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Orbit

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Mar 5-1917

2906

Book "P"
4-679

(Subdivisions)

BOOK 2906

FIELD NOTES

OF THE SURVEY OF THE

PARTIAL SUBDIVISION

OF

TOWNSHIP 8 SOUTH, RANGE 3 EAST,

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 July 29, 1914,
issued by the United States Surveyor General to govern surveys included in
Group No. 38, which were approved by the Commissioner of the General Land
Office, September 5, 1914.

Survey commenced April 10, 1915.

Survey completed April 14, 1915.

Executed under assignment
Instructions dated Sept. 30, 1914.

2906

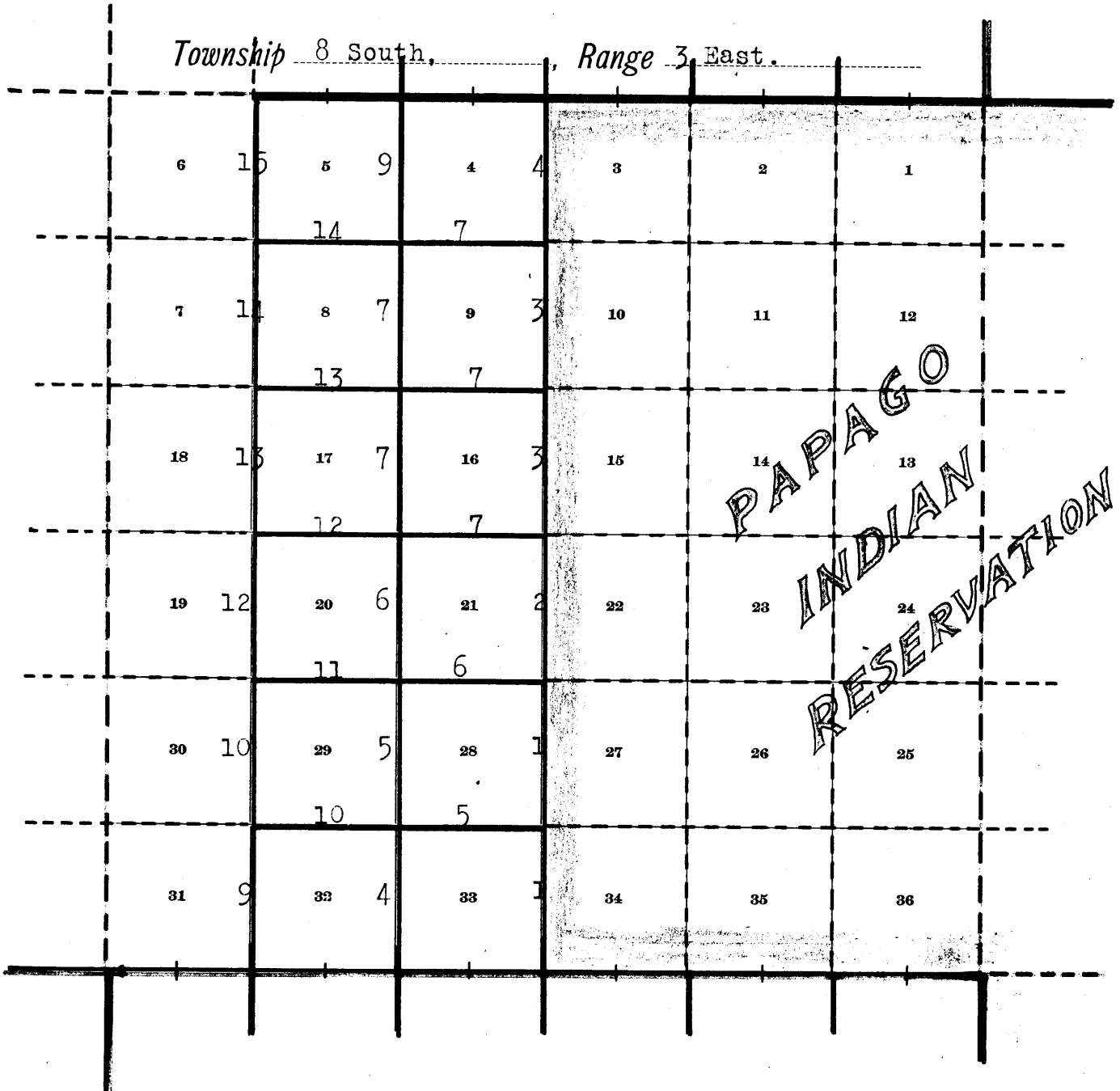
2906

250
1A




Book "P."
(Subdivisions)
Group 38 - Arizona.

ECOR 2906

INDEX DIAGRAM.



PAPAGO
INDIAN
RESERVATION

-  Subdivision lines surveyed under this group.
-  Township bdrs. - Notes in Book "B."
-  Unsurveyed.

Partial Subdivision of Township 8 South, Range 3 East

Chains.

In the following notes the initials W.H.T. and W.K.K. are inserted at the beginning and ending of those portions of the notes describing the surveys by W.H.Thorn,U.S. Surveyor, and W.K.Kierulff,U.S.Transitman, respectively.

W.H.T.

Survey commenced Apr.10,1915, and executed with a Young and Son's light mountain transit No.8592, described in Book "A."

The transit and solar attachment were tested on a meridian established by W.K.Kierulff,U.S.Transitman, April 4, 1915, at a point near camp, in sec.15, T.9 S., R.2 E., as described in the notes of April 4, page 1, book "O."

P.m. and a.m. observations on this meridian, gave solar meridians identical with the test meridian. I therefore conclude that the adjustments of the transit and solar apparatus are satisfactory.

NOTE: The meridional section line through middle of this township is a portion of the west boundary of Papago Indian Reservation; therefore, in my survey of said line, I mark the brass caps of the cors. thereon, "P.I.R" on their east halves, indicating thereby that the land east of the line is within the Papago Indian Reservation. The other markings on the caps refer to the secs. west of the line only.

At 9h. a.m., l.m.t., I set off 32°41'N. on the lat. arc; 7°44'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3, 4, and 33 on S. bdy. of Tp. described in Book "B."

Thence I run,

N.0°2'W. on E. bdy. of sec. 33.

Over gently rolling land, through greasewood brush, scattering palo verde and ironwood.

