

2702

(1)

Book "I."
Subdivisions

BOOK 2702

FIELD NOTES

OF THE SURVEY OF THE

Subdivision lines of

Township 5 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 February 26, 1913, issued by the United States Surveyor General to govern surveys included in Group No. 28, which were approved by the Commissioner of the General Land Office, March 12, 1913, pursuant to authority contained in the Act of Congress dated June 23, 1913.

Survey commenced August 28, 1913.

Survey completed September 15, 1913.

212

(1A)

BOOK 2702

INDEX DIAGRAM.

Township 5 South, Range 14 West.

6	24	5	18	4	13	3	7	2	1	1
25		24		19		13		7		2
7	25	8	19	9	14	10	8	11	2	12
26		26		20		14		8		3
18	26	17	21	16	15	15	9	14	3	13
27		27		21		15		10		4
19	28	20	21	21	16	22	10	23	5	24
28		28		22		16		11		5
30	29	29	22	28	17	27	11	26	5	25
30		29		23		17		12		6
31	30	32	23	33	18	34	12	35	6	36

First Standard Parallel South

6-151

- Book "A"
- Book "B"
- Book "C"
- Book "D"

Subdivision of Township 5 South, Range 14 West.

16

Chains.

Note: In the following notes, the initials "W.H.T. and "W.K.K." indicate surveys by W.H.Thorn, U.S.Surveyor, and W.K.Kierulff, U.S.Transitman, respectively.

W.K.K.

Survey commenced August 27, 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 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, near the center of sec.8, T.5 S., R.14 W., at 4h. 0m.p.m., l.m.t., I set off $33^{\circ}00\frac{1}{2}'$ N. on the lat.arc; $10^{\circ}02'$ 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. north of my station.

At 9h.11m. p.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 peg set in the ground 5 chs. to the north of my station.

Aug.27, 1913.

Aug. 28, 1913. At 7h. 0m. a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ}23'$ to the west, and mark the meridian thus determined by a tack in the wooden peg already set 5.00 chs. north of my station.

At 8h.0m. a.m., l.m.t., I set off $33^{\circ}0\frac{1}{2}'$ N.on the lat. arc; $9^{\circ}49'$ N.on decl.arc, and determine a meridian with the solar. The meridian thus determined by solar apparatus fall respectively about $20''$ E and W. of the meridian determined by observations on Polaris; therefore, I conclude that the adjustments of the transit are satisfactory.

I commence at the cor.of secs. 1,2,35 and 36, on the north bdy. of T.5 S., R.14 W., established by me, as described in Book "A."

Thence I run,

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

Ascend steep rocky north slope of mountainous, covered with large malpais boulders.

14.00 Top of ascent; change to west slope.

22.00 Change to steep north slope.

28.00 Change to west slope.

30.00 Descend steep south slope.

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

S 1 in E., and

1913 in S.half; pits impracticable.

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

51.00 Foot of descent; ascend steep north slope.

55.00 Top of ascent, brs.E.and W.

Descend steep rocky south slope to

80.00 Foot of descent.

Set an iron post 3 ft.long, 2 ins. in diam., 12 ins. in the ground and build a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high around post for cor.of secs.1,2,11 and 12, with brass cap, marked,

BOOK 2702

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

Chains.

T 5 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; from which,
An ironwood, 6 ins. in diam., bears N. 7° 20' E.,
109 lks. dist., marked T 5 S R 14 W S 1 B T.

No other trees near. Pits impracticable.
Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
Land, mountainous.
Soil, none.

August 28, 1913.

Aug. 29, 1913:

At 8h. 0m. a.m., l.m.t., I set off 33° 01' N. on the lat. arc;
9° 27' N. on the decl. arc, and determine a meridian with
the solar at the cor. of secs. 1, 2, 11 and 12.

Thence I run,
East, on a random line, bet. secs. 1 and 12.

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

Aug. 29. Note: At this point, I set off 9° 23' N. on the
decl. arc, and at 12h. 01m. l.m.t., I observe the sun on
the meridian; the resulting lat. is 33° 01' N.

80.00 Intersect east bdy. of Tp. at the cor. of secs. 1, 6, 7 and
12, established by me, as described in Book "A."

Thence I run,
West, on a true line, bet. secs. 1 and 12.

Over mountainous land.

1.50 Wash, 50 lks. wide, course NE. malpais boulders.

22.00 Top of rocky ridge, brs. NE. and SW.

Descend steep SW. slope of mountain to

32.00 Foot of descent in draw, course S.

Ascend steep SE. slope.

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

S 12, 1913 in S. half; pits impracticable.

43.00 Build a mound of stone, 4 ft. base, 3 ft. high, N. of cor.
Top of ascent; spur ridge, brs. N. and S.

Descend steep rocky west slope.

Thence over rough, broken west slope, covered with mal-
pais boulders to

80.00 Intersect cor. of secs. 1, 2, 11 and 12.

Land, mountainous.

Soil, none.

Timber, none.

Aug. 29, 1913.

Aug. 30, 1913.

At 8h. 0m. a.m., l.m.t., I set off 33° 1' N. on the lat. arc; 9°
6' N. on the decl. arc, and determine a meridian with
the solar at the cor. of secs. 1, 2, 11 and 12.

Thence I run,
S. 0° 01' E., on a true line, bet. secs. 11 and 12.

10.00 Ascend north slope of rocky ridge.

Top of ridge, brs. SE. and NW.

25.00 Descend steep south slope of ridge.

Bottom of descent, brs. SE. and NW.

40.00 Thence over rough gradual south slope.

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the
a mound of stone 3 ft. base, 2 $\frac{1}{2}$ ft. high for $\frac{1}{4}$ sec. cor.
of secs. 11 and 12, with brass cap, marked,

 $\frac{1}{4}$ S 11 on W.,

Subdivision of Township 5 South, Range 14 West. 3.

Chains.

S 12 on E., and
 1913 on S. half; from which,
 A palo verde, 7 ins. in diam., brs. S. $0^{\circ}30'W.$, 54
 lks. dist., marked $\frac{1}{4}$ S 11 B T.
 No other trees near. Pits impracticable.
 Raise a mound of stone 3 ft. base, 3 ft. high, W. of cor.
 76.00 Dry wash, 100 lks. wide, course SW.
 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 1 ft. in
 the ground, and build a mound of stone, 3 ft. base,
 $1\frac{1}{2}$ ft. high around post, for cor. of secs. 11, 12, 13 and
 14, with brass cap, marked,
 T 5 S S 11 in NW.,
 R 14 W S 12 in NE.,
 S 13 in SE., and
 S 14 in SW. quadrants;
 1913 in S. half; pits impracticable.
 Raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.
 Land, mountainous and rough.
 Soil, worthless.
 Timber, a very few scattering scrub palo verde along the
 washes.
 Aug. 30: Note. At this cor. I set off $9^{\circ}02'$ N. on the decl.
 arc, and at 12h. l.m.t., I observe the sun on the
 meridian; the resulting lat. is $33^{\circ}0'N.$

Thence I run,
 East, on a random line, bet. secs. 12 and 13.
 40.00 Set temp. $\frac{1}{4}$ sec. cor. of secs. 12 and 13.
 80.09 Intersect east bdy. of Tp., 3 lks. S. of the cor. of secs.
 7, 12, 13 and 18, established by me, as described in
 Book "A."
 Thence I run,
 S. $89^{\circ}59'W.$, on a true line, bet. secs. 12 and 13.
 Descend steep NW. slope of mountain, covered with large
 granite boulders.
 18.00 Bottom of descent, brs. NE. and SW.
 28.00 Top of ascent; thence along steep south slope to
 33.80 Descend over steep rocky west slope of mountain.
 39.00 Bottom of descent, brs. N. and S.
 40.045 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 a mound of stone, 3 ft. base, $2\frac{1}{2}$ ft. high, for $\frac{1}{4}$ sec.
 cor. of secs. 12 and 13, with brass cap, marked,
 $\frac{1}{4}$ S 12 in N., and
 $\frac{1}{4}$ S 13, 1913 in S. half; pits impracticable.
 Build a mound of stone 4 ft. base, 3 ft. high, N. of cor.
 Thence over gentle west slope.
 80.09 Cor. of secs. 11, 12, 13 and 14.
 Land, 40.00 chs. mountainous; remainder nearly level.
 Soil, worthless.
 Timber, none.

Aug. 30, 1913.

Sept. 5, 1913:
 At 8h. 0m. a.m., l.m.t., I set off $33^{\circ}0'N.$ on the lat.
 arc; $6^{\circ}55'N.$ on the decl. arc, and determine a meridian
 with the solar at the cor. of secs. 11, 12, 13 and 14.
 Thence I run,
 S. $0^{\circ}01'E.$, on a true line, bet. secs. 13 and 14.
 Over gentle south slope.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., of secs. 13 and 14, with
 brass cap, marked,
 $\frac{1}{4}$ S 14 in W.,
 S 13 in E., and
 1913 in S. half; from which,

BOOK 2702

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

Chains.

