
- 1.00 Descend over SW. slope.
18.70 Wash 20 lks. wide, 3 ft. deep, course S. $40^{\circ}E$.
40.03 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.
- 54.00 Wash, 400 lks. wide, 6 ft. banks, course S. $50^{\circ}E$.
60.00 Wash, 20 lks. wide, 2 ft. deep, course S. $40^{\circ}E$.
70.00 Wash, 10 lks. wide, 2 ft. deep, course SE.
80.03 Cor. of secs. 1, 2, 11 and 12.
Land, rough, broken surface, covered with volcanic stone 6 to 12 ins. in diam., Palo verde and ironwood along washes.
No soil.

Sept. 14, 1913.

- Sept. 11, 1913: At 9h. 0m. a.m., l.m.t., I set off $33^{\circ}01\frac{1}{2}'N$. on lat. arc; and $4^{\circ}38'N$. on decl. arc, and determine a meridian with the solar at the cor. of secs. 2, 3, 34 and 35 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. 34 and 35.
Over north slope, over boulders.
- 3.00 A small drain, course N. $80^{\circ}E$. Ascend steep SE. slope.
11.00 Top of ridge, brs. NE. and SW. Descend.
23.60 Wash, 60 lks. wide 5 ft. deep, course N. $40^{\circ}E$.
Ascend.
29.50 Top of ridge, brs. NE. and SW? Descend.
33.50 Wash, 10 lks. wide, 3 ft. deep, course N. $80^{\circ}E$.
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 34 on W. half;
S 35 on E. half; and
1913 on S. half;
Pits impracticable. Raise a mound of stone 3 ft. base, 2 ft. high, W. of cor.
- 47.00 Top of low ridge, brs. S. $30^{\circ}W$. and N. $10^{\circ}E$.
69.20 Wash, 60 lks. wide, 5 ft. deep, course N. $30^{\circ}E$.
80.00 Set an iron post 3 ft. long, 2 ins. in diam., 6 ins. in the ground for cor. of secs. 26, 27, 34 and 35 (could not set deeper for solid rock), with brass cap, marked
T 4 S S 27 on NW.,
R 14 W S 26 in NE.,
S 35 in SE., and
S 34 in SW. quadrants;
1913 on S. half; pits impracticable.

Subdivision of Township 4 South, Range 14 West, 7.

Chains.

Raise a mound of stone 4 ft. base, 2 ft. high around post.
Raise a mound of stone 4 ft. base, 2 ft. high W. of cor.
Land, rough and broken volcanic rock, boulders.
Palo verde and ironwood along washes. No soil.
Sahuara.

40.00 East, on a random line, bet. secs. 26 and 35.
Set temp. $\frac{1}{4}$ sec. cor.

80.00 Intersect N. and S. line, 5 lks. N. of cor. of secs. 25, 26, 35 and 36.
Thence I run,
N. $89^{\circ}58'$ W., on a true line, bet. secs. 26 and 35.
Over hilly ground, covered with volcanic rock boulders.

1.30 Wash, 80 links wide 2 ft. banks, course north.
5.00 Wash, 40 lks. wide, 2 ft. banks, course north.
Gradual east slope; ascend.

29.00 Top of low ridge, brs. N. and S.
38.00 Wash, 30 lks. wide, 2 ft. deep, course N. 5° W.
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground (could not set deeper for solid rock) 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; pits impracticable.

61.00 Raise a mound of stone 4 ft. base, 2 ft. high, around post.
75.00 Raise a mound of stone 4 ft. base, 3 ft. high, N. of cor.
Wash, 150 lks. wide, 3 ft. deep, course N. 10° W.
Top of low ridge, brs. N. and S. Thence over gradual west slope.

80.00 Cor. of secs. 26, 27, 34 and 35.
Land, rough, broken and hilly.
Surface covered with volcanic rock boulders, 12 to 24 ins. in diam.; no soil.
Scattering palo verde along washes.

Note: At the cor. of secs. 26, 27, 34 and 35, I set off $4^{\circ}35'$ N. on decl. arc, and at noon, observe the sun on the meridian; the resulting lat. is $33^{\circ}02\frac{1}{2}'$ N.
Thence I run,
N. $0^{\circ}01'$ W. on a true line, bet. secs. 26 and 27.
Over rolling land, covered with boulders.

5.00 Wash, 60 lks. wide, 5 ft. banks, course N. 10° E.
Thence along steep east slope of low ridge.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in a mound of stone 4 ft. base, $2\frac{1}{2}$ ft. high for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ S 27 on W. half;
S 26 on E. half; and
1913 on S. half; pits impracticable.

45.00 Raise a mound of stone 4 ft. base, 3 ft. high, W. of cor.
Top of ridge, bears N. 10° E. and S. 10° W. Descend.

61.85 Wash, 50 lks. wide, 5 ft. deep, course N. 30° E.
70.40 Top of low ridge, brs. N. 50° E. and S. 50° W.
80.00 Set an iron post 3 ft. long, 2 ins. in diam., 12 ins. in the ground (could not set deeper for solid rock) for cor. of secs. 22, 23, 26 and 27, with brass cap, marked,
T 4 S S 22 in NW.,
R 14 W S 23 in NE.,
S 26 in SE. and
S 27 in SW. quadrants;
1913 on S. half; pits impracticable.

Raise a mound of stone 3 ft. base, $1\frac{1}{2}$ ft. high around post.
Raise a mound of stone 4 ft. base, 3 ft. high, W. of cor.
Land, rolling surface, covered with volcanic rock boulders, 12 to 24 ins. in diam.,
No soil.

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

Chains.

S. $89^{\circ}58'E.$, on a random line, bet. secs. 23 and 26.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.02 Intersect N. and S. line, 12 lks. S. of cor. of secs. 23, 24, 25 and 26.
 Thence I run,
 S. $89^{\circ}57'W.$, on a true line, bet. secs. 23 and 26.
 Over rolling land; stony surface.
 38.20 Wash, 15 lks. wide, 2 ft. deep, course N. $10^{\circ}E.$
 40.01 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in a mound of stone 3 ft. base, $2\frac{1}{2}$ ft. high for $\frac{1}{4}$ sec. cor., with brass cap, marked,
 $\frac{1}{4}$ S 23 on N. half; and
 S 26, 1913 on S. half; pits impracticable.
 Raise a mound of stone 4 ft. base, 3 ft. high, N. of cor.
 62.20 Wash, 80 lks. wide, 3 ft. deep, course north.
 80.02 Cor. of secs. 22, 23, 26 and 27.
 Land, rolling.
 Stony surface, volcanic rock.
 No soil.
 A few scattering palo verde and ironwood. Sahuara and other cactus.
 Scattering greasewood brush.

N. $0^{\circ}01'W.$, on a true line, bet. secs. 22 and 23.
 Over rolling land and boulders.
 2.00 Wash, 60 lks. wide, 4 ft. deep, course N. $30^{\circ}E.$
 6.65 Wash, 50 lks. wide, 4 ft. deep, course N. $80^{\circ}E.$
 33.40 Wash, 15 lks. wide, 2 ft. deep, course S. $30^{\circ}E.$
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked,
 $\frac{1}{4}$ S 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.
 54.00 Wash, 20 lks. wide, 2 ft. deep, course S. $30^{\circ}E.$
 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 18 ins. in the ground (could not set deeper for solid rock), for cor. of secs. 14, 15, 22 and 23, with brass cap, marked,
 T 4 S S 15 in NW.,
 R 14 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 2 ft. base, 1 ft. high around post.
 Raise a mound of stone 4 ft. base, 3 ft. high, W. of cor.
 Land, rolling surface covered with volcanic boulders.
 Palo verde and ironwood along washes.

N. $89^{\circ}57'E.$, on a random line, bet. secs. 14 and 23.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.02 Intersect N. and S., 11 lks. north of cor. 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 rolling land, surface covered with volcanic rock boulders.
 40.01 Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in the ground (could not set deeper for solid rock), for $\frac{1}{4}$ sec. cor., with brass cap, marked,
 $\frac{1}{4}$ S 14 in N. half, and
 S 23, 1913 in S. half; pits impracticable.
 Raise a mound of stone, 3 ft. base, $1\frac{1}{2}$ ft. high around post.

Subdivision of Township 4 South, Range 14 West, 9.