4.70 Wash, 15 lks. wide, 2 ft. deep, course S.40°E.

9.50 Wash, 30 lks. wide, 2 ft. deep, course S.50°E.

25.00 Wash, 30 lks. wide, 2 ft. deep, course S.50°E.

37.60 Wash, 20 lks. wide, 3 ft. deep, course SE.

40.00 Set an iron post 3 ft. long, 1 in. indiam., 26 ins. in the ground for $\frac{1}{2}$ sec. cor. of sec. 33, with brass cap, marked

S 33 on W. half;

P I R on E. half,

1915 on S rim.

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.

44.10 Wash, 35 lks. wide, 3 ft. deep, course S.80°E.

49.70 Wash, 15 lks. wide, 2 ft. deep, course S.40°E.

59.60 Wash, 15 lks. wide, 2 ft. deep, course S.60°E.

60.00 Enter stony land, brs. E. and W.

70.80 Wash, 25 lks. wide, 2 ft. deep, course 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. 28 and 33, with brass cap, marked

T. 8 S R 3 E on N. half;

P I R on E. half;

S 33 in SW., and

S 28 in NW. quadrants;

1915 on S. rim.

Dig pits 24x24x12 ins. SW. and NW. of post, 6 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.

Land, gently rolling, very gradual SE. slope.

Soil, sandy and gravelly, decomposed granite, 3rd rate.

Timber, scattering palo verde and ironwood.

Undergrowth, greasewood brush, catclaw, ocotillos and cacti.

N.0°2'W. on E. bdy. of sec. 28.

Over gently rolling land, through greasewood brush, scattering palo verde and ironwood.

7.10 Wash, 35 lks. wide, 2 ft. deep, course S.60°E.

15.00 Enter stony land, brs. E and W.

2. Partial Subdivision of Township 8 South, Range 3 East.

Chains.	
25.80	Wash, 35 lks.wide, 2 ft. deep, course S.70° E.
40.00	Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec.cor.of sec.28, with brass cap, marked $\frac{1}{4}$ S 28 on W., and P I R in E.half; 1915 on S.rim. 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.
43.10	Wash, 25 lks.wide, 3 ft. deep, course S.70° E.
51.70	Wash, 30 lks.wide, 2 ft. deep, course S. 70° E.
64.60	Wash, 25 lks.wide, 3 ft. deep, course S.70° E.
73.50	Wash, 25 lks.wide, 2 ft. deep, course S.70°E.
80.00	Set an iron post 3 ft.long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 21 and 28, with brass cap, marked T 8 S R 3 E on N.,and; P I R on E.half; S 28 in SW., and S 21 on NW. quadrants; 1915 on S.rim. Build a mound of stone, 3 ft. base, $2\frac{1}{2}$ ft. high,W.of cor. Land,rolling, gradual SE. slope. Soil,sand, gravel and decomposed granite,3rd rate. Timber, scattering palo verde and ironwood. Undergrowth, greasewood brush, ocotillos and cacti.

	N.0°2' W. on E.bdy.of sec. 21. Over rolling and hilly land, through greasewood brush and scattering palo verde and ironwood.
6.70	Ravine,80 lks.wide, 10 ft. deep, course S 60°E.
23.10	Wash, 40 lks.wide, 3 ft. deep, course S.50°E.
25.00	Change to west slope.
35.00	Descend gradual NW. slope.
39.30	Wash, 15 lks.wide, 3 ft. deep, course E.
40.00	Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec.cor.of sec.21, with brass cap, marked $\frac{1}{4}$ S 21 on W., and P.I R on E. half; 1915 on S.rim. Build a mound of stone, 3 ft.base, 2 ft.high,W.of cor. Ascend S. slope, 45 ft.to Descend N. slope to
49.45	Descend N. slope to
54.62	Wash, 30 lks.wide, 3 ft. deep, course E.
59.75	Wash, 15 lks.wide, 5 ft. deep, course E. Thence over rolling land to
80.00	Set an iron post 3 ft.long, 2 ins. in diam., 24 ins. in the ground for cor.of secs. 16 and 21, with brass cap, marked T 8 S R 3 E on N., and P I R on E.half; S 21 in SW., and S 16 in NW.quadrants; 1915 on S rim. of post Dig pits 24x24x12 ins. SW. and NW, 6 ft. dist., and raise a mound of earth 4 ft.base, 2 ft.high,W.of cor. Land, rolling and hilly. Soil, sand and gravel, covered with volcanic rock, 4th rate. Timber, scattering palo verde. and ironwood. Undergrowth, greasewood brush, ocotillos and cacti. At this cor., I set off 7° 46' N.on the decl.arc; and at apparent noon, observe the sun on the meridian;the resulting lat. is 32° 44'N.

Partial subdivision of T.8 S., R.3 E.

Chains	
	N. 0° 2' W. along E. bdy. of sec. 16. Over rolling land, through greasewood brush and scattering palo verde.
.80	Wash, 15 lks. wide, 1 ft. deep, course, E.
12.50	Wash, 15 lks. wide, 1 ft. deep, course, SE. Asc. SW. slope of hill 171 ft. to
37.50	Desc. NW. slope, 27 ft. to
40.00	Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in the ground to solid rock, in a mound of stone, 4 ft. base, 1 1/2 ft. high for 1/4 sec. cor. of sec. 16, with brass cap mkd. 1/4 S 16 on W., and P I R on E. half; 1915 on S. rim.
	Build a mound of stone, 3 ft. base, 2 ft. high W. of cor. From this cor. a signal on top of Table Top mountain brs. N. 72° 25' W.
	Desc. NW. slope
54.00	Foot of hill brs. NE. and SW., 132 ft. desc.
60.15	Wash, 30 lks. wide, 2 ft. deep, course, N. 40° E.
66.65	Wash, 40 lks. wide, 2 ft. deep, course, N. 40° E.
74.90	Wash, 20 lks. wide, 4 ft. deep, course, N. 30° E.
80.00	Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 9 and 16, with brass cap mkd. T 8 S R 3 E on N. and P I R on E. half, S 16 in SW. and S 9 in NW. quadrants, 1915 on S. rim.
	Build a mound of stone, 3 ft. high, 2 ft. base, W. of cor. Land, rolling and hilly. Soil, sand, gravel and stony, 4th rate. Timber, scattering scrub palo verde. Undergrowth, greasewood brush, scattering scrub palo verde and ocotillos.
	N. 0° 2' W. along E. bdy. of sec. 9. Over rolling land, through greasewood brush and scattering palo verde timber.
10.00	Wash, 20 lks. wide, 3 ft. deep, course, E.
17.30	Wash, 40 lks. wide, 3 ft. deep, course, N. 80° E.
23.00	Asc. gradual S. slope, 25 ft. to
28.25	Desc. gradual N. slope, 27 ft. to
34.35	Wash, 30 lks. wide, 3 ft. deep, course, N. 80° E.
40.00	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for 1/4 sec. cor. of sec. 9, with brass cap mkd. 1/4 S 9 on W. and P I R on E. half, 1915 on S. rim.
	Build a mound of stone, 3 ft. base, 2 ft. high W. of cor.
54.80	Wash, 30 lks. wide, 3 ft. deep, course, N. 60° E.
65.00	Wash, 40 lks. wide, 3 ft. deep, course, E.
72.80	Wash, 30 lks. wide, 4 ft. deep, course, N. 80° E.
80.00	Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 4 and 9 with brass cap mkd. T 8 S R 3 E on N. and P I R on E. half, S 9 in SW. and S 4 in NW. quadrants, 1915 on S. rim.
	Build a mound of stone, 3 ft. base, 2 ft. high W. of cor. Land, rolling. Soil, sand and gravel, covered with volcanic rock, 4th rate. Timber, scattering palo verde, and iron wood. Undergrowth, greasewood brush, catclaw, sagebrush, ocotillos and cacti.