An ironwood, 24 ins. in diam., brs. S. $55^{\circ}45'E.$,
107 links dist., marked $\frac{1}{4}$ S 13 B T.
No other trees near. 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, west of cor.
66.00 Dry wash, 100 lks. wide, course S. $10^{\circ}W.$
80.00 Set an iron post, $\frac{3}{4}$ 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 14 W S 13 in NE.,
S 24 in SE., and
S 23 in SW. quadrants;
1913 in S. half; from which,
A palo verde, 8 ins. in diam., brs. N. $59^{\circ}45'W.$,
115 lks. dist., marked T 5 S R 14 W S 14 B T.
No other tree near. Pits impracticable.
Build a mound of stone, 4 ft. base, 3 ft. high, west of cor.
Land, nearly level, covered with scattering boulders.
Soil, sandy and stony, 4th rate.
Timber, scattering palo verde and ironwood.
Undergrowth, scrub palo verde.
Sept. 5. Note: At this cor. I set off $6^{\circ}50\frac{1}{2}'N.$ on the decl.
arc; and at 11h. 59m. l.m.t., I observe the sun on
the meridian; the resulting lat. is $32^{\circ}59'N.$

East, on a random line, bet. secs. 13 and 24.
40.00 Set temp. $\frac{1}{4}$ sec. cor. of secs. 13 and 24.
79.96 Intersect east bdy. of the township 3 lks. N. of the cor.
of secs. 13, 18, 19 and 24, established by me, as de-
scribed in Book "A."
Thence I run,
N. $89^{\circ}59'W.$, on a true line, bet. secs. 13 and 24.
Over mountainous land.
Ascend steep rocky east slope of mountain, covered with
large granite boulders.
6.00 Top of ridge, brs. N. and S. Descend steep west slope.
19.00 Foot of descent, brs. E. and W.
Ascend steep NE. slope.
24.00 Top of rocky ridge, brs. NW. and SE.
Descend steep west slope.
32.00 Foot of descent, brs. N. and S.
39.98 Set an iron post $\frac{3}{4}$ ft. long, 1 in. in diam., 26 ins. in
the ground, for $\frac{1}{4}$ sec. cor. of secs. 13 and 24, with
brass cap, marked,
 $\frac{1}{4}$ S 13 in N., and
S 24, 1913 in S. half; from which,
A palo verde, 6 ins. in diam., brs. N. $27\frac{1}{2}^{\circ}W.$, 113
lks. dist., marked $\frac{1}{4}$ S 13 B T.
A palo verde, 8 ins. in diam., brs. S. $12\frac{1}{4}^{\circ}W.$, 201
lks. dist., marked $\frac{1}{4}$ S 24 B T.
Thence over level land.
60.00 Dry wash, 75 lks. wide, banks, 15 ft. high, course SW.
64.00 Dry wash, 125 lks. wide, banks, 40 ft. high, course S. $15^{\circ}W.$
79.96 Cor. of secs. 13, 14, 23 and 24.
Land, 35.00 chs., mountainous; remainder level.
Soil, sandy and rocky on level, 4th rate, mountainous,
worthless.
Timber, scattering palo verde and ironwood.
Sept. 5, 1913.

Sept. 6, 1913:
At 9h. 0m. a.m., l.m.t., I set off $32^{\circ}59'N.$ on the lat. arc;
 $6^{\circ}31'$ on the decl. arc, and determine a meridian with
the solar, at the cor. of secs. 13, 14, 23 and 24.

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

Chains.

- Thence I run,
S.0°01'E., on a true line, bet. secs.23 and 24.
Over level land.
- 10.00 Ravine, 100 lks.wide, 30 ft. deep, course S.10°W.
40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
the ground, for $\frac{1}{4}$ sec.cor. of secs.23 and 24, with
brass cap, marked,
 $\frac{1}{4}$ S 23 in W., and
S 24 in E., and
1913 in S-half;
dig pits, 18x18x12 ins., N.and S.of post 3 ft. dist.,
and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft. high, W.
of cor.
- 67.40 Yuma-Phoenix road brs.N.60°W. and S.60°E.
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 14 W S 24 in NE.,
S 25 in SE., and
S 26 in SW. quadrant;
1913 in S-half;
dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist.,
and raise a mound of earth 4 ft.base, 2 ft. high, W.
of cor.
Land,level, cut with washes.
Soil, sandy, with volcanic ash, covered with gravel,3rd
rate.
Timber, scattering palo verde and ironwood.
Undergrowth, greasewood.
Sept.6: At this cor.I set off 6° 28'N. on the decl.arc;
and at 11h.58m. l.m.t., I observe the sun on the meri-
dian; the resulting latitude is 32° 58'N.
-
- East, on a random line, bet. secs.24 and 25.
40.00 Set temp. $\frac{1}{4}$ sec.cor.of secs.24 and 25.
79.89 Intersect east bdy.of the Tp., 14 lks.N.of the cor.of
secs.19,24,25 and 30, established by me, as described
in Book "A."
Thence I run,
N.89°54'W., on a true line, bet. secs.24 and 25.
Over level land.
- 24.00 Dry wash, 75 lks.wide, course south.
39.945 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
the ground, for $\frac{1}{4}$ sec.cor. of secs.24 and 25, with
brass cap, marked,
 $\frac{1}{4}$ S 24 in N., and
S 25, 1913 in S-half;
dig pits 18x18x12 ins. E.and W.of post, 3 ft. dist.,
and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,
N.of cor.
- 64.60 Yuma-Phoenix road, brs.NW. and SE.
79.89 Cor.of secs.23,24,25 and 26. Sept. 6,1913.
-
- Sept.8, 1913:
At 8h.0m. a.m.,l.m.t., I set off 32° 58'N.on the lat.arc;
5°47 $\frac{1}{2}$ '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 nearly level land.
- 40.00 Set an iron post 3 ft.long,1;in. in diam., 26 ins. in the
ground, for $\frac{1}{4}$ sec.cor.,of secs. 25 and 26, with brass

BOOK 2702

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

Chains.

cap, marked,
 $\frac{1}{4}$ S 26 in W.,
 S 25 in E., and
 1913 in S. half; from which,
 A palo verde, 6 ins. in diam., brs. N. $82\frac{1}{4}^{\circ}$ W., 180
 lks. dist., marked $\frac{1}{4}$ S 26 B T.
 No other trees near. Dig pits 18x18x12 ins., N. and S. of
 post 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. 25, 26, 35 and 36, with
 brass cap, marked,
 T 5 S S 26 in NW.,
 R 14 W S 25 in NE.,
 S 36 in SE., and
 S 35 in SW. quadrants;
 1913 in S. half;
 dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and
 raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
 Land, level, covered with scattering stones.
 Soil, sandy, with gravel and stones, 4th rate.
 Timber, scattering palo verde and ironwood.
 Sept. 8. At this cor. I set off $5^{\circ}43'$ N. on the decl. arc;
 and at 11h. 58m. l.m.t., I observe the sun on the meri-
 dian; the resulting lat. is $32^{\circ}57\frac{1}{2}'$ N.

East, on a random line, bet. secs. 25 and 36.
 40.00 Set temp. $\frac{1}{4}$ sec. cor. of secs. 25 and 36.
 79.86 Intersect east bdy. of the Tp., 5 lks. north of the cor. of
 secs. 25, 30, 31 and 36, established by me, as described
 in Book "A."
 Thence I run,
 N. $89^{\circ}58'$ W., on a true line, bet. secs. 25 and 36.
 Over level land.
 39.93 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., of secs. 25 and 36, with
 brass cap, marked,
 $\frac{1}{4}$ S 25 in N., and
 S 36, 1913 in S. half; from which,
 A palo verde, 8 ins. in diam., brs. N. 6° W.,
 231 lks. dist., marked $\frac{1}{4}$ S 25 B T.
 A palo verde, 8 ins. in diam., brs. S. $87\frac{1}{4}^{\circ}$ E.,
 150 lks. dist., marked, $\frac{1}{4}$ S 36 B T.
 79.86 Cor. of secs. 25, 26, 35 and 36.
 Land, level.
 Soil, sandy with volcanic ash, 3rd rate.
 Timber, scattering palo verde and ironwood.
 Undergrowth, greasewood.

From the cor. of secs. 25, 26, 35 and 36, I run,
 S. $0^{\circ}1'$ E., on a random line, bet. secs. 35 and 36.
 40.00 Set temp. $\frac{1}{4}$ sec. cor. of secs. 35 and 36.
 81.64 Intersect the south bdy. of the Tp. (1st. Standard Parallel
 South) 52 lks. N. $89^{\circ}49'$ E. of the old standard cor.
 of secs. 35 and 36, which has been changed to A.P. by
 W.H. Thorn, U.S. Surveyor, as described in Book "C."
 At point of intersection, set an iron post, 3 ft. long,
 2 ins. in diam., 24 ins. in the ground, for C C of
 secs. 35 and 36, with brass cap, marked,
 C C N. of center,
 S 35 in NW., and
 S 36 in NE. quadrant;
 1913 in S. half;
 dig pits 24x18x12 ins., crosswise on each line, E. and
 W. 3 ft., and N. of post 7 ft. dist., and raise a

Subdivision of Township 5 South, Range 14 West. 7.

Chains.

mound of earth, 4 ft. base, 2 ft. high, N. of cor.
 Thence I run,
 N. 0° 01' W., on a true line, bet. secs. 35 and 36.
 Over level land.

41.64 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., of secs. 35 and 36, with
 brass cap, marked,
 $\frac{1}{4}$ S 35 in W.,
 S 36 in E., and
 1913 in S. half; from which,
 A palo verde, 6 ins. in diam., brs. N. 77 $\frac{1}{2}$ ° W.,
 272 lks. dist., marked $\frac{1}{4}$ S 35 B T.
 A palo verde, 10 ins. in diam., brs. N. 74 $\frac{1}{2}$ ° E.,
 marked $\frac{1}{4}$ S 36 B T.

81.64 Cor. of secs. 25, 26, 35 and 36.
 Land, level.
 Soil, sandy, 3rd rate.
 Timber, scattering palo verde and ironwood.
 Undergrowth, greasewood.

Sept. 8, 1913.

Sept. 1, 1913:

At 8h. 0m. a.m., l.m.t., I set off 33° 01 $\frac{1}{2}$ ' N. on the lat. arc;
 8° 0 $\frac{1}{2}$ ' N. on the decl. arc, and determine a meridian with
 the solar 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."

Thence I run,
 S. 0° 1' E., on a true line, bet. secs. 2 and 3.
 Over mountainous land.
 Along east slope of rocky spur ridge.

34.00 Top of ridge, brs. E. and W.
 34.60 Descend over cliffs to south.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in a
 mound of stone 3 ft. base, 2 $\frac{1}{2}$ ft. high for $\frac{1}{4}$ sec. cor.,
 of secs. 2 and 3, with brass cap, marked,
 $\frac{1}{4}$ S 3 in W.,
 S 2 in E., and
 1913 in S. half; pits impracticable.
 raise a mound of stone 4 ft. base, 2 ft. high, W. of cor.
 Thence over gradual south slope, covered with boulders.

63.00 Dry ravine, course west.
 65.00 Bottom of ravine, 80 ft. deep.
 68.23 Leave ravine.
 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.
 2, 3, 10 and 11, with brass cap, marked,
 T 5 S S 3 in NW.,
 R 14 W S 2 in NE.,
 S 11 in SE., and
 S 10 in SW. quadrant;
 1913 in S. half; pits impracticable.
 Raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.
 Land, mountainous.
 Soil, decomposed granite; granite boulders and malpais
 boulders, worthless.
 Timber, scattering palo verde, growing in the crevices.

Sept. 1, 1913.

Sept. 2, 1913:

At 8h. 0m. a.m., l.m.t., I set off 33° 01' N. on the lat. arc;
 8° 0 $\frac{1}{2}$ ' 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,
 East, on a random line, bet. secs. 2 and 11.