Chains

45.00 Raise a mound of stone 4 ft. base, 3 ft. high, N. of cor.
 54.90 Shallow wash 20 lks. wide, course SE.
 73.30 Old wagon road brs. NW. and SE.
 80.02 Wash, 40 lks. wide, 6 ft. deep, course south.
 Cor. of secs. 14, 15, 22 and 23.
 Land, gently rolling. Surface covered with volcanic rock.
 A few palo verde along washes; sahuara.
 Sept. 11, 1913.

Sept. 13, 1913:
 N. 0° 01' W., on a true line, bet. secs. 14 and 15.
 Over gently rolling land, covered with volcanic rock.
 5.80 Wash, 40 lks. wide, 4 ft. deep, course S. 30° E.
 17.40 Wagon road brs. NW. and SE.
 24.70 Shallow wash 60 lks. wide, course S. 40° E.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 18 ins. in
 the ground (could not set deeper for solid rock) for
 1/4 sec. cor., with brass cap, marked,
 1/4 S 15 on W. half;
 S 14 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 4 ft. base, 3 ft. high, W. of cor.
 42.60 Shallow wash, 120 lks. wide, course S. 40° E.
 67.60 Shallow wash, 20 lks. wide, course S. 40° E.
 79.00 Wash, 80 lks. wide, 5 ft. deep, course S. 50° E.
 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 14 W S 11 in NE.,
 S 14 in SE., and
 S 15 in SW. quadrants;
 1913 on S. half; from which,
 A palo verde, 8 ins. in diam., bears N. 83° E.,
 55 lks. dist., marked T 4 S R 14 W S 11 B T.
 A palo verde, 12 ins. in diam., bears S. 87° W.,
 60 lks. dist., marked T 4 S R 14 W S 15 B T.
 No other trees in limit. Pits impracticable.
 Raise a mound of stone 4 ft. base, 2 ft. high, W. of cor.
 Land, gently rolling adobe soil, covered with loose stone
 6 to 12 ins. in diam.
 Scattering greasewood brush. Palo verde and ironwood
 along washes.
 Sahuara and other cactus.

S. 89° 58' E., on a random line, bet. secs. 11 and 14.
 40.00 Set temp. 1/4 sec. cor.
 80.05 Fall 5 lks. south of the cor. of secs. 11, 12, 13 and 14.
 Thence I run,
 West, on a true line, bet. secs. 11 and 14.
 Over nearly level land, stony surface; scattering grease-
 wood brush.
 3.10 Wash, shallow, 100 lks. wide, course S. 20° E.
 20.00 Wash, shallow, 100 lks. wide, course SE.
 38.25 Shallow wash, 100 lks. wide, course SE.
 40.025 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 11 on N. half; and
 S 14, 1913 on S. half; pits impracticable.
 Raise a mound of stone 4 ft. base, 2 ft. high, N. of cor.
 50.00 Shallow wash, 50 links wide, course SE.
 72.00 A trail brs. NW. and SE.
 80.05 Cor. of secs. 10, 11, 14 and 15.

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

Chains

Land, nearly level. Adobe soil, covered with loose stone. Palo verde and ironwood along washes; scattering greasewood brush.

September 13, 1913.

Sept. 15, 1913:

N. 0° 01' W., on a true line, bet. secs. 10 and 11.

Over level land; stony surface.

10.80

Shallow wash, 100 links wide, S. 20° 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 10 on W. half;

S 11 on E. half; and

1913 on S. half; pits impracticable.

56.70

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

80.00

Wash, 430 lks. wide, 10 ft. deep, course S. 80° E.

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 14 W S 2 in NE,

S 11 in SE., and

S 10 in SW. quadrants;

1913 on S. half; pits impracticable.

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

Land, nearly level. Adobe soil, covered with loose stone.

Scattering greasewood brush and sahuara.

Note: At the cor. of secs. 2, 3, 10 and 11, I set off 3° 03' N. on decl. arc, and at noon, observe the sun on the meridian; the resulting lat. is 33° 06' N.

Thence I run,

East, on a random line, bet. secs. 2 and 11.

40.00

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

80.04

Intersect N. and S. line, 2 lks. 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.

Over gently rolling land, stony surface.

7.00

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

35.00

Wash, 400 lks. wide, 4 ft. banks, course S. 10° E.

40.02

Set an iron post 3 ft. long, 1 in. in diam., 14 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked, $\frac{1}{4}$ S 2 on N. half; and

S 11 1913 on S. half; pits impracticable.

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

post; raise a mound of stone 4 ft. base, 2 ft. high, N. of cor.

58.00

Wash, 40 links wide, 6 ft. deep, course south. Timber along banks.

80.04

Cor. of secs. 2, 3, 10 and 11.

Land, nearly level adobe soil, covered with loose volcanic rock.

Scattering palo verde along wash.

Giant cactus and other cactus so thick could not drive team through.

N. 0° 01' W., on a random line, bet. secs. 2 and 3.

40.00

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

79.98

Intersect the north bdy. of the Tp., 5 links N. 89° 59' W. of the cor. of secs. 2, 3, 34 and 35, established by me, as

Subdivision of Township 4 South, Range 14 West, 11.

Chains.

described in Book "B."
 Thence I run,
 S.0°01'W., on a true line, bet. secs 2 and 3.
 Over rough and broken ground, covered with loose stone.
 22.00 Wash, 50 lks.wide, 5 ft.banks, course S.10° W.
 39.98 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 3 ft.base, $1\frac{1}{2}$ ft. high around post.
 Raise a mound of stone 4 ft.base, 2 ft.high, W.of cor.
 79.98 Cor.of secs.2,3,10 and 11.
 Land, rough and broken surface, covered with loose
 volcanic rock.
 Scattering greasewood brush and cactus.
 Palo verde and ironwood along washes.
 Sept. 15, 1913.

Sept. 12, 1913. At 9h. 0m. a.m., 1.m.t., I set off 33°
 01 $\frac{1}{2}$ 'N.on lat.arc, and 4°15'N.on decl.arc, and deter-
 mine 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 large boulders.
 2.00 Ascend steep SW. slope, of mountain, over large boulders.
 18.22 Top of ridge, brs.N.20°W. and S.20°E.
 23.52 Descend NE. slope, over boulders.
 36.00 Change to east slope, over boulders.
 40.00 Set an iron post 3 ft.long, 1 in. in diam., 12 ins. in
 the ground (could not set deeper for 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; pits impracticable.
 Raise a mound of stone 3 ft.base, 2 ft.high around post.
 Raise a mound of stone 4 ft.base, 2 ft.high, W.of cor.
 60.00 Top of low ridge, brs.NE. and SW. Thence over gradual
 N. slope.
 80.00 Set an iron post 3 ft.long, 2 ins. in diam., 12 ins. in
 ground (could not set deeper for solid rock), for cor.
 of secs. 27,28,33 and 34, with brass cap, marked,
 T 4 S S 28 in NW.,
 R 14 W S 27 in NE.,
 S 34 in SE., and
 S 33 in SW. quadrants;
 1913 on S.half; pits impracticable.
 Raise a mound of stone, 3 ft.base, $1\frac{1}{2}$ ft. high, around
 post.
 Raise a mound of stone 5 ft.base, 3 ft.high, W.of cor.
 Land, mountainous.
 No soil.
 Surface covered with volcanic rock boulders.

East, on a random line, bet. secs.27 and 34.
 40.00 Set temp. $\frac{1}{4}$ sec.cor.
 79.88 Intersect N.and S. line, 8 links N.of cor.of secs.26,27,
 34 and 35.
 Thence I run,
 N.89°57'W., on a true line, bet. secs.27 and 34, over
 hilly land, stony surface.
 12.10 Wash, 60 lks.wide, 2 ft. deep, course north; ascend.

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

Chains.	
15.60	Top of ridge, brs. S.10°W. and N.10°E. Descend gradual west slope.
39.00	Wash, 20 lks. wide, 3 ft. deep, course north.
39.94	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in a mound of stone 4 ft. base, 2½ ft. high, with brass cap, marked ¼ S 27 on N. half; and S 34, 1913 on S. half; pits impracticable. Raise a mound of stone 4 ft. base, 2 ft. high, N. of cor.
42.00	Top of ridge, brs. N. and S.
53.00	Wash, 70 lks. wide, 3 ft. deep, course north.
60.00	Top of low ridge, brs. N. and S.
67.00	Wash, 50 lks. wide, 2 ft. deep, course north. Ascend steep east slope.
77.00	Change to gradual NE. slope.
79.88	Cor. of secs. 27, 28, 33 and 34. Land, rough and broken; surface covered with volcanic boulders. No soil.