4.

Partial subdivision of T.8 S. R.3 E.

Chains.

North on a random line on E. bdy. of sec. 4.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.93 Intersect N. bdy. of tp. 2 lks. W. of cor. of secs.
 4, 33 and 34, established by W.K.Kierulff,
 U.S. Transitman, and described in book "B".
 Thence I run
 S. $0^{\circ} 1'$ W. on a true line on E. bdy. of sec. 4.
 Over rolling land; through greasewood brush and scattering
 palo verde.
 3.13 Wash, 20 lks. wide, 2 ft. deep, course, N. 60° E.
 19.90 Wash, 20 lks. wide, 3 ft. deep, course, N. 50° E.
 23.10 Dim road, brs. NW. and SE.
 30.50 Wash, 20 lks. wide, 3 ft. deep, course, N. 50° E.
 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 sec. 4, with brass cap,
 marked
 $\frac{1}{4}$ S 4 on W. and
 P I R on E. half;
 1915 on S. rim.
 Dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist.
 and raise a mound of earth $3\frac{1}{2}$ ft base, $1\frac{1}{2}$ ft. high
 W. of cor.
 41.90 Wash, 100 lks. wide, 3 ft. deep, course, NE.
 45.80 Wash, 15 lks. wide, 3 ft. deep, course, N. 70° E.
 59.90 Wash, 20 lks. wide, 4 ft. deep, course, N. 50° E.
 75.60 Wash, 20 lks. wide, 3 ft. deep, course, N. 60° E.
 79.93 Cor. of secs. 4 and 9.
 Land, rolling.
 Soil, sand and gravel, 3rd rate.
 Timber, scattering palo verde and iron wood.
 Undergrowth, greasewood brush, cat claw, sagebrush,
 ocotillos and cacti.

Apr. 10, 1915.

Apr. 12, 1915, at 8h. 30m., a.m., 1.m.t., I set off
 $32^{\circ} 41'$ N. on the lat. arc; $8^{\circ} 28'$ N. on the decl. arc;
 and determine a mer. with the solar, at the cor. of
 secs. 4, 5, 32 and 33, on S bdy. of tp. described in
 in Book "B."

Thence I run

N. $0^{\circ} 2'$ W. bet. secs. 32 and 33.
 Over gently rolling land, through greasewood brush,
 scattering palo verde and iron wood timber.
 1.10 Wash, Wash, 20 lks. wide, 2 ft. deep, course, S. 30° E.
 4.60 Wash, 15 lks. wide, 1 ft. deep, course, S. 30° E.
 7.40 Wash, 25 lks. wide, 1 ft. deep, course, S. 30° E.
 17.00 Wash, 30 lks. wide, 5 ft. deep, course, S. 50° E.
 38.10 Wash, 25 lks. wide, 2 ft. deep, course, S. 50° E.
 40.00 Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor. with brass cap mkd.
 $\frac{1}{4}$ S 32 on W., and,
 S 33 on E. half;
 1915 on S. rim.
 from which,
 An iron wood, 8 ins. in diam., brs. N. $11^{\circ} 30'$ W.
 101 lks. dist. mkd. $\frac{1}{4}$ S 32 B T.
 No other trees within limits.
 Dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist,
 and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high
 W. of cor.
 40.95 Wash, 20 lks. wide, 2 ft. deep, course, S. 40° E.
 63.50 Wash, 40 lks. wide, 1 ft. deep, course, S. 50° E.
 64.50 Wash, 30 lks. wide, 1 ft. deep, course, S. 50° E.
 71.70 Wash, 30 lks. wide, 1 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. 28, 29, 32 and 33, with
 brass cap mkd.

T 8 S R 3 E on N. half;

S 28 in NE.

S 33 in SE.

S 32 in SW. and

S 29 in NW. quadrants,

1915 on S. rim.

Partial subdivision of T.8 S. R.3 E.

Chains

from which,
 A palo verde 8 ins. in diam., brs. S. 30° 20' E.
 83 lks. dist. mkd. T 8 S.R 3 E S 33 B T.
 No other trees within limits.
 Dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist. and
 raise a mound of earth, 4 ft. base, 2 ft. high W. of
 cor.
 Land, gently rolling.
 Soil, sand, gravel and decomposed granite, 3rd rate.
 Timber, scattering palo verde and iron wood.
 Undergrowth, greasewood brush, catclaw, sagebrush,
 ocotillos and cacti.

40.00 East on a random line bet. secs. 28 and 33.
 79.98 Set temp, ¼ sec. cor.
 Intersect W.bdy of Papago Indian Reservation. 2 lks. N. of cor of
 secs. 28, and 33.
 Thence I run
 N. 89° 59' W. on a true line bet secs. 28 and 33.
 Over gently rolling land, through greasewood brush and
 scattering palo verde and iron wood timber.
 39.99 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground for ¼ sec. cor. with brass cap mkd.
 ¼ S 28 on N. and
 S 33 on S. half;
 1915 on S. rim.
 Dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist.
 and raise a mound of earth, 3½ ft. base, 1½ ft. high
 W. of cor.
 49.70 Wash, 20 lks. wide, 2 ft. deep, course, S. 50° E.
 57.80 Wash, 15 lks. wide, 1 ft. deep, course, SE.
 60.00 Wash, 15 lks. wide, 1 ft. deep, course, NE.
 63.00 Wash, 15 lks. wide, 1 ft. deep, course, SE.
 79.98 Cor. of secs. 28, 29 32 and 33.
 Land, rolling.
 Soil, sand and gravel, 3rd rate.
 Timber, scattering palo verde and iron wood.
 Undergrowth, greasewood brush, sagebrush, ocotillos and
 cacti.