BOOK 2702

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

Chains

- 40.00 Set temp. $\frac{1}{4}$ sec. cor. of secs. 2 and 11.
Sept. 2. At this point, I set off $7^{\circ} 57'$ N. on the decl. arc; and at 12h. l.m.t., I observe the sun on the meridian; the resulting lat. is $33^{\circ} 01'$ N.
- 80.01 Intersect N. and S. line, 6 lks. N. of the cor. of secs. 1, 2, 11 and 12.
Thence I run,
N. $89^{\circ} 57'$ W., on a true line, bet. secs. 2 and 11.
Ascend gradual slope to the NW.
- 13.00 Top of slope; descend SW. slope.
- 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. 2 and 11, with brass cap, marked,
 $\frac{1}{4}$ S 2 in N., and
S 11, 1913 in S. half; pits impracticable.
- 54.00 Raise a mound of stone 3 ft. base, $2\frac{1}{2}$ ft. high, N. of cor.
- 58.00 Dry wash in canyon, 50 lks. wide, 20 ft. deep, course S.
- 67.00 Ascend steep rocky NE. slope.
Top of rocky ridge, brs. SE. and NW.
Descend steep rocky SW. slope.
- 80.01 Cor. of secs. 2, 3, 10 and 11.
Land, mountainous.
Soil, none.
Timber, none.

Sept. 2, 1913.

Sept. 3, 1913:

- At 8h. 0m. a.m., l.m.t., I set off $33^{\circ} 01'$ N. on the lat. arc; $7^{\circ} 39\frac{1}{2}'$ 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. $0^{\circ} 01'$ E. on a true line, bet. secs. 10 and 11.
- 13.00 Ascend north slope.
- 21.00 Top of spur, descend south slope.
- 30.00 Foot of descent, brs. E. and W.
- 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. of secs. 10 and 11. with brass cap, marked
 $\frac{1}{4}$ S 10 in W., a
S 11 in E., and
1913 in S. half; pits impracticable.
- 44.00 Dry wash, 75 lks. wide, banks 25 ft. deep, course SE.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 12 ins. in the ground, and build a mound of stone 3 ft. base, $1\frac{1}{2}$ ft. high around post for cor. of secs. 10, 11, 14 and 15, with brass cap, marked,
T 5 S S 10 in NW.,
R 14 W S 11 in NE.,
S 14 in SE., and
S 15 in SW. quadrant;
1913 in S. half; from which,
A palo verde, 10 ins. in diam., brs. S. $7\frac{1}{2}^{\circ}$ E.,
65 lks. dist., marked T 5 S R 14 W S 14 B T.
An ironwood, 10 ins. in diam., brs. N. $18^{\circ} 45'$ E.,
190 lks. dist., marked T 5 S R 14 W S 11 B T.
- No other trees near. Pits impracticable.
Build a mound of stone, 4 ft. base, 5 ft. high, west of cor.
Land, rough and rocky.
Soil, stony, part 4th rate, most of it worthless.
Timber, scattering palo verde and ironwood.
Undergrowth, none.

- 40.00 East, on a random line, bet. secs. 11 and 14.
Set temp. $\frac{1}{4}$ sec. cor. of secs. 11 and 14.
Sept. 3: At this point, I set off $7^{\circ} 35'$ N. on the decl. arc; and at 11h. 59m. l.m.t., I observe the sun on the meridian.

Subdivision of Township 5 South, Range 14 West. 9.

Chains.

- meridian; the resulting lat. is $33^{\circ} 00' N.$
- 80.07 Intersect N. and S. line, at the cor. of secs. 11, 12, 13 and 14.
Thence I run,
West, on a true line, bet. secs. 11 and 14.
Over rolling land, broken with washes.
- 8.00 Dry wash, 100 lks. wide, with banks, 10 ft. high, course SW.
- 26.00 Dry wash, in canyon, 100 lks. wide, 30 ft. deep, course SW.
- 40.035 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 11 and 14, with brass cap, marked,
 $\frac{1}{4}$ S 11 in N., and
S 14, 1913 on S. half; pits impracticable.
Build a mound of stone 4 ft. base, 3 ft. high, N. of cor.
- 54.00 Dry wash in canyon, 100 lks. wide, 25 ft. deep, course S. $30^{\circ} W.$
- 65.00 Dry wash in canyon, 100 lks. wide, 25 ft. deep, course S. $10^{\circ} E.$
- 80.07 Cor. of secs. 10, 11, 14 and 15.

Sept. 3, 1913.
W.K.K.

W.H.T.

Survey commenced September 3, 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 verniers of the latitude and declination arcs.
For the adjustment of the transit and solar apparatus, see the notes on the subdivision of Township 4 South, Range 16 West, in Book "E."

Sept. 5, 1913:

- At 9h. 0m. a.m., l.m.t., at the cor. of secs. 10, 11, 14 and 15, I set off $33^{\circ} 00' N.$ on lat. arc; $6^{\circ} 53' N.$ on decl. arcs and determine a meridian with the solar.
- Thence I run,
S. $0^{\circ} 01' E.$, on a true line, bet. secs. 14 and 15.
Over rolling land.
- 1.20 Giant cactus on line.
- 26.00 Wash, 150 lks. wide, 8 ft. banks, course S. $50^{\circ} W.$
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 14 and 15, with brass cap, marked,
 $\frac{1}{4}$ S 15 on W. half;
S 14 on E. half; and
1913 on S. half; from which,
An ironwood, 10 ins. in diam., bears S. $65^{\circ} 30' E.$
50 lks. dist., marked $\frac{1}{4}$ S 14 B T.
A palo verde, 4 ins. in diam., brs. S. $59^{\circ} 30' W.$,
81 lks. dist., marked $\frac{1}{4}$ S 15 B T.
- Raise a mound of stone, 3 ft. base, $2\frac{1}{2}$ ft. high, W. of cor.
- 55.20 Wash, 20 lks. wide, 3 ft. banks, course S. $45^{\circ} W.$
- 72.00 Wash, 60 lks. wide, 5 ft. banks, course S. $50^{\circ} W.$
- 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 14 W S 14 in NE.,
S 23 in SE., and
S 22 in SW. quadrants;
1913 on S. half; from which,

BOOK 2702

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

Chains.

- A palo verde, 8 ins. in diam., brs. N. 55° E., 81 lks. dist., marked T 5 S R 14 W S 14 B T.
- A palo verde, 18 ins. in diam., brs. S. 47° 35' E., 155 lks. dist., marked T 5 S R 14 W S 23 B T.
- A palo verde, 6 ins. in diam., brs. S. 63° 30' W., 91 lks. dist., marked T 5 S R 14 W S 22 B T.
- A palo verde, 6 ins. in diam., brs. N. 41° W., 183 lks. dist., marked T 5 S R 14 W S 15 B T.
- Sept. 5: At this cor. I set off 6° 50' N. on decl. arc, and at 11h. 59m. l.m.t., I observe the sun on the meridian; the resulting lat. is 32° 59' N.
- Land, rolling.
- Soil, volcanic ash, 3rd rate. Gravel surface and stony.
- Timber, palo verde, and ironwood.
- Undergrowth, scattering greasewood brush 3 to 4 ft. high.
-
- East, on a random line, bet. secs. 14 and 23.
- 40.00 Set temporary $\frac{1}{4}$ sec. cor.
- 79.97 Intersect N. and S. line, 11 lks. south of the cor. of secs. 13, 14, 23 and 24.
- Thence I run, S. 89° 55' W., on a true line, bet. secs. 14 and 23.
- 2.17 Wash, 15 lks. wide, 10 ft. banks, course S. 5° W.
- 9.97 Wash, 50 lks. wide, 14 ft. banks, course S. 20° E.
- 27.57 Wash, 20 lks. wide, 4 ft. banks, course S. 20° W.
- 37.17 Wash, 30 lks. wide, 3 ft. banks, course S. 20° W.
- 39.985 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 14 and 23, with brass cap, marked, $\frac{1}{4}$ S 14 on N. half; and S 23, 1913 on S. half; from which,
- An ironwood, 14 ins. in diam., brs. N. 88° E., 264 lks. dist., marked $\frac{1}{4}$ S 14 B T.
- An ironwood, 12 ins. in diam., brs. S. 70° E., 190 lks. dist., marked $\frac{1}{4}$ S 23 B T.
- 51.97 Wash, 20 lks. wide, 2 ft. banks, course S. 20° W.
- 65.37 Wash, 10 lks. wide, 2 ft. banks, course S. 30° W.
- 77.97 Wash, 40 lks. wide, 5 ft. banks, course S. 45° W.
- 79.97 Cor. of secs. 14, 15, 22 and 23.
- Land, level.
- Soil, volcanic ash, gravelly, 3rd rate. Surface covered with loose rock.
- Timber, scattering palo verde and ironwood.
- Undergrowth, scattering greasewood brush.
- Sept. 5, 1913.
-
- Sept. 6, 1913:
- At 10h. 0m. a.m., l.m.t., I set off 32° 59' N. on the lat. arc; 6° 30' N. on the 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.
- Over level land.
- 1.90 Wash, 40 lks. wide, 5 ft. banks, course S. 45° W.
- 22.50 Wash, 20 lks. wide, 2 ft. banks, course SW.
- 28.60 Road, Yuma and Phoenix, brs. N. 45° W. and S. 70° E.
- 37.90 Wash, 15 lks. wide, 2 ft. banks, course S. 30° W.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., of secs. 22 and 23, with brass cap, marked, $\frac{1}{4}$ S 22 on W. half, S 23 on E. half; and 1913 on S. half; from which,

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

Chains.

- A palo verde, 8 ins. in diam., brs. N. 86° 35' W.,
190 lks. dist., marked $\frac{1}{4}$ S 22 B T.
No other tree within limits. 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.
- 46.00 Wash, 15 lks. wide, 2 ft. banks, course S. 40° W.
80.00 Set an iron post, $\frac{3}{4}$ 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 14 W S 23 in NE.,
S 26 in SE., and
S 27 in SW. quadrants;
1913 on S. half; from which, the only bear-
ing tree within limits.
- An ironwood, 10 ins. in diam., brs. S. 48° E.,
63 lks. dist., marked T 5 S R 14 W S 26 B T.
Dig pits, 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and
raise a mound of earth 4 ft. base, 2 ft. high, W. of
corner.
- Sept. 6: At this cor. I set off 6° 28' N. on decl. arc; and
at 11h. 58m. l.m.t., I observe the sun on the meridian;
the resulting lat. is 32° 58' N.