	N.0°02'W., on a true line, bet. secs. 27 and 28.
31.80	Descend over gradual N. slope, large volcanic boulders.
40.00	Head of wash, course NW. Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in the ground, (could not set deeper for solid rock), for ¼ sec. cor., with brass cap, marked, ¼ S 28 on W. half; S 27 on E. half; and 1913 on S. half; pits impracticable.
74.00	Raise a mound of stone 3 ft. base, 1½ ft. high around post.
80.00	Raise a mound of stone 4 ft. base, 3 ft. high, W. of cor. Wash, 10 lks. wide, 2 ft. deep, course N.20° W. 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 14 W S 22 in NE., S 27 in SE., and S 28 in SW. quadrants; 1913 on S. half; pits impracticable. Raise a mound of stone 4 ft. base, 3 ft. high, W. of cor. Land, gradual NW. slope, over large boulders. No soil. Volcanic rock.

40.00	S.89°57'E., on a random line, bet. secs. 22 and 27.
80.03	Set temp. ¼ sec. cor. Intersect N. and S. line at the cor. of secs. 22, 23, 26 and 27.
1.60	Thence I run, N.89°57'W., on a true line, bet. secs. 22 and 27. Over rolling land, covered with volcanic boulders. Wash, 60 lks. wide, 3 ft. banks, course NE.
27.00	Ascend SE. slope. Top of ridge, brs. NE. and SW.
40.015	Descend over gradual NW. slope. Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in the ground, (could not set deeper for solid rock) for ¼ sec. cor., with brass cap, marked, ¼ S 22 on N. half; and S 27, 1913 on S. half; pits impracticable.
73.30	Raise a mound of stone 3 ft. base, 1½ ft. high around post.
80.03	Raise a mound of stone 4 ft. base, 2½ ft. high, N. of cor. Wash, 100 lks. wide, 4 ft. banks, course N.10°W. Cor. of secs. 21, 22, 27 and 28. Land, rolling; surface covered with volcanic boulders.

Subdivision of Township 4 South, Range 14 West, 13.

Chains.

Ocotillo, cholla and suhuara cactus.
Scattering greasewood brush,

Sept.12,1913.

Sept.13, 1913:

At 9h.0m. a.m.,l.m.t., I set off $33^{\circ} 03\frac{1}{2}'$ N.on the lat. arc; and $3^{\circ} 52'$ N.on decl.arc, and determine a meridian with the solar at the cor.of secs. 21,22, 27 and 28.

Thence I run,
N.0°02'W., on a true line, bet. secs.21 and 22.
Over rolling land and boulders.

19.20 Wash, 60 lks.wide, 4 ft. deep, course N.10°E.

27.30 Wash, 50 lks.wide, 2 ft. banks, course east.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground, for $\frac{1}{4}$ sec.cor. (could not set deeper for solid rock), with brass cap, marked,

$\frac{1}{4}$ S 21 on W.half;

S 22 on E.half; and

1913 on S.half; pits impracticable.

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

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

49.74 Wash, 80 lks.wide, 4 ft. banks, course east.

59.00 Wash, 15 lks.wide, course S.5°W.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 6 ins. in the ground (could not set deeper for solid rock),for cor.of secs. 15,16,21 and 22, with brass cap, marked

T 4 S S 16 in NW.,

R 14 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, 2 ft.high, around post.

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

Land, rolling; surface covered with volcanic boulders.

Palo verde along washes. Ocotillo, cholla and sahuara cactus.

Scattering greasewood brush.

S.89°57'E., on a random line, bet. secs.15 and 22.

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

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

Thence I run,

N.89°58'W., on a true line, bet. secs.15 and 22.

Over gently rolling land; stony surface.

22.40 Wash, 20 lks.wide, 5 ft. deep, course S.20°E.

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 15 in N.half; and

S 22 1913 on S.half; pits impracticable.

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

57.50 Wash, 60 lks.wide, 5 ft. banks, course south-east.

78.80 Wash, 15 lks.wide, 3 ft.banks, course south.

79.98 Cor.of secs.15,16,21 and 22.

Land, gently rolling.

Soil, adobe, covered with loose stone, 6 to 12 ins. in diam.,

Timber, scattering palo verde and ironwood along washes. Ocotillo, cholla and sahuara cactus.

Sept. 13,1913.

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

Chains.

Sept. 15, 1913: At 8h. 0m. a.m., l.m.t., I set off $33^{\circ} 04\frac{1}{2}'$ N. on lat. arc, and $3^{\circ} 08'$ N. on decl. arc, and determine a meridian with the solar at the cor. of secs. 15, 16, 21 and 22.

Thence I run,
N. $0^{\circ} 02'$ W., on a true line, bet. secs. 15 and 16.
Over gently rolling land, stony surface.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 6 ins. in the ground, (could not set deeper for solid rock), for $\frac{1}{4}$ sec. cor., with brass cap, marked,
 $\frac{1}{4}$ S 16 on W. half;
S 15 on E. half; and
1913 on S. half; pits impracticable.

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

62.64 Wagon road brs. N. 70° W. and S. 70° E.

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 12 ins. in the ground (could not set deeper for solid rock) for cor. of secs. 9, 10, 15 and 16, with brass cap, marked,
T 4 S S 9 in NW.,
R 14 W S 10 in NE.,
S 15 in SE., and
S 16 in SW. quadrants;
1913 on S. half; pits impracticable.

Raise a mound of stone 3 ft. base, $1\frac{1}{2}$ ft. high around post.
Raise a mound of stone 4 ft. base, $2\frac{1}{2}$ ft. high, W. of cor.
Land, nearly level adobe soil, covered with loose volcanic rock, 6 to 16 ins. in diam.,
Ocotillo, cholla and sahuara cactus.
Timber, scattering palo verde.

40.00 S. $89^{\circ} 58'$ E., on a random line, bet. secs. 10 and 15.
Set temp. $\frac{1}{4}$ sec. cor.

79.98 Intersect N. and S. line, 2 lks. S. 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 boulders on gently rolling land.

1.00 Wash, 80 lks. wide, 3 ft. banks, course S. 50° E.

32.00 Wash, 200 lks. wide, 1 ft. banks, course S. 20° E.

39.99 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground (could not set deeper for solid rock), for $\frac{1}{4}$ sec. cor., with brass cap, marked,
 $\frac{1}{4}$ S 10 on N. half; and
S 15, 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, N. of cor.

47.60 Wash, 120 lks. wide, 8 ft. banks, course S. 20° E.

60.00 Wash, 100 lks. wide, shallow, course S. 20° E.

79.98 Cor. of secs. 9, 10, 15 and 16.
Land, rolling, soil, covered with loose volcanic stone.
Palo verde and ironwood along washes.
Ocotillo, cholla and sahuara cactus.

Sept. 15, 1913.

Sept. 18, 1913:
N. $0^{\circ} 02'$ W., on a true line, bet. secs. 9 and 10.
Over nearly level land; stony surface.

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; and
S 10 on E. half; and
1913 on S. half; pits impracticable.

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

Chains

71.00 Raise a mound of stone, 4 ft. base, 2 ft. high, W. of cor.
 80.00 Wash, 10 lks. wide, course S. 30° E.
 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 14 W S 3 in NE.,
 S 10 in SE., and
 S 9 in SW. quadrants;
 1913 on S. half; pits impracticable.
 Raise a mound of stone 4 ft. base, 2½ ft. high, W. of cor.
 Land, rolling adobe soil, covered with loose stone, 6 to
 24 ins. in diam.
 Palo verde and ironwood along washes.
 Ocotillo, cholla and sahuara cactus.