N. 0° 2' W. bet. secs. 28 and 29.
 Over rolling land, through greasewood brush and scattering
 palo verde and ironwood.
 8.20 Wash, 15 lks. wide, 1 ft. deep, course, S. 40° E.
 10.60 Wash, 30 lks. wide, 1 ft. deep, course, S. 60° E.
 28.40 Wash, 50 lks. wide, 1 ft. deep, course, S. 70° E.
 32.00 Enter stony land.
 39.60 Wash, 40 lks. wide, 4 ft. deep, course, E.
 40.00 Set an iron post 3 ft. long, 1 in in diam., 26 ins. in
 the ground for ¼ sec. cor. with brass cap mkd.
 ¼ S 29 on W. and
 S 28 on E. half;
 1915 on S. rim.
 Build a mound of stone, 3 ft. base, 2 ft. high W. of cor.
 46.50 Wash, 20 lks. wide, 3 ft. deep, course, SE.
 58.10 Wash, 50 lks. wide, 5 ft. deep, course, S. 70° E.
 72.70 Wash, 50 lks. wide, 6 ft. deep, course, S. 80° E.
 80.00 Set an iron post 3 ft long, 2 ins. in diam., 24 ins. in
 the ground for cor. of secs. 20, 21, 28, and 29, with
 brass cap mkd.
 T 8 S.R 3 E on N. half,
 W 21 in NE.
 S 28 in SE.
 S 29 in SW. and
 S 20 in NW. quadrants,
 1915 on S. rim.

from which,
 An iron wood 6 ins. in diam., brs. N. 53° 30' W.
 190 lks. dist. mkd. T 8 S R 3 E S 20 B T.

6.

Partial subdivision of T.8 S., R.3 E.

Chains

No other trees within limits.
 Build a mound of stone, 3 ft. base, 2 ft. high W. of cor.
 Land, rolling.
 Soil, on S. half, gravelly and sandy. 3rd rate; on N. half,
 stony, 4th rate.
 Timber, scatterin gppalo verde and iron wood.
 Undergrowth, greasewood brush, sagebrush, ocotillos and
 cacti.
 At this cor. I set off 8° 31' N. on the decl. arc; and
 at apparent noon observe the sun on the mer.; the
 resulting lat. is 32° 43' N.

East on a random line bet. secs. 21 and 28.

40.00

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

80.00

Intersect W. bdy. of Papago Indian Reservation 5 lks. N. of
 cor. of secs. 21 and 28.

Thence I run

N. 89° 58' W. on a true line bet. secs. 21 and 28.

Over rolling land through palo verde and iron wood timber
 and scattering greasewood brush.

14.20

Wash, 35 lks. wide, 1 ft. deep, course, S. 60° E.

40.00

Set an iron post 3 ft. long, 1 in. in diam., 26 ins in
 the ground for $\frac{1}{4}$ sec. cor. with brass cap mkd.

$\frac{1}{4}$ S 21 on N. and

S 28 on S. half,

1915 on S. rim.

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

71.50

Wash, 30 lks. wide, 1 ft. deep, course, S. 70° E.

80.00

Cor. of secs. 20, 21, 28 and 29.

Land, rolling.

Soil, gravelly, stony, decomposed granite covered with
 volcanic rock, 4th rate.

Timber, scattering palo verde and iron wood,

Undergrowth, greasewood brush, sagebrush, ocotillos and
 cacti.

N. 0° 2' W. bet. secs. 20 and 21.

Over rolling land, through greasewood brush and scattering
 palo verde.

5.80

Wash, 15 lks. wide, 1 ft. deep, course, SE.

18.00

Wash, 35 lks. wide, 1 ft. deep, course, E.

29.80

Wash, 15 lks. wide, 1 ft. deep, course, E.

36.30

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

40.00

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor. with brass cap mkd.

$\frac{1}{4}$ S 20 on W. and

S 21 on E. half,

1915 on S. rim.

Build a mound of stone, 3 ft. base, 2 ft. high W. of cor.

41.50

Wash, 20 lks. wide, 5 ft. deep, course, E.

Asc. S. slope, 63 ft. to

48.93

Top of ridge brs. E. and W.

Desc. N. slope, 65ft. to

56.77

Wash, 30 lks. wide, 2 ft. deep, course, E.

Asc. S. slope, 80 ft. to

67.20

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

Desc. 44 ft. to

75.00

Leave stony ground brs. E. and W.

79.40

Wash, 60 lks. wide, 3 ft. deep, course, S. 80° E.

80.00

Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in
 the ground for cor. of secs. 16, 17, 20 and 21, with
 brass cap mkd.

T. 8 S R 3 E on N. half,

S 16 in NE.

S 21 in SE.

S 20 in SW. and

S 17 in NW. quadrants,

1915 on S. rim.

Partial subdivision of T.8 S. R.3 E.

Chains

Dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist. and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.
Land, rolling.
Soil, gravelly and stony, 4th rate.
Timber, scattering palo verde and iron wood.
Undergrowth, greasewood brush, ocotillos and cacti.

40.00 East on a random line bet. secs. 16 and 21.
80.02 Set temp. ¼ sec. cor.
Intersect W.bdy. of Papago Indian Reservation 9 lks. N. of cor. of secs. 16 and 21.

Thence I run
N. 89° 56' W. on a true line bet. secs. 16 and 21.
Over gently rolling land.
40.01 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec. cor. with brass cap mkd.
¼ S 16 on N. and,
S 21 on S. half,
1915 on S. rim.

Dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth, 3½ ft. base. 1½ ft. high N. of cor.

75.00 Wash, 40 lks. wide, 2 ft. deep, course, N. 80° E.
80.02 Cor. of secs. 16, 17, 20 and 21.
Land, gently rolling.
Soil, gravelly, decomposed granite, 3rd rate.
Timber, scattering palo verde.
Undergrowth, greasewood brush, ocotillos and cacti.
Apr. 12, 1915.

Apr. 13, 1915, at 8h. a.m., l.m.t., I set off 32° 43½' N. on the 1st. arc; 8° 49' N. on the decl. arc; and determine a mer. with the solar, at the cor. of secs. 16, 17, 20 and 21.

Thence I run
N. 0° 2' W., bet. secs. 16 and 17.
Over rolling land, through greasewood brush and scattering palo verde timber.

11.20 Wash, 60 lks. wide, 8 ft. deep, course, E.
32.50 Wash, 40 lks. wide, 1 ft. deep, course, E.
40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec. cor. with brass cap mkd.
¼ S 17 on W. and,
S 16 on E. half,
1915 on S. rim.