- East, on a random line, bet. secs. 23 and 26.
40.00 Set temp. $\frac{1}{2}$ sec. cor.
79.95 Intersect N. and S. line, at the cor. of secs. 23, 24, 25
and 26.
Thence I run,
West, on a true line, bet. secs. 23 and 26.
- 12.55 Wash, 20 lks. wide, 3 ft. banks, course south.
21.95 Hill, 6.00 chs. in diam., 110 ft. high, brs. S. 15 chs.
24.95 Hill about the same size, brs. S. 6 chs.
30.35 Wash, 40 lks. wide, 5 ft. banks, course south.
39.975 Set an iron post $\frac{3}{4}$ ft. long, 1 in. in diam., 26 ins. in
the ground, for $\frac{1}{4}$ sec. cor. of secs. 23 and 26, with
brass cap, marked,
 $\frac{1}{4}$ S 23 on N. half; and
S 26, 1913 on S. half;
dig pits, 18x18x12 ins. E. and W. 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,
north of corner.
- 66.00 Wash, 25 lks. wide, course SW.
76.17 Wash, 15 lks. wide, 2 ft. banks, course S. 30° W.
79.95 Cor. of secs. 22, 23, 26 and 27.
Land, level.
Soil, volcanic ash, 3rd rate, gravel surface.
Timber, palo verde and ironwood scattering.
Scattering greasewood brush.

Sept. 6, 1913.
W.H.T.

- W.K.K.
Sept. 9, 1913.
S. 0° 1' E., on a true line, bet. secs. 26 and 27.
Over level land.
- 6.00 Dry wash, 50 lks. wide, course S. 10° W.
40.00 Set an iron post, $\frac{3}{4}$ ft. long, 1 in. in diam., 26 ins. in
the ground for $\frac{1}{4}$ sec. cor. of secs. 26 and 27, with
brass cap, marked,
 $\frac{1}{4}$ S 27 in W.,
S 26 in E., and
1913 in S. half; from which,

BOOK 2702

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

Chains.

An ironwood, 20 ins. in diam., brs. N. $83^{\circ}45'E.$,
46 lks. dist., marked $\frac{1}{4}$ S 26 B T.
An ironwood, 20 ins. in diam., brs. S. $58^{\circ}W.$, 98
lks. dist., marked $\frac{1}{4}$ S 27 B T.
40.50 Dry wash, 100 lks. wide, course S. $20^{\circ}W.$
80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in
the ground, for cor. of secs. 26, 27, 34 and 35, with brass
cap, marked,
T 5 S S 27 in NW.,
R 15 W S 26 in NE.,
S 35 in SE., and
S 34 in SW. quadrant;
1913 in S. half;
dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and
raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
Land, level, cut with washes.
Soil, sandy, with volcanic ash, 3rd rate.
Timber, scattering palo verde and ironwood.
Undergrowth, greasewood.

40.00 East, on a random line, bet. secs. 26 and 35.
Set temp. $\frac{1}{4}$ sec. cor. of secs. 26 and 35.
79.97 Intersect N. and S. line, 9 lks. north of the cor. of secs.
25, 26, 35 and 36.
Thence I run,
N. $89^{\circ}56'W.$, on a true line, bet. secs. 26 and 35.
Over level land.
39.985 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
the ground for $\frac{1}{4}$ sec. cor. of secs. 26 and 35, with brass
cap, marked,
 $\frac{1}{4}$ S 26 on N., and
S 35, 1913 in S. half;
dig pits 18x18x12 ins., E. and W. of post 3 ft. dist.,
and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of
cor.
79.97 Cor. of secs. 26, 27, 34 and 35.
Land, level.
Soil, sandy with volcanic ash, 3rd rate.
Timber, scattering palo verde.
Undergrowth, greasewood.

Sept. 9, 1913.

Sept. 11, 1913:
S. $0^{\circ}01'E.$, on a true line, bet. secs. 34 and 35.
Over level land.
40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
the ground, for $\frac{1}{4}$ sec. cor. of secs. 34 and 35, with
brass cap, marked,
 $\frac{1}{4}$ S 34 in W. half;
S 35 in E., and
1913 in S. half;
dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist.,
and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,
W. of cor.
81.79 Intersect the south bdy. of the Tp. (1st. Standard Parallel
South) 93 lks. N. $89^{\circ}43'E.$ of the old standard cor. of
secs. 34 and 35, which has been marked A P by W. H.
Thorn, U.S. Surveyor as described in Book "C."
Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in
the ground for C C of secs. 34 and 35, with brass
cap, marked,
C C N. of center,
T 5 S R 14 W in N. half;
S 34 in NW., and

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

Chains.

S 35 in NE. quadrant;
1913 in S. half;dig pits 24x18x12 ins. crosswise on each line, E. and
W. 3 ft., and N. of post, 7 ft. dist., and raise a mound
of earth 4 ft. base, 2 ft. high, N. of cor.

Land, level.

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

Timber, scattering palo verde.

Undergrowth, greasewood.

Sept. 11, 1913.

W.K.K.

W.H.T.

Sept. 3, 1913:

At 10h. 0m. a.m., l.m.t., at the cor. of secs. 3, 4, 33 and 34,
on the north bdy. of the Tp., established by W.K. Kierulff,
as described in Book "A" I set off $33^{\circ} 01\frac{1}{2}'$ N. on lat.
arc; $7^{\circ} 37'$ N. on the decl. arc, and determine a meridian
with the solar.S. $0^{\circ} 02'$ E., on a true line, bet. secs. 3 and 4.

Ascend steep N. slope.

4.10 Top of ridge, brs. E. and W.

Descend steep SW. slope of mountain, over boulders.

29.06 Wash, 30 lks. wide, 4 ft. banks, course N. 35° W., 500 ft.
descent.

Thence over rolling land, covered with boulders.

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

S 3 on E. half; and

1913 on S. half; pits impracticable.

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

58.00 Ascend over east end of hill, over boulders.

60.17 Descend over steep SE. slope.

68.25 Ascend over steep rocky NE. slope.

72.00 Descend over SE. slope.

78.00 Wash, 20 lks. wide, 2 ft. banks, course S. 10° W.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 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,
 $2\frac{1}{2}$ ft. high, west of cor.

Land, mountainous, rough and broken.

Sept. 3, 1913

Sept. 4, 1913: At 8h. 0m. a.m., l.m.t., at the cor. of
secs. 3, 4, 9 and 10, I set off $33^{\circ} 01'$ N. on lat. arc; $7^{\circ} 17'$
N. on decl. arc, and determine a meridian with the so-
lar.

Thence I run,

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

40.00 Set temp. $\frac{1}{4}$ sec. cor.80.12 Intersect N. and S. line, 14 lks. N. of the cor. of secs. 2, 3,
10 and 11.

Thence I run,

BOOK 2702

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

Chains.

14.12 N 89°54' W. on a true line, bet. secs. 3 and 10.
 Wash, 30 lks. wide, 5 ft. banks, course S. 20° W.
 40.06 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in a mound of stone 4 ft. base, 2½ ft. high for ¼ sec. cor. of secs. 3 and 10, with brass cap, marked,
 ¼ S 3 on N. half; and
 S 10, 1913 on S. half; pits impracticable.
 Build a mound of stone 3 ft. base, 2½ ft. high, N. of cor.
 59.62 Wash, 25 lks. wide, 5 ft. banks, course S. 30° W.
 80.12 Cor. of secs. 3, 4, 9 and 10.
 Land, hilly.
 Soil, volcanic ash, gravelly, 3rd rate.
 Surface of ground very rocky.
 Timber, very scattering, palo verde.

S. 0° 02' E., on a true line, bet. secs. 9 and 10.
 Over rolling land.
 5.30 Wash, 25 lks. wide, 4 ft. banks, course S. 40° W.
 13.00 Wash, 20 lks. wide, 5 ft. banks, course S. 85° W.
 38.00 Wash, 25 lks. wide, 4 ft. banks, course west.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor. of secs. 9 and 10, with brass cap, marked,
 ¼ S 9 on W. half;
 S 10 on E. half; and
 1913 on S. half;
 dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, west of cor.
 75.00 Wash, 150 lks. wide, 5 ft. banks, course S. 30° W.
 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 9, 10, 15 and 16, with brass cap, marked,
 T 5 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; from which
 An ironwood, 16 ins. in diam., brs. N. 67° 30' W., 265 lks. dist., marked T 5 S R 14 W S 9 B T.
 A palo verde, 8 ins. in diam., brs. S. 36° 45' W., 222 lks. dist., marked T 5 S R 14 W S 16 B T.
 No other trees within limits. Pits impracticable.
 Raise a mound of stone 4 ft. base, 3 ft. high, W. of cor.
 Sept. 4: Note: At this cor. I set off 7° 13' N. on decl. arc; and at 11h. 59m. l.m.t., I observe the sun on the meridian; the resulting lat. is 33° 00' N.
 Land, rolling.
 Soil, volcanic ash, gravelly surface, 3rd rate.
 Surface covered with loose stone.
 Timber, scattering palo verde and ironwood.

40.00 East, on a random line, bet. secs. 10 and 15.
 Set temp. ¼ sec. cor.
 79.93 Intersect N. and S. line, 20 lks. north of cor. of secs. 10, 11, 14 and 15.
 Thence I run,
 24.93 N. 89° 51' W., on a true line, bet. secs. 10 and 15.
 Wash, 15 lks. wide, 2 ft. banks, course S. 10° W.
 39.965 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor. of secs. 10 and 15, with brass cap, marked,
 ¼ S 10 on N. half; and
 S 15, 1913 on S. half;
 dig pits 18x18x12 ins., E. and W. of post, 3 ft. dist.,

Subdivision of Township 5 South, Range 14 West, 15.

Chains.

and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,
 N. of cor.
 52.54 Wash, 40 lks. wide, 10 ft. banks, course S. 30° W.
 58.53 Wash, 15 lks. wide, 3 ft. banks, course S. 10° W.
 72.43 Wash, 15 lks. wide, 3 ft. banks, course S. 30° W.
 79.93 Cor. of secs. 9, 10, 15 and 16.
 Land, rolling.
 Soil, volcanic ash, 3rd rate, gravelly; surface covered
 with rocks.
 Timber, palo verde and ironwood.
 Undergrowth, scattering greasewood brush.
 W.H.T.

W.K.K.