Note: At the cor. of secs. 3, 4, 9 and 10, I set off 1° 54'
 N. on the decl. arc, and at noon, I observe the sun
 on the meridian; the resulting latitude is 33° 06' N.
 Thence I run,
 S. 89° 59' E., on a random line, bet. secs. 3 and 10.
 40.00 Set temp. ¼ sec. cor.
 80.05 Intersect N. and S. line, 80 links N. of cor. of secs. 2, 3, 10
 and 11.
 Thence I run,
 N. 89° 56' W., on a true line, bet. secs. 3 and 10.
 Over nearly level land; stony surface.
 28.00 Wash, 70 lks. wide, 3 ft. banks, course S. 40° E.
 40.025 Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in
 the ground, (could not set deeper for solid rock), for
 ¼ sec. cor., with brass cap, marked, ¼ S 3 on N. half; and
 S 10, 1913 on S. half; pits impracticable.
 Raise a mound of stone 3 ft. base, 2 ft. high, around post.
 Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
 51.80 Wash, 150 lks. wide, 5 ft. banks, course south.
 73.80 Wash, shallow, 30 lks. wide, course S. 30° E.
 80.05 Cor. of secs. 3, 4, 9 and 10.
 Land, nearly level adobe soil, covered with loose stone, 6
 to 24 ins. in diam.
 Scattering palo verde and ironwood along washes.
 Ocotillo, cholla and sahuara cactus.

40.00 N. 0° 02' W., on a random line, bet. secs. 3 and 4.
 Set temp. ¼ sec. cor.
 79.88 Intersect the north bdy of the Tp., 10 lks. N. 89° 59' W.,
 of the cor. of secs. 3, 4, 33 and 34, established by me, as
 described in Book "B."
 Thence I run,
 S. 0° 02' W., on a true line, bet. secs. 3 and 4.
 Along steep west slope, over boulders.
 7.00 Change to SW. slope.
 34.00 Foot of mountain brs. NW. and SE.
 Thence over gently rolling land.
 39.88 Set an iron post 3 ft. long, 1 in. in diam., 18 ins. in
 the ground (could not set deeper for solid rock),
 for ¼ sec. cor., with brass cap, marked,
 ¼ S 4 on W. half;
 S 3 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.
 55.00 Trail brs. NW. and SE.
 70.00 Wash, 30 lks. wide, 4 ft. banks, course S. 30° E.

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

Chains.

79.88 Cor. of secs. 3, 4, 9 and 10.
Land, mountainous, 34.00 chs.
Nearly level, 46.00 chs.
Stony surface, no soil.
Ocotillo, cholla and sahuara cactus. September 18, 1913.

Sept. 16, 1913:

At 9h. 0m. a.m., l.m.t., I set off $33^{\circ}01\frac{1}{2}'$ N. on lat. arc;
and $2^{\circ}43'$ N. on decl. arc; and determine a meridian with
the solar at the cor. of secs. 4, 5, 32 and 33, on the
south bdy. of the Tp., established by W.K. Kierulff,
as described in Book "A."

Thence I run,

N. $0^{\circ}02'$ W., on a true line, bet. secs. 32 and 33.

Over level land, through greasewood brush.

10.00 Wash, 30 lks. wide, 5 ft. banks, course S. 10° E.36.00 Wash, 40 lks. wide, 3 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 32 on W. half;

S 33 on E. half; and

1913 on S. half; from which,

A palo verde, 12 ins. in diam., bears N. 38° W.,
222 links dist., marked $\frac{1}{4}$ S 32 B T.A palo verde, 8 ins. in diam., brs. S. 39° E., 221
lks. dist., marked $\frac{1}{4}$ S 33 B T.

60.00 Ascend gradual SW. slope, over large boulders.

78.00 Top of ascent, 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 14 W S 28 in NE.,

S 33 in SE., and

S 32 in SW. quadrants;

1913 on S. half; pits impracticable.

Raise a mound of stone 4 ft. base, 3 ft. high, W. of cor.

Land, level, adobe soil, 60.00 chs.

Mountainous, 20.00 chs.

Scattering palo verde, and ironwood timber; giant cactus.

East, on a random line, bet. secs. 28 and 33.

40.00 Set temp. $\frac{1}{4}$ sec. cor.80.05 Intersect N. and S. line, 9 links N. of cor. of secs. 27, 28,
33 and 34.

Thence I run,

N. $89^{\circ}56'$ W., on a true line, bet. secs. 28 and 33, over
gradual west slope of mountain.40.025 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
a mound of stone, 3 ft. base, $2\frac{1}{2}$ ft. high for $\frac{1}{4}$ sec.
cor., with brass cap, marked, $\frac{1}{4}$ S 28 on N. half; and

S 33, 1913 on S. half; pits impracticable.

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

80.05 Cor. of secs. 28, 29, 32 and 33.

Land, gradual west slope of mountain, over large boulders.

No soil.

N. $0^{\circ}02'$ W., on a true line, bet. secs. 28 and 29,
Over gradual NE. slope, over boulders.

Subdivision of Township 4 South, Range 14 West. 17.

Chains.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in a mound of stone 3 ft. base, 2 1/2 ft. high for 1/4 sec. cor. with brass cap, marked,
 1/4 S 29 on W. half;
 S 28 on E. half; and
 1913 on S. half; from which,
 A palo verde, 8 ins. indiam., brs. S. 85 1/4° E., 166 lks. dist., marked 1/4 S 28 B T.
 A palo verde, 10 ins. in diam., bears S. 15° W., 75 lks. dist., marked 1/4 S 29 B T.

Ascend gradual SW. slope from corner.

53.50 Change to gradual N. slope.

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 26 ins. in a mound of stone 4 ft. base, 2 1/2 ft. high, for cor. of secs. 20, 21, 28 and 29, with brass cap, marked,
 T 4 S S 20 in NW.,
 R 14 W S 21 in NE.,
 S 28 in SE., and
 S 29 in SW. quadrants;
 1913 on S. half; pits impracticable.
 Raise a mound of stone 4 ft. base, 2 1/2 ft. high, W. of cor. Land, gradual N. slope, surface covered with boulders 12 ins. to 3 ft. in diam.,
 No soil. A few scattering scrub palo verde near 1/4 sec. cor.
 Ocotillo, cholla and sahuara cactus.

Note: At the cor. of secs. 20, 21, 28 and 29, I set off 2° 40' N. on decl. arc; and at noon, observe the sun on the meridian; the resulting latitude is 33° 03 1/2' N.

Thence I run,
 S. 89° 56' E., on a random line, bet. secs. 21 and 28.

40.00 Set temp. 1/4 sec. cor.
 80.00 Intersect N. and S. line, 14 lks. S. of cor. of secs. 21, 22, 27 and 28.

Thence I run,
 S. 89° 58' W., on a true line, bet. secs. 21 and 28.
 Over gradual NW. slope, over boulders.

6.00 Wash, 10 lks. wide, course NW.

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 (could not set in ground for solid rock) for 1/4 sec. cor., with brass cap, marked,
 1/4 S 21 on N. half; and
 S 28, 1913 on S. half; pits impracticable.

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

50.00 Wash, 25 lks. wide, 2 ft. banks, course NW.

80.00 Cor. of secs. 20, 21, 28 and 29.
 Land, gradual NW. slope; surface covered with loose boulders; no soil.

N. 0° 02' W., on a true line, bet. secs. 20 and 21. Loose stone.

4.00 Wash, 20 links wide, course east.

15.00 Wash, 30 lks. wide, 2 ft. banks, course east.

17.00 Water holes bear east about 12.00 hrs. Water not permanent.

21.00 Wash, 40 lks. wide, 3 ft. banks, course S. 40° E.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor., with brass cap, marked,
 1/4 S 20 on W. half;
 S 21 on E. half; and
 1913 on S. half; pits impracticable.
 Raise a mound of stone 3 ft. base, 2 ft. high, W. of cor.

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

Chains.

Ascend gradual SW. slope.
 58.00 Top of low ridge, brs. NW. and SE.
 Descend gradual N. slope.
 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 14 ins. in the ground (could not set deeper for solid rock), for cor. of secs. 16, 17, 20 and 21, with brass cap, marked, T 4 S S 17 in NW., R 14 W S 16 in NE., S 21 in SE., and S 20 in SW. quadrants; 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, 12 ins. in diam., bears N. 36° E., 139 lks. dist., marked T 4 S R 14 W S 16 B T.
 A palo verde, 6 ins. in diam., bears S. $13\frac{1}{2}^{\circ}$ E., 100 lks. dist., marked T 4 S R 14 W S 21 B T.
 A palo verde, 6 ins. in diam., bears N. $27\frac{1}{2}^{\circ}$ W., 15 lks. dist., marked T 4 S R 14 W S 17 B T.
 No other tree in limit. Pits impracticable.
 Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Land rolling; surface covered with loose stone.
 Very little soil; scattering palo verde near cor.
 Sept. 16, 1913.