Build a mound of stone, 3 ft. base, 2 ft. high W. of cor.
46.00 Wash, 45 lks. wide, 1 ft. deep, course, E.
53.20 Wash, 40 lks. wide, 1 ft. deep, course, E.
60.85 Wash, 20 lks. wide, 1 ft. deep, course, E.
64.80 Wash, 80 lks. wide, 10 ft. deep, course, E.
Enter stony land.

71.90 Wash, 50 lks. wide, 1 ft. deep, course, E.
80.00 Set an iron post 3 ft. long, 2 ins. in diam., 18 ins. in the ground to solid rock, in a mound of stone, 3 ft. base, 1 ft. high, for cor. of secs. 8, 9, 16 and 17, mkd.

T 8 S R 3 E on N. half
S 9 in NE.
S 16 in SE.
S 17 in SW. and
S 8 in NW. quadrants,
1915 on S. rim.

Build a mound of stone, 3 ft. base, 2 ft. high W. of cor.
Land, rolling.
Soil, stony, 3rd rate.
Timber, scattering palo verde.
Undergrowth, greasewood, ocotillos and cacti.

Chains.	
	East on a random line bet. secs. 9 and 16.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect W.bdy. of Papago Indian Reservation 3 lks. N. of $\frac{1}{4}$ sec. cor. of secs. 9 and 16.
	Thence I run
	N. $89^{\circ} 59'$ W. on a true line bet. secs. 9 and 16.
	Over rolling land, through palo verde and iron wood, and scattering sagebrush and greasewood brush.
27.90	Wash, 60 lks. wide, 5 ft. deep, course, NE.
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 mkd. $\frac{1}{4}$ S 9 on N. and S 16 on S. half, 1915 on S. rim.
	Build a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
70.50	Bend in wash, 15 lks. wide, 2 ft. deep, course, from NW. to NE.
80.00	Cor. of secs. 8, 9, 16 and 17. Land, rolling. Soil, gravel, decomposed granite and stony, 4th rate. Timber, scattering palo verde, and iron wood. Undergrowth, greasewood brush, ocotillos and cacti.
	N. $0^{\circ} 2'$ W. bet. secs. 8 and 9.
	Over rolling land, through greasewood brush and scattering palo verde.
3.10	Wash, 30 lks. wide, 6 ft. deep, course, E.
8.00	Wash, 40 lks. wide, 2 ft. deep, course, SE.
17.17	Top of low ridge, 17 ft. high, brs. E. and W.
25.75	Wash, 40 lks. wide, 1 ft. deep, course, E.
26.95	Wash, 30 lks. wide, 1 ft. deep, 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 mkd. $\frac{1}{4}$ S 8 on W. and S 9 on E. half, 1915 on W. rim.
	Build a mound of stone, 3 ft. base, 2 ft. high W. of cor.
45.20	Wash, 30 lks. wide, 1 ft. deep, course, E.
52.20	Wash, 40 lks. wide, 1 ft. deep, course, E.
70.40	Wash, 30 lks. wide, 1 ft. deep, course, E.
77.50	Ravine, 50 lks. wide, 8 ft. deep, course, NE.
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 mkd. T 8 S. R 3 E on N. half, S 4 in NE. S 9 in SE. S 8 in SW. and S 5 in NW. quadrants, 1915 on S. rim.
	Dig pits 18 X 18 X 12 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, rolling. Soil, gravelly and rocky, 4th rate. Timber, scattering palo verde. Undergrowth, greasewood brush, ocotillos and cacti. At this cor. I set off $8^{\circ} 53'$ N. on the decl. arc; and at apparent noon observe the sun on the mer.; the resulting lat. is $32^{\circ} 45'$ N.
	East on a random line bet. secs. 4 and 9.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.11	Intersect W.bdy. of Papago Indian Reservation at Cor. of 10. Thence I run, West on a true line bet. secs. 4 and 9. Over rolling land, through greasewood brush and scattering palo verde and iron wood timber.

Partial subdivision of T.9 S., R.3 E.

Chains
40.05½

Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in the ground to solid rock, in a mound of stone, 3 ft. base, 1½ ft. high, for ¼ sec. cor. with brass cap mkd. ¼ S 4 on N., and S 9 on S. half; 1915 on S. rim.

40.70
50.30
77.20
80.11

Build a mound of stone, 3 ft. base 2 ft. high N. of cor.
Wash, 30 lks. wide, 2 ft. deep, course, NE.
Wash, 40 lks. wide, 2 ft. deep, course, NE.
Wash, 50 lks. wide, 6 ft. deep, course, NE.
Cor. of secs. 4, 5, 8 and 9.
Land, rolling.
Soil, gravelly and stony, 4th rate.
Timber, scattering palo verde.
Undergrowth, greasewood brush, ocotillos and cacti.

40.00
79.95

North on a random line bet. secs. 4 and 5.
Set temp ¼ sec. cor.
Intersect N. bdy. of tp. 13 lks. W. of cor. of secs. 4, 5, 32 and 33, established by W.K.Kierulff, U.S. Transitman, and described in book "B".
Thence I run
S. 0° 6' W. on a true line bet. secs. 4 and 5.
Over rolling land, through greasewood brush and scattering palo verde, and iron wood.

12.35
19.15
36.15
39.95

Wash, 40 lks. wide, 1 ft. deep, course, NE.
Road, brs. NW. and SE.
Wash, 80 lks. wide, 1 ft. deep, course, N. 60° E.
Set an iron post 3 ft. long, 1 in. in diam., 18 ins. in the ground to solid rock, in a mound of stone, 3 ft. base, 1 ft. high, for ¼ sec. cor. with brass cap mkd. ¼ S 5 on W. and S 4 on E. half; 1915 on S. rim.

from which,
An iron wood 6 ins. in diam., brs. S. 32½° W. 89 lks. dist. mkd. ¼ S 5 B T.
An iron wood 8 ins. in diam., brs. N. 89° E. 85 lks. dist. mkd. ¼ S 4 B T.

42.35
47.65
57.55
64.95
79.95

Wash, 40 lks. wide, 1 ft. deep, course, N. 60° E.
Wash, 40 lks. wide, 5 ft. deep, course, N. 70° E.
Wash, 20 lks. wide, 2 ft. deep, course, N. 40° E.
Wash, 40 lks. wide, 1 ft. deep, course, NE.
Cor. of secs. 4, 5, 8 and 9.
Land, rolling.
Soil, gravelly and stony, 4th rate.
Timber, scattering palo verde and iron wood.
Undergrowth, greasewood brush and cacti.
W.H.T. Apr. 13, 1915.