Sept. 9, 1913:
 At 8h. 0m. a.m., l.m.t., I set off $33^{\circ} 0'$ N. on the lat. arc;
 $5^{\circ} 25'$ N. on the decl. arc, and determine a meridian with
 the solar at the cor. of secs. 9, 10, 15 and 16.
 Thence I run,
 S. $0^{\circ} 02'$ E., on a true line, bet. secs. 15 and 16.
 Over level land.
 8.00 Dry wash, 150 lks. wide, course S. 5° W.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor. of secs. 15 and 16, with
 brass cap, marked,
 $\frac{1}{4}$ S 16 in W.,
 S 15 in E., and
 1913 in S. half; from which,
 An ironwood, 6 ins. in diam., brs. N. $83\frac{1}{2}^{\circ}$ E., 184
 lks. dist., marked $\frac{1}{4}$ S 15 B T.
 A palo verde, 12 ins. in diam., brs. N. $57\frac{1}{2}^{\circ}$ W.,
 112 lks. dist., marked $\frac{1}{4}$ S 16 B T.
 74.00 Dry wash, 150 lks. wide, course S. 10° W.
 78.80 Yuma-Phoenix road brs. S. 60° E. and N. 60° W.
 79.00 Dry wash, 75 lks. wide, course S. 10° W.
 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in
 the ground for cor. of secs. 15, 16, 21 and 22, with
 brass cap, marked,
 T 5 S S 16 in NW.,
 R 14 W S 15 in NE.,
 S 22, in SE., and
 S 21, in SW. quadrant;
 1913 in S. half; from which,
 A palo verde, 15 ins. in diam., brs. N. $62\frac{1}{2}^{\circ}$ E.,
 172 lks. dist., marked T 5 S R 14 W S 15 B T.
 A palo verde, 6 ins. in diam., brs. S. $79^{\circ} 45'$ E.,
 92 lks. dist., marked T 5 S R 14 W S 22 B T.
 A palo verde, 18 ins. in diam., brs. S. $62\frac{1}{2}^{\circ}$ W.,
 92 lks. dist., marked T 5 S R 14 W S 21 B T.
 A palo verde, 10 ins. in diam., brs. N. $31\frac{1}{2}^{\circ}$ W.,
 347 lks. dist., marked T 5 S R 14 W S 16 B T.
 Land, level.
 Soil, sandy, with volcanic ash, 3rd rate.
 Timber, palo verde and ironwood along the washes, and
 scattering elsewhere.
 Undergrowth, greasewood.

40.00 East, on a random line, bet. secs. 15 and 22.
 80.04 Set temp. $\frac{1}{4}$ sec. cor. of secs. 15 and 22.
 Intersect N. and S. line, 16 lks. north of the cor. of secs.
 14, 15, 22 and 23.
 Thence I run,
 N. $89^{\circ} 53'$ W., on a true line, bet. secs. 15 and 22.
 Over level land.
 24.00 Dry wash 50 lks. wide, banks 5 ft. high, course S. 10° W.

BOOK 2702

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

Chains.

32.00 Ravine, 150 lks. wide, 10 ft. deep, course S. 10° W.
 40.02 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 in N., and
 $\frac{1}{4}$ S 22 in E., and
 1913 in S. half;
 dig pits 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

78.00 Yuma-Phoenix road brs. S. 60° E. and N. 60° W.

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

Land, level.

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

Timber, scattering palo verde and ironwood.

 S. 0° 2' E., on a true line, bet. secs. 21 and 22.

Over level land.

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

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. of secs. 21 and 22, with brass cap, marked, $\frac{1}{4}$ S 21 in W., and

S 22 in E., and

1913 in S. half; from which,

A palo verde, 8 ins. in diam., brs. S. 29 $\frac{1}{2}$ ° W.,
 132 lks. dist., marked $\frac{1}{4}$ S 21 B T.An ironwood, 36 ins. in diam., brs. S. 54 $\frac{1}{4}$ ° E.,
 228 lks. dist., marked, $\frac{1}{4}$ S 22 B T.

44.00 Dry wash, 100 lks. wide, course SW.

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 14 W S 22 in NE.,

S 27 in SE., and

S 28 in SW. quadrants;

1913 in S. half; from which, the only tree

within limits:

A palo verde, 10 ins. in diam., brs. N. 45° W., 50
 lks. dist., marked T 5 S R 14 W S 21 B T.Dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and
 raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, volcanic ash, 2nd rate.

Timber, palo verde and ironwood.

Undergrowth, greasewood.

Sept. 9: At this cor. I set off 5° 20 $\frac{1}{2}$ ' N. on the decl. arc;
 and at 11h. 57m. l.m.t., I observe the sun on the meri-
 dian; the resulting lat. is 32° 58' N.-----
 East, on a random line, bet. secs. 22 and 27.40.00 Set temp. $\frac{1}{4}$ sec. cor. of secs. 22 and 27.79.97 Intersect N. and S. line, 9 lks. N. of the cor. of secs. 22,
 23, 26 and 27.

Thence I run,

N. 89° 56' W., on a true line, bet. secs. 22 and 27.

Over level land.

39.985 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 22 and 27, with brass cap, marked, $\frac{1}{4}$ S 22 in N., and

S 27, 1913 in S. half; from which,

Subdivision of Township 5 South, Range 14 West. 17.

Chains.

- A palo verde, 6 ins. in diam., brs. N. $1\frac{1}{2}^{\circ}$ W., 265
lks. dist., marked $\frac{1}{4}$ S 22 B T.
A palo verde, 6 ins. in diam., brs. S. 56° E., 101
lks. dist., marked $\frac{1}{4}$ S 27 B T.
- 46.00 Dry wash, 100 lks. wide, course S. 15° W.
66.00 Dry wash, 100 lks. wide, course S. 15° W.
79.97 Cor. of secs. 21, 22, 27 and 28.
Land, level.
Soil, volcanic ash, 2nd rate.
Timber, scattering palo verde and ironwood.
Undergrowth, greasewood.

Sept. 9, 1913.

Sept. 10, 1913:

- S. $0^{\circ}02'$ E., on a true line, bet. secs. 27 and 28.
Over level land.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor. of secs. 27 and 28, with brass
cap, marked,
 $\frac{1}{4}$ S 28 in W.,
S 27 in E., and
1913 in S. half;
dig pits 18x18x12 ins., N. and S. of post, 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. 27, 28, 33 and 34, with brass
cap, marked,
T 5 S S 28 in NW.,
R 14 W S 27 in NE.,
S 34 in SE., and
S 33 in SW. quadrants;
1913 in S. half;
dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and
raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
Land, level.
Timber, a few scattering palo verde and ironwood trees.
Soil, volcanic ash, 2nd rate.
Undergrowth, greasewood.

- East, on a random line, bet. secs. 27 and 34.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor. of secs. 27 and 34.
80.07 Intersect N. and S. line, 7 lks. north of the cor. of secs.
26, 27, 34 and 35.
Thence I run,
N. $89^{\circ}57'$ W., on a true line, bet. secs. 27 and 34.
- 40.035 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
brass cap, marked,
 $\frac{1}{4}$ S 27 in N., and
S 34, 1913 in S. half; from which,
A palo verde, 8 ins. in diam., brs. S. $11\frac{1}{2}^{\circ}$ W., 133
lks. dist., marked $\frac{1}{4}$ S 34 B T.
A palo verde, 6 ins. in diam., brs. N. $61\frac{1}{2}^{\circ}$ W.,
254 lks. dist., marked $\frac{1}{4}$ S 27 B T.
- 42.00 Dry wash, 150 lks. wide, course S. 5° W.
80.07 Cor. of secs. 27, 28, 33 and 34.
Land, level.
Soil, volcanic ash and sand, 2nd rate.
Timber, scattering palo verde and ironwood.
Undergrowth, greasewood.

Sept. 10, 1913.

BOOK 2702

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

Chains.

Sept. 11, 1913:
 S $0^{\circ}02'$ E., on a true line, bet. secs. 33 and 34.
 Over level land.

38.00 Dry wash, 100 lks. wide, course S. 5° W.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec. cor. of secs. 33 and 34, with
 brass cap, marked,
 $\frac{1}{4}$ S 33 in W.,
 S 34 in E., and
 1913 in S. half; from which,
 A palo verde, 10 ins. in diam., brs. S. $34\frac{1}{2}^{\circ}$ W.,
 217 lks. dist., marked $\frac{1}{4}$ S 33 B T.
 A palo verde, 10 ins. in diam., brs. S. $23\frac{1}{2}^{\circ}$ E.,
 217 lks. dist., marked $\frac{1}{4}$ S 34 B T.

81.87 Intersect the south bdy. of the Tp. (1st. Standard Parallel
 South) 107 lks. N. $89^{\circ} 57'$ E. of the old stand. cor. of
 secs. 33 and 34, which has been changed to A P by W. H.
 Thorn, U. S. Surveyor, as described in Book "C."
 At point of intersection, I set an iron post, 3 ft. long,
 2 ins. in diam., 24 ins. in the ground, for C C of
 secs. 33 and 34, with brass cap, marked,
 C C, N. of center,
 T 5 S R 14 W in N. half;
 S 33 in NW., and
 S 34 in NE. quadrant;
 1913 in S. half;
 dig pits 24x18x12 ins. crosswise on each line, E and W.
 3 ft. and N. of post 7 ft. dist., and raise a mound of
 earth 4 ft. base, 2 ft. high, N. of cor.
 Land, level.
 Soil, sandy, with volcanic ash; 2nd rate.
 Timber, scattering palo verde and ironwood.
 Undergrowth, greasewood.

Sept. 11, 1913.

Sept. 4, 1913:
 At 9h. 0m. a.m., l.m.t., I set off $33^{\circ}01\frac{1}{2}'$ N. on the lat. arc;
 $7^{\circ}15\frac{1}{2}'$ N. on the decl. arc; and determine a meridian with
 the solar, at the cor. of secs. 4, 5, 32 and 33, on the
 north bdy. of the Tp., established by me, as described
 in Book "A."

Thence I run,
 S. $0^{\circ}02'$ E., on a true line, bet. secs. 4 and 5.

1.50 Dry wash, 75 lks. wide, course S. 10° W.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec. cor. of secs. 4 and 5, with brass
 cap, marked,
 $\frac{1}{4}$ S 5 in W., and
 S 4 in E., and
 1913 in S. half; from which,
 A palo verde, 12 ins. in diam., brs. S. $74\frac{1}{2}^{\circ}$ E.,
 72 lks. dist., marked $\frac{1}{4}$ S 4 B T.

No other trees near. 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. 4, 5, 8 and 9, with brass
 cap, marked,
 T 5 S S 5 in NW.,
 R 14 W S 4 in NE.,
 S 9 in SE., and
 S 8 in SW. quadrant;
 1913 in S. half;
 dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and
 raise a mound of earth 4 ft. base, 2 ft. high, W. of
 cor.