Sept. 17, 1913.

At 8h. 0m., a.m., l.m.t., I set off $33^{\circ}04\frac{1}{2}'$ N. on lat. arc, and $2^{\circ}22'$ N. on decl. arc; and determine a meridian with the solar at the cor. of secs. 16, 17, 20 and 21.

Thence I run,
 N. $89^{\circ}58'$ E., on a random line, bet. secs. 16 and 21.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.09 Intersect N. and S. line, 14 lks. N. of cor. of secs. 15, 16, 21 and 22.
 Thence I run,
 N. $89^{\circ}56'$ W., on a true line, bet. secs. 16 and 21.
 Over hilly ground and boulders.
 18.00 Top of low ridge, brs. N. and S.
 23.00 Wash, 30 lks. wide, 2 ft. deep, course S. 15° W.
 36.00 Wash, 10 lks. wide, 2 ft. deep, course south.
 40.045 Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in ground (could not set deeper for solid rock) 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; pits impracticable.
 Raise a mound of stone, 3 ft. base, $1\frac{1}{2}$ ft. high, around post.
 Raise a mound of stone 4 ft. base, 2 ff. high, N. of cor.
 52.50 Wash, 100 lks. wide, 2 ft. deep, course S. 70° E.
 64.10 Wash, 100 lks. wide, 3 ft. banks, course south.
 78.60 Draw, 5 lks. wide, course SE.
 80.09 Cor. of secs. 16, 17, 20 and 21.
 Land, hilly, covered with volcanic boulders, 1 to 5 ft. in diam.,
 No soil.
 Ocotillo, cholla and sahuara cactus.

N. $0^{\circ}02'$ W., on a true line, bet. secs. 16 and 17.

Over low ridges, covered with loose stone.
 28.00 Wash, 10 lks. wide, 2 ft. deep, course east.
 35.20 Wash, 20 lks. wide, 2 ft. deep, course S. 30° 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,

Subdivision of Township 4 South, Range 14 West, 19.

Chains.

$\frac{1}{4}$ S 17 on W.half;
 S 16 on E.half; and
 1913 on S.half; pits impracticable.
 Raise a mound of stone 3 ft base, $2\frac{1}{2}$ ft. high, W.of cor.
 48.00 Wash, 8 lks.wide, course S.10°W.
 67.30 Wash, 12 lks.wide, course west.
 78.80 Wash, 30 lks.wide, shallow, course S.50°W.
 80.00 Set an iron post, 3 ft.long, 2 ins. in diam., 18 ins. in
 the ground, (could not set deeper for solid rock), for
 cor.of secs.8,9,16 and 17, with brass cap, marked,
 T 4 S S 8 in NW.,
 R 14 W S 9 in NE.,
 S 16 in SE., and
 S 17 in SW.quadrants;
 1913 on S.half;
 raise a mound of stone 3 ft.base, $1\frac{1}{2}$ ft. high around
 post; from which,
 An ironwood, 6 ins. in diam., brs.N.83°E.,198
 lks.dist., marked T 4 S R 14 W S 9 B T.
 An ironwood, 6 ins. in diam., brs.S.71°E.,76
 lks.dist., marked T 4 S R 14 W S 16 B T.
 A palo verde, 6 ins. in diam., brs.S.43 $\frac{1}{2}$ °W.,172
 lks.dist., marked T,4 S R 14 W S 17 B T.
 No other trees in limits. Pits impracticable.
 Raise a mound of stone, 4 ft.base, 2 ft.high,W.of cor.
 Land,hilly, covered with loose stone.
 No soil, scattering palo verde on washes.

40.00 S.89° 56'E., on a random line, bet. secs.9 and 16.
 Set temp^a sec.cor.
 79.98 Intersect N.and S. line, 21 lks.S.of cor.of secs.9,10,
 15 and 16.
 Thence I run,
 S.89°55'W., on a true line, bet. secs.9 and 16.
 Over gently rolling land, over loose boulders.
 36.50 Wash, 50 lks.wide, 5 ft. deep, course south.
 39.99 Set an iron post 3 ft.long, 1 in. in diam., 18 ins. in
 ground (could not set deeper for solid rock), 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;pits impracticable.
 Raise a mound of stone 3 ft.base,1 ft.high around post.
 Raise a mound of stone 3 ft.base , 2 ft. high, N.of cor.
 50.00 Top of low ridge, brs.N.15°E. and S.15°W.
 63.50 Road brs.NW. and SE.
 79.00 Shallow wash,30 lks. wide, course S.50°W.
 79.98 Cor.of secs.8,9,16 and 17.
 Land, gently rolling, covered with loose stone.
 Ocotillo, cholla and giant cactus.
 Scattering ironwood and palo verde along washes.
 September 17, 1913.

Sept. 19 1913: At 9h. 0m. a.m.,l.m.t., I set off 33° 05'
 N.on lat.arc; and 1°34'N. on declarc, and determine 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 gently rolling land, over loose stone, through scat^e
 tering greasewood brush.
 6.70 A wagon road brs.NW. and SE.
 18.00 Wash, 100 lks.wide, 4 ft.banks, course S.40°W.
 20.00 Wash, 200 lks.wide, 4 ft. banks, course S.40°W.

20.0 Subdivision of Township 4 South, Range 14 West.

Chains.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 18 ins. in the ground (could not set deeper for solid rock), 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; pits impracticable.
 Raise a mound of stone 2 ft. base, 1 ft. high around post.
 Raise a mound of stone 4 ft. base, 2 ft. high, W. of cor.

42.40 Wash, 20 lks. wide, 3 ft. deep, course west.

48.80 Wash, 200 lks. wide, 3 ft. banks, course 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. 4, 5, 8 and 9, with brass cap marked,
 T 4 S S 5 in NW.,
 R 14 W S 4 in NE.,
 S 9 in SE., and
 S 8 in SW. quadrants;
 1913 on S. half; pits impracticable.
 Raise a mound of stone 4 ft. base, 2 $\frac{1}{2}$ ft high, W. of cor.
 Land, gently rolling, adobe soil, covered with volcanic rock boulders, 12 to 24 ins. in diam.,
 Ocotillo, cholla and giant cactus.
 Scattering palo verde and ironwood along washes.
 Scattering greasewood brush.

40.00 N. 89° 55' E., on a random line, bet. secs. 4 and 9.
 Set temp. $\frac{1}{4}$ sec. cor.

80.02 Intersect N. and S. line, 12 lks. north of the cor. of secs. 3, 4, 9 and 10.
 Thence I run,
 West, on a true line, bet. secs. 4 and 9.
 Over gently rolling land, covered with loose stone.

33.50 Wash, 120 lks. wide, 4 ft. banks, course S. 10° W.

40.01 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground (could not set deeper for solid rock), 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; pits impracticable.
 Raise a mound of stone 3 ft. base, 2 ft. high, around post.
 Raise a mound of stone 3 ft. base, 2 ft. high N. of cor.

45.00 Top of low ridge, brs. N. and S.

59.00 Wash, 25 lks. wide, 2 ft. deep, course south.

66.00 Top of low ridge, brs. N. and S.
 Descend west slope.

75.00 Foot of descent; brs. N. and S.

80.02 Cor. of secs. 4, 5, 8 and 9.
 Land, rolling, covered with volcanic rock boulders.
 No soil. Ocotillo, cholla and giant cactus.
 Scattering palo verde and ironwood along washes.

40.00 N. 0° 02' W., on a random line, bet. secs. 4 and 5.
 Set temp. $\frac{1}{2}$ sec. cor.

79.89 Intersect the N. bdy. of the Tp., 3 lks. N. 89° 59' 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' E., on a true line, bet. secs. 4 and 5.
 Over broken surface, covered with boulders.

10.00 Wash, 200 lks. wide, 4 ft. banks, course S. 80° W.

33.00 Ravine, 50 lks. wide, 10 ft. deep, course S. 80° W.

Subdivision of Township 4 South, Range 14 West. 21.