W.K.K.
Survey commenced April 13, 1915, and executed with a Young and Son's light mountain transit No. 8492, described in book "A".
From recent and repeated field tests I know the transit and solar apparatus to be in satisfactory adjustment. For subsequent tests on a mer. established by observations on Polaris, see notes of Apr. 5, 1915, in book "O".
Apr. 13, at 9h., a.m., l.m.t., I set off 32° 40' N. on the lat. arc; 8° 50' N. on the decl. arc; and determine a mer. with the solar, at the cor. of secs. 5, 6, 31 and 32 on S. bdy. of Tpe, described in Book "B".

20.00

Thence I run
N. 0° 3' W. bet. secs. 31 and 32.
Over rolling land, through greasewood brush, palo verde and iron wood timber, ocotillos and cacti.
Wash, 100 lks. wide, 10 ft. deep, course, S. 70° E.

10.

Partial subdivision of T.8 S., R.3 E.

Chains	
37.50	Wash, 35 lks. wide, 7 ft. deep, course, E.
40.00	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. with brass cap mkd. $\frac{1}{4}$ S 31 on W., and S 32 on E. half; 1915 on S. rim.
41.50	Build a mound of stone, $3\frac{1}{2}$ ft. base, $2\frac{1}{2}$ ft. high W. of cor. Asc. SW. slope, 30 ft. to
45.00	Top of spur slopes W. Desc. NW. slope, 23 ft. to
50.00	Foot of desc. brs. E. and W.
53.00	Wash, 100 lks. wide, 15 ft. deep, course, E. Asc. S. slope, 50 ft. to
72.60	Top of spur slopes E. Desc. 30 ft. to
76.70	Asc. 38 ft. to
80.00	SW. slope of ridge, which brs. NW. and SE. Set an iron post 3 ft. long, 2 ins. in diam., 8 ins. in the ground to solid rock, in a mound of stone, $3\frac{1}{2}$ ft. base, 2 ft. high, for cor. of secs. 29, 30, 31 and 32, with brass cap mkd. T 8 S R 3 E on N. half; S 29 in NE. S 32 in SE. S 31 in SW. and S 30 in NW. quadrants, 1915 on S. rim.
	Pits impracticable. Build a mound of stone, 3 ft. base, 2 ft. high W. of cor. Land, rolling. Soil, gravel and decomposed granite, 3rd rate. Timber, scattering palo verde and iron wood, Undergrowth, greasewood brush, ocotillos and cacti.
	East on a random line bet. secs. 29 and 32.
40.00	Set temp $\frac{1}{4}$ sec. cor.
80.05	Intersect N. and S. line, 4 lks. S. of cor. of secs. 28, 29, 32 and 33. Thence I run: S. $89^{\circ} 58'$ W. on a true line bet. secs. 29 and 32. Over rolling land, through greasewood brush, scattering palo verde and iron wood timber and cacti.
15.05	Wash, 100 lks. wide, 11 ft. deep, course, S. 60° E.
25.05	Wash, 25 lks. wide, 1 ft. deep, course, S. 60° E.
31.05	Wash, 100 lks. wide, 1 ft. deep, course, S. 60° E.
40.02 $\frac{1}{2}$	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 mkd. $\frac{1}{4}$ S 29 on N. and S 32 on S. half; 1915 on S. rim.
	Dig pits 18 X 18 X 12 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.
70.00	Asc. SW. slope, 94 ft. to
80.05	Cor. of secs. 29, 30, 31 and 32. Land, rolling. Soil, gravelly and stony, 4 th rate. Timber, scattering palo verde and iron wood. Undergrowth, greasewood brush, ocotillos and cacti. W.K.K.
	We do not survey line bet. secs. 30 and 31. W.H.T. & W.K.K.
	W.K.K. N. 0° 3' W. bet. secs. 29 and 30. Asc. SW. slope of ridge, 122 ft. to
5.50	Top of ridge, brs. NW. and SE. Desc. NE. slope, 148 ft. to
11.33	Wash, 15 lks. wide, 3 ft. deep, course, NE.

Partial subdivision of T.8 S., R.3 E.

al.

Chains	
15.50	Asc. SW. slope, 35 ft. to Top of spur slopes E.
20.20	Desc. NE. slope, 85 ft. to Wash, 75 lks. wide, 6 ft. deep, course, E.
25.20	Wash, 50 lks. wide, 4 ft. deep, course, E.
30.20	Asc. SW. slope, 57 ft. to
35.10	Change to W. slope.
36.50	Asc. SW. slope, 147 ft. to
38.50	Top of spur slopes N. 70° W.
40.00	Desc. NE. slope, 30 ft. to Set an iron post 3 ft. long, 1 in. in diam., 18 ins. in the ground to solid rock, in a mound of stone, 3½ ft. base, 2½ ft. high, for ¼ sec. cor. with brass cap mkd. ¼ S 30 on W., and S 29 on E. half; 1915 on S. rim. Pits impracticable. Build a mound of stone, 3½ ft. base, 2½ ft. high W. of cor. At this cor. I set off 8° 52' N. on the decl. arc; and at apparent noon observe the sun on the mer.; the result- ing lat. is 32° 43' N. Continue measurement. Desc. NE. slope, 93 ft. to Foot of descent.
51.33	Wash, 50 lks. wide, 10 ft. deep, course, E.
80.00	Set an iron post 3 ft. long, 2 ins. in diam., 20 ins. in the ground to solid rock, in a mound of stone of stone, 3½ ft. base, 1 ft. high, for cor. of secs. 19, 20, 29 and 30, with brass cap mkd. T 8 S R 3 E on N. half; S 20 in NE. S 29 in SE. S 30 in SW. and S 19 in NW. quadrants, 1915 on S. rim. Build a mound of stone, 3½ ft. base, 2½ ft. high W. of cor. Land, rolling and hilly. Soil, stony, 4th rate. Timber, scattering palo verde. Undergrowth, ocotillos and cacti.
40.00	East on a random line bet. secs. 20 and 29. Set temp. ¼ sec. cor.
80.10	Intersect N. and S. line, 9 lks. S. of cor. of secs. 20, 21, 28 and 29. Thence I run S. 89° 56' W., on a true line, bet. secs. 20 and 29. Over rolling land, through palo verde and iron wood timber, greasewood brush, ocotillos and cacti.
40.05	Set an iron post 3 ft. long, 1 in. in diam., 18 ins. in the ground to solid rock, in a mound of stone, 3 ft. base, 1½ ft. high, for ¼ sec. cor. with brass cap mkd. ¼ S 20 on N. and S 29 on S. half 1915 on S. rim. Build a mound of stone, 3½ ft. base, 2½ ft. high N. of cor.
65.50	Wash, 50 lks. wide, 5 ft. deep, course, S. 60° E.
80.10	Cor. of secs. 19, 20, 29 and 30. Land, rolling. Soil, gravelly 3rd rate. Timber, scattering palo verde and iron wood. Undergrowth, greasewood brush, mesquite, ocotillos and cacti. W.K.K.