Subdivision of Township 5 South, Range 14 West. 19.

Chains.

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

40.00 East, on a random line, bet. secs. 4 and 9.
Set temp. $\frac{1}{4}$ sec. cor. of secs. 4 and 9.
79.95 Intersect N. and S. line, 2 lks. north of the cor. of secs. 3, 4, 9 and 10.
Thence I run,
N. $89^{\circ}59'$ W., on a true line, bet. secs. 4 and 9, over broken
1.00 Wash, 20 lks. wide, course SW. and rough land.
6.00 Ascend steep rough east slope of mountain.
12.00 Top of ascent; ridge, brs. N. and S.
Descend steep west slope.
20.00 Foot of descent; ascend steep rocky east slope.
28.00 Top of ascent; ridge, brs. NE. and SW.
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. 4 and 9, with brass cap, marked,

$\frac{1}{4}$ S 4 in N., and
S 9, 1913 in S. half; from which,
A palo verde, 8 ins. in diam., brs. S. $63^{\circ}45'$ W.,
157 lks. dist., marked, $\frac{1}{4}$ S 9 B T.
An ironwood, 15 ins. in diam., brs. N. $75^{\circ}1'$ W., 133
lks. dist., marked $\frac{1}{4}$ S 4 B T.

44.00 Dry wash, 300 lks. wide, course SW.; enter level land.
79.95 Cor. of secs. 4, 5, 8 and 9.
Land, west 36.00 chs., level, remainder, mountainous.
Soil, sandy and rocky, 3rd and 4th rate, and worthless.
Timber, a few scattering palo verde and ironwood trees.
Undergrowth, greasewood.
Sept. 4: At this cor. I set off $7^{\circ}12\frac{1}{2}'$ N. on the decl. arc;
and at 11h. 59m. l.m.t., I observe the sun on the meridian; the resulting lat. is $33^{\circ}01'$ N.

S. $0^{\circ}02'$ E., on a true line, bet. secs. 8 and 9.
1.00 Ascend north slope of rocky hill.
8.00 Top of hill, brs. E. and W. Hill extends about 20 chs. to west, and 15 chs. to east.
Descend south slope of hill.
13.00 Bottom of hill, brs. E. and W.
Thence over level land.
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., of secs. 8 and 9, with brass cap, marked,

$\frac{1}{4}$ S 8 in W.,
S 9 in E., and
1913 in S. half; from which,
An ironwood, 6 ins. in diam., brs. N. 31° W., 126
lks. dist., marked $\frac{1}{4}$ S 8 B T.
An ironwood, 8 ins. in diam., brs. N. $58^{\circ}45'$ E., 119
lks. dist., marked $\frac{1}{4}$ S 9 B T.

42.30 Old road, brs. NW. and SE.
55.00 Dry wash, 50 lks. wide, course SW.
62.00 Yuma-Phoenix road brs. NW. and SE.
80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 8, 9, 16 and 17, with brass cap, marked,
T 5 S S 8 in NW.,
R 14 W S 9 in NE.,
S 16 in SE., and
S 17 in SW. quadrant;
1913 in S. half; from which,

BOOK 2702

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

Chains.

A palo verde, 6 ins. in diam., brs. N. $73\frac{1}{4}^{\circ}$ E.,
153 lks. dist., marked T 5 S R 14 W S 9 B T.

A palo verde, 6 ins. in diam., brs. S. $62\frac{1}{4}^{\circ}$ W., 95
lks. dist., marked T 5 S R 14 W S 17 B T.

No other trees near; dig pits, 18x18x12 ins., in each
sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base,
2 ft. high, west of cor.

Land, north 13 chs. mountainous, remainder level.

Soil, sandy, with volcanic ash, 3rd rate; mountainous
land, worthless.

Timber, scattering palo verde and ironwood.

Undergrowth, greasewood.

Sept. 4, 1913.

W.K.K.

W.H.T.

From the cor. of secs. 8, 9, 16 and 17, I run,
East, on a random line, bet. secs. 9 and 16.

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

79.85 Intersect N. and S. line, 7 lks. south of cor. of secs. 9, 10,
15 and 16.

Thence I run,

S $89^{\circ}57'$ W., on a true line, bet. secs. 9 and 16.

3.00 Wash, 150 lks. wide, 8 ft. banks, course south.

14.00 Wash, 20 lks. wide, 2 ft. banks, course S. 20° W.

39.925 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
the ground, for $\frac{1}{4}$ sec. cor. of secs. 9 and 16, with brass
cap, marked,

$\frac{1}{4}$ S 9 on N. half; and

S 16, 1913 on S. half;

45.10 Wash, 10 lks. wide, 2 ft. banks, course S. 40° W.

52.90 Wash, 25 lks. wide, 4 ft. banks, course S. 20° W.

59.81 Road, Yuma to Phoenix, brs. NW. and SE.

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

Land, level.

Soil, volcanic ash, 3rd rate; first half mile rocky.

Timber, scattering palo verde.

Scattering greasewood brush, undergrowth.

Note: For the general description of this township see
notes of W.K. Kierulff, U.S. Transitman, on last page
of this book.

W.H. Thorn
U.S. Surveyor.

Subdivision of Township 5 South, Range 14 West. 21.

Chains.

W.K.K.
Sept. 10, 1913:
At 8h.0m. a.m., l.m.t., I set off 33° 0' N. on the lat. arc;
5° 02' N. on the decl. arc; and determine a meridian with
the solar at the cor. of secs. 8, 9, 16 and 17.

Thence I run,
S. 0° 02' E., on a true line, bet. secs. 16 and 17.
Over level land.

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

$\frac{1}{4}$ S 17 in W.,
S 16 in E., and
1913 in S. half;

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

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

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 14 W S 16 in NE.,
S 21 in SE., and
S 20 in SW. quadrant;
1913 in S. half;

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

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

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

40.00 Set temp. $\frac{1}{4}$ sec. cor. of secs. 16 and 21.

80.00 Intersect N. and S. line, 5 lks. north of the cor. of secs.
15, 16, 21 and 22.

Thence I run,
N. 89° 58' W., on a true line, bet. secs. 16 and 21.
Over level land.

2.00 Dry wash, 100 lks. wide, course SW.

11.00 Dry wash, 100 lks. wide, course S. 15° W.

15.00 Dry wash, 75 lks. wide, course S. 15° W.

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

$\frac{1}{4}$ S 16 in N., and
S 21, 1913 in S. half; from which,
A palo verde, 10 ins. in diam., brs. S. 85° E.,
245 lks. dist., marked $\frac{1}{4}$ S 21 B T.

No other trees near. Dig pits, 18x18x12 ins., E. and W.
of post 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft.
base, 1 $\frac{1}{2}$ ft. high, north of cor.

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

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

S. 0° 2' E., on a true line, bet. secs. 20 and 21.
Over level land.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
the ground for $\frac{1}{4}$ sec. cor. of secs. 20 and 21, with
brass cap, marked;

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

Chains.

- $\frac{1}{4}$ S 20 in W.,
 $\frac{1}{4}$ S 21 in E., and
 1913 in S.half;
 dig pits, 18x18x12 ins., N.and S.of cor. 3 ft. dist.,
 and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W.
 of cor.
- 80.00 Set an iron post, 3 ft.long, 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 14 W S 21 in NE.,
 S 28 in SE., and
 S 29 in SW. quadrant;
 1913 in S.half;
 dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and
 raise a mound of earth, 4 ft.base, 2 ft.high, W.of cor.
 Land, level.
 Soil, sandy, with volcanic ash, 2nd rate.
 Timber, scattering palo verde and ironwood.
 Undergrowth, greasewood.
 Sept.10: At this corner I set off $4^{\circ} 58'$ N. on the decl.
 arc; and at 11h. 57m. a.m., l.m.t., I observe the sun on
 the meridian; the resulting lat. is $32^{\circ} 58' N.$
-
- East, on a random line, bet. secs.21 and 28.
 40.00 Set temp. $\frac{1}{4}$ sec.cor.of secs.21 and 28.
 80.04 Intersect N.and S. line, 11 lks.north of the cor.of secs.
 21,22,27 and 28.
 Thence I run,
 N. $89^{\circ} 55'$ W., on a true line, bet. secs.21 and 28.
 Over level land.
- 34.00 Dry wash, 100 lks.wide, course SW.
 40.02 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 28, with
 brass cap, marked,
 $\frac{1}{4}$ S 21 in N., and
 S 28, 1913 in S.half; from which,
 An ironwood, 8 ins. in diam., brs.N. $22\frac{1}{2}^{\circ}$ W., 134
 lks.dist., marked $\frac{1}{4}$ S 21 B T.
 An ironwood, 15 ins. in diam., brs.S. $2\frac{1}{2}^{\circ}$ W., 100
 lks.dist., marked $\frac{1}{4}$ S 28 B T.
- 48.00 Dry wash, 100 lks.wide, course S. 15° W.
 80.04 Cor.of secs.20,21,28 and 29.
 Land, level.
 Soil, sandy, 2nd rate.
 Timber, scattering palo verde and ironwood.
 Sept.10, 1913.
-
- Sept.11, 1913:
 S. $0^{\circ} 02'$ E., on a true line, bet. secs.28 and 29.
 Over level land.
- 40.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec.cor.of secs. 28 and 29, with
 brass cap, marked,
 $\frac{1}{4}$ S 29 in W.,
 S 28 in E., and
 1913 in S.half;
 dig pits, 18x18x12 ins., N.and S.of cor., 3 ft. dist.,
 and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,
 west of cor.
- Sept.11: At this corner at 9h.0m. a.m., l.m.t., I set off
 $32^{\circ} 58' N.$ on the lat.arc; $4^{\circ} 38' N.$ on the decl.arc, and
 determine a meridian with the solar.

Chains.

60.00 Dry wash, 50 lks.wide, course S. 10°W.
 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 14 W S 28 in NE.,
 S 33 in SE., and
 S 32 in SW. quadrant;
 1913 in S.half; from which,
 A palo verde, 8 ins. in diam., brs.N.62°45'E., 183 lks.dist., marked T 5 S R 14 W S 28 B T.
 An ironwood, 6 ins. in diam., brs.S.78°E., 225 lks.dist., marked T 5 S R 14 W S 33 B T.
 An ironwood, 8 ins. in diam., brs.S.63°W., 92 lks.dist., marked T 5 S R 14 W S 32 B T.
 A palo verde 12ins. indiam., brs. N.38° W., 191 lks.dist., marked T 5 S R 14 W S 29 BT.