Chains

30
39.89

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; S 4 on E-half, and 1913 on S-half; pits impracticable.

60.00

Raise a mound of stone 4 ft. base, 2 ft. high, W. of cor. Wash, 25 lks. wide, 3 ft. banks, course SW.

79.89

Cor. of secs. 4, 5, 8 and 9. Land, rough and broken, covered with volcanic boulders. No soil. Decotillo, cholla, and giant cactus. Sept. 19, 1913.

GENERAL DESCRIPTION.

This township is rough and broken covered with loose volcanic rock. The center extending E. and W., is gently rolling, covered with scattering palo verde and ironwood along washes.

There is nearly level land in sections 5, 7, 8, 17, 18, 19, 20, 29, 30, 31 and 32, with palo verde and ironwood along washes. The soil is volcanic ash and adobe; would grow crops if it had water.

Most of the township is covered with cholla cactus, some places so thick that I could not take or drive the animals through. Three quarters of the township is worthless.

There are no settlers in this township.

W. H. Shorn
U.S. Surveyor.

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

Chains.

Survey commenced Sept. 16, 1913, and executed with a Young and Sons' light mountain transit, No. 8485, with Smith 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 latitude and declination arcs.

Note: For adjustment of the instrument and solar, see notes of T. 5 S., R. 14 W., in Book "I."

At 8h. 0m. a.m., l.m.t., I set off $33^{\circ}01\frac{1}{2}'$ N. on lat. arc; and $2^{\circ}44\frac{1}{2}'$ N. on decl. arc, and determine a meridian with the solar, at the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the township, established by me, as described in Book "A."

Thence I run,

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

22.00 Wash, 30 lks. wide, 4 ft. banks, course S. 5° 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 31 on W. half;

S 32 on E. half; and

1913 on S. half; from which,

A palo verde, 4 ins. in diam. brs. N. $61\frac{1}{4}^{\circ}$ W., 61 lks. dist., marked $\frac{1}{4}$ S 31 B T.

A palo verde, 12 ins. in diam., brs. S. $7\frac{1}{2}^{\circ}$ E., 109 lks. dist., marked $\frac{1}{4}$ S 32 B T.

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 14 W S 29 in NE.,

S 32 in SE., and

S 31 in SW. quadrants;

1913 on S. half; from which,

A palo verde, 8 ins. in diam., brs. N. $11\frac{3}{4}^{\circ}$ E., 125 lks. dist., marked T 4 S R 14 W S 29 B T.

A palo verde, 10 ins. in diam., brs. S. $77\frac{1}{2}^{\circ}$ E., 71 lks. dist., marked T 4 S R 14 W S 32 B T.

An ironwood, 8 ins. in diam., bears S. 29° W., 140 lks. dist., marked T 4 S R 14 W S 31 B T.

A palo verde, 6 ins. in diam., brs. N. $66\frac{1}{4}^{\circ}$ W., 226 lks. dist., marked T 4 S R 14 W S 30 B T.

Land gradual south slope.

Soil, volcanic, 3rd rate; most of it covered with malpais boulders.

Timber, scattering palo verde and ironwood.

Undergrowth, scattering greasewood brush.

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

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

Note: At this point, I set off $2^{\circ}40'$ N. on decl. arc; and at noon, I observe the sun on the meridian; the resulting latitude is $33^{\circ}02\frac{1}{2}'$ N.

Continue random line east.

79.94 Intersect N. and S. line, 6 links north of cor. of secs. 28, 29, 32 and 33.

Thence I run,

N. $89^{\circ}57'$ W., on a true line, bet. secs. 29 and 32.

Descending.

14.94 Begin gradual descent of west slope.

17.94 Wash, 50 lks. wide, 3 ft. banks, course S. 10° W.

39.97 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground, (could not set deeper for solid rock), 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; pits impracticable.

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

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

Subdivision of Township 4 South, Range 14 West. 23.

Chains.

69.94 Wash, 50 lks.wide, 3 ft. banks, course south.
 79.94 Cor.of secs. 29,30,31 and 32.
 Land, rough and broken.
 Soil, volcanic ash, 4th rate.
 Timber, scattering palo verde along washes.
 Undergrowth, scattering greasewood brush along washes.

40.00 West, on a random line, bet. secs.30 and 31.
 Set temp. $\frac{1}{4}$ sec.cor.
 81.34 Intersect west bdy.of the Tp., 5 links S. of cor.of secs.
 25-30,31 and 36, established by W.H.Thorn, U.S.Sur-
 veyor, as described in Book "B."
 Thence I run,
 S $89^{\circ}58'$ E., on a true line, bet. secs.30 and 31.
 23.34 Wash, 100 lks.wide, 3 ft. banks, course S. 50° E.
 29.34 Road brs.NW. and SE.
 41.34 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 30 on N.half, and
 $\frac{1}{4}$ S 31, 1913 on S.half;
 dig pits 18x18x12 ins., E and W.of cor. 3 ft. dist.,
 and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,
 N.of corner.
 54.34 Old road brs.N. 5° E. and S. 5° W.
 81.34 Cor.of secs.29,30, 31 and 32.
 Land, level.
 Soil, volcanic ash, 4th rate.
 Timber, scattering palo verde and ironwood along washes.
 Undergrowth, scattering greasewood brush.
 Sept.16, 1913.

Sept. 17, 1913.
 At 8h.0m. a.m., l.m.t., I set off $33^{\circ}02\frac{1}{2}'$ N. on lat. arc;
 and $2^{\circ}21\frac{1}{2}'$ 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.
 36.00 Wash, 100 lks.wide, 4 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 30 on W.half; and
 S 29 on E.half; and
 1913 on S.half; from which,
 A palo verde, 8 ins. in diam., brs.S. $60\frac{1}{2}^{\circ}$ E., 317
 lks.dist., marked $\frac{1}{4}$ S 29 B T.
 A palo verde, 16 ins. in diam., brs.N. $82\frac{1}{2}^{\circ}$ E., 163
 lks.dist., marked $\frac{1}{4}$ S 30 B T.
 80.00 Set an iron post 3 ft.long, 2 ins. in diam., 24 ins. in
 the ground, for cor.of secs. 19,20,29 and 30, with
 brass cap, marked.
 T 4 S S 19 in NW.,
 R 14 W S 20 in NE.,
 S 29 in SE., and
 S 30 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.
 Soil, 4th rate.
 Land, rough and broken, scattering palo verde and ironwood
 along washes. Greasewood.

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

Chains.

40.00 S. $89^{\circ} 57' E.$, on a random line, bet. secs. 20 and 29.
Set temp. $\frac{1}{4}$ sec. cor.
Note: At this point, I set off $2^{\circ} 17' N.$ on decl. arc;
and at noon, I observe the sun on the meridian; the
resulting lat. is $33^{\circ} 03\frac{1}{2}' N.$
Thence I continue random line east.

79.90 Intersect N. and S. line, 16 lks. south of the cor. of secs.
20, 21, 28 and 29.
Thence I run,
S. $89^{\circ} 56' W.$ on a true line, bet. secs. 20 and 29.

18.90 Foot of ascent, east slope.
29.90 Top of ascent.
35.90 Descend.
39.95 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
mound of stone 4 ft. base, $2\frac{1}{2}$ ft. high for $\frac{1}{4}$ sec. cor.,
with brass cap, marked,
 $\frac{1}{4}$ S 20 on N. half; and
S 29, 1913 on S. half; pits impracticable.
Raise a mound of stone 4 ft. base, 3 ft. high, N. of cor.

49.90 Descend steep west slope.
67.90 Wash, 75 lks. wide, 3 ft. banks, course S. $10^{\circ} W.$
79.90 Cor. of secs. 19, 20, 29 and 30.
Land, rough and broken.
Soil, volcanic; 4th rate.
Timber, palo verde and ironwood along washes.
Undergrowth, scattering greasewood brush along washes.

40.00 N. $89^{\circ} 58' W.$, on a random line, bet. secs. 19 and 30.
Set temp. $\frac{1}{4}$ sec. cor.
81.19 Intersect west bdy. of the Tp., 2 links N. of cor. of secs.
19, 24, 25 and 30, established by W. H. Thorn, U. S. Sur-
veyor, as described in Book "B."
Thence I run,
S. $89^{\circ} 59' E.$, on a true line, bet. secs. 19 and 30.