We do not survey line bet. secs. 19 and 30. W.H.T. & W.K.K.

12.

Partial subdivision of T.8 S. R.3 E.

Chains	W.K.K. N. 0° 3' W. bet. secs. 19 and 20. Over rolling land, through ocotillos and cacti. Asc. S. slope, 46 ft. to Top of ridge brs. E. and W. Desc. gradual N. slope.
8.00	
28.00	Asc. SE. slope, 58 ft. to
38.00	Spur slopes SW. Round butte 100 ft. high brs. E. about 5 chs. dist. Desc. NW. slope, 35 ft. to
40.00	Set an iron post 3 ft. long, 1 in. in diam., 8 ins. in the ground, to solid rock, in a mound of stone, 3½ ft. base, 2 ft. high, for ¼ sec. cor. with brass cap mkd. ¼ S 19 on W. and ¼ S 20 on E. half; 1915 on S. rim. Pits impracticable. Build a mound of stone, 3½ ft. base, 2½ ft. high W. of cor. Low ridge, 35 ft. high, brs. N. 30° W. and S. 30° E. Wash, 40 lks. wide, 4 ft. deep, course, NE. 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 mkd. T 8 S R 3 E on N. half; S 17 in NE. S 20 in SE. S 19 in SW. and S 18 in NW. quadrants, 1915 on S. rim. Dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, rolling. Soil, gravelly and stony, decomposed granite formation, 3rd and 4th rates. Timber, scattering palo verde. Undergrowth, ocotillos and cacti.
40.00	East on a random line bet. secs. 17 and 20. Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, 2 lks. S. of cor. of secs. 16, 17, 20 and 21. Thence I run S. 89° 59' W. on a true line bet. secs. 17 and 20. Over rolling land, through scattering palo verde and iron wood. Wash, 75 lks. wide, 5 ft. deep, course, N. 70° W. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec. cor. with brass cap mkd. ¼ S 17 on N. and S 20 on S. half; 1915 on S. rim. from which, A palo verde 8 ins. in diam., brs. N. 68° W. 67 lks. dist. mkd. ¼ S 17 B T. A palo verde, 12 ins. in diam., brs. S. 70° E. 75 lks. dist. mkd. ¼ S 20 B T.
80.00	Cor. of secs. 17, 18, 19 and 20. Land, rolling. Soil, gravelly and stony, 4th rate. Timber, scattering palo verde and iron wood. Undergrowth, ocotillos and cacti.

Apr. 13, 1915. W.K.K.

We do not survey line between secs. 18 and 19. W.H.T. & W.K.K.

Partial subdivision of T.8 S. R.3 E.

13.

Chains W.K.K.
 Apr. 14, 1915, at 8h., a.m., l.m.t., I set off $32^{\circ} 43\frac{1}{2}'$ N. on the lat. arc; $9^{\circ} 11'$ N. on the decl. arc; and determine a mer. with the solar, at the cor. of secs. 17, 18, 19 and 20.
 Thence I run
 N. $0^{\circ} 3'$ W. bet. secs. 17 and 18.
 Over rolling land, through greasewood brush and scattering palo verde and iron wood.
 15.50 Wash, 35 lks. wide, 3 ft. deep, course, N. 70° E.
 22.50 Wash, 25 lks. wide, 2 ft. deep, course, N. 70° E.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. with brass cap mkd.
 $\frac{1}{4}$ S 18 on W., and,
 S 17 on E.-half;
 1915 on S. rim.
 Dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 52.80 Wash, 100 lks. wide, 5 ft. deep, course, E.
 65.00 Wash, 50 lks. wide, 5 ft. deep, course, N. 70° E.
 68.50 Wash, 75 lks. wide, 5 ft. deep, course, E.
 Asc. gradual SW. slope,
 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 6 ins. in the ground to solid rock, in a mound of stone, $3\frac{1}{2}$ ft. base, $2\frac{1}{2}$ ft. high for cor. of secs. 7, 8, 17 and 18, with brass cap mkd.
 T 8 S R 3 E on N. half;
 S 8 in NE.
 S 17 in SE.
 S 18 in SW. and
 S 7 in NW. quadrants,
 1915 on S. rim.
 Pits impracticable.
 Build a mound of stone, $3\frac{1}{2}$ ft. base, 3 ft. high W. of cor.
 Land, rolling and hilly.
 Soil, gravelly and stony, 4th rate.
 Timber, scattering scrub palo verde.
 Undergrowth, ocotillos and cacti.
 W.K.K. Apr. 14, 1915.

W.H.T.
 Apr. 14, 1915, at 8h., a.m., l.m.t., I set off $32^{\circ} 44'$ N. on the lat. arc; $9^{\circ} 11'$ N. on the decl. arc; and determine a mer. with the solar at the cor. of secs. 8, 9, 16 and 17.
 Thence I run
 West on a random line bet. secs. 8 and 17.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.10 Intersect N. and S. line 15 lks. N. of cor. of secs. 7, 8, 17 and 18.
 Thence I run
 N. $99^{\circ} 54'$ E. on a true line bet. secs. 8 and 17.
 Over rolling and hilly land, through greasewood brush and scattering palo verde.
 Asc. W. slope, 45 ft. to
 2.80 Top of ridge, brs. N. and S.
 Desc. E. slope of hill 145 ft.
 10.10 Change to gradual E. slope.
 28.30 Wash, 20 lks. wide, 3 ft. deep, course, S. 70° E.
 30.15 Same wash, course, E.
 32.50 Wash, 20 lks. wide, 3 ft. deep, course, SE.
 Thence over rolling land.
 40.05 Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in the ground to solid rock, in a mound of stone, 3 ft. base, $1\frac{1}{2}$ ft. high, for $\frac{1}{4}$ sec. cor. with brass cap mkd.
 $\frac{1}{4}$ S 8 on N. and
 S 17 on S. half;
 1915 on S. rim.
 Build a mound of stone, 3 ft. base, 2 ft. high N. of cor.