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

40.00 East, on a random line, bet. secs.28 and 33.
 80.01 Set temp. $\frac{1}{4}$ sec.cor.of secs.28 and 33.
 80.01 Intersect N.and S. line, 16 lks.north of the cor.of secs. 27,28,33 and 34.
 Thence I run,
 N.89°53'W., on a true line, bet. secs.28 and 33.
 Over level land.
 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. 28 and 33,with brass cap, marked,
 $\frac{1}{4}$ S 28 in N., and
 S 33
 1913 in S.half; from which,
 A palo verde, 10 ins. in diam., brs.N.31°E.,170 lks.dist., marked $\frac{1}{4}$ S 28 B T.
 A palo verde, 8 ins. in diam., brs.S.42°E.,92 lks.dist., marked, $\frac{1}{4}$ S 33 B.T.
 80.01 Cor.of secs.28,29,32 and 33.
 Land,level.
 Soil sandy, with volcanic ash, 2nd rate.
 Timber, scattering palo verde and ironwood.
 Undergrowth, greasewood.

S. 0° 02' E., on a true line, bet. secs.32 and 33.
 Over level land.
 40.00 Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor. of secs. 32 and 33, with brass cap, marked,
 $\frac{1}{4}$ S 32 in W.,
 S 33 in E., and
 1913 in S.half; from which,
 A palo verde, 10 ins. in diam., brs.S.48°30'E., 105 lks.dist., marked $\frac{1}{4}$ S 33 B T.
 No other trees near. Dig pits 18x18x12 ins., N.and S.of post, 3 ft.dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, west of cor.
 82.01 Intersect the south bdy.of the Tp. (1st.Standard Parallel South) 142 lks.S.89° 57' E.of old standard cor.of secs. 32 and 33, which has been changed to A P by W.H.Thorn, U.S.Surveyor, as described in Book "C."
 At point of intersection, I set an iron post, 3 ft.long, 2 ins. in diam., 24 ins. in the ground, for C C of secs. 32 and 33, with brass cap, marked

BOOK 2702

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

Chains.

T 5 S R 14 W in N. half;
 C C N of center,
 S 32 in NW., and
 S 33 in NE. quadrants;
 1913 in S. half;

dig pits 24x18x12 ins., crosswise on each line, E. and W.
 3 ft., and N. of post 7 ft. dist., and raise a mound
 of earth 4 ft. base, 2 ft. high, N. of cor.

Land, level.

Soil, sandy, with volcanic ash, 2nd rate.

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

Sept. 11: At this corner, I set off $4^{\circ} 36' N.$ on the decl.
 arc; and at l.h. 57 m. l.m.t., I observe the sun on
 the meridian; the resulting lat. is $32^{\circ} 56\frac{1}{2}' N.$
 Sept. 11, 1913.

Sept. 12, 1913:

At 8h. 0m. a.m., l.m.t., I set off $33^{\circ} 01\frac{1}{2}' N.$ on the lat.
 arc; $4^{\circ} 17' N.$ on the decl. arc, and determine a meri-
 dian 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.

Over level land.

7.00 Old road, brs. SE. and NW.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec. cor. of secs. 5 and 6, with
 brass cap, marked,

$\frac{1}{4}$ S 6 in W., and

S 5 in E. and

1913 in S. half;

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

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins.
 in the ground, for cor. of secs. 5, 6, 7 and 8, with
 brass cap, marked,

T 5 S S 6 in NW.,

R 14 W S 5 in NE.,

S 8 in SE., and

S 7 in SW. quadrant;

1913 in S. half; from which,

An ironwood, 12 ins. in diam., brs. N. $86\frac{1}{2}^{\circ} W.$,

68 lks. dist., marked T 5 S R 14 W S 6 B T.

No other trees near. Dig pits 18x18x12 ins. in each
 sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft.
 base, 2 ft. high, west of cor.

Land, level.

Soil, sandy, with volcanic ash, 2nd rate.

Timber, scattering palo verde and ironwood.

Undergrowth, greasewood.

40.00 East, on a random line, bet. secs. 5 and 8.

80.06 Set temp. $\frac{1}{4}$ sec. cor. of secs. 5 and 8.

Intersect N. and S. line, 6 lks. north of the cor. of secs.
 4, 5, 8 and 9.

Thence I run,

N. $89^{\circ} 57' W.$, on a true line, bet. secs. 5 and 8.

Over level land.

15.00 Dry wash, 75 lks. wide, banks, 4 ft. high, course S. $10^{\circ} W.$

22.00 Old road brs. NW. and SE.

40.03 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,

Subdivision of Township 5 South, Range 14 West, 25.

Chains.

- $\frac{1}{4}$ S 5 in N., and
 S 8, 1913 in S. half; from which,
 A palo verde, 12 ins. in diam., brs. N. $89^{\circ}50'W.$,
 140 lks. dist., marked $\frac{1}{4}$ S 5 B T.
 No other trees near. Dig pits 18x18x12 ins., E. and W.
 of post, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$
 ft. base, $1\frac{1}{2}$ ft. high, north of cor.
 80.06 Cor. of secs. 5, 6, 7 and 8.
 Soil, sandy, 2nd rate.
 Timber, scattering palo verde and ironwood.
-
- West, on a random line, bet. secs. 6 and 7.
 40.00 Set temp. $\frac{1}{4}$ sec. cor. of secs. 6 and 7.
 81.50 Intersect west bdy. of the Tp., 2 lks. north of the cor. of
 secs. 1, 6, 7 and 12, established by me, as described
 in Book "A."
 Thence I run,
 N. $89^{\circ}59'E.$, on a true line, bet. secs. 6 and 7.
 Over level land.
 11.75 Old road brs. N. and S.
 20.50 Dry wash, 75 lks. wide, course S. $10^{\circ}W.$
 25.00 Yuma-Phoenix road, brs. NW. and SE.
 36.00 Dry wash, 75 lks. wide, course SW.
 41.50 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,
 $\frac{1}{4}$ S 6 in N., and
 S 7, 1913 in S. half; from which,
 A palo verde, 10 ins. in diam., brs. N. $63^{\circ}45'E.$,
 229 lks. dist., marked $\frac{1}{4}$ S 6 B T.
 A palo verde, 15 ins. in diam., brs. S. $80^{\circ}45'E.$,
 226 lks. dist., marked $\frac{1}{4}$ S 7 B T.
 58.00 Dry wash, 50 lks. wide, course SW.
 81.50 Cor. of secs. 5, 6, 7 and 8.
 Land, level.
 Soil, sandy, with volcanic ash; 2nd rate.
 Timber, scattering palo verde and ironwood.
 Undergrowth, greasewood.
 Sept. 12: At this cor. I set off $4^{\circ}12'N.$ on the decl. arc;
 and at 11h. 56m. l.m.t., I observe the sun on the
 meridian; the resulting latitude is $33^{\circ}01'N.$
-
- S. $0^{\circ}03'E.$, on a true line, bet. secs. 7 and 8.
 Over level land.
 26.75 Yuma-Phoenix road, brs. NW. and SE.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec. cor. of secs. 7 and 8, with
 brass cap, marked,
 $\frac{1}{4}$ S 7 in W.,
 S 8 in E., and
 1913 in S. half; from which,
 A palo verde, 12 ins. in diam., brs. N. $1^{\circ}E.$,
 123 lks. dist., marked $\frac{1}{4}$ S 8 B T.
 A palo verde, 8 ins. in diam., brs. N. $1^{\circ}W.$, 60
 lks. dist., marked $\frac{1}{4}$ S 7 B T.
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins.
 in the ground, for cor. of secs. 7, 8, 17 and 18, with
 brass cap, marked,
 T 5 S S 7 in NW.,
 R 14 W S 8 in NE.,
 S 17 in SE., and
 S 18 in SW. quadrant;
 1913 in S. half; from which,
 An ironwood, 12 ins. in diam., brs. N. $13\frac{1}{2}^{\circ}E.$,
 272 lks. dist., marked T 5 S R 14 W S 8 B T.
 An ironwood, 12 ins. in diam., brs. S. $64^{\circ}E.$, 138

BOOK 2702

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

Chains

1ks.dist., marked T 5 S R 14 W S 17 B T.
 A palo verde, 10 ins. in diam., brs.S.56 $\frac{1}{2}$ °W.,
 423 lks.dist., marked T 5 S R 14 W S 18 B T.
 A palo verde, 14 ins. in diam., brs.N.73°W.,
 159 lks.dist., marked T 5 S R 14 W S 7 B T.

Land, level.

Soil, sandy, with volcanic ash, 2nd rate.

Timber, scattering palo verde and ironwood.

Undergrowth, greasewood.

40.00 East, on a random line, bet. secs.8 and 17.
 Set temp. $\frac{1}{4}$ sec.cor.of secs.8 and 17.
 80.06 Intersect N.and S. line, at the cor.of secs.8,9,16 and 17.
 Thence I run,
 West, on a true line, bet. secs.8 and 17.
 Over level land.
 37.00 Dry wash, 50 lks.wide, course S.15°W.
 40.03 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 in N., and
 S 17, 1913 in S.half; from which,
 A palo verde, 8 ins. in diam., brs.S.77°W., 276
 lks.dist., marked $\frac{1}{4}$ S 17 B T.
 A palo verde, 12 ins. in diam., brs.N.30°W.,
 237 lks.dist., marked $\frac{1}{4}$ S 8 B T.
 50.00 Dry wash, 50 lks.wide, course S.10°W.
 80.06 Cor.of secs. 7,8,17 and 18.
 Land, level.
 Soil, sandy, with volcanic ash and gravel, 2nd rate.
 Timber, scattering palo verde and ironwood.
 Undergrowth, greasewood.

40.00 West, on a random line, bet. secs.7 and 18.
 Set temp. $\frac{1}{4}$ sec.cor. of secs.7 and 18.
 81.59 Intersect west bdy,of the township, 5 lks.north of the
 corner of secs. 7,12,13 and 18. established by me, as
 described in Book "A."
 Thence I run,
 N.89°58'E., on a true line, bet. secs.7 and 18.
 Over level land.
 33.50 Dry wash, 100 lks.wide, course south.
 41.59 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 in N., and
 S 18, 1913 in S.half; from which,
 A palo verde, 12 ins. in diam., brs.N.25°E.,
 163 lks.dist., marked $\frac{1}{4}$ S 7 B T.
 An ironwood, 18 ins. in diam., brs.S.73 $\frac{1}{2}$ °E., 132
 lks.dist., marked $\frac{1}{4}$ S 18 B T.
 81.59 Cor.of secs.7,8,17 and 18.
 Land, level.
 Soil, sandy, with volcanic ash; 2nd rate.
 Timber, scattering palo verde and ironwood.
 Undergrowth, greasewood.