20.69 Wash, 50 lks. wide, 2 ft. banks, course south.
39.19 Wash, 100 lks. wide, 3 ft. banks, course south.
41.19 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
S 30, 1913 on S. half; from which,
A palo verde, 8 ins. in diam., brs. N. $40^{\circ} W.$,
190 lks. dist., marked $\frac{1}{4}$ S 19 B T.
A palo verde, 7 ins. in diam., brs. S. $64\frac{1}{2}^{\circ} W.$, 178
lks. dist., marked $\frac{1}{4}$ S 30 B T.

64.19 Wash, 50 lks. wide, 5 ft. banks, course SE.
67.19 Wash, 100 lks. wide, 8 ft. banks, course S. $10^{\circ} E.$
76.19 Old road brs. N. and S.
81.19 Cor. of secs. 19, 20, 29 and 30.
Land, rough and broken; some level.
Soil, 3rd rate.
Timber, scattering palo verde and ironwood along washes.
Undergrowth along washes, greasewood brush.
Sept. 17, 1913.

Sept. 18, 1913:
At 8h. 0m. a.m., l.m.t., I set off $33^{\circ} 03\frac{1}{2}' N.$ on the lat.
arc; and $1^{\circ} 58' N.$ on the decl. arc, and determine
a meridian with the solar at the cor. of secs. 19, 20,
29 and 30.
Thence I run,
N. $0^{\circ} 03' W.$, on a true line, bet. secs. 19 and 20.

17.30 Old road brs. N. $10^{\circ} E.$ and S. $10^{\circ} W.$
40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in

Subdivision of Township 4 South, Range 14 West. 25.

Chains.

the ground, for $\frac{1}{4}$ sec.cor., with brass cap, marked,
 $\frac{1}{4}$ S 19 on W.half;
 S 20 on E.half; and
 1913 on S.half;
 dig pits 18x18x12 ins., N.and S.of post, $\frac{3}{4}$ ft. dist.,
 and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,
 W.of cor.
 From this $\frac{1}{4}$ sec.cor., the only tree in limit.
 A palo verde, 10 ins. in diam., bears N.42°W., 229
 lks.dist., marked $\frac{1}{4}$ S 19 B T.
 80.00 Set an iron post 3 ft.long, 2 ins. indiam., 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 14 W S 17 in NE.,
 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, W.of
 cor.
 From this cor., the only tree in limit:
 An ironwood, 18 ins. in diam., brs.N.15 $\frac{1}{4}$ °W., 395
 lks.dist., marked T 4-S R 14 W S 18 BT.
 Land, gently rolling.
 Soil, volcanic ash, 3rd rate, covered with gravel and
 malpais boulders.
 Timber, scattering palo verde and ironwood.
 Undergrowth, scattering greasewood brush.

40.00 N.89°56'E. on a random line, bet. secs.17 and 20.
 Set temp. $\frac{1}{4}$ sec.cor.
 Note: At this point, I set off 1°54' N.on decl.arc, and
 at noon, I observe the sun on the meridian; the re-
 sulting lat.is 33°05' N.
 Thence I continue, N.89°56'E., on random line.
 79.92 Intersect N.and S. line, 2 lks. N.of cor.of secs. 16,17,
 20 and 21.
 Thence I run,
 S.89° 57' W., on a true line, bet. secs.17 and 20.
 Over rough and broken land.
 9.92 Top of slope; descend west slope.
 15.92 Wash, 50 lks.wide, 3 ft. banks, course south.
 Ascend east slope.
 23.92 Top of hill; descend west slope.
 25.92 Foot of ascent.
 Ascend east slope.
 27.92 Top of hill, brs.N.and S.
 Descend west slope.
 33.92 Foot of descent.
 39.96 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in a
 mound of stone, 4 ft.base, $2\frac{1}{2}$ ft. high, for $\frac{1}{4}$ sec.cor.,
 with brass cap, marked;
 $\frac{1}{4}$ S 17 on N.half;
 S 20, 1913 on S.half; pits impracticable.
 Raise a mound of stone, 3 ft. base, 2 ft. high, N.of cor.
 Ascend east slope.
 41.92 Top of hill brs.N.and S.
 Descend W. slope.
 57.92 Foot of descent.
 61.92 Wash, 100 lks.wide, 2 ft. banks, course south.
 69.67 Old road brs.N.5°E. and S.5°W.
 79.92 Cor.of secs. 17,18,19 and 20.
 Land, first, 20.00 chs. level, with greasewood brush, palo
 verde and ironwood; gravelly surface.
 Last 60.00 chs. mountainous, decomposed granite and
 malpais boulders.

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

Chains.

N.89°59'W., on a random line, bet. secs.18 and 19.
 40.00 Set temp. $\frac{1}{4}$ sec.cor.
 81.08 Intersect west bdy.of the Tp., 2 lks.S.of the cor.of secs.
 13,18,19 and 24, 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.18 and 19.
 6.58 Old road brs.N.and S.
 39.08 Wash, 75 lks.wide, 4 ft. banks, course south.
 41.08 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; from which,
 An ironwood, 15 ins. in diam., brs.N.70°W.,109
 lks.dist., marked $\frac{1}{4}$ S 18 B T.
 An ironwood, 12 ins. in diam., bears S.77°E.,
 146 lks.dist., marked $\frac{1}{4}$ S 19 B T.
 44.08 Wash, 100 lks.wide, 5 ft. banks, course south.
 67.08 Wash, 50 lks.wide, 3 ft. banks, course S.15°W.
 77.08 Wash,50 lks.wide,3 ft.banks, course S.15°W.
 81.08 Cor.of secs.17,18,19 and 20. Land,gently rolling.
 Soil, volcanic ash, 3rd rate, covered with gravel and mal-
 pais boulders.
 Scattering palo verde wood and greasewood.
 Sept.18, 1913.

 Sept.19, 1913.
 N.0°03'W., on a true line,bet. secs.17 and 18.
 4.00 Wash,50 lks.wide,4 ft. banks, course SW.
 18.00 Wash, 50 lks.wide, 4 ft. banks, course S.5°W.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 mound of stone, 2 $\frac{1}{2}$ ft. base, 2 $\frac{1}{2}$ ft. high, for $\frac{1}{4}$ sec.
 cor., with brass cap, marked,
 $\frac{1}{4}$ S 18 on W.half;
 S 17 on E.half; and
 1913 on S.half;
 raise a mound of stone 4 ft.base, 3 ft. high, W.of cor.
 From this $\frac{1}{4}$ sec.cor., the only tree in limits:
 An ironwood, 8 ins. in diam., brs.N.25°W.,239
 lks.dist., marked $\frac{1}{4}$ S 18 B T.
 52.00 Wash, 50 lks.wide. 5 ft. banks, course SW.
 61.00 Wash, 50 lks.wide, 5 ft. banks, course SW.
 80.00 Set an iron post 3 ft.long, 2 ins. in diam., 18 ins. in
 the ground, (could not set deeper for solid rock),for
 cor.of secs. 7,8,17 and 18, with brass cap, marked,
 T 4 S S 7 in NW.,
 R 14 W S 8 in NE.,
 S 17 in SE., and
 S 18 in SW. quadrants;
 1913 on S.half;
 raise a mound of stone $\frac{3}{4}$ ft.base,1 $\frac{1}{2}$ ft.high, around
 post; from which,
 A palo verde, 11 ins. in diam., brs. N.58°W., 100
 lks.dist., marked T 4 S R 14 W S 7 B T.
 A palo verde, 10 ins. in diam., brs.N.21 $\frac{1}{2}$ °E.,64
 lks.dist., marked T 4 S R 14 W S 8 B T.
 A palo verde, 18 ins. in diam., brs.S.22 $\frac{1}{2}$ °E.,
 398 lks.dist., marked T 4 S R 14 W S 17 B T.
 An ironwood, 8 ins. in diam., brs.S.85°W.,309
 links dist., marked T 4 S R 14 W S 18 B T.
 Land,level.
 Soil, volcanic ash, 3rd rate, covered with gravel and mal-
 pais boulders.
 Timber, scattering palo verde and ironwood.
 Undergrowth, greasewood brush.

Subdivision of Township 4 South, Range 14 West. 27.

Chains.