14. Partial subdivision of T.8 S., R.3 E.

Chains

55.10
80.10

Desc. gradual E. slope, 76 ft. to
Cor. of secs. 8, 9, 16 and 17.
Land, rolling and hilly,
Soil, gravelly and stony, 4th rate.
Timber, scattering scrub palo verde and iron wood.
Undergrowth, greasewood brush, ocotillos and cacti.
W.H.T. Apr. 14, 1915.

We do not survey line bet. secs. 7 and 18. W.H.T. & W.K.K.

W.K.K.

Apr. 14, 1915. From cor. of secs. 7, 8, 17 and 18, I run,
N. 0° 3' W. bet. secs. 7 and 8.

Over hilly land.

6.00

Asc. S. slope of ridge, 85 ft. to
Top of ridge extends E. and W. 10 chs. dist.
Desc. N. slope, 67 ft. to

16.73
36.77

Wash, 50 lks. wide, 2 ft. deep, course, E.
Wash, 50 lks. wide, 2 ft. deep, course, E.

40.00

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
the ground for $\frac{1}{4}$ sec. cor. with brass cap mkd.

$\frac{1}{4}$ S 7 on W. and
S 8 on E. half;
1915 on S. rim.

45.00

Build a mound of stone, $3\frac{1}{2}$ ft. base, $2\frac{1}{2}$ ft. high W. of cor.
Wash, 100 lks. wide, 15 ft. deep, course, E.

48.60

Wash, 100 lks. wide, 15 ft. deep, course, E.

72.50

Wash, 100 lks. wide, 10 ft. deep, course, NE.

79.00

Wash, 200 lks. wide, 15 ft. deep, course, N. 70° E.
(center of wash.)

80.00

True point for cor. of secs. 5, 6, 7 and 8, falls in wash
therefore continue measurement N. 0° 3' W., and at

80.59

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

W C T 8 S R 3 E on N. half;
S 5 in NE.
S 8 in SE.
S 7 in SW. and
S 6 in NW. quadrants,
1915 on S. rim.

Build a mound of stone, $3\frac{1}{2}$ ft. base, 3 ft. high W. of cor.
Land, rolling.

Soil, gravelly and stony, 4th rate.
Timber, scattering scrub palo verde.
Undergrowth, ocotillos and cacti.

W.K.K. Apr. 14, 1915.

W.H.T.

Apr. 14, 1915. From true point for cor. of secs. 5, 6, 7 & 8,
East on a random line bet. secs. 5 and 8. I run,

40.00

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

80.12

Intersect N. and S. line 11 lks. N. of cor. of secs. 4, 5
8 and 9.

Thence I run

N. 89° 55' W. on a true line bet. secs. 5 and 8.

28.52

Over rolling land, through palo verde and greasewood brush.

40.06

Wash, 30 lks. wide, 3 ft. deep, course, N. 70° E.
Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
the ground for $\frac{1}{4}$ sec. cor. with brass cap mkd.

$\frac{1}{4}$ S 5 on N. and
S 8 on E. half;
1915 on S. rim.

Dig pits 18 X 18 X 12 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.

73.42

Left bank of ravine, 250 lks. wide, 30 ft. deep, course,
N. 80° E.

80.12

True point for cor. of secs. 5, 6, 7 and 8. (W.C. brs.
N. 0° 3' W., 59 lks. dist.)

Chains

Land, rolling.
 Soil, gravelly and stony, 4th rate.
 Timber, scattering palo verde, and iron wood.
 Undergrowth, greasewood brush and cacti.
 W.H.T. Apr. 14, 1915.

We do not survey line bet. secs. 6 and 7. W.H.T. & W.K.K.

40.00
80.07

W.K.K.
 Apr. 14, 1915. From true point for cor. of secs. 5, 6, 7 & 8, Iron,
 N. 0° 3' W. on a random line bet. secs. 5 and 6.
 Set temp. 1/4 sec. cor.
 Intersect N. bdy. of tp. 4 lks. W. of cor. of secs. 5, 6,
 31 and 32, established by me and described in book
 "B".

13.77
29.32
40.07

Thence I run
 S. 0° 1' E. on a true line bet. secs. 5 and 6.
 Over rolling and hilly land.
 Wash, 75 lks. wide, 10 ft. deep, course, E.
 Asc. N. slope, 108 ft.
 Set an iron post 3 ft. long, 1 in. in diam., 18 ins. in
 the ground to solid rock in a mound of stone, 3 1/2 ft.
 base, 1 1/2 ft. high, for 1/4 sec. cor. with brass cap mkd.
 1/4 S 6 on W., and
 S 5 on E. half;
 1915 on S. rim.

42.79

Build a mound of stone, 3 1/2 ft. base, 2 1/2 ft. high W. of cor.

52.77

Ridge brs. E. and W.
Desc. S. slope, 167 ft. to

72.07

Wash, 150 lks. wide, 15 ft. deep, course, E.

79.48

Wash, 150 lks. wide, 15 ft. deep, course, E.

80.07

Witness cor. to cor. of secs. 5, 6, 7 and 8 (brs. N. 0° 3' W. from cor. point).

True point for cor. of secs. 5, 6, 7 and 8.
 Land, rolling and hilly.
 Soil, stony and gravelly, 4th rate.
 Timber, scattering scrub palo verde.
 Undergrowth, ocotillos and cacti.
 W.K.K. Apr. 14, 1915.

GENERAL DESCRIPTION

The E. half of this tp lies in the Papago Indian Reservation and is not subdivided. The W. half is in the foot hills and E. slope of the Table Top mountains, and is therefore rough and broken with small hills and deep washes. The W. tier of secs. is worthless for agriculture or grazing. Therefore, is not subdivided. The soil is gravelly with decomposed granite subsoil, covered with malpais, granite, limestone and quartzite stones, except in the extreme S. portion where the soil is sandy and gravelly 2nd and 3rd rates. The only timber, is small scrub palo verde and iron wood. The undergrowth, is greasewood brush, scattering mesquite cat claw, sagebrush, ocotillos and various varieties of cacti. There has been no water developed in this portion of the tp. and none is to be had unless from natural tanks in the rocks, in the main range to the W. Deer were frequently seen in this part of the tp. There are no settlers.

18 FOR CERTIFICATES OF UNITED STATES SURVEYOR. AND
UNITED STATES TRANSITMAN,
See Book "C" of this Group.

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, MAR 19 _____, 1917.

The foregoing field notes of the survey of _____ Partial Subdivision of _____ Township 8 South, Range 3 East, 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 special instructions dated July 29, 1914, for Group 32, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank P. Frost
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.~~