Sept.12,1913.

Sept.13, 1913:

At 8h.0m. a.m., l.m.t., I set off 33°0' N.on the lat.arc;
 3°54' N.on the decl.arc; and determine a meridian with
 the solar at the cor.of secs.7,8,17 and 18.

Thence I run,

S.0°03'E., on a true line, bet. secs.17 and 18.

Subdivision of Township 5 South, Range 14 West. 27.

Chains.

Over level land.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 17 and 18, with brass cap, marked,
 $\frac{1}{4}$ S 18 in W.,
 S 17 in E., and
 1913 in S. half;
 dig pits, 18x18x12 ins., N. and S. of post, 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. 17, 18, 19 and 20, with brass cap, marked,
 T 5 S S 18 in NW.,
 R 14 W S 17 in NE.,
 S 20 in SE., and
 S 19 in SW. quadrant;
 1913 in S. half;
 dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, west of cor.

Land, level.
 Soil, sandy, with volcanic ash, 2nd rate; timber, none.

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

80.00 Intersect N. and S. line, 10 lks. N. of the cor. of secs. 16, 17, 20 and 21.
 Thence I run,
 N. $89^{\circ}56'$ W., on a true line, bet. secs. 17 and 20.
 Over level land.

14.00 Dry wash, 75 lks. wide, course SW.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 17 and 20, with brass cap, marked,
 $\frac{1}{4}$ S 17 in N., and
 S 20, 1913 in S. half;
 dig pits 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

70.00 Dry wash, 50 lks. wide, banks, 4 ft. high, course S. 20° W.

80.00 Cor. of secs. 17, 18, 19 and 20.
 Land level.
 Soil, sandy, with volcanic ash, 2nd rate,
 Timber, scattering palo verde and ironwood along washes.
 Undergrowth, greasewood.

40.00 West, on a random line, bet. secs. 18 and 19.
 Set temp. $\frac{1}{4}$ sec. cor. of secs. 18 and 19.

81.72 Intersect west bdy. of the Tp., 7 lks. N. of the cor. of 13, 18, 19 and 24, established by me, as described in Book "A."
 Thence I run,
 N. $89^{\circ}57'$ E., on a true line, bet. secs. 18 and 19.
 Over level land.

6.70 Dry wash, 75 lks. wide, course S. 5° W.

41.72 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 brass cap, marked,
 $\frac{1}{4}$ S 18 in N., and
 S 19, 1913 in S. half; from which,
 A palo verde, 10 ins. in diam., brs. N. $9^{\circ}45'$ E.,
 104 lks. dist., marked $\frac{1}{4}$ S 18 B T.
 A palo verde, 6 ins. in diam., brs. S. $87\frac{1}{2}^{\circ}$ E.,
 113 lks. dist., marked $\frac{1}{4}$ S 19 B T.

42.70 Dry wash, 70 lks. wide, course S. 10° W.

BOOK 2702

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

Chains.

81.72 Cor. of secs. 17, 18, 19 and 20.
Land, level.
Soil, sandy, with volcanic ash, 2nd rate.
Timber, scattering palo verde and ironwood along washes.
Undergrowth, greasewood.
Sept. 13: At this cor., I set off $3^{\circ} 49\frac{1}{2}'$ N. on the decl. arc; and at 11h. 56m. l.m.t., I observe the sun on the meridian; the resulting lat. is $32^{\circ} 59'$ N.

40.00 S. $0^{\circ} 03'$ E., on a true line, bet. secs. 19 and 20.
Over level land.
Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 19 and 20, with brass cap, marked,
 $\frac{1}{4}$ S 19 in W.,
S 20 in E., and
1913 in S. half;
dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, west of corner.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 19, 20, 29 and 30, with brass cap, marked,
T 5 S S 19 in NW.,
R 14 W S 20 in NE.,
S 29 in SE., and
S 30 in SW. quadrant;
1913 in S. half;
dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, west of cor.
Land, level.
Soil, sandy, with volcanic ash, 2nd rate.
Timber, scattering palo verde and ironwood.
Undergrowth, greasewood.

40.00 East, on a random line, bet. secs. 20 and 29.
Set temp. $\frac{1}{4}$ sec. cor. of secs. 20 and 29.
80.11 Intersect N. and S. line, 16 lks. N. of the cor. of secs. 20, 21, 28 and 29.

Thence I run,
N. $89^{\circ} 53'$ W., on a true line, bet. secs. 20 and 29.
Over level land.

40.055 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 in N., and
S 29, 1913 in S. half;
dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

80.11 Cor. of secs. 19, 20, 29 and 30.
Land, level.
Soil, sandy, with volcanic ash; 2nd rate.
Timber, a few scattering palo verde and ironwood.
Undergrowth, greasewood.

40.00 West, on a random line, bet. secs. 19 and 30.
Set temp. $\frac{1}{4}$ sec. cor. of secs. 19 and 30.
81.79 Intersect west bdy. of the Tp., 5 lks. north of the cor. of secs. 19, 24, 25 and 30, established by me, as described in Book "A"
Thence $\frac{1}{4}$ run,

Chains.

N.89° 58'E., on a true line, bet. secs.19 and 30.
 Over level land.
 41.79 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
 the ground for $\frac{1}{4}$ sec.cor.,of secs. 19 and 30, with
 brass cap, marked,
 $\frac{1}{4}$ S 19 in N., and
 $\frac{1}{4}$ S 30, 1913 in S-half;
 dig pits, 18x18x12 ins., E. and W.of post, 3 ft. dist.,
 and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,
 north of corner.
 81.79 Corner of secs. 19,20,29 and 30.
 Land,level.
 Soil, sandy, with volcanic ash, 2nd rate.
 Timber, a few scattering palo verde trees.
 Undergrowth, greasewood.
 September 13, 1913.

Sept. 15, 1913:
 At 8h.0m. a.m., l.m.t., I set off 32°58'N. on the lat.
 arc; 3°03'N. on the decl.arc, and determine a meri-
 dian with the solar at the cor.of secs.19,20,29 and 30.
 Thence I run,
 S.0°03'E., on a true line, bet. secs.29 and 30.
 Over level land.
 40.00 Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec.cor. of secs.29 and 30, with
 brass cap, marked,
 $\frac{1}{4}$ S 30 in W.,
 S 29 in E., and
 1913 in S-half;
 dig pits 18x18x12 ins., N.and S.of post, 3 ft. dist.,
 and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,
 west of corner.
 80.00 Set an iron post 3 ft.long, 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 14 W S 29 in NE.,
 S 32 in SE., and
 S 31 in SW. quadrant;
 1913 in S-half;
 dig pits, 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist.,
 and raise a mound of earth, 4 ft. base, 2 ft. high,
 west of cor.
 Land,level.
 Soil, sandy, with volcanic ash, 2nd rate.
 Timber, a few scattering palo verde trees.
 Undergrowth, greasewood.

East, on a random line, bet. secs.29 and 32.
 40.00 Set temp. $\frac{1}{4}$ sec.cor. of secs. 29 and 32.
 80.03 Intersect north and south line, 19 lks.south of the corner
 of secs. 28,29, 32 and 33.
 Thence I run,

BOOK 2702

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

Chains.

- S. $89^{\circ}52'W.$, on a true line, bet. secs. 29 and 32.
Over level land.
- 40.015 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 in N., and
S 32, 1913 in S-half;
dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, north of corner.
- 80.03 Cor. of secs. 29, 30, 31 and 32.
Land, level.
Soil, sandy, with volcanic ash, 2nd rate.
Timber, none.
Undergrowth, greasewood.
-
- Sept. 15: At the cor. of secs. 29, 30, 31 and 32, I set off $3^{\circ} 03' N.$ on the decl. arc; and at 11h. 55m. l.m.t., I observe the sun on the meridian; the resulting lat. is $32^{\circ} 57\frac{1}{2}' N.$
Thence I run,
West, on a random line, bet. secs. 30 and 31.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor. of secs. 30 and 31.
- 81.81 Intersect west bdy. of the Tp., 5 lks. south of the cor. of secs. 25, 30, 31 and 36, established by me, as described in Book "A."
Thence I run,
S. $89^{\circ}58' E.$, on a true line, bet. secs. 30 and 31.
Over level land.
- 17.00 Old road, brs. NW. and SE.
- 41.81 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 in N., and
S 31, 1913 in S-half;
dig pits 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, north of cor.
- 81.81 Cor. of secs. 29, 30, 31 and 32.
Land, level.
Soil, sandy, with volcanic ash, 2nd rate.
Timber, none.
Undergrowth, greasewood.
-
- S. $0^{\circ} 03' E.$, on a true line, bet. secs. 31 and 32.
Over level land.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 31 and 32, with brass cap, marked,
 $\frac{1}{4}$ S 31 in W.,
S 32 in E., and
1913 in S-half;

Chains

53.20
82.34

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

Old road brs. NW. and SE.

Intersect south bdy of the township (1st. Standard Parallel South) 164 lks. S. $89^{\circ} 56'$ E. of the old standard cor. of secs. 31 and 32, which has been changed to A P by W. H. Thorn, U.S. Surveyor, as described in Book "C."

At point of intersection, I set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for C C of secs. 31 and 32, with brass cap, marked,

T 5 S R 14 W in N. half;
C C N. of center,
S 31 in NW. quadrant; and
S 32 in NE. quadrant;
1913 in S. half;

dig pits, 24x18x12 ins., crosswise on each line, E. and W. 3 ft., and N. of post 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, north of cor.

Land, level.
Soil, sandy, with volcanic ash, 2nd rate.
Timber, none.
Undergrowth, greasewood.

Sept. 15, 1913.

GENERAL DESCRIPTION.

The NE. half of this township is mountainous, rough and worthless. The soil in the SE. half is good rate, and with water could be made to produce good crops. There is a little native grass growing along the shallow washes.

Scattering ironwood and palo verde grow throughout this township.

There are no homesteaders, and no one lives in this township. There is no water.

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

H. A. Simulff
U.S. Transitman.

246
32

FOR-FINAL OATH^{ES} 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, 1914

The foregoing field notes of the survey of _____

the Subdivision lines of

Township N^o 5 South, Range N^o 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 N^o 288, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Grand
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.~~