At 10h. 0m. a.m., l.m.t., I set off $33^{\circ}05'$ N. on lat. arc; and $1^{\circ}32'$ 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. $89^{\circ}57'$ E., on a random line, bet. secs. 8 and 17.

40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.93 Intersect N. and S. line, 7 links S. of cor. of secs. 8, 9, 16 and 17.

Thence I run,
S. $89^{\circ}54'$ W., on a true line, bet. secs. 8 and 17.

21.43 Wash, 50 lks. wide, 5 ft. banks, course SW.
27.43 Old road brs. NE. and SW.
37.93 Wash, 50 lks. wide, 3 ft. banks, course SW.
39.965 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in a mound of stone 4 ft. base, $2\frac{1}{2}$ ft. high, for $\frac{1}{4}$ sec. cor., with brass cap, marked,
 $\frac{1}{4}$ S 8 on N. half;
S 17, 1913 on S. half;
raise a mound of stone 4 ft. base, 3 ft. high, N. of cor. From this $\frac{1}{4}$ sec. cor. the only tree in limit:
A palo verde, 10 ins. in diam., brs. S. $55\frac{1}{2}^{\circ}$ W., 125 lks. dist., marked $\frac{1}{4}$ S 17 B T.

71.93 Ravine, 100 lks. wide, 5 ft. deep, course S. 80° W.
79.93 Cor. of secs. 7, 8, 17 and 18.
Land, rough and broken, rolling.
Soil, 3rd rate, volcanic ash.
Scattering palo verde and ironwood; greasewood brush.

Note: At the cor. of secs. 7, 8, 17 and 18, I set off $1^{\circ}30\frac{1}{2}'$ N. on the decl. arc, and at noon, observe the sun on the meridian; the resulting lat. is $33^{\circ}05'$ N.

Thence I run,
N. $89^{\circ}58'$ W., on a random line, bet. secs. 7 and 18.

40.00 Set temp. $\frac{1}{4}$ sec. cor.
81.04 Intersect the west bdy. of the Tp. at the 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. $89^{\circ}58'$ E., on a true line, bet. secs. 7 and 18.

30.04 Wash, 50 lks. wide, 3 ft. banks, course south.
33.29 Road brs. N. and S.
36.04 Wash, 50 lks. wide, 3 ft. banks, course S. 5° W.
41.04 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 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.

57.04 Wash, 75 lks. wide, 3 ft. banks, course south.
60.04 Wash, 150 lks. wide, 5 ft. banks, course SW.
61.54 Wash, 50 lks. wide, 3 ft. banks, course SW.
81.04 Cor. of secs. 7, 8, 17 and 18.
Land, level.
Soil, volcanic ash, 4th rate, covered with malpais stone.
Timber, scattering palo verde and ironwood along washes.
Scattering greasewood brush.

Sept. 19, 1913.

Sept. 20, 1913:

At 8h. 0m. a.m., l.m.t., I set off $33^{\circ}05'$ N. on lat. arc; $1^{\circ}11\frac{1}{2}'$ 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. $0^{\circ}03'$ W., on a true line, bet. secs. 7 and 8.

21.00 Wash, 50 lks. wide, 3 ft. banks, course SW.

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Chains.

27.00 Wash, 75 lks.wide, 2 ft.banks, course SW.
 36.00 Wash, 200 lks.wide, 3 ft. banks, course west.
 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; from which,
 A palo verde, 10 ins. in diam., brs.N.37°E.,25
 lks.dist., marked $\frac{1}{4}$ S 8 B T.
 A palo verde, 8 ins. in diam., brs.N.70 $\frac{1}{2}$ °W.,95
 lks.dist., marked $\frac{1}{4}$ S 7 B T.
 40.50 Wash, 100 lks.wide, 5 ft. banks, course SW.
 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 14 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.
 From this corner, the only tree in limit:
 An ironwood 8 ins. in diam., brs.S.43°W.,34 lks.
 dist., marked T 4 S R 14 W S 7 B T.
 Land, first half, rough, rolling; last half nearly level.
 Soil, volcanic ash, 4th rate.
 Timber, palo verde and ironwood along washes.
 Undergrowth, dense greasewood brush.

40.00 N.89° 54'E.on a random line, bet. secs.5 and 8.
 Set temp. $\frac{1}{4}$ sec.cor.
 79.95 Intersect N.and S. line, 4 lks.N.of cor.of secs. 4,5,8
 and 9.
 Thence I run,
 S.89°56'W., on a true line, bet. secs.5 and 8.
 17.80 Wash, 15 lks.wide, 2 ft. banks, course S.65° W.
 33.20 Wash, 60 lks.wide, 5 ft. banks, course S. 50° W.
 33.70 Foot of hill, brs.N.and S.
 Ascend.
 39.975 Set an iron post 3 ft.long, 1 in. in diam., 18 ins. in
 the ground, for $\frac{1}{4}$ sec.cor.,with brass cap, marked,
 $\frac{1}{4}$ S 5 on N.half;and
 S 8
 1913 on S.half; pits impracticable.
 Raise a mound of earth and stone 3 ft.base,1 $\frac{1}{2}$ ft.high
 around post.
 Raise a mound of stone 3 ft.base, 2 ft.high,N.of cor.
 51.15 Top of hill, brs.N.and S.
 Descend.
 62.75 Dry wash, 8 lks.wide, 2 ft. banks, course south.
 75.05 Wash, 50 lks.wide, dry, 5 ft.banks, course south.
 79.95 Cor.of secs. 5,6,7 and 8.
 Land,16.00 chs.hilly. 63.95 chs. rolling land; 4th rate
 soil.
 Scattering palo verde and ironwood.
 Scattering greasewood.

Note:

At the cor.of secs. 5,6,7 and 8, I set off 1°07'N.on
 the decl.arc, and at noon, I observe the sun on the
 meridian; the resulting lat.is 33° 06'N.

Subdivision of Township 4 South, Range 14 West.

Chains.

40.00 N.89°58'W., on a random line, bet. secs.6 and 7.
 Set temp. $\frac{1}{4}$ sec.cor.
 80.87 Intersect west bdy.of the Tp., 14 lks.N.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,
 N.89°56'E. on a true line, bet. secs.6 and 7; ascending
 gradual west slope.
 5.87 Ascend steep west slope.
 11.67 Top of hill, brs.N.and S.
 Descend broken SE. slope, over boulders.
 25.87 Bottom of hill, brs.N. and S.
 31.77 Wash, 30 lks.wide, 4 ft.banks, course south.
 33.47 Road to Fox Tank, brs.N.and S.
 40.87 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;
 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,N.of corner.
 Thence over level land.
 44.42 Wash, 30 lks.wide, 3 ft.banks, course south.
 54.47 Wash, 50 lks.wide, 5 ft. banks, course south.
 57.67 Wash, 60 lks.wide, 5 ft. banks, course south.
 69.67 Wash, 40 lks.wide, 4 ft. banks, course S.5° E.
 80.87 Cor.of secs.5,6,7 and 8.
 Land, first 40.87 chs., rough and broken.
 Last 40.00 chs. level, volcanic ash, 4th rate.
 Scattering palo verde and ironwood timber.
 Undergrowth, scattering greasewood brush.

40.00 N.0°03' W., on a random line, bet. secs.5 and 6.
 Set temp. $\frac{1}{4}$ sec.cor.
 79.96 Intersect the north bdy.of the Tp., $1\frac{1}{2}$ lks.N.89°59'W.of
 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°02'E., on a true line, bet. secs.5 and 6.
 Over level land.
 39.96 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.
 41.46 Wash, 60 lks.wide, 5 ft. banks, course S.30° E.
 79.96 Cor.of secs.5, 6, 7 and 8.
 Land,level.
 Soil, volcanic ash, 4th rate.
 Scattering palo verde and ironwood; greasewood brush.

For the general description of this township, see the notes of W.H.Thorn, U.S.Surveyor, page 21 of this Book.

Sept.20, 1913.

H. A. Simulff
U. S. Transitman.

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BOOK 2703

FOR FINAL OATHS OF UNITED STATES SURVEYOR. AND
TRANSITMAN
see Book "L" (subdivision T. 5S.-R. 13W.)

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° 4 South, Range N° 14 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*
under ~~his~~ special instructions dated *February 26, 1913 for Group 28*, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Charles S. Lyall
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.~~